



# The bidi Package

Source documentation for version 38.2

to my Master, *Ferdowsi The Great*

If you want to report any bugs or typos and corrections in the documentation, or ask for any new features, or suggest any improvements, or ask any questions about the package, then please use the issue tracker:

<https://github.com/kvafa/bidi/issues>

In doing so, please always explain your issue well enough, and always include a minimal working example showing the issue.

You may also have conversations, ask questions and post answers without opening issues using the Discussions space:

<https://github.com/kvafa/bidi/discussions>

The announcements for the new releases of the package will also appear in the Discussions space under the Announcements category.

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# The *bidi* Package

## Bidirectional typesetting in plain T<sub>E</sub>X and L<sup>A</sup>T<sub>E</sub>X, using XeT<sub>E</sub>X engine

Source documentation for [version 38.2](#)

Vafa Khalighi\*

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### Contents

1	File <code>amsart-xetex-bidi.def</code>	5	18	File <code>beamerbaseframecomponents-xetex-bidi.def</code>	41
2	File <code>adjmulticol-xetex-bidi.def</code>	7	19	File <code>beamerbaselocalstructure-xetex-bidi.def</code>	49
3	File <code>algorithm2e-xetex-bidi.def</code>	8	20	File <code>beamerbasenavigation-xetex-bidi.def</code>	50
4	File <code>amsbook-xetex-bidi.def</code>	8	21	File <code>beamerbaseoverlay-xetex-bidi.def</code>	51
5	File <code>amsmath-xetex-bidi.def</code>	11	22	File <code>beamerinnerthemedefault-xetex-bidi.def</code>	51
6	File <code>amstext-xetex-bidi.def</code>	11	23	File <code>beamerinnerthemecircles-xetex-bidi.def</code>	54
7	File <code>amsthm-xetex-bidi.def</code>	11	24	File <code>beamerinnerthemefocus-xetex-bidi.def</code>	54
8	File <code>array-xetex-bidi.def</code>	11	25	File <code>beamerinnerthemeinmargin-xetex-bidi.def</code>	55
9	File <code>article-xetex-bidi.def</code>	13	26	File <code>beamerinnerthememetropolis-xetex-bidi.def</code>	57
10	File <code>artikel1-xetex-bidi.def</code>	16	27	File <code>beamerinnerthemerectangles-xetex-bidi.def</code>	60
11	File <code>artikel2-xetex-bidi.def</code>	21	28	File <code>beamerinnerthemerounded-xetex-bidi.def</code>	60
12	File <code>artikel3-xetex-bidi.def</code>	26	29	File <code>beamerouterthemedefault-xetex-bidi.def</code>	60
13	File <code>arydshln-xetex-bidi.def</code>	30	30	File <code>beamerouterthemefocus-xetex-bidi.def</code>	60
14	File <code>beamer-xetex-bidi.def</code>	33	31	File <code>beamerouterthemeinfolines-xetex-bidi.def</code>	62
15	File <code>beamerbaseauxtemplates-xetex-bidi.def</code>	33	32	File <code>beamerouterthememetropolis-xetex-bidi.def</code>	63
16	File <code>beamerbaseboxes-xetex-bidi.def</code>	38	33	File <code>beamerouterthememiniframes-xetex-bidi.def</code>	63
17	File <code>beamerbasecolor-xetex-bidi.def</code>	40	34	File <code>beamerouterthemesidebar-xetex-bidi.def</code>	64

---

\*Thanks to the bidi-tex GitHub organization consisted of David Carlisle and other members of the L<sup>A</sup>T<sub>E</sub>X team to maintain the package in the period 2018–2020.

35	File beamerouterthemesplit-xetex-bidi.def	182	67	File caption-xetex-bidi.def	182
36	File beamerouterthemeshadow-xetex-bidi.def	182	68	File caption3-xetex-bidi.def	182
37	File beamerouterthemesmoothbars-xetex-bidi.def	182	69	File dbltbl-xetex-bidi.def	182
38	File beamerouterthemesmoothtree-xetex-bidi.def	183	70	File combine-xetex-bidi.def	184
39	File beamerouterthemetree-xetex-bidi.def	184	71	File crop-xetex-bidi.def	184
40	File beamerthemeHannover-xetex-bidi.def	186	72	File cutwin-xetex-bidi.def	186
41	File beamerthemeSingapore-xetex-bidi.def	187	73	File cuted-xetex-bidi.def	187
42	File bidi.sty	73	74	File cvthemebidicasual.sty	195
43	File bidi.tex	79	75	File cvthemebidiclassic.sty	197
44	File bidi2in1.sty	81	76	File dblfnote-xetex-bidi.def	199
45	File bidicode.sty	82	77	File diagbox-xetex-bidi.def	202
46	File bidiftnxtra.sty	85	78	File draftwatermark-xetex-bidi.def	204
47	File bidimoderncv.cls	89	79	File eso-pic-xetex-bidi.def	204
48	File bidi-perpage.sty	93	80	File empheq-xetex-bidi.def	206
49	File biditools.sty	95	81	File extarticle-xetex-bidi.def	209
50	File bidituftefloat.sty	132	82	File extbook-xetex-bidi.def	212
51	File bidituftesidenote.sty	142	83	File extletter-xetex-bidi.def	215
52	File bidituftetoc.sty	152	84	File extrafootnotefeatures-xetex-bidi.def	216
53	File bidituftegeneralstructure.sty	155	85	File extreport-xetex-bidi.def	248
54	File bidituftehyperref.sty	157	86	File fancybox-xetex-bidi.def	251
55	File biditufтетitle.sty	158	87	File fancyhdr-xetex-bidi.def	252
56	File biditufte-handout.cls	160	88	File fix2col-xetex-bidi.def	252
57	File biditufte-book.cls	161	89	File fleqn-xetex-bidi.def	254
58	File bidipoem.sty	162	90	File float-xetex-bidi.def	254
59	File boek3-xetex-bidi.def	169	91	File floatrow-xetex-bidi.def	254
60	File boek-xetex-bidi.def	172	92	File flowfram-xetex-bidi.def	255
61	File bookest-xetex-bidi.def	176	93	File footnote-xetex-bidi.def	257
62	File book-xetex-bidi.def	176	94	File footnotebackref-xetex-bidi.def	264
63	File breqn-xetex-bidi.def	180	95	File framed-xetex-bidi.def	265
64	File calcs-xetex-bidi.def	181			



95 File <code>ftnright-xetex-bidi.def</code>	268	125File <code>pgfcorescopes.code-xetex-bidi.def</code>	341
96 File <code>graphicx-xetex-bidi.def</code>	273	126File <code>pgfsys.code-xetex-bidi.def</code>	342
97 File <code>geometry-xetex-bidi.def</code>	275	127File <code>picinpar-xetex-bidi.def</code>	342
98 File <code>hvfloating-xetex-bidi.def</code>	276	128File <code>plain-xetex-bidi.def</code>	344
99 File <code>hyperref-xetex-bidi.def</code>	282	129File <code>pstricks-xetex-bidi.def</code>	346
100File <code>imsproc-xetex-bidi.def</code>	294	130File <code>quotchap-xetex-bidi.def</code>	347
101File <code>leqno-xetex-bidi.def</code>	295	131File <code>ragged2e-xetex-bidi.def</code>	348
102File <code>letter-xetex-bidi.def</code>	296	132File <code>rapport1-xetex-bidi.def</code>	349
103File <code>lettrine-xetex-bidi.def</code>	296	133File <code>rapport3-xetex-bidi.def</code>	354
104File <code>lineno-xetex-bidi.def</code>	299	134File <code>refrep-xetex-bidi.def</code>	359
105File <code>listings-xetex-bidi.def</code>	299	135File <code>report-xetex-bidi.def</code>	363
106File <code>loadingorder-xetex-bidi.def</code>	301	136File <code>rotating-xetex-bidi.def</code>	367
107File <code>longtable-xetex-bidi.def</code>	307	137File <code>scrartcl-xetex-bidi.def</code>	369
108File <code>lscape-xetex-bidi.def</code>	309	138File <code>scrbook-xetex-bidi.def</code>	383
109File <code>mathtools-xetex-bidi.def</code>	310	139File <code>scrreprt-xetex-bidi.def</code>	397
110File <code>mdframed-xetex-bidi.def</code>	310	140File <code>sidecap-xetex-bidi.def</code>	411
111File <code>bidi-media9.sty</code>	311	141File <code>soul-xetex-bidi.def</code>	412
112File <code>memoir-xetex-bidi.def</code>	322	142File <code>stabular-xetex-bidi.def</code>	413
113File <code>midfloat-xetex-bidi.def</code>	325	143File <code>subfigure-xetex-bidi.def</code>	413
114File <code>minitoc-xetex-bidi.def</code>	330	144File <code>tabls-xetex-bidi.def</code>	414
115File <code>multicol-xetex-bidi.def</code>	330	145File <code>tabularx-xetex-bidi.def</code>	414
116File <code>multienum-xetex-bidi.def</code>	335	146File <code>tabulary-xetex-bidi.def</code>	416
117File <code>natbib-xetex-bidi.def</code>	336	147File <code>tc-xetex-bidi.def</code>	416
118File <code>newfloat-xetex-bidi.def</code>	337	148File <code>tcolorbox-xetex-bidi.def</code>	417
119File <code>ntheorem-xetex-bidi.def</code>	337	149File <code>titlesec-xetex-bidi.def</code>	417
120File <code>ntheorem-hyper-xetex-bidi.def</code>	338	150File <code>titletoc-xetex-bidi.def</code>	418
121File <code>overpic-xetex-bidi.def</code>	338	151File <code>tocbibind-xetex-bidi.def</code>	419
122File <code>pdfbase-xetex-bidi.def</code>	339	152File <code>tocloft-xetex-bidi.def</code>	420
123File <code>pdfscape-xetex-bidi.def</code>	340	153File <code>tocbasic-xetex-bidi.def</code>	426
124File <code>pdfpages-xetex-bidi.def</code>	340	154File <code>tocstyle-xetex-bidi.def</code>	440



155	File todonotes-xetex-bidi.def	445	158	File latex-xetex-bidi.def	451
156	File wrapfig-xetex-bidi.def	447	159	File xltextra-xetex-bidi.def	469
157	File xcolor-xetex-bidi.def	449	160	Index	469



## 1 File amsart-xetex-bidi.def

```

1 \ProvidesFile{amsart-xetex-bidi.def}[2017/08/09 v1.1 bidi adaptations for amsart class for X
2 \def\tocline#1#2#3#4#5#6#7{\relax
3   \ifnum #1>\c@tocdepth % then omit
4   \else
5     \par \addpenalty\@secpenalty\addvspace{#2}%
6     \begingroup \hyphenpenalty\@M
7     \@ifempty{#4}{%
8       \@tempdima\csname r@tocindent\number#1\endcsname\relax
9     }{%
10      \@tempdima#4\relax
11    }%
12    \parindent\z@ \if@RTL\righskip\else\leftskip\fi#3\relax \advance\if@RTL\righskip\else\
13    \if@RTL\leftskip\else\righskip\fi\@pnumwidth plus4em \parfillskip-\@pnumwidth
14    #5\leavevmode\hskip-\@tempdima #6\nobreak\relax
15    \hfil\hbox to\@pnumwidth{\@tocpagenum{#7}}\par
16    \nobreak
17  \endgroup
18 \fi}
19 \renewcommand\thesubsection {\thesection\@SepMark\arabic{subsection}}
20 \renewcommand\thesubsubsection {\thesubsection \@SepMark\arabic{subsubsection}}
21 \renewcommand\theparagraph {\thesubsubsection\@SepMark\arabic{paragraph}}
22 \renewcommand\thesubparagraph {\theparagraph\@SepMark\arabic{subparagraph}}
23 \def\part{\@startsection{part}{0}%
24   \z@{\linespacing\@plus\linespacing}{.5\linespacing}%
25   {\normalfont\bfseries\if@RTL\raggedleft\else\raggedright\fi}}
26 \def\right@footnoterule{%
27   \kern-.4\p@
28   \hbox to \columnwidth{\hskip \dimexpr\columnwidth-5pc\relax \hrulefill }
29   \kern11\p@\kern-\footnotesep}
30 \def\left@footnoterule{\kern-.4\p@
31   \hrule\@width 5pc\kern11\p@\kern-\footnotesep}
32
33
34 \long\def\@footnotetext#1{%
35   \insert\footins{%
36     \if@RTL\footnote\@RTLtrue\else\@RTLfalse\fi%
37     \reset@font%
38     \bidi@footnotetext@font% \normalfont\footnotesize
39     \interlinepenalty\interfootnotelinepenalty
40     \splittopskip\footnotesep \splitmaxdepth \dp\strutbox
41     \floatingpenalty\@MM \hsize\columnwidth
42     \@parboxrestore \parindent\normalparindent \sloppy
43     \protected@edef\@currentlabel{%
44       \csname p@footnote\endcsname\@thefnmark}%
45     \@makefnmark%
46     \rule\z@\footnotesep\ignorespaces#1\unskip\strut\par}}
47
48 \long\def\@RTLfootnotetext#1{%
49   \insert\footins{%
50     \@RTLtrue%
51     \reset@font%
52     \bidi@RTLfootnotetext@font% \normalfont\footnotesize

```



```

53 \interlinepenalty\interfootnotelinepenalty
54 \splittopskip\footnotesep \splitmaxdepth \dp\strutbox
55 \floatingpenalty\@MM \hsize\columnwidth
56 \@parboxrestore \parindent\normalparindent \sloppy
57 \protected@edef\@currentlabel{%
58 \csname p@footnote\endcsname\@thefnmark}%
59 \@makefnmark%
60 \rule{z@\footnotesep\ignorespaces#1\unskip\strut\par}}
61
62
63
64 \long\def\@LTRfootnotetext#1{%
65 \insert\footins{%
66 \@RTLfalse%
67 \reset@font%
68 \bidi\@LTRfootnotetext@font% \normalfont\footnotesize
69 \interlinepenalty\interfootnotelinepenalty
70 \splittopskip\footnotesep \splitmaxdepth \dp\strutbox
71 \floatingpenalty\@MM \hsize\columnwidth
72 \@parboxrestore \parindent\normalparindent \sloppy
73 \protected@edef\@currentlabel{%
74 \csname p@footnote\endcsname\@thefnmark}%
75 \@makefnmark%
76 \rule{z@\footnotesep\ignorespaces#1\unskip\strut\par}}}
77
78
79 \footdir@temp\footdir@ORG@bidi@amsart@footnotetext\@footnotetext{\bidi@footdir@footnote}%
80 \footdir@temp\footdir@ORG@bidi@amsart@RTLfootnotetext\@RTLfootnotetext{R}%
81 \footdir@temp\footdir@ORG@bidi@amsart@LTRfootnotetext\@LTRfootnotetext{L}%
82
83 \renewenvironment{thebibliography}[1]{%
84 \@bibtitlestyle
85 \normalfont\bibliofont\labelsep .5em\relax
86 \renewcommand\theenumiv{\arabic{enumiv}}\let\p@enumiv\@empty
87 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
88 \bidi\@thebibliography@font@hook%
89 \list{\@biblabel{\theenumiv}}{\settowidth\labelwidth{\@biblabel{#1}}%
90 \leftmargin\labelwidth \advance\leftmargin\labelsep
91 \usecounter{enumiv}}%
92 \sloppy \clubpenalty\@M \widowpenalty\clubpenalty
93 \sfcode`\.=\@m
94 }{%
95 \def\@noitemerr{\@latex@warning{Empty `thebibliography' environment}}%
96 \endlist
97 }
98 \def\theindex{\@restonecoltrue\if@twocolumn\@restonecolfalse\fi
99 \columnseprule{z@ \columnsep 35\p@
100 \@indextitlestyle
101 \thispagestyle{plain}%
102 \let\item\@idxitem
103 \parindent\z@ \parskip\z@\@plus.3\p@\relax
104 \if@RTL\raggedleft\else\raggedright\fi
105 \hyphenpenalty\@M
106 \footnotesize}

```



```

107 \def\@idxitem{\par\hangindent \if@RTL-\fi2em}
108 \def\subitem{\par\hangindent \if@RTL-\fi2em\hspace*{1em}}
109 \def\subsubitem{\par\hangindent \if@RTL-\fi3em\hspace*{2em}}
110 \def\maketitle{\par
111   \@topnum\z@ % this prevents figures from falling at the top of page 1
112   \@setcopyright
113   \thispagestyle{firstpage}% this sets first page specifications
114   \uppercase\nonmath\shorttitle
115   \ifx\@empty\shortauthors \let\shortauthors\shorttitle
116   \else \andify\shortauthors
117   \fi
118   \@maketitle@hook
119   \begingroup
120   \@maketitle
121   \toks@{\exp{\shortauthors}\@temptokena\exp{\shorttitle}}%
122   \toks4{\def\{\ \ignorespaces}}% defend against questionable usage
123   \edef\@tempa{%
124     \@nx\markboth{\the\toks4
125       \@nx\MakeUppercase{\the\toks@}}{\the\@temptokena}}%
126   \@tempa
127   \endgroup
128   \c@footnote\z@
129   \cleartopmattertags
130 }

```

## 2 File adjmulticol-xetex-bidi.def

```

131 \ProvidesFile{adjmulticol-xetex-bidi.def}[2015/04/25 v0.1 bidi adaptations for adjmulticol p
132 \def\adjmulticols#1#2#3{\col@number#1\relax
133   \def\@tempa{#2}%
134   \ifx\@tempa\@empty\adjmc@inner\z@\else\adjmc@inner#2\fi
135   \def\@tempa{#3}%
136   \ifx\@tempa\@empty\adjmc@outer\z@\else\adjmc@outer#3\fi
137   \ifnum\col@number<\@ne
138     \PackageWarning{adjmulticol}%
139       {Using '\number\col@number'
140        columns doesn't seem a good idea.^^J
141        I therefore use one columns instead}%
142     \col@number\@ne\fi
143   \ifnum\col@number>10
144     \PackageError{adjmulticol}%
145       {Too many columns}%
146       {Current implementation doesn't
147        support more than 10 columns.%
148       \MessageBreak
149        I therefore use 10 columns instead}%
150     \col@number10 \fi
151   \ifx\@footnotetext\mult@footnotetext\else
152     \let\orig@footnotetext\@footnotetext
153     \let\@footnotetext\mult@footnotetext
154   \fi
155   \ifx\@LTRfootnotetext\mult@LTRfootnotetext\else
156     \let\orig@LTRfootnotetext\@LTRfootnotetext
157     \let\@LTRfootnotetext\mult@LTRfootnotetext

```



```

158 \fi
159 \ifx\@RTLfootnotetext\mult@RTLfootnotetext\else
160 \let\orig@RTLfootnotetext\@RTLfootnotetext
161 \let\@RTLfootnotetext\mult@RTLfootnotetext
162 \fi
163 \@ifnextchar[\adjmult@cols{\adjmult@cols[]}}
164 \let\adjmc@page@sofar@orig=\page@sofar

```

### 3 File algorithm2e-xetex-bidi.def

```

165 \ProvidesFile{algorithm2e-xetex-bidi.def}[2018/09/23 v0.2 bidi adaptations for algorithm2e p
166 \expandafter\ifx\c@name algocf@within\endcsname\relax% if \algocf@within doesn't exist
167 \else%
168 \renewcommand\thealgocf{\c@name the\algocf@within\endcsname\@SepMark\@arabic\c@algocf}%
169 \fi
170 \@ifpackageloaded{color}{\relax}{%
171 \bidi@patchcmd{\@algocf@start}{\bgroup}{\relax}{%
172 \bgroup
173 \if@RTL
174 \beginR
175 \else
176 \beginL
177 \fi
178 }{}{}
179 \bidi@patchcmd{\@algocf@finish}{\egroup\end{lrbox}}{\relax}{%
180 \if@RTL
181 \endR
182 \else
183 \endL
184 \fi
185 \egroup
186 \end{lrbox}}%
187 }{}{}
188 \bidi@patchcmd{\algocf@makecaption}{\hbox}{\relax}{%
189 \if@RTL
190 \hboxR
191 \else
192 \hboxL
193 \fi
194 }{}{}
195 }

```

### 4 File amsbook-xetex-bidi.def

```

196 \ProvidesFile{amsbook-xetex-bidi.def}[2017/08/09 v1.2 bidi adaptations for amsbook class for
197 \def\@tocline#1#2#3#4#5#6#7{\relax
198 \ifnum #1>\c@tocdepth % then omit
199 \else
200 \par \addpenalty\@secpenalty\addvspace{#2}%
201 \begingroup \hyphenpenalty\@M
202 \@ifempty{#4}{\relax}{%
203 \@tempdima\c@name r@tocindent\number#1\endcsname\relax
204 }{}%
205 \@tempdima#4\relax

```



```

206    }%
207    \parindent\z@ \if@RTL\righskip\else\leftskip\fi#3\relax \advance\if@RTL\righskip\else\
208    \if@RTL\leftskip\else\righskip\fi\@pnumwidth plus4em \parfillskip-\@pnumwidth
209    #5\leavevmode\hskip-\@tempdima #6\nobreak\relax
210    \hfil\hbox to\@pnumwidth{\@tocpagenum{#7}}\par
211    \nobreak
212    \endgroup
213    \fi}
214 \renewcommand\thesubsection {\thesection\@SepMark\arabic{subsection}}
215 \renewcommand\thesubsubsection {\thesubsection \@SepMark\arabic{subsubsection}}
216 \renewcommand\theparagraph {\thesubsubsection\@SepMark\arabic{paragraph}}
217 \renewcommand\thesubparagraph {\theparagraph\@SepMark\arabic{subparagraph}}
218 \def\theindex{\@restonecoltrue\if@twocolumn\@restonecolfalse\fi
219 \columnseprule\z@ \columnsep 35\p@
220 \@indextitlestyle
221 \thispagestyle{plain}%
222 \let\item\@idxitem
223 \parindent\z@ \parskip\z@\@plus.3\p@\relax
224 \if@RTL\raggedleft\else\raggedright\fi
225 \hyphenpenalty\@M
226 \footnotesize}
227 \def\@idxitem{\par\hangindent \if@RTL-\fi2em}
228 \def\subitem{\par\hangindent \if@RTL-\fi2em\hspace*{1em}}
229 \def\subsubitem{\par\hangindent \if@RTL-\fi3em\hspace*{2em}}
230 \def\right@footnoterule{%
231 \kern-.4\p@
232 \hbox to \columnwidth{\hskip \dimexpr\columnwidth-5pc\relax \hrulefill }
233 \kern11\p@\kern-\footnotesep}
234 \def\left@footnoterule{\kern-.4\p@
235 \hrule\@width 5pc\kern11\p@\kern-\footnotesep}
236
237 \long\def\@footnotetext#1{%
238 \insert\footins{%
239 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
240 \reset@font%
241 \bidi@footnotetext@font% \normalfont\footnotesize
242 \interlinepenalty\interfootnotelinepenalty
243 \splittopskip\footnotesep \splitmaxdepth \dp\strutbox
244 \floatingpenalty\@MM \hsize\columnwidth
245 \@parboxrestore \parindent\normalparindent \sloppy
246 \protected@edef\@currentlabel{%
247 \csname p@footnote\endcsname\@thefnmark}%
248 \@makefntext{%
249 \rule\z@\footnotesep\ignorespaces#1\unskip\strut\par}}
250
251 \long\def\@RTLfootnotetext#1{%
252 \insert\footins{%
253 \@RTLtrue%
254 \reset@font%
255 \bidi@RTLfootnotetext@font% \normalfont\footnotesize
256 \interlinepenalty\interfootnotelinepenalty
257 \splittopskip\footnotesep \splitmaxdepth \dp\strutbox
258 \floatingpenalty\@MM \hsize\columnwidth
259 \@parboxrestore \parindent\normalparindent \sloppy

```



```

260 \protected@edef\@currentlabel{%
261 \csname p@footnote\endcsname\@thefnmark}%
262 \@makefnfntext{%
263 \rule\z@\footnotesep\ignorespaces#1\unskip\strut\par}}
264
265
266 \long\def\@LTRfootnotetext#1{%
267 \insert\footins{%
268 \RTLfalse%
269 \reset@font%
270 \bidi@L@LTRfootnotetext@font% \normalfont\footnotesize
271 \interlinepenalty\interfootnotelinepenalty
272 \splittopskip\footnotesep \splitmaxdepth \dp\strutbox
273 \floatingpenalty\@MM \hsize\columnwidth
274 \@parboxrestore \parindent\normalparindent \sloppy
275 \protected@edef\@currentlabel{%
276 \csname p@footnote\endcsname\@thefnmark}%
277 \@makefnfntext{%
278 \rule\z@\footnotesep\ignorespaces#1\unskip\strut\par}}}
279
280
281
282 \footdir@temp\footdir@ORG@bidi@amsbook@footnotetext\@footnotetext{\bidi@footdir@footnote}%
283 \footdir@temp\footdir@ORG@bidi@amsbook@RTLfootnotetext\@RTLfootnotetext{R}%
284 \footdir@temp\footdir@ORG@bidi@amsbook@LTRfootnotetext\@LTRfootnotetext{L}%
285
286 \renewenvironment{thebibliography}[1]{%
287 \@bibtitlestyle
288 \normalfont\bibliofont\labelsep .5em\relax
289 \renewcommand\theenumiv{\arabic{enumiv}}\let\p@enumiv\@empty
290 \ifRTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
291 \bidi@thebibliography@font@hook%
292 \list{\@biblabel{\theenumiv}}{\settowidth\labelwidth{\@biblabel{#1}}%
293 \leftmargin\labelwidth \advance\leftmargin\labelsep
294 \usecounter{enumiv}}%
295 \sloppy \clubpenalty\@M \widowpenalty\clubpenalty
296 \sfcode`\.\@m
297 }{%
298 \def\@noitemerr{\@latex@warning{Empty `thebibliography' environment}}%
299 \endlist
300 }
301 \def\@makechapterhead#1{\global\topskip 7.5pc\relax
302 \begingroup
303 \fontsize{\@xivpt}{18}\bfseries\centering
304 \ifnum\c@secnumdepth>\m@ne
305 \leavevmode \hskip-\ifRTL\rightskip\else\leftskip\fi
306 \rlap{\vbox to\z@{\vss
307 \centerline{\normalsize\mdseries
308 \uppercase\@xp{\chaptername}\enspace\thechapter}
309 \vskip 3pc}}\hskip\ifRTL\rightskip\else\leftskip\fi\fi
310 #1\par \endgroup
311 \skip@34\p@ \advance\skip@-\normalbaselineskip
312 \vskip\skip@ }
313 \def\maketitle{\par

```



```

314 \@topnum\z@ % this prevents figures from falling at the top of page 1
315 \begingroup
316 \@maketitle
317 \endgroup
318 \c@footnote\z@
319 \def\do##1{\let##1\relax}%
320 \do\maketitle \do\@maketitle \do\title \do\@xtitle \do\@title
321 \do\author \do\@xauthor \do\address \do\@xaddress
322 \do\email \do\@xemail \do\curraddr \do\@xcurraddr
323 \do\dedicatory \do\@dedicatory \do\thanks \do\thankses
324 \do\keywords \do\@keywords \do\subjclass \do\@subjclass
325 }

```

## 5 File amsmath-xetex-bidi.def

```

326 \ProvidesFile{amsmath-xetex-bidi.def}[2020/05/16 v1.2 bidi adaptations for amsmath package f
327 \let\veqno=\eqno
328 \iftagsleft@ \let\veqno=\leqno \fi
329 \renewcommand{\numberwithin}[3][\arabic]{%
330   \ifundefined{c@#2}{\@nocounterr{#2}}{%
331     \ifundefined{c@#3}{\@nocnterr{#3}}{%
332       \@addtoreset{#2}{#3}%
333       \@xp\xdef\csname the#2\endcsname{%
334         \@xp\@nx\csname the#3\endcsname \@nx\@SepMark\@nx#1{#2}}}%
335   }
336 \def\tagform@#1{\maketag@@@{\if@nonlatin\beginR\fi(\kern\z@\ignorespaces#1\unskip\@italicco
337
338 \bidi@patchcmd\math@cr@@@align\place@tag{%
339   \place@tag
340   \else
341     \place@tag
342 }{}{}
343

```

## 6 File amstext-xetex-bidi.def

```

344 \ProvidesFile{amstext-xetex-bidi.def}[2016/09/12 v0.2 bidi adaptations for amstext package f
345 \def\textdef@#1#2#3{\hbox{%
346   \everymath{#1}%
347   \let\fontsize#2\selectfont
348   \if@nonlatin\beginR\fi#3\if@nonlatin\endR\fi}}

```

## 7 File amsthm-xetex-bidi.def

```

349 \ProvidesFile{amsthm-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for amsthm package for
350 \def\@thmcountersep{\@SepMark}

```

## 8 File array-xetex-bidi.def

```

351 \ProvidesFile{array-xetex-bidi.def}[2015/11/07 v0.3 bidi adaptations for array package for X
352 \def\@testpach{\@chclass
353   \ifnum \@lastchclass=6 \@ne \@chnum \@ne \else
354   \ifnum \@lastchclass=7 5 \else
355   \ifnum \@lastchclass=8 \tw@ \else

```



```

356 \ifnum \@lastchclass=9 \thr@@
357 \else \z@
358 \ifnum \@lastchclass = 10 \else
359 \edef\@nextchar{\expandafter\string\@nextchar}%
360 \@chnum
361 \if \@nextchar c\z@ \else
362 \if \@nextchar \if@RTLtab r\else l\fi\@ne \else
363 \if \@nextchar \if@RTLtab l\else r\fi\tw@ \else
364 \z@ \@chclass
365 \if\@nextchar |\@ne \else
366 \if \@nextchar !6 \else
367 \if \@nextchar @7 \else
368 \if \@nextchar <8 \else
369 \if \@nextchar >9 \else
370 10
371 \@chnum
372 \if \@nextchar m\thr@@\else
373 \if \@nextchar p4 \else
374 \if \@nextchar b5 \else
375 \z@ \@chclass \z@ \@preamerr \z@ \fi \fi \fi \fi
376 \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi
377 \def\@tabular{%
378 \leavevmode
379 \hbox \bgroup\if@RTLtab\beginR \fi $\col@sep\tabcolsep \let\d@llarbegin\beginR
380 \let\d@llarend\endR\endgroup
381 \@tabarray}
382 \def\endtabular{\endarray $\if@RTLtab\endR\fi\egroup}
383 \expandafter\let\csname endtabular*\endcsname=\endtabular
384 \def\@array[#1]#2{%
385 \@tempdima \ht \strutbox
386 \advance \@tempdima by\extrarowheight
387 \setbox \@arstrutbox \hbox{\vrule
388 \@height \arraystretch \@tempdima
389 \@depth \arraystretch \dp \strutbox
390 \@width \z@}%
391 \beginR
392 \mkpream{#2}%
393 \xdef\@preamble{\noexpand \ialign \@halignto
394 \bgroup \@arstrut \@preamble
395 \tabskip \z@ \cr}%
396 \endgroup
397 \@arrayleft
398 \if #1t\vtop \else \if#1b\vbox \else \vcenter \fi \fi
399 \bgroup
400 \let \@sharp ##\let \protect \relax
401 \lineskip \z@
402 \baselineskip \z@
403 \m@th
404 \let\\\@arraycr \let\tabularnewline\\\let\par\@empty \if@RTLtab\hbox\bgroup\beginR\@hboxR
405 \def\@tabarray{\@ifnextchar{\@array}{\@array[c]}}
406 \def\endarray{\cr\egroup\if@RTLtab\egroup\endR\egroup\fi \egroup \@arrayright \gdef\@preamble
407 \def\array{\col@sep\arraycolsep
408 \def\d@llarbegin{$}\let\d@llarend\d@llarbegin\gdef\@halignto{}}
409 \@RTLtabfalse\@tabarray}

```



## 9 File article-xetex-bidi.def

```

410 \ProvidesFile{article-xetex-bidi.def}[2017/06/09 v0.6 bidi adaptations for standard article]
411 \if@titlepage
412   \renewcommand\maketitle{\begin{titlepage}%
413     \let\footnotesize\small
414     \let\right@footnoterule\relax
415     \let\left@footnoterule\relax
416     \let\textwidth@footnoterule\relax
417     \let\footnote\thanks
418     \let\LTRfootnote\LTRthanks
419     \let\RTLfootnote\RTLthanks
420     \null\vfil
421     \vskip 60\p@
422     \begin{center}%
423       {\LARGE \@title \par}%
424       \vskip 3em%
425       {\large
426         \lineskip .75em%
427         \begin{tabular}[t]{c}%
428           \@author
429         \end{tabular}\par}%
430       \vskip 1.5em%
431       {\large \@date \par}%           % Set date in \large size.
432     \end{center}\par
433     \@thanks
434     \vfil\null
435   \end{titlepage}%
436   \setcounter{footnote}{0}%
437   \global\let\thanks\relax
438   \global\let\LTRthanks\relax
439   \global\let\RTLthanks\relax
440   \global\let\maketitle\relax
441   \global\let\@thanks\@empty
442   \global\let\@author\@empty
443   \global\let\@date\@empty
444   \global\let\@title\@empty
445   \global\let\title\relax
446   \global\let\author\relax
447   \global\let\date\relax
448   \global\let\and\relax
449 }
450 \else
451 \renewcommand\maketitle{\par
452   \begingroup
453     \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
454     \def\@makefnmark{\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
455     \long\def\@makefntext##1{\parindent 1em\noindent
456       \hb@xt@1.8em{%
457         \hss\@textsuperscript{\normalfont\@thefnmark}}##1}%
458     \if@twocolumn
459       \ifnum \col@number=\@ne
460         \@maketitle
461       \else

```



```

462     \twocolumn[\@maketitle]%
463     \fi
464     \else
465     \newpage
466     \global\@topnum\z@    % Prevents figures from going at top of page.
467     \@maketitle
468     \fi
469     \thispagestyle{plain}\@thanks
470 \endgroup
471 \setcounter{footnote}{0}%
472 \global\let\thanks\relax
473 \global\let\LTRthanks\relax
474 \global\let\RTLthanks\relax
475 \global\let\maketitle\relax
476 \global\let\@maketitle\relax
477 \global\let\@thanks\@empty
478 \global\let\@author\@empty
479 \global\let\@date\@empty
480 \global\let\@title\@empty
481 \global\let\title\relax
482 \global\let\author\relax
483 \global\let\date\relax
484 \global\let\and\relax
485 }
486 \def\@maketitle{%
487   \newpage
488   \null
489   \vskip 2em%
490   \begin{center}%
491     \let \footnote \thanks
492     \let \LTRfootnote \LTRthanks
493     \let \RTLfootnote \RTLthanks
494     {\LARGE \@title \par}%
495     \vskip 1.5em%
496     {\large
497       \lineskip .5em%
498       \begin{tabular}[t]{c}%
499         \@author
500       \end{tabular}\par}%
501     \vskip 1em%
502     {\large \@date}%
503   \end{center}%
504   \par
505   \vskip 1.5em}
506 \fi
507 \renewcommand*\l@part[2]{%
508   \ifnum \c@tocdepth >-2\relax
509     \addpenalty\@secpenalty
510     \addvspace{2.25em \@plus\p@}%
511     \setlength\@tempdima{3em}%
512     \begingroup
513       \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
514       \parfillskip -\@pnumwidth
515       {\leavevmode

```



```

516      \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
517      \nobreak
518      \if@compatibility
519        \global\@nobreaktrue
520        \everypar{\global\@nobreakfalse\everypar{}}%
521      \fi
522    \endgroup
523  \fi}
524 \renewcommand*\l@section[2]{%
525   \ifnum \c@tocdepth >\z@
526     \addpenalty\@secpenalty
527     \addvspace{1.0em \@plus\p@}%
528     \setlength\@tempdima{1.5em}%
529     \begingroup
530       \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
531       \parfillskip -\@pnumwidth
532       \leavevmode \bfseries
533       \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
534       \hskip -\if@RTL\rightskip\else\leftskip\fi
535       #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
536     \endgroup
537   \fi}
538 \renewcommand\left@footnoterule{%
539   \kern-3\p@
540   \hrule\@width.4\columnwidth
541   \kern2.6\p@}
542 \renewcommand\right@footnoterule{%
543   \kern-3\p@
544   \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
545   \kern2.6\p@}
546 \renewcommand\thesubsection {\thesection\@SepMark\@arabic\c@subsection}
547 \renewcommand\thesubsubsection{\thesubsection\@SepMark\@arabic\c@subsubsection}
548 \renewcommand\theparagraph {\thesubsubsection\@SepMark\@arabic\c@paragraph}
549 \renewcommand\thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}
550 \def\@part[#1]#2{%
551   \ifnum \c@secnumdepth >\m@ne
552     \refstepcounter{part}%
553     \addcontentsline{toc}{part}{\thepart\hspace{1em}#1}%
554   \else
555     \addcontentsline{toc}{part}{#1}%
556   \fi
557   {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi
558    \interlinepenalty \@M
559    \normalfont
560    \ifnum \c@secnumdepth >\m@ne
561      \Large\bfseries \partname\nobreakspace\thepart
562      \par\nobreak
563    \fi
564    \huge \bfseries #2%
565    \markboth{}{}\par}%
566   \nobreak
567   \vskip 3ex
568   \@afterheading}
569 \renewenvironment{thebibliography}[1]

```



```

570 {\section*{\refname}%
571 \mkboth{\MakeUppercase\refname}{\MakeUppercase\refname}%
572 \ifRTL\ifLTRbibitems\RTLfalse\else\fi\else\ifRTLbibitems\RTLtrue\else\fi\fi
573 \bidi@thebibliography@font@hook%
574 \list{\@biblabel{\@arabic\c@enumiv}}%
575 {\settowidth\labelwidth{\@biblabel{#1}}%
576 \leftmargin\labelwidth
577 \advance\leftmargin\labelsep
578 \openbib@code
579 \usecounter{enumiv}%
580 \let\p@enumiv\@empty
581 \renewcommand\theenumiv{\@arabic\c@enumiv}}%
582 \sloppy
583 \clubpenalty4000
584 \@clubpenalty \clubpenalty
585 \widowpenalty4000%
586 \sfcode\~.\@m}
587 {\def\@noitemerr
588 {\@latex@warning{Empty `thebibliography' environment}}}%
589 \endlist}
590 \renewenvironment{theindex}
591 {\if@twocolumn
592 \restonecolfalse
593 \else
594 \restonecoltrue
595 \fi
596 \columnseprule \z@
597 \columnsep 35\p@
598 \twocolumn[\section*{\indexname}]%
599 \mkboth{\MakeUppercase\indexname}%
600 {\MakeUppercase\indexname}%
601 \thispagestyle{plain}\parindent\z@
602 \parskip\z@ \@plus .3\p@\relax
603 \let\item\@idxitem}
604 {\if@restonecol\onecolumn\else\clearpage\fi}

```

## 10 File artikel1-xetex-bidi.def

```

605 \ProvidesFile{artikel1-xetex-bidi.def}[2017/06/09 v0.4 bidi adaptations for artikel1 class f
606 \renewenvironment{theindex}{%
607 \if@twocolumn
608 \restonecolfalse
609 \else
610 \restonecoltrue
611 \fi
612 \columnseprule \z@
613 \columnsep 35\p@
614 \twocolumn[\section*{\indexname}]%
615 \mkboth{\MakeUppercase{\indexname}}{\MakeUppercase{\indexname}}%
616 \thispagestyle{plain}\parindent\z@
617 \parskip\z@ \@plus .3\p@\relax
618 \let\item\@idxitem
619 }{%
620 \if@restonecol\onecolumn\else\clearpage\fi}

```



```

621 \renewcommand*\head@style{%
622     \interlinepenalty \@M
623     \hyphenpenalty=\@M \exhyphenpenalty=\@M
624     \if@RTL\leftskip\else\rightskip\fi=0cm plus .7\hsize\relax}
625 \if@titlepage
626     \renewenvironment{abstract}{%
627         \titlepage
628         \null\vfil
629         \section*{\SectFont\abstractname}
630         \noindent\ignorespaces}
631     {\par\vfil\null\endtitlepage}
632 \else
633     \renewenvironment{abstract}{%
634         \if@twocolumn
635             \section*{\abstractname}%
636         \else
637             \bgroup\if@RTL\leftskip\else\rightskip\fi=\unitindent
638             \section*{\small\SectFont\abstractname}%
639             \noindent\ignorespaces
640             \fi}
641     {\if@twocolumn\else\par\egroup\fi}
642 \fi
643 \renewcommand*\@regtocline[3]{%
644     \ifnum #1>\c@tocdepth
645     \else
646         \vskip\z@\@plus.2\p@
647         {\hangindent\z@ \@afterindenttrue \interlinepenalty\@M
648         \if@RTL\rightskip\else\leftskip\fi\unitindent
649         \if@RTL\leftskip\else\rightskip\fi\unitindent\@plus 1fil
650         \parfillskip\z@
651         \@tempdima\unitindent
652         \parindent\z@
653         \leavevmode
654         \hbox{} \hskip -\if@RTL\rightskip\else\leftskip\fi\relax#2\nobreak
655         \hskip 1em \nobreak{\slshape #3}\par
656         }%
657     \fi}
658 \if@oldtoc
659 \renewcommand*\l@part[2]{%
660     \ifnum \c@tocdepth >-2\relax
661         \addpenalty\@secpenalty
662         \addvspace{2.25em \@plus\p@}%
663         \begingroup
664             \setlength\@tempdima{3em}%
665             \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
666             \parfillskip -\@pnumwidth
667             {\leavevmode
668                 \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
669                 \nobreak
670                 \if@compatibility
671                     \global\@nobreaktrue
672                     \everypar{\global\@nobreakfalse\everypar{}}%
673             \fi
674         \endgroup

```



```

675 \fi}
676 \else
677 \renewcommand*\l@part{%
678 \ifnum \c@tocdepth >-2\relax
679 \addpenalty\@secpenalty
680 \addvspace{2.25em \@plus \p@}%
681 \@regtocline{0}%
682 \fi}
683 \fi
684 \if@oldtoc
685 \renewcommand*\l@section[2]{%
686 \addpenalty\@secpenalty
687 \addvspace{1.0em \@plus \p@}%
688 \setlength\@tempdima{1.5em}%
689 \begin{group}
690 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
691 \parfillskip -\@pnumwidth
692 \leavevmode \bfseries
693 \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
694 \hskip -\if@RTL\rightskip\else\leftskip\fi
695 #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
696 \endgroup}
697 \else
698 \renewcommand*\l@section{\@regtocline{1}}
699 \fi
700 \renewcommand*\thesubsection{\thesection\@SepMark\@arabic\c@subsection}
701 \renewcommand*\thesubsubsection{\thesubsection\@SepMark\@arabic\c@subsubsection}
702 \renewcommand*\theparagraph{\thesubsubsection\@SepMark\@arabic\c@paragraph}
703 \renewcommand*\thesubparagraph{\theparagraph\@SepMark\@arabic\c@subparagraph}
704 \renewenvironment{thebibliography}[1]
705 {\section*\refname}%
706 \@mkboth{\MakeUppercase\refname}{\MakeUppercase\refname}%
707 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
708 \bidi\@thebibliography@font@hook%
709 \list{\@biblabel{\@arabic\c@enumiv}}%
710 {\settowidth\labelwidth{\@biblabel{#1}}%
711 \leftmargin\labelwidth
712 \advance\leftmargin\labelsep
713 \@openbib@code
714 \usecounter{enumiv}%
715 \let\p@enumiv\@empty
716 \renewcommand*\theenumiv{\@arabic\c@enumiv}}%
717 \sloppy\clubpenalty4000\widowpenalty4000%
718 \sfcode`. \@m}
719 {\def\@noitemerr
720 {\@latex@warning{Empty `thebibliography' environment}}}%
721 \endlist}
722 \renewcommand*\left@footnoterule{%
723 \kern-3\p@
724 \kern.5\baselineskip
725 \hrule\@width\unitindent
726 \kern.4\baselineskip
727 }
728 \renewcommand*\right@footnoterule{%

```



```

729 \kern-3\p@
730 \kern.5\baselineskip
731 \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\unitindent\relax \hrulefill }
732 \kern.4\baselineskip}
733 \if@titlepage
734 \renewcommand*{\TitleFont{\rmfamily}
735 \renewcommand*{\maketitle{%
736 \begin{titlepage}%
737 \let\footnotesize\small
738 \let\right@footnoterule\relax
739 \let\left@footnoterule\relax
740 \let\textwidth@footnoterule\relax
741 \let \footnote \thanks
742 \long\def\@makefntext##1{\parindent\z@
743 \def\labelitemi{\textendash}\@revlabeltrue
744 \leavevmode\@textsuperscript{\@thefnmark}\kern1em\relax ##1}
745 \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
746 \if@compatibility\setcounter{page}{0}\fi
747 \null\vfil
748 \vskip 60\p@
749 \begin{center}%
750 \TitleFont
751 {\LARGE \def\{\{\penalty -\@M}
752 \if@allcaps
753 \expandafter\uc@nothanks\@title\thanks\relax
754 \else
755 \@title
756 \fi\par}%
757 \vskip 3em%
758 {\large
759 \lineskip .75em \parindent\z@
760 \begin{tabular}[t]{c}%
761 \if@allcaps
762 \expandafter\uc@authornothanks\@author\and\relax
763 \else
764 \@author
765 \fi
766 \end{tabular}\par}%
767 \vskip 1.5em%
768 {\large
769 \if@allcaps
770 \uppercase\expandafter{\@date}%
771 \else
772 \@date
773 \fi\par}%
774 \end{center}\par
775 \@thanks
776 \vfil\null
777 \end{titlepage}%
778 \setcounter{footnote}{0}%
779 \global\let\thanks\relax
780 \global\let\maketitle\relax
781 \global\let\@thanks\@empty
782 \global\let\@author\@empty

```



```

783 \global\let\@title\@empty
784 \global\let\@date\@empty
785 \global\let\title\relax
786 \global\let\author\relax
787 \global\let\date\relax
788 \global\let\and\relax
789 }
790 \def\uc@nothanks#1\thanks{\uppercase{#1}\futurelet\@tempa\uc@tx}
791 \def\uc@authornothanks#1\and{\uc@nothanks#1\thanks\relax
792 \futurelet\@tempa\uc@ax}
793 \def\uc@ax{%
794 \ifx\@tempa\relax
795 \else
796 \\\andname \\\expandafter\uc@authornothanks
797 \fi}
798 \def\uc@tx{\ifx\@tempa\relax
799 \else \expandafter\uc@ty \fi}
800 \def\uc@ty#1{\thanks{#1}\uc@nothanks}
801 \else
802 \renewcommand*\maketitle{\par
803 \begingroup
804 \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
805 \def\@makefnmark{\rlap{%
806 \@textsuperscript{\normalfont\@thefnmark}}}%
807 \long\def\@makefntext{\@xmakefntext{%
808 \@textsuperscript{\normalfont\@thefnmark}}}%
809 \iftwocolumn
810 \ifnum \col@number=\@ne
811 \@maketitle
812 \else
813 \twocolumn[\@maketitle]%
814 \fi
815 \else
816 \newpage
817 \global\@topnum\z@
818 \@maketitle
819 \fi
820 \thispagestyle{plain}\@thanks
821 \endgroup
822 \setcounter{footnote}{0}%
823 \global\let\thanks\relax
824 \global\let\maketitle\relax
825 \global\let\@maketitle\relax
826 \global\let\@thanks\@empty
827 \global\let\@author\@empty
828 \global\let\@title\@empty
829 \global\let\@date\@empty
830 \global\let\title\relax
831 \global\let\author\relax
832 \global\let\date\relax
833 \global\let\and\relax
834 }
835 \def\@maketitle{%
836 \newpage

```



```

837 \null
838 \vskip 2em%
839 \begin{center}%
840   \let \footnote \thanks
841   {\LARGE \TitleFont \@title \par}%
842   \vskip 1.5em%
843   {\large \TitleFont
844     \lineskip .5em%
845     \begin{tabular}[t]{c}%
846       \@author
847     \end{tabular}\par}%
848   \vskip 1em%
849   {\large \TitleFont \@date}%
850 \end{center}%
851 \par
852 \vskip 1.5em}
853 \fi

```

## 11 File artikel2-xetex-bidi.def

```

854 \ProvidesFile{artikel2-xetex-bidi.def}[2017/06/09 v0.4 bidi adaptations for artikel2 class f
855 \renewenvironment{theindex}{%
856   \if@twocolumn
857     \@restonecolfalse
858   \else
859     \@restonecoltrue
860   \fi
861   \columnseprule \z@
862   \columnsep 35\p@
863   \twocolumn[\section*{\indexname}]%
864   \@mkboth{\MakeUppercase{\indexname}}{\MakeUppercase{\indexname}}%
865   \thispagestyle{plain}\parindent\z@
866   \parskip\z@ \@plus .3\p@\relax
867   \let\item\@idxitem
868 }{%
869   \if@restonecol\onecolumn\else\clearpage\fi}
870 \renewcommand*{\@regtocline}[3]{%
871   \ifnum #1>\c@tocdepth
872   \else
873     \vskip\z@ \@plus.2\p@
874     {\hangindent\z@ \@afterindenttrue \interlinepenalty\@M
875       \if@RTL\righskip\else\leftskip\fi\unitindent
876       \if@RTL\leftskip\else\righskip\fi\unitindent\@plus 1fil
877       \parfillskip\z@
878       \@tempdima\unitindent
879       \advance\@tempdima by \othermargin
880       \parindent\z@
881       \leavevmode
882       \hbox{\hskip -\if@RTL\righskip\else\leftskip\fi\relax#2\nobreak
883         \hskip 1em \nobreak{\slshape #3}\par
884       }%
885   \fi}
886 \if@oldtoc
887 \renewcommand*\l@section[2]{%

```



```

888 \addpenalty\@secpenalty
889 \addvspace{1.0em \@plus\p@}%
890 \setlength\@tempdima{1.5em}%
891 \begingroup
892 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
893 \parfillskip -\@pnumwidth
894 \leavevmode \bfseries
895 \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
896 \hskip -\if@RTL\rightskip\else\leftskip\fi
897 #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
898 \endgroup}
899 \else
900 \renewcommand*\l@section{\@regtocline{1}}
901 \fi
902 \if@oldtoc
903 \renewcommand*\l@part[2]{%
904 \ifnum \c@tocdepth >-2\relax
905 \addpenalty\@secpenalty
906 \addvspace{2.25em \@plus\p@}%
907 \begingroup
908 \setlength\@tempdima{3em}%
909 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
910 \parfillskip -\@pnumwidth
911 {\leavevmode
912 \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
913 \nobreak
914 \if@compatibility
915 \global\@nobreaktrue
916 \everypar{\global\@nobreakfalse\everypar{}}%
917 \fi
918 \endgroup
919 \fi}
920 \else
921 \renewcommand*\l@part{%
922 \ifnum \c@tocdepth >-2\relax
923 \addpenalty\@secpenalty
924 \addvspace{2.25em \@plus\p@}%
925 \@regtocline{0}%
926 \fi}
927 \fi
928 \renewcommand*\head@style{%
929 \interlinepenalty \@M
930 \hyphenpenalty=\@M \exhyphenpenalty=\@M
931 \if@RTL\leftskip\else\rightskip\fi=0cm plus .7\hsize\relax}
932 \if@titlepage
933 \renewenvironment{abstract}{%
934 \titlepage
935 \null\vfil
936 \section*{\SectFont\abstractname}%
937 \noindent\ignorespaces}
938 {\par\vfil\null\endtitlepage}
939 \else
940 \renewenvironment{abstract}{%
941 \if@twocolumn

```



```

942     \section*{\abstractname}%
943 \else
944     \section*{\hskip\unitindent\small\SectFont\abstractname}%
945     \list*{\setlength\listparindent{\unitindent}%
946           \setlength\parindent    {\z@}%
947           \setlength\leftmargin   {\unitindent}%
948           \setlength\rightmargin  {\unitindent}%
949           \setlength\parsep      {\z@}}%
950     \item[]%
951 \fi}
952 {\if@twocolumn\else\par\endlist\fi}
953 \fi
954 \renewcommand*\thesubsection{\thesection\@SepMark\@arabic\c@section}
955 \renewcommand*\thesubsubsection{\thesubsection\@SepMark\@arabic\c@subsubsection}
956 \renewcommand*\theparagraph{\thesubsubsection\@SepMark\@arabic\c@paragraph}
957 \renewcommand*\thesubparagraph{\theparagraph\@SepMark\@arabic\c@subparagraph}
958 \renewcommand*\left@footnoterule{%
959   \kern-3\p@
960   \hrule\@width 3\unitindent
961   \kern 2.6\p@
962 }
963 \renewcommand*\right@footnoterule{%
964   \kern-3\p@
965   \hbox to \columnwidth{\hskip \dimexpr\columnwidth-3\unitindent\relax \hrulefill }
966   \kern 2.6\p@}
967 \renewenvironment{thebibliography}[1]
968   {\section*{\refname}%
969     \@mkboth{\MakeUppercase\refname}{\MakeUppercase\refname}%
970     \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
971     \bidi@thebibliography@font@hook%
972     \list{\@biblabel{\@arabic\c@enumiv}}%
973           {\settowidth\labelwidth{\@biblabel{#1}}%
974           \leftmargin\labelwidth
975           \advance\leftmargin\labelsep
976           \@openbib@code
977           \usecounter{enumiv}%
978           \let\p@enumiv\@empty
979           \renewcommand*\theenumiv{\@arabic\c@enumiv}}%
980     \sloppy\clubpenalty4000\widowpenalty4000%
981     \sfcode\~.\@m}
982 {\def\@noitemerr
983   {\@latex@warning{Empty `thebibliography' environment}}}%
984 \endlist}
985 \if@titlepage
986 \renewcommand*\TitleFont{\rmfamily}
987 \renewcommand*\maketitle{%
988   \begin{titlepage}%
989     \let\footnotesize\small
990     \let\right@footnoterule\relax
991     \let\left@footnoterule\relax
992     \let\textwidth\footnoterule\relax
993     \let \footnote \thanks
994     \long\def\@makefntext##1{\parindent\z@
995       \def\labelitemi{\textendash}\@revlabeltrue

```



```

996      \leavevmode\@textsuperscript{\@thefnmark}\kern1em\relax ##1}
997      \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
998      \if@compatibility\setcounter{page}{0}\fi
999      \null\vfil
1000     \vskip 60\p@
1001     \begin{center}%
1002       \TitleFont
1003       {\LARGE \def\\{\penalty -\@M}
1004         \if@allcaps
1005           \expandafter\uc@nothanks\@title\thanks\relax
1006         \else
1007           \@title
1008           \fi\par}%
1009     \vskip 3em%
1010     {\large
1011       \lineskip .75em \parindent\z@
1012       \begin{tabular}[t]{c}%
1013         \if@allcaps
1014           \expandafter\uc@authornothanks\@author\and\relax
1015         \else
1016           \@author
1017         \fi
1018       \end{tabular}\par}%
1019     \vskip 1.5em%
1020     {\large
1021       \if@allcaps
1022         \uppercase\expandafter{\@date}%
1023       \else
1024         \@date
1025       \fi\par}%
1026     \end{center}\par
1027     \@thanks
1028     \vfil\null
1029   \end{titlepage}%
1030   \setcounter{footnote}{0}%
1031   \global\let\thanks\relax
1032   \global\let\maketitle\relax
1033   \global\let\@thanks\@empty
1034   \global\let\@author\@empty
1035   \global\let\@title\@empty
1036   \global\let\@date\@empty
1037   \global\let\title\relax
1038   \global\let\author\relax
1039   \global\let\date\relax
1040   \global\let\and\relax
1041 }
1042 \def\uc@nothanks#1\thanks{\uppercase{#1}\futurelet\@tempa\uc@tx}
1043 \def\uc@authornothanks#1\and{\uc@nothanks#1\thanks\relax
1044   \futurelet\@tempa\uc@ax}
1045 \def\uc@ax{%
1046   \ifx\@tempa\relax
1047   \else
1048     \ \andname \ \ \expandafter\uc@authornothanks
1049   \fi}

```



```

1050 \def\uc@tx{\ifx\@tempa\relax
1051     \else \expandafter\uc@ty \fi}
1052 \def\uc@ty#1{\thanks{#1}\uc@nothanks}
1053 \else
1054 \renewcommand*\maketitle{\par
1055     \begingroup
1056     \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
1057     \long\def\@makefntext##1{\parindent\z@
1058         \def\labelitemi{\textendash}%
1059         \leavevmode\hb@xt@.5\unitindent{%
1060             \@textsuperscript{\normalfont\@thefnmark}\hfil}##1}
1061     \if@twocolumn
1062         \ifnum \col@number=\@one
1063             \@maketitle
1064         \else
1065             \twocolumn[\@maketitle]%
1066         \fi
1067     \else
1068         \newpage
1069         \global\@topnum\z@
1070         \@maketitle
1071     \fi
1072     \thispagestyle{plain}\@thanks
1073 \endgroup
1074 \setcounter{footnote}{0}%
1075 \global\let\thanks\relax
1076 \global\let\maketitle\relax
1077 \global\let\@maketitle\relax
1078 \global\let\@thanks\@empty
1079 \global\let\@author\@empty
1080 \global\let\@title\@empty
1081 \global\let\@date\@empty
1082 \global\let\title\relax
1083 \global\let\author\relax
1084 \global\let\date\relax
1085 \global\let\and\relax
1086 }
1087 \def\@maketitle{%
1088     \newpage
1089     \null
1090     \vskip 2em%
1091     \begin{center}%
1092         \let \footnote \thanks
1093         {\LARGE \TitleFont \@title \par}%
1094         \vskip 1.5em%
1095         {\large \TitleFont
1096             \lineskip .5em%
1097             \begin{tabular}[t]{c}%
1098                 \@author
1099             \end{tabular}\par}%
1100         \vskip 1em%
1101         {\large \TitleFont \@date}%
1102     \end{center}%
1103     \par

```



```

1104 \vskip 1.5em}
1105 \fi

```

## 12 File artikel3-xetex-bidi.def

```

1106 \ProvidesFile{artikel3-xetex-bidi.def}[2017/06/09 v0.5 bidi adaptations for artikel3 class f
1107 \renewenvironment{theindex}{\%
1108 \if@twocolumn
1109 \@restonecolfalse
1110 \else
1111 \@restonecoltrue
1112 \fi
1113 \columnseprule \z@
1114 \columnsep 35\p@
1115 \twocolumn[\section*{\indexname}]\%
1116 \mkboth{\MakeUppercase{\indexname}}{\MakeUppercase{\indexname}}\%
1117 \thispagestyle{plain}\parindent\z@
1118 \parskip\z@ \@plus .3\p@\relax
1119 \let\item\@idxitem
1120 }\%
1121 \if@restonecol\onecolumn\else\clearpage\fi}
1122 \renewcommand*{\head@style}{\%
1123 \interlinepenalty \@M
1124 \hyphenpenalty=\@M \exhyphenpenalty=\@M
1125 \if@RTL\leftskip\else\rightskip\fi=0cm plus .7\hsize\relax}
1126 \renewcommand*{\regtocline}[3]{\%
1127 \ifnum #1>\c@tocdepth
1128 \else
1129 \vskip\z@ \@plus .2\p@
1130 {\hangindent\z@ \@afterindenttrue \interlinepenalty \@M
1131 \if@RTL\rightskip\else\leftskip\fi\unitindent
1132 \if@RTL\leftskip\else\rightskip\fi\unitindent \@plus 1fil
1133 \parfillskip\z@
1134 \@tempdima\unitindent
1135 \parindent\z@
1136 \leavevmode
1137 \hbox{} \hskip -\if@RTL\rightskip\else\leftskip\fi\relax#2\nobreak
1138 \hskip 1em \nobreak{\slshape #3}\par
1139 }\%
1140 \fi}
1141 \if@oldtoc
1142 \renewcommand*{\l@part}[2]{\%
1143 \ifnum \c@tocdepth >-2\relax
1144 \addpenalty\@secpenalty
1145 \addvspace{2.25em \@plus\p@}\%
1146 \begingroup
1147 \setlength{\tempdima}{3em}\%
1148 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
1149 \parfillskip -\@pnumwidth
1150 {\leavevmode
1151 \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
1152 \nobreak
1153 \if@compatibility
1154 \global\@nobreaktrue

```



```

1155     \everypar{\global\@nobreakfalse\everypar{}}%
1156     \fi
1157   \endgroup
1158 \fi}
1159 \else
1160   \renewcommand*\l@part{%
1161     \ifnum \c@tocdepth >-2\relax
1162       \addpenalty\@secpenalty
1163       \addvspace{2.25em \@plus \p@}%
1164       \@regtocline{0}%
1165     \fi}
1166 \fi
1167
1168 \if@oldtoc
1169 \renewcommand*\l@section[2]{%
1170   \addpenalty\@secpenalty
1171   \addvspace{1.0em \@plus \p@}%
1172   \setlength\@tempdima{1.5em}%
1173   \begingroup
1174   \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
1175   \parfillskip -\@pnumwidth
1176   \leavevmode \bfseries
1177   \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima
1178   \hskip -\if@RTL\rightskip\else\leftskip\fi
1179   #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
1180   \endgroup}
1181 \else
1182   \renewcommand*\l@section{\@regtocline{1}}
1183 \fi
1184 \if@titlepage
1185   \renewenvironment{abstract}{%
1186     \titlepage
1187     \null\vfil
1188     \section*{\SectFont\abstractname}%
1189     \noindent\ignorespaces}
1190     {\par\vfil\null\endtitlepage}
1191 \else
1192   \renewenvironment{abstract}{%
1193     \if@twocolumn
1194       \section*{\abstractname}%
1195     \else
1196       \bgroup\if@RTL\leftskip\else\rightskip\fi=\unitindent
1197       \section*{\small\SectFont\abstractname}%
1198       \noindent\ignorespaces
1199     \fi}
1200     {\if@twocolumn\else\par\egroup\fi}
1201 \fi
1202 \renewcommand*\left@footnoterule{%
1203   \kern-3\p@
1204   \kern.5\baselineskip
1205   \hrule\@width\unitindent
1206   \kern.4\baselineskip
1207 }
1208 \renewcommand*\right@footnoterule{%

```



```

1209 \kern-3\p@
1210 \kern.5\baselineskip
1211 \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\unitindent\relax \hrulefill }
1212 \kern.4\baselineskip}
1213 \renewcommand*\thesubsection{\thesection\@SepMark\@arabic\c@section}
1214 \renewcommand*\thesubsubsection{\thesubsection\@SepMark\@arabic\c@subsubsection}
1215 \renewcommand*\theparagraph{\thesubsubsection\@SepMark\@arabic\c@paragraph}
1216 \renewcommand*\thesubparagraph{\theparagraph\@SepMark\@arabic\c@subparagraph}
1217 \renewenvironment{thebibliography}[1]
1218     {\section*\refname}%
1219     \@mkboth{\MakeUppercase\refname}{\MakeUppercase\refname}%
1220     \ifRTL\ifLTRbibitems\@RTLfalse\else\fi\else\ifRTLbibitems\@RTLtrue\else\fi\fi
1221     \bidi@thebibliography@font@hook%
1222     \list{\@biblabel{\@arabic\c@enumiv}}%
1223         {\settowidth\labelwidth{\@biblabel{#1}}%
1224         \leftmargin\labelwidth
1225         \advance\leftmargin\labelsep
1226         \@openbib@code
1227         \usecounter{enumiv}%
1228         \let\p@enumiv\@empty
1229         \renewcommand*\theenumiv{\@arabic\c@enumiv}}%
1230     \sloppy\clubpenalty4000\widowpenalty4000%
1231     \sfcode`.\@m}
1232     {\def\@noitemerr
1233     {\@latex@warning{Empty `thebibliography' environment}}}%
1234     \endlist}
1235 \if@titlepage
1236 \renewcommand*\TitleFont{\rmfamily}
1237 \renewcommand*\maketitle{%
1238 \begin{titlepage}%
1239 \let\footnotesize\small
1240 \let\right@footnoterule\relax
1241 \let\left@footnoterule\relax
1242 \let\textwidth\footnoterule\relax
1243 \let \footnote \thanks
1244 \long\def\@makefntext##1{\parindent\z@
1245 \def\labelitemi{\textendash}\@revlabeltrue
1246 \leavevmode\@textsuperscript{\@thefnmark}\kern1em\relax ##1}
1247 \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
1248 \if@compatibility\setcounter{page}{0}\fi
1249 \null\vfil
1250 \vskip 60\p@
1251 \begin{center}%
1252 \TitleFont
1253 {\LARGE \def\\{\penalty -\@M}
1254 \if@allcaps
1255 \expandafter\uc@nothanks\@title\thanks\relax
1256 \else
1257 \@title
1258 \fi\par}%
1259 \vskip 3em%
1260 {\large
1261 \lineskip .75em \parindent\z@
1262 \begin{tabular}[t]{c}%

```



```

1263         \if@allcaps
1264         \expandafter\uc@authornothanks \@author\and\relax
1265         \else
1266         \@author
1267         \fi
1268     \end{tabular}\par}%
1269     \vskip 1.5em%
1270     {\large
1271     \if@allcaps
1272     \uppercase\expandafter{\@date}%
1273     \else
1274     \@date
1275     \fi\par}%
1276     \end{center}\par
1277     \@thanks
1278     \vfil\null
1279 \end{titlepage}%
1280 \setcounter{footnote}{0}%
1281 \global\let\thanks\relax
1282 \global\let\maketitle\relax
1283 \global\let\@thanks\@empty
1284 \global\let\@author\@empty
1285 \global\let\@title\@empty
1286 \global\let\@date\@empty
1287 \global\let\title\relax
1288 \global\let\author\relax
1289 \global\let\date\relax
1290 \global\let\and\relax
1291 }
1292 \def\uc@nothanks#1\thanks{\uppercase{#1}\futurelet\@tempa\uc@tx}
1293 \def\uc@authornothanks#1\and{\uc@nothanks#1\thanks\relax
1294     \futurelet\@tempa\uc@ax}%
1295 \def\uc@ax{%
1296     \ifx\@tempa\relax
1297     \else
1298     \ \andname \ \ \expandafter\uc@authornothanks
1299     \fi}
1300 \def\uc@tx{\ifx\@tempa\relax
1301     \else \expandafter\uc@ty \fi}
1302 \def\uc@ty#1{\thanks{#1}\uc@nothanks}
1303 \else
1304 \renewcommand*\maketitle{\par
1305     \begingroup
1306     \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
1307     \def\@makefnmark{\rlap{%
1308         \@textsuperscript{\normalfont\@thefnmark}}}%
1309     \long\def\@makefntext{\@xmakefntext{%
1310         \@textsuperscript{\normalfont\@thefnmark}}}%
1311     \if@twocolumn
1312     \ifnum \col@number=\@ne
1313     \@maketitle
1314     \else
1315     \twocolumn[\@maketitle]%
1316     \fi

```



```

1317 \else
1318 \newpage
1319 \global\@topnum\z@
1320 \@maketitle
1321 \fi
1322 \thispagestyle{plain}\@thanks
1323 \endgroup
1324 \setcounter{footnote}{0}%
1325 \global\let\thanks\relax
1326 \global\let\maketitle\relax
1327 \global\let\@maketitle\relax
1328 \global\let\@thanks\@empty
1329 \global\let\@author\@empty
1330 \global\let\@title\@empty
1331 \global\let\@date\@empty
1332 \global\let\title\relax
1333 \global\let\author\relax
1334 \global\let\date\relax
1335 \global\let\and\relax
1336 }
1337 \def\@maketitle{%
1338 \newpage
1339 \null
1340 \vskip 2em%
1341 \if@titlecentered
1342 \begin{center}%
1343 \let \footnote \thanks
1344 {\LARGE \TitleFont \@title \par}%
1345 \vskip 1.5em%
1346 {\large \TitleFont
1347 \lineskip .5em%
1348 \begin{tabular}[t]{c}%
1349 \@author
1350 \end{tabular}\par}%
1351 \vskip 1em%
1352 {\large \TitleFont \@date}%
1353 \end{center}%
1354 \else
1355 {\LARGE \TitleFont \head@style \@title \par} \vskip 1.5em
1356 {\large \TitleFont \lineskip .5em \tabcolsep\z@
1357 \def\and{%% \begin{tabular} has already started
1358 \end{tabular}\hskip 1em plus .17fil
1359 \if@RTL\begin{tabular}[t]{r}\else\begin{tabular}[t]{l}\fi}%% \end{tabu
1360 \if@RTL\begin{tabular}[t]{r}\else\begin{tabular}[t]{l}\fi\@author\end{tabular}\
1361 \vskip 1em {\large \TitleFont \@date}
1362 \fi
1363 \par
1364 \vskip 1.5em}
1365 \fi

```

### 13 File arydshln-xetex-bidi.def

```

1366 \ProvidesFile{arydshln-xetex-bidi.def}[2010/08/01 v0.2 bidi adaptations for arydshln package]
1367 \def\endarray{\adl@endarray \egroup \adl@arrayrestore \if@RTL\begin{array}\endR\egroup\fi\egroup

```



```

1368 \def\endtabular{\endarray $\if@RTLtab\endR\fi\egroup}
1369 \expandafter\let\csname endtabular*\endcsname\endtabular
1370 \let\adl@array\@array
1371 \def\@array{\adl@everyvbox\everyvbox
1372     \everyvbox{\adl@arrayinit \the\adl@everyvbox \everyvbox\adl@everyvbox}%
1373     \ifadl@inactive \adl@inactivate \else \adl@activate \fi
1374     \let\adl@noalign\noalign
1375     \adl@array}
1376 \ifadl@usingarypkg
1377 \def\@testpach{\@chclass
1378 \ifnum \@lastchclass=6 \@ne \@chnum \@ne \else
1379 \ifnum \@lastchclass=7 5 \else
1380 \ifnum \@lastchclass=8 \tw@ \else
1381 \ifnum \@lastchclass=9 \thr@@
1382 \else \z@
1383 \ifnum \@lastchclass = 10 \else
1384 \edef\@nextchar{\expandafter\string\@nextchar}%
1385 \@chnum
1386 \if \@nextchar c\z@ \else
1387 \if \@nextchar \if@RTLtab r\else l\fi\@ne \else
1388 \if \@nextchar \if@RTLtab l\else r\fi\tw@ \else
1389 \z@ \@chclass
1390 \if \@nextchar |\@ne \let\@arrayrule\adl@arrayrule \else
1391 \if \@nextchar : \@ne \let\@arrayrule\adl@arraydashrule \else
1392 \if \@nextchar ; \@ne \let\@arrayrule\adl@argarraydashrule \else
1393 \if \@nextchar !6 \else
1394 \if \@nextchar @7 \else
1395 \if \@nextchar <8 \else
1396 \if \@nextchar >9 \else
1397 10
1398 \@chnum
1399 \if \@nextchar m\thr@@\else
1400 \if \@nextchar p4 \else
1401 \if \@nextchar b5 \else
1402 \z@ \@chclass \z@ \@preamerr \z@ \fi \fi \fi \fi \fi \fi
1403 \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi}
1404
1405 \def\@classz{\@classx
1406     \@tempcnta \count@
1407     \prepnext@tok
1408     \@addtopreamble{\ifcase \@chnum
1409         \hfil
1410         \adl@putlrc{\d@llarbegin \insert@column \d@llarend}\hfil \or
1411         \hskip1sp\adl@putlrc{\d@llarbegin \insert@column \d@llarend}\hfil \or
1412         \hfil\hskip1sp\adl@putlrc{\d@llarbegin \insert@column \d@llarend}\or
1413         \setbox\adl@box\hbox \adl@startmbox{\@nextchar}\insert@column
1414         \adl@endmbox\or
1415         \setbox\adl@box\vtop \@startpbox{\@nextchar}\insert@column \@endpbox \or
1416         \setbox\adl@box\vbox \@startpbox{\@nextchar}\insert@column \@endpbox
1417         \fi}\prepnext@tok}
1418 \def\adl@class@start{4}
1419 \def\adl@class@iiiorvii{7}
1420
1421 \else

```



```

1422 \def\@testpach#1{\@chclass \ifnum \@lastchclass=\tw@ 4\relax \else
1423     \ifnum \@lastchclass=\thr@@ 5\relax \else
1424         \z@ \if #1c\@chnum \z@ \else
1425             \if \if@RTLtab#1r\else#1l\fi\@chnum \@one \else
1426             \if \if@RTLtab#1l\else#1r\fi\@chnum \tw@ \else
1427         \@chclass
1428             \if #1|\@one \let\@arrayrule\adl@arrayrule \else
1429             \if #1:\@one \let\@arrayrule\adl@arraydashrule \else
1430             \if #1;\@one \let\@arrayrule\adl@argarraydashrule \else
1431             \if #1@ \tw@ \else
1432             \if #1p\thr@@ \else \z@ \@preamerr 0\fi
1433     \fi \fi \fi \fi \fi \fi \fi \fi \fi}
1434
1435 \def\@arrayclassz{\ifcase \@lastchclass \@acolampacol \or \@ampacol \or
1436     \or \or \@addamp \or
1437     \@acolampacol \or \@firststampfalse \@acol \fi
1438     \edef\@preamble{\@preamble
1439         \ifcase \@chnum
1440             \hfil\adl@putlrc{\$ \relax \@sharp\$}\hfil
1441             \or \adl@putlrc{\$ \relax \@sharp\$}\hfil
1442             \or \hfil\adl@putlrc{\$ \relax \@sharp\$}\fi}}
1443 \def\@tabclassz{\ifcase \@lastchclass \@acolampacol \or \@ampacol \or
1444     \or \or \@addamp \or
1445     \@acolampacol \or \@firststampfalse \@acol \fi
1446     \edef\@preamble{\@preamble
1447         \ifcase \@chnum
1448             \hfil\adl@putlrc{\@sharp\unskip}\hfil
1449             \or \adl@putlrc{\@sharp\unskip}\hfil
1450             \or \hfil\hskip\z@ \adl@putlrc{\@sharp\unskip}\fi}}
1451 \def\adl@class@start{6}
1452 \def\adl@class@iiiorvii{3}
1453 \fi
1454 \ifpackageloaded{colortbl}{%
1455 \def\adl@inactivate{\adl@org@inactivate \let\CT@setup\adl@CT@setup}
1456 \def\adl@activate{\adl@org@activate \let\CT@setup\adl@act@CT@setup
1457     \let\@endpbox\adl@org@endpbox}
1458 \let\adl@CT@setup\CT@setup
1459 \def\CT@setup{\adl@CT@setup
1460     \@tempdima\ht\z@ \advance\@tempdima\minrowclearance
1461     \ifdim\adl@height<\@tempdima \global\adl@height\@tempdima \fi
1462     \ifdim\adl@depth<\dp\z@ \global\adl@depth\dp\z@\fi}
1463 \let\adl@act@CT@setup\CT@setup
1464 \def\@classz{\@classx
1465     \@tempcnta\count@ \prepnext@tok
1466     \expandafter\CT@extract\the\toks\@tempcnta\columncolor!\@nil
1467     \expandafter\adl@extract@arc\the\toks\@tempcnta\arrayrulecolor!\@nil
1468     \expandafter\adl@extract@drsc
1469         \the\toks\@tempcnta\doublerulesepcolor!\@nil
1470     \expandafter\adl@extract@dgc\the\toks\@tempcnta\dashgapcolor!\@nil
1471     \@addtopreamble{\if@RTL\beginL\fi%
1472         \setbox\z@\hbox\bgroup\bgroup\if@RTL\beginR\fi
1473         \ifcase \@chnum
1474             \hskip\stretch{.5}\kern\z@
1475             \dollarbegin

```



```

1476             \insert@column
1477             \d@llarend\hskip\stretch{.5}%
1478         \or \d@llarbegin \insert@column \d@llarend \hfill
1479         \or \hfill \kern\z@ \d@llarbegin \insert@column \d@llarend
1480         \or $\vcenter
1481             \@startpbox{\@nextchar}\insert@column \@endpbox $\%
1482         \or \vtop \@startpbox{\@nextchar}\insert@column \@endpbox
1483         \or \vbox \@startpbox{\@nextchar}\insert@column \@endpbox
1484         \fi
1485     \if@RTL\endR\fi\egroup\egroup
1486     \beginngroup
1487         \CT@setup
1488         \CT@column@color
1489         \CT@row@color
1490         \CT@cell@color
1491         \CT@do@color
1492     \endgroup
1493     \@tempdima\ht\z@
1494     \advance\@tempdima\minrowclearance
1495     \vrule\@height\@tempdima\@width\z@
1496     \unhbox\z@\if@RTL\endL\fi}%
1497     \prepnext@tok}
1498 \let\adl@act@classz\@classz
1499 \let\adl@org@classz\@classz
1500 }{}

```

## 14 File beamer-xetex-bidi.def

```

1501 \ProvidesFile{beamer-xetex-bidi.def}[2022/06/07 v0.3 bidi adaptations for beamer class for Xe
1502 \AtBeginDocument{%
1503     \if@RTLmain
1504         \raggedleft
1505     \else
1506         \raggedright
1507     \fi
1508 }
1509
1510 \renewcommand*{\bidi@beamer@ragged}{%
1511     \if@RTL
1512         \raggedleft
1513     \else
1514         \raggedright
1515     \fi
1516 }
1517
1518

```

## 15 File beamerbaseauxtemplates-xetex-bidi.def

```

1519 \ProvidesFile{beamerbaseauxtemplates-xetex-bidi.def}[2022/06/06 v0.2 bidi adaptations for be
1520 \bidi@csundef{beamer@tmpop@section in toc@circle}
1521
1522 \bidi@csundef{beamer@tmpop@subsection in toc@circle}
1523

```



```

1524 \bidi@csundef{beamer@@tmpop@subsubsection in toc@circle}
1525
1526 \defbeamertemplate{section in toc}{circle}
1527 {\leavevmode\bidi@beamer@leftskip=2ex%
1528   \llap{%
1529     \usebeamerfont*{section number projected}%
1530     \usebeamercolor{section number projected}%
1531     \begin{pgfpicture}{-1ex}{0ex}{1ex}{2ex}
1532       \color{bg}
1533       \pgfpathcircle{\pgfpoint{0pt}{.75ex}}{1.2ex}
1534       \pgfusepath{fill}
1535       \pgftext[base]{\color{fg}\inserttocsectionnumber}
1536     \end{pgfpicture}\kern1.25ex%
1537   }%
1538   \inserttocsection\par}
1539
1540 \defbeamertemplate{subsection in toc}{circle}
1541 {\leavevmode\bidi@beamer@leftskip=2em\inserttocsubsection\par}
1542
1543 \defbeamertemplate{subsubsection in toc}{circle}
1544 {\leavevmode\normalsize\usebeamerfont{subsection in
1545   toc}\bidi@beamer@leftskip=3em\usebeamerfont{subsubsection in toc}%
1546   \inserttocsubsubsection\par}
1547
1548 \bidi@csundef{beamer@@tmpop@section in toc@square}
1549
1550 \bidi@csundef{beamer@@tmpop@subsection in toc@square}
1551
1552 \bidi@csundef{beamer@@tmpop@subsubsection in toc@square}
1553
1554 \bidi@csundef{beamer@@tmpop@enumerate item@square}
1555
1556 \bidi@csundef{beamer@@tmpop@enumerate subitem@square}
1557
1558 \bidi@csundef{beamer@@tmpop@enumerate subsubitem@square}
1559
1560 \bidi@csundef{beamer@@tmpop@enumerate mini template@square}
1561
1562 \defbeamertemplate{section in toc}{square}
1563 {\leavevmode\bidi@beamer@leftskip=1.75ex%
1564   \llap{{%
1565     \usebeamerfont*{section number projected}%
1566     \usebeamercolor[bg]{section number projected}%
1567     \if@RTL
1568     \else
1569       \vrule width2.25ex height1.85ex depth.4ex%
1570       \hskip-2.25ex%
1571     \fi
1572     \hbox to2.25ex{{\hfil\color{fg}\inserttocsectionnumber\hfil}}}%
1573     \if@RTL
1574       \hskip-2.25ex%
1575       \vrule width2.25ex height1.85ex depth.4ex%
1576     \fi
1577   }}%

```



```

1578 \kern1.25ex\inserttocsection\par}
1579
1580 \defbeamertemplate{subsection in toc}{square}
1581 {\leavevmode\bidibeamer@leftskip=5ex\llap{%
1582     \usebeamercolor[bg]{subsection number projected}%
1583     \vrule width1ex height1ex\kern1ex}}\inserttocsubsection\par}
1584
1585 \defbeamertemplate{subsubsection in toc}{square}
1586 {\leavevmode\normalsize\usebeamerfont{subsection in
1587     toc}\bidibeamer@leftskip=7ex\usebeamerfont{subsubsection in toc}%
1588     \llap{%
1589         \usebeamercolor[bg]{subsubsection number projected}%
1590         \vrule width0.75ex height0.75ex\kern1ex}}\inserttocsubsubsection\par}
1591
1592 \defbeamertemplate{enumerate item}{square}
1593 {
1594     \hbox{%
1595         \usebeamerfont*{item projected}%
1596         \usebeamercolor[bg]{item projected}%
1597         \if@RTL
1598         \else
1599             \vrule width2.25ex height1.85ex depth.4ex%
1600             \hskip-2.25ex%
1601         \fi
1602         \hbox to2.25ex{%
1603             \hfil%
1604             \color{fg}\insertenumlabel%
1605             \hfil}}%
1606         \if@RTL
1607             \hskip-2.25ex%
1608             \vrule width2.25ex height1.85ex depth.4ex%
1609         \fi
1610     }%
1611 }
1612 [action]
1613 {\setbeamerfont{item projected}{size=\scriptsize}}
1614
1615 \defbeamertemplate{enumerate subitem}{square}
1616 {
1617     \hbox{%
1618         \usebeamerfont*{subitem projected}%
1619         \usebeamercolor[bg]{subitem projected}%
1620         \if@RTL
1621         \else
1622             \vrule width2.25ex height1.85ex depth.4ex%
1623             \hskip-2.25ex%
1624         \fi
1625         \hbox to2.25ex{%
1626             \hfil%
1627             \color{fg}\insertsubenumlabel%
1628             \hfil}}%
1629         \if@RTL
1630             \hskip-2.25ex%
1631             \vrule width2.25ex height1.85ex depth.4ex%

```



```

1632     \fi
1633   }}%
1634 }
1635
1636 \defbeamertemplate{enumerate subsubitem}{square}
1637 {
1638   \hbox{%
1639     \usebeamerfont*{subitem projected}%
1640     \usebeamercolor[bg]{subsubitem projected}%
1641     \if@RTL
1642     \else
1643       \vrule width2.25ex height1.85ex depth.4ex%
1644       \hskip-2.25ex%
1645     \fi
1646     \hbox to2.25ex{%
1647       \hfil%
1648       \color{fg}\insertsubsubenumlabel%
1649       \hfil}}%
1650     \if@RTL
1651       \hskip-2.25ex%
1652       \vrule width2.25ex height1.85ex depth.4ex%
1653     \fi
1654   }}%
1655 }
1656
1657 \defbeamertemplate{enumerate mini template}{square}
1658 {
1659   \hbox{%
1660     \usebeamerfont*{\beameritemnestingprefix item projected}%
1661     \usebeamercolor[bg]{\beameritemnestingprefix item projected}%
1662     \if@RTL
1663     \else
1664       \vrule width2.25ex height1.85ex depth.4ex%
1665       \hskip-2.25ex%
1666     \fi
1667     \hbox to2.25ex{%
1668       \hfil%
1669       \color{fg}\insertenumlabel%
1670       \hfil}}%
1671     \if@RTL
1672       \hskip-2.25ex%
1673       \vrule width2.25ex height1.85ex depth.4ex%
1674     \fi
1675   }}%
1676 }
1677
1678 \bidi@csundef{beamer@@tmpop@section in toc@ball}
1679
1680 \bidi@csundef{beamer@@tmpop@subsection in toc@ball}
1681
1682 \bidi@csundef{beamer@@tmpop@subsubsection in toc@ball}
1683
1684 \defbeamertemplate{section in toc}{ball}
1685 {\leavevmode\bidi@beamer@leftskip=2.75ex%

```



```

1686 \llap{%
1687   \normalsize%
1688   \begin{pgfpicture}{-1ex}{-0.7ex}{1ex}{1ex}
1689     \pgftext{\beamer@usesphere{section number projected}{tocsphere}}
1690     \pgftext{%
1691       \usebeamerfont*{section number projected}%
1692       \usebeamerfont*{section number projected}%
1693       \color{fg!90!bg}%
1694       \inserttocsectionnumber}
1695   \end{pgfpicture}%
1696   \kern1.25ex}%
1697 \inserttocsection\par
1698 }
1699 [action]
1700 {\setbeamerfont{section number projected}{size=\scriptsize}}
1701
1702 \defbeamertemplate{subsection in toc}{ball}
1703 {\leavevmode\bidibeamer@leftskip=5ex%
1704   \llap{\raise0.1ex\beamer@usesphere{subsection number projected}{bigsphere}\kern1ex}%
1705   \inserttocsubsection\par%
1706 }
1707
1708 \defbeamertemplate{subsubsection in toc}{ball}
1709 {\leavevmode\normalsize\usebeamerfont{subsection in
1710   toc}\bidibeamer@leftskip=7ex\usebeamerfont{subsubsection in toc}%
1711   \llap{\beamer@usesphere{subsubsection number projected}{bigsphere}\kern0.75ex}%
1712   \inserttocsubsubsection\par%
1713 }
1714
1715 \bidicsundef{beamer@@tmpop@block begin@rounded}
1716
1717 \bidicsundef{beamer@@tmpop@block alerted begin@rounded}
1718
1719 \bidicsundef{beamer@@tmpop@block example begin@rounded}
1720
1721 \defbeamertemplate{block begin}{rounded}[1][shadow=false]
1722 {%
1723   \par\vskip\medskipamount%
1724   \begin{beamerboxesrounded}[upper=block title,lower=block body,#1]%
1725     {\raggedright\usebeamerfont*{block title}\insertblocktitle}%
1726     \bidibeamer@ragged%
1727     \usebeamerfont{block body}%
1728   }
1729
1730 \defbeamertemplate{block alerted begin}{rounded}[1][shadow=false]
1731 {%
1732   \par\vskip\medskipamount%
1733   \begin{beamerboxesrounded}[upper=block title alerted,lower=block body alerted,#1]%
1734     {\raggedright\usebeamerfont*{block title alerted}\insertblocktitle}%
1735     \bidibeamer@ragged%
1736     \usebeamerfont{block body alerted}%
1737   }%
1738
1739 \defbeamertemplate{block example begin}{rounded}[1][shadow=false]

```



```

1740 {%
1741   \par\vskip\medskipamount%
1742   \begin{beamerboxesrounded}[upper=block title example,lower=block body example,#1]
1743     {\raggedright\usebeamerfont*{block title example}\insertblocktitle}%
1744     \bidi@beamer@ragged%
1745     \usebeamerfont{block body example}%
1746 }%
1747

```

## 16 File beamerbaseboxes-xetex-bidi.def

```

1748 \ProvidesFile{beamerbaseboxes-xetex-bidi.def}[2022/06/01 v0.1 bidi adaptations for beamerbas
1749 \renewcommand\beamerboxesrounded[2] [] {%
1750   \global\let\beamer@firstlineitemizeunskip=\relax%
1751   \vbox\bgroup%
1752   \setkeys{beamerboxes}{upper=block title,lower=block body,width=\textwidth,shadow=false}%
1753   \setkeys{beamerboxes}{#1}%
1754   {%
1755     \usebeamercolor{\bmb@lower}%
1756     \globalcolorstrue%
1757     \colorlet{lower.bg}{bg}%
1758   }%
1759   {%
1760     \usebeamercolor{\bmb@upper}%
1761     \globalcolorstrue%
1762     \colorlet{upper.bg}{bg}%
1763   }%
1764   %
1765   % Typeset head
1766   %
1767   \vskip4bp
1768   \setbox\bmb@box=\hbox{%
1769     \begin{minipage}[b]{\bmb@width}%
1770       \usebeamercolor{fg}{\bmb@upper}%
1771       #2%
1772     \end{minipage}}%
1773   \ifdim\wd\bmb@box=0pt%
1774     \setbox\bmb@box=\hbox{%
1775       \ht\bmb@box=1.5pt%
1776       \bmb@prevheight=-4.5pt%
1777     \else%
1778       \wd\bmb@box=\bmb@width%
1779       \bmb@temp=\dp\bmb@box%
1780       \ifdim\bmb@temp<1.5pt%
1781         \bmb@temp=1.5pt%
1782       \fi%
1783       \setbox\bmb@box=\hbox{\raise\bmb@temp\hbox{\box\bmb@box}}%
1784       \dp\bmb@box=0pt%
1785       \bmb@prevheight=\ht\bmb@box%
1786     \fi%
1787     \bmb@temp=\bmb@width%
1788     \bmb@dima=\bmb@temp\advance\bmb@dima by2.2bp%
1789     \bmb@dimb=\bmb@temp\advance\bmb@dimb by4bp%
1790     \hbox{%

```



```

1791 \begin{pgfpicture}{0bp}{+-\ht\bmb@box}{0bp}{+-\ht\bmb@box}
1792 \ifdim\wd\bmb@box=0pt%
1793 \color{lower.bg}%
1794 \else%
1795 \color{upper.bg}%
1796 \fi%
1797 \pgfpathqmoveto{-4bp}{-1bp}
1798 \pgfpathqcurveto{-4bp}{1.2bp}{-2.2bp}{3bp}{0bp}{3bp}
1799 \pgfpathlineto{\pgfpoint{\bmb@temp}{3bp}}
1800 \pgfpathcurveto%
1801 {\pgfpoint{\bmb@dima}{3bp}}%
1802 {\pgfpoint{\bmb@dimb}{1.2bp}}%
1803 {\pgfpoint{\bmb@dimb}{-1bp}}%
1804 \bmb@dima=-\ht\bmb@box%
1805 \advance\bmb@dima by-2pt%
1806 \pgfpathlineto{\pgfpoint{\bmb@dimb}{\bmb@dima}}
1807 \pgfpathlineto{\pgfpoint{-4bp}{\bmb@dima}}
1808 \pgfusepath{fill}
1809 \end{pgfpicture}%
1810 \copy\bmb@box%
1811 }%
1812 \nointerlineskip%
1813 \vskip-1pt%
1814 \ifdim\wd\bmb@box=0pt%
1815 \else%
1816 \hbox{%
1817 \begin{pgfpicture}{0pt}{0pt}{\bmb@width}{6pt}
1818 \bmb@dima=\bmb@width%
1819 \advance\bmb@dima by8bp%
1820 \pgfpathrectangle{\pgfpoint{-4bp}{-1bp}}{\pgfpoint{\bmb@dima}{8bp}}
1821 \pgfusepath{clip}
1822 {\pgftransformshift{\pgfpoint{-4bp}{0bp}}\pgftext[left,base]{\pgfuses shading{\bmb@transi
1823 \end{pgfpicture}%
1824 }%
1825 \nointerlineskip%
1826 \vskip-0.5pt%
1827 \fi%
1828 \setbox\bmb@colorbox=\hbox{\pgfpicturetrue\pgfsetcolor{lower.bg}}}%
1829 \setbox\bmb@box=\hbox\bgroup\begin{minipage}[b]{\bmb@width}%
1830 \vskip2pt%
1831 \usebeamercolor[fg]{\bmb@lower}%
1832 \colorlet{beamerstructure}{upper.bg}%
1833 \colorlet{structure}{upper.bg}%
1834 %\color{.}%
1835 \@bidi@list@minipage@parboxfalse
1836 }
1837
1838 \bidi@patchcmd{\endbeamerboxesrounded}{\begingroup}{%
1839 \begingroup
1840 \@RTLfalse
1841 }{}{}
1842
1843

```



## 17 File beamerbasecolor-xetex-bidi.def

```

1844 \ProvidesFile{beamerbasecolor-xetex-bidi.def}[2022/06/07 v0.2 bidi adaptations for beamerbas
1845 \renewenvironment{beamercolorbox}[2] [] {%
1846   \def\beamer@vmode{\leavevmode}%
1847   \setkeys{beamercolbox}{wd=\textwidth,ht={},dp={},%
1848     leftskip=0pt,rightskip=0pt plus1fil,%
1849     sep=0pt,colsep=0pt,colsep*=0pt,%
1850     shadow=false,rounded=false,ignorebg=false}%
1851   \if@RTL
1852     \setkeys{beamercolbox}{rightskip=0pt,leftskip=0pt plus1fil}%
1853   \else
1854     \setkeys{beamercolbox}{leftskip=0pt,rightskip=0pt plus1fil}%
1855   \fi
1856   \setkeys{beamercolbox}{#1}%
1857   \ifbeamercoloreempty[bg]{#2}{\@tempswafalse}{\@tempswattrue}%
1858   \ifbeamer@colbox@ignorebg\@tempswafalse\fi%
1859   \def\beamer@colbox@color{#2}%
1860   \setbox\beamer@tempbox=\hbox\bgroup\color@begingroup
1861     \ifbeamer@colbox@ignorebg%
1862       \colorlet{beamer@temp@color}{bg}%
1863       \usebeamercolor[fg]{#2}%
1864       \colorlet{bg}{beamer@temp@color}%
1865     \else%
1866       \usebeamercolor[fg]{#2}%
1867     \fi%
1868     \beginL
1869     \vbox\bgroup%
1870     \hsize=\beamer@colbox@wd%
1871     \@arrayparboxrestore%
1872     \leftskip=\beamer@colbox@ls%
1873     \ifdim\beamer@colbox@sep>\z@\advance\leftskip\beamer@colbox@sep\fi%
1874     \rightskip=\beamer@colbox@rs%
1875     \ifdim\beamer@colbox@sep>\z@\advance\rightskip\beamer@colbox@sep\fi%
1876     \if@tempswa\ifdim\beamer@colbox@colsep>\z@%
1877       \advance\leftskip by\beamer@colbox@colsep%
1878       \advance\rightskip by\beamer@colbox@colsep%
1879       \vskip\beamer@colbox@colsep%
1880     \fi%
1881     \ifdim\beamer@colbox@colseps>\z@\vskip\beamer@colbox@colseps\fi%
1882     \fi%
1883     \ifdim\beamer@colbox@sep>\z@\vskip\beamer@colbox@sep\fi%
1884     \beamer@vmode\ignorespaces}%
1885     \ifdim\beamer@colbox@sep>\z@\vskip\beamer@colbox@sep\fi%
1886     \if@tempswa
1887       \ifdim\beamer@colbox@colsep>\z@\vskip\beamer@colbox@colsep\fi%
1888       \ifdim\beamer@colbox@colseps>\z@\vskip\beamer@colbox@colseps\fi%
1889     \fi%
1890   \egroup\endL\color@endgroup\egroup%
1891   \wd\beamer@tempbox=\beamer@colbox@wd%
1892   \ifx\beamer@colbox@ht\empty\else\ht\beamer@tempbox=\beamer@colbox@ht\fi%
1893   \ifx\beamer@colbox@dp\empty\else\dp\beamer@tempbox=\beamer@colbox@dp\fi%
1894   \ifbeamer@colbox@rounded%
1895     \if@tempswa%

```



```

1896 \begin{beamerboxesrounded}[%
1897   shadow=\beamer@colbox@shadow,%
1898   lower=\beamer@colbox@color,%
1899   upper=normal text,%
1900   width=\beamer@colbox@wd]{}%
1901   \box\beamer@tempbox%
1902 \end{beamerboxesrounded}%
1903 \else%
1904   \ifdim\wd\beamer@tempbox>\textwidth%
1905     \setbox\beamer@tempbox=\hbox to\textwidth{\hss\box\beamer@tempbox\hss}%
1906   \fi%
1907   \box\beamer@tempbox%
1908 \fi%
1909 \else%
1910   \if@tempswa\setbox\beamer@tempbox=\hbox{%
1911     \usebeamercolor{\beamer@colbox@color}%
1912     \hskip-\beamer@colbox@colseps%
1913     \fboxsep=\z@\colorbox{bg}{}%
1914     \hskip\beamer@colbox@colseps%
1915     \box\beamer@tempbox%
1916     \hskip\beamer@colbox@colseps%
1917   }%
1918   \hskip-\beamer@colbox@colseps%
1919   }\fi%
1920   \ifdim\wd\beamer@tempbox>\textwidth%
1921     \setbox\beamer@tempbox=\hbox to\textwidth{\hskip0pt minus\beamer@leftmargin\relax\box\beamer@tempbox}%
1922   \fi%
1923   \box\beamer@tempbox%
1924 \fi%
1925 }
1926
1927

```

## 18 File beamerbaseframecomponents-xetex-bidi.def

```

1928 \ProvidesFile{beamerbaseframecomponents-xetex-bidi.def}[2022/06/13 v0.4 bidi adaptations for
1929 \renewcommand{\setbeamersize}[1]{%
1930   \beamer@dogeometryfalse%
1931   \setkeys{beamer@margin}{#1}%
1932   \ifbeamer@dogeometry%
1933     % Reset left margin now
1934     \beamer@tempdim=\beamer@leftmargin%
1935     \advance\beamer@tempdim by\beamer@leftsidebar%
1936     \if@RTLmain
1937       \geometry{right=\the\beamer@tempdim}%
1938     \else
1939       \geometry{left=\the\beamer@tempdim}%
1940     \fi
1941     % Reset right margin now
1942     \beamer@tempdim=\beamer@rightmargin%
1943     \advance\beamer@tempdim by\beamer@rightsidebar%
1944     \if@RTLmain
1945       \geometry{left=\the\beamer@tempdim}%
1946     \else

```



```

1947     \geometry{right=\the\beamer@tempdim}%
1948     \fi
1949 \fi%
1950 }
1951
1952 \newcommand*{\bidi@beamer@Gm@lmargin}{%
1953   \if@RTLmain
1954     \Gm@rmargin
1955   \else
1956     \Gm@lmargin
1957   \fi
1958 }
1959
1960 \newcommand*{\bidi@beamer@Gm@rmargin}{%
1961   \if@RTLmain
1962     \Gm@lmargin
1963   \else
1964     \Gm@rmargin
1965   \fi
1966 }
1967
1968 \def\ps@navigation{
1969   \def\@oddhead{%
1970     \begingroup%
1971     \setbox\beamer@tempbox=\hbox{\usebeamertemplate***{background canvas}\hyper@pagetransition}%
1972     \beamer@tempdim=\ht\beamer@tempbox%
1973     \setbox\beamer@tempbox=\hbox{\lower\beamer@tempdim\hbox{\box\beamer@tempbox}}%
1974     \wd\beamer@tempbox=0pt\ht\beamer@tempbox=0pt\dp\beamer@tempbox=0pt%
1975     \setbox\@tempboxa=\hbox{\usebeamertemplate***{background}}%
1976     \beamer@tempdim=\ht\@tempboxa%
1977     \setbox\@tempboxa=\hbox{\lower\beamer@tempdim\hbox{\box\@tempboxa}}%
1978     \wd\@tempboxa=0pt\ht\@tempboxa=0pt\dp\@tempboxa=0pt%
1979     \vbox{\hbox{\hskip-\bidi@beamer@Gm@lmargin\box\beamer@tempbox\box\@tempboxa}}%
1980     \hbox{%
1981       {%
1982         \setbox\beamer@tempbox=\hbox{\hskip-\bidi@beamer@Gm@lmargin}%
1983         \if@RTLmain
1984           {%
1985             \vbox to \sidebarheight{%
1986               \usebeamertemplate***{sidebar left}%
1987             }%
1988           }%
1989           \@ifpackageloaded{beamerinnerthemeinmargin}{%
1990             \hskip-\textwidth
1991           }%
1992           \fi
1993           {\setbox\beamer@tempbox=\hbox{\vbox to \sidebarheight{%
1994             \usebeamercolor*{sidebar left}%
1995             \usebeamertemplate{sidebar canvas left}%
1996             \vss%
1997           }}%
1998           \wd\beamer@tempbox=0pt\ht\beamer@tempbox=0pt\dp\beamer@tempbox=0pt%
1999           \box\beamer@tempbox}%
2000         \if@RTLmain

```



```

2001         \else
2002         {%
2003         \vbox to \sidebarheight{%
2004             \usebeamertemplate***{sidebar left}%
2005             \vfil%
2006         }}\fi}%
2007         \beamer@tempdim=\ht\beamer@tempbox%
2008         \setbox\beamer@tempbox=\hbox{{\lower\beamer@tempdim\hbox{\box\beamer@tempbox}}}%
2009         \wd\beamer@tempbox=0pt\ht\beamer@tempbox=0pt\dp\beamer@tempbox=0pt%
2010         \box\beamer@tempbox%
2011     }%
2012     {% print right sidebar first, since it should be overwritten by headline
2013         \setbox\beamer@tempbox=\hbox{\hskip\textwidth\hskip\beamer@rightmargin%
2014         \if@RTLmain
2015             {%
2016                 \vbox to \sidebarheight{%
2017                     \usebeamertemplate***{sidebar right}%
2018                     \vfil%
2019                 }}%
2020                 \hskip-\textwidth
2021                 \fi
2022                 {\setbox\beamer@tempbox=\hbox{\vbox to \sidebarheight{%
2023                     \usebeamercolor*{sidebar right}%
2024                     \usebeamertemplate{sidebar canvas right}%
2025                     \vss%
2026                 }}%
2027                     \wd\beamer@tempbox=0pt\ht\beamer@tempbox=0pt\dp\beamer@tempbox=0pt%
2028                     \box\beamer@tempbox}%
2029                     \if@RTLmain
2030                     \else
2031                     {%
2032                         \vbox to \sidebarheight{%
2033                             \usebeamertemplate***{sidebar right}%
2034                             \vfil%
2035                         }}\fi}%
2036                     \beamer@tempdim=\ht\beamer@tempbox%
2037                     \setbox\beamer@tempbox=\hbox{{\lower\beamer@tempdim\hbox{\box\beamer@tempbox}}}%
2038                     \wd\beamer@tempbox=0pt\ht\beamer@tempbox=0pt\dp\beamer@tempbox=0pt%
2039                     \box\beamer@tempbox%
2040                 }%
2041                 \beamer@typesetheadorfoot{headline}%
2042             }%
2043             \hfil}%
2044         \endgroup}
2045     \def\@oddfoot{%
2046         \vbox{\offinterlineskip\hbox{\beamer@typesetheadorfoot{footline}%
2047         \hfil}\hbox{}}\hfil
2048     }%
2049     \let\@evenhead\@oddhead
2050     \let\@evenfoot\@oddfoot}
2051
2052 \AtBeginDocument{%
2053     \pagestyle{navigation}%
2054 }

```



```

2055
2056 \def\beamer@typesetheadorfoot#1{% typeset the head or footline
2057   {\parskip0pt\offinterlineskip%
2058     \hbox{%
2059       \hskip-\bidi@beamer@Gm@lmargin%
2060       \hbox{%
2061         \vbox{%
2062           \@tempdima=\textwidth%
2063           \textwidth=\paperwidth%
2064           \hsize=\textwidth%
2065           \def\{\,%
2066             \usebeamertemplate***{#1}%
2067           }%
2068           \hskip-\bidi@beamer@Gm@rmargin%
2069         }\hfil%
2070       }
2071
2072 \def\ps@empty{%
2073   \let\@mkboth\@gobbletwo%
2074   \def\@oddhead{\begingroup%
2075     \setbox\beamer@tempbox=\hbox{\usebeamertemplate***{background canvas}\hyper@pagetransition%
2076     \beamer@tempdim=\ht\beamer@tempbox%
2077     \setbox\beamer@tempbox=\hbox{\lower\beamer@tempdim\hbox{\box\beamer@tempbox}}%
2078     \wd\beamer@tempbox=0pt\ht\beamer@tempbox=0pt\dp\beamer@tempbox=0pt%
2079     \setbox\@tempboxa=\hbox{\usebeamertemplate***{background}}%
2080     \beamer@tempdim=\ht\@tempboxa%
2081     \setbox\@tempboxa=\hbox{\lower\beamer@tempdim\hbox{\box\@tempboxa}}%
2082     \wd\@tempboxa=0pt\ht\@tempboxa=0pt\dp\@tempboxa=0pt%
2083     \vbox{\hbox{\hskip-\Gm@lmargin\raise\headheight\box\beamer@tempbox\raise\headheight\box%
2084     \endgroup%
2085   }
2086   \def\@oddfoot{\normalcolor\hfil%
2087     \setbox\beamer@tempbox=\hbox{\usebeamertemplate***{navigation symbols}\hskip-\Gm@rmargin%
2088     \ht\beamer@tempbox=0pt%
2089     \dp\beamer@tempbox=0pt%
2090     \box\beamer@tempbox}}
2091   \let\@evenhead\@oddhead\let\@evenfoot\@oddfoot}
2092
2093 \renewcommand<>\beamer@columncom[2][\beamer@colmode]{%
2094   \beamer@colclose%
2095   \def\beamer@colclose{\end{minipage}\hfill\end{actionenv}\ignorespaces}%
2096 \begin{actionenv}#3%
2097   \setkeys{beamer@col}{#1}%
2098   \begin{minipage}[\beamer@colalign]{#2}%
2099     \leavevmode\bidi@beamer@ragged\beamer@colheadskip\ignorespaces}
2100
2101 \renewenvironment<>{columns}[1][]{%
2102   \begin{actionenv}#2%
2103     \ifbeamer@onlytextwidth
2104       \def\beamer@colentrycode{\hbox to\textwidth\bgroup\ignorespaces}%
2105       \def\beamer@colexitcode{\unskip\egroup}
2106     \else%
2107       \def\beamer@colentrycode{%
2108         \hbox to\textwidth\bgroup%

```



```

2109     \leavevmode%
2110     \hskip-\beamer@leftmargin%
2111     \nobreak%
2112     \beamer@tempdim=\textwidth%
2113     \advance\beamer@tempdim by\beamer@leftmargin%
2114     \advance\beamer@tempdim by\beamer@rightmargin%
2115     \hbox to\beamer@tempdim\bgroup%
2116     \hbox{}\hfill\ignorespaces}%
2117     \def\beamer@colexitcode{\egroup%
2118     \nobreak%
2119     \hskip-\beamer@rightmargin\egroup}%
2120     \fi%
2121     \ifbeamer@centered\setkeys{beamer@col}{c}\else\setkeys{beamer@col}{t}\fi%
2122     \setkeys{beamer@col}{#1}%
2123     \par%
2124     \leavevmode
2125     \beamer@colentrycode%
2126     \def\beamer@colclose{\ignorespaces}%
2127     {\beamer@colclose\def\beamer@colclose{\beamer@colexitcode\end{actionenv}}}%
2128
2129
2130     \def\@makeRTLfnfntext#1{%
2131     \def\insertfootnotetext{#1}%
2132     \def\insertfootnotemark{\@makefnmark}%
2133     \usebeamertemplate***{RTLfootnote}}
2134
2135     \def\@makeLTRfnfntext#1{%
2136     \def\insertfootnotetext{#1}%
2137     \def\insertfootnotemark{\@makefnmark}%
2138     \usebeamertemplate***{LTRfootnote}}
2139
2140 \renewcommand<>\beamer@framefootnotetext[1]{%
2141   \global\setbox\beamer@footins\vbox{%
2142     \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
2143     \hsize\framewidth
2144     \textwidth\hsize
2145     \columnwidth\hsize
2146     \unvbox\beamer@footins
2147     \reset@font
2148     \bidi@@footnotetext@font
2149     \@parboxrestore
2150     \protected@edef\@currentlabel
2151       {\csname p@footnote\endcsname\@thefnmark}%
2152     \color@begingroup
2153     \uncover#2{\@makefnfntext{%
2154       \rule{z@footnotesep\ignorespaces#1\@finalstrut\strutbox}}}%
2155     \color@endgroup}}
2156
2157 \renewcommand<>\beamer@frameRTLfootnotetext[1]{%
2158   \global\setbox\beamer@footins\vbox{%
2159     \@RTLtrue
2160     \hsize\framewidth
2161     \textwidth\hsize
2162     \columnwidth\hsize

```



```

2163 \unvbox\beamer@footins
2164 \reset@font
2165 \bidi@RTLfootnotetext@font
2166 \@parboxrestore
2167 \protected@edef\@currentlabel
2168     {\csname p@footnote\endcsname\@thefnmark}%
2169 \color@begingroup
2170     \uncover#2{\@makeRTLfntext{%
2171         \rule\z@\footnotesep\ignorespaces#1\@finalstrut\strutbox}}%
2172 \color@endgroup}}
2173
2174 \renewcommand<>\beamer@frameLTRfootnotetext[1]{%
2175 \global\setbox\beamer@footins\vbox{%
2176     \RTLfalse
2177     \hsize\framewidth
2178     \textwidth\hsize
2179     \columnwidth\hsize
2180     \unvbox\beamer@footins
2181     \reset@font
2182     \bidi@LTRfootnotetext@font
2183     \@parboxrestore
2184     \protected@edef\@currentlabel
2185         {\csname p@footnote\endcsname\@thefnmark}%
2186     \color@begingroup
2187         \uncover#2{\@makeLTRfntext{%
2188             \rule\z@\footnotesep\ignorespaces#1\@finalstrut\strutbox}}%
2189     \color@endgroup}}
2190
2191 \renewcommand<>\@mpfootnotetext[1]{%
2192 \ifbidi@autofootnoterule\ifnum\c@mpfootnote=\@ne\ifRTL@footnote\global\let\bidi@mpfootnoterule
2193 \global\setbox\@mpfootins\vbox{%
2194     \ifRTL@footnote\RTLtrue\else\RTLfalse\fi
2195     \unvbox\@mpfootins
2196     \reset@font
2197     \bidi@footnotetext@font
2198     \hsize\columnwidth
2199     \@parboxrestore
2200     \protected@edef\@currentlabel
2201         {\csname p@mpfootnote\endcsname\@thefnmark}%
2202     \color@begingroup
2203         \uncover#2{\@makefntext{%
2204             \rule\z@\footnotesep\ignorespaces#1\@finalstrut\strutbox}}%
2205     \color@endgroup}}
2206
2207 \renewcommand<>\@mpRTLfootnotetext[1]{%
2208 \ifbidi@autofootnoterule\ifnum\c@mpfootnote=\@ne\global\let\bidi@mpfootnoterule\right@footnoterule
2209 \global\setbox\@mpfootins\vbox{%
2210     \RTLtrue
2211     \unvbox\@mpfootins
2212     \reset@font
2213     \bidi@RTLfootnotetext@font
2214     \hsize\columnwidth
2215     \@parboxrestore
2216     \protected@edef\@currentlabel

```



```

2217         {\csname p@mpfootnote\endcsname\@thefnmark}%
2218     \color@begingroup
2219         \uncover#2{\@makeRTLfnstext{%
2220             \rule{z@footnotesep\ignorespaces#1\@finalstrut\strutbox}}}%
2221     \color@endgroup}}
2222
2223 \renewcommand<>\@mpLTRfootnotetext[1]{%
2224 \ifbidi@autofooterule\ifnum\c@mpfootnote=\@ne\global\let\bidi@mpfootnoterule\left@footnot
2225 \global\setbox\@mpfootins\vbox{%
2226 \@RTLfalse
2227 \unvbox\@mpfootins
2228 \reset@font
2229 \bidi@@LTRfootnotetext@font
2230 \hsize\columnwidth
2231 \@parboxrestore
2232 \protected@edef\@currentlabel
2233     {\csname p@mpfootnote\endcsname\@thefnmark}%
2234 \color@begingroup
2235     \uncover#2{\@makeLTRfnstext{%
2236         \rule{z@footnotesep\ignorespaces#1\@finalstrut\strutbox}}}%
2237 \color@endgroup}}
2238
2239 \let\@footnotetext=\beamer@framefootnotetext
2240 \let\@RTLfootnotetext=\beamer@frameRTLfootnotetext
2241 \let\@LTRfootnotetext=\beamer@frameLTRfootnotetext
2242
2243 \footdir@temp\footdir@ORG@bidi@beamer@footnotetext\@footnotetext{\bidi@footdir@footnote}%
2244 \footdir@temp\footdir@ORG@bidi@beamer@RTLfootnotetext\@RTLfootnotetext{R}%
2245 \footdir@temp\footdir@ORG@bidi@beamer@LTRfootnotetext\@LTRfootnotetext{L}%
2246
2247 \renewcommand<>{\footnote}[1][ ]{%
2248 \let\beamer@footnotetext=\@footnotetext%
2249 \let\beamer@mpfn=\@mpfn%
2250 \let\beamer@thempfn=\thempfn%
2251 \let\beamer@kvorig=\KV@errx%
2252 \let\beamer@xkvorig=\XKV@err
2253 \def\beamer@footarg{}%
2254 \def\KV@errx##1{\edef\beamer@footarg{\@tempa}}%
2255 \def\XKV@err##1{\edef\beamer@footarg{\XKV@tkey}}%
2256 \setkeys{beamerfootnote}{#1}%
2257 \let\KV@errx=\beamer@kvorig%
2258 \let\XKV@errx=\beamer@xkvorig%
2259 \ifx\beamer@footarg\@empty%
2260 \def\beamer@next{\stepcounter\beamer@mpfn
2261 \protected@xdef\@thefnmark{\beamer@thempfn}%
2262 \@footnotemark\beamer@footnotetext#2}%
2263 \else%
2264 \def\beamer@next{%
2265 \begingroup
2266 \csname c@beamer@mpfn\endcsname\beamer@footarg\relax
2267 \unrestored@protected@xdef\@thefnmark{\beamer@thempfn}%
2268 \endgroup
2269 \@footnotemark\beamer@footnotetext#2}%
2270 \fi%

```



```

2271 \beamer@next}
2272
2273 \renewcommand<>{\RTLfootnote}[1] [] {%
2274   \let\beamer@RTLfootnotetext=\@RTLfootnotetext%
2275   \let\beamer@mpfn=\@mpfn%
2276   \let\beamer@thempfn=\thempfn%
2277   \let\beamer@kvorig=\KV@errx%
2278   \let\beamer@xkvorig=\XKV@err
2279   \def\beamer@footarg{%
2280     \def\KV@errx##1{\edef\beamer@footarg{\@tempa}}%
2281     \def\XKV@err##1{\edef\beamer@footarg{\XKV@tkey}}%
2282     \setkeys{beamerfootnote}{#1}%
2283     \let\KV@errx=\beamer@kvorig%
2284     \let\XKV@errx=\beamer@xkvorig
2285     \ifx\beamer@footarg\@empty%
2286       \def\beamer@next{\stepcounter\beamer@mpfn
2287         \protected@xdef\@thefnmark{\beamer@thempfn}%
2288         \@footnotemark\beamer@RTLfootnotetext#2}%
2289     \else%
2290       \def\beamer@next{%
2291         \begingroup
2292           \csname c@\beamer@mpfn\endcsname\beamer@footarg\relax
2293           \unrestored@protected@xdef\@thefnmark{\beamer@thempfn}%
2294         \endgroup
2295         \@footnotemark\beamer@RTLfootnotetext#2}%
2296     \fi%
2297   \beamer@next}
2298
2299 \renewcommand<>{\LTRfootnote}[1] [] {%
2300   \let\beamer@LTRfootnotetext=\@LTRfootnotetext%
2301   \let\beamer@mpfn=\@mpfn%
2302   \let\beamer@thempfn=\thempfn%
2303   \let\beamer@kvorig=\KV@errx%
2304   \let\beamer@xkvorig=\XKV@err
2305   \def\beamer@footarg{%
2306     \def\KV@errx##1{\edef\beamer@footarg{\@tempa}}%
2307     \def\XKV@err##1{\edef\beamer@footarg{\XKV@tkey}}%
2308     \setkeys{beamerfootnote}{#1}%
2309     \let\KV@errx=\beamer@kvorig%
2310     \let\XKV@errx=\beamer@xkvorig
2311     \ifx\beamer@footarg\@empty%
2312       \def\beamer@next{\stepcounter\beamer@mpfn
2313         \protected@xdef\@thefnmark{\beamer@thempfn}%
2314         \@footnotemark\beamer@LTRfootnotetext#2}%
2315     \else%
2316       \def\beamer@next{%
2317         \begingroup
2318           \csname c@\beamer@mpfn\endcsname\beamer@footarg\relax
2319           \unrestored@protected@xdef\@thefnmark{\beamer@thempfn}%
2320         \endgroup
2321         \@footnotemark\beamer@LTRfootnotetext#2}%
2322     \fi%
2323   \beamer@next}
2324

```



## 19 File beamerbaselocalstructure-xetex-bidi.def

```

2326 \ProvidesFile{beamerbaselocalstructure-xetex-bidi.def}[2022/05/24 v0.1 bidi adaptations for
2327 \def\beamer@enum@{%
2328   \beamer@compute@pref\@itemdepth% sets \beameritemnestingprefix
2329   \usebeamerfont{itemize/enumerate \beameritemnestingprefix body}%
2330   \bgroup
2331   \usebeamercolor[fg]{itemize/enumerate \beameritemnestingprefix body}%
2332   \usebeamertemplate{itemize/enumerate \beameritemnestingprefix body begin}%
2333   \egroup
2334   \expandafter
2335     \list
2336       {\usebeamertemplate{\beamer@enumtempl}}
2337       {\usecounter\@enumctr%
2338         \def\makelabel##1{{\hss\llap{{%
2339           \usebeamerfont*{enumerate \beameritemnestingprefix item}%
2340           \usebeamercolor[fg]{enumerate \beameritemnestingprefix item}##1}}}}}%
2341   \beamer@cramped%
2342   \bidi@beamer@ragged%
2343   \beamer@firstlineitemizeunskip%
2344 }
2345
2346 \renewcommand{\itemize}[1][\@]{%
2347   \ifblank{#1}{\def\beamer@defaulttospec{#1}}%
2348   \ifnum \@itemdepth >2\relax\@toodeep\else
2349     \advance\@itemdepth\@ne
2350     \beamer@compute@pref\@itemdepth% sets \beameritemnestingprefix
2351     \usebeamerfont{itemize/enumerate \beameritemnestingprefix body}%
2352     \bgroup
2353     \usebeamercolor[fg]{itemize/enumerate \beameritemnestingprefix body}%
2354     \usebeamertemplate{itemize/enumerate \beameritemnestingprefix body begin}%
2355     \egroup
2356     \list
2357       {\usebeamertemplate{itemize \beameritemnestingprefix item}}
2358       {\def\makelabel##1{%
2359         {%
2360           \hss\llap{{%
2361             \usebeamerfont*{itemize \beameritemnestingprefix item}%
2362             \usebeamercolor[fg]{itemize \beameritemnestingprefix item}##1}}}%
2363         }%
2364       }%
2365     }
2366   \fi%
2367   \beamer@cramped%
2368   \bidi@beamer@ragged%
2369   \beamer@firstlineitemizeunskip%
2370 }
2371
2372 \def\@@description{%
2373   \advance\beamer@descdefault by \labelsep%
2374   \usebeamerfont{description body}%
2375   \bgroup

```



```

2376 \usebeamercolor[fg]{description body}%
2377 \usebeamertemplate{description body begin}%
2378 \egroup
2379 \list
2380 {}
2381 {\labelwidth\beamer@descdefault\leftmargin\beamer@descdefault\let\makelabel\beamer@descrip
2382 \beamer@cramped%
2383 \bidi@beamer@ragged
2384 \beamer@firstlineitemizeunskip%
2385 }
2386
2387 \renewenvironment{thebibliography}[1]
2388 {%\leavevmode\unskip%
2389 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
2390 \bidi@thebibliography@font@hook%
2391 \list{\@biblabel{\@arabic\c@enumiv}}%
2392         {\settowidth\labelwidth{\beamer@biblabeltemplate{\@biblabel{#1}}}%
2393         \leftmargin\labelwidth
2394         \advance\leftmargin\labelsep
2395         \itemsep=0pt%
2396         \partopsep=0pt%
2397         \topsep=0pt%
2398         \usecounter{enumiv}%
2399         \let\p@enumiv\@empty
2400         \renewcommand\theenumiv{\@arabic\c@enumiv}
2401         \let\makelabel\beamer@biblabeltemplate}%
2402 \sloppy\bidi@beamer@ragged
2403 \clubpenalty10000
2404 \@clubpenalty \clubpenalty
2405 \widowpenalty10000%
2406 \sfcode`.\@m}
2407 {\def\@noitemerr
2408   {\@latex@warning{Empty `thebibliography' environment}}}%
2409 \ifhmode\unskip\fi\endlist}
2410
2411

```

## 20 File beamerbasenavigation-xetex-bidi.def

```

2412 \ProvidesFile{beamerbasenavigation-xetex-bidi.def}[2022/06/09 v0.1 bidi adaptations for beam
2413 \def\slideentry#1#2#3#4#5#6{%
2414   %section number, subsection number, slide number, first/last frame, page number, part numb
2415   \ifnum#6=\c@part\ifnum#1>0\ifnum#3>0%
2416     \ifbeamer@compress%
2417     \advance\beamer@xpos by1\relax%
2418   \else%
2419     \ifnum#2=0%
2420     \beamer@ypos@offset=1\relax%
2421   \fi
2422   \beamer@xpos=#3\relax%
2423   \beamer@ypos=#2\relax%
2424   \advance\beamer@ypos by \beamer@ypos@offset\relax
2425   \fi%
2426   \hbox to 0pt{%

```



```

2427 \beamer@tempdim=-\beamer@vboxoffset%
2428 \advance\beamer@tempdim by-\beamer@boxsize%
2429 \multiply\beamer@tempdim by\beamer@ypos%
2430 \advance\beamer@tempdim by -.05cm%
2431 \raise\beamer@tempdim\hbox{%
2432   \beamer@tempdim=\beamer@boxsize%
2433   \multiply\beamer@tempdim by\beamer@xpos%
2434   \advance\beamer@tempdim by -\beamer@boxsize%
2435   \advance\beamer@tempdim by 1pt%
2436   \kern\beamer@tempdim
2437   \global\beamer@section@min@dim\beamer@tempdim
2438   \hbox{\beamer@link(#4){%
2439     \usebeamerfont{mini frame}%
2440     \ifnum\c@section=#1%
2441       \ifnum\c@subsection=#2%
2442         \usebeamercolor{fg}{mini frame}%
2443         \ifnum\c@subsectionslide=#3%
2444           \usebeamertemplate{mini frame}%\beamer@minislidehighlight%
2445         \else%
2446           \usebeamertemplate{mini frame in current subsection}%\beamer@minisliderowhighlight%
2447         \fi%
2448       \else%
2449         \usebeamercolor{mini frame}%
2450         %\color{fg!50!bg}%
2451         \usebeamertemplate{mini frame in other subsection}%\beamer@minislide%
2452       \fi%
2453     \else%
2454       \usebeamercolor{mini frame}%
2455       %\color{fg!50!bg}%
2456       \usebeamertemplate{mini frame in other subsection}%\beamer@minislide%
2457     \fi%
2458   }}}\hskip-10cm plus 1fil%
2459 }\fi\fi%
2460 \else%
2461 \fakeslideentry{#1}{#2}{#3}{#4}{#5}{#6}%
2462 \fi\ignorespaces
2463 }
2464

```

## 21 File beamerbaseoverlay-xetex-bidi.def

```

2465 \ProvidesFile{beamerbaseoverlay-xetex-bidi.def}[2022/06/10 v0.1 bidi adaptations for beamer]
2466 \renewcommand<>{\color}{\alt#1{\beameroriginal{\color}}{\beamer@gobbleoptionalinsp}}
2467
2468

```

## 22 File beamerinnerthemedefault-xetex-bidi.def

```

2469 \ProvidesFile{beamerinnerthemedefault-xetex-bidi.def}[2022/06/10 v0.5 bidi adaptations for beamer]
2470 \newcommand*{\bidi@beamer@leftskip}{%
2471   \if@RTL
2472     \rightskip
2473   \else
2474     \leftskip

```



```

2475 \fi
2476 }
2477
2478 \newcommand*{\bidi@beamer@rightskip}{%
2479 \if@RTL
2480 \leftskip
2481 \else
2482 \rightskip
2483 \fi
2484 }
2485
2486 \bidi@csundef{beamer@@tmpop@subsection in toc@default}
2487
2488 \bidi@csundef{beamer@@tmpop@subsubsection in toc@default}
2489
2490 \defbeamertemplate*{subsection in toc}{default}
2491 {\leavevmode\bidi@beamer@leftskip=1.5em\inserttocsubsection\par}
2492
2493 \defbeamertemplate*{subsubsection in toc}{default}
2494 {\leavevmode\normalsize\usebeamerfont{subsection in toc}\bidi@beamer@leftskip=3em%
2495 \usebeamerfont{subsubsection in toc}\inserttocsubsubsection\par}
2496
2497 \newcommand*{\bidi@beamer@blacktriangle}{%
2498 \if@RTL
2499 $\blacktriangleleft$%
2500 \else
2501 $\blacktriangleright$%
2502 \fi
2503 }
2504
2505 \bidi@csundef{beamer@@tmpop@itemize item@default}
2506
2507 \bidi@csundef{beamer@@tmpop@itemize subitem@default}
2508
2509 \bidi@csundef{beamer@@tmpop@itemize subsubitem@default}
2510
2511 \defbeamertemplate*{itemize item}{default}{\usebeamerfont*{itemize item}\raise1.25pt\hbox{\d
2512 \defbeamertemplate*{itemize subitem}{default}{\usebeamerfont*{itemize subitem}\raise1.5pt\hb
2513 \defbeamertemplate*{itemize subsubitem}{default}{\usebeamerfont*{itemize subsubitem}\raise1.
2514
2515 \bidi@undef\beamer@@tmpop@footnote@default
2516
2517 \defbeamertemplate*{footnote}{default}
2518 {
2519 \parindent 1em\noindent%
2520 \bidi@beamer@ragged
2521 \hbox to 1.8em{\hfil\insertfootnotemark}\insertfootnotetext\par%
2522 }
2523
2524 \defbeamertemplate*{RTLfootnote}{default}
2525 {
2526 \parindent 1em\noindent%
2527 \raggedleft
2528 \hbox to 1.8em{\hfil\insertfootnotemark}\insertfootnotetext\par%

```



```

2529 }
2530
2531 \defbeamertemplate*{LTRfootnote}{default}
2532 {
2533   \parindent 1em\noindent%
2534   \raggedright
2535   \hbox to 1.8em{\hfil\insertfootnotemark}\insertfootnotetext\par%
2536 }
2537
2538 \bidi@undef\beamer@@tmpop@caption@default
2539
2540 \defbeamertemplate*{caption}{default}
2541 {%
2542   \bidi@beamer@ragged
2543   {%
2544     \leavevmode
2545     \usebeamerfont[fg]{caption name}%
2546     \usebeamerfont*{caption name}%
2547     \insertcaptionname
2548     \usebeamertemplate{caption label separator}%
2549   }%
2550   \insertcaption\par
2551 }
2552
2553 \bidi@csundef{beamer@@tmpop@block begin@default}
2554
2555 \bidi@csundef{beamer@@tmpop@block alerted begin@default}
2556
2557 \bidi@csundef{beamer@@tmpop@block example begin@default}
2558
2559 \defbeamertemplate*{block begin}{default}
2560 {
2561   \par\vskip\medskipamount%
2562   \begin{beamercolorbox}[colsep*=.75ex]{block title}
2563     \usebeamerfont*{block title}\insertblocktitle%
2564   \end{beamercolorbox}%
2565   {\parskip0pt\par}%
2566   \ifbeamercoloreempty[bg]{block title}
2567   {}
2568   {\ifbeamercoloreempty[bg]{block body}{\nointerlineskip\vskip-0.5pt}}%
2569   \usebeamerfont{block body}%
2570   \begin{beamercolorbox}[colsep*=.75ex,vmode]{block body}%
2571     \ifbeamercoloreempty[bg]{block body}{\vskip-.25ex}{\leavevmode\vskip-\dimexpr.75ex+\baselineskip}
2572   }
2573
2574 \defbeamertemplate*{block alerted begin}{default}
2575 {
2576   \par\vskip\medskipamount%
2577   \begin{beamercolorbox}[colsep*=.75ex]{block title alerted}
2578     \usebeamerfont*{block title alerted}\insertblocktitle%
2579   \end{beamercolorbox}%
2580   {\parskip0pt\par}%
2581   \ifbeamercoloreempty[bg]{block title alerted}
2582   {}

```



```

2583 {\ifbeamercolorempy[bg]{block body alerted}{\nointerlineskip\vskip-0.5pt}}%
2584 \usebeamerfont{block body alerted}%
2585 \begin{beamercolorbox}[colsep*=.75ex,vmode]{block body alerted}%
2586 \ifbeamercolorempy[bg]{block body alerted}{\vskip-.25ex}{\leavevmode\vskip-\dimexpr.75ex}
2587 }
2588
2589 \defbeamertemplate*{block example begin}{default}
2590 {
2591 \par\vskip\medskipamount%
2592 \begin{beamercolorbox}[colsep*=.75ex]{block title example}
2593 \usebeamerfont*{block title example}\insertblocktitle%
2594 \end{beamercolorbox}%
2595 {\parskip0pt\par}%
2596 \ifbeamercolorempy[bg]{block title example}
2597 {}
2598 {\ifbeamercolorempy[bg]{block body example}{\nointerlineskip\vskip-0.5pt}}%
2599 \usebeamerfont{block body example}%
2600 \begin{beamercolorbox}[colsep*=.75ex,vmode]{block body example}%
2601 \ifbeamercolorempy[bg]{block body example}{\vskip-.25ex}{\leavevmode\vskip-\dimexpr.75ex}
2602 }
2603
2604 \bidi@csundef{beamer@@tmpop@abstract begin@default}
2605
2606 \defbeamertemplate*{abstract begin}{default}
2607 {\beamercolorbox[vmode]{abstract}\bidi@beamer@leftskip2em\bidi@beamer@rightskip2em plus 1fil
2608

```

## 23 File beamerinnerthemecircles-xetex-bidi.def

```

2609 \ProvidesFile{beamerinnerthemecircles-xetex-bidi.def}[2022/06/06 v0.1 bidi adaptations for b
2610 \setbeamertemplate{sections/subsections in toc}[circle]
2611

```

## 24 File beamerinnerthemefocus-xetex-bidi.def

```

2612 \ProvidesFile{beamerinnerthemefocus-xetex-bidi.def}[2022/06/13 v0.1 bidi adaptations for bea
2613 \setbeamertemplate{section in toc}[square]
2614 \setbeamertemplate{subsection in toc}[square]
2615
2616 \setbeamertemplate{itemize items}[square]
2617 \setbeamertemplate{itemize subitem}[triangle]
2618
2619 \bidi@csundef{beamer@@tmpop@title page@focus}
2620
2621 \defbeamertemplate*{title page}{focus}{%
2622 {%
2623 \usebeamercolor{frametitle}\colorlet{focus@@temp}{bg}%
2624 \begin{tikzpicture}[overlay, remember picture]
2625 \fill[color=focus@@temp] (current page.north west) rectangle ([shift = {(0, -0.4}
2626 \end{tikzpicture}
2627 }
2628
2629 \vspace{-1.65\baselineskip}
2630 \begin{minipage}[b] [0.35\paperheight]{\textwidth}

```



```

2631         \vspace{\baselineskip}
2632         \usebeamerfont{title}
2633         \usebeamercolor[fg]{frametitle}
2634         \inserttitle
2635     \end{minipage}
2636
2637     \begin{minipage}[t][0.1\paperheight]{\textwidth}
2638         \usebeamerfont{subtitle}
2639         \usebeamercolor[fg]{frametitle}
2640         \insertsubtitle
2641     \end{minipage}
2642
2643     % Set the title graphic in a zero-height box, so that
2644     % the position of other elements is not affected.
2645     {\vfuzz=9999pt\vbox to 0pt {
2646         \if@RTL
2647             \raggedright
2648         \else
2649             \raggedleft
2650         \fi
2651         \inserttitlegraphic
2652     }}
2653
2654     \begin{minipage}[t]{\textwidth}
2655         \usebeamerfont{author}
2656         \insertauthor
2657     \end{minipage}
2658
2659     \vspace*{\baselineskip}
2660     \begin{minipage}[t]{\textwidth}
2661         \usebeamerfont{institute}
2662         \insertinstitute
2663     \end{minipage}
2664
2665     \vspace*{\baselineskip}
2666     \begin{minipage}[t]{\textwidth}
2667         \usebeamerfont{date}
2668         \insertdate
2669     \end{minipage}
2670
2671     \vspace*{0pt plus 100fill}
2672
2673     \addtocounter{framenum}{-1}
2674     \addtocounter{realframenum}{-1}
2675 }
2676
2677
2678

```

## 25 File beamerinnerthemeinmargin-xetex-bidi.def

```

2679 \ProvidesFile{beamerinnerthemeinmargin-xetex-bidi.def}[2022/06/09 v0.1 bidi adaptations for
2680 \AtBeginDocument{%
2681     \setbeamsize{sidebar width left=.25\paperwidth}%

```



```

2682 }
2683
2684 \bidi@csundef{beamer@@tmpop@section in toc@inmargin}
2685
2686 \bidi@csundef{beamer@@tmpop@title page@inmargin}
2687
2688 \bidi@csundef{beamer@@tmpop@block begin@inmargin}
2689
2690 \bidi@csundef{beamer@@tmpop@block end@inmargin}
2691
2692 \bidi@csundef{beamer@@tmpop@block alerted begin@inmargin}
2693
2694 \bidi@csundef{beamer@@tmpop@block alerted end@inmargin}
2695
2696 \bidi@csundef{beamer@@tmpop@block example begin@inmargin}
2697
2698 \bidi@csundef{beamer@@tmpop@block example end@inmargin}
2699
2700 \defbeamertemplate*{section in toc}{inmargin}
2701 {\leavevmode
2702   \beamer@putleft{\usebeamercolor[fg]{section in toc}\inserttocsection}\strut}{2.5ex}}
2703
2704 \defbeamertemplate*{title page}{inmargin}
2705 {
2706   \begin{block}{\inserttitleindicator}
2707     \bgroup\usebeamercolor[fg]{title}\usebeamerfont{title}\inserttitle\egroup\par
2708     \usebeamercolor[fg]{subtitle}\usebeamerfont{subtitle}\insertsubtitle
2709   \end{block}
2710   \vfill
2711   \ifx\insertauthor\@empty
2712   \else
2713     \begin{block}{\insertauthorindicator}
2714       \bgroup\usebeamercolor[fg]{author}\usebeamerfont{author}\insertauthor\egroup\par
2715     \end{block}
2716   \fi
2717   \ifx\insertinstitute\@empty
2718   \else
2719     \begin{block}{\insertinstituteindicator}
2720       \bgroup\usebeamercolor[fg]{institute}\usebeamerfont{institute}\insertinstitute\egroup\par
2721     \end{block}
2722   \fi
2723   \ifx\insertdate\@empty
2724   \else
2725     \begin{block}{\insertdateindicator}
2726       \bgroup\usebeamercolor[fg]{date}\usebeamerfont{date}\insertdate\egroup\par
2727     \end{block}
2728   \fi
2729 }
2730
2731 \defbeamertemplate*{block begin}{inmargin}
2732 {
2733   \par\vskip\medskipamount%
2734   \leavevmode%
2735   \beamer@putleft{\normalfont{\usebeamercolor[fg]{block title}\usebeamerfont*{block title}\i

```



```

2736 \beginL\beamer@putright
2737 %\usebeamercolor[fg]{block body}% to be done!
2738 }
2739
2740 \defbeamertemplate*{block end}{inmargin}
2741 {\endbeamer@putright\endL\vskip\smallskipamount}
2742
2743 \defbeamertemplate*{block alerted begin}{inmargin}
2744 {
2745   \par\vskip\medskipamount%
2746   \leavevmode%
2747   \beamer@putleft{\normalfont{\usebeamercolor[fg]{block title alerted}}\usebeamerfont*{block
2748   \beginL\beamer@putright
2749   %\usebeamercolor[fg]{block body alerted}% to be done!
2750 }
2751
2752 \defbeamertemplate*{block alerted end}{inmargin}
2753 {\endbeamer@putright\endL\vskip\smallskipamount}
2754
2755 \defbeamertemplate*{block example begin}{inmargin}
2756 {
2757   \par\vskip\medskipamount%
2758   \leavevmode%
2759   \beamer@putleft{\normalfont{\usebeamercolor[fg]{block title example}}\usebeamerfont*{block
2760   \beginL\beamer@putright
2761   %\usebeamercolor[fg]{block body example}% to be done
2762 }
2763
2764 \defbeamertemplate*{block example end}{inmargin}
2765 {\endbeamer@putright\endL\vskip\smallskipamount}
2766
2767 \bidi@AfterFile{beamerinnerthememetropolis-xetex-bidi.def}{%
2768   \setbeamertemplate{section in toc}[inmargin]%
2769   \setbeamertemplate{subsection in toc}[inmargin]%
2770   \setbeamertemplate{subsubsection in toc}[inmargin]%
2771 }
2772
2773

```

## 26 File beamerinnerthememetropolis-xetex-bidi.def

```

2774 \ProvidesFile{beamerinnerthememetropolis-xetex-bidi.def}[2022/06/13 v0.1 bidi adaptations fo
2775 \setbeamertemplate{title}{
2776   \bidi@beamer@ragged%
2777   \linespread{1.0}%
2778   \inserttitle%
2779   \par%
2780   \vspace*{0.5em}
2781 }
2782
2783 \setbeamertemplate{subtitle}{
2784   \bidi@beamer@ragged%
2785   \insertsubtitle%
2786   \par%

```



```

2787 \vspace*{0.5em}
2788 }
2789
2790 \bidi@csundef{beamer@@tmpop@section page@progressbar}
2791
2792 \defbeamertemplate{section page}{progressbar}{
2793   \centering
2794   \begin{minipage}{22em}
2795     \bidi@beamer@ragged
2796     \usebeamercolor{fg}{section title}
2797     \usebeamerfont{section title}
2798     \insertsectionhead\[-1ex]
2799     \usebeamertemplate*{progress bar in section page}
2800     \par
2801     \ifx\insertsubsectionhead\@empty\else%
2802       \usebeamercolor{fg}{subsection title}%
2803       \usebeamerfont{subsection title}%
2804       \insertsubsectionhead
2805     \fi
2806   \end{minipage}
2807   \par
2808   \vspace{\baselineskip}
2809 }
2810
2811 \setbeamertemplate{progress bar in section page}{
2812   \setlength{\metropolis@progressonsectionpage}{%
2813     \textwidth * \ratio{\insertframenumber pt}{\inserttotalframenumber pt}}%
2814   }%
2815   \begin{tikzpicture}
2816     \fill[bg] (0,0) rectangle (\textwidth, \metropolis@progressonsectionpage\linewidth);
2817   \if@RTLmain
2818     \fill[fg] (\textwidth-\metropolis@progressonsectionpage,0) rectangle (\textwidth, \metropolis@progressonsectionpage\linewidth);
2819   \else
2820     \fill[fg] (0,0) rectangle (\metropolis@progressonsectionpage, \metropolis@progressonsectionpage\linewidth);
2821   \fi
2822   \end{tikzpicture}%
2823 }
2824
2825 \renewcommand{\metropolis@block}[1]{
2826   \par\vskip\medskipamount%
2827   \setlength{\parskip}{0pt}
2828   \ifbeamercoloreempty[bg]{block title#1}{%
2829     \if@RTL
2830       \begin{beamercolorbox}[leftskip=0pt plus 4em]{block title#1}%
2831     \else
2832       \begin{beamercolorbox}[rightskip=0pt plus 4em]{block title#1}%
2833     \fi
2834   }{%
2835     \ifbeamercoloreempty[bg]{block title}{%
2836       \if@RTL
2837         \begin{beamercolorbox}[leftskip=0pt plus 4em]{block title#1}%
2838       \else
2839         \begin{beamercolorbox}[rightskip=0pt plus 4em]{block title#1}%
2840       \fi

```



```

2841 }%
2842 {%
2843 \if@RTL
2844 \begin{beamercolorbox}[
2845     sep=\dimexpr\metropolis@blocksep-\metropolis@blockadjust\relax,
2846     rightskip=\metropolis@blockadjust,
2847     leftskip=\dimexpr\metropolis@blockadjust plus 4em\relax
2848 ]{block title#1}%
2849 \else
2850 \begin{beamercolorbox}[
2851     sep=\dimexpr\metropolis@blocksep-\metropolis@blockadjust\relax,
2852     leftskip=\metropolis@blockadjust,
2853     rightskip=\dimexpr\metropolis@blockadjust plus 4em\relax
2854 ]{block title#1}%
2855 \fi
2856 }}%
2857 \usebeamerfont*{block title#1}%
2858 \metropolis@strut%
2859 \insertblocktitle%
2860 \metropolis@strut%
2861 \end{beamercolorbox}%
2862 \nointerlineskip%
2863 \ifbeamercoloreempty[bg]{block body#1}{%
2864     \begin{beamercolorbox}[vmode]{block body#1}}{
2865     \ifbeamercoloreempty[bg]{block body}{%
2866         \begin{beamercolorbox}[vmode]{block body#1}%
2867     }{%
2868         \begin{beamercolorbox}[sep=\metropolis@blocksep, vmode]{block body#1}%
2869         \vspace{-\metropolis@parskip}
2870     }}%
2871     \usebeamerfont{block body#1}%
2872     \setlength{\parskip}{\metropolis@parskip}%
2873 }
2874
2875
2876 \setbeamertemplate{footnote}{%
2877     \parindent 0em\noindent%
2878     \bidi@beamer@ragged
2879     \usebeamercolor{footnote}\hbox to 0.8em{\hfil\insertfootnotemark}\insertfootnotetext\par%
2880 }
2881
2882 \setbeamertemplate{RTLfootnote}{%
2883     \parindent 0em\noindent%
2884     \raggedleft
2885     \usebeamercolor{footnote}\hbox to 0.8em{\hfil\insertfootnotemark}\insertfootnotetext\par%
2886 }
2887
2888 \setbeamertemplate{LTRfootnote}{%
2889     \parindent 0em\noindent%
2890     \raggedright
2891     \usebeamercolor{footnote}\hbox to 0.8em{\hfil\insertfootnotemark}\insertfootnotetext\par%
2892 }
2893
2894 \setbeamertemplate{itemize items}{\textbullet}

```



```

2895
2896 \setbeamertemplate{section page}[progressbar]
2897
2898

```

## 27 File beamerinnerthemerectangles-xetex-bidi.def

```

2899 \ProvidesFile{beamerinnerthemerectangles-xetex-bidi.def}[2022/06/06 v0.1 bidi adaptations fo
2900 \setbeamertemplate{sections/subsections in toc}[square]
2901 \setbeamertemplate{items}[square]
2902

```

## 28 File beamerinnerthemerounded-xetex-bidi.def

```

2903 \ProvidesFile{beamerinnerthemerounded-xetex-bidi.def}[2022/06/01 v0.1 bidi adaptations for b
2904 \setbeamertemplate{blocks}[rounded] [shadow=\beamer@themrounded@shadow]
2905 \setbeamertemplate{items}[ball]
2906 \setbeamertemplate{sections/subsections in toc}[ball]
2907

```

## 29 File beamerouterthemedefault-xetex-bidi.def

```

2908 \ProvidesFile{beamerouterthemedefault-xetex-bidi.def}[2022/06/07 v0.1 bidi adaptations for b
2909 \def\beamer@fteleft{\if@RTLmain\vskip0.35cm\advance\leftskip by 1.7cm\advance\rightskip by1.
2910
2911 \def\beamer@fteright{\if@RTLmain\else\vskip0.35cm\advance\leftskip by 1.7cm\advance\rightski
2912
2913 \AtBeginDocument{%
2914   \if@RTLmain
2915     \setbeamertemplate{frametitle}[default] [right]
2916   \fi
2917 }
2918
2919

```

## 30 File beamerouterthemefocus-xetex-bidi.def

```

2920 \ProvidesFile{beamerouterthemefocus-xetex-bidi.def}[2022/06/13 v0.1 bidi adaptations for bea
2921 \bidi@undef\beamer@tmpop@footline@progressbar
2922
2923 \defbeamertemplate*{footline}{progressbar}{%
2924   % If not appendix.
2925   \ifnum\mainend<0% From package appendixnumberbeamer.
2926     %
2927     \settowidth{\focus@pbar@leftoffset}{1}%
2928     \addtolength{\focus@pbar@leftoffset}{1.5em}%
2929     %
2930     \ifx\beamer@focus@totalframenumbeering\no%
2931       \settowidth{\focus@pbar@rightoffset}{}%
2932       \addtolength{\focus@pbar@rightoffset}{0.5em}%
2933     \else%
2934       \settowidth{\focus@pbar@rightoffset}{\inserttotalframenumbeering}%
2935       \addtolength{\focus@pbar@rightoffset}{1.5em}%
2936     \fi%

```



```

2937 %
2938 % If not title page.
2939 \ifnum\value{realframenumbers}>0%
2940 \ifnum\value{framenumbers}<\inserttotalframenumbers%
2941 \begin{tikzpicture}[inner xsep=0.5em, inner ysep=0.5ex]\usebeamerfont{footline}
2942 \pgfmathsetmacro{\focus@pbar@progress}%
2943 {(\paperwidth-\focus@pbar@leftoffset-\focus@pbar@rightoffset)*(\inserttotalframenumbers-\value{framenumbers})/\value{realframenumbers}}
2944
2945 \clip (0,0) rectangle ++(\paperwidth,\the\focus@pbar@height);
2946 \if@RTLmain
2947 \fill[footline.bg] (\paperwidth,0) rectangle ++(-\the\focus@pbar@leftoffset,\the\focus@pbar@height);
2948 \fill[footline.bg] (\paperwidth-\the\focus@pbar@leftoffset,0) rectangle ++(0,\the\focus@pbar@height) node[anchor=west,
2949 ++(0,{0.5*\the\focus@pbar@height})]{};
2950 \else
2951 \fill[footline.bg] (0,0) rectangle ++(\the\focus@pbar@leftoffset,\the\focus@pbar@height);
2952 \fill[footline.bg] (\the\focus@pbar@leftoffset,0) rectangle ++(\the\focus@pbar@rightoffset,\the\focus@pbar@height) node[anchor=east,
2953 ++(0,{0.5*\the\focus@pbar@height})]{};
2954 \fi
2955 \ifx\beamer@focus@totalframenumbers\no%
2956 \else%
2957 \if@RTLmain
2958 \fill[footline.bg] (0,0) rectangle ++(\the\focus@pbar@rightoffset,\the\focus@pbar@height) node[anchor=east,
2959 ++(0,{0.5*\the\focus@pbar@height})]{};
2960 \else
2961 \fill[footline.bg] (\paperwidth,0) rectangle ++(-\the\focus@pbar@rightoffset,\the\focus@pbar@height) node[anchor=west,
2962 ++(0,{0.5*\the\focus@pbar@height})]{};
2963 \fi
2964 \fi%
2965 \end{tikzpicture}%
2966 \else%
2967 \begin{tikzpicture}[inner xsep=0.5em, inner ysep=0.5ex]
2968 \clip (0,0) rectangle ++(\paperwidth,\the\focus@pbar@height);
2969 \fill[footline.bg] (0,0) rectangle ++(\paperwidth,\the\focus@pbar@height);
2970 \if@RTLmain
2971 \node[anchor=west, footline.fg] at ({\the\focus@pbar@rightoffset},{0.5*\the\focus@pbar@height}){};
2972 \else
2973 \node[anchor=east, footline.fg] at ({\paperwidth-\the\focus@pbar@rightoffset},{0.5*\the\focus@pbar@height}){};
2974 \fi
2975 \ifx\beamer@focus@totalframenumbers\no%
2976 \else%
2977 \if@RTLmain
2978 \node[footline.fg] at ({\the\focus@pbar@rightoffset},{0.5*\the\focus@pbar@height}){};
2979 \node[anchor=east, footline.fg] at ({\the\focus@pbar@rightoffset},{0.5*\the\focus@pbar@height}){};
2980 \else
2981 \node[footline.fg] at ({\paperwidth-\the\focus@pbar@rightoffset},{0.5*\the\focus@pbar@height}){};
2982 \node[anchor=west, footline.fg] at ({\paperwidth-\the\focus@pbar@rightoffset},{0.5*\the\focus@pbar@height}){};
2983 \fi
2984 \fi%
2985 \end{tikzpicture}%
2986 \fi%
2987 \fi%
2988 \fi%
2989 }
2990

```



2991

### 31 File beamerouterthemeinfolines-xetex-bidi.def

```
2992 \ProvidesFile{beamerouterthemeinfolines-xetex-bidi.def}[2022/06/09 v0.2 bidi adaptations for
2993 \bidi@csundef{beamer@@tmpop@footline@infolines theme}
2994
2995 \defbeamertemplate*{footline}{infolines theme}
2996 {%
2997   \leavevmode%
2998   \hbox{%
2999     \begin{beamercolorbox}[wd=.333333\paperwidth,ht=2.25ex,dp=1ex,center]{author in head/foot}%
3000     \usebeamerfont{author in head/foot}\insertshortauthor\expandafter\ifblank\expandafter{\b
3001     \end{beamercolorbox}%
3002     \begin{beamercolorbox}[wd=.333333\paperwidth,ht=2.25ex,dp=1ex,center]{title in head/foot}%
3003     \usebeamerfont{title in head/foot}\insertshorttitle
3004     \end{beamercolorbox}%
3005     \begin{beamercolorbox}[wd=.333333\paperwidth,ht=2.25ex,dp=1ex,leftskip=2ex,rightskip=2ex,s
3006     \hfill%
3007     \usebeamerfont{date in head/foot}%
3008     \insertshortdate{}%
3009     \hfill%
3010     \bgroup
3011     \usebeamercolor[fg]{page number in head/foot}%
3012     \usebeamerfont{page number in head/foot}%
3013     \usebeamertemplate{page number in head/foot}%
3014     \egroup
3015     \end{beamercolorbox}}}%
3016   \vskip0pt%
3017 }
3018
3019 \bidi@csundef{beamer@@tmpop@headline@infolines theme}
3020
3021 \defbeamertemplate*{headline}{infolines theme}
3022 {%
3023   \leavevmode%
3024   \hbox{%
3025     \if@RTL
3026     \begin{beamercolorbox}[wd=.5\paperwidth,ht=2.65ex,dp=1.5ex,left]{section in head/foot}%
3027     \else
3028     \begin{beamercolorbox}[wd=.5\paperwidth,ht=2.65ex,dp=1.5ex,right]{section in head/foot}%
3029     \fi
3030     \usebeamerfont{section in head/foot}\insertsectionhead\hspace*{2ex}
3031     \end{beamercolorbox}%
3032     \if@RTL
3033     \begin{beamercolorbox}[wd=.5\paperwidth,ht=2.65ex,dp=1.5ex,right]{subsection in head/foot}%
3034     \else
3035     \begin{beamercolorbox}[wd=.5\paperwidth,ht=2.65ex,dp=1.5ex,left]{subsection in head/foot}%
3036     \fi
3037     \usebeamerfont{subsection in head/foot}\hspace*{2ex}\insertsubsectionhead
3038     \end{beamercolorbox}}}%
3039   \vskip0pt%
3040 }
3041
```



```

3042 \bidi@AfterFile{beamerouterthememetroplit-xetex-bidi.def}{%
3043   \setbeamertemplate{footline}[infolines theme]%
3044 }
3045

```

## 32 File beamerouterthememetropolis-xetex-bidi.def

```

3046 \ProvidesFile{beamerouterthememetropolis-xetex-bidi.def}[2022/06/13 v0.1 bidi adaptations fo
3047 \setbeamertemplate{progress bar in head/foot}{
3048   \nointerlineskip
3049   \setlength{\metropolis@progressinheadfoot}{%
3050     \paperwidth * \ratio{\insertframenumber pt}{\inserttotalframenumber pt}}%
3051   }%
3052   \begin{beamercolorbox}[wd=\paperwidth]{progress bar in head/foot}
3053     \begin{tikzpicture}
3054       \fill[bg] (0,0) rectangle (\paperwidth, \metropolis@progressinheadfoot@linewidth);
3055     \if@RTLmain
3056       \fill[fg] (\paperwidth-\metropolis@progressinheadfoot,0) rectangle (\paperwidth, \metr
3057     \else
3058       \fill[fg] (0,0) rectangle (\metropolis@progressinheadfoot, \metropolis@progressinheadf
3059     \fi
3060     \end{tikzpicture}%
3061   \end{beamercolorbox}
3062 }
3063
3064 \AtBeginDocument{%
3065   \setbeamertemplate{frametitle}[plain]%
3066 }
3067
3068

```

## 33 File beamerouterthememiniframes-xetex-bidi.def

```

3069 \ProvidesFile{beamerouterthememiniframes-xetex-bidi.def}[2022/06/09 v0.1 bidi adaptations fo
3070 \bidi@csundef{beamer@tmpop@headline@miniframes theme}
3071
3072 \defbeamertemplate*{headline}{miniframes theme}
3073 {%
3074   \begin{beamercolorbox}[colsep=1.5pt]{upper separation line head}
3075   \end{beamercolorbox}
3076   \begin{beamercolorbox}{section in head/foot}
3077     \vskip2pt\if@RTL\beginR\fi\insertnavigation{\paperwidth}\if@RTL\endR\fi\vskip2pt
3078   \end{beamercolorbox}%
3079   \ifbeamer@theme@subsection%
3080     \begin{beamercolorbox}[colsep=1.5pt]{middle separation line head}
3081     \end{beamercolorbox}
3082     \if@RTL
3083     \begin{beamercolorbox}[ht=2.5ex,dp=1.125ex,%
3084       rightskip=.3cm,leftskip=.3cm plus1fil]{subsection in head/foot}
3085     \else
3086     \begin{beamercolorbox}[ht=2.5ex,dp=1.125ex,%
3087       leftskip=.3cm,rightskip=.3cm plus1fil]{subsection in head/foot}
3088     \fi
3089     \usebeamerfont{subsection in head/foot}\insertsubsectionhead

```



```

3090 \end{beamercolorbox}%
3091 \fi%
3092 \begin{beamercolorbox}[colsep=1.5pt]{lower separation line head}
3093 \end{beamercolorbox}
3094 }
3095
3096

```

## 34 File beamerouterthemesidebar-xetex-bidi.def

```

3097 \ProvidesFile{beamerouterthemesidebar-xetex-bidi.def}[2022/06/07 v0.2 bidi adaptations for b
3098 \bidi@csundef{beamer@tmpop@frametitle@sidebar theme}
3099
3100 \bidi@csundef{beamer@tmpop@headline@sidebar theme}
3101
3102 \bidi@csundef{beamer@tmpop@sidebar left@sidebar theme}
3103
3104 \bidi@csundef{beamer@tmpop@sidebar right@sidebar theme}
3105
3106 \ifdim\beamer@headheight>0pt
3107
3108 \defbeamertemplate*{frametitle}{sidebar theme}
3109 {%
3110 \nointerlineskip%
3111 \ifbeamer@plainframe%
3112 \hbox{\usebeamercolor[bg]{frametitle}%
3113 \@tempdima\paperwidth\advance\@tempdima-\beamer@sidebarwidth
3114 \hskip-\beamer@leftmargin\vrule height\beamer@headheight width\@tempdima\hskip-\bea
3115 \nointerlineskip%
3116 \fi%
3117 \vskip-\beamer@headheight%
3118 \vbox to \beamer@headheight{%
3119 \vfil
3120 \bidi@beamer@leftskip=-\beamer@leftmargin%
3121 \advance\bidi@beamer@leftskip by0.3cm%
3122 \bidi@beamer@rightskip=-\beamer@rightmargin%
3123 \advance\bidi@beamer@rightskip by0.3cm plus1fil%
3124 {\usebeamercolor[fg]{frametitle}\usebeamerfont{frametitle}\strut\insertframetitle\par}
3125 \ifx\insertframesubtitle\@empty\else%
3126 {\usebeamercolor[fg]{framesubtitle}\usebeamerfont{framesubtitle}\strut\insertframesu
3127 \fi%
3128 \vbox{}}%
3129 \vskip-1em%
3130 \vfil
3131 }%
3132 }
3133
3134 \AtBeginDocument{%
3135 \setbeamertemplate{frametitle}[sidebar theme]%
3136 }
3137
3138 \defbeamertemplate*{headline}{sidebar theme}
3139 {%
3140 \begin{beamercolorbox}[wd=\paperwidth]{frametitle}

```



```

3141 \ifx\beamer@sidebarside\beamer@leftttext%
3142 \else%
3143 \hfill%
3144 \fi%
3145 \ifdim\beamer@sidebarwidth>0pt%
3146 \bgroup
3147 \usebeamercolor[bg]{logo}%
3148 \if@RTLmain
3149 \else
3150 \vrule width\beamer@sidebarwidth height \beamer@headheight%
3151 \hskip-\beamer@sidebarwidth%
3152 \fi
3153 \hbox to \beamer@sidebarwidth{\hss\vbox to
3154 \beamer@headheight{\vss\hbox{\color{fg}\insertlogo}\vss}\hss}%
3155 \if@RTLmain
3156 \hskip-\beamer@sidebarwidth%
3157 \vrule width\beamer@sidebarwidth height \beamer@headheight%
3158 \fi
3159 \egroup
3160 \else%
3161 \vrule width0pt height \beamer@headheight%
3162 \fi%
3163 \end{beamercolorbox}
3164 }
3165 \fi
3166
3167 \def\beamer@sidebarformat#1#2#3{%
3168 \if@RTL
3169 \begin{beamercolorbox}[wd=\beamer@sidebarwidth,rightskip=#1,leftskip=1ex plus1fil,vmode]{#
3170 \else
3171 \begin{beamercolorbox}[wd=\beamer@sidebarwidth,leftskip=#1,rightskip=1ex plus1fil,vmode]{#
3172 \fi
3173 \vbox{}%
3174 #3\par%
3175 \vbox{}%
3176 \vskip-1.5ex%
3177 \end{beamercolorbox}
3178 }
3179
3180 \ifdim\beamer@sidebarwidth>0pt
3181
3182 \AtBeginDocument{%
3183 \setbeamersize{sidebar width \beamer@sidebarside=\beamer@sidebarwidth}%
3184 }
3185
3186 \defbeamertemplate*{sidebar \beamer@sidebarside}{sidebar theme}
3187 {
3188 \beamer@tempdim=\beamer@sidebarwidth%
3189 \advance\beamer@tempdim by -6pt%
3190 {\usebeamerfont{title in sidebar}%
3191 \vskip1.5em%
3192 \hskip3pt%
3193 \bgroup
3194 \usebeamercolor[fg]{title in sidebar}%

```



```

3195     \insertshorttitle[width=\beamer@tempdim,center,respectlinebreaks]\egroup\par%
3196     \vskip1.25em%
3197   }%
3198   {%
3199     \hskip3pt%
3200     \bgroup
3201     \usebeamercolor[fg]{author in sidebar}%
3202     \usebeamerfont{author in sidebar}%
3203     \insertshortauthor[width=\beamer@tempdim,center,respectlinebreaks]\egroup\par%
3204     \vskip1.25em%
3205   }%
3206   \insertverticalnavigation{\beamer@sidebarwidth}%
3207   \vfill
3208   \ifx\beamer@sidebarside\beamer@lefttext%
3209     \else%
3210       \usebeamercolor{normal text}%
3211       \llap{\usebeamertemplate***{navigation symbols}\hskip0.1cm}%
3212       \vskip2pt%
3213     \fi%
3214   }%
3215 \fi
3216

```

### 35 File beamerouterthemesplit-xetex-bidi.def

```

3217 \ProvidesFile{beamerouterthemesplit-xetex-bidi.def}[2022/06/09 v0.2 bidi adaptations for bea
3218 \bidi@csundef{beamer@tmpop@footline@split theme}
3219
3220 \defbeamertemplate*{footline}{split theme}
3221 {%
3222   \leavevmode%
3223   \hbox{\if@RTL\begin{beamercolorbox}[wd=.5\paperwidth,ht=2.5ex,dp=1.125ex,rightskip=.3cm pl
3224 \else
3225 \begin{beamercolorbox}[wd=.5\paperwidth,ht=2.5ex,dp=1.125ex,leftskip=.3cm plus1fill,rightski
3226 \fi
3227     \usebeamerfont{author in head/footer}\insertshortauthor
3228     \end{beamercolorbox}}%
3229   \if@RTL
3230     \begin{beamercolorbox}[wd=.5\paperwidth,ht=2.5ex,dp=1.125ex,rightskip=.3cm,leftskip=.3cm
3231 \else
3232     \begin{beamercolorbox}[wd=.5\paperwidth,ht=2.5ex,dp=1.125ex,leftskip=.3cm,rightskip=.3cm p
3233 \fi
3234     \usebeamerfont{title in head/footer}\insertshorttitle\nobreak\hfill\bgroup\usebeamercolor[
3235     \end{beamercolorbox}}}%
3236     \vskip0pt%
3237   }
3238
3239

```

### 36 File beamerouterthemeshadow-xetex-bidi.def

```

3240 \ProvidesFile{beamerouterthemeshadow-xetex-bidi.def}[2022/06/11 v0.3 bidi adaptations for be
3241 \pgfdeclarehorizontalshading[frametitle.bg,frametitle right.bg]{bidi@beamer@RTL@frametitlesh
3242   color(0pt)=(frametitle right.bg);

```



```

3243 color(\paperwidth)=(frametitle.bg)
3244 }
3245
3246 \newcommand*{\bidi@beamer@frametitleshade}{%
3247   \if@RTLmain
3248     \pgfuses shading{bidi@beamer@RTL@frametitleshade}%
3249   \else
3250     \pgfuses shading{beamer@frametitleshade}%
3251   \fi
3252 }
3253
3254 \bidi@csundef{beamer@@tmpop@frametitle@shadow theme}
3255
3256 \defbeamer@template*{frametitle}{shadow theme}
3257 {%
3258   \nointerlineskip%
3259   \vskip-2pt%
3260   \hbox{\leavevmode
3261     \advance\beamer@leftmargin by -12bp%
3262     \advance\beamer@rightmargin by -12bp%
3263     \beamer@tempdim=\textwidth%
3264     \advance\beamer@tempdim by \beamer@leftmargin%
3265     \advance\beamer@tempdim by \beamer@rightmargin%
3266     \hskip-\Gm@lmargin\hbox{%
3267       \setbox\beamer@tempbox=\hbox{\begin{minipage}[b]{\paperwidth}%
3268         \vbox{\vskip-.75ex%
3269           \bidi@beamer@leftskip0.3cm%
3270           \bidi@beamer@rightskip0.3cm plus1fil\leavevmode
3271           \bgroup\usebeamerfont{fg}{frametitle}\usebeamerfont{frametitle}\strut\insertframesubtitle%
3272           \ifx\insertframesubtitle\@empty\else%
3273             {\usebeamerfont*{framesubtitle}\usebeamerfont{fg}{framesubtitle}\insertframesubtitle}%
3274           \fi%
3275           \nointerlineskip
3276           \vbox{}%
3277           \end{minipage}}%
3278       \beamer@tempdim=\ht\beamer@tempbox%
3279       \advance\beamer@tempdim by 2pt%
3280       \begin{pgfpicture}{0pt}{0pt}{\paperwidth}{\beamer@tempdim}
3281         \begin{pgfscope}
3282           \pgfsetfillcolor{black}%
3283           \pgfpathrectangle{\pgfpoint{0pt}{-4pt}}{\pgfpoint{\paperwidth}{8pt}}%
3284           \pgfsetfading{beamer@topshadowmask}{}%
3285           \pgfusepath{fill}%
3286         \end{pgfscope}
3287         \begin{pgfscope}
3288           \usebeamerfont{frametitle right}%
3289           \pgfpathrectangle{\pgfpointorigin}{\pgfpoint{\paperwidth}{\beamer@tempdim}}%
3290           \pgfusepath{clip}%
3291           \pgftext[left,base]{\bidi@beamer@frametitleshade}%
3292         \end{pgfscope}
3293       \end{pgfpicture}
3294       \hskip-\paperwidth%
3295       \box\beamer@tempbox%
3296     }%

```



```

3297 \hskip-\Gm@rmargin%
3298 }%
3299 \vskip-2pt
3300 }
3301
3302 \AtBeginDocument{%
3303 \setbeamertemplate{frametitle}[shadow theme]%
3304 }
3305
3306

```

## 37 File beamerouterthemesmoothbars-xetex-bidi.def

```

3307 \ProvidesFile{beamerouterthemesmoothbars-xetex-bidi.def}[2022/06/09 v0.1 bidi adaptations fo
3308 \bidi\csundef{beamer@tmpop@headline@smoothbars theme}
3309
3310 \bidi\csundef{beamer@tmpop@frametitle@smoothbars theme}
3311
3312 \defbeamertemplate*{headline}{smoothbars theme}
3313 {%
3314 \pgfuses shading{beamer@barshade}%
3315 \vskip-0.05ex%
3316 \begin{beamer colorbox}[wd=\paperwidth,ht=1ex,dp=0ex]{empty}
3317 \begin{pgf picture}
3318 \begin{pgf scope}%
3319 \ifbeamer@sb@subsection%
3320 \pgfsetfillcolor{subsection in head/foot.bg}%
3321 \else%
3322 \pgfsetfillcolor{section in head/foot.bg}%
3323 \fi%
3324 \pgfpathrectangle{\pgfpoint{-0.5\paperwidth}{-0.5ex}}{\pgfpoint{\paperwidth}{1ex}}%
3325 \pgfsetfading{beamer@belowframetitlemask}{}%
3326 \pgfusepath{fill}%
3327 \end{pgf scope}%
3328 \end{pgf picture}%
3329 \end{beamer colorbox}%
3330 \ifbeamer@sb@subsection%
3331 \vskip-9.75ex%
3332 \else%
3333 \vskip-6.85ex%
3334 \fi%
3335 \begin{beamer colorbox}[ignorebg,ht=2.25ex,dp=3.75ex]{section in head/foot}
3336 \insertnavigation{\paperwidth}
3337 \end{beamer colorbox}%
3338 \ifbeamer@sb@subsection%
3339 \if@RTL
3340 \begin{beamer colorbox}[ignorebg,ht=2.125ex,dp=1.125ex,%
3341 rightskip=.3cm,leftskip=.3cm plus1fil]{subsection in head/foot}
3342 \else
3343 \begin{beamer colorbox}[ignorebg,ht=2.125ex,dp=1.125ex,%
3344 leftskip=.3cm,rightskip=.3cm plus1fil]{subsection in head/foot}
3345 \fi
3346 \usebeamerfont{subsection in head/foot}\insertsubsectionhead
3347 \end{beamer colorbox}%

```



```

3348 \fi%
3349 }%
3350
3351 \defbeamertemplate*{frametitle}{smoothbars theme}
3352 {%
3353 \nointerlineskip%
3354 \vskip-0.19ex%
3355 \usebeamerfont{headline}%
3356 \begin{beamercolorbox}[wd=\paperwidth,ht=1ex,dp=1ex,vmode]{empty}
3357 \pgfuses shading{beamer@aboveframetitle}%
3358 \end{beamercolorbox}%
3359 \vskip-1ex%
3360 \nointerlineskip%
3361 \if@RTL
3362 \begin{beamercolorbox}[wd=\paperwidth,rightskip=.3cm,leftskip=.3cm plus1fil,vmode]{frameti
3363 \else
3364 \begin{beamercolorbox}[wd=\paperwidth,leftskip=.3cm,rightskip=.3cm plus1fil,vmode]{frameti
3365 \fi
3366 \vskip0.5ex%
3367 \usebeamerfont*{frametitle}\strut\insertframetitle%
3368 \ifx\insertframesubtitle\@empty%
3369 \strut\par%
3370 \else
3371 \par{\usebeamerfont*{framesubtitle}{\usebeamercolor[fg]{framesubtitle}\strut\insertf
3372 \fi}%
3373 \usebeamerfont{headline}%
3374 \vskip0.05ex%
3375 \end{beamercolorbox}%
3376 \nointerlineskip%
3377 \vskip-0.05ex%
3378 \begin{beamercolorbox}[wd=\paperwidth,ht=1ex,dp=0ex]{empty}
3379 \begin{pgfpicture}
3380 \begin{pgfscope}%
3381 \pgfsetfillcolor{frametitle.bg}%
3382 \pgfpathrectangle{\pgfpoint{-.5\paperwidth}{-.5ex}}{\pgfpoint{\paperwidth}{1ex}}%
3383 \pgfsetfading{beamer@belowframetitlemask}{}%
3384 \pgfusepath{fill}%
3385 \end{pgfscope}%
3386 \end{pgfpicture}%
3387 \end{beamercolorbox}%
3388 }
3389
3390 \AtBeginDocument{%
3391 \setbeamertemplate{frametitle}[smoothbars theme]%
3392 }
3393
3394

```

## 38 File beamrouterthemessmoothtree-xetex-bidi.def

```

3395 \ProvidesFile{beamrouterthemessmoothtree-xetex-bidi.def}[2022/06/09 v0.1 bidi adaptations fo
3396 \bidi\csundef{beamer@tmpop@headline@smoothtree theme}
3397
3398 \bidi\csundef{beamer@tmpop@frametitle@smoothtree theme}

```



```

3399
3400 \defbeamertheme*{headline}{smoothtree theme}
3401 {%
3402   \pgfuses shading{beamer@treeshade}%
3403   \vskip-0.05ex%
3404   \begin{beamer colorbox}[wd=\paperwidth,ht=1ex,dp=0ex]{empty}
3405   \begin{pgf picture}
3406     \begin{pgf scope}%
3407       \pgfset fillcolor{subsection in head/foot.bg}%
3408       \pgfpath rectangle{\pgf point{-0.5\paperwidth}{-0.5ex}}{\pgf point{\paperwidth}{1ex}}%
3409       \pgfset fading{beamer@belowframetitlemask}{}%
3410       \pgfuse path{fill}%
3411     \end{pgf scope}%
3412   \end{pgf picture}%
3413   \end{beamer colorbox}%
3414   \vskip-9.15ex%
3415   \if@RTL
3416     \begin{beamer colorbox}[wd=\paperwidth,ht=1.125ex,dp=1.125ex,ignorebg,%
3417       rightskip=.3cm,leftskip=.3cm plus1fil]{title in head/foot}
3418   \else
3419     \begin{beamer colorbox}[wd=\paperwidth,ht=1.125ex,dp=1.125ex,ignorebg,%
3420       leftskip=.3cm,rightskip=.3cm plus1fil]{title in head/foot}
3421     \fi
3422     \usebeamerfont{title in head/foot}\insertshorttitle
3423   \end{beamer colorbox}
3424   \if@RTL
3425     \begin{beamer colorbox}[wd=\paperwidth,ht=2.125ex,dp=1.125ex,ignorebg,%
3426       rightskip=.3cm,leftskip=.3cm plus1fil]{section in head/foot}
3427   \else
3428     \begin{beamer colorbox}[wd=\paperwidth,ht=2.125ex,dp=1.125ex,ignorebg,%
3429       leftskip=.3cm,rightskip=.3cm plus1fil]{section in head/foot}
3430     \fi
3431     \usebeamerfont{section in head/foot}%
3432     \hskip6pt\insertsectionhead
3433   \end{beamer colorbox}
3434   \if@RTL
3435     \begin{beamer colorbox}[wd=\paperwidth,ht=2.125ex,dp=1.125ex,ignorebg,%
3436       rightskip=.3cm,leftskip=.3cm plus1fil]{subsection in head/foot}
3437   \else
3438     \begin{beamer colorbox}[wd=\paperwidth,ht=2.125ex,dp=1.125ex,ignorebg,%
3439       leftskip=.3cm,rightskip=.3cm plus1fil]{subsection in head/foot}
3440     \fi
3441     \usebeamerfont{subsection in head/foot}%
3442     \hskip12pt\insertsubsectionhead
3443   \end{beamer colorbox}
3444   \vskip-0.4ex%
3445 }
3446
3447 \defbeamertheme*{frametitle}{smoothtree theme}
3448 {%
3449   \nointerlineskip%
3450   \vskip-0.05ex%
3451   \usebeamerfont{headline}%
3452   \begin{beamer colorbox}[wd=\paperwidth,ht=0.85ex,dp=0ex]{empty}

```



```

3453 \pgfuses shading{beamer@aboveframetitle}%
3454 \end{beamer colorbox}
3455 \nointerlineskip%
3456 \if@RTL
3457 \begin{beamer colorbox}[wd=\paperwidth,rightskip=.935cm,leftskip=.3cm plus1fil]{frametitle}
3458 \else
3459 \begin{beamer colorbox}[wd=\paperwidth,leftskip=.935cm,rightskip=.3cm plus1fil]{frametitle}
3460 \fi
3461 \vskip-1.2ex%
3462 \usebeamerfont*{frametitle}\strut\insertframetitle%
3463 \ifx\insertframesubtitle\@empty%
3464 \strut\par%
3465 \else
3466 \par{\usebeamerfont*{framesubtitle}{\usebeamer color[fg]{framesubtitle}\strut\insertframesubtitle}%
3467 \fi}%
3468 \usebeamerfont{headline}%
3469 \end{beamer colorbox}%
3470 \nointerlineskip
3471 \vskip-0.2ex%
3472 \begin{beamer colorbox}[wd=\paperwidth,ht=1ex,dp=0ex]{empty}
3473 \begin{pgf picture}
3474 \begin{pgf scope}%
3475 \pgfsetfill color{frametitle.bg}%
3476 \pgfpath rectangle{\pgf point{- .5\paperwidth}{-0.5ex}}{\pgf point{\paperwidth}{1ex}}%
3477 \pgfsetfading{beamer@belowframetitle mask}{}%
3478 \pgfusepath{fill}%
3479 \end{pgf scope}%
3480 \end{pgf picture}%
3481 \end{beamer colorbox}%
3482 }
3483
3484
3485 \AtBeginDocument{%
3486 \setbeamertemplate{frametitle}[smoothtree theme]%
3487 }
3488
3489

```

### 39 File beamerouterthemetree-xetex-bidi.def

```

3490 \ProvidesFile{beamerouterthemetree-xetex-bidi.def}[2022/06/09 v0.1 bidi adaptations for beamer]
3491 \bidi csundef{beamer@tmpop@headline@tree theme}
3492
3493 \defbeamertemplate*{headline}{tree theme}
3494 {%
3495 \begin{beamer colorbox}[wd=\paperwidth,colsep=1.5pt]{upper separation line head}
3496 \end{beamer colorbox}
3497 \if@RTL
3498 \begin{beamer colorbox}[wd=\paperwidth,ht=2.5ex,dp=1.125ex,%
3499 rightskip=.3cm,leftskip=.3cm plus1fil]{title in head/foot}
3500 \else
3501 \begin{beamer colorbox}[wd=\paperwidth,ht=2.5ex,dp=1.125ex,%
3502 leftskip=.3cm,rightskip=.3cm plus1fil]{title in head/foot}
3503 \fi

```



```

3504     \usebeamerfont{title in head/foot}\insertshorttitle
3505 \end{beamercolorbox}
3506 \if@RTL
3507 \begin{beamercolorbox}[wd=\paperwidth,ht=2.5ex,dp=1.125ex,%
3508     rightskip=.3cm,leftskip=.3cm plus1fil]{section in head/foot}
3509 \else
3510 \begin{beamercolorbox}[wd=\paperwidth,ht=2.5ex,dp=1.125ex,%
3511     leftskip=.3cm,rightskip=.3cm plus1fil]{section in head/foot}
3512 \fi
3513     \usebeamerfont{section in head/foot}%
3514     \ifbeamer@tree@showhooks
3515         \setbox\beamer@tempbox=\hbox{\insertsectionhead}%
3516         \ifdim\wd\beamer@tempbox>1pt%
3517             \hskip2pt\raise1.9pt\hbox{\vrule width0.4pt height1.875ex\vrule width 5pt height0.4pt}
3518             \hskip1pt%
3519         \fi%
3520     \else%
3521         \hskip6pt%
3522     \fi%
3523     \insertsectionhead
3524 \end{beamercolorbox}
3525 \if@RTL
3526 \begin{beamercolorbox}[wd=\paperwidth,ht=2.5ex,dp=1.125ex,%
3527     rightskip=.3cm,leftskip=.3cm plus1fil]{subsection in head/foot}
3528 \else
3529 \begin{beamercolorbox}[wd=\paperwidth,ht=2.5ex,dp=1.125ex,%
3530     leftskip=.3cm,rightskip=.3cm plus1fil]{subsection in head/foot}
3531 \fi
3532     \usebeamerfont{subsection in head/foot}%
3533     \ifbeamer@tree@showhooks
3534         \setbox\beamer@tempbox=\hbox{\insertsubsectionhead}%
3535         \ifdim\wd\beamer@tempbox>1pt%
3536             \hskip9.4pt\raise1.9pt\hbox{\vrule width0.4pt height1.875ex\vrule width 5pt height0.4pt}
3537             \hskip1pt%
3538         \fi%
3539     \else%
3540         \hskip12pt%
3541     \fi%
3542     \insertsubsectionhead
3543 \end{beamercolorbox}
3544 \begin{beamercolorbox}[wd=\paperwidth,colsep=1.5pt]{lower separation line head}
3545 \end{beamercolorbox}
3546 }
3547
3548

```

## 40 File beamerthemeHannover-xetex-bidi.def

```

3549 \ProvidesFile{beamerthemeHannover-xetex-bidi.def}[2022/06/07 v0.1 bidi adaptations for beamer]
3550 \AtBeginDocument{%
3551     \if@RTLmain
3552         \setbeamertemplate{frametitle}[default][left]%
3553     \else
3554         \setbeamertemplate{frametitle}[default][right]%

```



```

3555 \fi
3556 }
3557
3558

```

## 41 File beamerthemeSingapore-xetex-bidi.def

```

3559 \ProvidesFile{beamerthemeSingapore-xetex-bidi.def}[2022/06/09 v0.1 bidi adaptations for beam
3560 \addtoheadtemplate{\pgfuses shading{beamer@headfade}\vskip-1.25cm}{}}
3561
3562 \beamertemplatedotitem
3563
3564 \AtBeginDocument{%
3565 \setbeamertemplate{frametitle}[default][center]%
3566 }
3567
3568

```

## 42 File bidi.sty

```

3569 \NeedsTeXFormat{LaTeX2e}
3570 \def\bididate{2022/06/13}
3571 \def\bidi@version{38.2}
3572 \ProvidesPackage{bidi}[\bididate\space v\bidi@version\space
3573 Bidirectional typesetting in plain TeX and LaTeX]
3574 \edef\@bidi@info{*****~J%
3575 * ~J%
3576 * bidi package (Bidirectional typesetting in~J%
3577 * plain TeX and LaTeX, using XeTeX engine)~J%
3578 * ~J%
3579 * Description: A convenient interface for~J%
3580 * typesetting bidirectional texts in plain TeX~J%
3581 * and LaTeX. The package includes adaptations~J%
3582 * for use with many other commonly-used packages.~J%
3583 * ~J%
3584 * Copyright (c) 2007--2022 Vafa Khalighi~J%
3585 * Copyright (c) 2018--2020 bidi-tex GitHub organization~J%
3586 * ~J%
3587 * v\bidi@version, \bididate~J%
3588 * ~J%
3589 * License: LaTeX Project Public License, version~J%
3590 * 1.3c or higher (your choice)~J%
3591 * ~J%
3592 * Location on CTAN: /macros/xetex/latex/bidi~J%
3593 * ~J%
3594 * Issue tracker: https://github.com/kvafa/bidi/issues~J%
3595 * ~J%
3596 * Discussions: https://github.com/kvafa/bidi/discussions~J%
3597 * ~J%
3598 * Primary author of bidi package: Vafa Khalighi.~J%
3599 * ~J%
3600 *****}
3601 \typeout{\@bidi@info}
3602 \edef\bidi@everyjob{\the\everyjob}

```



```

3603 \everyjob{\bidi@everyjob\typeout{\@bidi@info}}
3604 \newcommand*{\bidi@version}{\ensuremath\bidi@version}
3605 \newcommand*{\IfbidiPackageVersionLater}[1]{%
3606   \ifdim\bidi@version pt > #1 pt %
3607     \expandafter\@firstoftwo
3608   \else
3609     \expandafter\@secondoftwo
3610   \fi}
3611 \newcommand*{\IfbidiPackageVersionBefore}[1]{%
3612   \ifdim\bidi@version pt < #1 pt %
3613     \expandafter\@firstoftwo
3614   \else
3615     \expandafter\@secondoftwo
3616   \fi}
3617 \newcommand*{\IfbidiPackageVersion}[1]{%
3618   \ifdim\bidi@version pt = #1 pt %
3619     \expandafter\@firstoftwo
3620   \else
3621     \expandafter\@secondoftwo
3622   \fi}
3623 \RequirePackage{iftex}
3624 \RequireXeTeX
3625 \RequirePackage{bidiutils}
3626 \RequirePackage{zref-abspage}
3627 \RequirePackage{auxhook}
3628 \RequirePackage{ltxcmds}
3629 \RequirePackage{xkeyval}
3630 \eqnewif{\if@RTLmain}{\if@rlmain}
3631 \eqnewif{\if@RTL}{\if@rl}
3632 \newif\if@nonlatin
3633 \newif\if@bidi@perpage@footnote
3634 \newcommand*{\setlatin}{\@nonlatinfalse}
3635 \newcommand*{\setnonlatin}{\@nonlatintrue}
3636 \eqnewif{\if@RTLtab}{\if@tab@rl}
3637 \newif\if@hboxRconstruct
3638 \newif\if@bidi@pdfencrypt
3639 \newcommand*{\setRTLtable}{\@RTLtabtrue}
3640 \newcommand*{\setLTRtable}{\@RTLtabfalse}
3641 \newif\if@bidi@pdfmark
3642 \newif\if@RTLmarginpar
3643 \newif\if@LTRmarginpar
3644 \newif\if@LTRbibitems
3645 \newif\if@RTLbibitems
3646 \newif\if@extrafootnotefeatures
3647 \newif\if@RTLcolumnfootnotes
3648 \eqnewif{\if@RTL@footnote}{\if@rl@footnote}
3649 \newif\if@bidi@list@minipage@parbox
3650 \newif\if@bidi@list@minipage@parbox@not@nob
3651 \newcommand*{\@bidi@pdfcreator}{%
3652   The bidi package, v\bidi@version, \bididate
3653 }
3654 \newcommand*{\@bidi@pdfproducer}{%
3655   The bidi package, v\bidi@version, \bididate
3656 }

```



```

3657 \newcommand*{\@bidi@pdfcustomproperties}{%
3658   This is the bidi package, Version \@bidi@version,
3659   Released June 13, 2022.
3660 }
3661 \newcommand*{\@bidi@beamer@ragged}{%
3662 \@RTLmainfalse
3663 \AtBeginDocument{%
3664   \if@RTLmain\else
3665     \if@RTL\@RTLmaintrue%
3666     \else\@RTLmainfalse%
3667   \fi%
3668 \fi%
3669 }
3670 \let\n@xt=\
3671 \bidi@newrobustcmd*{\LRE}{\protect\pLRE}%
3672 \def\pLRE{\protect\afterassignment\moreLRE \let\n@xt= }
3673 \bidi@newrobustcmd*{\RLE}{\protect\pRLE}
3674 \def\pRLE{\protect\afterassignment\moreRLE \let\n@xt= }
3675 \def\bracetext{\ifcat\n@xt{\else\ifcat\n@xt}\fi
3676   \errmessage{Missing left brace has been substituted}\fi \bgroup}
3677 \newinsert\@bidi@copyins@
3678 \skip\@bidi@copyins@=12\p@
3679 \dimen\@bidi@copyins@=40pc
3680 \count\@bidi@copyins@=1000
3681 \newcommand*{\@bidi@inslogo@}{\insert\@bidi@copyins@{\@bidi@logo@}}
3682 \newcommand*{\@bidi@logo@hb@xt@columnwidth}{%
3683   \if@RTLmain
3684     \if@twocolumn
3685       \hboxR to \columnwidth
3686     \else
3687       \hboxR to \textwidth
3688     \fi
3689   \else
3690     \if@twocolumn
3691       \hboxL to \columnwidth
3692     \else
3693       \hboxL to \textwidth
3694     \fi
3695   \fi
3696 }
3697 \newcommand*{\@bidi@logo}[1]{%
3698   \toks@{%
3699     \setbox\z@\hbox{%
3700       \special{%
3701         pdf:image width 50pt height 50pt (#1)%
3702       }
3703     }%
3704     \dp\z@\z@
3705     \ht\z@=50pt
3706     \wd\z@=50pt
3707     \beginL
3708       \lower20pt\box\z@
3709     \endL
3710   }%

```



```

3711 \the\toks@
3712 }
3713 \newcommand*{\@bidi@logo@}{%
3714   \@bidi@logo@hb@xt@columnwidth
3715   {\hss\LR{\bfseries Typeset by the \textsf{bidi}
3716     package\quad\@bidi@logo{bidi-logo.pdf}}}}
3717 \define@key{bidi@pdfencrypt}{userpassword}[]{%
3718   \def\bidi@pdfencrypt@userpassword{#1}%
3719 }
3720 \define@key{bidi@pdfencrypt}{ownerpassword}[]{%
3721   \def\bidi@pdfencrypt@ownerpassword{#1}%
3722 }
3723 \define@key{bidi@pdfencrypt}{keylength}[128]{%
3724   \def\bidi@pdfencrypt@keylength{#1}%
3725 }
3726 \define@key{bidi@pdfencrypt}{permissionflags}[2052]{%
3727   \def\bidi@pdfencrypt@permissionflags{#1}%
3728 }
3729 \newcommand*{\pdfencryptsetup}{\setkeys{bidi@pdfencrypt}}
3730 \@onlypreamble\pdfencryptsetup
3731 \input{latex-xetex-bidi.def}
3732 \input{loadingorder-xetex-bidi.def}
3733 \define@choicekey{bidi.sty}{RTLdocument}[\bidi@tempa\bidi@tempb]{on,off}[on]{%
3734   \ifcase\bidi@tempb\relax
3735     \@RTLtrue
3736   \or
3737     \@RTLfalse
3738   \fi}
3739 \define@choicekey{bidi.sty}{documentdirection}[\bidi@tempa\bidi@tempb]{righttoleft,lefttoright}
3740 \ifcase\bidi@tempb\relax
3741   \@RTLtrue
3742 \or
3743   \@RTLfalse
3744 \fi}
3745 \define@choicekey{bidi.sty}{tabledirection}[\bidi@tempa\bidi@tempb]{righttoleft,lefttoright}
3746 \ifcase\bidi@tempb\relax
3747   \@RTLtabtrue
3748 \or
3749   \@RTLtabfalse
3750 \fi}
3751 \define@choicekey{bidi.sty}{script}[\bidi@tempa\bidi@tempb]{latin,nonlatin}[latin]{%
3752   \ifcase\bidi@tempb\relax
3753     \@nonlatinfalse
3754   \or
3755     \@nonlatintrue
3756   \fi}
3757 \define@choicekey{bidi.sty}{rldocument}[\bidi@tempa\bidi@tempb]{on,off}[on]{%
3758   \ifcase\bidi@tempb\relax
3759     \@RTLtrue
3760   \or
3761     \@RTLfalse
3762   \fi}
3763 \define@choicekey{bidi.sty}{footnoterule}[\bidi@tempa\bidi@tempb]{automatic,left,right,split}
3764 \ifcase\bidi@tempb\relax

```



```

3765 \autofootnoterule
3766 \or
3767 \leftfootnoterule
3768 \or
3769 \rightfootnoterule
3770 \or
3771 \SplitFootnoteRule
3772 \or
3773 \textwidthfootnoterule
3774 \fi}
3775 \define@choicekey{bidi.sty}{footnotedirection}[\bidi@tempa\bidi@tempb]{righttoleft,lefttoright}
3776 \ifcase\bidi@tempb\relax
3777 \@RTL@footnotetrue
3778 \or
3779 \@RTL@footnotefalse
3780 \fi}
3781 \define@choicekey{bidi.sty}{debugfootnotedirection}[\bidi@tempa\bidi@tempb]{on,off}[on]{%
3782 \ifcase\bidi@tempb\relax
3783 \footdir@debugtrue
3784 \or
3785 \footdir@debugfalse
3786 \fi}
3787 \define@choicekey{bidi.sty}{extrafootnotefeatures}[\bidi@tempa\bidi@tempb]{on,off}[on]{%
3788 \ifcase\bidi@tempb\relax
3789 \@extrafootnotefeaturestrue
3790 \or
3791 \@extrafootnotefeaturesfalse
3792 \fi}
3793
3794 \define@choicekey{bidi.sty}{DetectColumn}[\bidi@tempa\bidi@tempb]{on,off}[on]{%
3795 \ifcase\bidi@tempb\relax
3796 \def\bidi@firstcolumn@status@write{%
3797 \protected@write\@auxout{%
3798 {\string\bidi@column@status
3799 {1}}}%
3800 \def\bidi@lastcolumn@status@write{%
3801 \protected@write\@auxout{%
3802 {\string\bidi@column@status{2}}}%
3803 \or
3804 \let\bidi@firstcolumn@status@write\relax
3805 \let\bidi@lastcolumn@status@write\relax
3806 \fi}
3807
3808 \define@choicekey{bidi.sty}{logo}[\bidi@tempa\bidi@tempb]{on,off}[on]{%
3809 \ifcase\bidi@tempb\relax
3810 \AtBeginDocument{\@bidi@inslogo}%
3811 \or
3812 \let\@bidi@logo@\@empty \let\@bidi@inslogo@\@empty
3813 \fi}
3814
3815 \define@choicekey{bidi.sty}{pdfinfo}[\bidi@tempa\bidi@tempb]{on,off}[on]{%
3816 \ifcase\bidi@tempb\relax
3817 \@bidi@pdfmarktrue
3818 \or

```



```

3819 \@bidi@pdfm@markfalse
3820 \fi}
3821
3822 % The `perpagefootnote' option is documented in UK TeX FAQ at
3823 % <https://texfaq.org/FAQ-footnpp> (see last paragraph)
3824
3825 \define@choicekey{bidi.sty}{perpagefootnote}[\bidi@tempa\bidi@tempb]{on,off}[on]{%
3826 \ifcase\bidi@tempb\relax
3827 \@bidi@perpage@footnotetrue
3828 \or
3829 \@bidi@perpage@footnotefalse
3830 \fi}
3831
3832 \ExecuteOptionsX{%
3833 DetectColumn=off%
3834 }
3835
3836 \ProcessOptionsX
3837
3838 \pdfencryptsetup{%
3839 userpassword,%
3840 ownerpassword,%
3841 keylength,%
3842 permissionflags%
3843 }
3844
3845 \if@extrafootnotefeatures
3846 \input{extrafootnotefeatures-xetex-bidi.def}
3847 \fi
3848 \newcount\bidi@digits
3849 \XeTeXinterchartokenstate=\@ne
3850 \newXeTeXintercharclass\bidi@digits@charclass
3851 \newXeTeXintercharclass\bidi@sepmark@charclass
3852 \XeTeXcharclass \. \bidi@sepmark@charclass
3853 \XeTeXcharclass \- \bidi@sepmark@charclass
3854 \bidi@digits=\0 \loop \XeTeXcharclass \bidi@digits \bidi@digits@charclass \ifnum\bidi@digit
3855 \bidi@digits=\ \loop \XeTeXcharclass \bidi@digits \bidi@digits@charclass \ifnum\bidi@digit
3856 \bidi@digits=\ \loop \XeTeXcharclass \bidi@digits \bidi@digits@charclass \ifnum\bidi@digit
3857 \XeTeXinterchartoks \bidi@sepmark@charclass \bidi@digits@charclass = {\DigitsDotDashInterCh
3858 \newcommand*{\DigitsDotDashInterCharToks}{\if@nonlatin\char"200F \fi}
3859 \bidi@AtEndPreamble{%
3860 \if@bidi@perpage@footnote
3861 \RequirePackage{bidi-perpage}%
3862 \ResetCounterPerPage{footnote}%
3863 \fi
3864 \ifx\bidi@pdfencrypt@ownerpassword\bidi@empty
3865 \ifx\bidi@pdfencrypt@userpassword\bidi@empty
3866 \@bidi@pdfencryptfalse
3867 \else
3868 \@bidi@pdfencrypttrue
3869 \fi
3870 \else
3871 \@bidi@pdfencrypttrue
3872 \fi

```



```

3873 \if@bidi@pdfencrypt
3874   \special{pdf:encrypt
3875     userpw (\bidi@pdfencrypt@userpassword)
3876     ownerpw (\bidi@pdfencrypt@ownerpassword)
3877     length \bidi@pdfencrypt@keylength
3878     perm \bidi@pdfencrypt@permissionflags
3879   }%
3880 \fi
3881 }
3882 \AtEndDocument{%
3883   \special{pdf:
3884     docinfo<<%
3885       \if@bidi@pdfm@mark
3886         /Creator(\@bidi@pdfcreator)%
3887         /Producer(\@bidi@pdfproducer)%
3888       \fi
3889       /BIDI.Fullbanner(\@bidi@pdfcustomproperties)%
3890       \if@bidi@csdef{@xepersian@pdfcustomproperties}{%
3891         /XEPERSIAN.Fullbanner(\@xepersian@pdfcustomproperties)%
3892       }{}%
3893     >>%
3894   }%
3895 }

```

## 43 File `bidi.tex`

```

3896 \def\bididate{2022/06/13}
3897 \catcode\@=11
3898 \def\bidi@version{38.2}
3899 \let \protect \relax
3900 \newlinechar`\^^J
3901 \edef\@bidi@info{*****^^J%
3902 * ^^J%
3903 * bidi package (Bidirectional typesetting in^^J%
3904 * plain TeX and LaTeX, using XeTeX engine)^^J%
3905 * ^^J%
3906 * Description: A convenient interface for^^J%
3907 * typesetting bidirectional texts in plain TeX^^J%
3908 * and LaTeX. The package includes adaptations^^J%
3909 * for use with many other commonly-used packages.^^J%
3910 * ^^J%
3911 * Copyright (c) 2007--2022 Vafa Khalighi^^J%
3912 * Copyright (c) 2018--2020 bidi-tex GitHub organization^^J%
3913 * ^^J%
3914 * v\bidi@version, \bididate^^J%
3915 * ^^J%
3916 * License: LaTeX Project Public License, version^^J%
3917 * 1.3c or higher (your choice)^^J%
3918 * ^^J%
3919 * Location on CTAN: /macros/xetex/latex/bidi^^J%
3920 * ^^J%
3921 * Issue tracker: https://github.com/kvafa/bidi/issues^^J%
3922 * ^^J%
3923 * Discussions: https://github.com/kvafa/bidi/discussions^^J%

```



```

3924 * ^^J%
3925 * Primary author of bidi package: Vafa Khalighi.^^J%
3926 * ^^J%
3927 *****}
3928 \message{\@bidi@info}
3929 \edef\bidi@everyjob{\the\everyjob}
3930 \everyjob{\bidi@everyjob\message{\@bidi@info}}
3931 \def\bdiversion{%
3932   \relax
3933   \ifmmode
3934     \bidi@version
3935   \else
3936     $\bidi@version$
3937   \fi
3938 }
3939 \input iftex.sty
3940 \RequireXeTeX
3941 \newif\if@bidi@pdfm@mark
3942 \newif\if@RTLmain
3943 \newif\if@RTL
3944 \newif\if@hboxRconstruct
3945 \newif\if@sentsdir
3946 \newif\if@RTL@footnote
3947 \@RTLmainfalse
3948 \def\setRTLmain{%
3949   \if@RTLmain\else
3950     \if@RTL\@RTLmaintrue%
3951     \else\@RTLmainfalse%
3952   \fi%
3953   \fi%
3954 }
3955 \let\n@xt=\
3956 \protected\def\LRE{\protect\pLRE}%
3957 \def\pLRE{\protect\afterassignment\moreLRE \let\n@xt= }
3958 \protected\def\RLE{\protect\pRLE}
3959 \def\pRLE{\protect\afterassignment\moreRLE \let\n@xt= }
3960 \def\bracetext{\ifcat\n@xt{\else\ifcat\n@xt}\fi
3961   \errmessage{Missing left brace has been substituted}\fi \bgroup}
3962 \newinsert\@bidi@copyins@
3963 \skip\@bidi@copyins@=12\p@
3964 \dimen\@bidi@copyins@=40pc
3965 \count\@bidi@copyins@=1000
3966 \def\@bidi@inslogo{\insert\@bidi@copyins@\@bidi@logo@}
3967 \def\@bidi@logo@hb@xt{%
3968   \if@RTLmain
3969     \hboxR to
3970   \else
3971     \hboxL to
3972   \fi
3973 }
3974 \def\@bidi@logo#1{%
3975   \toks@{%
3976     \setbox\z@\hbox{%
3977       \special{

```



```

3978 pdf:image width 50pt height 50pt (#1)%
3979 }
3980 }%
3981 \dp\z@\z@
3982 \ht\z@=50pt
3983 \wd\z@=50pt
3984 \beginL
3985 \lower20pt\box\z@
3986 \endL
3987 }%
3988 \the\toks@
3989 }
3990 \def\@bidi@logo@{\@bidi@logo@hb@xt@\hsize{\hss\LRE{\bf Typeset by the bidi package\quad\@bidi@logo@}}
3991 \def\nobidilogo{\let\@bidi@logo@\empty \let\@bidi@inslogo@\empty}
3992 \def\@bidi@pdfcreator{%
3993 The bidi package, v\@bidi@version, \@bidi@date
3994 }
3995 \def\@bidi@pdfproducer{%
3996 The bidi package, v\@bidi@version, \@bidi@date
3997 }
3998 \def\@bidi@pdfcustomproperties{%
3999 This is the bidi package, Version \@bidi@version,
4000 Released June 13, 2022.
4001 }
4002 \def\bidi@pdfm@mark{%
4003 \special{pdf:%
4004 docinfo<<%
4005 \if\bidi@pdfm@mark
4006 /Creator(\@bidi@pdfcreator)%
4007 /Producer(\@bidi@pdfproducer)%
4008 \fi
4009 /BIDI.Fullbanner(\@bidi@pdfcustomproperties)%
4010 >>%
4011 }%
4012 }
4013 \def\bidi@pdfinfoon{\@bidi@pdfm@marktrue}
4014 \def\bidi@pdfinfooff{\@bidi@pdfm@markfalse}
4015 \input plain-xetex-bidi.def
4016 \@bidi@inslogo@
4017 \outer\def\bye{\par\vfill\supereject\bidi@pdfm@mark\end}
4018 \catcode\@=12
4019 \bidi@pdfinfoon

```

## 44 File bidi2in1.sty

```

4020 \NeedsTeXFormat{LaTeX2e}
4021 \ProvidesPackage{bidi2in1}
4022 \pagestyle{plain}
4023 \newcount\evenpage
4024 \newcount\oddpage
4025 \twocolumn
4026 \def\@oddfoot{\evenpage=\thepage%
4027 \multiply\evenpage by 2%
4028 \oddpage=\the\evenpage%

```



```

4029 \advance\oddpaper by -1%
4030 \hfil\the\evenpage\hfil\hfil\the\oddpaper\hfil}%
4031 \def\@evenfoot{\evenpage=\thepage%
4032 \multiply\evenpage by 2%
4033 \oddpaper=\the\evenpage%
4034 \advance\oddpaper by -1%
4035 \hfil\the\oddpaper\hfil\hfil\the\evenpage\hfil}%
4036 \textwidth 9.49in
4037 \textheight 6.7in
4038 \columnsep 0.9in
4039 \columnseprule 0.125pt
4040 \headheight 0cm
4041 \topmargin 0in
4042 \marginparwidth 0in
4043 \marginparsep 0in
4044 \hoffset 0.05in % Corrected
4045 \voffset -0.5in %top margin space is 1.0in by default
4046 \oddsidemargin 0in
4047 \evensidemargin 0in
4048 \headsep 0cm
4049 \topskip 0cm
4050 \parskip 0.15in %
4051 \headsep 0pt
4052 \special{papersize=11.69in,8.26in}
4053 \renewcommand\maketitle{\par
4054 \begingroup
4055 \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
4056 \def\@makefnmark{\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
4057 \long\def\@makefntext##1{\parindent 1em\noindent
4058 \hb@xt@1.8em{%
4059 \hss\@textsuperscript{\normalfont\@thefnmark}}##1}%
4060 \@maketitle
4061 \@thanks
4062 \endgroup
4063 \setcounter{footnote}{0}%
4064 \global\let\thanks\relax
4065 \global\let\maketitle\relax
4066 \global\let\@maketitle\relax
4067 \global\let\@thanks\@empty
4068 \global\let\@author\@empty
4069 \global\let\@date\@empty
4070 \global\let\@title\@empty
4071 \global\let\title\relax
4072 \global\let\author\relax
4073 \global\let\date\relax
4074 \global\let\and\relax
4075 }

```

## 45 File bidicode.sty

```

4076 \NeedsTeXFormat{LaTeX2e}
4077 \ProvidesPackage{bidicode}
4078 \RequirePackage{xcolor}
4079 \RequirePackage{showexpl}

```



```

4080 \definecolor{hellgelb}{rgb}{1,1,0.85}
4081 \definecolor{colKeys}{rgb}{0,0,1}
4082 \definecolor{colIdentifier}{rgb}{0,0,0}
4083 \definecolor{colComments}{rgb}{1,0,0}
4084 \definecolor{colString}{rgb}{0,0.5,0}
4085 \lstset{
4086     language=[LaTeX]TEX,
4087     float=hbp,
4088     basicstyle=\ttfamily\small,
4089     identifierstyle=\color{colIdentifier},
4090     keywordstyle=\color{colKeys},
4091     stringstyle=\color{colString},
4092     commentstyle=\color{colComments},
4093     backgroundcolor=\color{hellgelb},
4094     columns=flexible,
4095     tabsize=4,
4096     extendedchars=true,
4097     showspaces=false,
4098     showstringspaces=false,
4099     numbers=left,
4100     numbersep=0.9em,
4101     numberstyle=\tiny, %
4102     frame=single,
4103     captionpos=b,
4104     xleftmargin=1em,
4105     breaklines=true,
4106     breakautoindent=false,
4107     breakindent=0pt,
4108     escapeinside=**,
4109     pos=r,
4110     explpreset={%
4111     xleftmargin=1em,columns=flexible,language=[LaTeX]TEX},
4112     morekeywords={setLTR,setLR,setRTL,setRL,LRE,LR,RLE,RL,lr,bidiversion,bididate}
4113 }
4114 \newcommand\HLON{%
4115     \gdef\lst@alloverstyle##1{%
4116         \fboxrule=0pt
4117         \fboxsep=0pt
4118         \fcolorbox{hellgelb}{hellgelb}{\bfseries\strut##1}%
4119     }}
4120 \newcommand\HLOFF{%
4121     \xdef\lst@alloverstyle##1{##1}%
4122 }
4123 \newcommand\Larg [1]{\normalfont\itshape#1\/\}}
4124 \newcommand\Larga[1]{\angle$\Larg{#1}$\rangle$}
4125 \newcommand\Largb[1]{\lcb\Larg{#1}\rcb}
4126 \newcommand\Largs[1]{\lsb\Larg{#1}\rsb}
4127 \newcommand\Largr[1]{\lrb\Larg{#1}\rrb}
4128 \newcommand\LBEG[1]{\normalfont\ttfamily\bs{}begin\lcb#1\rcb}
4129 \newcommand\LEND[1]{\normalfont\ttfamily\bs{}end\lcb#1\rcb}
4130
4131 \DeclareRobustCommand\bs{\normalfont\ttfamily\symbol{92}}
4132 \DeclareRobustCommand\lcb{\normalfont\ttfamily\char`\{}}
4133 \DeclareRobustCommand\rcb{\normalfont\ttfamily\char`\}}

```



```

4134 \DeclareRobustCommand\lsb{{\normalfont\ttfamily[]}}
4135 \DeclareRobustCommand\rsb{{\normalfont\ttfamily[]}}
4136 \DeclareRobustCommand\lrb{{\normalfont\ttfamily{}}}
4137 \DeclareRobustCommand\rrb{{\normalfont\ttfamily{}}}
4138
4139 \def\Lcs#1{\nxLcs{#1}}
4140 \def\LcsStar#1{\nxLcs{#1}\OptArg*{}}
4141 \def\nxLcs#1{\texttt{\symbol{92}#1}}
4142
4143 \def\Coordx#1{$_{#1}$}
4144 \def\Coordy#1{$_{#1}$}
4145 \def\Coordz#1{$_{#1}$}
4146 \def\Coord#1{\Coordx{#1},\kern 1pt\Coordy{#1}}
4147 \def\Coordn{\Coordx{n},\kern 1pt\Coordy{n}}
4148 \def\CoordIII#1{\Coordx{#1},\kern 1pt\Coordy{#1},\kern 1pt\Coordz{#1}}
4149 \def\CAny{\Coordx{},\kern 1pt\Coordy{}}
4150 \def\CIIAny{\Coordx{},\kern 1pt\Coordy{},\kern 1pt\Coordz{}}
4151 \def\coord#1{(\Coordx{#1},\kern 1pt\Coordy{#1})}
4152 \def\coordn{(\Coordx{n},\kern 1pt\Coordy{n})}
4153 \def\coordiii#1{(\Coordx{#1},\kern 1pt\Coordy{#1},\kern 1pt\Coordz{#1})}
4154 \def\coordx#1{($_{#1}$)}
4155 \def\coordy#1{($_{#1}$)}
4156 \def\coordz#1{($_{#1}$)}
4157 \def\cAny{(\Coordx{},\kern 1pt\Coordy{}}
4158 \def\ciiAny{(\Coordx{},\kern 1pt\Coordy{},\kern 1pt\Coordz{}}
4159
4160 \newsavebox{\boxdef}
4161 \newenvironment{BDef}
4162   {\begin{lrbox}\boxdef
4163     \def\arraystretch{1.0}
4164     \begin{tabular}{@{}l@{}l@{}l@{}}
4165   }
4166   {\end{tabular}\end{lrbox}}
4167
4168   {\BCmd\fbbox{\usebox\boxdef}\endBCmd}
4169   \aftergroup\@afterindentfalse\aftergroup\@afterheading
4170 }
4171
4172 \newenvironment{BDef*}
4173   {\begin{lrbox}\boxdef
4174     \def\arraystretch{1.0}
4175     \begin{tabular}{@{}l@{}l@{}l@{}}
4176   }
4177   {\end{tabular}\end{lrbox}}
4178   {\begin{BCmd*}\fbbox{\usebox\boxdef}\endBCmd*}}
4179   \aftergroup\@afterindentfalse\aftergroup\@afterheading
4180 }
4181 \newenvironment{BCmd}{
4182   \@beginparpenalty-\@lowpenalty
4183   \topsep\BDefaboveskip
4184   \fbboxsep3pt
4185   \flushleft}
4186 {\@endparpenalty\@M
4187   \@topsepadd\BDefbelowskip

```



```

4188 \endflushleft}
4189
4190 \newenvironment{BCmd*}{
4191   \@beginparpenalty\@M
4192   \topsep\BDefinelineskip
4193   \fboxsep3pt
4194   \flushleft}
4195 {\@endparpenalty5000
4196  \endflushleft}
4197
4198 \newskip\BDefaboveskip
4199 \newskip\BDefbelowskip
4200 \newskip\BDefinlineskip
4201 \setlength\BDefaboveskip{10pt plus 4pt}
4202 \setlength\BDefbelowskip{6pt}
4203 \setlength\BDefinlineskip{6pt}
4204
4205 \def\OptArgs{\colorbox{black!20}{\texttt{[Options]}}\kern1pt}
4206 \def\OptArg{\@ifnextchar*\OptArgi{\OptArgii*}}
4207 \def\OptArgi*#1{\colorbox{black!20}{\texttt{#1}}\kern1pt}
4208 \def\OptArgii*#1{\colorbox{black!20}{\texttt{[#1]}}\kern1pt}

```

## 46 File bidiftnxtra.sty

```

4209 \NeedsTeXFormat{LaTeX2e}
4210 \ProvidesPackage{bidiftnxtra}
4211 \newtoks\bidip@ftn
4212 \let\FN@sffootnote\footnote
4213 \let\FN@sff@LTRfootnote\LTRfootnote
4214 \let\FN@sff@RTLfootnote\RTLfootnote
4215 \def\footnote{\ifx\protect\@typeset@protect
4216   \expandafter\FN@sffootnote
4217   \else
4218     \expandafter\FN@sff@gobble@opt
4219   \fi
4220 }
4221 \def\LTRfootnote{\ifx\protect\@typeset@protect
4222   \expandafter\FN@sff@LTRfootnote
4223   \else
4224     \expandafter\FN@sff@gobble@opt
4225   \fi
4226 }
4227 \def\RTLfootnote{\ifx\protect\@typeset@protect
4228   \expandafter\FN@sff@RTLfootnote
4229   \else
4230     \expandafter\FN@sff@gobble@opt
4231   \fi
4232 }
4233 \edef\FN@sff@gobble@opt{\noexpand\protect
4234   \expandafter\noexpand\csname FN@sff@gobble@opt \endcsname}
4235 \expandafter\def\csname FN@sff@gobble@opt \endcsname{%
4236   \@ifnextchar[%]
4237     \FN@sff@gobble@twobracket
4238     \@gobble

```



```

4239 }
4240 \def\FN@sfgobble@twobrace[#1]#2{}
4241 \let\FN@sfgobble@footnotemark\footnotemark
4242 \def\footnotemark{\ifx\protect\@typeset@protect
4243   \expandafter\FN@sfgobble@footnotemark
4244   \else
4245     \expandafter\FN@sfgobble@optonly
4246   \fi
4247 }
4248 \edef\FN@sfgobble@optonly{\noexpand\protect
4249   \expandafter\noexpand\csname FN@sfgobble@optonly \endcsname}
4250 \expandafter\def\csname FN@sfgobble@optonly \endcsname{%
4251   \@ifnextchar[%]
4252     \FN@sfgobble@bracket
4253     {}%
4254 }
4255 \def\FN@sfgobble@bracket[#1]{}
4256 \def\@tabular{%
4257   \leavevmode \hbox \bgroup
4258   \let\@footnotetext\@bidi@p@ftntext
4259   \let\@LTRfootnotetext\@bidi@p@LTRftntext
4260   \let\@RTLfootnotetext\@bidi@p@RTLftntext
4261   \let\@xfootnotenext\@bidi@p@xftntext
4262   \let\@xfootnote\@bidi@p@xfootnote
4263   \let\@xLTRfootnotenext\@bidi@p@xLTRftntext
4264   \let\@xLTRfootnote\@bidi@p@xLTRfootnote
4265   \let\@xRTLfootnotenext\@bidi@p@xRTLftntext
4266   \let\@xRTLfootnote\@bidi@p@xRTLfootnote
4267   \if@RTLtab\beginR \fi
4268   $\let\@acol\@tabacol
4269   \let\@classz\@tabclassz
4270   \let\@classiv\@tabclassiv \let\\\@tabularcr\@tabarray}
4271 \def\endtabular{\@crr\@egroup\if@RTLtab\@egroup\endR\@egroup\fi
4272   \egroup $\if@RTLtab\endR\fi\egroup
4273   \ifx\@cptype\@undefined
4274     \global\@bidi@p@ftn\expandafter{\expandafter}\the\@bidi@p@ftn\fi}
4275 \long\def\@bidi@p@ftntext#1{%
4276   \edef\@tempy{\the\@bidi@p@ftn\noexpand\footnotetext[\the\csname c@\mpfn\endcsname]}%
4277   \global\@bidi@p@ftn\expandafter{\@tempy{#1}}}%
4278 \long\def\@bidi@p@LTRftntext#1{%
4279   \edef\@tempyi{\the\@bidi@p@ftn\noexpand\LTRfootnotetext[\the\csname c@\mpfn\endcsname]}%
4280   \global\@bidi@p@ftn\expandafter{\@tempyi{#1}}}%
4281 \long\def\@bidi@p@RTLftntext#1{%
4282   \edef\@tempyii{\the\@bidi@p@ftn\noexpand\RTLfootnotetext[\the\csname c@\mpfn\endcsname]}%
4283   \global\@bidi@p@ftn\expandafter{\@tempyii{#1}}}%
4284
4285
4286 \long\def\@bidi@p@xftntext[#1]#2{%
4287   \global\@bidi@p@ftn\expandafter{\the\@bidi@p@ftn\footnotetext[#1]{#2}}}
4288
4289 \long\def\@bidi@p@xLTRftntext[#1]#2{%
4290   \global\@bidi@p@ftn\expandafter{\the\@bidi@p@ftn\LTRfootnotetext[#1]{#2}}}
4291
4292 \long\def\@bidi@p@xRTLftntext[#1]#2{%

```



```

4293 \global\bidip@ftn\expandafter{\the\bidip@ftn\RTLfootnotetext[#1]{#2}}
4294
4295
4296 \def\bidip@xfootnote[#1]{%
4297   \begingroup
4298     \csname c@\mpfn\endcsname #1\relax
4299     \unrestored@protected@xdef\@thefnmark{\thempfn}%
4300   \endgroup
4301   \@footnotemark\bidip@xftntext[#1]}
4302
4303
4304 \def\bidip@xLTRfootnote[#1]{%
4305   \begingroup
4306     \csname c@\mpfn\endcsname #1\relax
4307     \unrestored@protected@xdef\@thefnmark{\thempfn}%
4308   \endgroup
4309   \@footnotemark\bidip@xLTRftntext[#1]}
4310
4311
4312 \def\bidip@xRTLfootnote[#1]{%
4313   \begingroup
4314     \csname c@\mpfn\endcsname #1\relax
4315     \unrestored@protected@xdef\@thefnmark{\thempfn}%
4316   \endgroup
4317   \@footnotemark\bidip@xRTLftntext[#1]}
4318
4319 \def\@xfloat #1[#2]{%
4320   \@nocument
4321   \def \@capttype {#1}%
4322   \def \@fps {#2}%
4323   \@onelevel@sanitize \@fps
4324   \def \reserved@b {!}%
4325   \ifx \reserved@b \@fps
4326     \@fpsadddefault
4327   \else
4328     \ifx \@fps \@empty
4329       \@fpsadddefault
4330     \fi
4331   \fi
4332   \ifhmode
4333     \@bsphack
4334     \@floatpenalty -\@Mii
4335   \else
4336     \@floatpenalty -\@Miii
4337   \fi
4338   \ifinner
4339     \@parmoderr\@floatpenalty\z@
4340   \else
4341     \@next\@currbox\@freelist
4342     {%
4343       \@tempcnta \sixt@@n
4344       \expandafter \@tfor \expandafter \reserved@a
4345       \expandafter :\expandafter =\@fps
4346       \do

```



```

4347      {%
4348      \if \reserved@a h%
4349      \ifodd \@tempcnta
4350      \else
4351      \advance \@tempcnta \@ne
4352      \fi
4353      \fi
4354      \if \reserved@a t%
4355      \@setfpsbit \tw@
4356      \fi
4357      \if \reserved@a b%
4358      \@setfpsbit 4%
4359      \fi
4360      \if \reserved@a p%
4361      \@setfpsbit 8%
4362      \fi
4363      \if \reserved@a !%
4364      \ifnum \@tempcnta>15
4365      \advance\@tempcnta -\sixt@@n\relax
4366      \fi
4367      \fi
4368      }%
4369      \@tempcntb \csname ftype@\@capttype \endcsname
4370      \multiply \@tempcntb \@xxxii
4371      \advance \@tempcnta \@tempcntb
4372      \global \count\@currbox \@tempcnta
4373      }%
4374      \@fltovf
4375      \fi
4376      \global \setbox\@currbox
4377      \color@vbox
4378      \normalcolor
4379      \vbox \bgroup
4380      \let\@footnotetext\bidip@ftntext
4381      \let\@LTRfootnotetext\bidip@LTRftntext
4382      \let\@RTLfootnotetext\bidip@RTLftntext
4383      \let\@xfootnotenext\bidip@xftntext
4384      \let\@xfootnote\bidip@xfootnote
4385      \let\@xLTRfootnotenext\bidip@xLTRftntext
4386      \let\@xLTRfootnote\bidip@xLTRfootnote
4387      \let\@xRTLfootnotenext\bidip@xRTLftntext
4388      \let\@xRTLfootnote\bidip@xRTLfootnote
4389      \hsize\columnwidth
4390      \@parboxrestore
4391      \@floatboxreset
4392      }
4393      \def \endfloatbox{%
4394      \par\vskip\z@skip      %% \par\vskip\z@ added 15 Dec 87
4395      \@minipagefalse
4396      \outer@nobreak
4397      \egroup      %% end of vbox
4398      \global\bidip@ftn\expandafter{\expandafter}\the\bidip@ftn
4399      \color@endbox
4400      }

```



## 47 File bidimoderncv.cls

```
4401 \NeedsTeXFormat{LaTeX2e}
4402 \ProvidesClass{bidimoderncv}
4403 \newif\if@DEBUG\@DEBUGfalse
4404 \DeclareOption{a4paper}{
4405   \setlength\paperheight{297mm}
4406   \setlength\paperwidth{210mm}}
4407 \DeclareOption{a5paper}{
4408   \setlength\paperheight{210mm}
4409   \setlength\paperwidth{148mm}}
4410 \DeclareOption{b5paper}{
4411   \setlength\paperheight{250mm}
4412   \setlength\paperwidth{176mm}}
4413 \DeclareOption{letterpaper}{
4414   \setlength\paperheight{11in}
4415   \setlength\paperwidth{8.5in}}
4416 \DeclareOption{legalpaper}{
4417   \setlength\paperheight{14in}
4418   \setlength\paperwidth{8.5in}}
4419 \DeclareOption{executivepaper}{
4420   \setlength\paperheight{10.5in}
4421   \setlength\paperwidth{7.25in}}
4422 \DeclareOption{landscape}{
4423   \setlength\@tempdima{\paperheight}
4424   \setlength\paperheight{\paperwidth}
4425   \setlength\paperwidth{\@tempdima}}
4426 \newcommand\@ptsize{}
4427 \DeclareOption{10pt}{\renewcommand\@ptsize{0}}
4428 \DeclareOption{11pt}{\renewcommand\@ptsize{1}}
4429 \DeclareOption{12pt}{\renewcommand\@ptsize{2}}
4430 \DeclareOption{draft}{\setlength\overfullrule{5pt}}
4431 \DeclareOption{final}{\setlength\overfullrule{0pt}}
4432 \newif\if@colour\@colourtrue
4433 \DeclareOption{nocolour}{\@colourfalse}
4434 \ExecuteOptions{a4paper,11pt,colour,final}
4435 \ProcessOptions\relax
4436 \input{size1\@ptsize.clo}
4437 \RequirePackage{color}
4438 \RequirePackage{graphicx}
4439 \RequirePackage{ifthen}
4440 \RequirePackage{marvosym}
4441 \addtolength{\oddsidemargin}{-54pt}
4442 \addtolength{\textwidth}{109pt}
4443 \addtolength{\topmargin}{-70pt}
4444 \addtolength{\textheight}{122pt}
4445 \addtolength{\marginparsep}{-5pt}
4446 \addtolength{\marginparwidth}{-10pt}
4447 \RequirePackage{url}
4448 \RequirePackage{hyperref}
4449 \hypersetup{
4450   breaklinks,
4451   baseurl      = http://,
4452   pdfborder    = 0 0 0,}
```



```

4453 pdfpagemode = UseNone,%
4454 pdfstartpage = 1}
4455 \AtEndOfClass{%
4456 \AtBeginDocument{%
4457 \hypersetup{%
4458 pdfauthor = \@firstname~\@familyname,%
4459 pdftitle = \@title,%
4460 pdfsubject = \@firstname~\@familyname,%
4461 pdfkeywords = \@resumename~\@firstname~\@familyname}}
4462 \urlstyle{tt}
4463 \RequirePackage{fancyhdr}
4464 \fancypagestyle{plain}{%
4465 \renewcommand{\headrulewidth}{0pt}
4466 \renewcommand{\footrulewidth}{0pt}
4467 \fancyhf{}}
4468 \pagestyle{plain}
4469 \setlength\lineskip{1\p@}
4470 \setlength\normallineskip{1\p@}
4471 \renewcommand\baselinestretch{}
4472 \setlength{\parindent}{0pt}
4473 \setlength{\parskip}{0pt}
4474 \setlength\columnsep{10\p@}
4475 \setlength\columnseprule{0\p@}
4476 \pagestyle{empty}
4477 \pagenumbering{arabic}
4478 \raggedbottom
4479 \onecolumn
4480 \providecommand*\listitemsymbol{\textbullet}
4481 \providecommand*\addresssymbol{}
4482 \providecommand*\mobilesymbol{\Mobilefone}
4483 \providecommand*\phonesymbol{\Telefon}
4484 \providecommand*\faxsymbol{\FAX}
4485 \providecommand*\emailsymbol{\Letter}
4486 \definecolor{firstnamecolor}{rgb}{0,0,0}
4487 \def\firstnamecolour#1{\gdef\@firstnamecolour{\addfontfeature{Color=#1}}}
4488 \def\familynamecolour#1{\gdef\@familynamecolour{\addfontfeature{Color=#1}}}
4489 \def\titlecolour#1{\gdef\@titlecolour{\addfontfeature{Color=#1}}}
4490 \def\addresscolour#1{\gdef\@addresscolour{\addfontfeature{Color=#1}}}
4491 \def\quotecolour#1{\gdef\@quotecolour{\addfontfeature{Color=#1}}}
4492 \def\sectiontitlecolour#1{\gdef\@sectiontitlecolour{\addfontfeature{Color=#1}}}
4493 \definecolor{sectionrectanglecolor}{rgb}{0,0,0}
4494 \def\subsectioncolour#1{\gdef\@subsectioncolour{\addfontfeature{Color=#1}}}
4495 \def\hintcolour#1{\gdef\@hintcolour{\addfontfeature{Color=#1}}}
4496 \providecommand*\firstnamefont{}
4497 \providecommand*\familynamefont{}
4498 \providecommand*\titlefont{}
4499 \providecommand*\addressfont{}
4500 \providecommand*\quote font{}
4501 \providecommand*\sectionfont{}
4502 \providecommand*\subsectionfont{}
4503 \providecommand*\hintfont{\small}
4504 \providecommand*\firstnamestyle[1]{\{\@firstnamefont\@firstnamecolour#1}}
4505 \providecommand*\familynamestyle[1]{\{\@familynamefont\@familynamecolour#1}}
4506 \providecommand*\titlestyle[1]{\{\@titlefont\@titlecolour#1}}

```



```

4507 \providecommand*{\addressstyle}[1]{\@addressfont\@addresscolour#1}}
4508 \providecommand*{\quotestyle}[1]{\@quotefont\@quotecolour#1}}
4509 \providecommand*{\sectionstyle}[1]{\@sectionfont\@sectiontitlecolour#1}}
4510 \providecommand*{\subsectionstyle}[1]{\@subsectionfont\@subsectioncolour#1}}
4511 \providecommand*{\hintstyle}[1]{\@hintfont\@hintcolour#1}}
4512 \newcommand*{\cvtheme}[2][{}]{
4513   \def\@cvtheme{#2}
4514   \def\@cvthemeoptions{#1}}
4515 \cvtheme{bidi-casual}
4516 \AtBeginDocument{\RequirePackage[\@cvthemeoptions]{cvtheme\@cvtheme}}
4517 \newcommand*{\resumename}[1]{\def\@resumename{#1}}
4518 \newcommand*{\firstname}[1]{\def\@firstname{#1}}
4519 \newcommand*{\familyname}[1]{\def\@familyname{#1}}
4520 \renewcommand*{\title}[1]{\def\@title{#1}}
4521 \newcommand*{\address}[1]{\def\@address{#1}}
4522 \newcommand*{\mobile}[1]{\def\@mobile{#1}}
4523 \newcommand*{\phone}[1]{\def\@phone{#1}}
4524 \renewcommand*{\fax}[1]{\def\@fax{#1}}
4525 \newcommand*{\email}[1]{\def\@email{#1}}
4526 \newcommand*{\extrainfo}[1]{\def\@extrainfo{#1}}
4527 \def\@photowidth{0pt}
4528 \newcommand*{\photo}[2][64pt]{\def\@photowidth{#1}\def\@photo{#2}}
4529 \newcommand*{\quote}[1]{\def\@quote{#1}}
4530 \newlength{\quotewidth}
4531 \newlength{\hintscolumnwidth}
4532 \newlength{\separatorcolumnwidth}
4533 \setlength{\separatorcolumnwidth}{0.025\textwidth}
4534 \newlength{\maincolumnwidth}
4535 \newlength{\doubleitemmaincolumnwidth}
4536 \newlength{\listitemsymbolwidth}
4537 \settoheight{\listitemsymbolwidth}{\listitemsymbol{}}~}
4538 \newlength{\listitemmaincolumnwidth}
4539 \newlength{\listdoubleitemmaincolumnwidth}
4540 \newcommand*{\recomputethemelengths}{%
4541 \newcommand*{\recomputelengths}{%
4542 \setlength{\quotewidth}{0.65\textwidth}%
4543 \setlength{\maincolumnwidth}{\textwidth}%
4544 \addtolength{\maincolumnwidth}{-\separatorcolumnwidth}%
4545 \addtolength{\maincolumnwidth}{-\hintscolumnwidth}%
4546 \setlength{\listitemmaincolumnwidth}{\maincolumnwidth}%
4547 \addtolength{\listitemmaincolumnwidth}{-\listitemsymbolwidth}%
4548 \setlength{\doubleitemmaincolumnwidth}{\maincolumnwidth}%
4549 \addtolength{\doubleitemmaincolumnwidth}{-\hintscolumnwidth}%
4550 \addtolength{\doubleitemmaincolumnwidth}{-\separatorcolumnwidth}%
4551 \setlength{\doubleitemmaincolumnwidth}{0.5\doubleitemmaincolumnwidth}%
4552 \setlength{\listdoubleitemmaincolumnwidth}{\maincolumnwidth}%
4553 \addtolength{\listdoubleitemmaincolumnwidth}{-\listitemsymbolwidth}%
4554 \setlength{\listdoubleitemmaincolumnwidth}{0.475\listdoubleitemmaincolumnwidth}%
4555 \renewcommand{\headwidth}{\textwidth}%
4556 \recomputethemelengths}
4557 \setlength{\hintscolumnwidth}{0.15\textwidth}
4558 \recomputelengths
4559 \title{}
4560 \renewcommand*{\maketitle}{}

```



```

4561 \newcommand*{\section}[1]{%
4562 \vspace*{2.5ex \@plus 1ex \@minus .2ex}%
4563 \phantomsection}%
4564 \addcontentsline{toc}{part}{#1}%
4565 \parbox[m]{\hintscolumnwidth}{\bidi@raggedleft\hintfont{\leavevmode\color{sectionrectangle}%
4566 \hspace{\separatorcolumnwidth}%
4567 \parbox[m]{\maincolumnwidth}{\sectionstyle{#1}}\}[1ex]}
4568 \newcommand*{\subsection}[1]{%
4569 \cvline[0.45em]{\subsectionstyle{#1}}%
4570 \newcommand*{\cvline}[3][.25em]{%
4571 \begin{tabular}{@{}p{\hintscolumnwidth}@{\hspace{\separatorcolumnwidth}}p{\maincolumnwidth}%
4572 \bidi@raggedleft\hintfont{#2} &{#3}%
4573 \end{tabular}}\#[1]}
4574 \newcommand*{\cvdoubleitem}[4]{%
4575 \cvline{#1}{\begin{minipage}[t]{\doubleitemmaincolumnwidth}#2\end{minipage}}%
4576 \hfill%
4577 \begin{minipage}[t]{\hintscolumnwidth}\bidi@raggedleft\hintfont{#3}\end{minipage}\hspace*{
4578 \newcommand*{\cvlistitem}[2][\listitemsymbol]{%
4579 \cvline[0pt]{\begin{minipage}[t]{\listitemmaincolumnwidth}#2\end{minipage}}%
4580 \newcommand*{\cvlistdoubleitem}[3][\listitemsymbol]{%
4581 \cvline[0pt]{\begin{minipage}[t]{\listdoubleitemmaincolumnwidth}#2\end{minipage}}%
4582 \hfill%
4583 \ifthenelse{\equal{#3}{}}%
4584 {}%
4585 {#1~\begin{minipage}[t]{\listdoubleitemmaincolumnwidth}#3\end{minipage}}}%
4586 \newcommand*{\cventry}[6]{%
4587 \cvline{#1}{%
4588 {\bfseries#2}%
4589 \ifx#3\else{, {\slshape#3}}\fi%
4590 \ifx#4\else{, #4}\fi%
4591 \ifx#5\else{, #5}\fi%
4592 .%
4593 \ifx#6\else{\newline}\begin{minipage}[t]{\linewidth}\small#6\end{minipage}}\fi
4594 }%
4595 \newcommand*{\cvlanguage}[3]{%
4596 \cvline{#1}{\begin{minipage}[t]{.225\maincolumnwidth}\textbf{#2}\end{minipage}\hfill\begin{
4597 \newcommand*{\cvcomputer}[4]{%
4598 \cvdoubleitem{#1}{\small#2}{#3}{\small#4}}
4599 \newcommand*{\link}[2][]{%
4600 \ifthenelse{\equal{#1}{}}%
4601 {\href{#2}{#2}}%
4602 {\href{#2}{#1}}}
4603 \newcommand*{\httplink}[2][]{%
4604 \ifthenelse{\equal{#1}{}}%
4605 {\href{http://#2}{#2}}%
4606 {\href{http://#2}{#1}}}
4607 \newcommand*{\emailink}[2][]{%
4608 \ifthenelse{\equal{#1}{}}%
4609 {\href{mailto:#2}{#2}}%
4610 {\href{mailto:#2}{#1}}}
4611 \newif\if@displaypagenumbers\@displaypagenumberstrue
4612 \newcommand*{\nopagenumbers}{\@displaypagenumbersfalse}
4613 \AtBeginDocument{%
4614 \if@displaypagenumbers%

```



```

4615 \ifundefined{r@lastpage}{}%
4616 \ifthenelse{\pageref{lastpage} > 1}{%
4617 \fancypagestyle{plain}{%
4618 \fancyfoot[r]{\beginL\addressfont\@quotecolour\footnotesize\thepage\beginL/\endL\pag
4619 \pagestyle{plain}}}%
4620 \AtEndDocument{\label{lastpage}}%
4621 \fi}
4622 \newlength{\bibindent}
4623 \setlength{\bibindent}{1.5em}
4624 \newcommand*{\bibliographyitemlabel}{\includegraphics{bidi-bibitem.pdf}}
4625 \newenvironment{thebibliography}[1]%
4626 {%
4627 \section{\refname}%
4628 \small%
4629 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
4630 \bidi@thebibliography@font@hook%
4631 \begin{list}{\bibliographyitemlabel}%
4632 {%
4633 \setlength{\topsep}{0pt}%
4634 \setlength{\labelwidth}{\hintscolumnwidth}%
4635 \setlength{\labelsep}{\separatorcolumnwidth}%
4636 \leftmargin\labelwidth%
4637 \advance\leftmargin\labelsep%
4638 \@openbib@code%
4639 \usecounter{enumiv}%
4640 \let\p@enumiv\empty%
4641 \renewcommand\theenumiv{\@arabic\c@enumiv}}%
4642 \sloppy\clubpenalty4000\widowpenalty4000%
4643 }%
4644 {%
4645 \def\@noitemerr{\@latex@warning{Empty `thebibliography' environment}}%
4646 \end{list}%
4647 }
4648 \newcommand\newblock{\hskip .11em\@plus.33em\@minus.07em}
4649 \let\@openbib@code\empty

```

## 48 File bidi-perpage.sty

```

4650 \NeedsTeXFormat{LaTeX2e}
4651 \ProvidesPackage{bidi-perpage}[2018/10/04 v0.4 Reset counter(s) on every page]
4652 \newcount\bidi@page@count
4653 \bidi@page@count\@ne
4654 \newcommand*{\ResetCounterPerPage}[2][\z@]{%
4655 \if@bidi@csundef\bidi@stepcounterhook@@#2}{%
4656 \expandafter\gdef\csname bidi@stepcounterhook@@#2\endcsname{}%
4657 }{}%
4658 \if@bidi@csundef\if@bidi@reset@#2@rerun}{%
4659 \expandafter\newif\csname if@bidi@reset@#2@rerun\endcsname
4660 }{}%
4661 \if@bidi@csundef\bidi@#2@count}{%
4662 \expandafter\newcount\csname bidi@#2@count\endcsname
4663 }{}%
4664 \csname bidi@#2@count\endcsname\z@
4665 \if@bidi@csundef\bidi@previous@page@@#2@count}{%

```



```

4666 \expandafter\newcount\csname
4667 bidi@previous@page@@#2@count\endcsname
4668 }{}%
4669 \csname bidi@previous@page@@#2@count\endcsname\z@
4670 \if@bidi@csundef{bidi@reset@#2@perpage}{%
4671 \bidi@AfterEndDocumentCheckLabelsRerun{%
4672 \csname if@bidi@reset@#2@rerun\endcsname
4673 \PackageWarningNoLine{bidi-perpage}{%
4674 Counter `#2' may not have been reset per page.
4675 Rerun to reset counter `#2' per page%
4676 }%
4677 \fi
4678 }%
4679 }{}%
4680 \expandafter\gdef\csname bidi@reset@#2@perpage\endcsname{%
4681 \global\advance\csname bidi@#2@count\endcsname\@ne
4682 \if@filesw
4683 \edef\@tempa{%
4684 \write\@auxout{%
4685 \string\bidi@counter@page{#2}%
4686 {\number\csname bidi@#2@count\endcsname}%
4687 {\noexpand\number\noexpand\bidi@page@count}%
4688 }%
4689 }%
4690 \@tempa
4691 \fi
4692 \begingroup\expandafter\expandafter\expandafter\endgroup
4693 \expandafter\ifx\csname bidi@#2@@\number\csname
4694 bidi@#2@count\endcsname\endcsname\relax
4695 \global\csname @bidi@reset@#2@reruntrue\endcsname
4696 \else
4697 \global\csname @bidi@reset@#2@rerunfalse\endcsname
4698 \expandafter\@tempcnta\csname bidi@#2@@\number
4699 \csname bidi@#2@count\endcsname\endcsname\relax
4700 \ifnum\@tempcnta=\csname
4701 bidi@previous@page@@#2@count\endcsname
4702 \else
4703 \global\csname
4704 bidi@previous@page@@#2@count\endcsname\@tempcnta
4705 \global\csname c@#2\endcsname#1\relax
4706 \fi
4707 \fi
4708 }%
4709 \expandafter\bidi@gappto\csname
4710 bidi@stepcounterhook@@#2\endcsname{%
4711 \csname bidi@reset@#2@perpage\endcsname
4712 }%
4713 }
4714 \def\bidi@counter@page#1#2#3{\bidi@namegdef{bidi@#1@#2}{#3}}
4715 \bidi@AtEndOutputPage{%
4716 \global\advance\bidi@page@count\@ne
4717 }

```



## 49 File `biditools.sty`

```
4718 \NeedsTeXFormat{LaTeX2e}
4719 \ProvidesPackage{biditools}[2022/06/06 v2.2 Programming tools for bidi package]
4720 \providecommand{\@bidi@saveprimitive}[2]{\begingroup\escapechar`\relax
4721   \edef\@tempa{\string#1}\edef\@tempb{\meaning#1}%
4722   \ifx\@tempa\@tempb \global\let#2#1%
4723   \else
4724     \edef\@tempb{\meaning#2}%
4725     \ifx\@tempa\@tempb
4726     \else
4727       \@latex@error{Unable to properly define \string#2; primitive
4728       \noexpand#1no longer primitive}\@eha
4729     \fi
4730   \fi
4731 \endgroup}
4732 \newtoks\@bidi@envbody
4733 \newtoks\@bidi@emptytoks
4734 \def\bidi@addto@envbody#1{\global\@bidi@envbody\expandafter{\the\@bidi@envbody#1}}
4735 \def\bidi@collect@body#1{%
4736   \@bidi@envbody{\expandafter#1\expandafter{\the\@bidi@envbody}}%
4737   \edef\bidi@process@envbody{\the\@bidi@envbody\noexpand\end{\@currentvir}}%
4738   \@bidi@envbody\@bidi@emptytoks \def\begin@bidi@stack{b}%
4739   \begingroup
4740   \expandafter\let\csname\@currentvir\endcsname\bidi@collect@@body
4741   \edef\bidi@process@envbody{\expandafter\noexpand\csname\@currentvir\endcsname}%
4742   \bidi@process@envbody
4743 }
4744 \def\bidi@push@begins#1\begin#2{%
4745   \ifx\end#2\else b\expandafter\bidi@push@begins\fi
4746 }
4747 \def\bidi@collect@@body#1\end#2{%
4748   \edef\begin@bidi@stack{\bidi@push@begins#1\begin\end \expandafter\@gobble\begin@bidi@stack}
4749   \ifx\@empty\begin@bidi@stack
4750     \endgroup
4751     \@checkend{#2}%
4752     \bidi@addto@envbody{#1}%
4753   \else
4754     \bidi@addto@envbody{#1\end{#2}}%
4755   \fi
4756   \bidi@process@envbody % A little tricky! Note the grouping
4757 }
4758 \long\def\bidi@addto@long@envbody#1{\global\@bidi@envbody\expandafter{\the\@bidi@envbody#1}}
4759 \long\def\bidi@collect@long@body#1{%
4760   \@bidi@envbody{\expandafter#1\expandafter{\the\@bidi@envbody}}%
4761   \edef\bidi@process@envbody{\the\@bidi@envbody\noexpand\end{\@currentvir}}%
4762   \@bidi@envbody\@bidi@emptytoks \def\begin@bidi@stack{b}%
4763   \begingroup
4764   \expandafter\let\csname\@currentvir\endcsname\bidi@collect@long@@body
4765   \edef\bidi@process@envbody{\expandafter\noexpand\csname\@currentvir\endcsname}%
4766   \bidi@process@envbody
4767 }
4768 \long\def\bidi@push@long@begins#1\begin#2{%
4769   \ifx\end#2\else b\expandafter\bidi@push@long@begins\fi
```



```

4770 }
4771 \long\def\bidicollect@long@@body#1\end#2{%
4772 \edef\begin@bidi@stack{\bidi@push@long@begins#1\begin\end \expandafter\@gobble\begin@bidi@
4773 \ifx\@empty\begin@bidi@stack
4774 \endgroup
4775 \@checkend{#2}%
4776 \bidi@addto@long@envbody{#1}%
4777 \else
4778 \bidi@addto@long@envbody{#1\end{#2}}%
4779 \fi
4780 \bidi@process@envbody % A little tricky! Note the grouping
4781 }
4782 \long\def\bidinew@ifnextchar#1#2#3{%
4783 \let\reserved@d= #1%
4784 \def\reserved@a{#2}\def\reserved@b{#3}%
4785 \futurelet\@let@token\bidi@new@ifnch
4786 }
4787 \def\bidi@new@ifnch{%
4788 \ifx\@let@token\reserved@d \let\reserved@b\reserved@a \fi
4789 \reserved@b
4790 }
4791 \def\bidi@matrix@check#1{%
4792 \expandafter\ifx\csname\@currentvir\endcsname#1%
4793 \else\bidi@matrix@error#1%
4794 \expandafter\@gobble
4795 \fi
4796 }
4797 \def\bidi@matrix@error#1{%
4798 \PackageError{biditools}{%
4799 Old form '\string#1' should be \string\begin{\expandafter\@gobble\string#1}%
4800 }{%
4801 '\string#1{...}' is old bidi package syntax whose use is
4802 ill-advised in the old versions of bidi package.%
4803 }%
4804 }
4805 \def\@tagsextension{clo}
4806 \def\@definitionfileextension{def}
4807 \def\@texfileextension{tex}
4808 \def\@iftagsloaded{\@ifl@aded\@tagsextension}
4809 \def\@ifdefinitionfileloaded{\@ifl@aded\@definitionfileextension}
4810 \def\@iftexfileloaded{\@ifl@aded\@texfileextension}
4811 \def\eqnewif#1#2{%
4812 \count@ \escapechar \escapechar@m@ne
4813 \let#1\iffalse
4814 \let#2\iffalse
4815 \eq@if#1#2\iftrue
4816 \eq@if#1#2\iffalse
4817 \escapechar\count@}
4818 \def\eq@if#1#2#3{%
4819 \expandafter\def\csname\expandafter\@gobbletwo\string#1%
4820 \expandafter\@gobbletwo\string#3\endcsname
4821 {\let#1#3%
4822 \let#2#3}%
4823 \expandafter\def\csname\expandafter\@gobbletwo\string#2%

```



```

4824         \expandafter\@gobbletwo\string#3\endcsname
4825         {\let#2#3%
4826         \let#1#3}}
4827 \newcommand*\SetBoolean}[2]{%
4828   \lowercase{\def\@tempa{#2}}%
4829   \@ifundefined{@tempwa\@tempa}%
4830     {\PackageError{biditools}%
4831      {You can only set a boolean to `true' or `false'}\@ehc}%
4832     {\@ifundefined{#1\@tempa}%
4833      {\PackageError{biditools}{Boolean #1 undefined}\@ehc}%
4834      {\csname#1\@tempa\endcsname}}}
4835 \newcommand*\GlobalSetBoolean}[2]{%
4836   \lowercase{\def\@tempa{#2}}%
4837   \@ifundefined{@tempwa\@tempa}%
4838     {\PackageError{biditools}%
4839      {You can only set a boolean to `true' or `false'}\@ehc}%
4840     {\@ifundefined{#1\@tempa}%
4841      {\PackageError{biditools}{Boolean #1 undefined}\@ehc}%
4842      {\global\csname#1\@tempa\endcsname}}}
4843 \newcommand*\SetatBoolean}[2]{%
4844   \lowercase{\def\@tempa{#2}}%
4845   \@ifundefined{@tempwa\@tempa}%
4846     {\PackageError{biditools}%
4847      {You can only set a boolean to `true' or `false'}\@ehc}%
4848     {\@ifundefined{@#1\@tempa}%
4849      {\PackageError{biditools}{Boolean @#1 undefined}\@ehc}%
4850      {\csname @#1\@tempa\endcsname}}}
4851 \newcommand*\GlobalSetatBoolean}[2]{%
4852   \lowercase{\def\@tempa{#2}}%
4853   \@ifundefined{@tempwa\@tempa}%
4854     {\PackageError{biditools}%
4855      {You can only set a boolean to `true' or `false'}\@ehc}%
4856     {\@ifundefined{@#1\@tempa}%
4857      {\PackageError{biditools}{Boolean @#1 undefined}\@ehc}%
4858      {\global\csname @#1\@tempa\endcsname}}}
4859 \def\@bidi@removefromreset#1#2{%
4860   \expandafter\let\csname c@#1\endcsname\@bidi@removefromreset
4861   \def\@elt##1{%
4862     \expandafter\ifx\csname c@##1\endcsname\@bidi@removefromreset
4863     \else
4864       \noexpand\@elt{##1}%
4865     \fi}%
4866   \expandafter\xdef\csname cl@#2\endcsname{%
4867     \csname cl@#2\endcsname}}}
4868 \newcommand*\ifRtoL{%
4869   \if@RTL
4870     \expandafter\@firstoftwo
4871   \else
4872     \expandafter\@secondoftwo
4873   \fi}
4874 \newcommand*\ifLtoR{%
4875   \if@RTL
4876     \expandafter\@secondoftwo
4877   \else

```



```

4878 \expandafter\@firstoftwo
4879 \fi}
4880 \newcommand*\ifRtoLtable}{%
4881 \if@RTLtab
4882 \expandafter\@firstoftwo
4883 \else
4884 \expandafter\@secondoftwo
4885 \fi}
4886 \newcommand*\ifLtoRtable}{%
4887 \if@RTLtab
4888 \expandafter\@secondoftwo
4889 \else
4890 \expandafter\@firstoftwo
4891 \fi}
4892 \newcommand*\ifRtoLhboxconstruct}{%
4893 \if@hboxRconstruct
4894 \expandafter\@firstoftwo
4895 \else
4896 \expandafter\@secondoftwo
4897 \fi}
4898 \newcommand*\ifLtoRhboxconstruct}{%
4899 \if@hboxRconstruct
4900 \expandafter\@secondoftwo
4901 \else
4902 \expandafter\@firstoftwo
4903 \fi}
4904 \newcommand*\iflatin}{%
4905 \if@nonlatin
4906 \expandafter\@secondoftwo
4907 \else
4908 \expandafter\@firstoftwo
4909 \fi}
4910 \newcommand*\ifnonlatin}{%
4911 \if@nonlatin
4912 \expandafter\@firstoftwo
4913 \else
4914 \expandafter\@secondoftwo
4915 \fi}
4916
4917 \newcommand*\bidi@@convert@dimen@t@unit}[2]{%
4918 \strip@pt\dimexpr #1*65536/\dimexpr 1#2\relax #2}
4919
4920 \newcommand*\bidi@@convert@dimen@t@pt}[1]{%
4921 \dimexpr #1*65536/\dimexpr 1pt\relax}
4922
4923 \newcommand*\if@bidi@csdef}[1]{%
4924 \ifcsname#1\endcsname
4925 \expandafter\@firstoftwo
4926 \else
4927 \expandafter\@secondoftwo
4928 \fi}
4929 \newcommand*\if@bidi@csundef}[1]{%
4930 \ifcsname#1\endcsname
4931 \expandafter\ifx\csname#1\endcsname\relax

```



```

4932     \expandafter\expandafter
4933     \expandafter\@firstoftwo
4934     \else
4935     \expandafter\expandafter
4936     \expandafter\@secondoftwo
4937     \fi
4938 \else
4939     \expandafter\@firstoftwo
4940 \fi}
4941 \newcommand{\if@bidi@def}[1]{%
4942     \ifdefined#1%
4943     \expandafter\@firstoftwo
4944 \else
4945     \expandafter\@secondoftwo
4946 \fi}
4947 \newcommand{\if@bidi@undef}[1]{%
4948     \ifdefined#1%
4949     \ifx#1\relax
4950     \expandafter\expandafter
4951     \expandafter\@firstoftwo
4952     \else
4953     \expandafter\expandafter
4954     \expandafter\@secondoftwo
4955     \fi
4956 \else
4957     \expandafter\@firstoftwo
4958 \fi}
4959 \newcommand{\if@bidi@blank}[1]{% from url.sty
4960     \bidi@ifblank@i#1&&\@secondoftwo\@firstoftwo:}
4961 \long\def\bidi@ifblank@i#1#2&#3#4#5:{#4}
4962 \newcommand{\bidi@notblank}[1]{%
4963     \bidi@ifblank@i#1&&\@firstoftwo\@secondoftwo:}
4964 \newcommand{\if@bidi@defmacro}{%
4965     \long\edef\if@bidi@defmacro#1{%
4966         \noexpand\expandafter\noexpand\bidi@ifdefmacro
4967         \noexpand\meaning#1\detokenize{macro}:&}
4968     \edef\bidi@ifdefmacro{%
4969         \def\noexpand\bidi@ifdefmacro##1\detokenize{macro}:##2&
4970         \bidi@ifdefmacro{\bidi@notblank{#2}}
4971     \newcommand*{\if@bidi@csmacro}[1]{%
4972         \if@bidi@csdef{#1}
4973         {\expandafter\if@bidi@defmacro\csname#1\endcsname}
4974         {\@secondoftwo}}
4975     \newcommand{\if@bidi@defprimitive}[1]{%
4976         \ifprimitive#1%
4977         \expandafter\@firstoftwo
4978     \else
4979         \expandafter\@secondoftwo
4980     \fi}
4981 \newcommand{\if@bidi@csprimitive}[1]{%
4982     \begingroup\expandafter\expandafter\expandafter\endgroup%
4983     \expandafter\ifprimitive\csname#1\endcsname%
4984     \expandafter\@firstoftwo
4985 \else

```



```

4986 \expandafter\@secondoftwo
4987 \fi}
4988 \newcommand*{\bidi@csdefcs}[2]{%
4989 \expandafter\@ifdefinable \csname#1\endcsname{%
4990 \expandafter\def\csname#1\expandafter\endcsname{\csname#2\endcsname}}
4991 \newcommand*{\bidi@csletcs}[2]{%
4992 \expandafter\@ifdefinable \csname#1\endcsname{%
4993 \expandafter\let\csname#1\expandafter\endcsname\csname#2\endcsname}}
4994 \newcommand*{\bidi@cslet}[2]{%
4995 \expandafter\@ifdefinable \csname#1\endcsname{%
4996 \expandafter\let\csname#1\endcsname#2}}
4997 \newcommand{\bidi@namelongdef}[1]{%
4998 \long\expandafter\def\csname #1\endcsname}
4999 \newcommand{\bidi@namelonggdef}[1]{%
5000 \long\expandafter\gdef\csname #1\endcsname}
5001 \newcommand{\bidi@namelongedef}[1]{%
5002 \long\expandafter\edef\csname #1\endcsname}
5003 \newcommand{\bidi@namelongxdef}[1]{%
5004 \long\expandafter\xdef\csname #1\endcsname}
5005 \def\bidi@ensure@newcommand{\@star@or@long\bidi@ensure@new@command}
5006 \def\bidi@ensure@new@command#1{%
5007 \begingroup \escapechar\m@ne\xdef\@tempa{\string#1}\endgroup
5008 \expandafter\if\bidi@csundef\@tempa
5009 {\new@command#1}{\relax%
5010 \let\@ifdefinable\@rc@ifdefinable%
5011 \new@command#1}}
5012 \def\bidi@ensure@newlength#1{\if\bidi@undef#1{\newskip#1}{}}
5013
5014 \protected\def\bidi@error{\PackageError{bidi}}
5015 \protected\def\bidi@warning{\PackageWarning{bidi}}
5016 \protected\def\bidi@info{\PackageInfo{bidi}}
5017
5018 \def\bidi@pos#1#2#3#4{\bidi@namegdef\bidi@#1pos@@#2@#3}{#4}}
5019
5020 \newcount\bidi@poscount
5021
5022 \newcommand*{\WriteStartXPostoaux}{%
5023 \global\advance\bidi@poscount\@ne
5024 \edef\@tempa{%
5025 \write\@auxout{%
5026 \string\bidi@pos{x}{start}{\number\bidi@poscount}{\noexpand\number\noexpand\pdflastx}
5027 }%
5028 }%
5029 \ifvmode
5030 \leavevmode
5031 \fi
5032 \if@RTL
5033 \if@filesw
5034 \@tempa
5035 \fi
5036 \pdfsavepos
5037 \else
5038 \pdfsavepos
5039 \if@filesw

```



```

5040 \@tempa
5041 \fi
5042 \fi
5043 \if@bidi@csundef{bidi@xpos@@start@\number\bidi@poscount}{%
5044 \PackageWarningNoLine{biditools}{%
5045 The start x position ` \number\bidi@poscount' is not known yet.
5046 Rerun to get this x position%
5047 }%
5048 }{}%
5049 }
5050
5051 \newcommand*{\WriteEndXPostoaux}{%
5052 \edef\@tempa{%
5053 \write\@auxout{%
5054 \string\bidi@pos{x}{end}{\number\bidi@poscount}{\noexpand\number\noexpand\pdflastx
5055 }%
5056 }%
5057 \if@RTL
5058 \if@filesw
5059 \@tempa
5060 \fi
5061 \pdfsavepos
5062 \else
5063 \pdfsavepos
5064 \if@filesw
5065 \@tempa
5066 \fi
5067 \fi
5068 \if@bidi@csundef{bidi@xpos@@end@\number\bidi@poscount}{%
5069 \PackageWarningNoLine{biditools}{%
5070 The end x position ` \number\bidi@poscount' is not known yet.
5071 Rerun to get this x position%
5072 }%
5073 }{}%
5074 }
5075
5076 \newcommand*{\WriteStartYPostoaux}{%
5077 \global\advance\bidi@poscount\@ne
5078 \edef\@tempa{%
5079 \write\@auxout{%
5080 \string\bidi@pos{y}{start}{\number\bidi@poscount}{\noexpand\number\noexpand\pdflasty
5081 }%
5082 }%
5083 \ifvmode
5084 \leavevmode
5085 \fi
5086 \if@RTL
5087 \if@filesw
5088 \@tempa
5089 \fi
5090 \pdfsavepos
5091 \else
5092 \pdfsavepos
5093 \if@filesw

```



```

5094 \@tempa
5095 \fi
5096 \fi
5097 \if@bidi@csundef{bidi@ypos@@start@\number\bidi@poscount}{%
5098 \PackageWarningNoLine{biditools}{%
5099 The start y position ` \number\bidi@poscount' is not known yet.
5100 Rerun to get this y position%
5101 }%
5102 }{}%
5103 }
5104
5105 \newcommand*{\WriteEndYPostoaux}{%
5106 \edef\@tempa{%
5107 \write\@auxout{%
5108 \string\bidi@pos{y}{end}{\number\bidi@poscount}{\noexpand\number\noexpand\pdflastx
5109 }%
5110 }%
5111 \if@RTL
5112 \if@filesw
5113 \@tempa
5114 \fi
5115 \pdfsavepos
5116 \else
5117 \pdfsavepos
5118 \if@filesw
5119 \@tempa
5120 \fi
5121 \fi
5122 \if@bidi@csundef{bidi@ypos@@end@\number\bidi@poscount}{%
5123 \PackageWarningNoLine{biditools}{%
5124 The end y position ` \number\bidi@poscount' is not known yet.
5125 Rerun to get this y position%
5126 }%
5127 }{}%
5128 }
5129
5130 \newcommand*{\WriteStartXYPostoaux}{%
5131 \global\advance\bidi@poscount\@ne
5132 \edef\@tempa{%
5133 \write\@auxout{%
5134 \string\bidi@pos{x}{start}{\number\bidi@poscount}{\noexpand\number\noexpand\pdflastx
5135 }%
5136 \write\@auxout{%
5137 \string\bidi@pos{y}{start}{\number\bidi@poscount}{\noexpand\number\noexpand\pdflasty
5138 }%
5139 }%
5140 \ifvmode
5141 \leavevmode
5142 \fi
5143 \if@RTL
5144 \if@filesw
5145 \@tempa
5146 \fi
5147 \pdfsavepos

```



```

5148 \else
5149 \pdfsavepos
5150 \if@filesw
5151 \@tempa
5152 \fi
5153 \fi
5154 \if@bidi@csundef{bidi@xpos@@start@\number\bidi@poscount}{%
5155 \PackageWarningNoLine{biditools}{%
5156 The start x position `\'number\bidi@poscount' is not known yet.
5157 Rerun to get this x position%
5158 }%
5159 }{}%
5160 \if@bidi@csundef{bidi@ypos@@start@\number\bidi@poscount}{%
5161 \PackageWarningNoLine{biditools}{%
5162 The start y position `\'number\bidi@poscount' is not known yet.
5163 Rerun to get this y position%
5164 }%
5165 }{}%
5166 }
5167
5168 \newcommand*{\WriteEndXYPostoaux}{%
5169 \edef\@tempa{%
5170 \write\@auxout{%
5171 \string\bidi@pos{x}{end}{\'number\bidi@poscount}{\'noexpand\'number\'noexpand\'pdflastx
5172 }%
5173 \write\@auxout{%
5174 \string\bidi@pos{y}{end}{\'number\bidi@poscount}{\'noexpand\'number\'noexpand\'pdflasty
5175 }%
5176 }%
5177 \if@RTL
5178 \if@filesw
5179 \@tempa
5180 \fi
5181 \pdfsavepos
5182 \else
5183 \pdfsavepos
5184 \if@filesw
5185 \@tempa
5186 \fi
5187 \fi
5188 \if@bidi@csundef{bidi@xpos@@end@\number\bidi@poscount}{%
5189 \PackageWarningNoLine{biditools}{%
5190 The end x position `\'number\bidi@poscount' is not known yet.
5191 Rerun to get this x position%
5192 }%
5193 }{}%
5194 \if@bidi@csundef{bidi@ypos@@end@\number\bidi@poscount}{%
5195 \PackageWarningNoLine{biditools}{%
5196 The end y position `\'number\bidi@poscount' is not known yet.
5197 Rerun to get this y position%
5198 }%
5199 }{}%
5200 }
5201

```



```

5202 \newcommand*{\currentposxwidth}{%
5203   \if@bidi@csundef{bidi@xpos@@end@\number\bidi@poscount}{\z@}
5204   {%
5205     \ifnum\csname bidi@xpos@@start@\number\bidi@poscount
5206       \endcsname < \csname bidi@xpos@@end@\number\bidi@poscount
5207       \endcsname
5208       \dimexpr \csname bidi@xpos@@end@\number\bidi@poscount
5209       \endcsname sp - \csname bidi@xpos@@start@\number\bidi@poscount
5210       \endcsname sp\relax
5211   \else
5212     \dimexpr \csname bidi@xpos@@start@\number\bidi@poscount
5213     \endcsname sp - \csname bidi@xpos@@end@\number\bidi@poscount
5214     \endcsname sp\relax
5215   \fi
5216   }%
5217 }
5218
5219 \newcommand*{\currentposyheight}{%
5220   \if@bidi@csundef{bidi@ypos@@end@\number\bidi@poscount}{\z@}
5221   {%
5222     \dimexpr \csname bidi@ypos@@start@\number\bidi@poscount
5223     \endcsname sp - \csname bidi@ypos@@end@\number\bidi@poscount
5224     \endcsname sp\relax
5225   }%
5226 }
5227
5228
5229
5230 \newcommand*{\setbaselineskip}[1]{%
5231   \linespread{\strip@pt\dimexpr\numexpr\dimexpr#1\relax*65536/\dimexpr\baselineskip\relax}
5232   \selectfont
5233 }
5234
5235
5236 \newcommand*{\bidi@newrobustcmd}{%
5237   \protected\def\bidi@newrobustcmd{\@star@or@long\bidi@new@command}
5238
5239   \def\bidi@new@command#1{\@testopt{\bidi@newcommand#1}0}
5240
5241   \def\bidi@newcommand#1[#2]{%
5242     \@ifnextchar[%]
5243       {\bidi@xargdef#1[#2]}
5244       {\ifx\l@ngrel@x\relax
5245         \let\l@ngrel@x\protected
5246       \else
5247         \protected\def\l@ngrel@x{\protected\long}%
5248       \fi
5249       \@argdef#1[#2]}}
5250
5251   \long\def\bidi@xargdef#1[#2][#3]#4{%
5252     \@ifdefinable#1{%
5253       \expandafter\protected
5254       \expandafter\def
5255       \expandafter#1%

```



```

5256 \expandafter{%
5257 \expandafter\@testopt
5258 \csname\string#1\endcsname{#3}}%
5259 \expandafter\@yargdef\csname\string#1\endcsname\tw@{#2}{#4}}
5260
5261 \bidi@newrobustcmd*{\bidi@renewrobustcmd}{\@star@or@long\bidi@renew@command}
5262
5263 \def\bidi@renew@command#1{%
5264 \if@bidi@undef{#1}
5265 {\bidi@error{\string#1 undefined}\@ehc}
5266 {}%
5267 \let\@ifdefinable\@rc@ifdefinable
5268 \bidi@new@command#1}
5269
5270
5271
5272 \bidi@newrobustcmd*{\bidi@providerobustcmd}{\@star@or@long\bidi@provide@command}
5273
5274 \def\bidi@provide@command#1{%
5275 \if@bidi@undef{#1}
5276 {\def\reserved@a{\bidi@new@command#1}}
5277 {\def\reserved@a{\bidi@renew@command\reserved@a}}%
5278 \reserved@a}
5279
5280 \newcommand*{\bidi@csuse}[1]{%
5281 \ifcsname#1\endcsname
5282 \csname#1\expandafter\endcsname
5283 \fi}
5284
5285 \newcommand{\bidi@expandonce}[1]{%
5286 \unexpanded\expandafter{#1}}
5287
5288 \def\bidi@protected{%
5289 \let\@protect\protect
5290 \let\protect\@unexpandable@protect
5291 \afterassignment\restore@protect}
5292
5293 \bidi@newrobustcmd{\bidi@appto}[2]{%
5294 \if@bidi@undef{#1}
5295 {\edef#1{\unexpanded{#2}}}
5296 {\edef#1{\bidi@expandonce#1\unexpanded{#2}}}}
5297 \bidi@newrobustcmd{\bidi@eappto}[2]{%
5298 \if@bidi@undef{#1}
5299 {\edef#1{#2}}
5300 {\edef#1{\bidi@expandonce#1#2}}}
5301 \bidi@newrobustcmd{\bidi@gappto}[2]{%
5302 \if@bidi@undef{#1}
5303 {\xdef#1{\unexpanded{#2}}}
5304 {\xdef#1{\bidi@expandonce#1\unexpanded{#2}}}}
5305 \bidi@newrobustcmd{\bidi@xappto}[2]{%
5306 \if@bidi@undef{#1}
5307 {\xdef#1{#2}}
5308 {\xdef#1{\bidi@expandonce#1#2}}}
5309

```



```

5310 \bidi@newrobustcmd*{\bidi@protected@eappto}{\bidi@protected\bidi@eappto}
5311 \bidi@newrobustcmd*{\bidi@protected@xappto}{\bidi@protected\bidi@xappto}
5312
5313
5314
5315 \bidi@newrobustcmd{\bidi@preto}[2]{%
5316   \if@bidi@undef{#1}
5317     {\edef#1{\unexpanded{#2}}}
5318     {\edef#1{\unexpanded{#2}\bidi@expandonce#1}}}
5319 \bidi@newrobustcmd{\bidi@epreto}[2]{%
5320   \if@bidi@undef{#1}
5321     {\edef#1{#2}}
5322     {\edef#1{#2\bidi@expandonce#1}}}
5323 \bidi@newrobustcmd{\bidi@gpreto}[2]{%
5324   \if@bidi@undef{#1}
5325     {\xdef#1{\unexpanded{#2}}}
5326     {\xdef#1{\unexpanded{#2}\bidi@expandonce#1}}}
5327 \bidi@newrobustcmd{\bidi@xpreto}[2]{%
5328   \if@bidi@undef{#1}
5329     {\xdef#1{#2}}
5330     {\xdef#1{#2\bidi@expandonce#1}}}
5331
5332 \bidi@newrobustcmd*{\bidi@protected@epreto}{\bidi@protected\bidi@epreto}
5333 \bidi@newrobustcmd*{\bidi@protected@xpreto}{\bidi@protected\bidi@xpreto}
5334
5335
5336
5337 \bidi@newrobustcmd*{\bidi@csappto}[1]{\expandafter\bidi@appto\csname#1\endcsname}
5338 \bidi@newrobustcmd*{\bidi@cseappto}[1]{\expandafter\bidi@eappto\csname#1\endcsname}
5339 \bidi@newrobustcmd*{\bidi@csgappto}[1]{\expandafter\bidi@gappto\csname#1\endcsname}
5340 \bidi@newrobustcmd*{\bidi@csxappto}[1]{\expandafter\bidi@xappto\csname#1\endcsname}
5341 \bidi@newrobustcmd*{\bidi@protected@cseappto}{\bidi@protected\bidi@cseappto}
5342 \bidi@newrobustcmd*{\bidi@protected@csxappto}{\bidi@protected\bidi@csxappto}
5343
5344
5345
5346 \bidi@newrobustcmd*{\bidi@cspreto}[1]{\expandafter\bidi@preto\csname#1\endcsname}
5347 \bidi@newrobustcmd*{\bidi@csepreto}[1]{\expandafter\bidi@epreto\csname#1\endcsname}
5348 \bidi@newrobustcmd*{\bidi@csgpreto}[1]{\expandafter\bidi@gpreto\csname#1\endcsname}
5349 \bidi@newrobustcmd*{\bidi@csxpreto}[1]{\expandafter\bidi@xpreto\csname#1\endcsname}
5350 \bidi@newrobustcmd*{\bidi@protected@csepreto}{\bidi@protected\bidi@csepreto}
5351 \bidi@newrobustcmd*{\bidi@protected@csxpreto}{\bidi@protected\bidi@csxpreto}
5352
5353
5354
5355 \bidi@newrobustcmd{\if@bidi@patchable}{%
5356   \bidi@dbg@trce\if@bidi@patchable
5357   \begingroup
5358     \@makeother\%#
5359     \@ifstar\bidi@ifpatchable@i\bidi@ifpatchable}
5360
5361 \long\def\bidi@ifpatchable#1#2{%
5362   \endgroup
5363   \bidi@dbg@init#1%

```



```

5364 \if@bidi@undef{#1}
5365   {\bidi@dbg@fail{def}\@secondoftwo}
5366   {\bidi@dbg@info{def}%
5367     \if@bidi@defmacro{#1}
5368       {\bidi@dbg@info{mac}%
5369         \bidi@ifscanable{#1}
5370           {\bidi@ifhashcheck{#2}
5371             {\bidi@dbg@info{tok}%
5372               \bidi@ifpattern#1{#2}
5373                 {\bidi@dbg@info{pat}%
5374                   \bidi@dbg@info{pos}\@firstoftwo}
5375                 {\bidi@dbg@fail{pat}\@secondoftwo}}
5376               {\bidi@dbg@fail{hsh}\@secondoftwo}}
5377             {\bidi@dbg@fail{tok}\@secondoftwo}}
5378             {\bidi@dbg@fail{mac}\@secondoftwo}}}}
5379
5380 \long\def\bidi@ifpatchable@i#1{%
5381   \endgroup
5382   \bidi@dbg@init#1%
5383   \if@bidi@undef{#1}
5384     {\bidi@dbg@fail{def}\@secondoftwo}
5385     {\bidi@dbg@info{def}%
5386       \if@bidi@defmacro{#1}
5387         {\bidi@dbg@info{mac}%
5388           \if@bidi@defparam{#1}
5389             {\bidi@dbg@info{prm}%
5390               \bidi@ifscanable{#1}
5391                 {\bidi@dbg@info{tok}%
5392                   \bidi@dbg@info{pos}\@firstoftwo}
5393                 {\bidi@dbg@fail{tok}\@secondoftwo}}
5394               {\bidi@dbg@info{prl}%
5395                 \if@bidi@defprotected{#1}
5396                   {\bidi@dbg@info{pro}}
5397                   {}%
5398                 \bidi@dbg@info{pos}\@firstoftwo}}
5399               {\bidi@dbg@fail{mac}\@secondoftwo}}}}
5400
5401 \bidi@newrobustcmd*{\bidi@patchcmd}{%
5402   \bidi@dbg@trce\bidi@patchcmd
5403   \begingroup
5404   \@makeother\#%
5405   \bidi@@patchcmd}
5406
5407 \newcommand{\bidi@@patchcmd}[4][#####1]{%
5408   \bidi@ifpatchable#2{#3}
5409   {\bidi@dbg@succ{ret}%
5410     \begingroup
5411     \edef\bidi@resrvda{%
5412       \def\noexpand\bidi@resrvda#####1\detokenize{macro:}#####2->#####3&{%
5413         #1\def\string\bidi@resrvda\space####2{\noexpand\bidi@resrvdb#####3&}}%
5414       \def\noexpand\bidi@resrvdb#####1\detokenize{#3}#####2&{%
5415         #####1\detokenize{#4}#####2}%
5416       \edef\noexpand\bidi@resrvda{%
5417         \noexpand\bidi@resrvda\meaning#2&}}%

```



```

5418 \bidi@resrvda
5419 \bidi@patchcmd@scantoks\bidi@resrvda
5420 \let#2\bidi@resrvda
5421 \bidi@undef\bidi@resrvda
5422 \@firstoftwo}
5423 {\@secondoftwo}}
5424
5425 \def\bidi@patchcmd@scantoks#1{%
5426 \edef\bidi@resrvda{\endgroup
5427 \unexpanded{\makeatletter\scantokens}{#1}%
5428 \catcode\number`\@=\the\catcode`\@ \relax}%
5429 \bidi@resrvda}
5430
5431 \newcommand\bidi@isloaded[2][]{
5432 \expandafter\ifx\csname if@bidi@#2loaded@\endcsname\relax
5433 \expandafter\newif\csname if@bidi@#2loaded@\endcsname
5434 \fi
5435 \@ifpackageloaded{#2}
5436 {\csname @bidi@#2loaded@true\endcsname #1}
5437 {\csname @bidi@#2loaded@false\endcsname}}
5438
5439 \protected\def\bidi@ifscanable#1{%
5440 \begingroup
5441 \edef\bidi@resrvda{%
5442 \def\noexpand\bidi@resrvda####1\detokenize{macro}:####2->####3&{%
5443 ####1\def\string\bidi@resrvda####2{####3}}}%
5444 \edef\noexpand\bidi@resrvda{\noexpand\bidi@resrvda\meaning#1&}}%
5445 \bidi@resrvda
5446 \makeatletter
5447 \scantokens\expandafter{\bidi@resrvda}%
5448 \expandafter\endgroup\ifx#1\bidi@resrvda
5449 \expandafter\@firstoftwo
5450 \else
5451 \expandafter\@secondoftwo
5452 \fi}
5453
5454
5455 \protected\long\def\bidi@ifhashcheck#1{%
5456 \begingroup
5457 \edef\bidi@resrvda{\detokenize{#1}}%
5458 \expandafter\endgroup
5459 \expandafter\bidi@ifhashcheck@i\meaning\bidi@resrvda&}
5460
5461 \edef\bidi@ifhashcheck@i#1&{%
5462 \noexpand\expandafter
5463 \noexpand\bidi@ifhashcheck@ii
5464 \noexpand\strip@prefix#1\string#\string#&}
5465
5466 \edef\bidi@ifhashcheck@ii{%
5467 \def\noexpand\bidi@ifhashcheck@ii##1\string#\string###2&}
5468 \bidi@ifhashcheck@ii{\if@bidi@blank{#2}}
5469
5470
5471 \protected\long\def\bidi@ifpattern#1#2{%

```



```

5472 \begingroup
5473 \edef\bidi@resrvda{%
5474   \def\noexpand\bidi@resrvda####1\detokenize{#2}####2&{%
5475     \endgroup\noexpand\noexpand\noexpand\if@bidi@blank{####2}}}%
5476 \edef\noexpand\bidi@resrvda{\noexpand\bidi@resrvda
5477   \expandafter\strip@prefix\meaning#1\detokenize{#2}&}%
5478   \noexpand\bidi@resrvda}
5479 \bidi@resrvda\@secondoftwo\@firstoftwo}
5480
5481
5482 \newcommand{\if@bidi@defparam}{%
5483   \long\edef\if@bidi@defparam#1{%
5484     \noexpand\expandafter\noexpand\bidi@ifdefparam
5485     \noexpand\meaning#1\detokenize{macro}:->&}
5486 \edef\bidi@ifdefparam{%
5487   \def\noexpand\bidi@ifdefparam##1\detokenize{macro}:##2->##3&}
5488 \bidi@ifdefparam{\bidi@notblank{#2}}
5489
5490
5491 \newcommand{\if@bidi@defprotected}{%
5492   \long\edef\if@bidi@defprotected#1{%
5493     \noexpand\expandafter\noexpand\bidi@ifdefprotected
5494     \noexpand\meaning#1|string\protected&}
5495 \edef\bidi@ifdefprotected{%
5496   \def\noexpand\bidi@ifdefprotected##1|string\protected##2&}
5497 \bidi@ifdefprotected{\bidi@notblank{#2}}
5498
5499
5500 \bidi@newrobustcmd{\bidi@undef}[1]{\let#1\bidi@undefined}
5501 \bidi@newrobustcmd{\bidi@csundef}[1]{%
5502   \expandafter\let\csname #1\endcsname\bidi@undefined
5503 }
5504
5505 \let\bidi@dbg@trce\@gobble
5506 \let\bidi@dbg@init\@gobble
5507 \let\bidi@dbg@info\@gobble
5508 \let\bidi@dbg@succ\@gobble
5509 \let\bidi@dbg@fail\@gobble
5510
5511
5512
5513 \bidi@newrobustcmd*{\bidi@apptocmd}{%
5514   \bidi@dbg@trce\bidi@apptocmd
5515   \begingroup
5516   \@makeother\#%
5517   \bidi@hooktocmd\bidi@append}
5518
5519
5520
5521 \bidi@newrobustcmd*{\bidi@pretocmd}{%
5522   \bidi@dbg@trce\bidi@pretocmd
5523   \begingroup
5524   \@makeother\#%
5525   \bidi@hooktocmd\bidi@prepend}

```



```

5526
5527 \long\def\bidihooktocmd#1#2#3{%
5528   \endgroup
5529   \bidi@dbg@init#2%
5530   \if@bidi@undef{#2}
5531     {\bidi@dbg@fail{def}\@secondoftwo}
5532     {\bidi@dbg@info{def}%
5533       \if@bidi@defmacro{#2}
5534         {\bidi@dbg@info{mac}%
5535           \if@bidi@defparam{#2}
5536             {\bidi@dbg@info{prm}%
5537               \bidi@ifscanable{#2}
5538                 {\bidi@ifhashcheck{#3}
5539                   {\bidi@dbg@info{tok}%
5540                     \bidi@dbg@succ{ret}%
5541                     \bidi@hooktocmd@i#1#2{#3}%
5542                     \@firstoftwo}
5543                   {\bidi@dbg@fail{hsh}\@secondoftwo}}
5544                 {\bidi@dbg@fail{tok}\@secondoftwo}}
5545             {\bidi@dbg@info{prl}%
5546               \if@bidi@defprotected{#2}
5547                 {\bidi@dbg@info{pro}%
5548                   \bidi@dbg@succ{red}%
5549                   \protected}
5550                 {\bidi@dbg@succ{red}}}%
5551             \edef#2{#1{\bidi@expandonce#2}{\unexpanded{#3}}}%
5552             \@firstoftwo}}
5553     {\bidi@dbg@fail{mac}\@secondoftwo}}
5554
5555 \long\def\bidihooktocmd@i#1#2#3{%
5556   \begingroup
5557   \edef\bidi@resrvda{%
5558     \def\noexpand\bidi@resrvda####1\detokenize{macro}:####2->####3&{%
5559       ####1\def\string\bidi@resrvda\space####2{#1{####3}{\detokenize{#3}}}}%
5560     \edef\noexpand\bidi@resrvda{%
5561       \noexpand\bidi@resrvda\meaning#2&}}%
5562   \bidi@resrvda
5563   \bidi@patchcmd@scantoks\bidi@resrvda
5564   \let#2\bidi@resrvda
5565   \bidi@undef\bidi@resrvda}
5566
5567 \long\def\bidi@append#1#2{#1#2}
5568 \long\def\bidi@prepend#1#2{#2#1}
5569
5570 %\bidi@newrobustcmd*{\bidi@AtEndPreamble}{\bidi@gappto\bidi@endpreamblehook}
5571 %\newcommand*{\bidi@endpreamblehook}{}
5572
5573 \bidi@newrobustcmd*{\bidi@AtEndPreamble}{\AddToHook{begindocument/before}}%
5574
5575 \bidi@newrobustcmd*{\bidi@BeforeOutputPageShipOut}{\bidi@gappto\bidi@beforeoutputpageshipout}
5576 \newcommand*{\bidi@beforeoutputpageshipouthook}{}
5577
5578 \bidi@newrobustcmd*{\bidi@BeforeHeader}{\bidi@gappto\bidi@beforeheaderhook}
5579 \newcommand*{\bidi@beforeheaderhook}{}

```



```

5580
5581 \bidi@newrobustcmd*{\bidi@BeforeOutputBoxOutputPage}{\bidi@gappto\bidi@BeforeOutputBoxOutputPage}{}
5582 \newcommand*{\bidi@BeforeOutputBoxOutputPagehook}{}
5583
5584 \bidi@newrobustcmd*{\bidi@AfterOutputBoxOutputPage}{\bidi@gappto\bidi@AfterOutputBoxOutputPage}{}
5585 \newcommand*{\bidi@AfterOutputBoxOutputPagehook}{}
5586
5587 \bidi@newrobustcmd*{\bidi@BeforeFooter}{\bidi@gappto\bidi@BeforeFooterhook}{}
5588 \newcommand*{\bidi@BeforeFooterhook}{}
5589
5590 \bidi@newrobustcmd*{\bidi@AfterFooter}{\bidi@gappto\bidi@AfterFooterhook}{}
5591 \newcommand*{\bidi@AfterFooterhook}{}
5592
5593
5594 \bidi@newrobustcmd*{\bidi@AfterOutputPageShipOut}{\bidi@gappto\bidi@AfterOutputPageShipOut}{}
5595 \newcommand*{\bidi@AfterOutputPageShipOuthook}{}
5596
5597 \bidi@newrobustcmd*{\bidi@AtEndOutputPage}{\bidi@gappto\bidi@AtEndOutputPagehook}{}
5598 \newcommand*{\bidi@AtEndOutputPagehook}{}
5599
5600 %\bidi@preto\document{%
5601 % \endgroup
5602 % \let\bidi@AtEndPreamble\@firstofone
5603 % \bidi@endpreamblehook
5604 % \protected\def\bidi@AtEndPreamble{\@notprerr\@gobble}%
5605 % \bidi@undef\bidi@endpreamblehook
5606 % \beginingroup}
5607
5608 \bidi@newrobustcmd*{\bidi@AfterPreamble}{\AtBeginDocument}{}
5609 \bidi@AtEndPreamble{\let\bidi@AfterPreamble\@firstofone}{}
5610
5611 %\bidi@newrobustcmd*{\bidi@AfterEndPreamble}{\bidi@gappto\bidi@AfterEndPreamblehook}{}
5612 %\newcommand*{\bidi@AfterEndPreamblehook}{}
5613
5614 \bidi@newrobustcmd*{\bidi@AfterEndPreamble}{\AddToHook{begindocument/end}}{}
5615
5616 %\bidi@appto\document{%
5617 % \let\bidi@AfterEndPreamble\@firstofone
5618 % \bidi@afterendpreamblehook
5619 % \protected\def\bidi@AfterEndPreamble{\@notprerr\@gobble}%
5620 % \bidi@undef\bidi@afterendpreamblehook
5621 % \ignorespaces}
5622
5623 \bidi@newrobustcmd*{\bidi@AfterEndDocumentCheckLabelsRerun}{\bidi@gappto\bidi@AfterEndDocumentCheckLabelsRerun}{}
5624 \newcommand*{\bidi@AfterEndDocumentCheckLabelsRerunhook}{}
5625
5626 \bidi@patchcmd\enddocument
5627 {\fi}
5628 {\let\bidi@AfterEndDocumentCheckLabelsRerun\@firstofone
5629 \bidi@afterenddocumentchecklabelsrerunhook
5630 \fi}
5631 {}
5632 {\PackageWarning{biditools}{Patching `string\enddocument' failed}}
5633

```



```

5634 \AtEndDocument{\let\bid@AfterEndPreamble\@gobble}
5635
5636 \bid@newrobustcmd*{\bid@AfterLastShipout}{\bid@gappto\bid@afterlastshipouthook}
5637 \newcommand*{\bid@afterlastshipouthook}{\}
5638
5639 \bid@patchcmd\enddocument
5640 {\clearpage}
5641 {\clearpage
5642 \let\bid@AfterLastShipout\@firstofone
5643 \bid@afterlastshipouthook}
5644 {}
5645 {\let\bid@clearpage\clearpage
5646 \def\clearpage{%
5647 \bid@clearpage
5648 \let\bid@AfterLastShipout\@firstofone
5649 \bid@afterlastshipouthook}}
5650
5651 %\bid@newrobustcmd*{\bid@AfterEndDocument}{\bid@gappto\bid@afterenddocumenthook}
5652 %\newcommand*{\bid@afterenddocumenthook}{\}
5653
5654 \bid@newrobustcmd*{\bid@AfterEndDocument}{\AddToHook{enddocument/end}}%
5655
5656 %\bid@patchcmd\enddocument
5657 % {\deadcycles}
5658 % {\let\bid@AfterEndDocument\@firstofone
5659 % \bid@afterenddocumenthook
5660 % \deadcycles}
5661 % {}
5662 % {\let\bid@@end\@end
5663 % \def\@end{%
5664 % \let\bid@AfterEndDocument\@firstofone
5665 % \bid@afterenddocumenthook
5666 % \bid@@end}}
5667
5668 \bid@newrobustcmd{\bid@AtBeginEnvironment}[1]{%
5669 \bid@csgappto{\bid@begin@#1@hook}}
5670
5671 % Patch \begin<space> and \end<space> in newer LaTeX releases
5672 % \begin and \end in older ones.
5673 \expandafter\bid@patchcmd\csname begin\ifcsname begin \endcsname\space\fi\endcsname
5674 {\csname #1\endcsname}
5675 {\bid@csuse{\bid@begin@#1@hook}}%
5676 \csname #1\endcsname}
5677 {}
5678 {\bid@warning{%
5679 Patching '\string\begin' failed!\MessageBreak
5680 '\string\bid@AtBeginEnvironment' will not work\@gobble}}
5681
5682
5683
5684 \bid@newrobustcmd{\bid@AtEndEnvironment}[1]{%
5685 \bid@csgappto{\bid@end@#1@hook}}
5686
5687 \expandafter\bid@patchcmd\csname end\ifcsname end \endcsname\space\fi\endcsname

```



```

5688 {\csname end#1\endcsname}
5689 {\bidi@csuse{@bidi@end@#1@hook}%
5690 \csname end#1\endcsname}
5691 {}
5692 {\bidi@warning{%
5693   Patching '\string\end' failed!\MessageBreak
5694   '\string\bidi@AtEndEnvironment' will not work\@gobble}}
5695
5696
5697
5698 \bidi@newrobustcmd{\bidi@BeforeBeginEnvironment}[1]{%
5699 \bidi@csgappto{@bidi@beforebegin@#1@hook}}
5700
5701 \expandafter\bidi@pretocmd\csname begin\ifcsname begin \endcsname\space\fi\endcsname
5702 {\bidi@csuse{@bidi@beforebegin@#1@hook}}
5703 {}
5704 {\bidi@warning{%
5705   Patching '\string\begin' failed!\MessageBreak
5706   '\string\bidi@BeforeBeginEnvironment' will not work\@gobble}}
5707
5708 \bidi@newrobustcmd{\bidi@AfterEndEnvironment}[1]{%
5709 \bidi@csgappto{@bidi@afterend@#1@hook}}
5710
5711 \expandafter\bidi@patchcmd\csname end\ifcsname end \endcsname\space\fi\endcsname
5712 {\if@ignore}
5713 {\bidi@csuse{@bidi@afterend@#1@hook}%
5714 \if@ignore}
5715 {}
5716 {\bidi@warning{%
5717   Patching '\string\end' failed!\MessageBreak
5718   '\string\bidi@AfterEndEnvironment' will not work\@gobble}}
5719
5720 \def\bidi@namedef#1{\expandafter\def\csname #1\endcsname}
5721 \def\bidi@namegdef#1{\expandafter\gdef\csname #1\endcsname}
5722 \def\bidi@nameedef#1{\expandafter\edef\csname #1\endcsname}
5723 \def\bidi@namexdef#1{\expandafter\xdef\csname #1\endcsname}
5724
5725 % From David Carlisle:
5726 % The \stpelt redefinition below belongs to Heiko Oberdiek
5727 % See also https://github.com/ho-tex/oberdiek/issues/26
5728
5729 \let\@bidi@stepcounter\stepcounter
5730 \let\@bidi@@stpelt\stpelt
5731
5732 \def\@stpelt#1{%
5733 \ifcsname bidi@reset@#1@perpage\endcsname
5734 \begingroup
5735 \let\stepcounter\@bidi@stepcounter
5736 \@bidi@@stpelt{#1}%
5737 \endgroup
5738 \expandafter\@gobbletwo
5739 \fi
5740 \@bidi@@stpelt{#1}%
5741 }

```



```

5742
5743 \bidi@pretocmd\stepcounter
5744 {%
5745     \if@bidi@csundef\bidi@stepcounterhook@@#1\}{%
5746         \csname bidi@stepcounterhook@@#1\endcsname
5747     }%
5748 }{%
5749     {\PackageWarning{biditools}{Patching `string\stepcounter' failed}}
5750
5751 \chardef\bidi@backslash`\\
5752 \def\bidics#1{\texttt{\char\bidi@backslash#1}}
5753
5754 % anonymous control sequences
5755 \newcount\bidi@tempcountb
5756 \newtoks\bidi@temptoksa
5757 \newtoks\bidi@temptoksb
5758
5759 % Catcode (re)storing
5760 %
5761 \def\bidi@storecatcode#1%
5762     {\escapechar\m@ne
5763     \bidi@csarg\edef\bidi@restorecatcode\string#1}%
5764     {\catcode`\string#1=
5765         \the\catcode\expandafter`\string#1}%
5766     \catcode\expandafter`\string#1=12\relax
5767     \escapechar`\\ \relax}
5768 \def\bidi@restorecatcode#1%
5769     {\escapechar\m@ne
5770     \csname bidi@restorecatcode\string#1\endcsname
5771     \escapechar`\\ \relax}
5772
5773 % Construct a control sequence inside \edef
5774 %
5775 \def\bidi@csname#1{\expandafter\noexpand\csname#1\endcsname}
5776
5777 % Construct a control sequence out of #2, and give it to #1
5778 %
5779 \def\bidi@csarg#1#2{\expandafter#1\csname#2\endcsname}
5780
5781 % Pick an escapecharacter
5782 % this presumes that its argument is a character.
5783 %
5784 \def\bidi@pickescape#1{\ifnum`#1=\escapechar\else#1\fi}
5785
5786 % Equality of strings.
5787 % the fast approach: does not work in expansion-only environment.
5788 %
5789 \def\bidi@EqualString#1#2{00\fi\def\bidi@eqs@a{#1}\def\bidi@eqs@b{#2}%
5790     \ifx\bidi@eqs@a\bidi@eqs@b}
5791
5792 % Test by expansion only
5793 %
5794 \def\bidi@EqualStringX#1#2{00\fi
5795     \csname if\bidi@EqualStringX#1&#2&\endcsname}

```



```

5796 \def\@bidi@EqualStringX#1#2$#3#4$ {\ifx#1#3%
5797     \ifx#1&true\else\@bidi@hop@ES\@bidi@EqualStringX#2$#4$\fi
5798     \else false\fi}
5799 \def\@bidi@hop@ES#1\fi#2\fi {\fi\fi#1}
5800
5801 % Lexicographic ordering
5802 % note the use of \def
5803 % also note the characters 0,127,255 that are used,
5804 % these are not supposed to appear in the strings
5805 %
5806 {\catcode0=12 \catcode255=12 \catcode127=12
5807 \gdef\@bidi@StringBeforeNC#1#2{00\fi
5808 \bidi@CharsBefore#1^^@^^?#2^^ff^^?}
5809 \gdef\@bidi@CharsBeforeNC#1#2^^?#3#4^^?{%
5810 \ifcat#1\relax\def\bidi@next{\bidi@CharsBefore#2^^@^^?#3#4^^ff^^?}%
5811 \else\ifcat#3\relax\def\bidi@next{\bidi@CharsBefore#1#2^^@^^?#4^^ff^^?}%
5812 \else\ifnum\lccode`#1<\lccode`#3
5813 \def\bidi@next{\csname iftrue\endcsname}%
5814 \else\ifnum\lccode`#1>\lccode`#3
5815 \def\bidi@next{\csname iffalse\endcsname}%
5816 \else\def\bidi@next{\bidi@CharsBefore#2^^?#4^^?}%
5817 \fi \fi \fi \fi
5818 \bidi@next}
5819 \gdef\@bidi@StringBefore#1#2{00\fi
5820 \bidi@CharsBefore#1^^@^^?#2^^ff^^?}
5821 \gdef\@bidi@CharsBefore#1#2^^?#3#4^^?{%
5822 \ifnum`#1<`#3
5823 \def\bidi@next{\csname iftrue\endcsname}%
5824 \else\ifnum`#1>`#3
5825 \def\bidi@next{\csname iffalse\endcsname}%
5826 \else\def\bidi@next{\bidi@CharsBefore#2^^?#4^^?}%
5827 \fi\fi
5828 \bidi@next}
5829 }
5830
5831 % Null argument test
5832 %
5833 \def\@bidi@empty{}
5834 \def\@bidi@ifempty#1{00\fi\expandafter\ifx\csname bidi@#1@null\endcsname\bidi@null}
5835 \def\@bidi@ifEmptyX#1{\expandafter\ifx\csname bidi@#1@null\endcsname\bidi@null}
5836 %\def\@bidi@ifEmpty#1{\def\bidi@cs@a{#1}\ifx\bidi@cs@a\bidi@empty}
5837 \def\@bidi@IsEmptyList#1{00\fi\def\bidi@cs@a{#1}\ifx\cs@a\bidi@empty}
5838
5839 % Next character test
5840 %
5841 \def\@bidi@NextChar#1#2#3{00\fi
5842 \let\bidi@nxt@ch#1\def\bidi@nxt@a{#2}\def\bidi@nxt@b{#3}%
5843 \futurelet\bidi@nxt@c\@bidi@ifnxtc}
5844 \def\@bidi@ifNextChar#1#2#3{%
5845 \let\bidi@nxt@ch#1\def\bidi@nxt@a{#2}\def\bidi@nxt@b{#3}%
5846 \futurelet\bidi@nxt@c\@bidi@ifnxtc}
5847 \def\@bidi@ifnxtc{\ifx\bidi@nxt@ch\bidi@nxt@c \expandafter\bidi@nxt@a
5848 \else \expandafter\bidi@nxt@b \fi}
5849

```



```

5850 % Test for defined-ness of string as control sequence.
5851 % works inside \edef
5852 %
5853 \def\bid@undefinedcs#1{00\fi\bid@csarg\ifx{#1}\relax}
5854
5855 % Define uniquely defined dummy macros,
5856 % usually to serve as bumper blocks at the end of a list
5857 %
5858 \newcount\bid@dummies
5859 \def\DefNewDummy#1{
5860   \if\bid@undefinedcs{#1}\bid@csarg\edef{#1}{\bid@dum\the\bid@dummies}
5861   \advance\bid@dummies\@ne
5862   \else
5863     \bid@error{Attempt at second definition of `#1'}
5864   \fi}
5865
5866 % string case statement
5867 % use: \bid@switch \iftest{...} in:
5868 %   item1 action1
5869 %   ...
5870 %   itemn actionn
5871 %   default defaultaction [optional]
5872 %   \endbid@switch
5873 % inspired by Jonathan Fine: Some Basic Control Macros
5874 % Tugboat 12 #4
5875 %
5876 \let\@bid@fi\fi \let\endbid@switch\relax \DefNewDummy{\bid@default}
5877 \def\bid@switch@exit #1 \@bid@fi #2 \endbid@switch {\fi #1}
5878 \def\bid@switch #1#2#3{\bid@csarg\ifx{#2}\bid@default\bid@switch@exit #3 \@bid@fi
5879 #1{#2}\bid@switch@exit #3 \@bid@fi
5880 \bid@switch {#1}
5881 }
5882 % this version puts the test object in {}
5883 \def\bid@oswitch #1 in: #2 #3; {\bid@csarg\ifx{#2}\bid@default\bid@switch@exit #3 \@bid@fi
5884 #1{#2}\bid@switch@exit #3 \@bid@fi
5885 \bid@switch #1 in:
5886 }
5887 % this version assumes that the test object is just one character
5888 \def\bid@cswitch #1 in: #2 #3; {\bid@csarg\ifx{#2}\bid@default\bid@switch@exit #3 \@bid@fi
5889 #1#2\bid@switch@exit #3 \@bid@fi
5890 \bid@cswitch #1 in:
5891 }
5892 % this version assumes that the test object can have an optional space
5893 \def\bid@bswitch #1 in: #2 #3; {\bid@csarg\ifx{#2}\bid@default\bid@switch@exit #3 \@bid@fi
5894 #1#2 \bid@switch@exit #3 \@bid@fi
5895 \bid@bswitch #1 in:
5896 }
5897 % this version can cope with significant spaces at the start of #3;
5898 % #2 is macro argument
5899 \def\bid@mswitch #1 in: #2:#3; {\bid@csarg\ifx{#2}\bid@default\bid@switch@exit #3 \@bid@fi
5900 #1{#2}\bid@switch@exit #3 \@bid@fi
5901 \bid@mswitch #1 in:
5902 }
5903 % idem; #2 does not have to be enclosed in braces

```



```

5904 \def\bidifswitch #1 in: #2:#3; {\bidi@csarg\ifx{#2}\bidi@default\bidi@switch@exit #3 \bidi
5905 #1#2 \bidi@switch@exit #3 \bidi@fi
5906 \bidifswitch #1 in:
5907 }
5908
5909 % Routines for taking the value of a string:
5910 % if the string is defined as control sequence
5911 % take the value of that, otherwise take the string itself
5912
5913 % String or value of control sequence
5914 %
5915 \def\bidi@w@w#1{\if\bidi@undefinedcs{#1}#1\else \the\csname#1\endcsname\fi}
5916
5917 % String or control sequence
5918 %
5919 \def\bidi@ww#1{\if\bidi@undefinedcs{#1}#1\else \csname#1\endcsname \fi}
5920
5921 % String or \noexpand-ed control sequence;
5922 % for use in \edef
5923 %
5924 \newif\ifbidi@in@label
5925 \def\@bidi@w@w#1{\if\bidi@undefinedcs{#1}#1\else
5926 \ifbidi@in@label\noexpand\protect\fi \bidi@csname{#1}\fi}
5927 \newtoks\bidi@are@these@correct
5928 \def\bidi@t@w@w#1{%
5929 \if\bidi@undefinedcs{#1}#1%
5930 \ifdefining\bidi@append@to@list\bidi@are@these@correct{#1 }\fi
5931 \else
5932 \ifin@label\noexpand\protect\fi \bidi@csname{#1}\fi}
5933
5934 % List Manipulation .....
5935 % this assumes that #1 is a list of tokens, #2 is the name of a list
5936 %
5937 % Names of lists (and of items to pop into) are given as strings;
5938 % not as control sequences.
5939 %
5940 \newtoks\bidi@toks@lista \newtoks\bidi@toks@listb
5941 % basic append/prepend macro
5942 \long\def\@bidi@append@to@cslist#1#2#3{\begingroup\bidi@toks@lista=#2{#3}%
5943 \global#1=\expandafter\expandafter\expandafter{\expandafter\the\expandafter#1\the\bidi@toks@listb}
5944 \long\def\@bidi@prepend@to@cslist#1#2#3{\begingroup\bidi@toks@lista=#2{#3}%
5945 \global#1=\expandafter\expandafter\expandafter{\expandafter\the\expandafter\bidi@toks@listb}
5946 \def\@bidi@append@to@list{\bidi@csarg\@bidi@append@to@cslist}
5947 \def\@bidi@prepend@to@list{\bidi@csarg\@bidi@prepend@to@cslist}
5948 % variations:
5949 \long\def\bidi@append@to@list#1#2{\@bidi@append@to@list{#1}{#2}}
5950 \long\def\bidi@prepend@to@list#1#2{\@bidi@prepend@to@list{#1}{#2}}
5951 \def\bidi@append@list@to@list#1#2{%
5952 \@bidi@append@to@list{#1}{\expandafter\expandafter\expandafter{\expandafter\the\csname#2\endcsname}}
5953 \def\bidi@prepend@list@to@list#1#2{%
5954 \@bidi@prepend@to@list{#1}{\expandafter\expandafter\expandafter{\expandafter\the\csname#2\endcsname}}
5955 \def\bidi@append@cslist@to@cslist#1#2{%
5956 \@bidi@append@to@cslist{#1}\expandafter{\the#2}}
5957 \def\bidi@prepend@cslist@to@cslist#1#2{%

```



```

5958 \@bidi@prepend@to@cslst{#1}\expandafter{\the#2}}
5959 \def\bidi@append@toks@cs@to@list#1#2{\@bidi@append@to@list{#1}\expandafter{\the#2}}
5960 \def\bidi@prepend@toks@cs@to@list#1#2{\@bidi@prepend@to@list{#1}\expandafter{\the#2}}
5961
5962 \let\bidi@willbeunhskip\unhskip
5963
5964 % A few list macros for the user
5965 \def\NewTokenList:#1 {\bidi@csarg\newtoks{#1}\global\csname#1\endcsname{}}
5966 \def\EmptyTokenList:#1 {\global\csname#1\endcsname{}}
5967 \long\def\AppendToTokenList:#1=#2 {\@bidi@append@to@list{#1}{#2}}
5968 \long\def\PrependToTokenList:#1=#2 {\@bidi@prepend@to@list{#1}{#2}}
5969 \def\TheTokenList:#1 {\let\bidi@oldwbuskip\bidi@willbeunhskip \let\bidi@willbeunhskip\@empty
5970 \if\bidi@undefinedcs{#1}\bidi@error{Token List <#1> undefined}
5971 \else\bidi@csarg\the{#1}\fi
5972 \let\bidi@willbeunhskip\bidi@oldwbuskip}
5973
5974 \def\bidi@del@tok@from@list#1#2{\begingroup
5975 \long\def\bidi@cs@liste##1#2##2\bidi@tok@SM
5976 {\bidi@toks@lista{##1}\bidi@toks@listb{##2}%
5977 \edef\bidi@cs@listb{\global\bidi@csname{#1}=
5978 {\the\bidi@toks@lista\the\bidi@toks@listb}}%
5979 \bidi@cs@listb}%
5980 \edef\bidi@cs@lista{\noexpand\bidi@cs@liste}\expandafter\the\csname#1\endcsname\noexpand
5981 \bidi@cs@lista \endgroup}
5982 \def\bidi@in@front@of@list#1{\bidi@csarg{\let\expandafter\bidi@cs@lista}{#1}%
5983 \bidi@in@front@of@cslst\bidi@cs@lista}
5984 \long\def\bidi@in@front@of@cslst#1#2{\begingroup\bidi@toks@lista={#2}%
5985 \global#1=\expandafter\expandafter\expandafter{\expandafter\the\expandafter\bidi@toks@list
5986 \endgroup}
5987 \long\def\bidi@local@in@front@of@list#1#2{\bidi@toks@lista={#2}%
5988 \csname#1\endcsname\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter
5989 {\expandafter\expandafter\expandafter\the\expandafter\expandafter\expandafter
5990 \expandafter\the\csname#1\endcsname}%
5991 }
5992 \def\bidi@set@list#1{\bidi@csarg{\let\expandafter\bidi@cs@lista}{#1}%
5993 \bidi@set@cslst\bidi@cs@lista}
5994 \long\def\bidi@set@cslst#1#2{\begingroup\bidi@toks@lista={#2}%
5995 \global#1=\expandafter{\the\bidi@toks@lista}\endgroup}
5996
5997 %%%%%%%%%%%%%%% Stack macros
5998 %
5999 % push in terms of prepending of lists
6000 \def\bidi@push@cs@onto@cs#1#2{\@bidi@prepend@to@cslst#1\expandafter{\expandafter\\expandafter
6001 \def\bidi@push@onto#1{\bidi@csarg\bidi@push@onto@cs{#1}}
6002 \def\bidi@push@onto@cs#1#2{\@bidi@prepend@to@cslst#1}{\{#2}}
6003 \def\bidi@local@push@onto#1#2{\let\\=\relax
6004 \bidi@local@in@front@of@list{#1}{\{#2}}
6005 % pop via auxiliary macro: #1 is result, #2 is stack
6006 % two cs arguments
6007 \def\bidi@pop@cs@into#1#2{\edef\bidi@cs@e
6008 {\noexpand\@bidi@popinto\noexpand#1\noexpand#2\the#2\noexpand\@bidi@pop}\bidi@cs@e}
6009 % two string arguments
6010 \def\bidi@pop@into#1#2{\edef\bidi@cs@e
6011 {\noexpand\@bidi@popinto\bidi@csname{#1}\bidi@csname{#2}\bidi@csarg\the{#2}\noexpand\@b

```



```

6012 \long\def\@@bidi@popinto#1#2\|#3#4\@@bidi@pop{#1{#3}#2{#4}}
6013 \def\bidi@copy@stacktop#1#2{%
6014     \edef\bidi@cs@e{\noexpand\@bidi@copy@stacktop
6015         {#1}\bidi@csarg\the{#2}\noexpand\@@bidi@pop}%
6016     \bidi@cs@e}
6017 \def\@bidi@copy@stacktop#1\|#2#3\@@bidi@pop{\csname#1\endcsname#2\relax}
6018 \newcount\bidi@stack@length \newtoks\bidi@empty@stack \bidi@empty@stack{\{\}}
6019 \def\bidi@length@of@stack#1{\bidi@csarg\bidi@length@of@csstack{#1}}
6020 \def\bidi@length@of@csstack#1{\def\|#1{\advance\bidi@stack@length\@ne}%
6021     \bidi@stack@length\@m@ne \the#1}
6022 % turn a stack upside down
6023 \def\bidi@invert@csstack#1{\bidi@length@of@csstack{#1}%
6024     \bidi@tempcountb\z@ \bidi@temptoksa\bidi@empty@stack
6025     \loop\ifnum\bidi@tempcountb<\bidi@stack@length
6026         \bidi@pop@cs@into\bidi@temptoksb#1\advance\bidi@stack@length\@m@ne
6027         \bidi@push@cs@onto@cs\bidi@temptoksa\bidi@temptoksb
6028     %     \bidi@append@clist@to@clist\bidi@temptoksb\bidi@temptoksa% append a to b
6029     %     \bidi@temptoksa\bidi@temptoksb
6030     \repeat% copy b to a
6031     #1\bidi@temptoksa \bidi@temptoksa\bidi@empty@toks}
6032 % invert a stack into a list
6033 \def\bidi@x@stack@to@list#1{\bidi@length@of@stack{#1}%
6034     \bidi@tempcountb\z@ \bidi@temptoksa\bidi@empty@toks
6035     \loop\ifnum\bidi@tempcountb<\bidi@stack@length
6036         \bidi@pop@into{\bidi@temptoksb}{#1}\advance\bidi@stack@length\@m@ne
6037         \bidi@append@list@to@list{\bidi@temptoksb}{\bidi@temptoksa}\repeat
6038     \csname#1\endcsname\bidi@temptoksa \bidi@temptoksa\bidi@empty@toks}
6039
6040
6041 % General loop macro:
6042 % \looprepeat
6043 %     \forvariable{<var>} \fromvalue{<start>} \bystep{<step>} \tovalue{<end>} \downtovalue{<end>}
6044 %         \untilcondition{<cond>} \whilecondition{<cond>}
6045 %     \doloopbody { <loop body> }
6046 % where all control sequences in between \looprepeat and \doloopbody are optional.
6047 %
6048 % var: characters to form a control sequence;
6049 %     after \forvariable{index} you can access the loop counter as \index.
6050 %     This is a count register; to print it use \number\index.
6051 % start,step,end: integers with obvious relations to the loop counter;
6052 %     start and step have a default value of 1
6053 % cond: (sequence of commands ending in) any TeX \if... test.
6054 %
6055 % Count down instead of up with \downtovalue; the increment given in \bystep
6056 % is always positive, and is added or subtracted accordingly.
6057 %
6058 % Tests: \untilcondition is evaluated at the end of the loop body; \whilecondition
6059 % at the beginning of the loop body.
6060 %
6061 % Exit from middle of loop: \breaklooprepeat
6062 % use this at any place in the loop; in case of a conditional use
6063 %     \ifsomething ... \expandafter \breaklooprepeat \fi
6064 %
6065 % Note that the line ends do not cause spaces in the output.

```



```

6066 %
6067 % Technical details:
6068 % The loop body is not executed in a group: the braces are those
6069 % of a token list.
6070 % The 'forvariable' variable is \let to a \count register.
6071
6072
6073
6074 % Auxiliary stuff
6075 \def\bidilooprepeat@csarg#1#2{\expandafter#1\csname#2\endcsname}
6076 \def\bidilooprepeat@csromannumeral#1{\csname #1\romannumeral\bidilooprepeat@depth\endcsname}
6077 \def\bidilooprepeat@csargromannumeral#1#2{\expandafter#1\csname#2\romannumeral\bidilooprepeat@depth\endcsname}
6078
6079 \newcount\bidilooprepeat@depth
6080 \let\endlooprepeat\relax \def\bidicsprotect{}
6081 % Trace switches may later be defined by PAC_utils
6082 \let\bidilooprepeat@traceinit\relax \let\bidilooprepeat@traceexit\relax
6083
6084 % Main repeatloop macro
6085 % - go to next level and allocate unique counter/toks if this is the
6086 %   first time we visit this level
6087 % - setup: gather bounds and termination conditions
6088 % - scoop up body in token list; after the assignment define and
6089 %   execute body
6090 \def\looprepeat#1\doloopbody{\bidilooprepeat@traceinit % exit in \breakrepeatloop
6091   \advance\bidilooprepeat@depth\@ne\relax
6092   \bidilooprepeat@csargromannumeral\ifx\bidilooprepeat@count\relax
6093     \bidilooprepeat@csargromannumeral{\csname newcount\expandafter\endcsname}{\bidilooprepeat@depth}
6094     \bidilooprepeat@csargromannumeral{\csname newtoks\expandafter\endcsname}{\bidilooprepeat@depth}
6095     \bidilooprepeat@csargromannumeral{\csname newtoks\expandafter\endcsname}{\bidilooprepeat@depth}
6096     \bidilooprepeat@csargromannumeral{\csname newtoks\expandafter\endcsname}{\bidilooprepeat@depth}
6097   \fi \bidilooprepeat@zero \def\bidilooprepeat@sign{}\def\bidilooprepeat@comp{>}\bidilooprepeat@comp
6098   \edef\bidilooprepeat@tmp
6099     {\def\bidilooprepeat@csargromannumeral\noexpand{\bidilooprepeat@looprepeat}{\bidilooprepeat@body}
6100     \afterassignment\bidilooprepeat@dxbody\bidilooprepeat@csromannumeral{\bidilooprepeat@tmp}}
6101
6102 % Define and execute loop body
6103 % This is done with an \edef to construct the actual sequence
6104 \def\bidilooprepeat@dxbody{\bidilooprepeat@csargromannumeral\edef{\bidilooprepeat@body}{%
6105   \bidilooprepeat@csargromannumeral\the{\bidilooprepeat@wtest}%
6106   \noexpand\the\bidilooprepeat@csargromannumeral\noexpand{\bidilooprepeat@toks}%
6107   \bidilooprepeat@csargromannumeral\the{\bidilooprepeat@utest}%
6108   \global\bidilooprepeat@csargromannumeral\advance{\bidilooprepeat@count} by \bidilooprepeat@comp
6109   \noexpand\endlooprepeat
6110   \bidilooprepeat@csargromannumeral\noexpand{\bidilooprepeat@looprepeat}}}%
6111 \bidilooprepeat@csromannumeral{\bidilooprepeat@body}\ignorespaces}
6112
6113 % Stop test
6114 %% In order to stop, issue a
6115 % \breaklooprepeat which scoops up the rest of the body and exits
6116 \def\breaklooprepeat#1\endlooprepeat{\bidilooprepeat@zero\bidilooprepeat@csargromannumeral
6117   \advance\bidilooprepeat@depth\m@ne \bidilooprepeat@traceexit
6118 }
6119

```



```

6120
6121 % Setup
6122 % gather bounds and termination conditions
6123 \def\bidilooprepeat@setup#1{%
6124   \beginngroup
6125     \def\forvariable##1{%
6126       \edef\bidilooprepeat@tmp{%
6127         \global\let\bidilooprepeat@csarg\noexpand{##1}\bidilooprepeat@csromannumeral{\bidilooprepeat@tmp}%
6128         \bidilooprepeat@tmp}%
6129       \def\fromvalue##1{\bidilooprepeat@csargromannumeral\global{\bidilooprepeat@count}##1\ignorespaces}%
6130       \def\tovalue##1{%
6131         \edef\bidilooprepeat@tmp{\global\bidilooprepeat@csargromannumeral\noexpand{\bidilooprepeat@tmp}%
6132         {\bidilooprepeat@csargromannumeral\the{\bidilooprepeat@wtest}}%
6133         \noexpand\ifnum\bidilooprepeat@csargromannumeral\noexpand{\bidilooprepeat@count}\bidilooprepeat@wtest}%
6134         \noexpand\expandafter\noexpand\breaklooprepeat
6135         \noexpand\fi}\ignorespaces}%
6136       \bidilooprepeat@tmp}%
6137       \def\downntovalue##1{%
6138         \gdef\bidilooprepeat@sign{-}\gdef\bidilooprepeat@comp{<}\tovalue{##1}\ignorespaces}%
6139       \def\bystep##1{\ifnum##1<0\bidilooprepeat@error{LOOPREPEAT: increment has to be a positive value}%
6140         \bidilooprepeat@csargromannumeral\gdef{\bidilooprepeat@inc}{-##1}\else
6141         \bidilooprepeat@csargromannumeral\gdef{\bidilooprepeat@inc}{##1}\fi\ignorespaces}%
6142       \def\untilcondition##1{%
6143         \edef\bidilooprepeat@tmp{\global\bidilooprepeat@csargromannumeral\noexpand{\bidilooprepeat@tmp}%
6144         {\noexpand##1\relax
6145         \noexpand\expandafter\noexpand\breaklooprepeat\noexpand\fi}\ignorespaces}%
6146         \bidilooprepeat@tmp}%
6147       \def\whilecondition##1{%
6148         \edef\bidilooprepeat@tmp{\global\bidilooprepeat@csargromannumeral\noexpand{\bidilooprepeat@tmp}%
6149         {\noexpand##1\relax\noexpand\else
6150         \noexpand\expandafter\noexpand\breaklooprepeat\noexpand\fi}\ignorespaces}%
6151         \bidilooprepeat@tmp}%
6152       \fromvalue{\@ne}\bystep{\@ne}#1%
6153     \endgroup}
6154 \def\bidilooprepeat@zero
6155   {\bidilooprepeat@csromannumeral{\bidilooprepeat@toks}{}}\bidilooprepeat@csromannumeral{\bidilooprepeat@body}{}}
6156 \bidilooprepeat@csargromannumeral\def{\bidilooprepeat@body}{}}
6157
6158 %\tracingmacros2
6159 %\newcount\tmpcount % used in some examples below
6160
6161 %\looprepeat \forvariable{i}
6162 %      \bystep{2}
6163 %  \doloopbody {%
6164 %    \ifnum i=13 \expandafter\breaklooprepeat \fi
6165 %    \number{i} %
6166 %}%
6167
6168 %\looprepeat \forvariable{iii}
6169 %      \tovalue{8}
6170 %  \doloopbody {}
6171 %After loop: \number{iii}%
6172
6173 %\looprepeat \forvariable{i}

```



```

6174 %      \fromvalue{10}
6175 %      \bystep{2}
6176 %      \downtovalue{0}
6177 %      \doloopbody {\number\i} }
6178
6179 %\looprepeat \forvariable{x} \whilecondition{\ifnum x<7}
6180 %      \doloopbody {\number x} }
6181
6182 %\looprepeat \tovalue{3} \doloopbody {Hello world! }
6183
6184 %\looprepeat \forvariable{j}
6185 %      \untilcondition{\tmpcount j \divide \tmpcount by 37 \noexpand \ifnum \tmpcount=1}
6186 %      \doloopbody {\number j} }
6187
6188 %\looprepeat \forvariable{i} \bystep{2} \tovalue{10} \doloopbody
6189 % {\looprepeat \forvariable{j} \fromvalue{i} \bystep{3} \tovalue{18}
6190 %      \doloopbody {(\number i.\number j) }
6191 % }
6192
6193 % infinite loop
6194 %\looprepeat \doloopbody {}
6195
6196 \renewcommand{\InputIfFileExists}[2]{%
6197   \begingroup\expandafter\expandafter\expandafter\endgroup
6198   \expandafter\ifx\csname #1-@bidi@alias\endcsname\relax
6199     \expandafter\@secondoftwo
6200   \else
6201     \bidi@replacefile@msg{\csname #1-@bidi@alias\endcsname}{#1}%
6202     \expandafter\@firstoftwo
6203   \fi
6204   {%
6205     \expandafter\InputIfFileExists\expandafter{\csname
6206       #1-@bidi@alias\endcsname}{#2}%
6207   }%
6208   {\IfFileExists{#1}{%
6209     \bidi@load@hook{before}{#1}%
6210     #2\@addtofilelist{#1}%
6211     \@input \@filef@und
6212     \bidi@load@hook{after}{#1}%
6213   }}%
6214 }
6215
6216 \newcommand*{\bidi@loadwithoptions}{%
6217 \newcommand*{\bidi@loadwithoptions}{%
6218 \let\bidi@loadwithoptions\@loadwithoptions
6219
6220 \renewcommand*{\@loadwithoptions}[3]{%
6221   \begingroup\expandafter\expandafter\expandafter\endgroup
6222   \expandafter\ifx\csname #3.#1-@bidi@aliasname\endcsname\relax
6223     \def\bidi@loadwithoptions{\bidi@loadwithoptions{#1}{#2}{#3}}%
6224   \else
6225     \bidi@replacefile@msg{\csname #3.#1-@bidi@aliasname\endcsname.#1}{#3.#1}%
6226     \def\bidi@loadwithoptions{%
6227       \@loadwithoptions{#1}{#2}{\csname #3.#1-@bidi@aliasname\endcsname}%

```



```

6228 }%
6229 \fi
6230 \bidi@loadwithoptions
6231 }
6232
6233 \newcommand*\bidi@onefilewithoptions{}
6234 \let\bidi@onefilewithoptions\@onefilewithoptions
6235 \def\@onefilewithoptions#1[#2][#3]#4{%
6236   \begingroup\expandafter\expandafter\expandafter\endgroup
6237   \expandafter\ifx\csname #1.#4-@bidi@aliasname\endcsname\relax
6238     \def\bidi@onefilewithoptions{\bidi@onefilewithoptions{#1}}%
6239   \else
6240     \bidi@replacefile@msg{\csname #1.#4-@bidi@aliasname\endcsname.#4}{#1.#4}%
6241     \edef\bidi@onefilewithoptions{%
6242       \noexpand\@onefilewithoptions{\csname #1.#4-@bidi@aliasname\endcsname}}%
6243   \fi
6244   \bidi@onefilewithoptions[{#2}][{#3}]{#4}%
6245   \bidi@load@hook{lateafter}{#1.#4}%
6246 }
6247
6248 \newcommand*\bidi@ReplaceInput}[2]{%
6249   \expandafter\edef\csname #1-@bidi@alias\endcsname{#2}%
6250 }
6251
6252 \newcommand*\bidi@UnReplaceInput}[1]{%
6253   \ifcsname #1-@bidi@alias\endcsname
6254     \expandafter\let\csname #1-@bidi@alias\endcsname\relax
6255   \fi
6256 }
6257
6258 \newcommand*\@bidi@replacefilewithext}[3]{%
6259   \expandafter\edef\csname #1.#3-@bidi@aliasname\endcsname{#2}%
6260 }
6261
6262 \newcommand*\bidi@ReplacePackage}[2]{%
6263   \@bidi@replacefilewithext{#1}{#2}\@pkgextension
6264 }
6265 \newcommand*\bidi@ReplaceClass}[2]{%
6266   \@bidi@replacefilewithext{#1}{#2}\@clsextension
6267 }
6268 \newcommand*\@bidi@unreplacefilewithext}[2]{%
6269   \ifcsname #1.#2-@bidi@aliasname\endcsname
6270     \expandafter\let\csname #1.#2-@bidi@aliasname\endcsname\relax
6271   \fi
6272 }
6273 \newcommand*\bidi@UnReplacePackage}[1]{%
6274   \@bidi@unreplacefilewithext{#1}\@pkgextension
6275 }
6276 \newcommand*\bidi@UnReplaceClass}[1]{%
6277   \@bidi@unreplacefilewithext{#1}\@clsextension
6278 }
6279 \newcommand*\bidi@replacefile@msg}[2]{%
6280   \PackageInfo{biditools}{inputing `#1' instead of `#2'}%
6281 }

```



```

6282 \newcommand*{\bidi@load@hook}[2]{%
6283   \ifundefined{#2-@#1}{-}%
6284   \nameuse{#2-@#1}%
6285   \expandafter\let\csname #2-@#1\endcsname=\relax}}
6286 \newcommand*{\bidi@set@load@hook}[2]{%
6287   \ifundefined{#2-@#1}{\@namedef{#2-@#1}{}}}%
6288   \expandafter\g@addto@macro\csname #2-@#1\endcsname}
6289 \newcommand*{\bidi@BeforeFile}{\bidi@set@load@hook{before}}
6290 \newcommand*{\bidi@AfterFile}{\bidi@set@load@hook{after}}
6291 \newcommand*{\bidi@BeforeClass}[1]{%
6292   \bidi@set@load@hook{before}{#1.\@clsextension}}
6293 \newcommand*{\bidi@AfterClass}{%
6294   \ifstar {\@s@bidi@AfterClass}{%
6295     \ifnextchar +\@@bidi@AfterClass{%
6296       \ifnextchar !\@@@bidi@AfterClass\@bidi@AfterClass
6297     }%
6298   }%
6299 }
6300
6301 \newcommand*{\@@@bidi@AfterClass}[2]{%
6302   \begin{group}\ifx\csname #2.\@clsextension-h@@k\endcsname\relax
6303     \aftergroup\@s@bidi@AfterClass
6304   \else
6305     \aftergroup\bidi@AfterAtEndOfClass
6306   \fi
6307   \endgroup{#2}%
6308 }
6309
6310 \newcommand*{\bidi@AfterAtEndOfClass}[1]{%
6311   \bidi@set@load@hook{lateafter}{#1.\@clsextension}}
6312 \newcommand*{\@@@bidi@AfterClass}[2]{%
6313   \begin{group}
6314     \expandafter\ifx\csname #2.\@clsextension-h@@k\endcsname\relax
6315       \aftergroup\@s@bidi@AfterClass
6316     \else
6317       \aftergroup\@bidi@AfterClass
6318     \fi
6319   \endgroup{#2}%
6320 }
6321
6322 \newcommand*{\@bidi@AfterClass}[1]{%
6323   \bidi@set@load@hook{after}{#1.\@clsextension}}
6324 \newcommand*{\@s@bidi@AfterClass}[1]{%
6325   \begin{group}
6326     \ifclassloaded{#1}{%
6327       \aftergroup\@secondoftwo
6328     }{%
6329       \aftergroup\@bidi@AfterClass
6330     }%
6331   \endgroup
6332   {#1}%
6333 }
6334
6335

```



```

6336 \newcommand*{\@bidi@BeforePackage}[1]{%
6337   \bidi@set@load@hook{before}{#1.\@pkgextension}}
6338 \newcommand*{\@bidi@AfterPackage}{%
6339   \@ifstar {\@s@bidi@AfterPackage}{%
6340     \ifnextchar +\@@bidi@AfterPackage{%
6341       \ifnextchar !\@@@bidi@AfterPackage\@bidi@AfterPackage
6342     }%
6343   }%
6344 }
6345 \newcommand*{\@@@bidi@AfterPackage}[2]{%
6346   \begingroup\ifx\csname #2.\@pkgextension-h@k\endcsname\relax
6347     \aftergroup\@s@bidi@AfterPackage
6348   \else
6349     \aftergroup\@bidi@AfterAtEndOfPackage
6350   \fi
6351   \endgroup{#2}}%
6352 }
6353 \newcommand*{\@bidi@AfterAtEndOfPackage}[1]{%
6354   \bidi@set@load@hook{lateafter}{#1.\@pkgextension}}
6355 \newcommand*{\@@@bidi@AfterPackage}[2]{%
6356   \begingroup
6357     \expandafter\ifx\csname #2.\@pkgextension-h@k\endcsname\relax
6358     \aftergroup\@s@bidi@AfterPackage
6359   \else
6360     \aftergroup\@bidi@AfterPackage
6361   \fi
6362   \endgroup{#2}}%
6363 }
6364 \newcommand*{\@bidi@AfterPackage}[1]{%
6365   \bidi@set@load@hook{after}{#1.\@pkgextension}}
6366 \newcommand*{\@s@bidi@AfterPackage}[1]{%
6367   \begingroup
6368     \@ifpackageloaded{#1}{%
6369       \aftergroup\@secondoftwo
6370     }{%
6371       \aftergroup\@bidi@AfterPackage
6372     }%
6373   \endgroup
6374   {#1}}%
6375 }
6376
6377 \newcommand*{\@bidi@excludedpackages}{}
6378 \let\bidi@excludedpackages\@empty
6379 \newcommand*{\@bidi@s@ved@RequirePackage}{}
6380 \newcommand*{\@bidi@PreventPackageFromLoading}{%
6381   \@ifstar{\@bidi@PreventPackageFromLoading\PackageInfo}%
6382   {\@bidi@PreventPackageFromLoading\PackageWarning}%
6383 }
6384 \newcommand*{\@bidi@PreventPackageFromLoading}[1]{%
6385   \@ifnextchar [%]
6386   {\@@bidi@PreventPackageFromLoading#1}{\@@bidi@PreventPackageFromLoading#1 []}%
6387 }
6388 \newcommand*{\@@@bidi@PreventPackageFromLoading}{}
6389

```



```

6390 \def\@bidi@PreventPackageFromLoading#1[#2]#3{%
6391   \edef\reserved@b{\zap@space#3 \@empty}%
6392   \ifx \reserved@b\@empty
6393     #1{biditools}{%
6394       \string\@bidi@PreventPackageFromLoading\space with empty packages\MessageBreak
6395       argument ignored%
6396     }%
6397   \else
6398     \ifx\@bidi@excludedpackages\@empty
6399       \let\@bidi@saved@RequirePackage\RequirePackage
6400       \let\RequirePackage\@bidi@RequirePackage
6401       \def\reserved@a##1##{%
6402         \@latex@error
6403         {\noexpand \usepackage before \string\documentclass}%
6404         {\noexpand \usepackage may only appear in the document
6405          preamble, i.e.,\MessageBreak
6406          between \noexpand\documentclass and
6407          \string\begin{document}.}%
6408         \@gobble}%
6409       \ifx\reserved@a\usepackage\else
6410         \ifx\usepackage\@bidi@saved@RequirePackage\else
6411           \PackageWarning{biditools}{%
6412             Maybe serious problem: unexpected definition of\MessageBreak
6413             \string\usepackage
6414           }%
6415         \fi
6416         \let\usepackage\RequirePackage
6417       \fi
6418     \fi
6419     \expandafter\@for \expandafter\reserved@a\expandafter:\expandafter=%
6420     \reserved@b\do {%
6421       \ifx\reserved@a\@empty
6422         #1{biditools}{%
6423           empty package argument for
6424           \string\@bidi@PreventPackageFromLoading\MessageBreak
6425           ignored%
6426         }%
6427       \else
6428         \expandafter\@ifpackageloaded\expandafter{\reserved@a}{%
6429           #1{biditools}{%
6430             package '\reserved@a' already loaded.\MessageBreak
6431             Cannot prevent it from being loaded%
6432           }%
6433         }{%
6434           \edef\@bidi@excludedpackages{\@bidi@excludedpackages,%
6435             \reserved@a}%
6436           \if\relax\detokenize{#2}\relax\else
6437             \@ifundefined{\@bidi@exclude@package@\reserved@a @do}{%
6438               \@namedef{\@bidi@exclude@package@\reserved@a @do}{}%
6439             }{%
6440               \expandafter\def
6441               \csname \@bidi@exclude@package@\reserved@a
6442                 @do\expandafter\expandafter\expandafter\endcsname
6443               \expandafter\expandafter\expandafter{%

```



```

6444         \csname bidi@exclude@package@\reserved@a @do\endcsname
6445         #2%
6446     }%
6447 \fi
6448 }%
6449 \fi
6450 }%
6451 \ifx\bidi@excludedpackages\@empty
6452     \bidi@ResetPreventPackageFromLoading
6453 \fi
6454 \fi
6455 }
6456
6457 \@onlypreamble\bidi@PreventPackageFromLoading
6458 \newcommand*{\bidi@ResetPreventPackageFromLoading}{%
6459     \let\bidi@excludedpackages\@empty
6460     \ifx\RequirePackage\bidi@RequirePackage
6461         \ifx\usepackage\RequirePackage
6462             \let\usepackage\bidi@saved@RequirePackage
6463         \fi
6464         \let\RequirePackage\bidi@saved@RequirePackage
6465     \fi
6466 }
6467 \@onlypreamble\bidi@ResetPreventPackageFromLoading
6468 \newcommand*{\bidi@StorePreventPackageFromLoading}[1]{%
6469     \let#1\bidi@excludedpackages
6470 }
6471 \@onlypreamble\bidi@StorePreventPackageFromLoading
6472 \newcommand*{\bidi@UnPreventPackageFromLoading}{%
6473     \@ifstar {\@tempswatrue\bidi@UnPreventPackageFromLoading}%
6474             {\@tempswafalse\bidi@UnPreventPackageFromLoading}%
6475 }
6476
6477 \newcommand*{\@bidi@UnPreventPackageFromLoading}[1]{%
6478     \edef\reserved@b{\zap@space#1 \@empty}%
6479     \if@tempswa
6480         \@for\reserved@a=\reserved@b\do {%
6481             \ifx\reserved@a\@empty \else
6482                 \ifcsname bidi@exclude@package@\reserved@a @do\endcsname
6483                     \expandafter\let
6484                     \csname bidi@exclude@package@\reserved@a @do\endcsname
6485                     \undefined
6486                 \fi
6487             \fi
6488         }%
6489     \fi
6490     \ifcsname bidi@excludedpackages\endcsname
6491         \let\reserved@a\bidi@excludedpackages
6492         \let\bidi@excludedpackages\@empty
6493         \expandafter\@for\expandafter\reserved@c
6494         \expandafter:\expandafter=\reserved@a
6495         \do{%
6496             \ifx\reserved@c\@empty\else
6497                 \@expandtwoargs\in{,\reserved@c,}{,\reserved@b,}%

```



```

6498         \ifin@
6499         \else
6500             \edef\bidix@excludedpackages{%
6501                 \bidix@excludedpackages,\reserved@c
6502             }%
6503         \fi
6504     \fi
6505 }%
6506 \ifx\bidix@excludedpackages\@empty\bidix@ResetPreventPackageFromLoading\fi
6507 \fi
6508 }
6509
6510
6511 \newcommand*{\bidix@RequirePackage}[2][{}]{%
6512     \let\reserved@c\@empty
6513     \let\reserved@d\@empty
6514     \edef\reserved@b{\zap@space#2 \@empty}%
6515     \expandafter\@for\expandafter\reserved@b\expandafter:\expandafter=\reserved@b
6516     \do {%
6517         \begingroup
6518             \@tempwatrue
6519             \@for\reserved@a:=\bidix@excludedpackages\do {%
6520                 \ifx\reserved@a\reserved@b
6521                     \@tempswafalse
6522                 \fi
6523             }%
6524             \if@tempswa
6525                 \xdef\reserved@c{\reserved@c,\reserved@b}%
6526             \else
6527                 \ifx\reserved@b\@empty\else
6528                     \PackageInfo{biditools}{Excluding package `'\reserved@b'\MessageBreak
6529                         from loading}%
6530                     \@ifundefined{bidix@exclude@package@\reserved@b @do}{%
6531                         }{%
6532                             \expandafter\g@addto@macro\expandafter\reserved@d
6533                             \csname bidix@exclude@package@\reserved@b @do\endcsname
6534                         }%
6535                 \fi
6536             \fi
6537         \endgroup
6538     }%
6539     \ifx\reserved@c\@empty
6540         \let\reserved@a\bidix@gobbleopt
6541     \else
6542         \edef\reserved@a{\noexpand\bidix@saves@RequirePackage[#1]{%
6543             \expandafter\@gobble\reserved@c\@empty}}%
6544         \fi
6545         \expandafter\reserved@d
6546         \reserved@a
6547     }
6548
6549 \newcommand{\bidix@gobbleopt}[1][{}]{%
6550 \AtEndDocument{%
6551     \let\bidix@saves@checkend=\@checkend

```



```

6552 \renewcommand*{\@checkend}[1]{%
6553   \def\reserved@a{#1}\def\reserved@b{document}%
6554   \bidi@saved@checkend{#1}%
6555   \ifx\reserved@a\reserved@b
6556     \let\bidi@saved@clearpage=\clearpage
6557     \renewcommand*{\clearpage}{\bidi@saved@clearpage
6558       \bidi@hook@bcma
6559       \bidi@restore@newpage
6560       \let\clearpage=\bidi@saved@clearpage}%
6561   \fi%
6562   \let\bidi@saved@dofilelist\@dofilelist
6563   \def\@dofilelist{%
6564     \bidi@hook@acma
6565     \let\@dofilelist\bidi@saved@dofilelist
6566     \bidi@saved@dofilelist
6567   }%
6568 }%
6569 }
6570
6571
6572 \newcommand*{\bidi@saved@checkend}{}
6573 \newcommand*{\bidi@saved@dofilelist}{}
6574 \newcommand*{\bidi@redefine@newpage}{}%
6575 \let\bidi@saved@newpage\newpage
6576 \def\bidi@restore@newpage{%
6577   \renewcommand*{\newpage}{%
6578     \PackageWarningNoLine{%
6579       biditools%
6580     }{%
6581       \string\newpage\space at main aux file!\MessageBreak
6582       You have output material at the main aux file.\MessageBreak
6583       Note, that the \string\bidi@BeforeClosingMainAux\space commands\MessageBreak
6584       are processed before the output from aux file%
6585     }%
6586     \let\newpage\bidi@saved@newpage
6587     \newpage
6588   }%
6589 }%
6590 \renewcommand*{\newpage}{%
6591   \PackageError{%
6592     biditools%
6593   }{%
6594     \string\newpage\space at \string\bidi@BeforeClosingMainAux
6595   }{%
6596     You should never use \string\newpage\space or
6597     \string\clear(double)page or other output material at the\MessageBreak
6598     argument of \string\bidi@BeforeClosingMainAux!\MessageBreak
6599     If you'll continue, the \string\newpage\space will be ignored to
6600     avoid corruption of\MessageBreak
6601     every prior use of \string\bidi@BeforeClosingMainAux.
6602   }%
6603 }%
6604 }
6605

```



```

6606 \newcommand*{\bidi@restore@newpage}{}
6607 \newcommand*{\bidi@hook@bcma}{}
6608 \newcommand*{\bidi@hook@acma}{}
6609 \newcommand*{\bidi@BeforeClosingMainAux}{%
6610   \ifx\bidi@hook@bcma\@empty
6611     \gdef\bidi@hook@bcma{%
6612       \renewcommand*{\bidi@BeforeClosingMainAux}[1]{###1}%
6613       \let\protected@write\bidi@protected@immediate@write
6614       \bidi@redefine@newpage
6615     }%
6616   \fi
6617   \g@addto@macro\bidi@hook@bcma%
6618 }
6619
6620 \newcommand*{\bidi@AfterReadingMainAux}{%
6621   \ifx\bidi@hook@acma\@empty
6622     \gdef\bidi@hook@acma{%
6623       \renewcommand*{\bidi@AfterReadingMainAux}[1]{###1}%
6624       \let\protected@write\bidi@protected@immediate@write
6625     }%
6626   \fi
6627   \g@addto@macro\bidi@hook@acma%
6628 }
6629
6630 \long\def\bidi@protected@immediate@write#1#2#3{%
6631   \begingroup
6632     #2%
6633     \let\protect\@unexpandable@protect
6634     \edef\reserved@a{\immediate\write#1{#3}}%
6635     \reserved@a
6636   \endgroup
6637   \if@nobreak\ifvmode\nobreak\fi\fi
6638 }
6639
6640 \def\bidi@patch@counter{0}%
6641 \if@bidi@csundef{numexpr}{%
6642   \def\bidi@patch@stepcounter{%
6643     \begingroup
6644       \count@\bidi@patch@counter\relax
6645       \advance\count@\@ne\relax
6646       \edef\x{\endgroup
6647         \noexpand\def\noexpand\bidi@patch@counter{\the\count@}%
6648       }%
6649       \x
6650     }%
6651   }{%
6652     \def\bidi@patch@stepcounter{%
6653       \edef\bidi@patch@counter{%
6654         \the\numexpr\bidi@patch@counter+\@ne\relax
6655       }%
6656     }%
6657   }
6658 \def\bidi@patch@list{}
6659 \def\bidi@patch@Add{%

```



```

6660 \bidi@appto\bidi@patch@list
6661 }
6662 \def\bidi@patch@AfterPackage#1{%
6663   \@ifpackageloaded{#1}{%
6664     \@firstofone
6665   }{%
6666     \@bidi@patch@AfterPackage{#1}%
6667   }%
6668 }
6669 \def\@bidi@patch@AfterPackage#1{%
6670   \edef\bidi@patch@temp{#1}%
6671   \bidi@patch@stepcounter
6672   \expandafter\bidi@patch@@AfterPackage
6673   \csname @bidi@patch@\bidi@patch@counter\expandafter\endcsname{%
6674     \bidi@patch@temp
6675   }%
6676 }
6677 \def\bidi@patch@@AfterPackage#1#2#3{%
6678   \begingroup
6679     \toks@{#3}%
6680     \xdef\bidi@patch@gtemp{%
6681       \noexpand\@ifpackageloaded{#2}{%
6682         \noexpand\let\noexpand#1\noexpand\relax
6683         \the\toks@
6684       }{%
6685       }%
6686     \endgroup
6687     \let#1\bidi@patch@gtemp
6688     \bidi@patch@Add#1%
6689     \bidi@patch@try{bidi@AfterPackage}{#2}#1%
6690 }
6691
6692 \def\bidi@patch@try#1#2#3{%
6693   \if@bidi@csundef{#1}{}%
6694     \csname #1\endcsname{#2}{#3}%
6695   }%
6696 }
6697
6698 \AtBeginDocument{\bidi@patch@list}
6699
6700 \bidi@AtEndPreamble{\bidi@patch@list}%
6701
6702 \bidi@AfterEndPreamble{%
6703   \let\bidi@patch@OrgIfPackageLoaded\@ifpackageloaded
6704   \let\bidi@patch@OrgIfPackageLater\@ifpackagelater
6705   \let\bidi@patch@OrgIfClassLoaded\@ifclassloaded
6706   \let\bidi@patch@OrgIfClassLater\@ifclasslater
6707   \bidi@patch@list
6708   \let\@ifpackageloaded\bidi@patch@OrgIfPackageLoaded
6709   \let\@ifpackagelater\bidi@patch@OrgIfPackageLater
6710   \let\@ifclassloaded\bidi@patch@OrgIfClassLoaded
6711   \let\@ifclasslater\bidi@patch@OrgIfClassLater
6712 }%

```



## 50 File `bidituftefloat.sty`

```

6713 \NeedsTeXFormat{LaTeX2e}
6714 \ProvidesPackage{bidituftefloat}[2017/05/19 v0.2
6715 bidi implementation of tufte float]
6716 \RequirePackage{xifthen}
6717 \newcommand{\@bidituftefloat@pkgname}{bidituftefloat}
6718 \newcommand{\bidituftefloatError}[2]{\PackageError{\@bidituftefloat@pkgname}{#1}{#2}}
6719 \newcommand{\bidituftefloatDebugInfoNL}[1]{\ifthenelse{\boolean{\@bidituftefloat@debug}}{\bid
6720 \newcommand{\bidituftefloatInfoNL}[1]{\PackageInfo{\@bidituftefloat@pkgname}{#1\@gobble}}
6721 \newboolean{\@bidituftefloat@reversegeometry}
6722 \setboolean{\@bidituftefloat@reversegeometry}{false}
6723 \DeclareOption{reversegeometry}{\setboolean{\@bidituftefloat@reversegeometry}{true}}
6724 \newboolean{\@bidituftefloat@a4paper}
6725 \DeclareOption{a4paper}{\setboolean{\@bidituftefloat@a4paper}{true}}
6726 \newboolean{\@bidituftefloat@b5paper}
6727 \DeclareOption{b5paper}{\setboolean{\@bidituftefloat@b5paper}{true}}
6728 \newboolean{\@bidituftefloat@symmetric}
6729 \newboolean{\@bidituftefloat@twoside}
6730 \DeclareOption{twoside}{%
6731 \@twoside true \mparswitch true%
6732 \setboolean{\@bidituftefloat@twoside}{true}%
6733 \setboolean{\@bidituftefloat@symmetric}{true}%
6734 }
6735 \DeclareOption{oneside}{%
6736 \@twoside false \mparswitch false%
6737 \setboolean{\@bidituftefloat@twoside}{false}%
6738 \setboolean{\@bidituftefloat@symmetric}{false}%
6739 }
6740 \@ifclassloaded{book}{\ExecuteOptions{twoside}}{}
6741 \newboolean{\@bidituftefloat@debug}
6742 \newcommand*{\@bidituftefloat@caption@justification}{\@bidituftefloat@justification@autodete
6743 \ProcessOptions
6744 %% Globally sets the length
6745 \newcommand*{\gsetlength}[2]{%
6746 \setlength{#1}{#2}%
6747 \global#1=#1\relax%
6748 }
6749
6750 %% Set the font sizes and baselines to match bidituftefloat's books
6751 \renewcommand\normalsize{%
6752 \setfontsize\normalsize\@xpt{14}%
6753 \abovedisplayskip 10\p@ \@plus2\p@ \@minus5\p@
6754 \abovedisplayshortskip \z@ \@plus3\p@
6755 \belowdisplayshortskip 6\p@ \@plus3\p@ \@minus3\p@
6756 \belowdisplayskip \abovedisplayskip
6757 \let\@listi\@listI}
6758 \normalbaselineskip=14pt
6759 \normalsize
6760 \renewcommand\footnotesize{%
6761 \setfontsize\footnotesize\@viipt{10}%
6762 \abovedisplayskip 6\p@ \@plus2\p@ \@minus4\p@
6763 \abovedisplayshortskip \z@ \@plus\p@
6764 \belowdisplayshortskip 3\p@ \@plus\p@ \@minus2\p@

```



```

6765 \def\@listi{\leftmargin\leftmargini
6766 \topsep 3\p@ \@plus\p@ \@minus\p@
6767 \parsep 2\p@ \@plus\p@ \@minus\p@
6768 \itemsep \parsep}%
6769 \belowdisplayskip \abovedisplayskip
6770 }
6771 %% Paragraph indentation and separation for marginal text
6772 \newcommand{\@biditytfloat@margin@par}{%
6773 \setlength{\RaggedRightParindent}{0.5pc}%
6774 \setlength{\JustifyingParindent}{0.5pc}%
6775 \setlength{\parindent}{0.5pc}%
6776 \setlength{\parskip}{0pt}%
6777 }
6778 \RequirePackage{ragged2e}
6779 \ifthenelse{\boolean{@biditytfloat@reversegeometry}}{%
6780 \RequirePackage[letterpaper,right=1in,top=1in,headsep=2\baselineskip,textwidth=26pc,marginpar
6781 \ifthenelse{\boolean{@biditytfloat@afourpaper}}
6782 {\geometry{a4paper,right=24.8mm,top=27.4mm,headsep=2\baselineskip,textwidth=107mm,marginpar
6783 {}
6784 \ifthenelse{\boolean{@biditytfloat@bfivepaper}}
6785 {\geometry{paperwidth=176mm,paperheight=250mm,right=14.66mm,top=13.88mm,textwidth=102.66mm
6786 {}}%
6787 \RequirePackage[letterpaper,left=1in,top=1in,headsep=2\baselineskip,textwidth=26pc,marginpar
6788 \ifthenelse{\boolean{@biditytfloat@afourpaper}}
6789 {\geometry{a4paper,left=24.8mm,top=27.4mm,headsep=2\baselineskip,textwidth=107mm,marginpar
6790 {}
6791 \ifthenelse{\boolean{@biditytfloat@bfivepaper}}
6792 {\geometry{paperwidth=176mm,paperheight=250mm,left=14.66mm,top=13.88mm,textwidth=102.66mm,
6793 {}
6794 \ifthenelse{\boolean{@biditytfloat@symmetric}}
6795 {}
6796 {\geometry{asymmetric}}}% forces internal LaTeX `twoside'
6797 \setlength{\marginparpush}{10pt}
6798 %% Font for margin items
6799 \newcommand{\@biditytfloat@marginfont}{\normalfont\footnotesize}
6800 \newcommand*{\@biditytfloat@caption@font}{\@biditytfloat@marginfont}
6801 \newcommand*{\setcaptionfont}[1]{\renewcommand*{\@biditytfloat@caption@font}{#1}}
6802 \newcommand{\@biditytfloat@justification}{\justifying}%
6803 \setlength{\abovedisplayskip}{6pt plus 2pt minus 4pt}
6804 \setlength{\belowdisplayskip}{6pt plus 2pt minus 4pt}
6805 \newboolean{@biditytfloat@changepage}
6806 \IfFileExists{changepage.sty}{%
6807 \biditytfloatDebugInfoNL{Found changepage.sty}
6808 \RequirePackage[strict]{changepage}
6809 \setboolean{@biditytfloat@changepage}{true}
6810 }{%
6811 \biditytfloatDebugInfoNL{Found chngpage.sty}
6812 \RequirePackage[strict]{chngpage}
6813 \setboolean{@biditytfloat@changepage}{false}
6814 }
6815 \newboolean{@biditytfloat@odd@page}
6816 \setboolean{@biditytfloat@odd@page}{true}
6817 \newcommand*{\@biditytfloat@checkoddpage}{%
6818 \checkoddpage%

```



```

6819 \ifthenelse{\boolean{@bidituftefloat@changepage}}{%
6820   \ifoddpage%
6821     \setboolean{@bidituftefloat@odd@page}{true}%
6822   \else%
6823     \setboolean{@bidituftefloat@odd@page}{false}%
6824   \fi%
6825 }{%
6826   \ifcpoddpage%
6827     \setboolean{@bidituftefloat@odd@page}{true}%
6828   \else%
6829     \setboolean{@bidituftefloat@odd@page}{false}%
6830   \fi%
6831 }%
6832 }
6833 \newlength{\@bidituftefloat@overhang}% used by the fullwidth environment and the running head
6834 \newlength{\@bidituftefloat@fullwidth}
6835 \newlength{\@bidituftefloat@caption@fill}
6836 \newcommand{\bidituftefloatRecalculate}{%
6837   \setlength{\@bidituftefloat@overhang}{\marginparwidth}
6838   \addtolength{\@bidituftefloat@overhang}{\marginparsep}
6839
6840   \setlength{\@bidituftefloat@fullwidth}{\textwidth}
6841   \addtolength{\@bidituftefloat@fullwidth}{\marginparsep}
6842   \addtolength{\@bidituftefloat@fullwidth}{\marginparwidth}
6843
6844   \setlength{\@bidituftefloat@caption@fill}{\textwidth}
6845   \addtolength{\@bidituftefloat@caption@fill}{\marginparsep}
6846 }
6847 \AtBeginDocument{\bidituftefloatRecalculate}
6848 \RequirePackage{optparams}% provides multiple optional arguments for commands
6849 \RequirePackage{placeins}
6850 \newsavebox{\@bidituftefloat@margin@floatbox}
6851 \newenvironment{@bidituftefloat@margin@float}[2][1.2ex]%
6852 {\FloatBarrier% process all floats before this point so the figure/table numbers stay in o
6853 \begin{lrbox}{\@bidituftefloat@margin@floatbox}%
6854 \begin{minipage}{\marginparwidth}%
6855   \@bidituftefloat@caption@font%
6856   \def\@capttype{#2}%
6857   \hbox{\vspace*{#1}%
6858     \@bidituftefloat@caption@justification%
6859     \@bidituftefloat@margin@par%
6860     \noindent%
6861   }
6862 {\end{minipage}%
6863 \end{lrbox}%
6864 \marginpar{\usebox{\@bidituftefloat@margin@floatbox}}%
6865 }
6866 \newenvironment{marginfigure}[1][1.2ex]%
6867 {\begin{@bidituftefloat@margin@float}[#1]{figure}}
6868 {\end{@bidituftefloat@margin@float}}
6869 \newenvironment{margintable}[1][1.2ex]%
6870 {\begin{@bidituftefloat@margin@float}[#1]{table}}
6871 {\end{@bidituftefloat@margin@float}}
6872 \newcommand*{\@bidituftefloat@justification@autodetect}{\justifying}%

```



```

6873
6874 \newcommand{\@biditytfloat@float@debug@info}{}% contains debug info generated as the float
6875 \newcommand{\@biditytfloat@float@debug}[1]{% adds debug info to the queue for output
6876   \ifthenelse{\equal{\@biditytfloat@float@debug@info}{}}{%
6877     {\def\@biditytfloat@float@debug@info{#1}}%
6878     {\g@addto@macro\@biditytfloat@float@debug@info{\MessageBreak#1}}%
6879 }
6880 \newcommand{\floatalignment}{x}% holds the current float alignment (t, b, h, p)
6881 \newcommand{\setfloatalignment}[1]{\global\def\floatalignment{#1}\@biditytfloat@float@debug{
6882 \newboolean{\@biditytfloat@float@recto}
6883 \newcommand{\forcerectofloat}{\GlobalSetBoolean{\@biditytfloat@float@recto}{true}\@bidityt
6884 \newcommand{\forceversofloat}{\GlobalSetBoolean{\@biditytfloat@float@recto}{false}\@bidityt
6885 \newsavebox{\@biditytfloat@figure@box}
6886 \newsavebox{\@biditytfloat@caption@box}
6887 \let\@biditytfloat@orig@float\@float
6888 \let\@biditytfloat@orig@endfloat\endfloat
6889 \newlength{\@biditytfloat@caption@vertical@offset}
6890 \setlength{\@biditytfloat@caption@vertical@offset}{0pt}
6891 \newcommand{\@biditytfloat@stored@shortcaption}{%
6892 \newcommand{\@biditytfloat@stored@caption}{%
6893 \newcommand{\@biditytfloat@stored@label}{%
6894 \long\def\@biditytfloat@caption[#1][#2]#3{%
6895   \ifthenelse{\isempty{#1}}{%
6896     {\gdef\@biditytfloat@stored@shortcaption{#3}}%
6897     {\gdef\@biditytfloat@stored@shortcaption{#1}}%
6898     \gsetlength{\@biditytfloat@caption@vertical@offset}{-#2}% we want a positive offset to l
6899     \gdef\@biditytfloat@stored@caption{#3}%
6900 }
6901 \newcommand{\@biditytfloat@label}[1]{%
6902   \gdef\@biditytfloat@stored@label{#1}%
6903 }
6904 \newcommand{\@biditytfloat@fps}{%
6905 \newboolean{\@biditytfloat@float@star}
6906 \newlength{\@biditytfloat@float@contents@width}
6907 \newenvironment{\@biditytfloat@float}[3][htbp]{%
6908   {% begin \@biditytfloat@float
6909     % Should this float be full-width or just text-width?
6910     \ifthenelse{\equal{#3}{star}}{%
6911       {\GlobalSetBoolean{\@biditytfloat@float@star}{true}}%
6912       {\GlobalSetBoolean{\@biditytfloat@float@star}{false}}%
6913     % Check page side (recto/verso) and store detected value -- can be overridden in environm
6914     \@biditytfloat@checkoddpage%
6915     \ifthenelse{\boolean{\@biditytfloat@odd@page}}{%
6916       {\GlobalSetBoolean{\@biditytfloat@float@recto}{true}\@biditytfloat@float@debug{Dete
6917       {\GlobalSetBoolean{\@biditytfloat@float@recto}{false}\@biditytfloat@float@debug{Det
6918     % If the float placement specifier is 'b' and only 'b', then bottom-align the mini-pages
6919     \renewcommand{\@biditytfloat@fps}{#1}%
6920     \@biditytfloat@float@debug{Allowed positions: [ #1 ]}%
6921     \ifthenelse{\equal{#1}{b}\OR\equal{#1}{B}}{%
6922       {\renewcommand{\floatalignment}{b}\@biditytfloat@float@debug{Presumed position: [bot
6923       {\renewcommand{\floatalignment}{t}\@biditytfloat@float@debug{Presumed position: [top
6924     % Capture the contents of the \caption and \label commands to use later
6925     \global\let\@biditytfloat@orig@caption\caption%
6926     \global\let\@biditytfloat@orig@label\label%

```



```

6927 \renewcommand{\caption}{\optparams{\@bituftefloat@caption}{[[] [Opt]]}%
6928 \renewcommand{\label}[1]{\@bituftefloat@label{##1}}%
6929 % Handle subfigure package compatibility
6930 \ifthenelse{\boolean{@bituftefloat@packages@subfigure}}{%
6931   \bidi@patchcmd{\subfigure}{%
6932     \let\subfig@oldlabel=\label
6933   }{%
6934     \let\subfig@oldlabel=\@bituftefloat@orig@label
6935   }
6936 }
6937 {}
6938 \let\subtable=\subfigure
6939 }{}% subfigure package is not loaded
6940 \@bituftefloat@orig@float{#2}[#1]%
6941 \ifthenelse{\boolean{@bituftefloat@float@star}}%
6942   {\setlength{\@bituftefloat@float@contents@width}{\@bituftefloat@fullwidth}}%
6943   {\setlength{\@bituftefloat@float@contents@width}{\textwidth}}%
6944 \begin{lrbox}{\@bituftefloat@figure@box}%
6945   \begin{minipage}[\floatalignment]{\@bituftefloat@float@contents@width}\hbox{%
6946 }{}% end @bituftefloat@float
6947   \par\hbox{}\vspace{-\baselineskip}\ifthenelse{\prevdepth>0}{\vspace{-\prevdepth}}{}% a
6948   \end{minipage}%
6949 \end{lrbox}%
6950 % build the caption box
6951 \begin{lrbox}{\@bituftefloat@caption@box}%
6952   \begin{minipage}[\floatalignment]{\marginparwidth}\hbox{%
6953     \ifthenelse{\NOT\equal{\@bituftefloat@stored@caption}}{\@bituftefloat@orig@cap
6954     \ifthenelse{\NOT\equal{\@bituftefloat@stored@label}}{\@bituftefloat@orig@label
6955     \par\vspace{-\prevdepth}}% TODO: DOUBLE-CHECK FOR SAFETY
6956   \end{minipage}%
6957 \end{lrbox}%
6958 % now typeset the stored boxes
6959 \begin{fullwidth}%
6960   \begin{minipage}[\floatalignment]{\linewidth}%
6961     \ifthenelse{\boolean{@bituftefloat@float@star}}%
6962       {\@bituftefloat@float@fullwidth[\@bituftefloat@caption@vertical@offset]{\@bidi
6963       {\@bituftefloat@float@textwidth[\@bituftefloat@caption@vertical@offset]{\@bidi
6964     \end{minipage}%
6965 \end{fullwidth}%
6966 \@bituftefloat@orig@endfloat% end original LaTeX float environment
6967 % output debug info
6968 \ifthenelse{\boolean{@bituftefloat@debug}}{%
6969   \typeout{^^J^^J----- biduntfloat package float information -----}%
6970   \ifthenelse{\equal{\@bituftefloat@stored@label}}{}%
6971     {\typeout{Warning: Float unlabeled!}}%
6972     {\typeout{Float label: [\@bituftefloat@stored@label]}}%
6973   \typeout{Page number: [\thepage]}%
6974   \def\MessageBreak{^^J}%
6975   \typeout{\@bituftefloat@float@debug@info}%
6976   \ifthenelse{\boolean{@bituftefloat@symmetric}}%
6977     {\typeout{Symmetric: [true]}}%
6978     {\typeout{Symmetric: [false]}}%
6979   \typeout{-----^^J^^J}%
6980 }{}%

```



```

6981 % reset commands and temp boxes and captions
6982 \gdef\@biditytfloat@float@debug@info{%
6983 \let\caption\@biditytfloat@orig@caption%
6984 \let\label\@biditytfloat@orig@label%
6985 \begin{lrbox}{\@biditytfloat@figure@box}\hbox{}\end{lrbox}%
6986 \begin{lrbox}{\@biditytfloat@caption@box}\hbox{}\end{lrbox}%
6987 \gdef\@biditytfloat@stored@shortcaption{%
6988 \gdef\@biditytfloat@stored@caption{%
6989 \gdef\@biditytfloat@stored@label{%
6990 \gsetlength{\@biditytfloat@caption@vertical@offset}{0pt}% reset caption offset
6991 }
6992 \newcommand{\@biditytfloat@float@textwidth}[3][Opt]{%
6993 \ifthenelse{\NOT\boolean{\@biditytfloat@symmetric}\OR\boolean{\@biditytfloat@float@recto}}
6994 % asymmetric or page is odd, so caption is on the right
6995 \hbox{%
6996 \usebox{#2}%
6997 \hspace{\marginparsep}%
6998 \smash{\raisebox{#1}{\usebox{#3}}}%
6999 }
7000 \@biditytfloat@float@debug{Caption position: [right]}%
7001 }{% symmetric pages and page is even, so caption is on the left
7002 \hbox{%
7003 \smash{\raisebox{#1}{\usebox{#3}}}%
7004 \hspace{\marginparsep}%
7005 \usebox{#2}%
7006 }
7007 \@biditytfloat@float@debug{Caption position: [left]}%
7008 }%
7009 }
7010 \newcommand{\@biditytfloat@float@fullwidth}[3][Opt]{%
7011 \ifthenelse{\equal{\floatalignment}{b}}%
7012 {% place caption above figure
7013 \ifthenelse{\NOT\boolean{\@biditytfloat@symmetric}\OR\boolean{\@biditytfloat@float@recto}}
7014 {\hfill\smash{\raisebox{#1}{\usebox{#3}}}\par\usebox{#2}\@biditytfloat@float@debug}
7015 {\smash{\raisebox{#1}{\usebox{#3}}}\hfill\par\usebox{#2}\@biditytfloat@float@debug}
7016 }{% place caption below figure
7017 \ifthenelse{\NOT\boolean{\@biditytfloat@symmetric}\OR\boolean{\@biditytfloat@float@recto}}
7018 {\usebox{#2}\par\hfill\smash{\raisebox{#1}{\usebox{#3}}}\@biditytfloat@float@debug}
7019 {\usebox{#2}\par\smash{\raisebox{#1}{\usebox{#3}}}\hfill\@biditytfloat@float@debug}
7020 }%
7021 }
7022 \renewenvironment{figure}[1][htbp]%
7023 {\ifvmode\else\unskip\fi\begin{\@biditytfloat@float}[#1]{figure}{}}
7024 {\end{\@biditytfloat@float}}
7025 \renewenvironment{table}[1][htbp]
7026 {\ifvmode\else\unskip\fi\begin{\@biditytfloat@float}[#1]{table}{}}
7027 {\end{\@biditytfloat@float}}
7028 \renewenvironment{figure*}[1][htbp]%
7029 {\ifvmode\else\unskip\fi\begin{\@biditytfloat@float}[#1]{figure}{star}}
7030 {\end{\@biditytfloat@float}}
7031 \renewenvironment{table*}[1][htbp]%
7032 {\ifvmode\else\unskip\fi\begin{\@biditytfloat@float}[#1]{table}{star}}
7033 {\end{\@biditytfloat@float}}
7034 \newenvironment{fullwidth}

```



```

7035 {\ifthenelse{\boolean{@biditytfloat@symmetric}}}%
7036 {\ifthenelse{\boolean{@biditytfloat@changepage}}{\begin{adjustwidth*}{-{\@biditytfloat@overhang}}}%
7037 {\begin{adjustwidth*}{-{\@biditytfloat@overhang}}}%
7038 }%
7039 {\ifthenelse{\boolean{@biditytfloat@symmetric}}}%
7040 {\ifthenelse{\boolean{@biditytfloat@changepage}}{\end{adjustwidth*}}{\end{adjustwidth}}}%
7041 {\end{adjustwidth}}}%
7042 }
7043 \long\def\@caption#1[#2]#3{%
7044 \par%
7045 \addcontentsline{\csname ext@#1\endcsname}{#1}%
7046 {\protect\numberline{\csname the#1\endcsname}{\ignorespaces #2}}%
7047 \begingroup%
7048 \@parboxrestore%
7049 \if@minipage%
7050 \@setminipage%
7051 \fi%
7052 \@biditytfloat@caption@font\@biditytfloat@caption@justification%
7053 \noindent\csname fnum@#1\endcsname: \ignorespaces#3\par%
7054 %\@makecaption{\csname fnum@#1\endcsname}{\ignorespaces #3}\par
7055 \endgroup}
7056 %%
7057 % Turns newlines into spaces. Based on code from the 'titlesec' package.
7058 \DeclareRobustCommand{\@biditytfloat@newlinetospace}{%
7059 \ifstar{\@biditytfloat@newlinetospace@i}{\@biditytfloat@newlinetospace@i}%
7060 }
7061 \def\@biditytfloat@newlinetospace@i{%
7062 \ifdim\lastskip>z@\else\space\fi
7063 \ignorespaces%
7064 }
7065 \DeclareRobustCommand{\newlinetospace}[1]{%
7066 \let\@biditytfloat@orig@cr\\% save the original meaning of \\
7067 \def\\{\@biditytfloat@newlinetospace}% turn \\ and \* into \space
7068 \let\newline\\% turn \newline into \space
7069 #1%
7070 \let\\ \@biditytfloat@orig@cr% revert to original meaning of \\
7071 }
7072 \RequirePackage{fancyhdr}
7073 \pagestyle{fancy}
7074 \AtBeginDocument{%
7075 \ifthenelse{\boolean{@biditytfloat@symmetric}}
7076 {\fancyhfoffset[LE,R0]{\@biditytfloat@overhang}}
7077 {\fancyhfoffset[RE,R0]{\@biditytfloat@overhang}}
7078 }
7079 % The running heads/feet don't have rules
7080 \renewcommand{\headrulewidth}{0pt}
7081 \renewcommand{\footrulewidth}{0pt}
7082 % The 'fancy' page style is the default style for all pages.
7083 \fancyhf{} % clear header and footer fields
7084 \ifthenelse{\boolean{@biditytfloat@symmetric}}
7085 {\fancyhead[LE]{\thepage\quad\textsl{\newlinetospace{\plainauthor}}}%
7086 \fancyhead[R0]{\textsl{\newlinetospace{\plaintitle}}\quad\thepage}%
7087 {\fancyhead[RE,R0]{\textsl{\newlinetospace{\plaintitle}}\quad\thepage}}%
7088 % The 'plain' page style is used on chapter opening pages.

```



```

7089 % In Tufte's /Beautiful Evidence/ he never puts page numbers at the
7090 % bottom of pages -- the folios are unexpressed.
7091 \fancypagestyle{plain}{
7092   \fancyhf{} % clear header and footer fields
7093   % Uncomment the following five lines of code if you want the opening page
7094   % of the chapter to express the folio in the lower outside corner.
7095   % \ifthenelse{\boolean{@bidituftefloat@symmetric}}{
7096   %   {\fancyfoot[LE,RO]{\thepage}}
7097   %   {\fancyfoot[RE,RO]{\thepage}}
7098 }
7099 % The 'empty' page style suppresses all headers and footers.
7100 % It's used on title pages and 'intentionally blank' pages.
7101 \fancypagestyle{empty}{
7102   \fancyhf{} % clear header and footer fields
7103 }
7104 \def\morefloats{% provides a total of 52 floats
7105   \ifthenelse{\isundefined{\bx@S}}{%
7106     \bidituftefloatDebugInfoNL{Adding 34 more float slots.}
7107     \newinsert\bx@S
7108     \newinsert\bx@T
7109     \newinsert\bx@U
7110     \newinsert\bx@V
7111     \newinsert\bx@W
7112     \newinsert\bx@X
7113     \newinsert\bx@Y
7114     \newinsert\bx@Z
7115     \newinsert\bx@a
7116     \newinsert\bx@b
7117     \newinsert\bx@c
7118     \newinsert\bx@d
7119     \newinsert\bx@e
7120     \newinsert\bx@f
7121     \newinsert\bx@g
7122     \newinsert\bx@h
7123     \newinsert\bx@i
7124     \newinsert\bx@j
7125     \newinsert\bx@k
7126     \newinsert\bx@l
7127     \newinsert\bx@m
7128     \newinsert\bx@n
7129     \newinsert\bx@o
7130     \newinsert\bx@p
7131     \newinsert\bx@q
7132     \newinsert\bx@r
7133     \newinsert\bx@s
7134     \newinsert\bx@t
7135     \newinsert\bx@u
7136     \newinsert\bx@v
7137     \newinsert\bx@w
7138     \newinsert\bx@x
7139     \newinsert\bx@y
7140     \newinsert\bx@z
7141     \gdef\@freelist{\@elt\bx@A\@elt\bx@B\@elt\bx@C\@elt\bx@D\@elt\bx@E
7142                 \@elt\bx@F\@elt\bx@G\@elt\bx@H\@elt\bx@I\@elt\bx@J

```



```

7143 \@elt\bx@K\@elt\bx@L\@elt\bx@M\@elt\bx@N
7144 \@elt\bx@O\@elt\bx@P\@elt\bx@Q\@elt\bx@R
7145 \@elt\bx@S\@elt\bx@T\@elt\bx@U\@elt\bx@V
7146 \@elt\bx@W\@elt\bx@X\@elt\bx@Y\@elt\bx@Z
7147 \@elt\bx@a\@elt\bx@b\@elt\bx@c\@elt\bx@d\@elt\bx@e
7148 \@elt\bx@f\@elt\bx@g\@elt\bx@h\@elt\bx@i\@elt\bx@j
7149 \@elt\bx@k\@elt\bx@l\@elt\bx@m\@elt\bx@n
7150 \@elt\bx@o\@elt\bx@p\@elt\bx@q\@elt\bx@r
7151 \@elt\bx@s\@elt\bx@t\@elt\bx@u\@elt\bx@v
7152 \@elt\bx@w\@elt\bx@x\@elt\bx@y\@elt\bx@z}%
7153 }{% we've already added another 34 floats, so we'll add 26 more, but that's it!
7154 \ifthenelse{\isundefined{\bx@AA}}{%
7155 \bidituftefloatDebugInfoNL{Adding 26 more float slots.}
7156 \newinsert\bx@AA
7157 \newinsert\bx@BB
7158 \newinsert\bx@CC
7159 \newinsert\bx@DD
7160 \newinsert\bx@EE
7161 \newinsert\bx@FF
7162 \newinsert\bx@GG
7163 \newinsert\bx@HH
7164 \newinsert\bx@II
7165 \newinsert\bx@JJ
7166 \newinsert\bx@KK
7167 \newinsert\bx@LL
7168 \newinsert\bx@MM
7169 \newinsert\bx@NN
7170 \newinsert\bx@OO
7171 \newinsert\bx@PP
7172 \newinsert\bx@QQ
7173 \newinsert\bx@RR
7174 \newinsert\bx@SS
7175 \newinsert\bx@TT
7176 \newinsert\bx@UU
7177 \newinsert\bx@VV
7178 \newinsert\bx@WW
7179 \newinsert\bx@XX
7180 \newinsert\bx@YY
7181 \newinsert\bx@ZZ
7182 \gdef\@freelist{\@elt\bx@A\@elt\bx@B\@elt\bx@C\@elt\bx@D\@elt\bx@E
7183 \@elt\bx@F\@elt\bx@G\@elt\bx@H\@elt\bx@I\@elt\bx@J
7184 \@elt\bx@K\@elt\bx@L\@elt\bx@M\@elt\bx@N
7185 \@elt\bx@O\@elt\bx@P\@elt\bx@Q\@elt\bx@R
7186 \@elt\bx@S\@elt\bx@T\@elt\bx@U\@elt\bx@V
7187 \@elt\bx@W\@elt\bx@X\@elt\bx@Y\@elt\bx@Z
7188 \@elt\bx@a\@elt\bx@b\@elt\bx@c\@elt\bx@d\@elt\bx@e
7189 \@elt\bx@f\@elt\bx@g\@elt\bx@h\@elt\bx@i\@elt\bx@j
7190 \@elt\bx@k\@elt\bx@l\@elt\bx@m\@elt\bx@n
7191 \@elt\bx@o\@elt\bx@p\@elt\bx@q\@elt\bx@r
7192 \@elt\bx@s\@elt\bx@t\@elt\bx@u\@elt\bx@v
7193 \@elt\bx@w\@elt\bx@x\@elt\bx@y\@elt\bx@z
7194 \@elt\bx@AA\@elt\bx@BB\@elt\bx@CC\@elt\bx@DD\@elt\bx@EE
7195 \@elt\bx@FF\@elt\bx@GG\@elt\bx@HH\@elt\bx@II\@elt\bx@JJ
7196 \@elt\bx@KK\@elt\bx@LL\@elt\bx@MM\@elt\bx@NN

```



```

7197         \@elt\bx@00\@elt\bx@PP\@elt\bx@QQ\@elt\bx@RR
7198         \@elt\bx@SS\@elt\bx@TT\@elt\bx@UU\@elt\bx@VV
7199         \@elt\bx@WW\@elt\bx@XX\@elt\bx@YY\@elt\bx@ZZ}%
7200     }{%
7201     \biditytfloatError{You may only call \string\morefloats\space twice. See the\Message
7202     {There are already 78 float slots allocated. Try using \string\FloatBarrier\space or
7203     }%
7204 }%
7205 }
7206 \newboolean{@biditytfloat@packages@subfigure}
7207 \setboolean{@biditytfloat@packages@subfigure}{false}
7208 \AtBeginDocument{%
7209     \ifpackageloaded{subfigure}
7210     {\GlobalSetBoolean{@biditytfloat@packages@subfigure}{true}}
7211     {\GlobalSetBoolean{@biditytfloat@packages@subfigure}{false}}}%
7212 }
7213 \AtBeginDocument{%
7214     \ifpackageloaded{float}{%
7215         % Save the redefined float environment (instead of the LaTeX float environment)
7216         \let\@biditytfloat@orig@float\@float
7217         \let\@biditytfloat@orig@endfloat\endfloat
7218
7219         % Define Tuftian float styles (with the caption in the margin)
7220         \newcommand{\floatc@biditytfloatplain}[2]{%
7221             \begin{lrbox}{\@biditytfloat@caption@box}%
7222                 \begin{minipage}[floatalignment]{\marginparwidth}\hbox{}%
7223                     \@biditytfloat@caption@font{\@fs@cfont #1:} #2\par%
7224                 \end{minipage}%
7225             \end{lrbox}%
7226             \smash{\hspace{\@biditytfloat@caption@fill}}\usebox{\@biditytfloat@caption@box}}%
7227     }
7228     \newcommand{\fs@biditytfloatplain}{%
7229         \def\@fs@cfont{\@biditytfloat@caption@font}%
7230         \let\@fs@capt\floatc@biditytfloatplain%
7231         \def\@fs@pre{}%
7232         \def\@fs@post{}%
7233         \def\@fs@mid{}%
7234         \let\@fs@iftopcapt\iftrue%
7235     }
7236     \let\fs@biditytfloatplaintop=\fs@biditytfloatplain
7237     \let\floatc@biditytfloatplaintop=\floatc@biditytfloatplain
7238     \newcommand\floatc@biditytfloatruled[2]{%
7239         {\@fs@cfont #1} #2\par%
7240     }
7241     \newcommand\fs@biditytfloatruled{%
7242         \def\@fs@cfont{\@biditytfloat@caption@font}%
7243         \let\@fs@capt\floatc@biditytfloatplain%
7244         \def\@fs@pre{\hrule height.8pt depth0pt width\textwidth \kern2pt}%
7245         \def\@fs@post{\kern2pt\hrule width\textwidth\relax}%
7246         \def\@fs@mid{}%
7247         \let\@fs@iftopcapt\iftrue%
7248     }
7249     \newcommand\fs@biditytfloatboxed{%
7250         \def\@fs@cfont{}%

```



```

7251 \let\@fs@capt\floatc@biditytfloatplain%
7252 \def\@fs@pre{%
7253 \setbox\@currbox\ vbox{\hbadness10000
7254 \moveleft3.4pt\ vbox{\advance\hsize by6.8pt
7255 \hrule \hbox to\hsize{\vrule\kern3pt
7256 \vbox{\kern3pt\box\@currbox\kern3pt}\kern3pt\vrule}\hrule}}
7257 }%
7258 \def\@fs@mid{\kern2pt}%
7259 \def\@fs@post{}%
7260 \let\@fs@iftopcapt\iftrue%
7261 }
7262 }{%
7263 % Nothing to do
7264 }
7265 }
7266 \AtBeginDocument{%
7267 \ifpackageloaded{algorithm}{%
7268 % Set the float style to the Tufte version
7269 \ifthenelse{\equal{\ALG@floatstyle}{plain}}\OR\equal{\ALG@floatstyle}{ruled}}\OR\equal{\ALG@floatstyle}{biditytfloat}%
7270 \biditytfloatInfoNL{Switching algorithm float style from \ALG@floatstyle\MessageBreak to biditytfloat}%
7271 \floatstyle{biditytfloat\ALG@floatstyle}%
7272 \restylefloat{algorithm}%
7273 }{%
7274 }{%
7275 % Nothing to do
7276 }
7277 }
7278 \PassOptionsToPackage{caption=false}{subfig}

```

## 51 File biditytfloatsidenote.sty

```

7279 \NeedsTeXFormat{LaTeX2e}
7280 \ProvidesPackage{biditytfloatsidenote}[2017/08/09 v0.4
7281 bidi implementation of tufte sidenote]
7282 \RequirePackage{xifthen}
7283 \RequirePackage{ragged2e}
7284 \RequirePackage{setspace}
7285 \RequirePackage{biditytools}
7286 \def\biditytfloatsidenotemarginpar{%
7287 \ifhmode
7288 \@bsphack
7289 \@floatpenalty -\@Mii
7290 \else
7291 \@floatpenalty -\@Miii
7292 \fi
7293 \ifinner
7294 \@parmoderr
7295 \@floatpenalty\z@
7296 \else
7297 \@next\@currbox\@freelist{}{}%
7298 \@next\@marbox\@freelist{\global\count\@marbox\m@ne}%
7299 {\@floatpenalty\z@
7300 \@fltovf\def\@currbox{\@tempboxa}\def\@marbox{\@tempboxa}}%
7301 \fi

```



```

7302 \ifnextchar [\@bidityftesidenotexmpar\@bidityftesidenoteympar}
7303 \long\def\@bidityftesidenotexmpar[#1]#2{%
7304 \@bidityftesidenotesavemarbox\@marbox{#1}%
7305 \@bidityftesidenotesavemarbox\@currbox{#2}%
7306 \@xympar}
7307 \long\def\@bidityftesidenoteympar#1{%
7308 \@bidityftesidenotesavemarbox\@marbox{#1}%
7309 \global\setbox\@currbox\copy\@marbox
7310 \@xympar}
7311 \long\def \@bidityftesidenotesavemarbox #1#2{%
7312 \global\setbox #1%
7313 \color@vbox
7314 \vtop{%
7315 \hsize\marginparwidth
7316 \@parboxrestore
7317 \@bidityftesidenotemarginparreset
7318 #2%
7319 \@minipagefalse
7320 \outer@nobreak
7321 }%
7322 \color@endbox
7323 }
7324 \def \@bidityftesidenotemarginparreset {%
7325 \reset@font
7326 \normalsize
7327 \@minipagetrue
7328 \everypar{\@minipagefalse\everypar{}}\if@RTL@footnote\beginR\else\beginL\fi}%
7329 }
7330 \def\LTRbidityftesidenotemarginpar{%
7331 \ifhmode
7332 \@bsphack
7333 \@floatpenalty -\@Mii
7334 \else
7335 \@floatpenalty-\@Miii
7336 \fi
7337 \ifinner
7338 \@parmoderr
7339 \@floatpenalty\z@
7340 \else
7341 \@next\@currbox\@freelist{}{}%
7342 \@next\@marbox\@freelist{\global\count\@marbox\m@ne}%
7343 {\@floatpenalty\z@
7344 \@fltovf\def\@currbox{\@tempboxa}\def\@marbox{\@tempboxa}}%
7345 \fi
7346 \ifnextchar [\@LTRbidityftesidenotexmpar\@LTRbidityftesidenoteympar}
7347 \long\def\@LTRbidityftesidenotexmpar[#1]#2{%
7348 \@LTRbidityftesidenotesavemarbox\@marbox{#1}%
7349 \@LTRbidityftesidenotesavemarbox\@currbox{#2}%
7350 \@xympar}
7351 \long\def\@LTRbidityftesidenoteympar#1{%
7352 \@LTRbidityftesidenotesavemarbox\@marbox{#1}%
7353 \global\setbox\@currbox\copy\@marbox
7354 \@xympar}
7355 \long\def \@LTRbidityftesidenotesavemarbox #1#2{%

```



```

7356 \global\setbox #1%
7357 \color@vbox
7358 \vtop{%
7359 \hsize\marginparwidth
7360 \@parboxrestore
7361 \@LTRbidityftesidenotemarginparreset
7362 #2%
7363 \@minipagefalse
7364 \outer@nobreak
7365 }%
7366 \color@endbox
7367 }
7368 \def \@LTRbidityftesidenotemarginparreset {%
7369 \reset@font
7370 \normalsize
7371 \@minipagetrue
7372 \everypar{\@minipagefalse\everypar{}\beginL}%
7373 }
7374 \def\RTLbidityftesidenotemarginpar{%
7375 \ifhmode
7376 \@bsphack
7377 \@floatpenalty -\@Mii
7378 \else
7379 \@floatpenalty-\@Miii
7380 \fi
7381 \ifinner
7382 \@parmoderr
7383 \@floatpenalty\z@
7384 \else
7385 \@next\@currbox\@freelist{}\}%
7386 \@next\@marbox\@freelist{\global\count\@marbox\m@ne}%
7387 {\@floatpenalty\z@
7388 \@fltovf\def\@currbox{\@tempboxa}\def\@marbox{\@tempboxa}}}%
7389 \fi
7390 \@ifnextchar [\@RTLbidityftesidenotexmpar\@RTLbidityftesidenoteympar}
7391 \long\def\@RTLbidityftesidenotexmpar[#1]#2{%
7392 \@RTLbidityftesidenotesavemarbox\@marbox{#1}%
7393 \@RTLbidityftesidenotesavemarbox\@currbox{#2}%
7394 \@xympar}
7395 \long\def\@RTLbidityftesidenoteympar#1{%
7396 \@RTLbidityftesidenotesavemarbox\@marbox{#1}%
7397 \global\setbox\@currbox\copy\@marbox
7398 \@xympar}
7399 \long\def \@RTLbidityftesidenotesavemarbox #1#2{%
7400 \global\setbox #1%
7401 \color@vbox
7402 \vtop{%
7403 \hsize\marginparwidth
7404 \@parboxrestore
7405 \@RTLbidityftesidenotemarginparreset
7406 #2%
7407 \@minipagefalse
7408 \outer@nobreak
7409 }%

```



```

7410 \color@endbox
7411 }
7412 \def \@RTLbidituftesidenotemarginparreset {%
7413     \reset@font
7414     \normalsize
7415     \@minipagetrue
7416     \everypar{\@minipagefalse\everypar{}\beginR}%
7417 }
7418 \newcommand*{\@bidituftesidenote@marginfont}{\normalfont\footnotesize}
7419 \newcommand*{\@bidituftesidenote@LTRmarginfont}{\normalfont\footnotesize}
7420 \newcommand*{\@bidituftesidenote@RTLmarginfont}{\normalfont\footnotesize}
7421 \newcommand*{\@bidituftesidenote@sidenote@font}{\@bidituftesidenote@marginfont}
7422 \newcommand*{\@bidituftesidenote@LTRsidenote@font}{\@bidituftesidenote@LTRmarginfont}
7423 \newcommand*{\@bidituftesidenote@RTLSidenote@font}{\@bidituftesidenote@RTLmarginfont}
7424 \newcommand*{\@bidituftesidenote@marginnote@font}{\@bidituftesidenote@marginfont}
7425 \newcommand*{\@bidituftesidenote@LTRmarginnote@font}{\@bidituftesidenote@LTRmarginfont}
7426 \newcommand*{\@bidituftesidenote@RTLmarginnote@font}{\@bidituftesidenote@RTLmarginfont}
7427 \newcommand*{\@bidituftesidenote@citation@font}{\@bidituftesidenote@marginfont}
7428 \newcommand*{\@bidituftesidenote@LTRcitation@font}{\@bidituftesidenote@LTRmarginfont}
7429 \newcommand*{\@bidituftesidenote@RTLCitation@font}{\@bidituftesidenote@RTLmarginfont}
7430 \newcommand*{\setsidenotefont}[1]{\renewcommand*{\@bidituftesidenote@sidenote@font}{#1}}
7431 \newcommand*{\setLTRsidenotefont}[1]{\renewcommand*{\@bidituftesidenote@LTRsidenote@font}{#1}}
7432 \newcommand*{\setRTLSidenotefont}[1]{\renewcommand*{\@bidituftesidenote@RTLSidenote@font}{#1}}
7433 \newcommand*{\setmarginnotefont}[1]{\renewcommand*{\@bidituftesidenote@marginnote@font}{#1}}
7434 \newcommand*{\setLTRmarginnotefont}[1]{\renewcommand*{\@bidituftesidenote@LTRmarginnote@font}{#1}}
7435 \newcommand*{\setRTLmarginnotefont}[1]{\renewcommand*{\@bidituftesidenote@RTLmarginnote@font}{#1}}
7436 \newcommand*{\setcitationfont}[1]{\renewcommand*{\@bidituftesidenote@citation@font}{#1}}
7437 \newcommand*{\setLTRcitationfont}[1]{\renewcommand*{\@bidituftesidenote@LTRcitation@font}{#1}}
7438 \newcommand*{\setRTLCitationfont}[1]{\renewcommand*{\@bidituftesidenote@RTLCitation@font}{#1}}
7439 \newcommand*{\@bidituftesidenote@sidenote@justification}{\@bidituftesidenote@justification@auto}
7440 \newcommand*{\@bidituftesidenote@marginnote@justification}{\@bidituftesidenote@justification@auto}
7441 \newcommand*{\@bidituftesidenote@citation@justification}{\@bidituftesidenote@justification@auto}
7442 \newcommand*{\@bidituftesidenote@justification@autodetect}{\justifying}%
7443 \newcommand{\@bidituftesidenote@margin@par}{%
7444     \setlength{\RaggedRightParindent}{0.5pc}%
7445     \setlength{\JustifyingParindent}{0.5pc}%
7446     \setlength{\parindent}{0.5pc}%
7447     \setlength{\parskip}{Opt}%
7448 }
7449 %%
7450 % Globally sets the length
7451 \ifundefined{gsetlength}{%
7452 \newcommand*{gsetlength}[2]{%
7453     \setlength{#1}{#2}%
7454     \global#1=#1\relax%
7455 }%
7456 }{}
7457
7458 %%
7459 % A function that removes leading and trailing spaces from the supplied macro.
7460 % Based on code written by Michael Downes (See ``Around the Bend'', #15.)
7461 % Executing \@bidituftesidenote@trim@spaces\xyzzy will result in the contents of \xyzzy
7462 % being trimmed of leading and trailing white space.
7463 \catcode`\Q=3

```



```

7464 \def\@bidityftesidenote@trim@spaces#1{%
7465 % Use grouping to emulate a multi-token afterassignment queue
7466 \begingroup%
7467 % Put \toks 0 {' into the afterassignment queue
7468 \aftergroup\toks\aftergroup0\aftergroup{%
7469 % Apply \trimb to the replacement text of #1, adding a leading
7470 % \noexpand to prevent brace stripping and to serve another purpose
7471 % later.
7472 \expandafter\@bidityftesidenote@trim@b\expandafter\noexpand#1Q Q}%
7473 % Transfer the trimmed text back into #1.
7474 \edef#1{\the\toks0}%
7475 }
7476 % \trimb removes a trailing space if present, then calls \@bidityftesidenote@trim@c to
7477 % clean up any leftover bizarre Qs, and trim a leading space. In
7478 % order for \trimc to work properly we need to put back a Q first.
7479 \def\@bidityftesidenote@trim@b#1 Q{\@bidityftesidenote@trim@c#1Q}
7480 % Execute \vfuzz assignment to remove leading space; the \noexpand
7481 % will now prevent unwanted expansion of a macro or other expandable
7482 % token at the beginning of the trimmed text. The \endgroup will feed
7483 % in the \aftergroup tokens after the \vfuzz assignment is completed.
7484 \def\@bidityftesidenote@trim@c#1Q#2{\afterassignment\endgroup \vfuzz\the\vfuzz#1}
7485 \catcode\Q=11
7486 %%
7487 % Citations should go in the margin as sidenotes
7488
7489 \RequirePackage{natbib}
7490 \RequirePackage{bibentry} % allows bibitems to be typeset outside thebibliography env
7491 % Redefine the \BR@b@bibitem command to fix a bug with bibentry+chicago style
7492 \renewcommand\BR@b@bibitem[2][{}]{%
7493 \ifthenelse{\isempty{#1}}{%
7494 {\BR@bibitem{#2}}%
7495 {\BR@bibitem[#1]{#2}}%
7496 \BR@c@bibitem{#2}}%
7497 }
7498 \bidi@AtEndPreamble{\nobibliography*} % pre-loads the bibliography keys
7499 %%
7500 % Normal \cite behavior
7501 \newcounter{@bidityftesidenote@num@bibkeys}%
7502 \newcommand{\@bidityftesidenote@normal@cite}[2][0pt]{%
7503 % Snag the last bibentry in the list for later comparison
7504 \let\@temp@last@bibkey\@empty%
7505 \@for\@temp@bibkey:=#2\do{\let\@temp@last@bibkey\@temp@bibkey}%
7506 \sidenote[] [#1]{%
7507 % Loop through all the bibentries, separating them with semicolons and spaces
7508 \normalsize\normalfont\@bidityftesidenote@citation@font%
7509 \setcounter{@bidityftesidenote@num@bibkeys}{0}%
7510 \@for\@temp@bibkeyx:=#2\do{%
7511 \ifthenelse{\equal{\@temp@last@bibkey}{\@temp@bibkeyx}}{%
7512 {\ifthenelse{\equal{value{@bidityftesidenote@num@bibkeys}}{0}}{\and\ }%
7513 \@bidityftesidenote@trim@spaces\@temp@bibkeyx% trim spaces around bibkey
7514 \bibentry{\@temp@bibkeyx}}%
7515 {\@bidityftesidenote@trim@spaces\@temp@bibkeyx% trim spaces around bibkey
7516 \bibentry{\@temp@bibkeyx};\ }%
7517 \stepcounter{@bidityftesidenote@num@bibkeys}}%

```



```

7518 }%
7519 }%
7520 }
7521 \newcommand{\@bidityftelTRsidenote@normal@cite}[2][Opt]{%
7522 % Snag the last bibentry in the list for later comparison
7523 \let\@temp@last@bibkey\@empty%
7524 \@for\@temp@bibkey:=#2\do{\let\@temp@last@bibkey\@temp@bibkey}%
7525 \LTRsidenote[] [#1]{%
7526 % Loop through all the bibentries, separating them with semicolons and spaces
7527 \normalsize\normalfont\@bidityftesidenote@LTRcitation@font%
7528 \setcounter{\@bidityftesidenote@num@bibkeys}{0}%
7529 \@for\@temp@bibkeyx:=#2\do{%
7530 \ifthenelse{\equal{\@temp@last@bibkey}{\@temp@bibkeyx}}{%
7531 {\ifthenelse{\equal{\value{\@bidityftesidenote@num@bibkeys}}{0}}{\and\ }%
7532 \@bidityftesidenote@trim@spaces\@temp@bibkeyx% trim spaces around bibkey
7533 \bibentry{\@temp@bibkeyx}}%
7534 {\@bidityftesidenote@trim@spaces\@temp@bibkeyx% trim spaces around bibkey
7535 \bibentry{\@temp@bibkeyx};\ }%
7536 \stepcounter{\@bidityftesidenote@num@bibkeys}%
7537 }%
7538 }%
7539 }
7540 \newcommand{\@bidityfteRTLsidenote@normal@cite}[2][Opt]{%
7541 % Snag the last bibentry in the list for later comparison
7542 \let\@temp@last@bibkey\@empty%
7543 \@for\@temp@bibkey:=#2\do{\let\@temp@last@bibkey\@temp@bibkey}%
7544 \RTLsidenote[] [#1]{%
7545 % Loop through all the bibentries, separating them with semicolons and spaces
7546 \normalsize\normalfont\@bidityftesidenote@citation@font%
7547 \setcounter{\@bidityftesidenote@num@bibkeys}{0}%
7548 \@for\@temp@bibkeyx:=#2\do{%
7549 \ifthenelse{\equal{\@temp@last@bibkey}{\@temp@bibkeyx}}{%
7550 {\ifthenelse{\equal{\value{\@bidityftesidenote@num@bibkeys}}{0}}{\and\ }%
7551 \@bidityftesidenote@trim@spaces\@temp@bibkeyx% trim spaces around bibkey
7552 \bibentry{\@temp@bibkeyx}}%
7553 {\@bidityftesidenote@trim@spaces\@temp@bibkeyx% trim spaces around bibkey
7554 \bibentry{\@temp@bibkeyx};\ }%
7555 \stepcounter{\@bidityftesidenote@num@bibkeys}%
7556 }%
7557 }%
7558 }
7559 %%
7560 % Macros for holding the list of cite keys until after the \sidenote
7561 \gdef\@bidityftesidenote@citations{}% list of cite keys
7562 \newcommand\@bidityftesidenote@add@citation[1]{\relax% adds a new bibkey to the list of cite
7563 \ifx\@bidityftesidenote@citations\@empty\else
7564 \g@addto@macro\@bidityftesidenote@citations{,}% separate by commas
7565 \fi
7566 \g@addto@macro\@bidityftesidenote@citations{#1}
7567 }
7568 \newcommand{\@bidityftesidenote@print@citations}[1][Opt]{% puts the citations in a margin no
7569 % Snag the last bibentry in the list for later comparison
7570 \let\@temp@last@bibkey\@empty%
7571 \@for\@temp@bibkey:=\@bidityftesidenote@citations\do{\let\@temp@last@bibkey\@temp@bibkey}%

```



```

7572 \marginpar{%
7573   \hbox{}\vspace*{#1}%
7574   \@bituftesidenote@citation@font%
7575   \@bituftesidenote@citation@justification%
7576   \@bituftesidenote@margin@par% use parindent and parskip settings for marginal text
7577   \vspace*{-1\baselineskip}%
7578   % Loop through all the bibentries, separating them with semicolons and spaces
7579   \setcounter{@bituftesidenote@num@bibkeys}{0}%
7580   \for\@temp@bibkeyx:=\@bituftesidenote@citations\do{%
7581     \ifthenelse{equal{\@temp@last@bibkey}{\@temp@bibkeyx}}{%
7582       {\ifthenelse{equal{\value{@bituftesidenote@num@bibkeys}}{0}}{and\ }%
7583       \@bituftesidenote@trim@spaces\@temp@bibkeyx% trim spaces around bibkey
7584       \bibentry{\@temp@bibkeyx}}%
7585       {\@bituftesidenote@trim@spaces\@temp@bibkeyx% trim spaces around bibkey
7586       \bibentry{\@temp@bibkeyx};\ }%
7587     \stepcounter{@bituftesidenote@num@bibkeys}%
7588   }%
7589 }%
7590 }
7591 %%
7592 % \cite behavior when executed within a sidenote
7593 \newcommand{\@bituftesidenote@sidenote@citations}{}% contains list of \cites in sidenote
7594 \newcommand{\@bituftesidenote@infotnote@cite}[1]{%
7595   \@bituftesidenote@add@citation{#1}
7596 }
7597 %%
7598 % Set the default \cite style. This is set and reset by the \sidenote command.
7599 \let\cite\@bituftesidenote@normal@cite
7600 \let\LTRcite\@bituftelTRsidenote@normal@cite
7601 \let\RTLcite\@bitufterteLsidenote@normal@cite
7602 %%
7603 % Transform existing \footnotes into \sidenotes
7604 % Sidenote: ``Where God meant footnotes to go.''' ---bituftesidenote
7605 \RequirePackage{optparams}% for our new sidenote commands -- provides multiple optional arguments
7606 \providecommand{\footnotelayout}{\@bituftesidenote@sidenote@font\@bituftesidenote@sidenote@font}%
7607 \renewcommand{\footnotelayout}{\@bituftesidenote@sidenote@font\@bituftesidenote@sidenote@font}%
7608 % Override footmisc's definition to set the sidenote marks (numbers) inside the
7609 % sidenote's text block.
7610 \bidi@patch@AfterPackage{bidi}{\long\def\@makefnmark{\@textsuperscript{\@bituftesidenote@sidenote@font}%
7611 % Set the in-text footnote mark in the same typeface as the body text itself.
7612 \bidi@patch@AfterPackage{bidi}{\def\@makefnmark{\hbox{\@textsuperscript{\normalfont\footnote@font}%
7613 \providecommand*\@multiplefootnotemark}{3sp}
7614 \providecommand*\@multifootsep}{,}
7615 \bidi@patch@AfterPackage{bidi}{%
7616 \renewcommand{\@footnotemark}{%
7617   \leavevmode%
7618   \ifhmode%
7619     \edef\@x@sf{\the\spacefactor}%
7620     \@bituftesidenote@check@multiple@sidenotes%
7621     \nobreak%
7622   \fi%
7623   \@makefnmark%
7624   \ifhmode\spacefactor\@x@sf\fi%
7625   \relax%

```



```

7626 }%
7627 }
7628 \newcommand{\@bidityftesidenote@check@multiple@sidenotes}{%
7629   \ifdim\lastkern=\multiplefootnotemarker\relax%
7630     \edef\@x@sf{\the\spacefactor}%
7631     \unkern%
7632     \textsuperscript{\multfootsep}%
7633     \spacefactor\@x@sf\relax%
7634   \fi
7635 }
7636 \bidi@patch@AfterPackage{bidi}{%
7637 \renewcommand\@footnotetext[2][Opt]{%
7638   \bidityftesidenotemarginpar{%
7639     \hbox{}\vspace*{#1}%
7640     \def\baselinestretch {\set@space@singlespace}%
7641     \reset@font%
7642     \bidi@@footnotetext@font% \reset@font\footnotesize%
7643     \@bidityftesidenote@margin@par% use parindent and parskip settings for marginal text
7644     \vspace*{-1\baselineskip}\noindent%
7645     \protected@edef\@currentlabel{%
7646       \csname p@footnote\endcsname\@thefnmark%
7647     }%
7648     \color@begingroup%
7649       \@makefntext{%
7650         \ignorespaces#2%
7651       }%
7652     \color@endgroup%
7653   }%
7654 }%
7655 \renewcommand\@LTRfootnotetext[2][Opt]{%
7656   \LTRbidityftesidenotemarginpar{%
7657     \hbox{}\vspace*{#1}%
7658     \def\baselinestretch {\set@space@singlespace}%
7659     \reset@font%
7660     \bidi@@LTRfootnotetext@font% \reset@font\footnotesize%
7661     \@bidityftesidenote@margin@par% use parindent and parskip settings for marginal text
7662     \vspace*{-1\baselineskip}\noindent%
7663     \protected@edef\@currentlabel{%
7664       \csname p@footnote\endcsname\@thefnmark%
7665     }%
7666     \color@begingroup%
7667       \@makefntext{%
7668         \ignorespaces#2%
7669       }%
7670     \color@endgroup%
7671   }%
7672 }%
7673 \renewcommand\@RTLfootnotetext[2][Opt]{%
7674   \RTLbidityftesidenotemarginpar{%
7675     \hbox{}\vspace*{#1}%
7676     \def\baselinestretch {\set@space@singlespace}%
7677     \reset@font%
7678     \bidi@@RTLfootnotetext@font% \reset@font\footnotesize%
7679     \@bidityftesidenote@margin@par% use parindent and parskip settings for marginal text

```



```

7680 \vspace*{-1\baselineskip}\noindent%
7681 \protected@edef\@currentlabel{%
7682 \csname p@footnote\endcsname\@thefnmark%
7683 }%
7684 \color@begingroup%
7685 \makefnmark%
7686 \ignorespaces#2%
7687 }%
7688 \color@endgroup%
7689 }%
7690 }%
7691 }
7692 %
7693 % Define \sidenote command. Can handle \cite.
7694 \newlength{\@bidityftesidenote@sidenote@vertical@offset}
7695 \setlength{\@bidityftesidenote@sidenote@vertical@offset}{0pt}
7696 % #1 = footnote num, #2 = vertical offset, #3 = footnote text
7697 \long\def\@bidityftesidenote@sidenote[#1][#2]#3{%
7698 \let\cite\@bidityftesidenote@infootnote@cite% use the in-sidenote \cite command
7699 \gdef\@bidityftesidenote@citations{}% clear out any old citations
7700 \ifthenelse{\NOT\isempty{#2}}{%
7701 \gsetlength{\@bidityftesidenote@sidenote@vertical@offset}{#2}%
7702 }{%
7703 \gsetlength{\@bidityftesidenote@sidenote@vertical@offset}{0pt}%
7704 }%
7705 \ifthenelse{\isempty{#1}}{%
7706 % no specific footnote number provided
7707 \stepcounter\@mpfn%
7708 \protected@xdef\@thefnmark{\thempfn}%
7709 \@footnotemark\@footnotetext[\@bidityftesidenote@sidenote@vertical@offset]{#3}%
7710 }{%
7711 % specific footnote number provided
7712 \begingroup%
7713 \csname c@\@mpfn\endcsname #1\relax%
7714 \unrestored@protected@xdef\@thefnmark{\thempfn}%
7715 \endgroup%
7716 \@footnotemark\@footnotetext[\@bidityftesidenote@sidenote@vertical@offset]{#3}%
7717 }%
7718 \@bidityftesidenote@print@citations% print any citations
7719 \let\cite\@bidityftesidenote@normal@cite% go back to using normal in-text \cite comm
7720 \let\LTRcite\@bidityfteLTRsidenote@normal@cite% go back to using normal in-text \LTR
7721 \let\RTLcite\@bidityfteRTLsidenote@normal@cite% go back to using normal in-text \RTL
7722 \unskip\ignorespaces% remove extra white space
7723 \kern-\multiplefootnotemarker% remove \kern left behind by sidenote
7724 \kern\multiplefootnotemarker\relax% add new \kern here to replace the one we yanked
7725 }
7726 \long\def\@LTRbidityftesidenote@sidenote[#1][#2]#3{%
7727 \let\cite\@bidityftesidenote@infootnote@cite% use the in-sidenote \cite command
7728 \gdef\@bidityftesidenote@citations{}% clear out any old citations
7729 \ifthenelse{\NOT\isempty{#2}}{%
7730 \gsetlength{\@bidityftesidenote@sidenote@vertical@offset}{#2}%
7731 }{%
7732 \gsetlength{\@bidityftesidenote@sidenote@vertical@offset}{0pt}%
7733 }%

```



```

7734 \ifthenelse{\isempty{#1}}{%
7735   % no specific footnote number provided
7736   \stepcounter{\@mpfn}%
7737   \protected@xdef\@thefnmark{\thempfn}%
7738   \@footnotemark\@LTRfootnotetext[\@bidityftesidenote@sidenote@vertical@offset]{#3}%
7739 }{%
7740   % specific footnote number provided
7741   \begingroup%
7742     \csname c@\@mpfn\endcsname #1\relax%
7743     \unrestored@protected@xdef\@thefnmark{\thempfn}%
7744   \endgroup%
7745   \@footnotemark\@LTRfootnotetext[\@bidityftesidenote@sidenote@vertical@offset]{#3}%
7746 }%
7747 \@bidityftesidenote@print@citations%          print any citations
7748 \let\cite\@bidityftesidenote@normal@cite%      go back to using normal in-text \cite comm
7749 \let\LTRcite\@bidityfteLTRsidenote@normal@cite% go back to using normal in-text \LTR
7750 \let\RTLcite\@bidityfteRTLSidenote@normal@cite% go back to using normal in-text \RTL
7751 \unskip\ignorespaces%          remove extra white space
7752 \kern-\multiplefootnotemarker% remove \kern left behind by sidenote
7753 \kern\multiplefootnotemarker\relax% add new \kern here to replace the one we yanked
7754 }
7755 \long\def\@RTLbidityftesidenote@sidenote[#1][#2]#3{%
7756   \let\cite\@bidityftesidenote@infootnote@cite% use the in-sidenote \cite command
7757   \gdef\@bidityftesidenote@citations{}%        clear out any old citations
7758   \ifthenelse{\NOT\isempty{#2}}{%
7759     \gsetlength{\@bidityftesidenote@sidenote@vertical@offset}{#2}%
7760   }{%
7761     \gsetlength{\@bidityftesidenote@sidenote@vertical@offset}{0pt}%
7762   }%
7763   \ifthenelse{\isempty{#1}}{%
7764     % no specific footnote number provided
7765     \stepcounter{\@mpfn}%
7766     \protected@xdef\@thefnmark{\thempfn}%
7767     \@footnotemark\@RTLfootnotetext[\@bidityftesidenote@sidenote@vertical@offset]{#3}%
7768   }{%
7769     % specific footnote number provided
7770     \begingroup%
7771       \csname c@\@mpfn\endcsname #1\relax%
7772       \unrestored@protected@xdef\@thefnmark{\thempfn}%
7773     \endgroup%
7774     \@footnotemark\@RTLfootnotetext[\@bidityftesidenote@sidenote@vertical@offset]{#3}%
7775   }%
7776   \@bidityftesidenote@print@citations%          print any citations
7777   \let\cite\@bidityftesidenote@normal@cite%      go back to using normal in-text \cite comm
7778   \let\LTRcite\@bidityfteLTRsidenote@normal@cite% go back to using normal in-text \LTR
7779   \let\RTLcite\@bidityfteRTLSidenote@normal@cite% go back to using normal in-text \RTL
7780   \unskip\ignorespaces%          remove extra white space
7781   \kern-\multiplefootnotemarker% remove \kern left behind by sidenote
7782   \kern\multiplefootnotemarker\relax% add new \kern here to replace the one we yanked
7783 }
7784 \newcommand{\sidenote}{\optparams{\@bidityftesidenote@sidenote}{[] [Opt]}}
7785 \newcommand{\LTRsidenote}{\optparams{\@LTRbidityftesidenote@sidenote}{[] [Opt]}}
7786 \newcommand{\RTLSidenote}{\optparams{\@RTLbidityftesidenote@sidenote}{[] [Opt]}}
7787 \bidi@patch@AfterPackage{bidi}{%

```



```

7788 \renewcommand{\footnote}{\optparams{\@bidituftesidenote@sidenote}{[] [Opt]}}%
7789 \renewcommand{\LTRfootnote}{\optparams{\@LTRbidituftesidenote@sidenote}{[] [Opt]}}%
7790 \renewcommand{\RTLfootnote}{\optparams{\@RTLbidituftesidenote@sidenote}{[] [Opt]}}%
7791 }
7792 %%
7793 % Sidenote without the footnote mark
7794 \newcommand\marginnote[2] [Opt]{%
7795   \let\cite\@bidituftesidenote@infootnote@cite%   use the in-sidenote \cite command
7796   \gdef\@bidituftesidenote@citations{}%          clear out any old citations
7797   \bidituftesidenotemarginpar{\hbox{}}\vspace*{#1}\@bidituftesidenote@marginnote@font\@biditu
7798   \@bidituftesidenote@print@citations%            print any citations
7799   \let\cite\@bidituftesidenote@normal@cite%       go back to using normal in-text \cite comm
7800   \let\LTRcite\@bidituftelTRSidenote@normal@cite% go back to using normal in-text \LTR
7801   \let\RLcite\@biditufterTLSidenote@normal@cite%  go back to using normal in-text \RTL
7802 }
7803 \newcommand\LTRmarginnote[2] [Opt]{%
7804   \let\cite\@bidituftesidenote@infootnote@cite%   use the in-sidenote \cite command
7805   \gdef\@bidituftesidenote@citations{}%          clear out any old citations
7806   \LTRbidituftesidenotemarginpar{\hbox{}}\vspace*{#1}\@bidituftesidenote@LTRmarginnote@font\@
7807   \@bidituftesidenote@print@citations%            print any citations
7808   \let\cite\@bidituftesidenote@normal@cite%       go back to using normal in-text \cite comm
7809   \let\LTRcite\@bidituftelTRSidenote@normal@cite% go back to using normal in-text \LTR
7810   \let\RLcite\@biditufterTLSidenote@normal@cite%  go back to using normal in-text \RTL
7811 }
7812 \newcommand\RTLmarginnote[2] [Opt]{%
7813   \let\cite\@bidituftesidenote@infootnote@cite%   use the in-sidenote \cite command
7814   \gdef\@bidituftesidenote@citations{}%          clear out any old citations
7815   \RTLbidituftesidenotemarginpar{\hbox{}}\vspace*{#1}\@bidituftesidenote@RTLmarginnote@font\@
7816   \@bidituftesidenote@print@citations%            print any citations
7817   \let\cite\@bidituftesidenote@normal@cite%       go back to using normal in-text \cite comm
7818   \let\LTRcite\@bidituftelTRSidenote@normal@cite% go back to using normal in-text \LTR
7819   \let\RLcite\@biditufterTLSidenote@normal@cite%  go back to using normal in-text \RTL
7820 }

```

## 52 File bidituftetoc.sty

```

7821 \NeedsTeXFormat{LaTeX2e}
7822 \ProvidesPackage{bidituftetoc}[2011/06/17 v0.1
7823 bidi implementation of tufte toc]
7824 \RequirePackage{titlesec,titletoc,xifthen,biditools}
7825 \newcommand{\@bidituftetoc@pkgname}{bidituftetoc}
7826 \newcommand{\bidituftetocError}[2]{\PackageError{\@bidituftetoc@pkgname}{#1}{#2}}
7827 %%
7828 % Turn off section numbering
7829 \setcounter{secnumdepth}{-1}
7830 \newboolean{@bidituftetoc@toc}
7831 \setboolean{@bidituftetoc@toc}{true}
7832 \DeclareOption{notoc}{\setboolean{@bidituftetoc@toc}{false}}
7833 \DeclareOption{toc}{\setboolean{@bidituftetoc@toc}{true}}
7834 \ProcessOptions
7835 %%
7836 % Make Tufte-style section headings and TOC formatting
7837 \bidi@patch@AfterPackage{bidi}{%
7838 \titleformat{\chapter}%

```



```

7839 [display]% shape
7840 {\relax\ifthenelse{\NOT\boolean{@biditytfloat@symmetric}}{\begin{fullwidth}}{}}% format
7841 {\itshape\huge\thechapter}% label
7842 {0pt}% horizontal separation between label and title body
7843 {\huge\rmfamily\itshape}% before the title body
7844 [\ifthenelse{\NOT\boolean{@biditytfloat@symmetric}}{\end{fullwidth}}{}}% after the title
7845 \titleformat{\section}%
7846 [hang]% shape
7847 {\normalfont\Large\itshape}% format applied to label+text
7848 {\thesection}% label
7849 {1em}% horizontal separation between label and title body
7850 {}% before the title body
7851 []% after the title body
7852 \titleformat{\subsection}%
7853 [hang]% shape
7854 {\normalfont\large\itshape}% format applied to label+text
7855 {\thesubsection}% label
7856 {1em}% horizontal separation between label and title body
7857 {}% before the title body
7858 []% after the title body
7859 \titleformat{\paragraph}%
7860 [runin]% shape
7861 {\normalfont\itshape}% format applied to label+text
7862 {\theparagraph}% label
7863 {1em}% horizontal separation between label and title body
7864 {}% before the title body
7865 []% after the title body
7866 \titlespacing*{\chapter}{0pt}{50pt}{40pt}
7867 \titlespacing*{\section}{0pt}{3.5ex plus 1ex minus .2ex}{2.3ex plus .2ex}
7868 \titlespacing*{\subsection}{0pt}{3.25ex plus 1ex minus .2ex}{1.5ex plus .2ex}
7869 }
7870 % Subsubsection and following section headings shouldn't be used.
7871 % See Bringhurst's _The Elements of Typography_, section 4.2.2.
7872 \renewcommand\subsubsection{%
7873   \biditytetocError{\noexpand\subsubsection is undefined by this class.%
7874     \MessageBreak See Robert Bringhurst's _The Elements of
7875     \MessageBreak Typographic Style_, section 4.2.2.
7876     \MessageBreak \noexpand\subsubsection was used}
7877   {From Bringhurst's _The Elements of Typographic Style_, section 4.2.2: Use as
7878     \MessageBreak many levels of headings as you need, no more and no fewer. Also see the m
7879     \MessageBreak related threads on Ask E.T. at http://www.edwardbiditytetoc.com/.}
7880 }
7881 \renewcommand\subparagraph{%
7882   \biditytetocError{\noexpand\subparagraph is undefined by this class.%
7883     \MessageBreak See Robert Bringhurst's _The Elements of
7884     \MessageBreak Typographic Style_, section 4.2.2.
7885     \MessageBreak \noexpand\subparagraph was used}
7886   {From Bringhurst's _The Elements of Typographic Style_, section 4.2.2: Use as
7887     \MessageBreak many levels of headings as you need, no more and no fewer. Also see the m
7888     \MessageBreak related threads on Ask E.T. at http://www.edwardbiditytetoc.com/.}
7889 }
7890 % Formatting for main TOC (printed in front matter)
7891 {section} [left] {above} {before w/label} {before w/o label} {filler + page} [after]
7892 \ifthenelse{\boolean{@biditytetoc@toc}}{%

```



```

7893 \bidi@patch@AfterPackage{bidi}{%
7894 \titlecontents{part}% FIXME
7895     [0em] % distance from left margin
7896     {\vspace{1.5\baselineskip}\begin{fullwidth}\LARGE\rmfamily\itshape} % above (global format)
7897     {\contentslabel{2em}} % before w/label (label = ``II'')
7898     {} % before w/o label
7899     {\rmfamily\upshape\qquad\thecontentspage} % filler + page (leaders and page num)
7900     [\end{fullwidth}] % after
7901 \titlecontents{chapter}%
7902     [0em] % distance from left margin
7903     {\vspace{1.5\baselineskip}\begin{fullwidth}\LARGE\rmfamily\itshape} % above (global format)
7904     {\hspace*{0em}\contentslabel{2em}} % before w/label (label = ``2'')
7905     {\hspace*{0em}} % before w/o label
7906     {\rmfamily\upshape\qquad\thecontentspage} % filler + page (leaders and page num)
7907     [\end{fullwidth}] % after
7908 \titlecontents{section}% FIXME
7909     [0em] % distance from left margin
7910     {\vspace{0\baselineskip}\begin{fullwidth}\Large\rmfamily\itshape} % above (global format)
7911     {\hspace*{2em}\contentslabel{2em}} % before w/label (label = ``2.6'')
7912     {\hspace*{2em}} % before w/o label
7913     {\rmfamily\upshape\qquad\thecontentspage} % filler + page (leaders and page num)
7914     [\end{fullwidth}] % after
7915 \titlecontents{subsection}% FIXME
7916     [0em] % distance from left margin
7917     {\vspace{0\baselineskip}\begin{fullwidth}\large\rmfamily\itshape} % above (global format)
7918     {\hspace*{4em}\contentslabel{4em}} % before w/label (label = ``2.6.1'')
7919     {\hspace*{4em}} % before w/o label
7920     {\rmfamily\upshape\qquad\thecontentspage} % filler + page (leaders and page num)
7921     [\end{fullwidth}] % after
7922 \titlecontents{paragraph}% FIXME
7923     [0em] % distance from left margin
7924     {\vspace{0\baselineskip}\begin{fullwidth}\normalsize\rmfamily\itshape} % above (global format)
7925     {\hspace*{6em}\contentslabel{2em}} % before w/label (label = ``2.6.0.0.1'')
7926     {\hspace*{6em}} % before w/o label
7927     {\rmfamily\upshape\qquad\thecontentspage} % filler + page (leaders and page num)
7928     [\end{fullwidth}] % after
7929 }%
7930 {}
7931 %%
7932 % Format lists of figures/tables
7933 \renewcommand\listoffigures{%
7934     \@ifundefined{chapter}%
7935         {\section*{\listfigurename}}%
7936         {\chapter*{\listfigurename}}%
7937 % \begin{fullwidth}%
7938 % \@starttoc{lof}%
7939 % \end{fullwidth}%
7940 }
7941 \renewcommand\listoftables{%
7942     \@ifundefined{chapter}%
7943         {\section*{\listtablename}}%
7944         {\chapter*{\listtablename}}%
7945 % \begin{fullwidth}%
7946 % \@starttoc{lot}%

```



```

7947 % \end{fullwidth}%
7948 }
7949 \newcommand{\@bidityfttoc@lof@line}[2]{%
7950 % #1 is the figure/table number and its caption text
7951 % #2 is the page number on which the figure/table appears
7952 \leftskip 0.0em
7953 \rightskip 0em
7954 \parfillskip 0em plus 1fil
7955 \parindent 0.0em
7956 \@afterindenttrue
7957 \interlinepenalty\@M
7958 \leavevmode
7959 \@tempdima 2.0em
7960 \if@RTL\advance\rightskip\@tempdima\else\advance\leftskip\@tempdima\fi
7961 \null\nobreak\hskip -\if@RTL\rightskip\else\leftskip\fi
7962 {#1}\nobreak\quad\nobreak#2%
7963 \par%
7964 }
7965 \renewcommand*\l@figure{\@bidityfttoc@lof@line}
7966 \let\l@table\l@figure

```

### 53 File `bidityftegeneralstructure.sty`

```

7967 \NeedsTeXFormat{LaTeX2e}
7968 \ProvidesPackage{bidityftegeneralstructure}[2011/06/18 v0.1
7969 bidi implementation of tufte general structure]
7970 \renewcommand\small{%
7971   \@setfontsize\small\@ixpt{12}%
7972   \abovedisplayskip 8.5\p@ \@plus3\p@ \@minus4\p@
7973   \abovedisplayshortskip \z@ \@plus2\p@
7974   \belowdisplayshortskip 4\p@ \@plus2\p@ \@minus2\p@
7975   \def\@listi{\leftmargin\leftmargini
7976     \topsep 4\p@ \@plus2\p@ \@minus2\p@
7977     \parsep 2\p@ \@plus\p@ \@minus\p@
7978     \itemsep \parsep}%
7979   \belowdisplayskip \abovedisplayskip
7980 }
7981 \renewcommand\scriptsize{\@setfontsize\scriptsize\@viipt\@viiipt}
7982 \renewcommand\tiny{\@setfontsize\tiny\@vpt\@vipt}
7983 \renewcommand\large{\@setfontsize\large\@xipt{15}}
7984 \renewcommand\Large{\@setfontsize\Large\@xipt{16}}
7985 \renewcommand\LARGE{\@setfontsize\LARGE\@xivpt{18}}
7986 \renewcommand\huge{\@setfontsize\huge\@xxpt{30}}
7987 \renewcommand\Huge{\@setfontsize\Huge{24}{36}}
7988 \setlength\leftmargini {1pc}
7989 \setlength\leftmarginii {1pc}
7990 \setlength\leftmarginiii {1pc}
7991 \setlength\leftmarginiv {1pc}
7992 \setlength\leftmarginv {1pc}
7993 \setlength\leftmarginvi {1pc}
7994 \setlength\labelsep {0.5pc}
7995 \setlength\labelwidth {\leftmargini}
7996 \addtolength\labelwidth{-\labelsep}
7997 \setlength{\parindent}{1.0pc}%

```



```

7998 \setlength{\parskip}{0pt}%
7999 \RequirePackage{ragged2e}
8000 \setlength{\RaggedRightRightskip}{\z@ plus 0.08\hsize}
8001 % Paragraph indentation and separation for normal text
8002 \newcommand{\@biditytgeneralstructure@reset@par}{%
8003   \setlength{\RaggedRightParindent}{1.0pc}%
8004   \setlength{\JustifyingParindent}{1.0pc}%
8005   \setlength{\parindent}{1pc}%
8006   \setlength{\parskip}{0pt}%
8007 }
8008 \@biditytgeneralstructure@reset@par
8009 % Require paralist package for tighter lists
8010 \RequirePackage{paralist}
8011 % Add rightmargin to compactenum
8012 \def\@compactenum{%
8013   \expandafter\list\csname label\@enumctr\endcsname{%
8014     \usecounter{\@enumctr}%
8015     \rightmargin=2em% added this
8016     \parsep\plparsep
8017     \itemsep\plitemsep
8018     \topsep\pltopsep
8019     \partopsep\plpartopsep
8020     \def\makelabel##1{\hss\llap{##1}}}%
8021 %%
8022 % An environment for paragraph-style section
8023 \providecommand\newthought[1]{%
8024   \addvspace{1.0\baselineskip plus 0.5ex minus 0.2ex}%
8025   \noindent\textbf{#1}%
8026 }
8027 %%
8028 % Redefine the display environments (quote, quotation, etc.)
8029 \renewenvironment{verse}
8030   {\let\\\@centercr
8031    \list{}\listitemsep \z@
8032    \itemindent -1pc%
8033    \listparindent\itemindent
8034    \rightmargin \leftmargin
8035    \advance\leftmargin 1pc}%
8036   \small%
8037   \item\relax}
8038 {\endlist}
8039 \renewenvironment{quotation}
8040   {\list{}\listparindent 1pc%
8041    \itemindent \listparindent
8042    \rightmargin \leftmargin
8043    \parsep \z@ \@plus\p@}%
8044   \small%
8045   \item\relax\noindent\ignorespaces}
8046 {\endlist}
8047 \renewenvironment{quote}
8048   {\list{}\listparindent\rightmargin\leftmargin}%
8049   \small%
8050   \item\relax}
8051 {\endlist}

```



```

8052 % Italicize description run-in headings (instead of the default bold)
8053 \renewcommand*{\descriptionlabel[1]{\hspace\labelsep\normalfont\em #1}
8054 %%
8055 % Redefine \bibsection to not mark the running heads.
8056 % (Code modified from natbib.sty.)
8057 \@ifundefined{chapter}%
8058   {\renewcommand\bibsection{\section*{\refname}}}
8059   {\@ifundefined{NAT@sectionbib}%
8060     {\renewcommand\bibsection{\chapter{\bibname}}}
8061     {\renewcommand\bibsection{\section*{\bibname}}}}
8062 \RequirePackage{multicol}
8063 \renewenvironment{theindex}{%
8064   \@ifundefined{chapter}%
8065     {\section*{\indexname}}%
8066     {\chapter{\indexname}}%
8067   \begin{fullwidth}%
8068   \small%
8069   \parskip0pt%
8070   \parindent0pt%
8071   \let\item\@idxitem%
8072   \begin{multicols}{3}%
8073 }{%
8074   \end{multicols}%
8075   \end{fullwidth}%
8076 }
8077 \AtBeginDocument{%
8078 \renewcommand\@idxitem{\par\hangindent \if@RTL-\fi2em}%
8079 \renewcommand\subitem{\par\hangindent \if@RTL-\fi3em\hspace*{1em}}%
8080 \renewcommand\subsubitem{\par\hangindent \if@RTL-\fi4em\hspace*{2em}}%
8081 \renewcommand\indexspace{\par\addvspace{1.0\baselineskip plus 0.5ex minus 0.2ex}\relax}%
8082 \newcommand{\lettergroup}[1]{% swallow the letter heading in the index

```

## 54 File `bidituftehyperref.sty`

```

8083 \NeedsTeXFormat{LaTeX2e}
8084 \ProvidesPackage{bidituftehyperref}[2011/06/18 v0.1
8085 bidi implementation of tufte hyperref]
8086 %%
8087 % Color
8088 \RequirePackage[usenames,dvipsnames,svgnames]{xcolor}%
8089 \newboolean{@bidituftehyperref@loadhyper}
8090 \setboolean{@bidituftehyperref@loadhyper}{true}
8091 \DeclareOption{hyper}{\setboolean{@bidituftehyperref@loadhyper}{true}}
8092 \DeclareOption{nohyper}{\setboolean{@bidituftehyperref@loadhyper}{false}}
8093 \ProcessOptions
8094 %% Loads the hyperref package and sets some default options.
8095 \newcommand{\bidituftehyperrefLoadHyperref}{%
8096 \RequirePackage[hyperfootnotes=false,colorlinks=true]{hyperref}
8097 \hypersetup{%
8098   bookmarksdepth = section,
8099   citecolor = DarkGreen,
8100   linkcolor = DarkBlue,
8101   % pagecolor = DarkBlue,
8102   urlcolor = DarkGreen,

```



```

8103 }%
8104 }
8105 \ifthenelse{\boolean{@biditytfttitle@loadhyper}}{%
8106   \biditytfttitlehyperrefLoadHyperref%
8107 }{% hyperfootnotes override our modifications to the \footnote* and \@footnote* commands.
8108   \PassOptionsToPackage{hyperfootnotes=false}{hyperref}
8109 }

```

## 55 File biditytfttitle.sty

```

8110 \NeedsTeXFormat{LaTeX2e}
8111 \ProvidesPackage{biditytfttitle}[2011/06/18 v0.1
8112 bidi implementation of tufte title]
8113 \RequirePackage{biditytools}
8114 %%
8115 % `titlepage' option -- creates a full title page with \maketitle
8116 \newboolean{@biditytfttitle@titlepage}
8117 \DeclareOption{titlepage}{\setboolean{@biditytfttitle@titlepage}{true}}
8118 \DeclareOption{notitlepage}{\setboolean{@biditytfttitle@titlepage}{false}}
8119 % Default `book' and `handout' options
8120 \@ifclassloaded{book}{%
8121   \ExecuteOptions{titlepage}}{%
8122   \@ifclassloaded{article}{%
8123     \ExecuteOptions{notitlepage}}%
8124   {}
8125 \ProcessOptions
8126 %%
8127 % Modified \title, \author, and \date commands. These store the
8128 % (footnote-less) values in \plaintitle, \plainauthor, and \thedata, respectively.
8129 \newcommand{\plaintitle}{}% plain-text-only title
8130 \newcommand{\plainauthor}{}% plain-text-only author
8131 \newcommand{\plainpublisher}{}% plain-text-only publisher
8132 \newcommand{\thanklesstitle}{}% full title text minus \thanks{}
8133 \newcommand{\thanklessauthor}{}% full author text minus \thanks{}
8134 \newcommand{\thanklesspublisher}{}% full publisher minus \thanks{}
8135 \newcommand{\@publisher}{}% full publisher with \thanks{}
8136 \newcommand{\thedata}{\today}
8137 \bidi@patch@AfterPackage{bidi}{%
8138   \renewcommand{\thanks}[1]{\footnote{#1}}
8139   \renewcommand{\LTRthanks}[1]{\LTRfootnote{#1}}
8140   \renewcommand{\RTLthanks}[1]{\RTLfootnote{#1}}
8141 }
8142 \renewcommand{\title}[2][{}]{%
8143   \gdef\@title{#2}%
8144   \begingroup%
8145     % TODO store contents of \thanks command
8146     \renewcommand{\thanks}[1]{}% swallow \thanks contents
8147     \renewcommand{\LTRthanks}[1]{}% swallow \LTRthanks contents
8148     \renewcommand{\RTLthanks}[1]{}% swallow \RTLthanks contents
8149     \protected@xdef\thanklesstitle{#2}%
8150   \endgroup%
8151   \ifthenelse{\isempty{#1}}{%
8152     {\renewcommand{\plaintitle}{\thanklesstitle}}% use thankless title
8153     {\renewcommand{\plaintitle}{#1}}% use provided plain-text title

```



```

8154 \@ifundefined{hypersetup}%
8155   {}% hyperref is not loaded; do nothing
8156   {\hypersetup{pdftitle={\plaintitle}}}% set the PDF metadata title
8157 }
8158 \let\@author\@empty% suppress default latex.ltx ``no author'' warning
8159 \renewcommand{\author}[2][]{%
8160   \ifthenelse{\isempty{#2}}{\gdef\@author{#2}}%
8161   \begingroup%
8162     % TODO store contents of \thanks command
8163     \renewcommand{\thanks}[1]{}% swallow \thanks contents
8164     \renewcommand{\LTRthanks}[1]{}% swallow \LTRthanks contents
8165     \renewcommand{\RTLthanks}[1]{}% swallow \RTLthanks contents
8166     \protected@xdef\thanklessauthor{#2}%
8167   \endgroup%
8168   \ifthenelse{\isempty{#1}}%
8169     {\renewcommand{\plainauthor}{\thanklessauthor}}% use thankless author
8170     {\renewcommand{\plainauthor}{#1}}% use provided plain-text author
8171 \@ifundefined{hypersetup}%
8172   {}% hyperref is not loaded; do nothing
8173   {\hypersetup{pdfauthor={\plainauthor}}}% set the PDF metadata author
8174 }
8175 \renewcommand{\date}[1]{%
8176   \gdef\@date{#1}%
8177   \begingroup%
8178     % TODO store contents of \thanks command
8179     \renewcommand{\thanks}[1]{}% swallow \thanks contents
8180     \renewcommand{\LTRthanks}[1]{}% swallow \LTRthanks contents
8181     \renewcommand{\RTLthanks}[1]{}% swallow \RTLthanks contents
8182     \protected@xdef\thedata{#1}%
8183   \endgroup%
8184 }
8185 %%
8186 % Provides a \publisher command to set the publisher
8187 \newcommand{\publisher}[2][]{%
8188   \gdef\@publisher{#2}%
8189   \begingroup%
8190     \renewcommand{\thanks}[1]{}% swallow \thanks contents
8191     \renewcommand{\LTRthanks}[1]{}% swallow \LTRthanks contents
8192     \renewcommand{\RTLthanks}[1]{}% swallow \RTLthanks contents
8193     \protected@xdef\thanklesspublisher{#2}%
8194   \endgroup%
8195   \ifthenelse{\isempty{#1}}%
8196     {\renewcommand{\plainpublisher}{\thanklesspublisher}}% use thankless publisher
8197     {\renewcommand{\plainpublisher}{#1}}% use provided plain-text publisher
8198 }
8199 %%
8200 % Produces a full title page
8201 \newcommand{\maketitlepage}[0]{%
8202   \cleardoublepage%
8203   {%
8204     \bfseries%
8205     \begin{fullwidth}%
8206       \fontsize{18}{20}\selectfont\par\noindent\thanklessauthor%
8207       \vspace{11.5pc}%

```



```

8208 \fontsize{36}{40}\selectfont\par\noindent\thanklesstitle%
8209 \vfill%
8210 \fontsize{14}{16}\selectfont\par\noindent\thanklesspublisher%
8211 \end{fullwidth}%
8212 }
8213 \thispagestyle{empty}%
8214 \clearpage%
8215 }
8216 %%
8217 % Title block
8218 \bidi@AfterEndPreamble{%
8219 \renewcommand{\maketitle}{%
8220 \newpage%
8221 \global\@topnum\z@% prevent floats from being placed at the top of the page
8222 \begin{group}
8223 \setlength{\parindent}{0pt}%
8224 \setlength{\parskip}{4pt}%
8225 \let\@title\@empty%
8226 \let\@author\@empty%
8227 \let\@date\@empty%
8228 \gdef\@title{\LARGE\itshape\@title\par}%
8229 \gdef\@author{\Large\itshape\@author\par}%
8230 \gdef\@date{\Large\itshape\@date\par}%
8231 \@title%
8232 \@author%
8233 \@date%
8234 \end{group}%
8235 \thispagestyle{plain}% suppress the running head
8236 }%
8237 }
8238 %%
8239 % Title page (if the `titlepage' option was passed to the bidityttitle-handout
8240 % class.)
8241 \bidi@AfterEndPreamble{%
8242 \ifthenelse{\boolean{@bidityttitle@titlepage}}
8243 {\renewcommand{\maketitle}{\maketitlepage}}
8244 {}
8245 }
8246 %%
8247 % When \cleardoublepage is called, produce a blank (empty) page -- i.e.,
8248 % without headers and footers
8249 \def\cleardoublepage{\clearpage\if@twoside\ifodd\c@page\else
8250 \hbox{}
8251 %\vspace*{\fill}
8252 %\begin{center}
8253 % This page intentionally contains only this sentence.
8254 %\end{center}
8255 %\vspace{\fill}
8256 \thispagestyle{empty}
8257 \newpage
8258 \if@twocolumn\hbox{}\newpage\fi\fi\fi}

```

## 56 File bidityttitle-handout.cls



```

8259 \NeedsTeXFormat{LaTeX2e}[1994/06/01]
8260 \ProvidesClass{biditufte-handout}[2011/06/18 v0.1 biditufte-handout class]
8261 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{article}}
8262 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{bidituftefloat}}
8263 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{bidituftetoc}}
8264 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{bidituftehyperref}}
8265 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{bidituftetitle}}
8266 \ProcessOptions\relax
8267 \LoadClass{article}
8268 \RequirePackage{bidituftefloat}
8269 \RequirePackage{bidituftesidenote}
8270 \RequirePackage{bidituftetoc}
8271 \RequirePackage{bidituftegeneralstructure}
8272 \RequirePackage{bidituftehyperref}
8273 \RequirePackage{bidituftetitle}
8274 \renewenvironment{abstract}
8275   {\begin{quotation}}
8276   {\end{quotation}}
8277 \AtBeginDocument{%
8278 \IfFileExists{biditufte-handout.cfg}
8279   {\input{biditufte-handout.cfg}
8280    \ClassInfo{biditufte-handout}{Loading biditufte-handout configuration file \@gobble}}
8281   {}%
8282 }

```

## 57 File biditufte-book.cls

```

8283 \NeedsTeXFormat{LaTeX2e}[1994/06/01]
8284 \ProvidesClass{biditufte-book}[2011/06/18 v0.1 biditufte-book class]
8285 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{book}}
8286 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{bidituftefloat}}
8287 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{bidituftetoc}}
8288 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{bidituftehyperref}}
8289 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{bidituftetitle}}
8290 \ProcessOptions\relax
8291 \LoadClass{book}
8292 \RequirePackage{bidituftefloat}
8293 \RequirePackage{bidituftesidenote}
8294 \RequirePackage{bidituftetoc}
8295 \RequirePackage{bidituftegeneralstructure}
8296 \RequirePackage{bidituftehyperref}
8297 \RequirePackage{bidituftetitle}
8298 %%
8299 % Set up any book-specific stuff now
8300 %%
8301 % The front matter in Tufte's /Beautiful Evidence/ contains everything up
8302 % to the opening page of Chapter 1. The running heads, when they appear,
8303 % contain only the (arabic) page number in the outside corner.
8304 %\newif\if@mainmatter \@mainmattertrue
8305 \renewcommand\frontmatter{%
8306   \cleardoublepage%
8307   \@mainmatterfalse%
8308   \pagenumbering{arabic}%
8309   %\pagestyle{plain}%

```



```

8310 \fancyhf{}%
8311 \ifthenelse{\boolean{@biditytuftefloat@twoside}}%
8312 {\fancyhead[LE,RO]{\thepage}}%
8313 {\fancyhead[RE,RO]{\thepage}}%
8314 }
8315 %%
8316 % The main matter in Tufte's /Beautiful Evidence/ doesn't restart the page
8317 % numbering---it continues where it left off in the front matter.
8318 \renewcommand\mainmatter{%
8319 \cleardoublepage%
8320 \@mainmattertrue%
8321 \fancyhf{}%
8322 \ifthenelse{\boolean{@biditytuftefloat@twoside}}%
8323 {\renewcommand{\chaptermark}[1]{\markboth{##1}{}}}%
8324 {\fancyhead[LE]{\thepage\quad\smallcaps{\newlinetospace{\plaintitle}}}% book title
8325 \fancyhead[RO]{\smallcaps{\newlinetospace{\leftmark}}\quad\thepage}}% chapter title
8326 {\fancyhead[RE,RO]{\smallcaps{\newlinetospace{\plaintitle}}\quad\thepage}}% book title
8327 }
8328 %%
8329 % The back matter contains appendices, indices, glossaries, endnotes,
8330 % bibliographies, list of contributors, illustration credits, etc.
8331 \renewcommand\backmatter{%
8332 \if@openright%
8333 \cleardoublepage%
8334 \else%
8335 \clearpage%
8336 \fi%
8337 \@mainmatterfalse%
8338 }
8339 %%
8340 % Only show the chapter titles in the table of contents
8341 \setcounter{tocdepth}{0}
8342 \AtBeginDocument{%
8343 \IfFileExists{biditytufte-book.cfg}
8344 {\input{biditytufte-book.cfg}
8345 \ClassInfo{biditytufte-book}{Loading biditytufte-book configuration file \@gobble}}
8346 {}%
8347 }

```

## 58 File bidipoem.sty

```

8348 \NeedsTeXFormat{LaTeX2e}
8349 \ProvidesPackage{bidipoem}%
8350 [2019/03/03 v1.0 Environments for typesetting Persian traditional and modern poems]
8351
8352 % Usage:
8353 %
8354 % \Setversedim #1#2 % define the layout (within a group):
8355 % #1 = length of both half-verses
8356 % #2 = separation distance = length of a connection, if present
8357 % Variant:
8358 % \Setversedim #1[#2]#3 % for half-verses of unequal length
8359 % #1 = length of first (=right) half-verse
8360 % #2 = length of second (=left) half-verse

```



```

8361 % #3 = separation distance = length of a connection, if present
8362 %
8363 % \traditionalhalfverses #1#2 % typeset two separated half-verses
8364 % #1 = text of first (=right) half-verse
8365 % #2 = text of second (=left) half-verse
8366 % Variant:
8367 % \traditionalhalfverses #1[#2]#3 % typeset two connected half-verses
8368 % #1 = text of first (=right) half-verse
8369 % #2 = text of connection
8370 % #3 = text of second (=left) half-verse
8371 %
8372 % Alternative (if preferred):
8373 %
8374 % \traditionalconnverses #1#2#3 % = \traditionalhalfverses #1[#2]#3
8375
8376
8377 \newcommand*{\bidipoem@spreadbox}[2]{\hbox to #1{#2}}
8378
8379 % define the layout, verses will be centered
8380
8381 \newdimen \bidipoem@hvlen \newdimen \bidipoem@hvsep
8382 \newdimen \bidipoem@hvind \newdimen \bidipoem@@hvlen
8383
8384 \newcommand*{\Setversedim}[2]{% set lengths of half-verse, [separation]
8385 \bidipoem@hvind \textwidth
8386 \bidipoem@hvlen #1\relax \advance \bidipoem@hvind -\bidipoem@hvlen
8387 \ifx [#2\def \bidipoem@next {\bidipoem@set@verseI []\else
8388 \bidipoem@@hvlen \bidipoem@hvlen \def \bidipoem@next {\bidipoem@set@@verse {#2}}\fi \bidipoem@
8389
8390 \def \bidipoem@set@verseI [#1]{% optional parameter
8391 \bidipoem@@hvlen #1\relax \bidipoem@set@@verse }
8392
8393 \newcommand*{\bidipoem@set@@verse}[1]{% separation
8394 \advance \bidipoem@hvind -\bidipoem@@hvlen \bidipoem@hvsep #1\relax
8395 \advance \bidipoem@hvind -\bidipoem@hvsep \divide \bidipoem@hvind 2 }
8396
8397 \newcommand*{\traditionalconnverses}[3]{% first half-verse, connection, second half-verse
8398 \ifdim Opt > \bidipoem@hvind %
8399 \bidipoem@spreadbox \bidipoem@hvlen {#1}\ \hfill % first block
8400 \else
8401 \noindent \hskip \bidipoem@hvind \relax \bidipoem@spreadbox \bidipoem@hvlen {#1}\fi
8402 \bidipoem@spreadbox \bidipoem@hvsep {#2}% separator
8403 \bidipoem@spreadbox \bidipoem@@hvlen {#3}% second block
8404 \par }
8405
8406 % macro for two half verses
8407 \newcommand*{\traditionalhalfverses}[2]{% optional parameter?
8408 \ifx [#2\def \bidipoem@half@verses@next{\bidipoem@half@verses {#1}[]%
8409 \else\def \bidipoem@half@verses@next{\bidipoem@half@verses {#1}[\hfill]{#2}}\fi%
8410 \bidipoem@half@verses@next}
8411
8412 \def \bidipoem@half@verses #1[#2]#3{% first[mid]second
8413 \traditionalconnverses {#1}{#2}{#3}}
8414

```



```

8415
8416 {\catcode\^^M=\active % these lines must end with %
8417 \gdef\traditionalpoem@obeylines{\catcode\^^M=\active \let^^M\traditionalpoem@par}%
8418 \global\let^^M\traditionalpoem@par} % this is in case ^^M appears in a \write
8419 {\catcode\^^M=\active % these lines must end with %
8420 \gdef\modernpoem@obeylines{\catcode\^^M=\active \let^^M\modernpoem@par}%
8421 \global\let^^M\modernpoem@par} % this is in case ^^M appears in a \write
8422 \def\poemcolsepskip{.1\versewidth plus .1\versewidth minus .05\versewidth}
8423 \def\poemmarginskip{1em plus 1fil minus 1em}
8424 \def\poemextrabaseskip{0\baselineskip}
8425 \def\poemskip{\medskip}
8426 \newcommand{\bidipoem@openbox}{\leavevmode
8427 \hbox to.77778em{%
8428 \hfil\vrule
8429 \vbox to.675em{\hrule width.6em\vfil\hrule}%
8430 \vrule\hfil}}
8431 \def\poemblocksep{\quad\hbox{\bidipoem@openbox}}
8432 \newdimen\versewidth
8433 \newtoks\bidipoem@p@ftn
8434 \def\poem@verse#1{%
8435 \ifdim\wd#1>\new@poem@width
8436 \xdef\new@poem@width{\the\wd#1}%
8437 \ifdim\new@poem@width>\poem@width
8438 \xdef\poem@width{\new@poem@width}%
8439 \global\let\poem@needrun\relax
8440 \fi
8441 \fi
8442 \hbox to\poem@width{\unhbox#1}%
8443 \global\bidipoem@p@ftn\expandafter{\expandafter}\the\bidipoem@p@ftn%
8444 }
8445 \def\poem@linebegin{\vadjust{}\hskip\@flushglue\hskip\poemmarginskip\relax}
8446 \def\poem@lineend{\nobreak\hskip\poemmarginskip\hskip\@flushglue\vadjust{}}
8447 \def\poem@lineversesep{%
8448 \nobreak
8449 \hskip\z@ plus 1filll%
8450 \penalty600%
8451 \hskip\poemcolsepskip
8452 \hskip\z@ plus -2filll%
8453 \vadjust{}}%
8454 \nobreak
8455 \hskip\z@ plus 1filll%
8456 }
8457 \def\poem@lineparsebegin{%
8458 \halign\bgroup
8459 \global\setbox\verse@i=\hbox{%
8460 \let\@footnotetext\bidipoem@p@ftntext%
8461 \let\@LTRfootnotetext\bidipoem@p@LTRftntext%
8462 \let\@RTLfootnotetext\bidipoem@p@RTLftntext%
8463 \let\@xfootnotenext\bidipoem@p@xftntext%
8464 \let\@xfootnote\bidipoem@p@xfootnote%
8465 \let\@xLTRfootnotenext\bidipoem@p@xLTRftntext%
8466 \let\@xLTRfootnote\bidipoem@p@xLTRfootnote%
8467 \let\@xRTLfootnotenext\bidipoem@p@xRTLftntext%
8468 \let\@xRTLfootnote\bidipoem@p@xRTLfootnote%

```



```

8469 \ignorespaces##\unskip}&&
8470 \global\setbox\verse@ii=\hbox{%
8471 \let\@footnotetext\bidipoem@p@ftntext%
8472 \let\@LTRfootnotetext\bidipoem@p@LTRftntext%
8473 \let\@RTLfootnotetext\bidipoem@p@RTLftntext%
8474 \let\@xfootnotenext\bidipoem@p@xftntext%
8475 \let\@xfootnote\bidipoem@p@xfootnote%
8476 \let\@xLTRfootnotenext\bidipoem@p@xLTRftntext%
8477 \let\@xLTRfootnote\bidipoem@p@xLTRfootnote%
8478 \let\@xRTLfootnotenext\bidipoem@p@xRTLftntext%
8479 \let\@xRTLfootnote\bidipoem@p@xRTLfootnote%
8480 \ignorespaces##\unskip}
8481 \cr
8482 }
8483 \def\poem@lineparseend{%
8484 \crr\egroup
8485 \vskip-\baselineskip
8486 }
8487 \def\traditionalpoem@cr{%
8488 \cr\poem@line
8489 }
8490 \newbox\verse@i
8491 \newbox\verse@ii
8492 \newif\ifpoem@started
8493
8494 \def\poem@line{%
8495 \poem@lineparseend
8496 \ifdim\wd\verse@i>\z@\global\poem@startedtrue\fi
8497 \ifdim\wd\verse@ii>\z@\global\poem@startedtrue\fi
8498 \ifpoem@started
8499 \ifdim\wd\verse@ii>\z@\else
8500 \nopagebreak[3]
8501 \fi
8502 \leavevmode
8503 \poem@linebegin
8504 \poem@verse\verse@i
8505 \ifdim\wd\verse@ii>\z@
8506 \poem@lineversesep
8507 \poem@verse\verse@ii
8508 \fi
8509 \poem@lineend
8510 % \nopagebreak
8511 \par
8512 \vskip\poemextrabaselineskip
8513 \fi
8514 \poem@lineparsebegin
8515 }
8516 \def\@traditionalpoem{%
8517 \stepcounter{poem@no}
8518 \ifnum\max@poem@no<\number\c@poem@no%
8519 \xdef\poem@width{\z@}%
8520 \else
8521 \xdef\poem@width{\poem@prop{poem@width}}%
8522 \fi

```



```

8523 \xdef\new@poem@width{\z@}%
8524 \global\versewidth=\poem@width
8525 \poemskip\par
8526 \begingroup
8527 \tabskip=\z@
8528 \parskip=\z@
8529 \parindent=\z@
8530 \parfillskip=\z@
8531 \rightskip=\z@
8532 \leftskip=\z@
8533 \widowpenalty=10000% No break between verses of the same line.
8534 \clubpenalty=10000% Same as above. Not really needed.
8535 \def\newblock{\hfil\poemblocksep\hfil\null}%
8536 \def\traditionalpoem@par{\traditionalpoem@cr}% Redefine \par for possible \obeylines
8537 \def\{\global\poem@startedtrue\traditionalpoem@cr}%
8538 \global\poem@startedfalse
8539 \csname poem@obeylines\endcsname
8540 \let\poem@obeylines\relax
8541 \poem@lineparsebegin
8542 }
8543 \def\@endtraditionalpoem{%
8544 \cr
8545 \ifdim\wd\verse@i>\z@\poem@line\else\ifdim\wd\verse@ii>\z@\poem@line\else
8546 \noalign{%
8547 \skip0=\poemextrabaselineskip
8548 \vskip-\skip0
8549 \vskip-\baselineskip
8550 }%
8551 \fi\fi
8552 \poem@lineparseend
8553 \endgroup
8554 \par
8555 \vskip\baselineskip
8556 \poemskip
8557 \ifdim\new@poem@width<\poem@width
8558 \global\let\poem@needrun\relax
8559 \fi
8560 \poem@write@aux{\poem@width<\romannumeral\c@poem@no}{\new@poem@width}%
8561 \ifx\AtEndDocument\undefined\poem@finish\fi
8562 \@endparenv
8563 }
8564
8565
8566 \long\def\bidipoem@p@ftntext#1{%
8567 \edef\@temp{x{\the\bidipoem@p@ftn\noexpand\footnotetext[\the\csname c@\mpfn\endcsname]}}%
8568 \global\bidipoem@p@ftn\expandafter{\@temp{x{#1}}}%
8569 \long\def\bidipoem@p@LTRftntext#1{%
8570 \edef\@temp{xii{\the\bidipoem@p@ftn\noexpand\LTRfootnotetext[\the\csname c@\mpfn\endcsname]}}%
8571 \global\bidipoem@p@ftn\expandafter{\@temp{xii{#1}}}%
8572 \long\def\bidipoem@p@RTLftntext#1{%
8573 \edef\@temp{xii{\the\bidipoem@p@ftn\noexpand\RTLfootnotetext[\the\csname c@\mpfn\endcsname]}}%
8574 \global\bidipoem@p@ftn\expandafter{\@temp{xii{#1}}}%
8575
8576 \long\def\bidipoem@p@xftntext[#1]#2{%

```



```

8577 \global\bidipoem@p@ftn\expandafter{\the\bidipoem@p@ftn\footnotetext[#1]{#2}}
8578
8579 \long\def\bidipoem@p@xLTRftntext[#1]#2{%
8580 \global\bidipoem@p@ftn\expandafter{\the\bidipoem@p@ftn\LTRfootnotetext[#1]{#2}}}
8581
8582 \long\def\bidipoem@p@xRTLftntext[#1]#2{%
8583 \global\bidipoem@p@ftn\expandafter{\the\bidipoem@p@ftn\RTLfootnotetext[#1]{#2}}}
8584
8585 \def\bidipoem@p@xfootnote[#1]{%
8586 \begingroup
8587 \csname c@\@mpfn\endcsname #1\relax
8588 \unrestored@protected@xdef\@thefnmark{\thempfn}%
8589 \endgroup
8590 \@footnotemark\bidipoem@p@xftntext[#1]}
8591
8592 \def\bidipoem@p@xLTRfootnote[#1]{%
8593 \begingroup
8594 \csname c@\@mpfn\endcsname #1\relax
8595 \unrestored@protected@xdef\@thefnmark{\thempfn}%
8596 \endgroup
8597 \@footnotemark\bidipoem@p@xLTRftntext[#1]}
8598
8599 \def\bidipoem@p@xRTLfootnote[#1]{%
8600 \begingroup
8601 \csname c@\@mpfn\endcsname #1\relax
8602 \unrestored@protected@xdef\@thefnmark{\thempfn}%
8603 \endgroup
8604 \@footnotemark\bidipoem@p@xRTLftntext[#1]}
8605
8606
8607
8608 \newenvironment{traditionalpoem}{\@traditionalpoem}{\@endtraditionalpoem}
8609 \expandafter\def\csname traditionalpoem*\endcsname{\let\poem@obeylines=\traditionalpoem@obey
8610 \expandafter\def\csname endtraditionalpoem*\endcsname{\endtraditionalpoem}
8611 \def\poem@finish{%
8612 \poem@write@aux{max@poem@no}{\number\c@poem@no}%
8613 \ifx\poem@needrun\relax
8614 \PackageWarning{bidipoem}{Unjustified poem. Rerun XeLaTeX to get poem right}%
8615 \global\let\poem@needrun\undefined
8616 \fi
8617 }
8618 \ifx\AtEndDocument\undefined\else\AtEndDocument\poem@finish\fi
8619 \newcounter{poem@no}\setcounter{poem@no}{\z@}
8620 \ifx\max@poem@no\undefined
8621 \def\max@poem@no{0}%
8622 \fi
8623 \newcommand{\poem@prop}[1]{\@nameuse{#1@\romannumeral\c@poem@no}}
8624 \newcommand{\poem@write@aux}[2]{%
8625 \def\@x{\immediate\write\@auxout{\global\noexpand\@namedef{#1}{#2}}}%
8626 \@x
8627 }
8628 \def\@modernpoem{%
8629 \par
8630 \begingroup

```



```

8631 \parskip=\z@
8632 \parindent=\z@
8633 \def\[\{\@settab\@tabplus\ignorespaces}%
8634 \def\]\{\@tabminus\ignorespaces}%
8635 \def\newblock{\poemblocksep}%
8636 \let\newpoem@tabcr\@tabcr
8637 \def\modernpoem@par{% Redefine \par for possible \obeylines
8638   \ifpoem@started\else
8639     \ifdim\wd\@curline>\z@\global\poem@startedtrue\else
8640       \@stopfield
8641       \ifdim\wd\@curfield>\z@\global\poem@startedtrue\fi
8642       \@contfield
8643     \fi
8644   \fi
8645   \ifpoem@started\newpoem@tabcr\fi}%
8646 \def\@tabcr{\global\poem@startedtrue\newpoem@tabcr}%
8647 \global\poem@startedfalse
8648 \csname poem@obeylines\endcsname
8649 \let\poem@obeylines\relax
8650 \begin{tabbing}%
8651 }
8652 \def\@endmodernpoem{%
8653 \global\poem@startedfalse
8654 \ifdim\wd\@curline>\z@\global\poem@startedtrue\else
8655   \@stopfield
8656   \ifdim\wd\@curfield>\z@\global\poem@startedtrue\fi
8657   \@contfield
8658 \fi
8659 \ifpoem@started\else\let\@stopline\@stopfield\fi
8660 \end{tabbing}%
8661 \endgroup
8662 \par
8663 \if@nparlist \else
8664   \ifdim\lastskip >\z@
8665     \@tempskipa\lastskip \vskip -\lastskip
8666     \advance\@tempskipa\parskip \advance\@tempskipa -\@outerparskip
8667     \vskip\@tempskipa
8668   \fi
8669   \@endparenv
8670 \fi
8671 }
8672 \newenvironment{modernpoem}{\@modernpoem}{\@endmodernpoem}
8673 \expandafter\def\csname modernpoem*\endcsname{\let\poem@obeylines=\modernpoem@obeylines\mode
8674 \expandafter\def\csname endmodernpoem*\endcsname{\endmodernpoem}
8675 \gdef\@startfield{%
8676 \global\setbox\@curfield\hbox\bgroup%
8677 \let\@footnotetext\bidipoem@p@ftntext%
8678 \let\@LTRfootnotetext\bidipoem@p@LTRftntext%
8679 \let\@RTLfootnotetext\bidipoem@p@RTLftntext%
8680 \let\@xfootnotenext\bidipoem@p@xftntext%
8681 \let\@xfootnote\bidipoem@p@xfootnote%
8682 \let\@xLTRfootnotenext\bidipoem@p@xLTRftntext%
8683 \let\@xLTRfootnote\bidipoem@p@xLTRfootnote%
8684 \let\@xRTLfootnotenext\bidipoem@p@xRTLftntext%

```



```

8685 \let\@xRTLfootnote\bidipoem@p@xRTLfootnote%
8686 \color@begingroup}
8687 \gdef\@stopfield{%
8688   \color@endgroup\egroup\global\bidipoem@p@ftn\expandafter{\expandafter}\the\bidipoem@p@ftn}
8689 \gdef\@contfield{%
8690 \global\setbox\@curfield\hbox\bgroup%
8691 \let\@footnotetext\bidipoem@p@ftntext%
8692 \let\@LTRfootnotetext\bidipoem@p@LTRftntext%
8693 \let\@RTLfootnotetext\bidipoem@p@RTLftntext%
8694 \let\@xfootnotenext\bidipoem@p@xftntext%
8695 \let\@xfootnote\bidipoem@p@xfootnote%
8696 \let\@xLTRfootnotenext\bidipoem@p@xLTRftntext%
8697 \let\@xLTRfootnote\bidipoem@p@xLTRfootnote%
8698 \let\@xRTLfootnotenext\bidipoem@p@xRTLftntext%
8699 \let\@xRTLfootnote\bidipoem@p@xRTLfootnote%
8700 \color@begingroup\unhbox\@curfield}

```

## 59 File boek3-xetex-bidi.def

```

8701 \ProvidesFile{boek3-xetex-bidi.def}[2017/06/09 v0.4 bidi adaptations for boek3 class for XeT
8702 \renewenvironment{theindex}{%
8703   \if@twocolumn
8704     \@restonecolfalse
8705   \else
8706     \@restonecoltrue
8707   \fi
8708   \columnseprule \z@
8709   \columnsep 35\p@
8710   \twocolumn[\@makeschapterhead{\indexname}]%
8711   \@mkboth{\MakeUppercase{\indexname}}{\MakeUppercase{\indexname}}}%
8712   \thispagestyle{plain}\parindent\z@
8713   \parskip\z@ \@plus .3\p@\relax
8714   \let\item\@idxitem
8715 }{%
8716   \if@restonecol\onecolumn\else\clearpage\fi}
8717 \renewcommand*\head@style{%
8718   \interlinepenalty \@M
8719   \hyphenpenalty=\@M \exhyphenpenalty=\@M
8720   \if@RTL\leftskip\else\rightskip\fi=0cm plus .7\hsize\relax}
8721 \renewcommand*\@regtocline[3]{%
8722   \ifnum #1>\c@tocdepth
8723   \else
8724     \vskip\z@\@plus.2\p@
8725     {\hangindent\z@ \@afterindenttrue \interlinepenalty\@M
8726       \if@RTL\rightskip\else\leftskip\fi\unitindent
8727       \if@RTL\leftskip\else\rightskip\fi\unitindent\@plus 1fil
8728       \parfillskip\z@
8729       \@tempdima\unitindent
8730       \parindent\z@
8731       \leavevmode
8732       \hbox{}\hskip -\if@RTL\rightskip\else\leftskip\fi\relax#2\nobreak
8733       \hskip 1em \nobreak{\slshape #3}\par
8734     }%
8735   \fi}

```



```

8736 \if@oldtoc
8737 \renewcommand*\l@part[2]{%
8738   \ifnum \c@tocdepth >-2\relax
8739     \addpenalty{-\@highpenalty}%
8740     \addvspace{2.25em \@plus\p@}%
8741     \begingroup
8742       \setlength\@tempdima{3em}%
8743       \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
8744       \parfillskip -\@pnumwidth
8745       {\leavevmode
8746         \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
8747       \nobreak
8748       \global\@nobreaktrue
8749       \everypar{\global\@nobreakfalse\everypar{}}%
8750     \endgroup
8751   \fi}
8752 \else
8753   \renewcommand*\l@part{%
8754     \ifnum \c@tocdepth >-2\relax
8755       \addpenalty{-\@highpenalty}%
8756       \addvspace{2.25em \@plus \p@}%
8757       \@regtocline{0}%
8758     \fi}
8759 \fi
8760 \if@oldtoc
8761 \renewcommand*\l@chapter[2]{%
8762   \addpenalty{-\@highpenalty}%
8763   \vskip 1.0em \@plus\p@
8764   \setlength\@tempdima{1.5em}%
8765   \begingroup
8766   \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
8767   \parfillskip -\@pnumwidth
8768   \leavevmode \bfseries
8769   \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
8770   \hskip -\if@RTL\rightskip\else\leftskip\fi
8771   #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
8772   \penalty\@highpenalty
8773   \endgroup}
8774 \else
8775   \renewcommand*\l@chapter{\@regtocline{0}}
8776 \fi
8777 \renewenvironment{abstract}{%
8778   \titlepage
8779   \null\vfil
8780   \section*{\SectFont \abstractname}
8781   \noindent\ignorespaces}
8782   {\par\vfil\null\endtitlepage}
8783 \renewenvironment{thebibliography}[1]
8784   {\chapter*{\bibname}%
8785    \mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}%
8786    \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
8787    \bidi@thebibliography@font@hook%
8788    \list{\@biblabel{\@arabic{c@enumiv}}}%
8789    {\settowidth\labelwidth{\@biblabel{#1}}%

```



```

8790         \leftmargin\labelwidth
8791         \advance\leftmargin\labelsep
8792         \@openbib@code
8793         \usecounter{enumiv}%
8794         \let\p@enumiv\@empty
8795         \renewcommand*\theenumiv{\@arabic\c@enumiv}}%
8796     \sloppy\clubpenalty4000\widowpenalty4000%
8797     \sfcode`\.\@m}
8798     {\def\@noitemerr
8799     {\@latex@warning{Empty `thebibliography' environment}}}%
8800     \endlist}
8801 \renewcommand*\left@footnoterule{%
8802     \kern-3\p@
8803     \kern.5\baselineskip
8804     \hrule\@width\unitindent
8805     \kern.4\baselineskip
8806 }
8807 \renewcommand*\right@footnoterule{%
8808     \kern-3\p@
8809     \kern.5\baselineskip
8810     \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\unitindent\relax \hrulefill }
8811     \kern.4\baselineskip}
8812 \renewcommand*\thesection{\thechapter\@SepMark\@arabic\c@section}
8813 \renewcommand*\thesubsection{\thesection\@SepMark\@arabic\c@subsection}
8814 \renewcommand*\thesubsubsection{\thesubsection\@SepMark\@arabic\c@subsubsection}
8815 \renewcommand*\theparagraph{\thesubsubsection\@SepMark\@arabic\c@paragraph}
8816 \renewcommand*\thesubparagraph{\theparagraph\@SepMark\@arabic\c@subparagraph}
8817 \renewcommand*\theequation{%
8818     \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@equation}
8819 \renewcommand*\thefigure{%
8820     \ifnum \c@chapter>\z@\thechapter\@SepMark\fi\@arabic\c@figure}
8821 \renewcommand*\thetable{%
8822     \ifnum \c@chapter>\z@\thechapter\@SepMark\fi\@arabic\c@table}
8823 \renewcommand*\maketitle{%
8824     \begin{titlepage}%
8825         \let\footnotesize\small
8826         \let\right@footnoterule\relax
8827         \let\left@footnoterule\relax
8828         \let\textwidth\footnoterule\relax
8829         \let \footnote \thanks
8830         \long\def\@makefntext##1{\parindent\z@
8831             \def\labelitemi{\textendash}\@revlabeltrue
8832             \leavevmode\@textsuperscript{\@thefnmark}\kern1em\relax ##1}
8833         \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
8834         \ifcompatibility\setcounter{page}{0}\fi
8835         \null\vfil
8836         \vskip 60\p@
8837         \begin{center}%
8838             \TitleFont
8839             {\LARGE \def\\{\penalty -\@M}
8840             \if@allcaps
8841                 \expandafter\uc@nothanks\@title\thanks\relax
8842             \else
8843                 \@title

```



```

8844     \fi\par}%
8845     \vskip 3em%
8846     {\large
8847       \lineskip .75em \parindent\z@
8848       \begin{tabular}[t]{c}%
8849         \if@allcaps
8850           \expandafter\uc@authornothanks\@author\and\relax
8851         \else
8852           \@author
8853         \fi
8854       \end{tabular}\par}%
8855     \vskip 1.5em%
8856     {\large
8857       \if@allcaps
8858         \uppercase\expandafter{\@date}%
8859       \else
8860         \@date
8861       \fi\par}%
8862     \end{center}\par
8863     \@thanks
8864     \vfil\null
8865 \end{titlepage}%
8866 \setcounter{footnote}{0}%
8867 \global\let\thanks\relax
8868 \global\let\maketitle\relax
8869 \global\let\@thanks\@empty
8870 \global\let\@author\@empty
8871 \global\let\@title\@empty
8872 \global\let\@date\@empty
8873 \global\let\title\relax
8874 \global\let\author\relax
8875 \global\let\date\relax
8876 \global\let\and\relax
8877 }

```

## 60 File boek-xetex-bidi.def

```

8878 \ProvidesFile{boek-xetex-bidi.def}[2017/06/09 v0.4 bidi adaptations for boek class for XeTeX]
8879 \renewenvironment{theindex}{%
8880   \if@twocolumn
8881     \@restonecolfalse
8882   \else
8883     \@restonecoltrue
8884   \fi
8885   \columnseprule \z@
8886   \columnsep 35\p@
8887   \twocolumn[\@makeschapterhead{\indexname}]%
8888   \@mkboth{\MakeUppercase{\indexname}}{\MakeUppercase{\indexname}}%
8889   \thispagestyle{plain}\parindent\z@
8890   \parskip\z@ \@plus .3\p@\relax
8891   \let\item\@idxitem
8892 }{%
8893   \if@restonecol\onecolumn\else\clearpage\fi}
8894 \renewcommand*\head@style{%

```



```

8895 \interlinepenalty \@M
8896 \hyphenpenalty=\@M \exhyphenpenalty=\@M
8897 \if@RTL\leftskip\else\rightskip\fi=0cm plus .7\hsize\relax}
8898 \renewcommand*\@regtocline[3]{%
8899 \ifnum #1>\c@tocdepth
8900 \else
8901 \vskip\z@\@plus.2\p@
8902 {\hangindent\z@ \@afterindenttrue \interlinepenalty\@M
8903 \if@RTL\rightskip\else\leftskip\fi\unitindent
8904 \if@RTL\leftskip\else\rightskip\fi\unitindent\@plus 1fil
8905 \parfillskip\z@
8906 \@tempdima\unitindent
8907 \parindent\z@
8908 \leavevmode
8909 \hbox{}\hskip -\if@RTL\rightskip\else\leftskip\fi\relax#2\nobreak
8910 \hskip 1em \nobreak{\slshape #3}\par
8911 }%
8912 \fi}
8913 \if@oldtoc
8914 \renewcommand*\l@part[2]{%
8915 \ifnum \c@tocdepth >-2\relax
8916 \addpenalty{-\@highpenalty}%
8917 \addvspace{2.25em \@plus\p@}%
8918 \begingroup
8919 \setlength\@tempdima{3em}%
8920 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
8921 \parfillskip -\@pnumwidth
8922 {\leavevmode
8923 \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
8924 \nobreak
8925 \global\@nobreaktrue
8926 \everypar{\global\@nobreakfalse\everypar{}}%
8927 \endgroup
8928 \fi}
8929 \else
8930 \renewcommand*\l@part{%
8931 \ifnum \c@tocdepth >-2\relax
8932 \addpenalty{-\@highpenalty}%
8933 \addvspace{2.25em \@plus \p@}%
8934 \@regtocline{0}%
8935 \fi}
8936 \fi
8937 \if@oldtoc
8938 \renewcommand*\l@chapter[2]{%
8939 \addpenalty{-\@highpenalty}%
8940 \vskip 1.0em \@plus\p@
8941 \setlength\@tempdima{1.5em}%
8942 \begingroup
8943 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
8944 \parfillskip -\@pnumwidth
8945 \leavevmode \bfseries
8946 \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
8947 \hskip -\if@RTL\rightskip\else\leftskip\fi
8948 #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par

```



```

8949 \penalty\@highpenalty
8950 \endgroup}
8951 \else
8952 \renewcommand*\l@chapter{\@regtocline{0}}
8953 \fi
8954 \renewcommand*\left@footnoterule{%
8955 \kern-3\p@
8956 \kern.5\baselineskip
8957 \hrule\@width\unitindent
8958 \kern.4\baselineskip
8959 }
8960 \renewcommand*\right@footnoterule{%
8961 \kern-3\p@
8962 \kern.5\baselineskip
8963 \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\unitindent\relax \hrulefill }
8964 \kern.4\baselineskip}
8965 \renewenvironment{abstract}{\%
8966 \titlepage
8967 \null\vfil
8968 \section*\SectFont \abstractname}
8969 \noindent\ignorespaces}
8970 {\par\vfil\null\endtitlepage}
8971 \renewenvironment{thebibliography}[1]
8972 {\chapter*\bibname}%
8973 \@mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}%
8974 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
8975 \bidi@thebibliography@font@hook%
8976 \list{\@biblabel{\@arabic\c@enumiv}}{%
8977 {\settowidth\labelwidth{\@biblabel{#1}}%
8978 \leftmargin\labelwidth
8979 \advance\leftmargin\labelsep
8980 \@openbib@code
8981 \usecounter{enumiv}%
8982 \let\p@enumiv\@empty
8983 \renewcommand*\theenumiv{\@arabic\c@enumiv}}%
8984 \sloppy\clubpenalty4000\widowpenalty4000%
8985 \sfcode\.\@m}
8986 {\def\@noitemerr
8987 {\@latex@warning{Empty `thebibliography' environment}}}%
8988 \endlist}
8989 \renewcommand*\thesection{\thechapter\@SepMark\@arabic\c@section}
8990 \renewcommand*\thesubsection{\thesection\@SepMark\@arabic\c@subsection}
8991 \renewcommand*\thesubsubsection{\thesubsection\@SepMark\@arabic\c@subsubsection}
8992 \renewcommand*\theparagraph{\thesubsubsection\@SepMark\@arabic\c@paragraph}
8993 \renewcommand*\thesubparagraph{\theparagraph\@SepMark\@arabic\c@subparagraph}
8994 \renewcommand*\theequation{%
8995 \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@equation}
8996 \renewcommand*\thefigure{%
8997 \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@figure}
8998 \renewcommand*\thetable{%
8999 \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@table}
9000 \renewcommand*\maketitle{%
9001 \begin{titlepage}%
9002 \let\footnotesize\small

```



```

9003 \let\right@footnoterule\relax
9004 \let\left@footnoterule\relax
9005 \let\textwidth@footnoterule\relax
9006 \let \footnote \thanks
9007 \long\def\@makefntext##1{\parindent\z@
9008 \def\labelitemi{\textendash}\@revlabeltrue
9009 \leavevmode\@textsuperscript{\@thefnmark}\kern1em\relax ##1}
9010 \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
9011 \if@compatibility\setcounter{page}{0}\fi
9012 \null\vfil
9013 \vskip 60\p@
9014 \begin{center}%
9015 \TitleFont
9016 {\LARGE \def\\{\penalty -\@M}
9017 \if@allcaps
9018 \expandafter\uc@nothanks\@title\thanks\relax
9019 \else
9020 \@title
9021 \fi\par}%
9022 \vskip 3em%
9023 {\large
9024 \lineskip .75em \parindent\z@
9025 \begin{tabular}[t]{c}%
9026 \if@allcaps
9027 \expandafter\uc@authornothanks\@author\and\relax
9028 \else
9029 \@author
9030 \fi
9031 \end{tabular}\par}%
9032 \vskip 1.5em%
9033 {\large
9034 \if@allcaps
9035 \uppercase\expandafter{\@date}%
9036 \else
9037 \@date
9038 \fi\par}%
9039 \end{center}\par
9040 \@thanks
9041 \vfil\null
9042 \end{titlepage}%
9043 \setcounter{footnote}{0}%
9044 \global\let\thanks\relax
9045 \global\let\maketitle\relax
9046 \global\let\@thanks\@empty
9047 \global\let\@author\@empty
9048 \global\let\@title\@empty
9049 \global\let\@date\@empty
9050 \global\let\title\relax
9051 \global\let\author\relax
9052 \global\let\date\relax
9053 \global\let\and\relax
9054 }

```



## 61 File `bookest-xetex-bidi.def`

```
9055 \ProvidesFile{bookest-xetex-bidi.def}[2010/07/25 v0.4 bidi adaptations for bookest class for
9056 \def\@makechapterhead#1{%
9057   \vspace*{20\p@}
9058   {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi \normalfont
9059     \ifnum \c@secnumdepth >\m@ne
9060       \if@mainmatter
9061         {\colorA\huge\scshape \@chapapp\space \thechapter}
9062         \par\nobreak
9063         \vskip 10\p@
9064       \fi
9065     \fi
9066     \interlinepenalty\@M
9067   {\colorB\hrule}
9068   \vskip 15\p@
9069   \if@RTL\begin{flushleft}\else\begin{flushright}\fi
9070     {\colorA\Huge \bfseries #1}\par\nobreak
9071   \if@RTL\end{flushleft}\else\end{flushright}\fi
9072   \vskip 5\p@
9073   {\colorB\hrule}
9074   \vskip 30\p@
9075   }}
9076 \def\@makeschapterhead#1{%
9077   \vspace*{20\p@}
9078   {\parindent \z@ \raggedright \normalfont
9079     {\colorB\hrule}
9080     \vskip 15\p@
9081     \begin{center}
9082       {\colorA\Huge \bfseries #1}\par\nobreak
9083     \end{center}
9084     \vskip 5\p@
9085     {\colorB\hrule}
9086     \vskip 30\p@
9087   }}
```

## 62 File `book-xetex-bidi.def`

```
9088 \ProvidesFile{book-xetex-bidi.def}[2017/06/09 v1.0 bidi adaptations for standard book class
9089 \renewenvironment{theindex}
9090   {\if@twocolumn
9091     \@restonecolfalse
9092   \else
9093     \@restonecoltrue
9094   \fi
9095   \columnseprule \z@
9096   \columnsep 35\p@
9097   \twocolumn[\@makeschapterhead{\indexname}]%
9098   \@mkboth{\MakeUppercase\indexname}%
9099     {\MakeUppercase\indexname}%
9100   \thispagestyle{plain}\parindent\z@
9101   \parskip\z@ \@plus .3\p@\relax
9102   \let\item\@idxitem}
9103   {\if@restonecol\onecolumn\else\clearpage\fi}
```



```

9104 \@ifclassloaded{bookest}{}{%
9105   \if@titlepage
9106     \renewcommand\maketitle{\begin{titlepage}%
9107       \let\footnotesize\small
9108       \let\right@footnoterule\relax
9109       \let\left@footnoterule\relax
9110       \let\textwidth@footnoterule\relax
9111       \let \footnote \thanks
9112       \let \LTRfootnote \LTRthanks
9113       \let \RTLfootnote \RTLthanks
9114       \null\vfil
9115       \vskip 60\p@
9116       \begin{center}%
9117         {\LARGE \@title \par}%
9118         \vskip 3em%
9119         {\large
9120           \lineskip .75em%
9121           \begin{tabular}[t]{c}%
9122             \@author
9123           \end{tabular}\par}%
9124         \vskip 1.5em%
9125         {\large \@date \par}%           % Set date in \large size.
9126       \end{center}\par
9127       \@thanks
9128       \vfil\null
9129     \end{titlepage}%
9130     \setcounter{footnote}{0}%
9131     \global\let\thanks\relax
9132     \global\let\LTRthanks\relax
9133     \global\let\RTLthanks\relax
9134     \global\let\maketitle\relax
9135     \global\let\@thanks\@empty
9136     \global\let\@author\@empty
9137     \global\let\@date\@empty
9138     \global\let\@title\@empty
9139     \global\let\title\relax
9140     \global\let\author\relax
9141     \global\let\date\relax
9142     \global\let\and\relax
9143   }
9144 \else
9145 \renewcommand\maketitle{\par
9146   \begingroup
9147     \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
9148     \def\@makefnmark{\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
9149     \long\def\@makefntext##1{\parindent 1em\noindent
9150       \hb@xt@1.8em{%
9151         \hss\@textsuperscript{\normalfont\@thefnmark}}##1}%
9152     \if@twocolumn
9153       \ifnum \col@number=\@ne
9154         \@maketitle
9155       \else
9156         \twocolumn[\@maketitle]%
9157       \fi

```



```

9158 \else
9159 \newpage
9160 \global\let\topnum\z@ % Prevents figures from going at top of page.
9161 \@maketitle
9162 \fi
9163 \thispagestyle{plain}\@thanks
9164 \endgroup
9165 \setcounter{footnote}{0}%
9166 \global\let\thanks\relax
9167 \global\let\LTRthanks\relax
9168 \global\let\RTLthanks\relax
9169 \global\let\maketitle\relax
9170 \global\let\@maketitle\relax
9171 \global\let\@thanks\@empty
9172 \global\let\@author\@empty
9173 \global\let\@date\@empty
9174 \global\let\@title\@empty
9175 \global\let\title\relax
9176 \global\let\author\relax
9177 \global\let\date\relax
9178 \global\let\and\relax
9179 }
9180 \def\@maketitle{%
9181 \newpage
9182 \null
9183 \vskip 2em%
9184 \begin{center}%
9185 \let \footnote \thanks
9186 \let \LTRfootnote \LTRthanks
9187 \let \RTLfootnote \RTLthanks
9188 {\LARGE \@title \par}%
9189 \vskip 1.5em%
9190 {\large
9191 \lineskip .5em%
9192 \begin{tabular}[t]{c}%
9193 \@author
9194 \end{tabular}\par}%
9195 \vskip 1em%
9196 {\large \@date}%
9197 \end{center}%
9198 \par
9199 \vskip 1.5em}
9200 \fi}
9201 \renewcommand*\l@part[2]{%
9202 \ifnum \c@tocdepth >-2\relax
9203 \addpenalty{-\@highpenalty}%
9204 \addvspace{2.25em \@plus\p}%
9205 \setlength\@tempdima{3em}%
9206 \begin{group
9207 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
9208 \parfillskip -\@pnumwidth
9209 {\leavevmode
9210 \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
9211 \nobreak

```



```

9212         \global\@nbreaktrue
9213         \everypar{\global\@nbreakfalse\everypar{}}}%
9214     \endgroup
9215 \fi}
9216 \renewcommand*\l@chapter[2]{%
9217     \ifnum \c@tocdepth >\m@ne
9218         \addpenalty{-\@highpenalty}%
9219         \vskip 1.0em \@plus\p@
9220         \setlength\@tempdima{1.5em}%
9221         \begingroup
9222             \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
9223             \parfillskip -\@pnumwidth
9224             \leavevmode \bfseries
9225             \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
9226             \hskip -\if@RTL\rightskip\else\leftskip\fi
9227             #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
9228             \penalty\@highpenalty
9229         \endgroup
9230 \fi}
9231 \renewcommand\left@footnoterule{%
9232     \kern-3\p@
9233     \hrule\@width.4\columnwidth
9234     \kern2.6\p@}
9235 \renewcommand\right@footnoterule{%
9236     \kern-3\p@
9237     \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
9238     \kern2.6\p@}
9239 \renewcommand\theequation
9240     {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@equation}
9241 \renewcommand \thefigure
9242     {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@figure}
9243 \renewcommand \thetable
9244     {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@table}
9245 \renewcommand \thechapter {\@arabic\c@chapter}
9246 \renewcommand \thesection {\thechapter\@SepMark\@arabic\c@section}
9247 \renewcommand \thesubsection {\thesection\@SepMark\@arabic\c@subsection}
9248 \renewcommand \thesubsubsection {\thesubsection \@SepMark\@arabic\c@subsubsection}
9249 \renewcommand \theparagraph {\thesubsubsection \@SepMark\@arabic\c@paragraph}
9250 \renewcommand \thesubparagraph {\theparagraph \@SepMark\@arabic\c@subparagraph}
9251 \def\@makechapterhead#1{%
9252     \vspace*{50\p@}%
9253     {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi \normalfont
9254         \ifnum \c@secnumdepth >\m@ne
9255             \if@mainmatter
9256                 \huge\bfseries \chapapp\space \thechapter
9257                 \par\nobreak
9258                 \vskip 20\p@
9259             \fi
9260         \fi
9261         \interlinepenalty\@M
9262         \Huge \bfseries #1\par\nobreak
9263         \vskip 40\p@
9264     }}
9265 \def\@makeschapterhead#1{%

```



```

9266 \vspace*{50\p@}%
9267 {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi
9268 \normalfont
9269 \interlinepenalty\@M
9270 \Huge \bfseries #1\par\nobreak
9271 \vskip 40\p@
9272 }}
9273 \renewcommand\backmatter{%
9274 \if@openright
9275 \cleardoublepage
9276 \else
9277 \clearpage
9278 \fi
9279 \@mainmatterfalse}
9280 \renewenvironment{thebibliography}[1]
9281 {\chapter*{\bibname}%
9282 \@mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}%
9283 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
9284 \bidi@thebibliography@font@hook%
9285 \list{\@biblabel{\@arabic\c@enumiv}}%
9286 {\settowidth\labelwidth{\@biblabel{#1}}%
9287 \leftmargin\labelwidth
9288 \advance\leftmargin\labelsep
9289 \@openbib@code
9290 \usecounter{enumiv}%
9291 \let\p@enumiv\@empty
9292 \renewcommand\theenumiv{\@arabic\c@enumiv}}%
9293 \sloppy
9294 \clubpenalty4000
9295 \@clubpenalty \clubpenalty
9296 \widowpenalty4000%
9297 \sfcode`. \@m}
9298 {\def\@noitemerr
9299 {\@latex@warning{Empty `thebibliography' environment}}}%
9300 \endlist}

```

## 63 File breqn-xetex-bidi.def

```

9301 \ProvidesFile{breqn-xetex-bidi.def}[2016/09/12 v0.2 bidi adaptations for breqn package for X
9302 \def\@dmath[#1]{\if@RTL\@RTLfalse\fi%
9303 \everydisplay\expandafter{\the\everydisplay \display@setup}%
9304 \if@noskipsec \leavevmode \fi
9305 \if@inlabel \leavevmode \global\@inlabelfalse \fi
9306 \if\eq@group\else\eq@prelim\fi
9307 \setkeys{breqn}{#1}%
9308 \the\eqstyle
9309 \eq@setnumber
9310 \begin@group
9311 \eq@setup@a
9312 \eq@startup
9313 }
9314 \def\@dgroup[#1]{\if@RTL\@RTLfalse\fi%
9315 \let\eq@group\@True \global\let\eq@GRP@first@dmath\@True
9316 \global\GRP@queue\@emptytoks \global\setbox\GRP@box\box\voidb@x

```



```

9317 \global\let\GRP@label\@empty
9318 \global\grp@wdL\z@\global\grp@wdR\z@\global\grp@wdT\z@
9319 \global\grp@linewidth\z@\global\grp@wdNum\z@
9320 \global\let\grp@eqs@numbered\@False
9321 \global\let\grp@aligned\@True
9322 \global\let\grp@shiftnumber\@False
9323 \eq@prelim
9324 \setkeys{breqn}{#1}%
9325 \if\grp@hasNumber \grp@setnumber \fi
9326 }
9327 \def\@dseries[#1]{\if@RTL\@RTLfalse\fi%
9328 \let\display@setup\dseries@display@setup
9329 % Question: should this be the default for dseries???
9330 \global\eq@wdCond\z@
9331 \@dmath[layout={M},#1]%
9332 \mathsurround\z@\@math \penalty\@Mi
9333 \let\endmath\ends@math
9334 \def\premath{%
9335 \ifdim\lastskip<.3em \unskip
9336 \else\ifnum\lastpenalty<\@M \dquad\fi\fi
9337 }%
9338 \def\postmath{\unpenalty\eq@addpunct \penalty\intermath@penalty \dquad \@ignoretrue}%
9339 \ignorespaces
9340 }
9341 \def\eqnumform#1{\if@nonlatin\beginR\@RTLtrue\fi(#1\@@italiccorr)\if@nonlatin\endR\fi}
9342 \renewenvironment{dsuspend}{%
9343 \global\setbox\EQ@box\vbox\bgroup\if@nonlatin\@RTLtrue\fi \@parboxrestore
9344 \parshape 1 \displayindent \displaywidth\relax
9345 \hsize=\columnwidth \noindent\ignorespaces
9346 }{%
9347 \par\egroup
9348 \global\setbox\GRP@box\vbox{%
9349 \hbox{\copy\EQ@box\topof\unvbox\EQ@box}}%
9350 \unvbox\GRP@box
9351 }%
9352 \global\GRP@queue\@xp{\the\GRP@queue
9353 \@elt{\let\eq@isIntertext\@True}}%
9354 }%
9355 }

```

## 64 File cals-xetex-bidi.def

```

9356 \ProvidesFile{cals-xetex-bidi.def}[2016/11/30 v0.4 bidi adaptations for cals package for XeT
9357 \renewcommand\cals@setup@alignment[1]{%
9358 \if c#1\relax \cals@vfillAdd \leftskip \cals@vfillAdd \rightskip \fi
9359 \if l#1\relax \cals@vfillDrop\leftskip \cals@vfillDrop\rightskip \fi
9360 \if r#1\relax \cals@vfillAdd \leftskip \cals@vfillDrop\rightskip \fi
9361 }
9362 \renewcommand\cals@table@alignment{\if@RTLtab r\else l\fi}
9363 \renewenvironment{calstable}[1][\cals@table@alignment]{%
9364 \if@RTLtab\cals@activate@rtl\fi
9365 \let\cals@thead@tokens=\relax
9366 \let\cals@tfoot@tokens=\relax
9367 \let\cals@tbody@tokens=\relax

```



```

9368 \cals@tfoot@height=0pt \relax
9369 \let\cals@last@context=n%
9370 \let\cals@current@context=b%
9371 \parindent=0pt \relax%
9372 \cals@setup@alignment{#1}%
9373 \cals@setpadding{Ag}\cals@setcellprevdepth{Al}\cals@set@tohsize%
9374 %% Alignment inside is independent on center/flushright outside
9375 \parfillskip=0pt plus1fil\relax
9376 \let\cals@borderL=\relax
9377 \let\cals@borderR=\relax
9378 \let\cals@borderT=\relax
9379 \let\cals@borderB=\relax
9380 \setbox\cals@backup@row=\box\voidb@x\relax
9381 \cals@AtBeginTable
9382 }{% End of the table
9383 \cals@tfoot@tokens\lastrule\cals@AtEndTable}
9384 \renewcommand\alignL{%
9385 \if@RTLtab
9386 \cals@vfillAdd\cals@paddingL
9387 \else
9388 \cals@vfillDrop\cals@paddingL
9389 \fi
9390 \cals@vfillDrop\cals@paddingR}
9391 \renewcommand\alignR{%
9392 \if@RTLtab
9393 \cals@vfillDrop\cals@paddingL
9394 \else
9395 \cals@vfillAdd\cals@paddingL
9396 \fi
9397 \cals@vfillDrop\cals@paddingR}

```

## 65 File caption-xetex-bidi.def

```

9398 \ProvidesFile{caption-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for caption package f
9399 \let\makecaption\caption@makecaption

```

## 66 File caption3-xetex-bidi.def

```

9400 \ProvidesFile{caption3-xetex-bidi.def}[2013/04/01 v0.1 bidi adaptations for caption3 package
9401 \renewcommand*\caption@par{%
9402 \parindent\caption@parindent\hangindent\if@RTL-\fi\caption@hangindent}%

```

## 67 File colortbl-xetex-bidi.def

```

9403 \ProvidesFile{colortbl-xetex-bidi.def}[2012/06/10 v0.2 bidi adaptations for colortbl package
9404 \def\CT@setup{%
9405 \@tempdimb\col@sep
9406 \@tempdimc\col@sep
9407 \def\CT@color{%
9408 \global\let\CT@do@color\CT@@do@color
9409 \bidicolor}}
9410 \def\@classz{\@classx
9411 \@tempcnta \count@
9412 \prepnext@tok

```



```

9413 \expandafter\CT@extract\the\toks\@tempcnta\columncolor!\@nil
9414 \@addtopreamble{\if@RTLtab\beginL\fi%
9415 \setbox\z@\hbox\bgroup\bgroup\if@RTLtab\beginR\fi
9416 \ifcase \@chnum
9417 \hskip\stretch{.5}\kern\z@
9418 \d@llarbegin
9419 \insert@column
9420 \d@llarend\hskip\stretch{.5}\or
9421 \d@llarbegin \insert@column \d@llarend \hfill \or
9422 \hfill\kern\z@ \d@llarbegin \insert@column \d@llarend \or
9423 $\vcenter
9424 \@startpbox{\@nextchar}\insert@column \@endpbox $\or
9425 \vtop \@startpbox{\@nextchar}\insert@column \@endpbox \or
9426 \vbox \@startpbox{\@nextchar}\insert@column \@endpbox
9427 \fi
9428 \if@RTLtab\endR\fi\egroup\egroup
9429 \begingroup
9430 \CT@setup
9431 \CT@column@color
9432 \CT@row@color
9433 \CT@cell@color
9434 \CT@do@color
9435 \endgroup
9436 \@tempdima\ht\z@
9437 \advance\@tempdima\minrowclearance
9438 \vrule\@height\@tempdima\@width\z@
9439 \unhbox\z@\if@RTLtab\endL\fi}%
9440 \prepnext@tok}

```

## 68 File color-xetex-bidi.def

```

9441 \ProvidesFile{color-xetex-bidi.def}[2013/04/08 v0.2 bidi adaptations for color package for X
9442 \long\def\color@b@x#1#2#3{%
9443 \leavevmode\ifmmode\else\if@RTL\beginL\fi\fi
9444 \setbox\z@\hbox{\kern\fbboxsep\set@color\if@RTL\beginR\fi#3\if@RTL\endR\fi}\kern\fbboxsep}%
9445 \dimen@ht\z@\advance\dimen@\fbboxsep\ht\z@\dimen@
9446 \dimen@dp\z@\advance\dimen@\fbboxsep\dp\z@\dimen@
9447 {\#1{\#2\color@block{\wd\z@}{\ht\z@}{\dp\z@}%
9448 \box\z@}}\ifmmode\else\if@RTL\endL\fi\fi}
9449 \def\normalcolor{\let\current@color\default@color\ifhmode\if@RTL\beginL\aftergroup\endR\fi\fi}
9450 \DeclareRobustCommand\color{%
9451 \ifhmode\if@RTL\beginL\aftergroup\endR\fi\fi\@ifnextchar[\@undeclaredcolor\@declaredcolor}%
9452 \def\@declaredcolor#1{%
9453 \@ifundefined{\string\color @#1}%
9454 {\c@lor@error{`#1'}}%
9455 {\expandafter\let\expandafter\current@color
9456 \csname\string\color @#1\endcsname
9457 \set@color}%
9458 \ifhmode\if@RTL\beginR\aftergroup\endL\fi\fi\ignorespaces}
9459 \def\@undeclaredcolor[#1]#2{%
9460 \@ifundefined{color@#1}%
9461 {\c@lor@error{model `#1'}}%
9462 {\csname color@#1\endcsname\current@color{#2}%
9463 \set@color}%

```



```

9464 \ifhmode\if@RTL\beginR\aftergroup\endL\fi\fi\ignorespaces}
9465 \DeclareRobustCommand\bidicolor{%
9466 \@ifnextchar[\@bidiundeclaredcolor\@bidideclaredcolor}
9467 \def\@bidiundeclaredcolor[#1]#2{%
9468 \@ifundefined{color@#1}%
9469 {\c@lor@error{model `#1'}}%
9470 {\csname color@#1\endcsname\current@color{#2}%
9471 \set@color}%
9472 \ignorespaces}
9473 \def\@bidideclaredcolor#1{%
9474 \@ifundefined{\string\color @#1}%
9475 {\c@lor@error{`#1'}}%
9476 {\expandafter\let\expandafter\current@color
9477 \csname\string\color @#1\endcsname
9478 \set@color}%
9479 \ignorespaces}
9480 \def\color@box#1#2{\color@b@x\relax{\bidicolor#1{#2}}}
9481 \def\color@fbox#1#2#3{%
9482 \color@b@x{\fboxsep\z@\bidicolor#1{#2}\fbox}{\bidicolor#1{#3}}}
9483 \def\color@setgroup{\begingroup\ifhmode\if@RTL\beginL\aftergroup\endR\fi\fi\set@color\ifhmod

```

## 69 File combine-xetex-bidi.def

```

9484 \ProvidesFile{combine-xetex-bidi.def}[2011/09/23 v0.1 bidi adaptations for combine class for
9485 \renewcommand{\c@ll@chapsecii}[2]{%
9486 \if@RTL\advance\rightskip\@tempdima\else\advance\leftskip\@tempdima\fi
9487 \if@RTL\hskip -\rightskip\else\hskip -\leftskip\fi
9488 #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
9489 }
9490 \renewcommand{\c@ll@chapseci}{%
9491 \setlength\@tempdima{0em}%
9492 \begingroup
9493 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
9494 \parfillskip -\@pnumwidth
9495 \leavevmode
9496 }
9497 \renewenvironment{tocindent}[1]{%
9498 \hangindent \if@RTL-\fi#1 \hangafter -100\relax}{%

```

## 70 File crop-xetex-bidi.def

```

9499 \ProvidesFile{crop-xetex-bidi.def}[2013/04/10 v0.2 bidi adaptations for crop package for XeT
9500 \renewcommand*\CROP@ulc{%
9501 \if@RTLmain%
9502 \begin{picture}(0,0)
9503 \unitlength\p@\thinline
9504 \put(-40,0){\circle{10}}
9505 \put(-30,-5){\line(0,1){10}}
9506 \put(-35,0){\line(1,0){30}}
9507 \put(-10,30){\circle{10}}
9508 \put(-5,30){\line(1,0){10}}
9509 \put(0,35){\line(0,-1){30}}
9510 \end{picture}%
9511 \else%

```



```

9512 \begin{picture}(0,0)
9513 \unitlength\p@\thinline
9514 \put(-30,0){\circle{10}}
9515 \put(-30,-5){\line(0,1){10}}
9516 \put(-35,0){\line(1,0){30}}
9517 \put(0,30){\circle{10}}
9518 \put(-5,30){\line(1,0){10}}
9519 \put(0,35){\line(0,-1){30}}
9520 \end{picture}%
9521 \fi%
9522 }
9523 \renewcommand*\CROP@urc{%
9524 \if@RTLmain%
9525 \begin{picture}(0,0)
9526 \unitlength\p@\thinline
9527 \put(20,0){\circle{10}}
9528 \put(30,-5){\line(0,1){10}}
9529 \put(35,0){\line(-1,0){30}}
9530 \put(-10,30){\circle{10}}
9531 \put(-5,30){\line(1,0){10}}
9532 \put(0,35){\line(0,-1){30}}
9533 \end{picture}%
9534 \else%
9535 \begin{picture}(0,0)
9536 \unitlength\p@\thinline
9537 \put(30,0){\circle{10}}
9538 \put(30,-5){\line(0,1){10}}
9539 \put(35,0){\line(-1,0){30}}
9540 \put(0,30){\circle{10}}
9541 \put(-5,30){\line(1,0){10}}
9542 \put(0,35){\line(0,-1){30}}
9543 \end{picture}%
9544 \fi%
9545 }
9546 \renewcommand*\CROP@llc{%
9547 \if@RTLmain%
9548 \begin{picture}(0,0)
9549 \unitlength\p@\thinline
9550 \put(-40,0){\circle{10}}
9551 \put(-30,-5){\line(0,1){10}}
9552 \put(-35,0){\line(1,0){30}}
9553 \put(-10,-30){\circle{10}}
9554 \put(-5,-30){\line(1,0){10}}
9555 \put(0,-35){\line(0,1){30}}
9556 \end{picture}%
9557 \else%
9558 \begin{picture}(0,0)
9559 \unitlength\p@\thinline
9560 \put(-30,0){\circle{10}}
9561 \put(-30,-5){\line(0,1){10}}
9562 \put(-35,0){\line(1,0){30}}
9563 \put(0,-30){\circle{10}}
9564 \put(-5,-30){\line(1,0){10}}
9565 \put(0,-35){\line(0,1){30}}

```



```

9566 \end{picture}%
9567 \fi%
9568 }
9569 \renewcommand*\CROP@lrc{%
9570 \if@RTLmain%
9571 \begin{picture}(0,0)
9572 \unitlength\p@\thinline
9573 \put(20,0){\circle{10}}
9574 \put(30,-5){\line(0,1){10}}
9575 \put(35,0){\line(-1,0){30}}
9576 \put(-10,-30){\circle{10}}
9577 \put(-5,-30){\line(1,0){10}}
9578 \put(0,-35){\line(0,1){30}}
9579 \end{picture}%
9580 \else%
9581 \begin{picture}(0,0)
9582 \unitlength\p@\thinline
9583 \put(30,0){\circle{10}}
9584 \put(30,-5){\line(0,1){10}}
9585 \put(35,0){\line(-1,0){30}}
9586 \put(0,-30){\circle{10}}
9587 \put(-5,-30){\line(1,0){10}}
9588 \put(0,-35){\line(0,1){30}}
9589 \end{picture}%
9590 \fi%
9591 }
9592 \ifpackagewith{crop}{cam}{%
9593 \CROP@execopt{cam}%
9594 }{}

```

## 71 File cutwin-xetex-bidi.def

```

9595 \ProvidesFile{cutwin-xetex-bidi.def}[2011/11/12 v0.1 bidi adaptations for cutwin package for
9596 \renewcommand*\c@twcompctr}[2]{%
9597 \def\c@twfirst{1}
9598 \loop\advance\c@twinlines\m@ne
9599 \setbox\c@twslicea=\vsplit#1 to\baselineskip
9600 \setbox\c@twsliceb=\vsplit#1 to\baselineskip
9601 \c@twprune{\c@twslicea}{\c@twlftside}%
9602 \c@twprune{\c@twsliceb}{\c@twrtside}%
9603 \ifnum\c@twfirst=\@ne
9604 \setbox#2=\vbox{\unvbox#2\hbox
9605 to\hsize{\if@RTL\box\c@twsliceb\else\box\c@twslicea\fi\pageinwindow\hfil\if@RTL\box\c@tw
9606 \else
9607 \setbox#2=\vbox{\unvbox#2\hbox
9608 to\hsize{\if@RTL\box\c@twsliceb\else\box\c@twslicea\fi\hfil\if@RTL\box\c@twslicea\else\box
9609 \fi
9610 \def\c@twfirst{2}
9611 \ifnum\c@twinlines>\z@\repeat}
9612 \renewcommand*\c@twcompoddctr}[2]{%
9613 \def\c@twrounds{1}
9614 \def\c@twfirst{1}
9615 \@for\c@twlspec:=\c@twb\do{%
9616 \ifnum\c@twrounds=1

```



```

9617 \setbox\c@twslicea=\vsplit#1 to\baselineskip % first of pair
9618 \c@twprune{\c@twslicea}{\c@twlspec}%
9619 \def\c@twrounds{2}
9620 \else
9621 \setbox\c@twsliceb=\vsplit#1 to\baselineskip % second of pair
9622 \c@twprune{\c@twsliceb}{\c@twlspec}%
9623 \ifnum\c@twfirst=1
9624 \setbox#2=\vbox{\unvbox#2\hbox
9625 to\hsize{\ifRTL\box\c@twsliceb\else\box\c@twslicea\fi\hfil\picinwindow\hfil\ifRTL\
9626 \def\c@twfirst{2}
9627 \else
9628 \setbox#2=\vbox{\unvbox#2\hbox
9629 to\hsize{\ifRTL\box\c@twsliceb\else\box\c@twslicea\fi\hfil\ifRTL\box\c@twslicea\el
9630 \fi
9631 \def\c@twrounds{1}
9632 \fi}}

```

## 72 File cuted-xetex-bidi.def

```

9633 \ProvidesFile{cuted-xetex-bidi.def}[2022/02/18 v0.7 bidi adaptations for cuted package for X
9634
9635 \def\RTL@outputdblcol{%
9636 \if@firstcolumn
9637 \global\@firstcolumnfalse
9638 \global\setbox\@leftcolumn\copy\@outputbox
9639 \splitmaxdepth\maxdimen
9640 \vbadness\maxdimen
9641 \setbox\@outputbox\vbox{\unvbox\@outputbox\unskip}%
9642 \setbox\@outputbox\vsplit\@outputbox to\maxdimen
9643 \toks@\expandafter{\topmark}%
9644 \xdef\@firstcoltopmark{\the\toks@}%
9645 \toks@\expandafter{\splitfirstmark}%
9646 \xdef\@firstcolfirstmark{\the\toks@}%
9647 \ifx\@firstcolfirstmark\@empty
9648 \global\let\@setmarks\relax
9649 \else
9650 \gdef\@setmarks{%
9651 \let\firstmark\@firstcolfirstmark
9652 \let\topmark\@firstcoltopmark}%
9653 \fi
9654 \else
9655 \global\@firstcolumntrue
9656 \setbox\@outputbox\vbox{%
9657 \hb@xt@\textwidth{%
9658 \hskip \columnwidth
9659 \hfil
9660 {\normalcolor\vrule \@width\columnseprule}%
9661 \hfil
9662 \hb@xt@\columnwidth{%
9663 \bidi@firstcolumn@status@write%
9664 \box\@leftcolumn \hss}%
9665 \hskip -\textwidth
9666 \hb@xt@\columnwidth{%
9667 \bidi@lastcolumn@status@write%

```



```

9668     \box\@outputbox \hss}%
9669     \hskip \columnsep
9670     \hskip \columnwidth }}%
9671     \ifvoid\hold@viper
9672     \else
9673         \setbox\@outputbox \vbox to\textheight{%
9674             \box\hold@viper
9675             \box\@outputbox
9676             \vss
9677         }%
9678     \fi
9679 \@@combinedblfloats
9680     \@setmarks
9681     \@outputpage
9682     \begingroup
9683         \@dblfloatplacement
9684         \@startdblcolumn
9685         \@whiles\if@fcolmade \fi{\@outputpage
9686         \@startdblcolumn}%
9687         \ifvoid\@viper
9688         \else
9689             \global\setbox\@viper\vbox{%
9690                 \vskip-\stripsep
9691                 \unvbox\@viper
9692             }%
9693         \@viperoutput
9694     \fi
9695     \endgroup
9696 \fi}%
9697
9698 \def\LTR@outputdblcol{%
9699     \if@firstcolumn
9700         \global\@firstcolumnfalse
9701         \global\setbox\@leftcolumn\copy\@outputbox
9702         \splitmaxdepth\maxdimen
9703         \vbadness\maxdimen
9704         \setbox\@outputbox\vbox{\unvbox\@outputbox\unskip}%
9705         \setbox\@outputbox\vsplit\@outputbox to\maxdimen
9706         \toks@\expandafter{\topmark}%
9707         \xdef\@firstcoltopmark{\the\toks@}%
9708         \toks@\expandafter{\splitfirstmark}%
9709         \xdef\@firstcolfirstmark{\the\toks@}%
9710         \ifx\@firstcolfirstmark\@empty
9711             \global\let\@setmarks\relax
9712         \else
9713             \gdef\@setmarks{%
9714                 \let\firstmark\@firstcolfirstmark
9715                 \let\topmark\@firstcoltopmark}%
9716         \fi
9717     \else
9718         \global\@firstcolumntrue
9719         \setbox\@outputbox\vbox{%
9720             \hb@xt@\textwidth{%
9721                 \hb@xt@\columnwidth{%

```



```

9722         \bidi@firstcolumn@status@write%
9723         \box\@leftcolumn \hss}%
9724         \hfil
9725         {\normalcolor\vrule \@width\columnseprule}%
9726         \hfil
9727         \hb@xt@\columnwidth{%
9728         \bidi@lastcolumn@status@write%
9729         \box\@outputbox \hss}}}%
9730 \ifvoid\hold@viper
9731 \else
9732     \setbox\@outputbox \vbox to\textheight{%
9733                                     \box\hold@viper
9734                                     \box\@outputbox
9735                                     \vss
9736                                     }%
9737 \fi
9738 \@combinedblfloats
9739 \@setmarks
9740 \@outputpage
9741 \beginingroup
9742     \@dblfloatplacement
9743     \@startdblcolumn
9744     \@whiles\if@fcolmade \fi{\@outputpage
9745     \@startdblcolumn}%
9746     \ifvoid\@viper
9747     \else
9748         \global\setbox\@viper\vbox{%
9749                     \vskip-\stripsep
9750                     \unvbox\@viper
9751                     }%
9752     \@viperoutput
9753     \fi
9754 \endgroup
9755 \fi}%
9756
9757 \def\@addviper{%
9758     \@insertfalse
9759     \def\var@@thecol@num{2}%
9760     \if@firstcolumn
9761         \def\var@@thecol@num{1}%
9762         \@reqcolroom=.5\@pageht
9763         \ht@viper=\@reqcolroom
9764         \advance\@reqcolroom by\ht\@viper
9765         \advance\@reqcolroom by\stripsep
9766     \else
9767         \@reqcolroom=\@colht
9768         \advance\@reqcolroom by\@pageht
9769         \ht@viper.5\@reqcolroom
9770         \@reqcolroom=\ht@viper
9771         \advance\@reqcolroom by\ht\@viper
9772         \advance\@reqcolroom by\stripsep
9773         \global\setbox\@holdpg\vbox{%
9774             \setbox\cuted@tempbox@a\vbox{%
9775                 \aftergroup\unvbox

```



```

9776         \unvcopy\@leftcolumn
9777         \unskip\unkern\unpenalty
9778         \setbox\@tempboxa\lastbox
9779         \ifdim\dimexpr\ht\@tempboxa+\wd\@tempboxa+\dp\@tempboxa>\z@
9780             %% keeps lastbox
9781             \aftergroup\@leftcolumn
9782         \else
9783             %% removes lastbox
9784             \aftergroup\cuted@@tempbox@a
9785         \fi
9786     }%
9787     \unskip\unkern\unpenalty
9788     \on@stripcols@break
9789     \the\At@ViperColsBreak
9790     \unvbox\@holdpg
9791 }%
9792 \global\At@ViperColsBreak{}%
9793 \ht@viper=.5\ht\@holdpg
9794 \ifdim\ht@viper>\@colht
9795     \ht@viper=\@colht
9796 \fi
9797 \fi
9798 %%
9799 %% calculations for breaking
9800 %%
9801 \ifvoid\hold@viper
9802     \ht@hold@viper=\z@
9803 \else
9804     \ht@hold@viper=\ht\hold@viper
9805 \fi
9806 \cuted@@tempdim@b\ht@viper
9807 \set@split@topskip@to\topskip
9808 \loop
9809     \xdef\saved@tempdimb{\the\cuted@@tempdim@b}%
9810     \setbox\cuted@@varbox@a\copy\@holdpg
9811     \setbox\cuted@@tempbox@a\vsplit\cuted@@varbox@a to\cuted@@tempdim@b
9812     %% set leftcolumn boxes
9813     \setbox\cuted@@tempbox@c\vbox{\unvbox\cuted@@tempbox@a}%
9814     \setbox\cuted@@tempbox@a\vbox to\cuted@@tempdim@b{\unvcopy\cuted@@tempbox@c}%
9815     \xdef\var@@leftcolumn@badness{\the\badness}%
9816     %% set rightcolumn boxes
9817     \setbox\cuted@@varbox@c\vbox{\unvbox\cuted@@varbox@a}%
9818     \setbox\cuted@@varbox@a\vbox to\cuted@@tempdim@b{\unvcopy\cuted@@varbox@c}%
9819     \xdef\var@@rightcolumn@badness{\the\badness}%
9820     %% analyzing split goodness
9821     \cuted@@tempdim@spread=\ht\cuted@@tempbox@c
9822     \advance\cuted@@tempdim@spread by\dp\cuted@@tempbox@c
9823     \advance\cuted@@tempdim@spread by-\ht\cuted@@varbox@c
9824     \advance\cuted@@tempdim@spread by-\dp\cuted@@varbox@c
9825     \cuted@@wlog@debug{CUTED [----]}%
9826     ^^JLeft: \the\ht\cuted@@tempbox@c
9827     +\the\dp\cuted@@tempbox@c\space/\var@@leftcolumn@badness
9828     ^^JRight: \the\ht\cuted@@varbox@c
9829     +\the\dp\cuted@@varbox@c\space/\var@@rightcolumn@badness

```



```

9830      ^^JSplit: \the\cuted@@tempdim@b
9831      ^^JExtra height: \the\cuted@@tempdim@spread
9832    }%
9833    \ifnum\var@@leftcolumn@badness<\cuted@@column@badness
9834      \ifnum\var@@rightcolumn@badness<\cuted@@column@badness
9835        \cuted@@tempdim@spread=\z@
9836      \fi
9837    \fi
9838    \ifdim\cuted@@tempdim@spread<\z@
9839      \if@left@column@spread
9840        \if@right@column@shrink
9841          \ifdim\dimexpr\cuted@@tempdim@spread+\pageshrink>\z@
9842            \cuted@@tempdim@a=\dimexpr\ht\cuted@@tempbox@c-0.5\cuted@@tempdim@spread
9843          \else
9844            \cuted@@tempdim@a=-\dimexpr\cuted@@tempdim@spread+.5\pageshrink\relax
9845          \fi
9846          \setbox\cuted@@varbox@a\vbox to\cuted@@tempdim@a{\unvcopy\cuted@@tempbox@c}
9847          \ifnum\badness<\cuted@@column@badness
9848            \cuted@@tempdim@b=\cuted@@tempdim@a
9849            \cuted@@tempdim@spread=\z@
9850          \fi
9851          \cuted@@wlog@debug{CUTED [leftcolumn badness]: \number\badness\space on
9852            \setbox\cuted@@varbox@a\vbox to\cuted@@tempdim@a{\unvcopy\cuted@@varbox@c}
9853            \cuted@@wlog@debug{CUTED [rightcolumn badness]: \number\badness\space on
9854          \else
9855            \setbox\cuted@@varbox@a\vbox to\ht\cuted@@varbox@c{
9856              \unvcopy\cuted@@tempbox@c
9857            }%
9858            \ifnum\badness<\cuted@@column@badness
9859              \@tempdimb=\ht\cuted@@varbox@c
9860              \cuted@@tempdim@spread=\z@
9861            \fi
9862            \cuted@@wlog@debug{CUTED [leftcolumn badness]: \number\badness on \the\hbox{
9863              \setbox\cuted@@varbox@a\vbox to\ht\cuted@@varbox@c{
9864                \unvcopy\cuted@@varbox@c
9865              }%
9866              \cuted@@wlog@debug{CUTED [rightcolumn badness]: \number\badness on \the\hbox{
9867            \fi
9868          \else
9869            \if@right@column@shrink
9870              \ifdim\dimexpr\cuted@@tempdim@spread+\pageshrink<\z@
9871            \else
9872              \cuted@@tempdim@b=\ht\cuted@@tempbox@c
9873              \cuted@@tempdim@spread=\z@
9874            \fi
9875          \fi
9876        \fi
9877      \else
9878        \ifdim\cuted@@tempdim@spread>\z@
9879          \ifdim\dimexpr\@tempdimb+\p@relax>\@colht
9880            \cuted@@tempdim@b=\@colht
9881            \cuted@@tempdim@spread=\z@
9882          \fi
9883        \fi

```



```

9884      \fi
9885      \ifdim\cuted@@tempdim@spread<\z@
9886        \advance\cuted@@tempdim@b 1\p@
9887      \repeat
9888      \wlog{CUTED [- LAST -]%
9889        ^^JExtra skip:\the\cuted@@tempdim@spread
9890        ^^JLeft:\the\ht\cuted@@tempbox@c/\the\dp\cuted@@tempbox@c
9891        ^^JRight:\the\ht\cuted@@varbox@c/\the\dp\cuted@@varbox@c
9892        ^^JSplit:\saved@tempdimb
9893        ^^JOutput:\the\cuted@@tempdim@b
9894        ^^JPageshrink:\the\pageshrink
9895        ^^JPagestretch:\the\pagestretch
9896        ^^J@colht:\the\@colht
9897      }%
9898    %%
9899    %% final construction of the cuted page above strip
9900    %%
9901    \setbox\cuted@@tempbox@c\vsplit\@holdpg to\saved@tempdimb
9902    \setbox\cuted@@tempbox@a\vbox to\cuted@@tempdim@b{%
9903      \cuted@@tempdim@a=\dimexpr
9904        \cuted@@tempdim@b-\ht\cuted@@tempbox@c
9905      \relax
9906      \cuted@@tempdim@spread=\dp\cuted@@tempbox@c
9907      \unvbox\cuted@@tempbox@c
9908      \ifdim\cuted@@tempdim@spread>\dp\strutbox
9909        \else
9910          \vskip-\cuted@@tempdim@spread
9911        \fi
9912        \prevdepth\z@
9913        \hrule\@height\cuted@@page@rule width\textwidth
9914        \vskip-\cuted@@page@rule
9915        \ifdim\cuted@@tempdim@a>\z@
9916          \if@left@column@spread
9917            \else
9918              \vss
9919            \fi
9920          \else
9921            \ifdim\cuted@@tempdim@a<\z@
9922              \if@left@column@shrink
9923            \else
9924              \vss
9925            \fi
9926          \fi
9927        \fi
9928      }%
9929      \wlog{CUTED [output]: \the\cuted@@tempdim@b
9930        ^^JCUTED [leftcolumn badness]: \number\badness
9931      }%
9932      \setbox\cuted@@varbox@a\vbox to\cuted@@tempdim@b{%
9933        \cuted@@tempdim@a=\dimexpr
9934          \cuted@@tempdim@b-\ht\@holdpg
9935        \relax
9936        \unvbox\@holdpg
9937        \ifdim\cuted@@tempdim@a>\z@

```



```

9938         \if@right@column@spread
9939         \else
9940             \vss
9941         \fi
9942     \else
9943         \ifdim\cuted@@tempdim@a<\z@
9944             \if@right@column@shrink
9945             \else
9946                 \vss
9947             \fi
9948         \fi
9949     \fi
9950 }%
9951 \wlog{CUTED [rightcolumn badness]: \number\badness}%
9952 \setbox\cuted@@tempbox@var\vbox{%
9953     \hb@xt@\textwidth{%
9954         \if@RTLmain
9955             \hskip \columnwidth
9956             \hfil
9957             {\normalcolor\vrule \@width\columnseprule}%
9958             \hfil
9959             \hb@xt@\columnwidth{%
9960                 \vbox to\ht@viper{\box\cuted@@tempbox@a\vss}%
9961                 \hss
9962             }%
9963             \hskip -\textwidth
9964             \hb@xt@\columnwidth{%
9965                 \vbox to\ht@viper{\box\cuted@@varbox@a\vss}%
9966                 \hss
9967             }%
9968             \hskip \columnsep
9969             \hskip \columnwidth
9970         \else
9971             \hb@xt@\columnwidth{%
9972                 \vbox to\ht@viper{\box\cuted@@tempbox@a\vss}%
9973                 \hss
9974             }%
9975             \hfil
9976             {\normalcolor\vrule \@width\columnseprule}%
9977             \hfil
9978             \hb@xt@\columnwidth{%
9979                 \vbox to\ht@viper{\box\cuted@@varbox@a\vss}%
9980                 \hss
9981             }%
9982         \fi
9983     }%
9984 }%
9985 %%
9986 %% finalize cuted page
9987 %%
9988 \ifvoid\hold@viper
9989     \global\setbox\hold@viper\vbox{%
9990         \unvbox\cuted@@tempbox@var
9991         \penalty\interlinepenalty

```



```

9992         \vskip\stripsep
9993         \the\preCutedStrip
9994         \ifnum\outputpenalty<-\@Mii
9995             \vskip -\parskip
9996         \fi
9997         \outputpenalty\z@
9998     }%
9999 \else
10000     \global\setbox\hold@viper\vbox{%
10001         \unvbox\hold@viper
10002         \cuted@@tempbox@var
10003         \penalty\interlinepenalty
10004         \vskip\stripsep
10005         \the\preCutedStrip
10006         \ifnum\outputpenalty<-\@Mii
10007             \vskip -\parskip
10008         \fi
10009         \outputpenalty\z@
10010     }%
10011 \fi
10012 \ifdim\@colht>\@reqcolroom
10013     \global\setbox\hold@viper\vbox{%
10014         \unvbox\hold@viper
10015         \box\@viper
10016         \penalty\interlinepenalty
10017         \the\postCutedStrip
10018         \vskip\stripsep
10019         \ifnum\outputpenalty<-\@Mii
10020             \vskip -\parskip
10021         \fi
10022         \outputpenalty\z@
10023     }%
10024     \@inserttrue
10025     \global\@firstcolumntrue
10026     \advance\ht@hold@viper by-\ht\hold@viper
10027     \global\advance\@colht by\ht@hold@viper
10028     \ifdim\@colht<2.5\baselineskip
10029         \@latex@warning@no@line {Optional argument of \noexpand\twocolumn
10030             too tall on page \thepage (\var@@thecol@num column)}}%
10031         \@emptycol
10032         \if@firstcolumn
10033         \else
10034             \@emptycol
10035         \fi
10036         \global\@lastvipertrue
10037 \else
10038     \global\vsizel\@colht
10039     \global\@colroom\@colht
10040     \check@floats\cuted@@tempdim@a
10041     \ifdim\cuted@@tempdim@a>\z@
10042         \global\advance\@colroom by-\cuted@@tempdim@a
10043     \fi
10044     \ifdim\@colroom<\z@
10045         \global\@colroom1\p@

```



```

10046         \ifdim\cuted@@tempdim@a>\@colht
10047             \latex@warning@no@line{TOP and/or BOT FLOAT's
10048                 to large on \thepage (\var@@thecol@num column)}}%
10049         \fi
10050         \@emptycol
10051         \if@firstcolumn
10052         \else
10053             \@emptycol
10054         \fi
10055         \global\@lastvipertrue
10056     \fi
10057 \fi
10058 \fi
10059 \if@insert
10060 \else
10061     \advance\ht@hold@viper by-\ht\hold@viper
10062     \global\advance\@colht by\ht@hold@viper
10063     \global\setbox\hold@viper\vbox{%
10064         \unvbox\hold@viper
10065         \set@split@topskip@to{\z@ plus2\p@}%
10066         \vsplit\@viper to\@colht
10067         \vss
10068     }%
10069     \vbox{%
10070         \global\@firstcolumnfalse
10071         \newpage
10072     \fi
10073 }

```

## 73 File cvthemebidicasual.sty

```

10074 \NeedsTeXFormat{LaTeX2e}
10075 \ProvidesPackage{cvthemebidicasual}
10076 \DeclareOption{blue}{}
10077 \newif\if@colourorange\@colourorangefalse
10078 \DeclareOption{orange}{\@colourorangetrue}
10079 \newif\if@colourgreen\@colourgreenfalse
10080 \DeclareOption{green}{\@colourgreentrue}
10081 \newif\if@colourred\@colourredfalse
10082 \DeclareOption{red}{\@colourredtrue}
10083 \newif\if@colourgrey\@colourgreyfalse
10084 \DeclareOption{grey}{\@colourgreytrue}
10085 \DeclareOption*{
10086     \PackageWarning{cvthemebidicasual}{Unknown option ‘\CurrentOption’}}
10087 \ExecuteOptions{colour}
10088 \ProcessOptions\relax
10089 \renewcommand*{\listitemsymbol}{\textbullet}
10090 \definecolor{firstnamecolor}{rgb}{0.65,0.65,0.65}
10091 \familynamecolour{808080}
10092 \firstnamecolour{A9A9A9}
10093 \quotecolour{696969}
10094 \addresscolour{696969}
10095 \definecolor{sectionrectanglecolor}{rgb}{0.25,0.50,0.75}
10096 \sectiontitlecolour{1E90FF}

```



```

10097 \subsectioncolour{4682B4}
10098 \definecolor{rulecolour}{gray}{0.6}
10099 \definecolor{footersymbolcolour}{rgb}{0.25,0.50,0.75}
10100 \definecolor{footersymbolcolor}{rgb}{0.25,0.50,0.75}
10101 \if@colourorange
10102 \definecolor{sectionrectanglecolor}{rgb}{1.00,0.65,0.20}
10103 \definecolor{sectionrectanglecolour}{rgb}{1.00,0.65,0.20}
10104 \sectiontitlecolour{FF8C00}
10105 \subsectioncolour{FF8C00}
10106 \definecolor{footersymbolcolour}{rgb}{0.95,0.55,0.15}
10107 \definecolor{footersymbolcolor}{rgb}{0.95,0.55,0.15}\fi
10108 \if@colourgreen
10109 \definecolor{sectionrectanglecolor}{rgb}{0.55,0.85,0.35}
10110 \definecolor{sectionrectanglecolour}{rgb}{0.55,0.85,0.35}
10111 \sectiontitlecolour{008000}
10112 \subsectioncolour{008000}
10113 \definecolor{footersymbolcolour}{rgb}{0.30,0.65,0.15}
10114 \definecolor{footersymbolcolor}{rgb}{0.30,0.65,0.15}\fi
10115 \if@colourred
10116 \definecolor{sectionrectanglecolor}{rgb}{1.00,0.30,0.30}
10117 \definecolor{sectionrectanglecolour}{rgb}{1.00,0.30,0.30}
10118 \sectiontitlecolour{FF0000}
10119 \subsectioncolour{FF0000}
10120 \definecolor{footersymbolcolour}{rgb}{0.95,0.20,0.20}
10121 \definecolor{footersymbolcolor}{rgb}{0.95,0.20,0.20}\fi
10122 \if@colourgrey
10123 \definecolor{sectionrectanglecolor}{rgb}{0.75,0.75,0.75}
10124 \definecolor{sectionrectanglecolour}{rgb}{0.75,0.75,0.75}
10125 \sectiontitlecolour{808080}
10126 \subsectioncolour{808080}
10127 \definecolor{footersymbolcolour}{rgb}{0.35,0.35,0.35}
10128 \definecolor{footersymbolcolor}{rgb}{0.35,0.35,0.35}\fi
10129 \renewcommand*{\ttdefault}{pcr}
10130 \renewcommand*{\firstnamefont}{\fontsize{38}{40}\mdseries\upshape}
10131 \renewcommand*{\familynamefont}{\firstnamefont}
10132 \renewcommand*{\addressfont}{\normalsize\mdseries\slshape}
10133 \renewcommand*{\quoteontext}{\large\slshape}
10134 \renewcommand*{\sectionfont}{\Large\mdseries\upshape}
10135 \renewcommand*{\subsectionfont}{\large\mdseries\upshape}
10136 \renewcommand*{\maketitle}{%
10137   {%
10138     \ifthenelse{\isundefined{\@photo}}{%
10139       {%
10140         {\color{firstnamecolor}\framebox{\includegraphics[width=\@photowidth]{\@photo}}}%
10141         \hfill%
10142         \bidi@raggedleft{\firstnamestyle{\@firstname}~\familynamestyle{\@familyname}}\[-.35em]}%
10143         {\color{firstnamecolor}\rule{\textwidth}{.25ex}\[2.5em]}%
10144       \ifthenelse{\isundefined{\@quote}}{%
10145         {%
10146           \centering{\begin{minipage}{\quotewidth}\centering\quotestyle{\@quote}\end{minipage}}\%
10147         }%
10148       \newif\iffirstfooterelement\@firstfooterelementtrue
10149       \providecommand*{\footersymbol}{%
10150       \renewcommand*{\footersymbol}{%

```



```

10151 \if@firstfooterelement%
10152 \else%
10153 { ~\color{footersymbolcolor}\textbullet~~}\fi}
10154 \providecommand*\makefooter{}
10155 \renewcommand*\makefooter{%
10156 \fancypagestyle{plain}{%
10157 \fancyfoot[c]{%
10158 \parbox{0.8\textwidth}{%
10159 \centering%
10160 \addressfont\@addresscolour%
10161 \ifthenelse{isundefined{\@address}}{}{}%
10162 \addresssymbol~\@address\\%
10163 \@firstfooterelementfalse}%
10164 \ifthenelse{isundefined{\@mobile}}{}{\mobilesymbol~\@mobile\@firstfooterelementfalse}%
10165 \ifthenelse{isundefined{\@phone}}{}{\footersymbol\phonesymbol~\@phone\@firstfooterelementfalse}%
10166 \ifthenelse{isundefined{\@fax}}{}{\footersymbol\faxsymbol~\@fax\@firstfooterelementfalse}%
10167 \ifthenelse{isundefined{\@email}}{}{\footersymbol\emailsymbol~\email\@firstfooterelementfalse}%
10168 \ifthenelse{isundefined{\@extrainfo}}{}{\footersymbol\extrainfo\@firstfooterelementfalse}%
10169 }%
10170 \pagestyle{plain}}
10171 \AtBeginDocument{\makefooter}

```

## 74 File cvthemebidiclassic.sty

```

10172 \NeedsTeXFormat{LaTeX2e}
10173 \ProvidesPackage{cvthemebidiclassic}
10174 \DeclareOption{blue}{}
10175 \newif\if@colourorange\@colourorangefalse
10176 \DeclareOption{orange}{\@colourorange>true}
10177 \newif\if@colourgreen\@colourgreenfalse
10178 \DeclareOption{green}{\@colourgreentrue}
10179 \newif\if@colourred\@colourredfalse
10180 \DeclareOption{red}{\@colourredtrue}
10181 \newif\if@colourgrey\@colourgreyfalse
10182 \DeclareOption{grey}{\@colourgreytrue}
10183 \DeclareOption*{
10184 \PackageWarning{cvthemebidiclassic}{Unknown option '\CurrentOption'}}
10185 \ExecuteOptions{colour}
10186 \ProcessOptions\relax
10187 \renewcommand*\listitemsymbol{\textbullet}
10188 \firstnamecolour{}
10189 \familynamecolour{}
10190 \titlecolour{808080}
10191 \quotecolour{696969}
10192 \addresscolour{696969}
10193 \definecolor{sectionrectanglecolour}{rgb}{0.25,0.50,0.75}
10194 \definecolor{sectionrectanglecolor}{rgb}{0.25,0.5,0.75}
10195 \sectiontitlecolour{1E90FF}
10196 \subsectioncolour{4682B4}
10197 \if@colourorange
10198 \addresscolour{FF8C00}
10199 \definecolor{sectionrectanglecolour}{rgb}{1.00,0.65,0.20}
10200 \definecolor{sectionrectanglecolor}{rgb}{1,0.65,0.20}
10201 \sectiontitlecolour{FF8C00}

```



```

10202 \subsectioncolour{FF8C00}\fi
10203 \if@colourgreen
10204 \addresscolour{008000}
10205 \definecolor{sectionrectanglecolour}{rgb}{0.55,0.85,0.35}
10206 \definecolor{sectionrectanglecolor}{rgb}{0.55,0.85,0.35}
10207 \sectiontitlecolour{008000}
10208 \subsectioncolour{008000}\fi
10209 \if@colourred
10210 \addresscolour{FF0000}
10211 \definecolor{sectionrectanglecolour}{rgb}{1.00,0.30,0.30}
10212 \definecolor{sectionrectanglecolor}{rgb}{1.00,0.30,0.30}
10213 \sectiontitlecolour{FF0000}
10214 \subsectioncolour{FF0000}\fi
10215 \if@colourgrey
10216 \addresscolour{808080}
10217 \definecolor{sectionrectanglecolour}{rgb}{0.75,0.75,0.75}
10218 \definecolor{sectionrectanglecolor}{rgb}{0.75,0.75,0.75}
10219 \sectiontitlecolour{808080}
10220 \subsectioncolour{808080}\fi
10221 \renewcommand*{\ttdefault}{pcr}
10222 \renewcommand*{\firstnamefont}{\fontsize{34}{36}\mdseries\upshape}
10223 \renewcommand*{\titlefont}{\LARGE\mdseries\slshape}
10224 \renewcommand*{\addressfont}{\normalsize\mdseries\slshape}
10225 \renewcommand*{\familynamefont}{\firstnamefont}
10226 \renewcommand*{\quoteont}{\large\slshape}
10227 \renewcommand*{\sectionfont}{\Large\mdseries\upshape}
10228 \renewcommand*{\subsectionfont}{\large\mdseries\upshape}
10229 \newlength{\maketitlenamemaxwidth}
10230 \setlength{\maketitlenamemaxwidth}{.525\textwidth}
10231 \newlength{\maketitlenamefullwidth}
10232 \settowidth{\maketitlenamefullwidth}{\firstnamestyle{\@firstname~}\familynamestyle{\@familyname}}
10233 \newlength{\maketitlenamewidth}
10234 \ifnum\maketitlenamemaxwidth<\maketitlenamefullwidth\setlength{\maketitlenamewidth}{\maketitlenamefullwidth}
10235 \newlength{\maketitlepicturewidth}
10236 \setlength{\maketitlepicturewidth}{\@photowidth}
10237 \newlength{\maketitledetailwidth}
10238 \renewcommand*{\recomputethemelengths}{%
10239 \setlength{\maketitledetailwidth}{\textwidth}%
10240 \addtolength{\maketitledetailwidth}{-\maketitlenamewidth}%
10241 \addtolength{\maketitledetailwidth}{-\separatorcolumnwidth}%
10242 \addtolength{\maketitledetailwidth}{-\maketitlepicturewidth}}
10243 \recomputethemelengths
10244 \newif\if@firstdetailselement\@firstdetailselementtrue
10245 \newcommand*{\maketitledetailnewline}{
10246 \if@firstdetailselement%
10247 \@firstdetailselementfalse%
10248 \else%
10249 \[\.2em]\fi}
10250 \renewcommand*{\maketitle}{%
10251 % name and title
10252 \begin{minipage}[b]{\maketitlenamewidth}%
10253 \firstnamestyle{\@firstname~}\familynamestyle{\@familyname}%
10254 \ifthenelse{\equal{\@title}{}}{\[\[1.25em]\titlestyle{\@title}}%
10255 \end{minipage}%

```



```

10256 % optional data
10257 \begin{minipage}[b]{\maketitledetailwidth}%
10258 \bidi@raggedleft\addressfont\@addresscolour%
10259 \ifthenelse{\isundefined{\@address}}{}{%
10260 \maketitledetailsnewline%
10261 \addresssymbol~\\ \@address}%
10262 \ifthenelse{\isundefined{\@mobile}}{}{\maketitledetailsnewline\mobilesymbol~\@mobile}%
10263 \ifthenelse{\isundefined{\@phone}}{}{\maketitledetailsnewline\phonesymbol~\@phone}%
10264 \ifthenelse{\isundefined{\@fax}}{}{\maketitledetailsnewline\faxsymbol~\@fax}%
10265 \ifthenelse{\isundefined{\@email}}{}{\maketitledetailsnewline\emailsymbol~\emailink{\@e
10266 \ifthenelse{\isundefined{\@extrainfo}}{}{\maketitledetailsnewline\@extrainfo}%
10267 \end{minipage}%
10268 % optional photo
10269 \ifthenelse{\isundefined{\@photo}}%
10270 {}%
10271 {\hspace*{\separatorcolumnwidth}\color{firstnamecolor}\framebox{\includegraphics[width=
10272 % optional quote
10273 \ifthenelse{\isundefined{\@quote}}%
10274 {}%
10275 {\centering{\begin{minipage}{\quotewidth}\centering\quotestyle{\@quote}\end{minipage}}\
10276 }

```

## 75 File dblfnote-xetex-bidi.def

```

10277 \ProvidesFile{dblfnote-xetex-bidi.def}[2012/12/12 v0.3 bidi adaptations for dblfnote package]
10278 \let\autofootnoterule\relax
10279 \let\rightfootnoterule\relax
10280 \let\leftfootnoterule\relax
10281 \let\textwidthfootnoterule\relax
10282 \let\LRfootnoterule\relax
10283 \def\footnoterule{\kern-3\p@
10284 \hrule \@width \DFNcolumnwidth \kern 2.6\p@}%
10285 \AtBeginDocument{\let\dfn@latex@footnotetext\@footnotetext
10286 \let\@footnotetext\dfn@footnotetext}
10287 \long\def\dfn@LTRfootnotetext#1{{\setbox\dfn@boxa\vbox{
10288 \let\insert\dfn@gobble
10289 \columnwidth\DFNcolumnwidth \hbadness\c@DFNsloppiness
10290 \def\@makefnmark{\smash{\dfn@makefnmark}}
10291 \dfn@latex@LTRfootnotetext{#1}\par \boxmaxdepth\dfn@fnmaxdp}%
10292 \dfn@dima\ht\dfn@boxa \advance\dfn@dima\dp\dfn@boxa
10293 \ifdim\dfn@dima>\z@else
10294 \dfn@dima1sp\relax
10295 \setbox\dfn@boxa\vbox{\vbox to1sp{\unvbox\dfn@boxa\vfil}}\fi
10296 \global\setbox\dfn@ins\vbox{\boxmaxdepth\dfn@fnmaxdp
10297 \ifvoid\dfn@inselse
10298 \unvbox\dfn@ins \allowbreak \nointerlineskip \fi
10299 \ifdfn@allowcbreak \unvbox \else \box \fi \dfn@boxa}%
10300 \setbox\dfn@boxa\copy\dfn@ins
10301 \dfn@split{.5\ht\dfn@boxa}\dfn@boxa\dfn@boxb\dfn@fnmaxdp\footnotesep
10302 \advance\@tempdima\@tempdimb \@tempdimb\@tempdima
10303 \advance\@tempdima-\dfn@fnht \global\dfn@fnht\@tempdimb
10304 \insert\footins{\floatingpenalty\@MM \vbox to\@tempdima{}}%
10305 \xdef\dfn@list{\dfn@list\@elt{\number\dfn@dima}{\number\@tempdima}}}}
10306 \AtBeginDocument{\let\dfn@latex@LTRfootnotetext\@LTRfootnotetext

```



```

10307 \let\@LTRfootnotetext\dfn@LTRfootnotetext}
10308 \long\def\dfn@RTLfootnotetext#1{{\setbox\dfn@boxa\vbox{
10309     \let\insert\dfn@gobble
10310     \columnwidth\DFNcolumnwidth \hbadness\c@DFNsloppiness
10311     \def\@makefnmark{\smash{\dfn@makefnmark}}
10312     \dfn@latex@RTLfootnotetext{#1}\par \boxmaxdepth\dfn@fnmaxdp}%
10313     \dfn@dima\ht\dfn@boxa \advance\dfn@dima\dp\dfn@boxa
10314     \ifdim\dfn@dima>z@\else
10315         \dfn@dima1sp\relax
10316         \setbox\dfn@boxa\vbox{\vbox to1sp{\unvbox\dfn@boxa\vfil}}\fi
10317     \global\setbox\dfn@ins\vbox{\boxmaxdepth\dfn@fnmaxdp
10318         \ifvoid\dfn@ins\else
10319             \unvbox\dfn@ins \allowbreak \nointerlineskip \fi
10320             \ifdfn@allowcbreak \unvbox \else \box \fi \dfn@boxa}%
10321     \setbox\dfn@boxa\copy\dfn@ins
10322     \dfn@split{.5\ht\dfn@boxa}\dfn@boxa\dfn@boxb\dfn@fnmaxdp\footnotesep
10323     \advance\@tempdima\@tempdimb \@tempdimb\@tempdima
10324     \advance\@tempdima-\dfn@fnht \global\dfn@fnht\@tempdimb
10325     \insert\footins{\floatingpenalty\@MM \vbox to\@tempdima{}}%
10326     \xdef\dfn@list{\dfn@list\@elt{number\dfn@dima}{number\@tempdima}}}}
10327 \AtBeginDocument{\let\dfn@latex@RTLfootnotetext\@RTLfootnotetext
10328 \let\@RTLfootnotetext\dfn@RTLfootnotetext}
10329 \def\dfn@RTLmakecol{{\ifvoid\footins\else
10330     \dfn@dima\ht\footins
10331     \@tempcnta\z@ \dfn@countins
10332     \@tempdima\z@ \let\@elt\dfn@elt@getht
10333     \dfn@list\@nil
10334     \ifdim\@tempdima=\z@\else
10335     \dfn@split\@tempdima\dfn@ins\dfn@boxa\z@\z@
10336     \global\setbox\dfn@ins\box\dfn@ins
10337     \@tempswatrue
10338     \ifdfn@trysingle
10339         \setbox\dfn@boxb\vbox{\unvcopy\@cclv}\@tempdima\@colroom
10340         \advance\@tempdima-\ht\dfn@boxb \advance\@tempdima-\dp\dfn@boxb
10341         \advance\@tempdima-\skip\footins
10342         \advance\@tempdima-\ht\dfn@boxa
10343         \ifdim\@tempdima<z@\else \@tempswafalse
10344             \global\setbox\footins\vbox{\boxmaxdepth\dfn@fnmaxdp
10345                 \footnoterule \unvbox\dfn@boxa}\fi\fi
10346     \if@tempswa
10347     \dfn@split{\dfn@dima}\dfn@boxa\dfn@boxb\dfn@fnmaxdp\footnotesep
10348     \global\setbox\footins\vbox{\hbox{%
10349         \hskip \DFNcolumnwidth
10350         \hskip\DFNcolumnsep
10351         \hbox to\DFNcolumnwidth{\vbox to\@tempdima{\footnoterule
10352             \unvbox\dfn@boxb\vss}\hss}
10353         \hskip -\textwidth
10354         \hbox to\DFNcolumnwidth{\ifvoid\dfn@boxa\else
10355             \vbox to\@tempdima{
10356                 \setbox\@tempboxa\vbox{\footnoterule}
10357                 \ifdfn@ruleboth \unvbox\@tempboxa
10358                 \else \@tempdima\ht\@tempboxa
10359                 \advance\@tempdima\dp\@tempboxa
10360                 \vskip\@tempdima

```



```

10361                                \prevdepth\dp\@tempboxa \fi
10362                                \unvbox\dfn@boxa\vss}\fi\hss}
10363                                \hskip \DFNcolumnsep
10364                                \hskip \DFNcolumnwidth}}\fi\fi
10365    \global\dfn@fnht\z@
10366    \ifx\dfn@list\@empty\else
10367        \let\@elt\dfn@elt@adjust \dfn@dima\z@ \dfn@dimb\z@
10368        \dfn@list \global\advance\dfn@fnht\dfn@dimb
10369        \let\@elt\relax
10370        \ifdim\dfn@dimb>\z@
10371            \xdef\dfn@list{\@elt{0}{\number\dfn@dimb}\dfn@list}%
10372            \insert\footins{\floatingpenalty\MM
10373                \vbox to\dfn@dimb{}}\fi
10374        \ifdim\dfn@fnht>\@tempdima
10375            \@tempdimb\@tempdima \advance\@tempdimb-\dfn@fnht
10376            \global\dfn@fnht\@tempdima
10377            \xdef\dfn@list{\dfn@list\@elt{0}{\number\@tempdimb}}%
10378            \xdef\dfn@afteroutput{\insert\footins{
10379                \floatingpenalty\MM
10380                \vbox to\number\@tempdimb sp{}}}%
10381            \global\let\noexpand\dfn@afteroutput\relax}%
10382        \fi\fi
10383    \fi}%
10384    \let\footnoterule\relax \dfn@latex@makecol
10385    \let\footnoterule\dfn@footnoterule}
10386\def\dfn@LTRmakecol{\ifvoid\footins\else
10387    \dfn@dima\ht\footins
10388    \@tempcnta\z@ \dfn@countins
10389    \@tempdima\z@ \let\@elt\dfn@elt@getht
10390    \dfn@list\@nil
10391    \ifdim\@tempdima=\z@\else
10392        \dfn@split\@tempdima\dfn@ins\dfn@boxa\z@\z@
10393        \global\setbox\dfn@ins\box\dfn@ins
10394        \@tempswatrue
10395        \ifdfn@trysingle
10396            \setbox\dfn@boxb\vbox{\unvcopy\@cclv}\@tempdima\@colroom
10397            \advance\@tempdima-\ht\dfn@boxb \advance\@tempdima-\dp\dfn@boxb
10398            \advance\@tempdima-\skip\footins
10399            \advance\@tempdima-\ht\dfn@boxa
10400            \ifdim\@tempdima<\z@\else \@tempswafalse
10401                \global\setbox\footins\vbox{\boxmaxdepth\dfn@fnmaxdp
10402                    \footnoterule \unvbox\dfn@boxa}\fi\fi
10403        \if@tempswa
10404            \dfn@split{\dfn@dima}\dfn@boxa\dfn@boxb\dfn@fnmaxdp\footnotesep
10405            \global\setbox\footins\vbox{\hbox{%
10406                \hbox to\DFNcolumnwidth{\vbox to\@tempdima{\footnoterule
10407                    \unvbox\dfn@boxb\vss}\hss}\hskip\DFNcolumnsep
10408                \hbox to\DFNcolumnwidth{\ifvoid\dfn@boxa\else
10409                    \vbox to\@tempdima{
10410                        \setbox\@tempboxa\vbox{\footnoterule}
10411                        \ifdfn@ruleboth \unvbox\@tempboxa
10412                        \else \@tempdima\ht\@tempboxa
10413                            \advance\@tempdima\dp\@tempboxa
10414                            \vskip\@tempdima

```



```

10415 \prevdepth\dp\@tempboxa \fi
10416 \unvbox\dfn@boxa\vss}\fi\hss}}}\fi\fi
10417 \global\dfn@fnht\z@
10418 \ifx\dfn@list\@empty\else
10419 \let\@elt\dfn@elt@adjust \dfn@dima\z@ \dfn@dimb\z@
10420 \dfn@list \global\advance\dfn@fnht\dfn@dimb
10421 \let\@elt\relax
10422 \ifdim\dfn@dimb>\z@
10423 \xdef\dfn@list{\@elt{0}{\number\dfn@dimb}\dfn@list}%
10424 \insert\footins{\floatingpenalty\@MM
10425 \vbox to\dfn@dimb{}}}\fi
10426 \ifdim\dfn@fnht>\@tempdima
10427 \@tempdimb\@tempdima \advance\@tempdimb-\dfn@fnht
10428 \global\dfn@fnht\@tempdima
10429 \xdef\dfn@list{\dfn@list\@elt{0}{\number\@tempdimb}}}%
10430 \xdef\dfn@afteroutput{\insert\footins{
10431 \floatingpenalty\@MM
10432 \vbox to\number\@tempdimb sp{}}}%
10433 \global\let\noexpand\dfn@afteroutput\relax}%
10434 \fi\fi
10435 \fi}%
10436 \let\footnoterule\relax \dfn@latex@makecol
10437 \let\footnoterule\dfn@footnoterule}
10438 \renewcommand{\dfn@makecol}{\if@RTLmain\dfn@RTLmakecol\else\dfn@LTRmakecol\fi}
10439 \newcommand{\RTLdfnmakecol}{\renewcommand{\dfn@makecol}{\dfn@RTLmakecol}}
10440 \newcommand{\LTRdfnmakecol}{\renewcommand{\dfn@makecol}{\dfn@LTRmakecol}}
10441 \DFNalwaysdouble

```

## 76 File diagbox-xetex-bidi.def

```

10442 \ProvidesFile{diagbox-xetex-bidi.def}[2017/12/30 v0.2 bidi adaptations for diagbox package f
10443 \bidi@patchcmd{\diagbox@double}{%
10444 \begin{tabular}{@{\hspace{\diagbox@insepl}}>{\diagbox@font}l@{}}
10445 }{\bidi@@diagbox@double@ii}{}}
10446 \bidi@patchcmd{\diagbox@double}{%
10447 \begin{tabular}{@{}>{\diagbox@font}r@{\hspace{\diagbox@insepr}}}}
10448 }{\bidi@@diagbox@double@iii}{}}
10449 \newcommand*{\bidi@@diagbox@double@ii}{%
10450 \if@RTL
10451 \begin{tabular}{@{}>{\diagbox@font}r@{\hspace{\diagbox@insepl}}}}
10452 \else
10453 \begin{tabular}{@{\hspace{\diagbox@insepl}}>{\diagbox@font}l@{}}
10454 \fi
10455 }
10456 \newcommand*{\bidi@@diagbox@double@iii}{%
10457 \if@RTL
10458 \begin{tabular}{@{\hspace{\diagbox@insepr}}>{\diagbox@font}l@{}}
10459 \else
10460 \begin{tabular}{@{}>{\diagbox@font}r@{\hspace{\diagbox@insepr}}}}
10461 \fi
10462 }
10463 \bidi@patchcmd{\diagbox@triple@setbox@NW}{%
10464 \begin{tabular}{@{\hspace{\diagbox@insepl}}>{\diagbox@font}l@{}}
10465 }{\bidi@@diagbox@triple@setbox@NW@tabular@i@ii}{}}

```



```

10466 \bidi@patchcmd{\diagbox@triple@setbox@NW}{%
10467     \begin{tabular}{@{\hspace{\diagbox@insepl}}>{\diagbox@font}l@{}}
10468 }{\bidi@@diagbox@triple@setbox@NW@tabular@i@ii}{-}{-}
10469 \bidi@patchcmd{\diagbox@triple@setbox@NW}{%
10470     \begin{tabular}{@{}}>{\diagbox@font}r@{\hspace{\diagbox@insepr}}
10471 }{\bidi@@diagbox@triple@setbox@NW@tabular@iii}{-}{-}
10472 \newcommand*{\bidi@@diagbox@triple@setbox@NW@tabular@i@ii}{%
10473     \if@RTL
10474         \begin{tabular}{@{}}>{\diagbox@font}r@{\hspace{\diagbox@insepl}}
10475     \else
10476         \begin{tabular}{@{\hspace{\diagbox@insepl}}>{\diagbox@font}l@{}}
10477     \fi
10478 \newcommand*{\bidi@@diagbox@triple@setbox@NW@tabular@iii}{%
10479     \if@RTL
10480         \begin{tabular}{@{\hspace{\diagbox@insepr}}>{\diagbox@font}l@{}}
10481     \else
10482         \begin{tabular}{@{}}>{\diagbox@font}r@{\hspace{\diagbox@insepr}}
10483     \fi
10484 \let\diagbox@triple@setbox@SW\diagbox@triple@setbox@NW
10485 \bidi@patchcmd{\diagbox@triple@setbox@SE}{%
10486     \begin{tabular}{@{\hspace{\diagbox@insepl}}l@{}}%
10487 }{\bidi@@diagbox@triple@setbox@SE@tabular@i}{-}{-}
10488 \bidi@patchcmd{\diagbox@triple@setbox@SE}{%
10489     \begin{tabular}{@{}r@{\hspace{\diagbox@insepr}}}%
10490 }{\bidi@@diagbox@triple@setbox@SE@tabular@ii@iii}{-}{-}
10491 \bidi@patchcmd{\diagbox@triple@setbox@SE}{%
10492     \begin{tabular}{@{}r@{\hspace{\diagbox@insepr}}}%
10493 }{\bidi@@diagbox@triple@setbox@SE@tabular@ii@iii}{-}{-}
10494 \newcommand*{\bidi@@diagbox@triple@setbox@SE@tabular@i}{%
10495     \if@RTL
10496         \begin{tabular}{@{}r@{\hspace{\diagbox@insepl}}
10497     \else
10498         \begin{tabular}{@{\hspace{\diagbox@insepl}}l@{}}
10499     \fi
10500 }
10501 \newcommand*{\bidi@@diagbox@triple@setbox@SE@tabular@ii@iii}{%
10502     \if@RTL
10503         \begin{tabular}{@{\hspace{\diagbox@insepr}}l@{}}
10504     \else
10505         \begin{tabular}{@{}r@{\hspace{\diagbox@insepr}}
10506     \fi
10507 }
10508 \let\diagbox@triple@setbox@NE\diagbox@triple@setbox@SE
10509 \bidi@patchcmd{\diagbox@double@pict@SE}{%
10510     \diagbox@setlinecolor
10511     \Line(0,\strip@pt\diagbox@ht)(\strip@pt\diagbox@wd,0)%
10512 }{%
10513     {\diagbox@setlinecolor
10514     \Line(0,\strip@pt\diagbox@ht)(\strip@pt\diagbox@wd,0)}%
10515 }{-}{-}
10516 \let\diagbox@double@pict@NW\diagbox@double@pict@SE
10517 \bidi@patchcmd{\diagbox@double@pict@NE}{%
10518     \diagbox@setlinecolor
10519     \Line(0,0)(\strip@pt\diagbox@wd,\strip@pt\diagbox@ht)%

```



```

10520 }{%
10521   {\diagbox@setlinecolor
10522     \Line(0,0)(\strip@pt\diagbox@wd,\strip@pt\diagbox@ht)}%
10523 }{}{}
10524 \let\diagbox@double@pict@SW\diagbox@double@pict@NE
10525 \bidi@patchcmd{\diagbox@triple@pict@NW}{%
10526   \diagbox@setlinecolor
10527   \Line(0,\yym)(\x,0)
10528   \Line(\xm,\y)(\x,0)%
10529 }{%
10530   {\diagbox@setlinecolor
10531     \Line(0,\yym)(\x,0)
10532     \Line(\xm,\y)(\x,0)}%
10533 }{}{}
10534 \bidi@patchcmd{\diagbox@triple@pict@NE}{%
10535   \diagbox@setlinecolor
10536   \Line(0,0)(\xxm,\y)
10537   \Line(0,0)(\x,\yym)%
10538 }{%
10539   {\diagbox@setlinecolor
10540     \Line(0,0)(\xxm,\y)
10541     \Line(0,0)(\x,\yym)}%
10542 }{}{}
10543 \bidi@patchcmd{\diagbox@triple@pict@SW}{%
10544   \diagbox@setlinecolor
10545   \Line(0,\ym)(\x,\y)
10546   \Line(\xm,0)(\x,\y)%
10547 }{%
10548   {\diagbox@setlinecolor
10549     \Line(0,\ym)(\x,\y)
10550     \Line(\xm,0)(\x,\y)}%
10551 }{}{}
10552 \bidi@patchcmd{\diagbox@triple@pict@SE}{%
10553   \diagbox@setlinecolor
10554   \Line(0,\y)(\xxm,0)
10555   \Line(0,\y)(\x,\ym)%
10556 }{%
10557   {\diagbox@setlinecolor
10558     \Line(0,\y)(\xxm,0)
10559     \Line(0,\y)(\x,\ym)}%
10560 }{}{}

```

## 77 File draftwatermark-xetex-bidi.def

```

10561 \ProvidesFile{draftwatermark-xetex-bidi.def}[2010/07/25 v0.2 bidi adaptations for draftwater
10562 \renewcommand\SetWatermarkText[1]{%
10563   \def\sc@wm@text{\if@RTLmain\beginR\fi#1\if@RTLmain\endR\fi}}

```

## 78 File eso-pic-xetex-bidi.def

```

10564 \ProvidesFile{eso-pic-xetex-bidi.def}[2022/02/18 v0.4 bidi adaptations for eso-pic package f
10565 \renewcommand\AtPageLowerLeft[1]{\AtPageUpperLeft{%
10566   \put(\if@RTLmain\paperwidth\else 0\fi,-\paperheight){#1}}}
10567

```



```

10568 \ESO@isMEMOIR{%
10569   \renewcommand\AtTextUpperLeft[1]{%
10570     \begingroup
10571       \ifodd\c@page
10572         \if@RTLmain
10573           \ESO@tempdima=\paperwidth
10574           \advance\ESO@tempdima-\textwidth
10575           \advance\ESO@tempdima-\spinemargin
10576         \else
10577           \ESO@tempdima=\spinemargin
10578         \fi
10579       \else
10580         \if@RTLmain
10581           \ESO@tempdima=\spinemargin
10582         \else
10583           \ESO@tempdima=\paperwidth
10584           \advance\ESO@tempdima-\textwidth
10585           \advance\ESO@tempdima-\spinemargin
10586         \fi
10587       \fi
10588       \ESO@tempdimb=-\uppermargin
10589       \AtPageUpperLeft{%
10590         \put(\if@RTLmain-\textwidth-\fi\ESO@tempdima,\ESO@tempdimb){#1}%
10591       }%
10592     \endgroup
10593   }
10594 }{%
10595   \renewcommand\AtTextUpperLeft[1]{%
10596     \begingroup
10597       \ESO@tempdima=1in\relax
10598       \if@twoside
10599         \ifodd\c@page
10600           \if@RTLmain
10601             \advance\ESO@tempdima\evensidemargin
10602           \else
10603             \advance\ESO@tempdima\oddsidemargin
10604           \fi
10605         \else
10606           \if@RTLmain
10607             \advance\ESO@tempdima\oddsidemargin
10608           \else
10609             \advance\ESO@tempdima\evensidemargin
10610           \fi
10611         \fi
10612       \else
10613         \advance\ESO@tempdima\oddsidemargin
10614       \fi
10615       \ESO@tempdimb=-1in\relax
10616       \advance\ESO@tempdimb-\topmargin
10617       \advance\ESO@tempdimb-\headheight
10618       \advance\ESO@tempdimb-\headsep
10619       \AtPageUpperLeft{%
10620         \put(\if@RTLmain-\textwidth-\fi\ESO@tempdima,\ESO@tempdimb){#1}%
10621       }%

```



```

10622 \endgroup
10623 }
10624 }

```

## 79 File empheq-xetex-bidi.def

```

10625 \ProvidesFile{empheq-xetex-bidi.def}[2018/01/08 v0.2 bidi adaptations for empheq package for
10626 \MHInternalSyntaxOn
10627 \def\EQ_tag_plus_endmark:{%
10628 \iftagsleft@
10629 \gdef\maketag@@@##1{%
10630 \hfuzz\displaywidth
10631 \ifRTL\makebox[\widthof{##1}][r]{%
10632 \hbox to \displaywidth{\m@th\normalfont##1\hss
10633 \raisebox{-\dp\EQ_mathdisplay_box
10634 -\depthof{\EQ_outerbox:}}{
10635 {\PotEndMark{\hss}}}}
10636 \else\makebox[\widthof{##1}][l]{%
10637 \hbox to \displaywidth{\m@th\normalfont##1\hss
10638 \raisebox{-\dp\EQ_mathdisplay_box
10639 -\depthof{\EQ_outerbox:}}{
10640 {\PotEndMark{\hss}}}}\fi}%
10641 \MH_else:
10642 \gdef\maketag@@@##1{%
10643 \hbox{\m@th\normalfont##1\llap{\hss\PotEndMark{%
10644 \settoheight{\@tempdima}{\@nameuse{\InTheoType Symbol}}}%
10645 \MH_addtolength:dn \@tempdima
10646 {\g_EQ_bottomtag_depth_dim+\mintagvsep}
10647 \setlength{\@tempdimb}
10648 {\g_EQ_bottomrow_depth_dim+\depthof{\EQ_outerbox:}}
10649 +\depthof{\EQ_innerbox:}}
10650 \MH_if_dim:w \@tempdima>\@tempdimb
10651 \MH_setlength:dn \@tempdima{-\dp\EQ_mathdisplay_box
10652 -\@tempdima+\g_EQ_bottomrow_depth_dim}
10653 \addtolength{\@tempdima}{\depthof{\EQ_innerbox:}}}%
10654 \def\EQ_next:{\raisebox{\@tempdima}}%
10655 \MH_else:
10656 \def\EQ_next:{
10657 \raisebox{-\dp\EQ_mathdisplay_box
10658 -\depthof{\EQ_outerbox:}}}%
10659 \MH_fi:\EQ_next:}}}%
10660 \MH_fi:}
10661 \def\EQ_post_process:{%
10662 \EQ_initialize:
10663 \EQ_begin_equation:
10664 \MH_if_boolean:nT {outer_mult}{
10665 \setkeys{MT_options_name:}{
10666 firstline-afterskip=Opt,
10667 lastline-preskip=Opt,
10668 multlined-width=Opt,
10669 }
10670 \ifodd \l_EQ_alignmentmode_int
10671 \setkeys{MT_options_name:}{multlined-pos=b}
10672 \MH_else:

```



```

10673     \setkeys{\MT_options_name:}{multlined-pos=t}
10674     \MH_fi:
10675     \g@addto@macro\EQ_complete_mathdisplay:{
10676         \begin{MTmultlined}\relax
10677     }
10678     \g@addto@macro\EQ_complete_mathdisplay:\EQ_mathbody:
10679     \MH_if_boolean:nT {outer_mult}{
10680         \g@addto@macro\EQ_complete_mathdisplay:{\end{MTmultlined}}
10681     }
10682     \EQ_end_equation:
10683     \edef\EQ_hyperref_link_fint{\number\Hy@linkcounter}
10684     \savecounters@
10685     \EQ_typeset_tags:
10686     \edef\l_EQ_equation_fint{\number\c@equation}
10687     \restorecounters@
10688     \Hy@linkcounter=\EQ_hyperref_link_fint
10689     \settowidth\l_EQ_totalwidth_dim{%
10690         $\EQ_left_side:\EQ_innerbox:{}\EQ_right_side:$}%
10691     \MH_if_boolean:nTF {outer_mult}
10692     { \def\EQ_next:{_mult} }
10693     { \def\EQ_next:{} }
10694     \@nameuse{EQ_modify_linewidth_
10695         \romannumeral\l_EQ_equationtype_int\EQ_next: :}%
10696     \EQ_typeset_display:
10697     \@nameuse{EQ_find_displaywidth_
10698         \romannumeral\l_EQ_equationtype_int\EQ_next: :}%
10699     \MH_addtolength:dn
10700     \l_EQ_totalwidth_dim{\l_EQ_displaywidth_dim}
10701     \savebox\EQ_mathdisplay_box[\l_EQ_totalwidth_dim][c]{%
10702         $\EQ_left_side:
10703         \EQ_innerbox:{%
10704             \MH_if_case:w \l_EQ_alignmentmode_int\MH_or:
10705             \makebox[\l_EQ_displaywidth_dim][c]
10706             {\usebox{\EQ_mathdisplay_box}}}%
10707         \MH_or:
10708             \makebox[\l_EQ_displaywidth_dim][c]
10709             {\usebox{\EQ_mathdisplay_box}}}%
10710         \MH_or:
10711             \if@RTL\makebox[\l_EQ_displaywidth_dim][r]{%
10712                 \MH_if_num:w \l_EQ_equationtype_int=5 \MH_else:
10713                     \MH_if_num:w \l_EQ_equationtype_int=6 \MH_else:
10714                         \kern-\@mathmargin
10715                         \MH_fi:
10716                         \MH_fi:
10717                         \usebox{\EQ_mathdisplay_box}}%
10718                 \else\makebox[\l_EQ_displaywidth_dim][l]{%
10719                     \MH_if_num:w \l_EQ_equationtype_int=5 \MH_else:
10720                         \MH_if_num:w \l_EQ_equationtype_int=6 \MH_else:
10721                             \kern-\@mathmargin
10722                             \MH_fi:
10723                             \MH_fi:
10724                             \usebox{\EQ_mathdisplay_box}}\fi%
10725                 \MH_or:
10726                 \if@RTL\makebox[\l_EQ_displaywidth_dim][r]{%

```



```

10727      \MH_if_num:w \l_EQ_equationtype_int=5 \MH_else:
10728      \MH_if_num:w \l_EQ_equationtype_int=6 \MH_else:
10729      \kern-\@mathmargin
10730      \MH_fi:
10731      \MH_fi:
10732      \usebox{\EQ_mathdisplay_box}}
10733      \else\makebox[\l_EQ_displaywidth_dim][l]{%
10734      \MH_if_num:w \l_EQ_equationtype_int=5 \MH_else:
10735      \MH_if_num:w \l_EQ_equationtype_int=6 \MH_else:
10736      \kern-\@mathmargin
10737      \MH_fi:
10738      \MH_fi:
10739      \usebox{\EQ_mathdisplay_box}}\fi%
10740      \MH_fi:}%
10741      \EQ_right_side:$}%
10742      \begin{AmSequation*}
10743      \@nameuse{EQ_place_display_
10744      \romannumeral\l_EQ_equationtype_int\EQ_next: :}
10745      \MH_if_dim:w \g_EQ_widesttag_dim>\z@
10746      \MH_set_boolean_T:n {show_manual_tags}
10747      \MH_if_case:w \l_EQ_alignmentmode_int
10748      \MH_or: \if@RTL\EQ_place_tag:N l\else\EQ_place_tag:N r\fi %\#1
10749      \MH_or: \if@RTL\EQ_place_tag:N r\else\EQ_place_tag:N l\fi %\#2
10750      \MH_or: \if@RTL\EQ_place_tag:N l\else\EQ_place_tag:N r\fi %\#3
10751      \MH_or: \if@RTL\EQ_place_tag:N r\else\EQ_place_tag:N l\fi %\#4
10752      \MH_fi:
10753      \MH_fi:
10754      \end{AmSequation*}
10755      \global\c@equation=\l_EQ_equation_fint\relax
10756 }
10757 \AtBeginDocument{%
10758   \ifpackageloaded{fancybox}{%
10759     \ifpackageloaded{color}{\definecolor{shadowcolor}{rgb}{0,0,0}}%
10760     {\renewcommand*\textcolor[2]{\normalcolor{#2}}}%
10761     \renewcommand*{shadowbox}{%
10762       \@ifstar{\MH_set_boolean_T:n {shadowbox_star}
10763         \VerbBox\EQ_shadowbox:n}
10764       {\MH_set_boolean_F:n {shadowbox_star}
10765         \VerbBox\EQ_shadowbox:n}}
10766     \def\EQ_shadowbox:n #1{%
10767       \sbox{\z@}{\fbox{#1}}%
10768       \MH_if_boolean:nTF {shadowbox_star}{
10769         \MH_setlength:dn \@tempdima{\z@}%
10770       }{
10771         \MH_setlength:dn \@tempdima{\dp\z@+\shadowsize}%
10772       }
10773       \raisebox{\@tempdima}{%
10774         \if@RTL\makebox[\z@][r]{%
10775           \kern\shadowsize \textcolor{shadowcolor}{%
10776             \rule[-\dp\z@-\shadowsize]{\wd\z@}{\shadowsize}}%
10777         }%
10778       \else\makebox[\z@][l]{%
10779         \kern\shadowsize \textcolor{shadowcolor}{%
10780           \rule[-\dp\z@-\shadowsize]{\wd\z@}{\shadowsize}}%

```



```

10781      }\fi%
10782      \usebox\z@\textcolor{shadowcolor}{%
10783        \rule[-\dp\z@-\shadowsize]{\shadowsize}{\ht\z@+\dp\z@}}}%
10784    }-%
10785  }
10786  \MHInternalSyntaxOff

```

## 80 File extarticle-xetex-bidi.def

```

10787 \ProvidesFile{extarticle-xetex-bidi.def}[2017/06/09 v0.4 bidi adaptations for extarticle cla
10788 \renewcommand*\l@section[2]{%
10789   \ifnum \c@tocdepth >\z@
10790     \addpenalty\@secpenalty
10791     \addvspace{1.0em \@plus\p@}%
10792     \setlength\@tempdima{1.5em}%
10793     \begingroup
10794       \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
10795       \parfillskip -\@pnumwidth
10796       \leavevmode \bfseries
10797       \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
10798       \hskip -\if@RTL\rightskip\else\leftskip\fi
10799       #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
10800     \endgroup
10801   \fi}
10802 \renewcommand*\l@part[2]{%
10803   \ifnum \c@tocdepth >-2\relax
10804     \addpenalty\@secpenalty
10805     \addvspace{2.25em \@plus\p@}%
10806     \begingroup
10807       \setlength\@tempdima{3em}%
10808       \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
10809       \parfillskip -\@pnumwidth
10810       {\leavevmode
10811         \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
10812       \nobreak
10813     \endgroup
10814   \fi}
10815 \def\@part[#1]#2{%
10816   \ifnum \c@secnumdepth >\m@ne
10817     \refstepcounter{part}%
10818     \addcontentsline{toc}{part}{\thepart\hspace{1em}#1}%
10819   \else
10820     \addcontentsline{toc}{part}{#1}%
10821   \fi
10822   {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi
10823     \interlinepenalty \@M
10824     \normalfont
10825     \ifnum \c@secnumdepth >\m@ne
10826       \Large\bfseries \partname~\thepart
10827     \par\nobreak
10828   \fi
10829   \huge \bfseries #2%
10830   \markboth{}{}\par}%
10831   \nobreak

```



```

10832 \vskip 3ex
10833 \@afterheading}
10834 \def\@spart#1{%
10835   {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi
10836    \interlinepenalty \@M
10837    \normalfont
10838    \huge \bfseries #1\par}%
10839   \nobreak
10840   \vskip 3ex
10841   \@afterheading}
10842 \renewenvironment{thebibliography}[1]
10843   {\section*{\refname
10844     \@mkboth{\MakeUppercase\refname}{\MakeUppercase\refname}}%
10845     \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
10846     \bidi@thebibliography@font@hook%
10847     \list{\@biblabel{\@arabic\c@enumiv}}%
10848       {\settowidth\labelwidth{\@biblabel{#1}}%
10849        \leftmargin\labelwidth
10850        \advance\leftmargin\labelsep
10851        \@openbib@code
10852        \usecounter{enumiv}%
10853        \let\p@enumiv\@empty
10854        \renewcommand\theenumiv{\@arabic\c@enumiv}}%
10855     \sloppy\clubpenalty4000\widowpenalty4000%
10856     \sfcode\.\@m}
10857   {\def\@noitemerr
10858     {\@latex@warning{Empty `thebibliography' environment}}}%
10859   \endlist}
10860 \renewcommand\left@footnoterule{%
10861   \kern-3\p@
10862   \hrule\@width.4\columnwidth
10863   \kern2.6\p@}
10864 \renewcommand\right@footnoterule{%
10865   \kern-3\p@
10866   \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
10867   \kern2.6\p@}
10868   \if@titlepage
10869   \renewcommand\maketitle{\begin{titlepage}%
10870     \let\footnotesize\small
10871     \let\right@footnoterule\relax
10872     \let\left@footnoterule\relax
10873     \let\textwidth\footnoterule\relax
10874     \let \footnote \thanks
10875     \null\vfil
10876     \vskip 60\p@
10877     \begin{center}%
10878       {\LARGE \@title \par}%
10879       \vskip 3em%
10880       {\large
10881        \lineskip .75em%
10882        \begin{tabular}[t]{c}%
10883          \@author
10884          \end{tabular}\par}%
10885       \vskip 1.5em%

```



```

10886     {\large \@date \par}%           % Set date in \large size.
10887 \end{center}\par
10888 \@thanks
10889 \vfil\null
10890 \end{titlepage}%
10891 \setcounter{footnote}{0}%
10892 \global\let\thanks\relax
10893 \global\let\maketitle\relax
10894 \global\let\@thanks\@empty
10895 \global\let\@author\@empty
10896 \global\let\@date\@empty
10897 \global\let\@title\@empty
10898 \global\let\title\relax
10899 \global\let\author\relax
10900 \global\let\date\relax
10901 \global\let\and\relax
10902 }
10903 \else
10904 \renewcommand\maketitle{\par
10905   \begingroup
10906     \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
10907     \def\@makefnmark{\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
10908     \long\def\@makefntext##1{\parindent 1em\noindent
10909       \hb@xt@1.8em{%
10910         \hss\@textsuperscript{\normalfont\@thefnmark}}##1}%
10911     \if@twocolumn
10912       \ifnum \col@number=\@one
10913         \@maketitle
10914       \else
10915         \twocolumn[\@maketitle]%
10916       \fi
10917     \else
10918       \newpage
10919       \global\@topnum\z@   % Prevents figures from going at top of page.
10920       \@maketitle
10921     \fi
10922     \thispagestyle{plain}\@thanks
10923   \endgroup
10924   \setcounter{footnote}{0}%
10925   \global\let\thanks\relax
10926   \global\let\maketitle\relax
10927   \global\let\@maketitle\relax
10928   \global\let\@thanks\@empty
10929   \global\let\@author\@empty
10930   \global\let\@date\@empty
10931   \global\let\@title\@empty
10932   \global\let\title\relax
10933   \global\let\author\relax
10934   \global\let\date\relax
10935   \global\let\and\relax
10936 }
10937 \def\@maketitle{%
10938   \newpage
10939   \null

```



```

10940 \vskip 2em%
10941 \begin{center}%
10942 \let \footnote \thanks
10943 {\LARGE \@title \par}%
10944 \vskip 1.5em%
10945 {\large
10946 \lineskip .5em%
10947 \begin{tabular}[t]{c}%
10948 \@author
10949 \end{tabular}\par}%
10950 \vskip 1em%
10951 {\large \@date}%
10952 \end{center}%
10953 \par
10954 \vskip 1.5em}
10955 \fi
10956 \renewcommand\thesubsection {\thesection\@SepMark\@arabic\c@section}
10957 \renewcommand\thesubsubsection{\thesubsection \@SepMark\@arabic\c@subsubsection}
10958 \renewcommand\theparagraph {\thesubsubsection\@SepMark\@arabic\c@paragraph}
10959 \renewcommand\thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}%%

```

## 81 File extbook-xetex-bidi.def

```

10960 \ProvidesFile{extbook-xetex-bidi.def}[2017/06/09 v0.4 bidi adaptations for extbook class for
10961 \if@titlepage
10962 \renewcommand\maketitle{\begin{titlepage}%
10963 \let\footnotesize\small
10964 \let\right@footnoterule\relax
10965 \let\left@footnoterule\relax
10966 \let\textwidth@footnoterule\relax
10967 \let \footnote \thanks
10968 \let \LTRfootnote \LTRthanks
10969 \let \RTLfootnote \RTLthanks
10970 \null\vfil
10971 \vskip 60\p@
10972 \begin{center}%
10973 {\LARGE \@title \par}%
10974 \vskip 3em%
10975 {\large
10976 \lineskip .75em%
10977 \begin{tabular}[t]{c}%
10978 \@author
10979 \end{tabular}\par}%
10980 \vskip 1.5em%
10981 {\large \@date \par}% % Set date in \large size.
10982 \end{center}\par
10983 \@thanks
10984 \vfil\null
10985 \end{titlepage}%
10986 \setcounter{footnote}{0}%
10987 \global\let\thanks\relax
10988 \global\let\LTRthanks\relax
10989 \global\let\RTLthanks\relax
10990 \global\let\maketitle\relax

```



```

10991 \global\let\@thanks\@empty
10992 \global\let\@author\@empty
10993 \global\let\@date\@empty
10994 \global\let\@title\@empty
10995 \global\let\title\relax
10996 \global\let\author\relax
10997 \global\let\date\relax
10998 \global\let\and\relax
10999 }
11000 \else
11001 \renewcommand\maketitle{\par
11002 \begingroup
11003 \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
11004 \def\@makefnmark{\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
11005 \long\def\@makefntext##1{\parindent 1em\noindent
11006 \hb@xt@1.8em{%
11007 \hss\@textsuperscript{\normalfont\@thefnmark}}##1}%
11008 \if@twocolumn
11009 \ifnum \col@number=\@one
11010 \@maketitle
11011 \else
11012 \twocolumn[\@maketitle]%
11013 \fi
11014 \else
11015 \newpage
11016 \global\@topnum\z@ % Prevents figures from going at top of page.
11017 \@maketitle
11018 \fi
11019 \thispagestyle{plain}\@thanks
11020 \endgroup
11021 \setcounter{footnote}{0}%
11022 \global\let\thanks\relax
11023 \global\let\LTRthanks\relax
11024 \global\let\RTLthanks\relax
11025 \global\let\maketitle\relax
11026 \global\let\@maketitle\relax
11027 \global\let\@thanks\@empty
11028 \global\let\@author\@empty
11029 \global\let\@date\@empty
11030 \global\let\@title\@empty
11031 \global\let\title\relax
11032 \global\let\author\relax
11033 \global\let\date\relax
11034 \global\let\and\relax
11035 }
11036 \def\@maketitle{%
11037 \newpage
11038 \null
11039 \vskip 2em%
11040 \begin{center}%
11041 \let \footnote \thanks
11042 \let \LTRfootnote \LTRthanks
11043 \let \RTLfootnote \RTLthanks
11044 {\LARGE \@title \par}%

```



```

11045 \vskip 1.5em%
11046 {\large
11047 \lineskip .5em%
11048 \begin{tabular}{t}{c}%
11049 \author
11050 \end{tabular}\par}%
11051 \vskip 1em%
11052 {\large \@date}%
11053 \end{center}%
11054 \par
11055 \vskip 1.5em}
11056 \fi
11057 \renewcommand*\l@part[2]{%
11058 \ifnum \c@tocdepth >-2\relax
11059 \addpenalty{-\@highpenalty}%
11060 \addvspace{2.25em \@plus\p@}%
11061 \begingroup
11062 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
11063 \parfillskip -\@pnumwidth
11064 {\leavevmode
11065 \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
11066 \nobreak
11067 \global\@nobreaktrue
11068 \everypar{\global\@nobreakfalse\everypar{}}%
11069 \endgroup
11070 \fi}
11071 \renewcommand\theequation
11072 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@equation}
11073 \renewcommand \thefigure
11074 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@figure}
11075 \renewcommand \thetable
11076 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@table}
11077 \renewcommand \thechapter {\@arabic\c@chapter}
11078 \renewcommand \thesection {\thechapter\@SepMark\@arabic\c@section}
11079 \renewcommand \thesubsection {\thesection\@SepMark\@arabic\c@subsection}
11080 \renewcommand \thesubsubsection {\thesubsection \@SepMark\@arabic\c@subsubsection}
11081 \renewcommand \theparagraph {\thesubsubsection\@SepMark\@arabic\c@paragraph}
11082 \renewcommand \thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}
11083 \def\@makechapterhead#1{%
11084 \vspace*{50\p@}%
11085 {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi \normalfont
11086 \ifnum \c@secnumdepth >\m@ne
11087 \if@mainmatter
11088 \huge\bfseries \@chapapp\space \thechapter
11089 \par\nobreak
11090 \vskip 20\p@
11091 \fi
11092 \fi
11093 \interlinepenalty\@M
11094 \Huge \bfseries #1\par\nobreak
11095 \vskip 40\p@
11096 }}
11097
11098 \def\@makeschapterhead#1{%

```



```

11099 \vspace*{50\p@}%
11100 {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi
11101 \normalfont
11102 \interlinepenalty\@M
11103 \Huge \bfseries #1\par\nobreak
11104 \vskip 40\p@
11105 }}
11106 \renewcommand\backmatter{%
11107 \if@openright
11108 \cleardoublepage
11109 \else
11110 \clearpage
11111 \fi
11112 \@mainmatterfalse}
11113 \renewenvironment{thebibliography}[1]
11114 {\chapter*{\bibname
11115 \@mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}}%
11116 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
11117 \bidi@thebibliography@font@hook%
11118 \list{\@biblabel{\@arabic\c@enumiv}}%
11119 {\settowidth\labelwidth{\@biblabel{#1}}%
11120 \leftmargin\labelwidth
11121 \advance\leftmargin\labelsep
11122 \@openbib@code
11123 \usecounter{enumiv}%
11124 \let\p@enumiv\@empty
11125 \renewcommand\theenumiv{\@arabic\c@enumiv}}%
11126 \sloppy
11127 \clubpenalty4000
11128 \@clubpenalty \clubpenalty
11129 \widowpenalty4000%
11130 \sfcode`. \@m}
11131 {\def\@noitemerr
11132 {\@latex@warning{Empty `thebibliography' environment}}}%
11133 \endlist}

```

## 82 File extletter-xetex-bidi.def

```

11134 \ProvidesFile{extletter-xetex-bidi.def}[2015/11/14 v0.2 bidi adaptations for extletter class]
11135 \renewcommand*{\opening}[1]{\ifx\@empty\fromaddress
11136 \thispagestyle{firstpage}%
11137 {\if@RTL\raggedright\else\raggedleft\fi\@date\par}%
11138 \else % home address
11139 \thispagestyle{empty}%
11140 {\if@RTL\raggedright\begin{tabular}{r@{}}\else\raggedleft\begin{tabular}{l@{}}\fi\ignore
11141 \fromaddress \*[2\parskip]%
11142 \@date \end{tabular}\par}%
11143 \fi
11144 \vspace{2\parskip}%
11145 {\if@RTL\raggedleft\else\raggedright\fi \toname \[2\parskip] \toaddress \par}%
11146 \vspace{2\parskip}%
11147 #1\par\nobreak}
11148 \renewcommand{\closing}[1]{\par\nobreak\vspace{\parskip}%
11149 \stopbreaks

```



```

11150 \noindent
11151 \ifx\@empty\fromaddress\else
11152 \hspace*{\longindentation}\fi
11153 \parbox{\indentedwidth}{\if@RTL\raggedleft\else\raggedright\fi
11154 \ignorespaces #1\}[6\medskipamount]%
11155 \ifx\@empty\fromsig
11156 \fromname
11157 \else \fromsig \fi\strut}%
11158 \par}
11159 \renewcommand\left@footnoterule{%
11160 \kern-\p@
11161 \hrule \@width .4\columnwidth
11162 \kern .6\p@}
11163 \renewcommand\right@footnoterule{%
11164 \kern-\p@
11165 \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
11166 \kern .6\p@}

```

### 83 File extrafootnotefeatures-xetex-bidi.def

```

11167 \ProvidesFile{extrafootnotefeatures-xetex-bidi.def}[2018/10/11 v1.7 bidi extra footnote feat
11168 \newif\if@bidi@void@footins
11169 \newif\if@bidi@void@mpfootins
11170 \newcommand*{\@bidi@before@Hy@hyperfootnotes}{%
11171 \if@bidi@csundef\ifHy@hyperfootnotes}{-}{%
11172 \if@bidi@csundef{HLTR@LTrfootnotetext}{-}{%
11173 \ifHy@hyperfootnotes
11174 \let\@H@footnotetext\@footnotetext
11175 \let\@HLTR@LTrfootnotetext\@LTrfootnotetext
11176 \let\@HRTL@RTLfootnotetext\@RTLfootnotetext
11177 \let\@H@mpfootnotetext\@mpfootnotetext
11178 \let\@HLTR@mpLTrfootnotetext\@mpLTrfootnotetext
11179 \let\@HRTL@mpRTLfootnotetext\@mpRTLfootnotetext
11180 \fi
11181 }%
11182 }%
11183 }
11184 \newcommand*{\@bidi@after@Hy@hyperfootnotes}{%
11185 \if@bidi@csundef\ifHy@hyperfootnotes}{-}{%
11186 \if@bidi@csundef{HLTR@LTrfootnotetext}{-}{%
11187 \ifHy@hyperfootnotes
11188 \let\H@footnotetext\@footnotetext
11189 \let\@footnotetext\@H@footnotetext
11190 \let\HLTR@LTrfootnotetext\@LTrfootnotetext
11191 \let\@LTrfootnotetext\@HLTR@LTrfootnotetext
11192 \let\HRTL@RTLfootnotetext\@RTLfootnotetext
11193 \let\@RTLfootnotetext\@HRTL@RTLfootnotetext
11194 \let\H@mpfootnotetext\@mpfootnotetext
11195 \let\@mpfootnotetext\@H@mpfootnotetext
11196 \let\HLTR@mpLTrfootnotetext\@mpLTrfootnotetext
11197 \let\@mpLTrfootnotetext\@HLTR@mpLTrfootnotetext
11198 \let\HRTL@mpRTLfootnotetext\@mpRTLfootnotetext
11199 \let\@mpRTLfootnotetext\@HRTL@mpRTLfootnotetext
11200 \fi

```



```

11201 }%
11202 }%
11203 }
11204 \let\autofooterule\relax
11205 \let\rightfootnoterule\relax
11206 \let\leftfootnoterule\relax
11207 \let\textwidthfootnoterule\relax
11208 \let\LRfootnoterule\relax
11209 \def\footnoterule{\kern-3\p@
11210   \hrule \@width \columnwidth \kern 2.6\p@}
11211 \newcommand{\@preamnormalfmt}{%
11212   \parindent 1em%
11213   \noindent
11214 }
11215 \newcommand{\@normalfootfmt}[1]{%
11216   \@preamnormalfmt
11217   \footfootmark
11218   \rule{z@\footnotesep}{\ignorespaces{\foottextfont #1}%
11219     \@finalstrut\strutbox
11220 }
11221 \newcommand{\@normalRTLfootfmt}[1]{%
11222   \@preamnormalfmt
11223   \RTLfootfootmark
11224   \rule{z@\footnotesep}{\ignorespaces{\RTLfoottextfont #1}%
11225     \@finalstrut\strutbox
11226 }
11227 \newcommand{\@normalLTRfootfmt}[1]{%
11228   \@preamnormalfmt
11229   \LTRfootfootmark
11230   \rule{z@\footnotesep}{\ignorespaces{\LTRfoottextfont #1}%
11231     \@finalstrut\strutbox
11232 }
11233 \renewcommand{\@footnotetext}[1]{%
11234   \insert\footins{%
11235     \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
11236     \def\baselinestretch{\m@m@footnote@spacing}%
11237     \reset@font
11238     \foottextfont
11239     \@preamfntext
11240     \hsize\columnwidth
11241     \protected@edef\@currentlabel{%
11242       \csname p@footnote\endcsname\@thefnmark}%
11243     \color@begingroup
11244     \@normalfootfmt{#1}%
11245     \color@endgroup}%
11246     \m@m@mmf@prepare}
11247 \renewcommand{\@RTLfootnotetext}[1]{%
11248   \insert\footins{%
11249     \@RTLtrue%
11250     \def\baselinestretch{\m@m@footnote@spacing}%
11251     \reset@font
11252     \RTLfoottextfont
11253     \@preamfntext
11254     \hsize\columnwidth

```



```

11255 \protected@edef\@currentlabel{%
11256 \csname p@footnote\endcsname\@thefnmark}%
11257 \color@begingroup
11258 \@normalRTLfootfmt{#1}%
11259 \color@endgroup}%
11260 \m@mmf@prepare}
11261 \renewcommand{\@LTRfootnotetext}[1]{%
11262 \insert\footins{%
11263 \@RTLfalse%
11264 \def\baselinestretch{\m@m@footnote@spacing}%
11265 \reset@font
11266 \LTRfoottextfont
11267 \@preamfntext
11268 \hsize\columnwidth
11269 \protected@edef\@currentlabel{%
11270 \csname p@footnote\endcsname\@thefnmark}%
11271 \color@begingroup
11272 \@normalLTRfootfmt{#1}%
11273 \color@endgroup}%
11274 \m@mmf@prepare}
11275 \renewcommand{\@mpfootnotetext}[1]{%
11276 \global\setbox\@mpfootins\vbox{\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
11277 \unvbox\@mpfootins
11278 \def\baselinestretch{\m@m@footnote@spacing}%
11279 \reset@font%
11280 \foottextfont \hsize\columnwidth \@parboxrestore
11281 \protected@edef\@currentlabel{%
11282 \csname p@mpfootnote\endcsname\@thefnmark}%
11283 \color@begingroup
11284 \@normalfootfmt{#1}%
11285 \color@endgroup}}
11286 \renewcommand{\@mplTRfootnotetext}[1]{%
11287 \global\setbox\@mpfootins\vbox{\@RTLfalse%
11288 \unvbox\@mpfootins
11289 \def\baselinestretch{\m@m@footnote@spacing}%
11290 \reset@font%
11291 \LTRfoottextfont \hsize\columnwidth \@parboxrestore
11292 \protected@edef\@currentlabel{%
11293 \csname p@mpfootnote\endcsname\@thefnmark}%
11294 \color@begingroup
11295 \@normalLTRfootfmt{#1}%
11296 \color@endgroup}}
11297 \renewcommand{\@mpRTLfootnotetext}[1]{%
11298 \global\setbox\@mpfootins\vbox{\@RTLtrue%
11299 \unvbox\@mpfootins
11300 \def\baselinestretch{\m@m@footnote@spacing}%
11301 \reset@font%
11302 \RTLfoottextfont \hsize\columnwidth \@parboxrestore
11303 \protected@edef\@currentlabel{%
11304 \csname p@mpfootnote\endcsname\@thefnmark}%
11305 \color@begingroup
11306 \@normalRTLfootfmt{#1}%
11307 \color@endgroup}}
11308 \let\m@mold@footnotetext\@footnotetext

```



```

11309 \let\m@mold@LTRfootnotetext\@LTRfootnotetext
11310 \let\m@mold@RTLfootnotetext\@RTLfootnotetext
11311 \let\m@mold@mpfootnotetext\@mpfootnotetext
11312 \let\m@mold@mpLTRfootnotetext\@mpLTRfootnotetext
11313 \let\m@mold@mpRTLfootnotetext\@mpRTLfootnotetext
11314 \bidi@ensure@newcommand{\normalfootnotes}{%
11315   \@bidi@before@Hy@hyperfootnotes
11316   \let\@footnotetext\m@mold@footnotetext
11317   \let\@LTRfootnotetext\m@mold@LTRfootnotetext
11318   \let\@RTLfootnotetext\m@mold@RTLfootnotetext
11319   \let\@mpfootnotetext\m@mold@mpfootnotetext
11320   \let\@mpLTRfootnotetext\m@mold@mpLTRfootnotetext
11321   \let\@mpRTLfootnotetext\m@mold@mpRTLfootnotetext
11322   \@bidi@after@Hy@hyperfootnotes
11323   \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
11324 }
11325 \@ifclassloaded{memoir}{\let\plainfootnotes\normalfootnotes}{%
11326 \bidi@ensure@newcommand*\@RTLcolumnfootnotes{\@RTLcolumnfootnotestruer}
11327 \bidi@ensure@newcommand*\@LTRcolumnfootnotes{\@RTLcolumnfootnotesfalse}
11328 \bidi@ensure@newcommand*\@setSingleSpace{1}{%
11329   \def\m@m@singlespace{#1}%
11330   \def\m@m@footnote@spacing{#1}%
11331   \def\m@m@float@spacing{#1} %
11332 }
11333 \setSingleSpace{1}
11334 \bidi@ensure@newcommand*\@multiplefootnotemarker{3sp}
11335 \bidi@ensure@newcommand*\@m@m@prepare{%
11336   \kern-\@multiplefootnotemarker
11337   \kern\@multiplefootnotemarker\relax}
11338 \bidi@ensure@newlength{\footmarkwidth}
11339 \bidi@ensure@newcommand*\@footmarkstyle{1}{\def\footscript##1{#1}}
11340 \bidi@ensure@newcommand*\@LTRfootmarkstyle{1}{\def\LTRfootscript##1{#1}}
11341 \bidi@ensure@newcommand*\@RTLfootmarkstyle{1}{\def\RTLfootscript##1{#1}}
11342 \bidi@ensure@newcommand{\footfootmark}{%
11343   \ifdim\footmarkwidth < \z@
11344     \llap{\hb@xt@ -\footmarkwidth{%
11345       \hss\normalfont\footscript{\@thefnmark}}}%
11346     \hspace*{-\footmarkwidth}}%
11347   \else
11348     \ifdim\footmarkwidth = \z@
11349       {\normalfont\footscript{\@thefnmark}}%
11350     \else
11351       \hb@xt@\footmarkwidth{\hss\normalfont\footscript{\@thefnmark}}%
11352     \fi
11353   \fi}
11354 \bidi@ensure@newcommand{\LTRfootfootmark}{%
11355   \ifdim\footmarkwidth < \z@
11356     \llap{\hb@xt@ -\footmarkwidth{%
11357       \hss\normalfont\LTRfootscript{\@thefnmark}}}%
11358     \hspace*{-\footmarkwidth}}%
11359   \else
11360     \ifdim\footmarkwidth = \z@
11361       {\normalfont\LTRfootscript{\@thefnmark}}%
11362     \else

```



```

11363      \hb@xt@\footmarkwidth{\hss\normalfont\LTRfootscript{\@thefnmark}}%
11364      \fi
11365    \fi}
11366 \bidi@ensure@newcommand{\RTLfootfootmark}{%
11367   \ifdim\footmarkwidth < \z@
11368     \llap{\hb@xt@ -\footmarkwidth{%
11369       \hss\normalfont\RTLfootscript{\@thefnmark}}}%
11370     \hspace*{-\footmarkwidth}}%
11371   \else
11372     \ifdim\footmarkwidth = \z@
11373       {\normalfont\RTLfootscript{\@thefnmark}}%
11374     \else
11375       \hb@xt@\footmarkwidth{\hss\normalfont\RTLfootscript{\@thefnmark}}%
11376     \fi
11377   \fi}
11378 \footmarkstyle{\textsuperscript{#1}}
11379 \LTRfootmarkstyle{\textsuperscript{#1}}
11380 \RTLfootmarkstyle{\textsuperscript{#1}}
11381 \newcommand*{\bidi@normal@footmarkwidth}{%
11382   \setlength{\footmarkwidth}{1em plus.4em minus.4em}%
11383 }
11384 \newcommand*{\bidi@star@footmarkwidth}{%
11385   \setlength{\footmarkwidth}{0em plus.4em minus.4em}%
11386 }
11387 \bidi@normal@footmarkwidth
11388 \bidi@ensure@newcommand{\m@mdoextrafeet}{\extrafeetins}
11389 \bidi@ensure@newcommand*{\extrafeetins}{%
11390   \setbox\@outputbox \vbox{%
11391     \boxmaxdepth \@maxdepth
11392     \unvbox\@outputbox
11393     \ifvoid\footinsv@r
11394       \ifvoid\footinsv@l
11395       \else
11396         \@footstartv@l
11397         \@LTRfootgroupv@l
11398       \fi
11399     \else
11400       \@footstartv@r
11401       \@footgroupv@r
11402       \ifvoid\footinsv@l
11403       \else
11404         \@@footstart@@v@l
11405         \@LTRfootgroupv@l
11406       \fi
11407     \fi
11408     \ifvoid\@bidi@copyins@
11409     \else
11410       \vskip \skip\@bidi@copyins@
11411       \color@begingroup
11412         \normalcolor
11413         \unvbox \@bidi@copyins@
11414       \color@endgroup
11415     \fi
11416     \extrafeetinshook}}

```



```

11417 \bidi@ensure@newcommand{\extrafeetinshook}{%
11418 \bidi@ensure@newcommand{\foottextfont}{\footnotesize}
11419 \bidi@ensure@newcommand{\LTRfoottextfont}{\footnotesize}
11420 \bidi@ensure@newcommand{\RTLfoottextfont}{\footnotesize}
11421 \bidi@ensure@newlength{\footinsdim}
11422 \setlength{\footinsdim}{8in} % standard for \dimen\footins
11423 \bidi@ensure@newcommand{\@preamfntext}{%
11424 \interlinepenalty\interfootnotelinepenalty
11425 \floatingpenalty \@MM
11426 \splittopskip=\footnotesep
11427 \splitmaxdepth=\dp\strutbox
11428 \@parboxrestore}
11429 \bidi@ensure@newcommand{\m@mmdoextrafeetmini}{%
11430 \extrafeetminihook}
11431 \bidi@ensure@newcommand{\extrafeetendmini}{%
11432 \ifvoid\@mpfootinsv@r
11433 \ifvoid\@mpfootinsv@l
11434 \else
11435 \vskip\skip\@mpfootins
11436 \normalcolor
11437 \if@bidi@void@\@mpfootins
11438 \footnoterule
11439 \fi
11440 \mp@LTRfootgroupv@l
11441 \fi
11442 \else
11443 \vskip\skip\@mpfootins
11444 \normalcolor
11445 \if@bidi@void@\@mpfootins
11446 \footnoterule
11447 \fi
11448 \mp@footgroupv@r
11449 \ifvoid\@mpfootinsv@l
11450 \else
11451 \vskip\skip\@mpfootins
11452 \normalcolor\mp@LTRfootgroupv@l
11453 \fi
11454 \fi
11455 \extrafeetendminihook}
11456 \bidi@ensure@newcommand{\extrafeetendminihook}{%
11457 \bidi@ensure@newcommand{\m@mmdoextrafeetendmini}{\extrafeetendmini}
11458 \def\endminipage{%
11459 \par
11460 \unskip
11461 \ifvoid\@mpfootins
11462 \global\@bidi@void@\@mpfootinstrue
11463 \else
11464 \global\@bidi@void@\@mpfootinsfalse
11465 \vskip\skip\@mpfootins
11466 \normalcolor
11467 \footnoterule
11468 \unvbox\@mpfootins
11469 \fi
11470 \m@mmdoextrafeetendmini

```



```

11471 \@minipagefalse
11472 \color@endgroup
11473 \egroup
11474 \expandafter\@iiiparbox\@mpargs{\unvbox\@tempboxa}}
11475 \bidi@ensure@newcommand{\m@make@footstart}[1]{%
11476 \@namedef{\@footstart#1}{%
11477 \bidi@mopfn@bottom
11478 \leftskip=\z@
11479 \rightskip=\z@
11480 \parindent=\z@
11481 \vskip\skip\footins
11482 \footnoterule}}
11483 \newinsert\footinsv@r
11484 \skip\footinsv@r\bigskipamount
11485 \count\footinsv@r=1000 % no magnification
11486 \dimen\footinsv@r=\footinsdim
11487 \m@make@footstart{v@r}
11488 \newinsert\footinsv@l
11489 \skip\footinsv@l\bigskipamount
11490 \bidi@ensure@newcommand{\@footgroupv@r}{}
11491 \newinsert\@mpfootinsv@r
11492 \newinsert\@mpfootinsv@l
11493 \bidi@ensure@newcommand{\mp@footgroupv@r}{}
11494 \newcount\m@m@k \newdimen\m@m@h
11495 \@ifpackageloaded{multicol}{%
11496 \bidi@ensure@newcommand*{\m@mrigidbalance}[3]{\setbox0=\box#1 \m@m@k=#2 \m@m@h=#3
11497 \hsize\textwidth
11498 \@@line{\if@RTLcolumnfootnotes\beginR\fi\splittopskip=\m@m@h \vbadness=\@M \hfilneg
11499 \valign{##\vfill\cr\m@m@dosplits}\if@RTLcolumnfootnotes\endR\fi}}
11500 }{%
11501 \bidi@ensure@newcommand*{\m@mrigidbalance}[3]{\setbox0=\box#1 \m@m@k=#2 \m@m@h=#3
11502 \@@line{\if@RTLcolumnfootnotes\beginR\fi\splittopskip=\m@m@h \vbadness=\@M \hfilneg
11503 \valign{##\vfill\cr\m@m@dosplits}\if@RTLcolumnfootnotes\endR\fi}}
11504 \bidi@ensure@newcommand*{\m@m@dosplits}{\ifnum\m@m@k>0 \noalign{\hfil}\m@m@splitoff
11505 \global\advance\m@m@k-1\cr\m@m@dosplits\fi}
11506 \bidi@ensure@newcommand*{\m@m@splitoff}{\dimen0=\ht0
11507 \divide\dimen0 by\m@m@k \advance\dimen0 by\m@m@h
11508 \setbox2 \vsplit0 to \dimen0
11509 \unvbox2 }
11510 \bidi@ensure@newcommand{\twocolumnfootnotes}{%
11511 \@namedef{\foottextfontv@r}{\foottextfont}% % [RS]
11512 \@bidi@before@Hy@hyperfootnotes
11513 \let\@footnotetext\@twocolfootnotetext
11514 \let\@LTRfootnotetext\@twocolLTRfootnotetext
11515 \let\@RTLfootnotetext\@twocolRTLfootnotetext
11516 \dimen\footinsv@r=2\footinsdim
11517 \count\footinsv@r=500\relax
11518 \m@make@twocol@footgroup{v@r}%
11519 \let\@footgroupv@r\@twocol@footgroupv@r
11520 \let\@mpfootnotetext\@mptwocolfootnotetext
11521 \let\@mpLTRfootnotetext\@mptwocolLTRfootnotetext
11522 \let\@mpRTLfootnotetext\@mptwocolRTLfootnotetext
11523 \@bidi@after@Hy@hyperfootnotes
11524 \m@make@mptwocol@footgroup{v@r}%

```



```

11525 \let\mp@footgroupv@r\@mptwocol@footgroupv@r
11526 \@ifstar\@bidi@star@footmarkwidth\@bidi@normal@footmarkwidth
11527 }
11528 \bidi@ensure@newcommand{\@twocolfootnotetext}[1]{\insert\footinsv@r{\if@RTL@footnote\@RTLtrue%
11529 \def\baselinestretch{\m@mm@footnote@spacing}%
11530 \reset@font\foottextfont
11531 \@preamfntext
11532 \protected@edef\@currentlabel{%
11533 \csname p@footnote\endcsname\@thefnmark}%
11534 \color@begingroup
11535 \@twocolfootfmt{#1}%
11536 \color@endgroup}%
11537 \m@mmf@prepare}
11538 \bidi@ensure@newcommand{\@twocolLTRfootnotetext}[1]{\insert\footinsv@r{\if@RTLcolumnfootnote%
11539 \def\baselinestretch{\m@mm@footnote@spacing}%
11540 \reset@font\LTRfoottextfont
11541 \@preamfntext
11542 \protected@edef\@currentlabel{%
11543 \csname p@footnote\endcsname\@thefnmark}%
11544 \color@begingroup
11545 \@twocolLTRfootfmt{#1}%
11546 \color@endgroup}%
11547 \m@mmf@prepare}
11548 \bidi@ensure@newcommand{\@twocolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
11549 \def\baselinestretch{\m@mm@footnote@spacing}%
11550 \reset@font\RTLfoottextfont
11551 \@preamfntext
11552 \protected@edef\@currentlabel{%
11553 \csname p@footnote\endcsname\@thefnmark}%
11554 \color@begingroup
11555 \@twocolRTLfootfmt{#1}%
11556 \color@endgroup}%
11557 \m@mmf@prepare}
11558 \bidi@ensure@newcommand{\@preamtwofmt}{%
11559 \hspace{.45\hspace}
11560 \parindent=\z@
11561 \tolerance=5000\relax
11562 \leavevmode}
11563 \bidi@ensure@newcommand{\@twocolfootfmt}[1]{%
11564 \@preamtwofmt
11565 {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
11566 \bidi@ensure@newcommand{\@twocolLTRfootfmt}[1]{%
11567 \@preamtwofmt
11568 {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
11569 \bidi@ensure@newcommand{\@twocolRTLfootfmt}[1]{%
11570 \@preamtwofmt
11571 {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
11572 \bidi@ensure@newcommand{\@mptwocolfootnotetext}[1]{%
11573 \global\setbox\@mpfootinsv@r\vbox{\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
11574 \unvbox\@mpfootinsv@r
11575 \def\baselinestretch{\m@mm@footnote@spacing}%
11576 \reset@font\foottextfont
11577 \hspace\columnwidth \@parboxrestore
11578 \protected@edef\@currentlabel{%

```



```

11579 \csname p@mpfootnote\endcsname\@thefnmark}%
11580 \color@begingroup
11581 \@twocolfootfmt{#1}%
11582 \color@endgroup}%
11583 \m@mmf@prepare}
11584 \bidi@ensure@newcommand{\@mptwocolLTRfootnotetext}[1]{%
11585 \global\setbox\@mpfootinsv@r\vbox{\@RTLfalse%
11586 \unvbox\@mpfootinsv@r
11587 \def\baselinestretch{\m@m@footnote@spacing}%
11588 \reset@font\LTRfoottextfont
11589 \hsize\columnwidth \@parboxrestore
11590 \if@RTLcolumnfootnotes\beginL\fi
11591 \protected@edef\@currentlabel{%
11592 \csname p@mpfootnote\endcsname\@thefnmark}%
11593 \color@begingroup
11594 \@twocolLTRfootfmt{#1}%
11595 \color@endgroup}%
11596 \m@mmf@prepare}
11597 \bidi@ensure@newcommand{\@mptwocolRTLfootnotetext}[1]{%
11598 \global\setbox\@mpfootinsv@r\vbox{\@RTLtrue%
11599 \unvbox\@mpfootinsv@r
11600 \def\baselinestretch{\m@m@footnote@spacing}%
11601 \reset@font\RTLfoottextfont
11602 \hsize\columnwidth \@parboxrestore
11603 \protected@edef\@currentlabel{%
11604 \csname p@mpfootnote\endcsname\@thefnmark}%
11605 \color@begingroup
11606 \@twocolRTLfootfmt{#1}%
11607 \color@endgroup}%
11608 \m@mmf@prepare}
11609 \bidi@ensure@newcommand{\m@make@twocol@footgroup}[1]{%
11610 \@namedef{@twocol@footgroup#1}{%
11611 \def\baselinestretch{\m@m@footnote@spacing}%
11612 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
11613 \m@mrigidbalance{\@nameuse{footins#1}}{\tw@}{\splittopskip}}}%
11614 \bidi@ensure@newcommand{\m@make@mptwocol@footgroup}[1]{%
11615 \@namedef{@mptwocol@footgroup#1}{%
11616 \def\baselinestretch{\m@m@footnote@spacing}%
11617 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
11618 \m@mrigidbalance{\@nameuse{mpfootins#1}}{\tw@}{\splittopskip}}}%
11619 \bidi@ensure@newcommand{\threecolumnfootnotes}{%
11620 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
11621 \@bidi@before@Hy@hyperfootnotes
11622 \let\@footnotetext\@threecolfootnotetext
11623 \let\@LTRfootnotetext\@threecolLTRfootnotetext
11624 \let\@RTLfootnotetext\@threecolRTLfootnotetext
11625 \dimen\footinsv@r=3\footinsdim
11626 \count\footinsv@r=333\relax
11627 \m@make@threecol@footgroup{v@r}%
11628 \let\@footgroupv@r\@threecol@footgroupv@r
11629 \let\@mpfootnotetext\@mpthreecolfootnotetext
11630 \let\@mpLTRfootnotetext\@mpthreecolLTRfootnotetext
11631 \let\@mpRTLfootnotetext\@mpthreecolRTLfootnotetext
11632 \bidi@after@Hy@hyperfootnotes

```



```

11633 \m@make@mpthreecol@footgroup{v@r}%
11634 \let\mp@footgroupv@r\@mpthreecol@footgroupv@r
11635 \@ifstar\@bidi@star@footmarkwidth\@bidi@normal@footmarkwidth
11636 }
11637 \bidi@ensure@newcommand{\@threecolfootnotetext}[1]{\insert\footinsv@r{\if@RTL@footnote\@RTL
11638 \def\baselinestretch{\m@m@footnote@spacing}%
11639 \reset@font\foottextfont
11640 \@preamfntext
11641 \protected@edef\@currentlabel{%
11642 \csname p@footnote\endcsname\@thefnmark}%
11643 \color@begingroup
11644 \@threecolfootfmt{#1}%
11645 \color@endgroup}\m@mmf@prepare}
11646 \bidi@ensure@newcommand{\@threecolLTRfootnotetext}[1]{\insert\footinsv@r{\if@RTLcolumnfootno
11647 \def\baselinestretch{\m@m@footnote@spacing}%
11648 \reset@font\LTRfoottextfont
11649 \@preamfntext
11650 \protected@edef\@currentlabel{%
11651 \csname p@footnote\endcsname\@thefnmark}%
11652 \color@begingroup
11653 \@threecolLTRfootfmt{#1}%
11654 \color@endgroup}\m@mmf@prepare}
11655 \bidi@ensure@newcommand{\@threecolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
11656 \def\baselinestretch{\m@m@footnote@spacing}%
11657 \reset@font\RTLfoottextfont
11658 \@preamfntext
11659 \protected@edef\@currentlabel{%
11660 \csname p@footnote\endcsname\@thefnmark}%
11661 \color@begingroup
11662 \@threecolRTLfootfmt{#1}%
11663 \color@endgroup}\m@mmf@prepare}
11664 \bidi@ensure@newcommand{\@preamthreefmt}{%
11665 \hspace{.3\hspace}
11666 \parindent=\z@
11667 \tolerance=5000\relax
11668 \leavevmode}
11669 \bidi@ensure@newcommand{\@threecolfootfmt}[1]{%
11670 \@preamthreefmt
11671 {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
11672 \bidi@ensure@newcommand{\@threecolLTRfootfmt}[1]{%
11673 \@preamthreefmt
11674 {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
11675 \bidi@ensure@newcommand{\@threecolRTLfootfmt}[1]{%
11676 \@preamthreefmt
11677 {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
11678 \bidi@ensure@newcommand{\@mpthreecolfootnotetext}[1]{%
11679 \global\setbox\@mpfootinsv@r\vbox{\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
11680 \unvbox\@mpfootinsv@r
11681 \def\baselinestretch{\m@m@footnote@spacing}%
11682 \reset@font\foottextfont
11683 \hspace\columnwidth \@parboxrestore
11684 \protected@edef\@currentlabel{%
11685 \csname p@mpfootnote\endcsname\@thefnmark}%
11686 \color@begingroup

```



```

11687 \@threecolfootfmt{#1}%
11688 \color@endgroup}\m@mmf@prepare}
11689 \bidi@ensure@newcommand{\@mpthreecolLTrfootnotetext}[1]{%
11690 \global\setbox\@mpfootinsv@r\vbox{\@RTLfalse%
11691 \unvbox\@mpfootinsv@r
11692 \def\baselinestretch{\m@m@footnote@spacing}%
11693 \reset@font\LTrfoottextfont
11694 \hsize\columnwidth \@parboxrestore
11695 \if@RTLcolumnfootnotes\beginL\fi
11696 \protected@edef\@currentlabel{%
11697 \csname p@mpfootnote\endcsname\@thefnmark}%
11698 \color@begingroup
11699 \@threecolLTrfootfmt{#1}%
11700 \color@endgroup}\m@mmf@prepare}
11701 \bidi@ensure@newcommand{\@mpthreecolRTLfootnotetext}[1]{%
11702 \global\setbox\@mpfootinsv@r\vbox{\@RTLtrue%
11703 \unvbox\@mpfootinsv@r
11704 \def\baselinestretch{\m@m@footnote@spacing}%
11705 \reset@font\RTLfoottextfont
11706 \hsize\columnwidth \@parboxrestore
11707 \protected@edef\@currentlabel{%
11708 \csname p@mpfootnote\endcsname\@thefnmark}%
11709 \color@begingroup
11710 \@threecolRTLfootfmt{#1}%
11711 \color@endgroup}\m@mmf@prepare}
11712 \bidi@ensure@newcommand{\m@make@threecol@footgroup}[1]{%
11713 \@namedef{@threecol@footgroup#1}{%
11714 \def\baselinestretch{\m@m@footnote@spacing}%
11715 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
11716 \m@mrigidbalance{\@nameuse{footins#1}}{\thr@@}{\splittopskip}}}%
11717 \bidi@ensure@newcommand{\m@make@mpthreecol@footgroup}[1]{%
11718 \@namedef{@mpthreecol@footgroup#1}{%
11719 \def\baselinestretch{\m@m@footnote@spacing}%
11720 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
11721 \m@mrigidbalance{\@nameuse{mpfootins#1}}{\thr@@}{\splittopskip}}}%
11722 \bidi@ensure@newcommand{\fourcolumnfootnotes}{%
11723 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
11724 \@bidi@before@Hy@hyperfootnotes
11725 \let\@footnotetext\@fourcolfootnotetext
11726 \let\@LTrfootnotetext\@fourcolLTrfootnotetext
11727 \let\@RTLfootnotetext\@fourcolRTLfootnotetext
11728 \dimen\footinsv@r=4\footinsdim
11729 \count\footinsv@r=250\relax
11730 \m@make@fourcol@footgroup{v@r}%
11731 \let\@footgroupv@r\@fourcol@footgroupv@r
11732 \let\@mpfootnotetext\@mpfourcolfootnotetext
11733 \let\@mpLTrfootnotetext\@mpfourcolLTrfootnotetext
11734 \let\@mpRTLfootnotetext\@mpfourcolRTLfootnotetext
11735 \@bidi@after@Hy@hyperfootnotes
11736 \m@make@mpfourcol@footgroup{v@r}%
11737 \let\mp@footgroupv@r\@mpfourcol@footgroupv@r
11738 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
11739 }
11740 \bidi@ensure@newcommand{\@fourcolfootnotetext}[1]{\insert\footinsv@r{\if@RTL@footnote\@RTLtr

```



```

11741 \def\baselinestretch{\m@m@footnote@spacing}%
11742 \reset@font\foottextfont
11743 \@preamfntext
11744 \protected@edef\@currentlabel{%
11745   \csname p@footnote\endcsname\@thefnmark}%
11746 \color@begingroup
11747   \@fourcolfootfmt{#1}%
11748 \color@endgroup}%
11749 \m@mmf@prepare}
11750 \bidi@ensure@newcommand{\@fourcolLTRfootnotetext}[1]{\insert\footinsv@r{\if@RTLcolumnfootnot
11751 \def\baselinestretch{\m@m@footnote@spacing}%
11752 \reset@font\LTRfoottextfont
11753 \@preamfntext
11754 \protected@edef\@currentlabel{%
11755   \csname p@footnote\endcsname\@thefnmark}%
11756 \color@begingroup
11757   \@fourcolLTRfootfmt{#1}%
11758 \color@endgroup}%
11759 \m@mmf@prepare}
11760 \bidi@ensure@newcommand{\@fourcolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
11761 \def\baselinestretch{\m@m@footnote@spacing}%
11762 \reset@font\RTLfoottextfont
11763 \@preamfntext
11764 \protected@edef\@currentlabel{%
11765   \csname p@footnote\endcsname\@thefnmark}%
11766 \color@begingroup
11767   \@fourcolRTLfootfmt{#1}%
11768 \color@endgroup}%
11769 \m@mmf@prepare}
11770 \bidi@ensure@newcommand{\@preamfourfmt}{%
11771 \hspace{.25\hspace}
11772 \parindent=\z@
11773 \tolerance=5000\relax
11774 \leavevmode}
11775 \bidi@ensure@newcommand{\@fourcolfootfmt}[1]{%
11776 \@preamfourfmt
11777 {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
11778 \bidi@ensure@newcommand{\@fourcolLTRfootfmt}[1]{%
11779 \@preamfourfmt
11780 {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
11781 \bidi@ensure@newcommand{\@fourcolRTLfootfmt}[1]{%
11782 \@preamfourfmt
11783 {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
11784 \bidi@ensure@newcommand{\@mpfourcolfootnotetext}[1]{%
11785 \global\setbox\@mpfootinsv@r\vbox{\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
11786   \unvbox\@mpfootinsv@r
11787   \def\baselinestretch{\m@m@footnote@spacing}%
11788   \reset@font\foottextfont
11789   \hspace\columnwidth \@parboxrestore
11790   \protected@edef\@currentlabel{%
11791     \csname p@mpfootnote\endcsname\@thefnmark}%
11792   \color@begingroup
11793     \@fourcolfootfmt{#1}%
11794   \color@endgroup}%

```



```

11795 \m@mmf@prepare}
11796 \bidi@ensure@newcommand{\@mpfourcolLTRfootnotetext}[1]{%
11797 \global\setbox\@mpfootinsv@r\vbox{\@RTLfalse%
11798 \unvbox\@mpfootinsv@r
11799 \def\baselinestretch{\m@m@footnote@spacing}%
11800 \reset@font\LTRfoottextfont
11801 \hsize\columnwidth \@parboxrestore
11802 \if@RTLcolumnfootnotes\beginL\fi
11803 \protected@edef\@currentlabel{%
11804 \csname p@mpfootnote\endcsname\@thefnmark}%
11805 \color@begingroup
11806 \@fourcolLTRfootfmt{#1}%
11807 \color@endgroup}%
11808 \m@mmf@prepare}
11809 \bidi@ensure@newcommand{\@mpfourcolRTLfootnotetext}[1]{%
11810 \global\setbox\@mpfootinsv@r\vbox{\@RTLtrue%
11811 \unvbox\@mpfootinsv@r
11812 \def\baselinestretch{\m@m@footnote@spacing}%
11813 \reset@font\RTLfoottextfont
11814 \hsize\columnwidth \@parboxrestore
11815 \protected@edef\@currentlabel{%
11816 \csname p@mpfootnote\endcsname\@thefnmark}%
11817 \color@begingroup
11818 \@fourcolRTLfootfmt{#1}%
11819 \color@endgroup}%
11820 \m@mmf@prepare}
11821 \bidi@ensure@newcommand{\m@make@fourcol@footgroup}[1]{%
11822 \@namedef{\@fourcol@footgroup#1}{%
11823 \def\baselinestretch{\m@m@footnote@spacing}%
11824 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
11825 \m@mrigidbalance{\@nameuse{footins#1}}{4}{\splittopskip}}}%
11826 \bidi@ensure@newcommand{\m@make@mpfourcol@footgroup}[1]{%
11827 \@namedef{\@mpfourcol@footgroup#1}{%
11828 \def\baselinestretch{\m@m@footnote@spacing}%
11829 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
11830 \m@mrigidbalance{\@nameuse{\@mpfootins#1}}{4}{\splittopskip}}}%
11831 \bidi@ensure@newcommand{\@fivecolumnfootnotes}{%
11832 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
11833 \@bidi@before@Hy@hyperfootnotes
11834 \let\@footnotetext\@fivecolfootnotetext
11835 \let\@LTRfootnotetext\@fivecolLTRfootnotetext
11836 \let\@RTLfootnotetext\@fivecolRTLfootnotetext
11837 \dimen\footinsv@r=5\footinsdim
11838 \count\footinsv@r=200\relax
11839 \m@make@fivecol@footgroup{v@r}%
11840 \let\@footgroupv@r\@fivecol@footgroupv@r
11841 \let\@mpfootnotetext\@mpfivecolfootnotetext
11842 \let\@mpLTRfootnotetext\@mpfivecolLTRfootnotetext
11843 \let\@mpRTLfootnotetext\@mpfivecolRTLfootnotetext
11844 \@bidi@after@Hy@hyperfootnotes
11845 \m@make@mpfivecol@footgroup{v@r}%
11846 \let\mp@footgroupv@r\@mpfivecol@footgroupv@r
11847 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
11848 }

```



```

11849 \bidi@ensure@newcommand{\@fivecolfootnotetext}[1]{\insert\footinsv@r{\if@RTL@footnote\@RTLtr
11850 \def\baselinestretch{\m@m@footnote@spacing}%
11851 \reset@font\foottextfont
11852 \@preamfntext
11853 \protected@edef\@currentlabel{%
11854 \csname p@footnote\endcsname\@thefnmark}%
11855 \color@begingroup
11856 \@fivecolfootfmt{#1}%
11857 \color@endgroup}%
11858 \m@mmf@prepare}
11859 \bidi@ensure@newcommand{\@fivecolLTRfootnotetext}[1]{\insert\footinsv@r{\if@RTLcolumnfootnot
11860 \def\baselinestretch{\m@m@footnote@spacing}%
11861 \reset@font\LTRfoottextfont
11862 \@preamfntext
11863 \protected@edef\@currentlabel{%
11864 \csname p@footnote\endcsname\@thefnmark}%
11865 \color@begingroup
11866 \@fivecolLTRfootfmt{#1}%
11867 \color@endgroup}%
11868 \m@mmf@prepare}
11869 \bidi@ensure@newcommand{\@fivecolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
11870 \def\baselinestretch{\m@m@footnote@spacing}%
11871 \reset@font\RTLfoottextfont
11872 \@preamfntext
11873 \protected@edef\@currentlabel{%
11874 \csname p@footnote\endcsname\@thefnmark}%
11875 \color@begingroup
11876 \@fivecolRTLfootfmt{#1}%
11877 \color@endgroup}%
11878 \m@mmf@prepare}
11879 \bidi@ensure@newcommand{\@preamfivefmt}{%
11880 \hspace{.2\hspace}
11881 \parindent=\z@
11882 \tolerance=5000\relax
11883 \leavevmode}
11884 \bidi@ensure@newcommand{\@fivecolfootfmt}[1]{%
11885 \@preamfivefmt
11886 {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
11887 \bidi@ensure@newcommand{\@fivecolLTRfootfmt}[1]{%
11888 \@preamfivefmt
11889 {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
11890 \bidi@ensure@newcommand{\@fivecolRTLfootfmt}[1]{%
11891 \@preamfivefmt
11892 {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
11893 \bidi@ensure@newcommand{\@mpfivecolfootnotetext}[1]{%
11894 \global\setbox\@mpfootinsv@r\vbox{\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
11895 \unvbox\@mpfootinsv@r
11896 \def\baselinestretch{\m@m@footnote@spacing}%
11897 \reset@font\foottextfont
11898 \hspace\columnwidth \@parboxrestore
11899 \protected@edef\@currentlabel{%
11900 \csname p@mpfootnote\endcsname\@thefnmark}%
11901 \color@begingroup
11902 \@fivecolfootfmt{#1}%

```



```

11903 \color@endgroup}%
11904 \m@mmf@prepare}
11905 \bidi@ensure@newcommand{\@mpfivecolLTRfootnotetext}[1]{%
11906 \global\setbox\@mpfootinsv@r\vbox{\@RTLfalse%
11907 \unvbox\@mpfootinsv@r
11908 \def\baselinestretch{\m@m@footnote@spacing}%
11909 \reset@font\LTRfoottextfont
11910 \hsize\columnwidth \@parboxrestore
11911 \if@RTLcolumnfootnotes\beginL\fi
11912 \protected@edef\@currentlabel{%
11913 \csname p@mpfootnote\endcsname\@thefnmark}%
11914 \color@begingroup
11915 \@fivecolLTRfootfmt{#1}%
11916 \color@endgroup}%
11917 \m@mmf@prepare}
11918 \bidi@ensure@newcommand{\@mpfivecolRTLfootnotetext}[1]{%
11919 \global\setbox\@mpfootinsv@r\vbox{\@RTLtrue%
11920 \unvbox\@mpfootinsv@r
11921 \def\baselinestretch{\m@m@footnote@spacing}%
11922 \reset@font\RTLfoottextfont
11923 \hsize\columnwidth \@parboxrestore
11924 \protected@edef\@currentlabel{%
11925 \csname p@mpfootnote\endcsname\@thefnmark}%
11926 \color@begingroup
11927 \@fivecolRTLfootfmt{#1}%
11928 \color@endgroup}%
11929 \m@mmf@prepare}
11930 \bidi@ensure@newcommand{\m@make@fivecol@footgroup}[1]{%
11931 \@namedef{\@fivecol@footgroup#1}{%
11932 \def\baselinestretch{\m@m@footnote@spacing}%
11933 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
11934 \m@mrigidbalance{\@nameuse{footins#1}}{5}{\splittopskip}}}%
11935 \bidi@ensure@newcommand{\m@make@mpfivecol@footgroup}[1]{%
11936 \@namedef{\@mpfivecol@footgroup#1}{%
11937 \def\baselinestretch{\m@m@footnote@spacing}%
11938 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
11939 \m@mrigidbalance{\@nameuse{\@mpfootins#1}}{5}{\splittopskip}}}%
11940 \bidi@ensure@newcommand{\sixcolumnfootnotes}{%
11941 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
11942 \@bidi@before@Hy@hyperfootnotes
11943 \let\@footnotetext\@sixcolfootnotetext
11944 \let\@LTRfootnotetext\@sixcolLTRfootnotetext
11945 \let\@RTLfootnotetext\@sixcolRTLfootnotetext
11946 \dimen\footinsv@r=6\footinsdim
11947 \count\footinsv@r=166\relax
11948 \m@make@sixcol@footgroup{v@r}%
11949 \let\@footgroupv@r\@sixcol@footgroupv@r
11950 \let\@mpfootnotetext\@mpsixcolfootnotetext
11951 \let\@mpLTRfootnotetext\@mpsixcolLTRfootnotetext
11952 \let\@mpRTLfootnotetext\@mpsixcolRTLfootnotetext
11953 \@bidi@after@Hy@hyperfootnotes
11954 \m@make@mpsixcol@footgroup{v@r}%
11955 \let\mp@footgroupv@r\@mpsixcol@footgroupv@r
11956 \ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth

```



```

11957 }
11958 \bidi@ensure@newcommand{\@sixcolfootnotetext}[1]{\insert\footinsv@r{\if@RTL@footnote\@RTLtrue%
11959 \def\baselinestretch{\m@m@footnote@spacing}%
11960 \reset@font\foottextfont
11961 \@preamfntext
11962 \protected@edef\@currentlabel{%
11963 \csname p@footnote\endcsname\@thefnmark}%
11964 \color@begingroup
11965 \@sixcolfootfmt{#1}%
11966 \color@endgroup}%
11967 \m@mmf@prepare}
11968 \bidi@ensure@newcommand{\@sixcolLTRfootnotetext}[1]{\insert\footinsv@r{\if@RTLcolumnfootnote%
11969 \def\baselinestretch{\m@m@footnote@spacing}%
11970 \reset@font\LTRfoottextfont
11971 \@preamfntext
11972 \protected@edef\@currentlabel{%
11973 \csname p@footnote\endcsname\@thefnmark}%
11974 \color@begingroup
11975 \@sixcolLTRfootfmt{#1}%
11976 \color@endgroup}%
11977 \m@mmf@prepare}
11978 \bidi@ensure@newcommand{\@sixcolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
11979 \def\baselinestretch{\m@m@footnote@spacing}%
11980 \reset@font\RTLfoottextfont
11981 \@preamfntext
11982 \protected@edef\@currentlabel{%
11983 \csname p@footnote\endcsname\@thefnmark}%
11984 \color@begingroup
11985 \@sixcolRTLfootfmt{#1}%
11986 \color@endgroup}%
11987 \m@mmf@prepare}
11988 \bidi@ensure@newcommand{\@preamsixfmt}{%
11989 \hsize .16\hsize
11990 \parindent=\z@
11991 \tolerance=5000\relax
11992 \leavevmode}
11993 \bidi@ensure@newcommand{\@sixcolfootfmt}[1]{%
11994 \@preamsixfmt
11995 {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
11996 \bidi@ensure@newcommand{\@sixcolLTRfootfmt}[1]{%
11997 \@preamsixfmt
11998 {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
11999 \bidi@ensure@newcommand{\@sixcolRTLfootfmt}[1]{%
12000 \@preamsixfmt
12001 {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
12002 \bidi@ensure@newcommand{\@mpsixcolfootnotetext}[1]{\if@RTL@footnote\@RTLtrue\else\@RTLfalse%
12003 \global\setbox\@mpfootinsv@r\vbox{%
12004 \unvbox\@mpfootinsv@r
12005 \def\baselinestretch{\m@m@footnote@spacing}%
12006 \reset@font\foottextfont
12007 \hsize\columnwidth \@parboxrestore
12008 \protected@edef\@currentlabel{%
12009 \csname p@mpfootnote\endcsname\@thefnmark}%
12010 \color@begingroup

```



```

12011 \sixcolfootfmt{#1}%
12012 \color@endgroup}%
12013 \m@mmf@prepare}
12014 \bidi@ensure@newcommand{\@mpsixcolLTRfootnotetext}[1]{\@RTLfalse%
12015 \global\setbox\@mpfootinsv@r\vbox{%
12016 \unvbox\@mpfootinsv@r
12017 \def\baselinestretch{\m@m@footnote@spacing}%
12018 \reset@font\LTRfoottextfont
12019 \hsize\columnwidth \@parboxrestore
12020 \if@RTLcolumnfootnotes\beginL\fi
12021 \protected@edef\@currentlabel{%
12022 \csname p@mpfootnote\endcsname\@thefnmark}%
12023 \color@begingroup
12024 \sixcolLTRfootfmt{#1}%
12025 \color@endgroup}%
12026 \m@mmf@prepare}
12027 \bidi@ensure@newcommand{\@mpsixcolRTLfootnotetext}[1]{\@RTLtrue%
12028 \global\setbox\@mpfootinsv@r\vbox{%
12029 \unvbox\@mpfootinsv@r
12030 \def\baselinestretch{\m@m@footnote@spacing}%
12031 \reset@font\RTLfoottextfont
12032 \hsize\columnwidth \@parboxrestore
12033 \protected@edef\@currentlabel{%
12034 \csname p@mpfootnote\endcsname\@thefnmark}%
12035 \color@begingroup
12036 \sixcolRTLfootfmt{#1}%
12037 \color@endgroup}%
12038 \m@mmf@prepare}
12039 \bidi@ensure@newcommand{\m@make@sixcol@footgroup}[1]{%
12040 \@namedef{\sixcol@footgroup#1}{%
12041 \def\baselinestretch{\m@m@footnote@spacing}%
12042 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12043 \m@mrigidbalance{\@nameuse{footins#1}}{6}{\splittopskip}}}%
12044 \bidi@ensure@newcommand{\m@make@mpsixcol@footgroup}[1]{%
12045 \@namedef{\mpsixcol@footgroup#1}{%
12046 \def\baselinestretch{\m@m@footnote@spacing}%
12047 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12048 \m@mrigidbalance{\@nameuse{\@mpfootins#1}}{6}{\splittopskip}}}%
12049 \bidi@ensure@newcommand{\sevendcolumnfootnotes}{%
12050 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
12051 \@bidi@before@Hy@hyperfootnotes
12052 \let\@footnotetext\@sevendcolfootnotetext
12053 \let\@LTRfootnotetext\@sevendcolLTRfootnotetext
12054 \let\@RTLfootnotetext\@sevendcolRTLfootnotetext
12055 \dimen\footinsv@r=7\footinsdim
12056 \count\footinsv@r=142\relax
12057 \m@make@sevendcol@footgroup{v@r}%
12058 \let\@footgroupv@r\@sevendcol@footgroupv@r
12059 \let\@mpfootnotetext\@mpsevendcolfootnotetext
12060 \let\@mpLTRfootnotetext\@mpsevendcolLTRfootnotetext
12061 \let\@mpRTLfootnotetext\@mpsevendcolRTLfootnotetext
12062 \@bidi@after@Hy@hyperfootnotes
12063 \m@make@mpsevendcol@footgroup{v@r}%
12064 \let\mp@footgroupv@r\@mpsevendcol@footgroupv@r

```



```

12065 \@ifstar\@bidi@star@footmarkwidth\@bidi@normal@footmarkwidth
12066 }
12067 \bidi@ensure@newcommand{\@sevendcolfootnotetext}[1]{\insert\footinsv@r{\if@RTL@footnote\@RTL
12068 \def\baselinestretch{\m@m@footnote@spacing}%
12069 \reset@font\foottextfont
12070 \@preamfntext
12071 \protected@edef\@currentlabel{%
12072 \csname p@footnote\endcsname\@thefnmark}%
12073 \color@begingroup
12074 \@sevendcolfootfmt{#1}%
12075 \color@endgroup}%
12076 \m@mmf@prepare}
12077 \bidi@ensure@newcommand{\@sevendcolLTRfootnotetext}[1]{\insert\footinsv@r{\if@RTLcolumnfootno
12078 \def\baselinestretch{\m@m@footnote@spacing}%
12079 \reset@font\LTRfoottextfont
12080 \@preamfntext
12081 \protected@edef\@currentlabel{%
12082 \csname p@footnote\endcsname\@thefnmark}%
12083 \color@begingroup
12084 \@sevendcolLTRfootfmt{#1}%
12085 \color@endgroup}%
12086 \m@mmf@prepare}
12087 \bidi@ensure@newcommand{\@sevendcolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
12088 \def\baselinestretch{\m@m@footnote@spacing}%
12089 \reset@font\RTLfoottextfont
12090 \@preamfntext
12091 \protected@edef\@currentlabel{%
12092 \csname p@footnote\endcsname\@thefnmark}%
12093 \color@begingroup
12094 \@sevendcolRTLfootfmt{#1}%
12095 \color@endgroup}%
12096 \m@mmf@prepare}
12097 \bidi@ensure@newcommand{\@preamsevenfmt}{%
12098 \hspace{.142\hspace}
12099 \parindent=\z@
12100 \tolerance=5000\relax
12101 \leavevmode}
12102 \bidi@ensure@newcommand{\@sevendcolfootfmt}[1]{%
12103 \@preamsevenfmt
12104 {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
12105 \bidi@ensure@newcommand{\@sevendcolLTRfootfmt}[1]{%
12106 \@preamsevenfmt
12107 {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
12108 \bidi@ensure@newcommand{\@sevendcolRTLfootfmt}[1]{%
12109 \@preamsevenfmt
12110 {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
12111 \bidi@ensure@newcommand{\@mpsevendcolfootnotetext}[1]{\if@RTL@footnote\@RTLtrue\else\@RTLfalse
12112 \global\setbox\@mpfootinsv@r\vbox{%
12113 \unvbox\@mpfootinsv@r
12114 \def\baselinestretch{\m@m@footnote@spacing}%
12115 \reset@font\foottextfont
12116 \hspace\columnwidth \@parboxrestore
12117 \protected@edef\@currentlabel{%
12118 \csname p@mpfootnote\endcsname\@thefnmark}%

```



```

12119 \color@begingroup
12120 \sevenscolfootfmt{#1}%
12121 \color@endgroup}%
12122 \m@mmf@prepare}
12123 \bidi@ensure@newcommand{\@mpsevencolLTRfootnotetext}[1]{\@RTLfalse%
12124 \global\setbox\@mpfootinsv@r\vbox{%
12125 \unvbox\@mpfootinsv@r
12126 \def\baselinestretch{\m@m@footnote@spacing}%
12127 \reset@font\LTRfoottextfont
12128 \hsize\columnwidth \@parboxrestore
12129 \if@RTLcolumnfootnotes\beginL\fi
12130 \protected@edef\@currentlabel{%
12131 \csname p@mpfootnote\endcsname\@thefnmark}%
12132 \color@begingroup
12133 \sevenscolLTRfootfmt{#1}%
12134 \color@endgroup}%
12135 \m@mmf@prepare}
12136 \bidi@ensure@newcommand{\@mpsevencolRTLfootnotetext}[1]{\@RTLtrue%
12137 \global\setbox\@mpfootinsv@r\vbox{%
12138 \unvbox\@mpfootinsv@r
12139 \def\baselinestretch{\m@m@footnote@spacing}%
12140 \reset@font\RTLfoottextfont
12141 \hsize\columnwidth \@parboxrestore
12142 \protected@edef\@currentlabel{%
12143 \csname p@mpfootnote\endcsname\@thefnmark}%
12144 \color@begingroup
12145 \sevenscolRTLfootfmt{#1}%
12146 \color@endgroup}%
12147 \m@mmf@prepare}
12148 \bidi@ensure@newcommand{\m@make@sevenscol@footgroup}[1]{%
12149 \@namedef{\sevenscol@footgroup#1}{%
12150 \def\baselinestretch{\m@m@footnote@spacing}%
12151 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12152 \m@mrigidbalance{\@nameuse{footins#1}}{7}{\splittopskip}}}%
12153 \bidi@ensure@newcommand{\m@make@mpsevencol@footgroup}[1]{%
12154 \@namedef{\mpsevencol@footgroup#1}{%
12155 \def\baselinestretch{\m@m@footnote@spacing}%
12156 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12157 \m@mrigidbalance{\@nameuse{\mpfootins#1}}{7}{\splittopskip}}}%
12158 \bidi@ensure@newcommand{\eightcolumnfootnotes}{%
12159 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
12160 \@bidi@before@Hy@hyperfootnotes
12161 \let\@footnotetext\@eightcolfootnotetext
12162 \let\@LTRfootnotetext\@eightcolLTRfootnotetext
12163 \let\@RTLfootnotetext\@eightcolRTLfootnotetext
12164 \dimen\footinsv@r=8\footinsdim
12165 \count\footinsv@r=125\relax
12166 \m@make@eightcol@footgroup{v@r}%
12167 \let\@footgroupv@r\@eightcol@footgroupv@r
12168 \let\@mpfootnotetext\@mpeightcolfootnotetext
12169 \let\@mpLTRfootnotetext\@mpeightcolLTRfootnotetext
12170 \let\@mpRTLfootnotetext\@mpeightcolRTLfootnotetext
12171 \@bidi@after@Hy@hyperfootnotes
12172 \m@make@mpeightcol@footgroup{v@r}%

```



```

12173 \let\mp@footgroupv@r\@mpeightcol@footgroupv@r
12174 \@ifstar\ bidi@star@footmarkwidth\ bidi@normal@footmarkwidth
12175 }
12176 \bidi@ensure@newcommand{\@eightcolfootnotetext}[1]{\insert\footinsv@r{\if@RTL@footnote\@RTL
12177 \def\baselinestretch{\m@m@footnote@spacing}%
12178 \reset@font\foottextfont
12179 \@preamfntext
12180 \protected@edef\@currentlabel{%
12181 \csname p@footnote\endcsname\@thefnmark}%
12182 \color@begingroup
12183 \@eightcolfootfmt{#1}%
12184 \color@endgroup}%
12185 \m@mmf@prepare}
12186 \bidi@ensure@newcommand{\@eightcolLTRfootnotetext}[1]{\insert\footinsv@r{\if@RTLcolumnfootno
12187 \def\baselinestretch{\m@m@footnote@spacing}%
12188 \reset@font\LTRfoottextfont
12189 \@preamfntext
12190 \protected@edef\@currentlabel{%
12191 \csname p@footnote\endcsname\@thefnmark}%
12192 \color@begingroup
12193 \@eightcolLTRfootfmt{#1}%
12194 \color@endgroup}%
12195 \m@mmf@prepare}
12196 \bidi@ensure@newcommand{\@eightcolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
12197 \def\baselinestretch{\m@m@footnote@spacing}%
12198 \reset@font\RTLfoottextfont
12199 \@preamfntext
12200 \protected@edef\@currentlabel{%
12201 \csname p@footnote\endcsname\@thefnmark}%
12202 \color@begingroup
12203 \@eightcolRTLfootfmt{#1}%
12204 \color@endgroup}%
12205 \m@mmf@prepare}
12206 \bidi@ensure@newcommand{\@preameightfmt}{%
12207 \hspace{.125\hspace}
12208 \parindent=\z@
12209 \tolerance=5000\relax
12210 \leavevmode}
12211 \bidi@ensure@newcommand{\@eightcolfootfmt}[1]{%
12212 \@preameightfmt
12213 {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
12214 \bidi@ensure@newcommand{\@eightcolLTRfootfmt}[1]{%
12215 \@preameightfmt
12216 {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
12217 \bidi@ensure@newcommand{\@eightcolRTLfootfmt}[1]{%
12218 \@preameightfmt
12219 {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
12220 \bidi@ensure@newcommand{\@mpeightcolfootnotetext}[1]{%
12221 \global\setbox\@mpfootinsv@r\vbox{\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
12222 \unvbox\@mpfootinsv@r
12223 \def\baselinestretch{\m@m@footnote@spacing}%
12224 \reset@font\foottextfont
12225 \hspace\columnwidth \@parboxrestore
12226 \protected@edef\@currentlabel{%

```



```

12227 \csname p@mpfootnote\endcsname\@thefnmark}%
12228 \color@begingroup
12229 \@eightcolfootfmt{#1}%
12230 \color@endgroup}%
12231 \m@mmf@prepare}
12232 \bidi@ensure@newcommand{\@mpeightcolLTRfootnotetext}[1]{%
12233 \global\setbox\@mpfootinsv@r\vbox{\@RTLfalse%
12234 \unvbox\@mpfootinsv@r
12235 \def\baselinestretch{\m@m@footnote@spacing}%
12236 \reset@font\LTRfoottextfont
12237 \hsize\columnwidth \@parboxrestore
12238 \if@RTLcolumnfootnotes\begin\fi
12239 \protected@edef\@currentlabel{%
12240 \csname p@mpfootnote\endcsname\@thefnmark}%
12241 \color@begingroup
12242 \@eightcolLTRfootfmt{#1}%
12243 \color@endgroup}%
12244 \m@mmf@prepare}
12245 \bidi@ensure@newcommand{\@mpeightcolRTLfootnotetext}[1]{%
12246 \global\setbox\@mpfootinsv@r\vbox{\@RTLtrue%
12247 \unvbox\@mpfootinsv@r
12248 \def\baselinestretch{\m@m@footnote@spacing}%
12249 \reset@font\RTLfoottextfont
12250 \hsize\columnwidth \@parboxrestore
12251 \protected@edef\@currentlabel{%
12252 \csname p@mpfootnote\endcsname\@thefnmark}%
12253 \color@begingroup
12254 \@eightcolRTLfootfmt{#1}%
12255 \color@endgroup}%
12256 \m@mmf@prepare}
12257 \bidi@ensure@newcommand{\m@make@eightcol@footgroup}[1]{%
12258 \@namedef{@eightcol@footgroup#1}{%
12259 \def\baselinestretch{\m@m@footnote@spacing}%
12260 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12261 \m@mrigidbalance{\@nameuse{footins#1}}{8}{\splittopskip}}}%
12262 \bidi@ensure@newcommand{\m@make@mpeightcol@footgroup}[1]{%
12263 \@namedef{@mpeightcol@footgroup#1}{%
12264 \def\baselinestretch{\m@m@footnote@spacing}%
12265 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12266 \m@mrigidbalance{\@nameuse{@mpfootins#1}}{8}{\splittopskip}}}%
12267 \bidi@ensure@newcommand{\ninecolumnfootnotes}{%
12268 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
12269 \@bidi@before@Hy@hyperfootnotes
12270 \let\@footnotetext\@ninecolfootnotetext
12271 \let\@LTRfootnotetext\@ninecolLTRfootnotetext
12272 \let\@RTLfootnotetext\@ninecolRTLfootnotetext
12273 \dimen\footinsv@r=9\footinsdim
12274 \count\footinsv@r=111\relax
12275 \m@make@ninecol@footgroup{v@r}%
12276 \let\@footgroupv@r\@ninecol@footgroupv@r
12277 \let\@mpfootnotetext\@mpninecolfootnotetext
12278 \let\@mpLTRfootnotetext\@mpninecolLTRfootnotetext
12279 \let\@mpRTLfootnotetext\@mpninecolRTLfootnotetext
12280 \@bidi@after@Hy@hyperfootnotes

```



```

12281 \m@make@mpninecol@footgroup{v@r}%
12282 \let\mp@footgroupv@r\@mpninecol@footgroupv@r
12283 \@ifstar\@bidi@star@footmarkwidth\@bidi@normal@footmarkwidth
12284 }
12285 \bidi@ensure@newcommand{\@ninecolfootnotetext}[1]{\insert\footinsv@r{\if@RTL@footnote\@RTLtr
12286 \def\baselinestretch{\m@m@footnote@spacing}%
12287 \reset@font\foottextfont
12288 \@preamfntext
12289 \protected@edef\@currentlabel{%
12290 \csname p@footnote\endcsname\@thefnmark}%
12291 \color@begingroup
12292 \@ninecolfootfmt{#1}%
12293 \color@endgroup}%
12294 \m@mmf@prepare}
12295 \bidi@ensure@newcommand{\@ninecolLTRfootnotetext}[1]{\insert\footinsv@r{\if@RTLcolumnfootnot
12296 \def\baselinestretch{\m@m@footnote@spacing}%
12297 \reset@font\LTRfoottextfont
12298 \@preamfntext
12299 \protected@edef\@currentlabel{%
12300 \csname p@footnote\endcsname\@thefnmark}%
12301 \color@begingroup
12302 \@ninecolLTRfootfmt{#1}%
12303 \color@endgroup}%
12304 \m@mmf@prepare}
12305 \bidi@ensure@newcommand{\@ninecolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
12306 \def\baselinestretch{\m@m@footnote@spacing}%
12307 \reset@font\RTLfoottextfont
12308 \@preamfntext
12309 \protected@edef\@currentlabel{%
12310 \csname p@footnote\endcsname\@thefnmark}%
12311 \color@begingroup
12312 \@ninecolRTLfootfmt{#1}%
12313 \color@endgroup}%
12314 \m@mmf@prepare}
12315 \bidi@ensure@newcommand{\@preamninefmt}{%
12316 \hspace{.1\hsize}
12317 \parindent=\z@
12318 \tolerance=5000\relax
12319 \leavevmode}
12320 \bidi@ensure@newcommand{\@ninecolfootfmt}[1]{%
12321 \@preamninefmt
12322 {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
12323 \bidi@ensure@newcommand{\@ninecolLTRfootfmt}[1]{%
12324 \@preamninefmt
12325 {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
12326 \bidi@ensure@newcommand{\@ninecolRTLfootfmt}[1]{%
12327 \@preamninefmt
12328 {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
12329 \bidi@ensure@newcommand{\@mpninecolfootnotetext}[1]{%
12330 \global\setbox\@mpfootinsv@r\vbox{\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
12331 \unvbox\@mpfootinsv@r
12332 \def\baselinestretch{\m@m@footnote@spacing}%
12333 \reset@font\foottextfont
12334 \hspace\columnwidth \@parboxrestore

```



```

12335 \protected@edef\@currentlabel{%
12336 \csname p@mpfootnote\endcsname\@thefnmark}%
12337 \color@begingroup
12338 \@ninecolfootfmt{#1}%
12339 \color@endgroup}%
12340 \m@mmf@prepare}
12341 \bidi@ensure@newcommand{\@mpninecolLTRfootnotetext}[1]{%
12342 \global\setbox\@mpfootinsv@r\vbox{\@RTLfalse%
12343 \unvbox\@mpfootinsv@r
12344 \def\baselinestretch{\m@m@footnote@spacing}%
12345 \reset@font\LTRfoottextfont
12346 \hsize\columnwidth \@parboxrestore
12347 \if@RTLcolumnfootnotes\beginL\fi
12348 \protected@edef\@currentlabel{%
12349 \csname p@mpfootnote\endcsname\@thefnmark}%
12350 \color@begingroup
12351 \@ninecolLTRfootfmt{#1}%
12352 \color@endgroup}%
12353 \m@mmf@prepare}
12354 \bidi@ensure@newcommand{\@mpninecolRTLfootnotetext}[1]{%
12355 \global\setbox\@mpfootinsv@r\vbox{\@RTLtrue%
12356 \unvbox\@mpfootinsv@r
12357 \def\baselinestretch{\m@m@footnote@spacing}%
12358 \reset@font\RTLfoottextfont
12359 \hsize\columnwidth \@parboxrestore
12360 \protected@edef\@currentlabel{%
12361 \csname p@mpfootnote\endcsname\@thefnmark}%
12362 \color@begingroup
12363 \@ninecolRTLfootfmt{#1}%
12364 \color@endgroup}%
12365 \m@mmf@prepare}
12366 \bidi@ensure@newcommand{\m@make@ninecol@footgroup}[1]{%
12367 \@namedef{\@ninecol@footgroup#1}{%
12368 \def\baselinestretch{\m@m@footnote@spacing}%
12369 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12370 \m@mrigidbalance{\@nameuse{footins#1}}{9}{\splittopskip}}}%
12371 \bidi@ensure@newcommand{\m@make@mpninecol@footgroup}[1]{%
12372 \@namedef{\@mpninecol@footgroup#1}{%
12373 \def\baselinestretch{\m@m@footnote@spacing}%
12374 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12375 \m@mrigidbalance{\@nameuse{\@mpfootins#1}}{9}{\splittopskip}}}%
12376 \bidi@ensure@newcommand{\tencolumnfootnotes}{%
12377 \@namedef{foottextfontv@r}{\foottextfont}% \ % [RS]
12378 \@bidi@before@Hy@hyperfootnotes
12379 \let\@footnotetext\@tencolfootnotetext
12380 \let\@LTRfootnotetext\@tencolLTRfootnotetext
12381 \let\@RTLfootnotetext\@tencolRTLfootnotetext
12382 \dimen\footinsv@r=10\footinsdim
12383 \count\footinsv@r=100\relax
12384 \m@make@tencol@footgroup{v@r}%
12385 \let\@footgroupv@r\@tencol@footgroupv@r
12386 \let\@mpfootnotetext\@mptencolfootnotetext
12387 \let\@mpLTRfootnotetext\@mptencolLTRfootnotetext
12388 \let\@mpRTLfootnotetext\@mptencolRTLfootnotetext

```



```

12389 \@bidi@after@Hy@hyperfootnotes
12390 \m@make@emptencol@footgroup{v@r}%
12391 \let@mp@footgroupv@r\@emptencol@footgroupv@r
12392 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
12393 }
12394 \bidi@ensure@newcommand{\@tencolfootnotetext}[1]{\insert\footinsv@r{\if@RTL@footnote\@RTLtru
12395 \def\baselinestretch{\m@m@footnote@spacing}%
12396 \reset@font\foottextfont
12397 \@preamfntext
12398 \protected@edef\@currentlabel{%
12399 \csname p@footnote\endcsname\@thefnmark}%
12400 \color@begingroup
12401 \@tencolfootfmt{#1}%
12402 \color@endgroup}%
12403 \m@mmf@prepare}
12404 \bidi@ensure@newcommand{\@tencolLTRfootnotetext}[1]{\insert\footinsv@r{\if@RTLcolumnfootnote
12405 \def\baselinestretch{\m@m@footnote@spacing}%
12406 \reset@font\LTRfoottextfont
12407 \@preamfntext
12408 \protected@edef\@currentlabel{%
12409 \csname p@footnote\endcsname\@thefnmark}%
12410 \color@begingroup
12411 \@tencolLTRfootfmt{#1}%
12412 \color@endgroup}%
12413 \m@mmf@prepare}
12414 \bidi@ensure@newcommand{\@tencolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
12415 \def\baselinestretch{\m@m@footnote@spacing}%
12416 \reset@font\RTLfoottextfont
12417 \@preamfntext
12418 \protected@edef\@currentlabel{%
12419 \csname p@footnote\endcsname\@thefnmark}%
12420 \color@begingroup
12421 \@tencolRTLfootfmt{#1}%
12422 \color@endgroup}%
12423 \m@mmf@prepare}
12424 \bidi@ensure@newcommand{\@preamtenfmt}{%
12425 \hspace{.1\hspace}
12426 \parindent=\z@
12427 \tolerance=5000\relax
12428 \leavevmode}
12429 \bidi@ensure@newcommand{\@tencolfootfmt}[1]{%
12430 \@preamtenfmt
12431 {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
12432 \bidi@ensure@newcommand{\@tencolLTRfootfmt}[1]{%
12433 \@preamtenfmt
12434 {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
12435 \bidi@ensure@newcommand{\@tencolRTLfootfmt}[1]{%
12436 \@preamtenfmt
12437 {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
12438 \bidi@ensure@newcommand{\@emptencolfootnotetext}[1]{%
12439 \global\setbox\@mpfootinsv@r\vbox{\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
12440 \unvbox\@mpfootinsv@r
12441 \def\baselinestretch{\m@m@footnote@spacing}%
12442 \reset@font\foottextfont

```



```

12443 \hsize\columnwidth \@parboxrestore
12444 \protected@edef\@currentlabel{%
12445 \csname p@mpfootnote\endcsname\@thefnmark}%
12446 \color@begingroup
12447 \@tencolfootfmt{#1}%
12448 \color@endgroup}%
12449 \m@mmf@prepare}
12450 \bidi@ensure@newcommand{\@mptencolLTrfootnotetext}[1]{%
12451 \global\setbox\@mpfootinsv@r\vbox{\@RTLfalse%
12452 \unvbox\@mpfootinsv@r
12453 \def\baselinestretch{\m@m@footnote@spacing}%
12454 \reset@font\LTrfoottextfont
12455 \hsize\columnwidth \@parboxrestore
12456 \if@RTLcolumnfootnotes\beginL\fi
12457 \protected@edef\@currentlabel{%
12458 \csname p@mpfootnote\endcsname\@thefnmark}%
12459 \color@begingroup
12460 \@tencolLTrfootfmt{#1}%
12461 \color@endgroup}%
12462 \m@mmf@prepare}
12463 \bidi@ensure@newcommand{\@mptencolRTLfootnotetext}[1]{%
12464 \global\setbox\@mpfootinsv@r\vbox{\@RTLtrue%
12465 \unvbox\@mpfootinsv@r
12466 \def\baselinestretch{\m@m@footnote@spacing}%
12467 \reset@font\RTLfoottextfont
12468 \hsize\columnwidth \@parboxrestore
12469 \protected@edef\@currentlabel{%
12470 \csname p@mpfootnote\endcsname\@thefnmark}%
12471 \color@begingroup
12472 \@tencolRTLfootfmt{#1}%
12473 \color@endgroup}%
12474 \m@mmf@prepare}
12475 \bidi@ensure@newcommand{\m@make@tencol@footgroup}[1]{%
12476 \@namedef{\@tencol@footgroup#1}{%
12477 \def\baselinestretch{\m@m@footnote@spacing}%
12478 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12479 \m@mrigidbalance{\@nameuse{footins#1}}{10}{\splittopskip}}}%
12480 \bidi@ensure@newcommand{\m@make@mptencol@footgroup}[1]{%
12481 \@namedef{\@mptencol@footgroup#1}{%
12482 \def\baselinestretch{\m@m@footnote@spacing}%
12483 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12484 \m@mrigidbalance{\@nameuse{\@mpfootins#1}}{10}{\splittopskip}}}%
12485 \bidi@ensure@newcommand{\m@munvxh}[1]{%
12486 \setbox0=\vbox{\unvbox#1%
12487 \global\setbox1=\lastbox}%
12488 \unhbox1
12489 \unskip
12490 \unskip
12491 \unpenalty
12492 \hskip\m@mipn@skip}
12493 \bidi@ensure@newcommand{\m@mungebox}{%
12494 \setbox0=\hbox{\m@munvxh0}%
12495 \dp0=\z@
12496 \ht0=\footfudgefactor\wd0

```



```

12497 \box0
12498 \penalty0}
12499 \newskip\m@mipn@skip
12500 \bidi@ensure@newcommand*{\m@minterparanoteglue}[1]{%
12501   {\foottextfont\global\m@mipn@skip=#1\relax}}
12502 \m@minterparanoteglue{1em plus.4em minus.4em}
12503 \@ifpackageloaded{multicol}{%
12504 \bidi@ensure@newcommand*{\m@mmakehboxofhboxes}{%
12505   \hsize\textwidth%
12506   \setbox0=\hbox{}}%
12507   \loop
12508     \unpenalty
12509     \setbox2=\lastbox
12510     \ifhbox2
12511       \setbox0=\hbox{\box2\unhbox0}
12512   \repeat}
12513 }{%
12514 \bidi@ensure@newcommand*{\m@mmakehboxofhboxes}{%
12515   \setbox0=\hbox{}}%
12516   \loop
12517     \unpenalty
12518     \setbox2=\lastbox
12519     \ifhbox2
12520       \setbox0=\hbox{\box2\unhbox0}
12521   \repeat}}
12522 \bidi@ensure@newcommand*{\m@mremovehboxes}{\setbox0=\lastbox
12523   \ifhbox0{\m@mremovehboxes}\unhbox0 \fi}
12524 \newcommand*\AddExtraParaSkip[1]{%
12525   \if@bidi@csdef{footfudgefactor}{%
12526     \PackageError{bidi}{%
12527       The control sequence `string\AddExtraParaSkip`
12528       must be used before the control sequence
12529       `string\paragraphfootnotes' in the preamble%
12530     }\@ehc
12531   }{%
12532     \def\bidi@xparaskip{\advance\@tempdima#1\relax}%
12533   }%
12534 }
12535 \bidi@ensure@newcommand{\paragraphfootnotes}{%
12536   \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
12537   \@bidi@before@Hy@hyperfootnotes
12538   \let\@footnotetext\@parafootnotetext
12539   \let\@LTRfootnotetext\@paraLTRfootnotetext
12540   \let\@RTLfootnotetext\@paraRTLfootnotetext
12541   \dimen\footinsv@r=\footinsdim
12542   \count\footinsv@r=1000\relax
12543   \m@make@para@footgroup{v@r}%
12544   \m@make@para@footstart{v@r}%
12545   \let\@footgroupv@r\@para@footgroupv@r
12546   \let\@footstartv@r\@para@footstartv@r
12547   \dimen\footinsv@l=\footinsdim
12548   \count\footinsv@l=1000\relax
12549   \bidi@make@para@LTRfootgroup{v@l}%
12550   \m@make@para@footstart{v@l}%

```



```

12551 \bidi@make@para@footstart@@{v@1}%
12552 \let\@LTRfootgroupv@1\@para@LTRfootgroupv@1
12553 \let\@footstartv@1\@para@footstartv@1
12554 \let\@@footstart@@v@1\@@para@footstart@@v@1
12555 \let\@mpfootnotetext\@mpparafootnotetext
12556 \let\@mpLTRfootnotetext\@mpparaLTRfootnotetext
12557 \let\@mpRTLfootnotetext\@mpparaRTLfootnotetext
12558 \@bidi@after@Hy@hyperfootnotes
12559 \m@make@mppara@footgroup{v@r}%
12560 \bidi@make@mppara@LTRfootgroup{v@1}%
12561 \let\mp@footgroupv@r\@mppara@footgroupv@r
12562 \let\mp@LTRfootgroupv@1\@mppara@LTRfootgroupv@1
12563 \begingroup
12564 \def\baselinestretch{\m@m@footnote@spacing}%
12565 \foottextfont
12566 \@tempdima\footnotesep
12567 \advance\@tempdima -\ht\strutbox
12568 \ifdim\@tempdima<\z@ \@tempdima\z@ \fi
12569 \advance\@tempdima.5\normalbaselineskip
12570 \bidi@xparaskip
12571 \xdef\bidi@paraskip{\the\@tempdima\relax}%
12572 \ifdim\skip\footinsv@r>\bigskipamount
12573 \else
12574 \global\advance\skip\footinsv@r\bidi@paraskip
12575 \fi
12576 \ifdim\skip\footinsv@1>\bigskipamount
12577 \else
12578 \global\advance\skip\footinsv@1\bidi@paraskip
12579 \fi
12580 \@tempdima\normalbaselineskip
12581 \multiply \@tempdima \@cclvi
12582 \@tempdimb \columnwidth
12583 \divide \@tempdimb \@cclvi
12584 \divide \@tempdima \@tempdimb
12585 \xdef\footfudgefactor{\strip@pt\@tempdima}%
12586 \endgroup
12587 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
12588 }
12589 \newcommand{\normalRTLparaLTRfootnotes}{%
12590 \@namedef{foottextfontv@r}{\foottextfont}%
12591 \@bidi@before@Hy@hyperfootnotes
12592 \if@RTL@footnote
12593 \let\@footnotetext\m@mold@footnotetext
12594 \else
12595 \let\@footnotetext\@parafootnotetext
12596 \fi
12597 \let\@LTRfootnotetext\@paraLTRfootnotetext
12598 \let\@RTLfootnotetext\m@mold@RTLfootnotetext
12599 \dimen\footinsv@r=\footinsdim
12600 \count\footinsv@r=1000\relax
12601 \m@make@para@footgroup{v@r}%
12602 \m@make@para@footstart{v@r}%
12603 \let\@footgroupv@r\@para@footgroupv@r
12604 \let\@footstartv@r\@para@footstartv@r

```



```

12605 \dimen\footinsv@l=\footinsdim
12606 \count\footinsv@l=1000\relax
12607 \bidi@make@para@LTRfootgroup{v@l}%
12608 \m@make@para@footstart{v@l}%
12609 \bidi@make@para@footstart@{v@l}%
12610 \let\@LTRfootgroupv@l\@para@LTRfootgroupv@l
12611 \let\@footstartv@l\@para@footstartv@l
12612 \let\@@footstart@v@l\@para@footstart@v@l
12613 \if@RTL@footnote
12614 \let\@mpfootnotetext\m@mold@mpfootnotetext
12615 \else
12616 \let\@mpfootnotetext\@mpparafootnotetext
12617 \fi
12618 \let\@mpLTRfootnotetext\@mpparaLTRfootnotetext
12619 \let\@mpRTLfootnotetext\m@mold@mpRTLfootnotetext
12620 \@bidi@after@Hy@hyperfootnotes
12621 \m@make@mppara@footgroup{v@r}%
12622 \bidi@make@mppara@LTRfootgroup{v@l}%
12623 \let\mp@footgroupv@r\@mppara@footgroupv@r
12624 \let\mp@LTRfootgroupv@l\@mppara@LTRfootgroupv@l
12625 \begingroup
12626 \def\baselinestretch{\m@m@footnote@spacing}%
12627 \foottextfont
12628 \@tempdima\footnotesep
12629 \advance\@tempdima -\ht\strutbox
12630 \ifdim\@tempdima<\z@ \@tempdima\z@ \fi
12631 \advance\@tempdima.5\normalbaselineskip
12632 \bidi@xparaskip
12633 \xdef\bidi@paraskip{\the\@tempdima\relax}%
12634 \ifdim\skip\footinsv@r>\bigskipamount
12635 \else
12636 \global\advance\skip\footinsv@r\bidi@paraskip
12637 \fi
12638 \ifdim\skip\footinsv@l>\bigskipamount
12639 \else
12640 \global\advance\skip\footinsv@l\bidi@paraskip
12641 \fi
12642 \@tempdima\normalbaselineskip
12643 \multiply \@tempdima \@cclvi
12644 \@tempdimb \columnwidth
12645 \divide \@tempdimb \@cclvi
12646 \divide \@tempdima \@tempdimb
12647 \xdef\footfudgefactor{\strip@pt\@tempdima}%
12648 \endgroup
12649 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
12650 }
12651 \let\bidi@xparaskip\relax
12652 \@onlypreamble\AddExtraParaSkip
12653 \bidi@ensure@newcommand{\@parafootnotetext}[1]{\insert
12654 \if@RTL@footnote
12655 \footinsv@r
12656 \else
12657 \footinsv@l
12658 \fi

```



```

12659 {%
12660 \let\bid@RTL@everypar\@empty%
12661 \def\baselinestretch{\m@mm@footnote@spacing}%
12662 \reset@font\foottextfont
12663 \@preamfntext
12664 \protected@edef\@currentlabel{%
12665 \csname p@footnote\endcsname\@thefnmark}%
12666 \setbox0=\vbox{\hsize=\maxdimen
12667 \color@begingroup
12668 \noindent \@parafootfmt{#1}%
12669 \color@endgroup}%
12670 \m@mmungebox}\m@mmf@prepare}
12671 \bid@ensure@newcommand{\@paraLTRfootnotetext}[1]{\insert\footinsv@l{%
12672 \let\bid@RTL@everypar\@empty%
12673 \def\baselinestretch{\m@mm@footnote@spacing}%
12674 \reset@font\LTRfoottextfont
12675 \@preamfntext
12676 \protected@edef\@currentlabel{%
12677 \csname p@footnote\endcsname\@thefnmark}%
12678 \setbox0=\vbox{\hsize=\maxdimen
12679 \color@begingroup
12680 \noindent \@paraLTRfootfmt{#1}%
12681 \color@endgroup}%
12682 \m@mmungebox}\m@mmf@prepare}
12683 \bid@ensure@newcommand{\@paraRTLfootnotetext}[1]{\insert\footinsv@r{%
12684 \let\bid@RTL@everypar\@empty%
12685 \def\baselinestretch{\m@mm@footnote@spacing}%
12686 \reset@font\RTLfoottextfont
12687 \@preamfntext
12688 \protected@edef\@currentlabel{%
12689 \csname p@footnote\endcsname\@thefnmark}%
12690 \setbox0=\vbox{\hsize=\maxdimen
12691 \color@begingroup
12692 \noindent \@paraRTLfootfmt{#1}%
12693 \color@endgroup}%
12694 \m@mmungebox}\m@mmf@prepare}
12695 \bid@ensure@newcommand{\@parafootfmt}[1]{%
12696 \parindent=\z@
12697 \parfillskip=0pt \@plus 1fil
12698 {\footfootmark\strut {\foottextfont #1}\penalty-10}}
12699 \bid@ensure@newcommand{\@paraLTRfootfmt}[1]{%
12700 \parindent=\z@
12701 \parfillskip=0pt \@plus 1fil
12702 {\LTRfootfootmark\strut {\LTRfoottextfont #1}\penalty-10}}
12703 \bid@ensure@newcommand{\@paraRTLfootfmt}[1]{%
12704 \parindent=\z@
12705 \parfillskip=0pt \@plus 1fil
12706 {\RTLfootfootmark\strut {\RTLfoottextfont #1}\penalty-10}}
12707 \bid@ensure@newcommand{\@mpparafootnotetext}[1]{%
12708 \global\setbox
12709 \if@RTL@footnote
12710 \@mpfootinsv@r
12711 \else
12712 \@mpfootinsv@l

```



```

12713 \fi
12714 \vbox{%
12715   \let\bidirTL@everypar\@empty%
12716   \def\baselinestretch{\m@m@footnote@spacing}%
12717   \unvbox
12718   \if@RTL@footnote
12719     \@mpfootinsv@r
12720   \else
12721     \@mpfootinsv@l
12722   \fi
12723   \reset@font\foottextfont
12724   \hsize\columnwidth \@parboxrestore
12725   \protected@edef\@currentlabel{%
12726     \csname p@mpfootnote\endcsname\@thefnmark}%
12727   \setbox0=\vbox{\hsize=\maxdimen
12728     \color@begingroup
12729     \noindent \@parafootfmt{#1}%
12730     \color@endgroup}%
12731   \m@mungebox}\m@mmf@prepare}
12732 \bidi@ensure@newcommand{\@mpparaLTRfootnotetext}[1]{%
12733   \global\setbox\@mpfootinsv@l\vbox{%
12734     \let\bidirTL@everypar\@empty%
12735     \def\baselinestretch{\m@m@footnote@spacing}%
12736     \unvbox\@mpfootinsv@l
12737     \reset@font\LTRfoottextfont
12738     \hsize\columnwidth \@parboxrestore
12739     \protected@edef\@currentlabel{%
12740       \csname p@mpfootnote\endcsname\@thefnmark}%
12741     \setbox0=\vbox{\hsize=\maxdimen
12742       \color@begingroup
12743       \noindent \@paraLTRfootfmt{#1}%
12744       \color@endgroup}%
12745     \m@mungebox}\m@mmf@prepare}
12746 \bidi@ensure@newcommand{\@mpparaRTLfootnotetext}[1]{%
12747   \global\setbox\@mpfootinsv@r\vbox{%
12748     \let\bidirTL@everypar\@empty%
12749     \def\baselinestretch{\m@m@footnote@spacing}%
12750     \unvbox\@mpfootinsv@r
12751     \reset@font\RTLfoottextfont
12752     \hsize\columnwidth \@parboxrestore
12753     \protected@edef\@currentlabel{%
12754       \csname p@mpfootnote\endcsname\@thefnmark}%
12755     \setbox0=\vbox{\hsize=\maxdimen
12756       \color@begingroup
12757       \noindent \@paraRTLfootfmt{#1}%
12758       \color@endgroup}%
12759     \m@mungebox}\m@mmf@prepare}
12760 \bidi@ensure@newcommand{\m@make@para@footgroup}[1]{%
12761   \@namedef{\@para@footgroup#1}{%
12762     \unvbox\@nameuse{footins#1}
12763     \@RTLtrue
12764     \m@makehboxofhboxes
12765     \setbox0=\hbox{\unhbox0 \m@removehboxes}%
12766     \@parboxrestore%

```



```

12767 \def\baselinestretch{\m@m@footnote@spacing}%
12768 \@nameuse{foottextfont#1}%
12769 \noindent\unhbox0\par}}
12770 \bidi@ensure@newcommand{\bidi@make@para@LTRfootgroup}[1]{%
12771 \@namedef{@para@LTRfootgroup#1}{%
12772 \unvbox\@nameuse{footins#1}
12773 \@RTLfalse
12774 \m@mmakehboxofhboxes
12775 \setbox0=\hbox{\unhbox0 \m@mremovehboxes}%
12776 \@parboxrestore%
12777 \def\baselinestretch{\m@m@footnote@spacing}%
12778 \@nameuse{foottextfont#1}%
12779 \noindent\unhbox0\par}}
12780 \bidi@ensure@newcommand{\m@m@make@mppara@footgroup}[1]{%
12781 \@namedef{@mppara@footgroup#1}{%
12782 \unvbox\@nameuse{@mpfootins#1}
12783 \@RTLtrue
12784 \m@mmakehboxofhboxes
12785 \setbox0=\hbox{\unhbox0 \m@mremovehboxes}%
12786 \def\baselinestretch{\m@m@footnote@spacing}%
12787 \@nameuse{foottextfont#1}%
12788 \noindent\unhbox0\par}}
12789 \bidi@ensure@newcommand{\bidi@make@mppara@LTRfootgroup}[1]{%
12790 \@namedef{@mppara@LTRfootgroup#1}{%
12791 \unvbox\@nameuse{@mpfootins#1}
12792 \@RTLfalse
12793 \m@mmakehboxofhboxes
12794 \setbox0=\hbox{\unhbox0 \m@mremovehboxes}%
12795 \def\baselinestretch{\m@m@footnote@spacing}%
12796 \@nameuse{foottextfont#1}%
12797 \noindent\unhbox0\par}}
12798 \bidi@ensure@newcommand{\m@m@make@para@footstart}[1]{%
12799 \@namedef{@para@footstart#1}{%
12800 \if@bidi@void@footins
12801 \bidi@mopfn@bottom
12802 \fi
12803 \leftskip=\z@
12804 \rightskip=\z@
12805 \parindent=\z@
12806 \vskip\skip\footins
12807 \if@bidi@void@footins
12808 \footnoterule
12809 \fi}}
12810 \bidi@ensure@newcommand{\bidi@make@para@footstart@@}[1]{%
12811 \@namedef{@@para@footstart@@#1}{%
12812 \leftskip=\z@
12813 \rightskip=\z@
12814 \parindent=\z@
12815 \vskip\skip\footins}}
12816 \bidi@ensure@newcommand*{\m@m@makecolfloats}{%
12817 \xdef\@freelist{\@freelist\@midlist}%
12818 \global\let\@midlist\@empty
12819 \@combinefloats}
12820 \bidi@ensure@newcommand*{\m@m@makecoltext}{%

```



```

12821 \ifvbox\@kludgeins
12822 \@makespecialcolbox
12823 \else
12824 \setbox\@outputbox \vbox to\@colht{%
12825 \@texttop
12826 \dimen@ \dp\@outputbox
12827 \unvbox \@outputbox
12828 \vskip -\dimen@
12829 \@textbottom}%
12830 \fi}
12831 \bidi@ensure@newcommand*{\m@m@makecolintro}{\}
12832 \bidi@ensure@newcommand*{\m@mopfootnote}{\setbox\@outputbox \vbox{%
12833 \boxmaxdepth\@maxdepth
12834 \@tempdima\dp\@cclv
12835 \unvbox\@cclv
12836 \vskip-\@tempdima
12837 \bidi@mopfn@bottom
12838 \vskip \skip\footins
12839 \color@begingroup
12840 \normalcolor
12841 \footnoterule
12842 \unvbox \footins
12843 \color@endgroup
12844 }%
12845 }
12846 \newcommand*{\bidi@mopfootnotebf}{\}
12847 \setbox\@outputbox \vbox{%
12848 \boxmaxdepth\@maxdepth
12849 \unvbox\@outputbox
12850 \bidi@mopfn@bottom
12851 \vskip\skip\footins
12852 \color@begingroup
12853 \normalcolor
12854 \footnoterule
12855 \unvbox \footins
12856 \color@endgroup
12857 }%
12858 }
12859 \gdef\mem@makecol{%
12860 \m@m@makecolintro
12861 \ifvoid\footins
12862 \global\@bidi@void@footinstrue
12863 \setbox\@outputbox \box\@cclv
12864 \else
12865 \global\@bidi@void@footinsfalse
12866 \m@mopfootnote
12867 \fi
12868 \m@m@doextrafeet
12869 \m@m@makecolfloats
12870 \m@m@makecoltext
12871 \global \maxdepth \@maxdepth}
12872 \gdef\bidi@makecolbf{%
12873 \m@m@makecolintro
12874 \setbox\@outputbox \box\@cclv

```



```

12875 \m@m@makecolfloats
12876 \ifvoid\footins
12877   \global\@bidi@void@footinstrue
12878 \else
12879   \global\@bidi@void@footinsfalse
12880   \bidi@mopfootnotebf
12881 \fi
12882 \m@m@doextrafeet
12883 \m@m@makecoltext
12884 \global \maxdepth \@maxdepth}
12885 \newcommand{\FeetAboveFloat}{\gdef\@makecol{\mem@makecol}}
12886 \newcommand{\FeetBelowFloat}{\gdef\@makecol{\bidi@makecolbf}}
12887 \newcommand\FeetAtBottom{\def\bidi@mopfn@bottom{\vfill\relax}}
12888 \newcommand\FeetBelowRagged{\let\bidi@mopfn@bottom\relax}
12889 \FeetAboveFloat
12890 \FeetBelowRagged

```

## 84 File extreport-xetex-bidi.def

```

12891 \ProvidesFile{extreport-xetex-bidi.def}[2017/06/09 v0.3 bidi adaptations for extreport class]
12892 \renewcommand*\l@part[2]{%
12893   \ifnum \c@tocdepth >-2\relax
12894     \addpenalty{-\@highpenalty}%
12895     \addvspace{2.25em \@plus\p@}%
12896     \begingroup
12897       \setlength\@tempdima{3em}%
12898       \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
12899       \parfillskip -\@pnumwidth
12900       {\leavevmode
12901         \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
12902       \nobreak
12903       \global\@nobreaktrue
12904       \everypar{\global\@nobreakfalse\everypar{}}%
12905     \endgroup
12906   \fi}
12907 \renewcommand*\l@chapter[2]{%
12908   \ifnum \c@tocdepth >\m@ne
12909     \addpenalty{-\@highpenalty}%
12910     \vskip 1.0em \@plus\p@
12911     \setlength\@tempdima{1.5em}%
12912     \begingroup
12913       \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
12914       \parfillskip -\@pnumwidth
12915       \leavevmode \bfseries
12916       \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
12917       \hskip -\if@RTL\rightskip\else\leftskip\fi
12918       #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
12919       \penalty\@highpenalty
12920     \endgroup
12921   \fi}
12922 \def\@makechapterhead#1{%
12923   \vspace*{50\p@}%
12924   {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi \normalfont
12925     \ifnum \c@secnumdepth >\m@ne

```



```

12926      \huge\bfseries \@chapapp\space \thechapter
12927      \par\nobreak
12928      \vskip 20\p@
12929      \fi
12930      \interlinepenalty\@M
12931      \Huge \bfseries #1\par\nobreak
12932      \vskip 40\p@
12933    }}
12934 \def\@makeschapterhead#1{%
12935   \vspace*{50\p@}%
12936   {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi
12937    \normalfont
12938    \interlinepenalty\@M
12939    \Huge \bfseries #1\par\nobreak
12940    \vskip 40\p@
12941   }}
12942 \renewcommand\left@footnoterule{%
12943   \kern-3\p@
12944   \hrule\@width.4\columnwidth
12945   \kern2.6\p@}
12946 \renewcommand\right@footnoterule{%
12947   \kern-3\p@
12948   \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
12949   \kern2.6\p@}
12950 \renewenvironment{thebibliography}[1]
12951   {\chapter*{\bibname
12952     \@mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}}%
12953     \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
12954     \bidi@thebibliography@font@hook%
12955     \list{\@biblabel{\@arabic{c@enumiv}}}%
12956       {\settowidth\labelwidth{\@biblabel{#1}}%
12957        \leftmargin\labelwidth
12958        \advance\leftmargin\labelsep
12959        \@openbib@code
12960        \usecounter{enumiv}%
12961        \let\p@enumiv\@empty
12962        \renewcommand\theenumiv{\@arabic{c@enumiv}}}%
12963     \sloppy\clubpenalty4000\widowpenalty4000%
12964     \sfcode\.\@m}
12965   {\def\@noitemerr
12966     {\@latex@warning{Empty `thebibliography' environment}}}%
12967     \endlist}
12968 \if@titlepage
12969 \renewcommand\maketitle{\begin{titlepage}%
12970 \let\footnotesize\small
12971 \let\right@footnoterule\relax
12972 \let\left@footnoterule\relax
12973 \let\textwidth\footnoterule\relax
12974 \let \footnote \thanks
12975 \null\vfil
12976 \vskip 60\p@
12977 \begin{center}%
12978   {\LARGE \@title \par}%
12979   \vskip 3em%

```



```

12980     {\large
12981       \lineskip .75em%
12982       \begin{tabular}[t]{c}%
12983         \@author
12984       \end{tabular}\par}%
12985       \vskip 1.5em%
12986       {\large \@date \par}%           % Set date in \large size.
12987 \end{center}\par
12988 \@thanks
12989 \vfil\null
12990 \end{titlepage}%
12991 \setcounter{footnote}{0}%
12992 \global\let\thanks\relax
12993 \global\let\maketitle\relax
12994 \global\let\@thanks\@empty
12995 \global\let\@author\@empty
12996 \global\let\@date\@empty
12997 \global\let\@title\@empty
12998 \global\let\title\relax
12999 \global\let\author\relax
13000 \global\let\date\relax
13001 \global\let\and\relax
13002 }
13003 \else
13004 \renewcommand\maketitle{\par
13005   \begingroup
13006     \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
13007     \def\@makefnmark{\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
13008     \long\def\@makefntext##1{\parindent 1em\noindent
13009       \hb@xt@1.8em{%
13010         \hss\@textsuperscript{\normalfont\@thefnmark}}##1}%
13011     \if@twocolumn
13012       \ifnum \col@number=\@ne
13013         \@maketitle
13014       \else
13015         \twocolumn[\@maketitle]%
13016       \fi
13017     \else
13018       \newpage
13019       \global\@topnum\z@ % Prevents figures from going at top of page.
13020       \@maketitle
13021     \fi
13022     \thispagestyle{plain}\@thanks
13023   \endgroup
13024   \setcounter{footnote}{0}%
13025   \global\let\thanks\relax
13026   \global\let\maketitle\relax
13027   \global\let\@maketitle\relax
13028   \global\let\@thanks\@empty
13029   \global\let\@author\@empty
13030   \global\let\@date\@empty
13031   \global\let\@title\@empty
13032   \global\let\title\relax
13033   \global\let\author\relax

```



```

13034 \global\let\date\relax
13035 \global\let\and\relax
13036 }
13037 \def\@maketitle{%
13038 \newpage
13039 \null
13040 \vskip 2em%
13041 \begin{center}%
13042 \let \footnote \thanks
13043 {\LARGE \@title \par}%
13044 \vskip 1.5em%
13045 {\large
13046 \lineskip .5em%
13047 \begin{tabular}[t]{c}%
13048 \@author
13049 \end{tabular}\par}%
13050 \vskip 1em%
13051 {\large \@date}%
13052 \end{center}%
13053 \par
13054 \vskip 1.5em}
13055 \fi
13056 \renewcommand\thesection {\thechapter\@SepMark\@arabic\c@section}
13057 \renewcommand\thesubsection {\thesection\@SepMark\@arabic\c@subsection}
13058 \renewcommand\thesubsubsection{\thesubsection \@SepMark\@arabic\c@subsubsection}
13059 \renewcommand\theparagraph {\thesubsubsection\@SepMark\@arabic\c@paragraph}
13060 \renewcommand\thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}
13061 \renewcommand\theequation{%
13062 \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@equation}
13063 \renewcommand\thefigure{%
13064 \ifnum \c@chapter>\z@\thechapter\@SepMark\fi \@arabic\c@figure}
13065 \renewcommand\thetable{%
13066 \ifnum \c@chapter>\z@\thechapter\@SepMark\fi\@arabic\c@table}

```

## 85 File fancybox-xetex-bidi.def

```

13067 \ProvidesFile{fancybox-xetex-bidi.def}[2013/05/01 v0.1 bidi adaptations for fancybox package]
13068 \def\fancy@oval#1#2#3{%
13069 \boxmaxdepth \maxdimen
13070 \@ovttrue \@ovbtrue \@ovltrue \@ovrtrue
13071 \@tfor\@tempa :=#3\do{\csname @ov\@tempa false\endcsname}%
13072 \@ovxx#1\relax
13073 \advance\@ovxx-\@wholewidth
13074 \@ovyy#2\relax
13075 \advance\@ovyy-\@wholewidth
13076 \@tempdimb \ifdim \@ovyy >\@ovxx \@ovxx\else \@ovyy \fi
13077 \advance\@tempdimb-2\p@
13078 \ifdim\@tempdimb>\the@cornersize\relax
13079 \@tempdimb=\the@cornersize
13080 \fi
13081 \@getcirc\@tempdimb
13082 \@ovro\ht\@tempboxa \@ovri\dp\@tempboxa
13083 \@ovdx\@ovxx \advance\@ovdx-\@tempdima \divide\@ovdx \tw@
13084 \@ovdy\@ovyy \advance\@ovdy-\@tempdima \divide\@ovdy \tw@

```



```

13085 \circlefont
13086 \setbox\@tempboxa\hbox{\beginL%
13087   \if@ovr \@ovvert32\kern -\@tempdima \fi
13088   \if@ovl \kern \@ovxx \@ovvert01\kern -\@tempdima \kern -\@ovxx \fi
13089   \if@ovt \@ovhorz \kern -\@ovxx \fi
13090   \if@ovb \raise \@ovyy \@ovhorz \fi\endL}%
13091 \advance\@ovdx\@ovro
13092 \advance\@ovdy\@ovro
13093 \advance\@ovxx\@wholewidth
13094 \wd\@tempboxa=\@ovxx
13095 \dp\@tempboxa=\z@}

```

## 86 File fancyhdr-xetex-bidi.def

```

13096 \ProvidesFile{fancyhdr-xetex-bidi.def}[2018/02/15 v0.7 bidi adaptations for fancyhdr package]
13097
13098 \let\f@nch@everypar\everypar
13099
13100 \def\f@nch@head#1#2#3#4#5{#1\hbox to\headwidth{\f@nch@reset
13101   \f@nch@vbox\headheight{\hbox
13102     {\rlap{\parbox[b]{\headwidth}{\bidi@raggedright#2}}\hfill
13103       \parbox[b]{\headwidth}{\centering#3}\hfill
13104       \llap{\parbox[b]{\headwidth}{\bidi@raggedleft#4}}}\headrule}}#5}
13105
13106 \def\f@nch@foot#1#2#3#4#5{#1\hbox to\headwidth{\f@nch@reset
13107   \f@nch@vbox\footskip{\footrule
13108     \hbox{\rlap{\parbox[t]{\headwidth}{\bidi@raggedright#2}}\hfill
13109       \parbox[t]{\headwidth}{\centering#3}\hfill
13110       \llap{\parbox[t]{\headwidth}{\bidi@raggedleft#4}}}\footrule}}#5}
13111

```

## 87 File fix2col-xetex-bidi.def

```

13112 \ProvidesFile{fix2col-xetex-bidi.def}[2017/05/06 v0.4 bidi adaptations for fix2col package]
13113 \def\RTL@outputdblcol{%
13114   \if@firstcolumn
13115     \global\@firstcolumnfalse
13116     \global\setbox\@leftcolumn\copy\@outputbox
13117     \splitmaxdepth\maxdimen
13118     \vbadness\maxdimen
13119     \setbox\@outputbox\vsplit\@outputbox to\maxdimen
13120     \toks@{\expandafter{\topmark}}%
13121     \xdef\@firstcoltopmark{\the\toks@}%
13122     \toks@\expandafter{\splitfirstmark}%
13123     \xdef\@firstcolfirstmark{\the\toks@}%
13124     \ifx\@firstcolfirstmark\@empty
13125       \global\let\@setmarks\relax
13126     \else
13127       \gdef\@setmarks{%
13128         \let\firstmark\@firstcolfirstmark
13129         \let\topmark\@firstcoltopmark}%
13130     \fi
13131 \else \global\@firstcolumntrue
13132 \setbox\@outputbox \vbox {\hbox to\textwidth {%

```



```

13133 \hskip \columnwidth
13134 \hfil \vrule width\columnseprule \hfil
13135 \hbox to\columnwidth {%
13136 \bidi@firstcolumn@status@write%
13137 \box\@leftcolumn \hss}%
13138 \hskip -\textwidth
13139 \hbox to\columnwidth{%
13140 \bidi@lastcolumn@status@write%
13141 \box\@outputbox \hss}%
13142 \hskip \columnsep
13143 \hskip \columnwidth }}%
13144 \@combinedblfloats \@setmarks \@outputpage
13145 \begingroup \@dblfloatplacement \@startdblcolumn
13146 \@whiles\if@colmade \fi
13147 {\@outputpage \@startdblcolumn }\endgroup
13148 \fi}
13149 \def\LTR@outputdblcol{%
13150 \if@firstcolumn
13151 \global\@firstcolumnfalse
13152 \global\setbox\@leftcolumn\copy\@outputbox
13153 \splitmaxdepth\maxdimen
13154 \vbadness\maxdimen
13155 \setbox\@outputbox\vsplit\@outputbox to\maxdimen
13156 \toks@\expandafter{\topmark}%
13157 \xdef\@firstcoltopmark{\the\toks@}%
13158 \toks@\expandafter{\splitfirstmark}%
13159 \xdef\@firstcolfirstmark{\the\toks@}%
13160 \ifx\@firstcolfirstmark\@empty
13161 \global\let\@setmarks\relax
13162 \else
13163 \gdef\@setmarks{%
13164 \let\firstmark\@firstcolfirstmark
13165 \let\topmark\@firstcoltopmark}%
13166 \fi
13167 \else
13168 \global\@firstcolumntrue
13169 \setbox\@outputbox\vbox{%
13170 \hb@xt@\textwidth{%
13171 \hb@xt@\columnwidth{%
13172 \bidi@firstcolumn@status@write%
13173 \box\@leftcolumn \hss}%
13174 \hfil
13175 \vrule \@width\columnseprule
13176 \hfil
13177 \hb@xt@\columnwidth{%
13178 \bidi@lastcolumn@status@write%
13179 \box\@outputbox \hss}}}%
13180 \@combinedblfloats
13181 \@setmarks
13182 \@outputpage
13183 \begingroup
13184 \@dblfloatplacement
13185 \@startdblcolumn
13186 \@whiles\if@colmade \fi{\@outputpage\@startdblcolumn}%

```



```

13187 \endgroup
13188 \fi}

```

## 88 File fleqn-xetex-bidi.def

```

13189 \ProvidesFile{fleqn-xetex-bidi.def}[2010/03/01 v0.1 bidi adaptations for fleqn tag for XeTeX]
13190 \renewcommand\[{ \relax
13191     \ifmmode\@badmath
13192     \else
13193         \begin{trivlist}%
13194             \@beginparpenalty\predisplaypenalty
13195             \@endparpenalty\postdisplaypenalty
13196             \item[]\leavevmode
13197             \hb@xt@\linewidth\bgroup \beginL$\m@th\displaystyle %$
13198                 \hskip\mathindent\bgroup
13199             \fi}
13200 \renewcommand\]{ \relax
13201     \ifmmode
13202         \egroup $\hfil% $
13203     \endL\egroup
13204     \end{trivlist}%
13205     \else \@badmath
13206     \fi}
13207 \renewenvironment{equation}%
13208 { \@beginparpenalty\predisplaypenalty
13209   \@endparpenalty\postdisplaypenalty
13210   \refstepcounter{equation}%
13211   \trivlist \item[]\leavevmode
13212     \hb@xt@\linewidth\bgroup\beginL $\m@th% $
13213       \displaystyle
13214       \hskip\mathindent}%
13215   {$\hfil % $
13216     \displaywidth\linewidth\hbox{\@eqnnum}%
13217   \endL\egroup
13218   \endtrivlist}

```

## 89 File float-xetex-bidi.def

```

13219 \ProvidesFile{float-xetex-bidi.def}[2013/04/04 v0.2 bidi adaptations for float package for XeTeX]
13220 \renewcommand\floatc@plain[2]{ \setbox\@tempboxa\hbox{ \@fs@cfont #1:} #2}%
13221 \ifdim\wd\@tempboxa>\hsize { \@fs@cfont #1:} #2\par
13222 \else\hbox to\hsize{ \ifRTL\beginR\fi\hfil\box\@tempboxa\hfil\ifRTL\endR\fi}\fi}
13223 \def\float@newx#1[#2]{ \@ifundefined{c@#1}{\newcounter{#1}[#2]%
13224   \expandafter\edef\csname the#1\endcsname{%
13225     \expandafter\noexpand\csname
13226       the#2\endcsname\@SepMark\noexpand\arabic{#1}}}%
13227   {\PackageWarning{float}{Can't redefine counter variable for #1.}}}

```

## 90 File floatrow-xetex-bidi.def

```

13228 \ProvidesFile{floatrow-xetex-bidi.def}[2013/04/08 v0.1 bidi adaptations for floatrow package]
13229 \renewcommand\flnew@within[1]{ \@addtoreset{FB@captive}{#1}%
13230   \expandafter\edef\csname theFB@captive\endcsname{%
13231     \expandafter\noexpand\csname

```



```
13232 the#1\endcsname\@SepMark\noexpand\arabic{\FB@captype}}}
```

## 91 File flowfram-xetex-bidi.def

```
13233 \ProvidesFile{flowfram-xetex-bidi.def}[2018/09/29 v0.5 bidi adaptations for flowfram package]
13234 \def\@outputdblcol{%
13235 \@nxtcol=\c@thisframe
13236 \c@curpg=\c@page
13237 \g@tnextcol{\@nxtcol}%
13238 \if@ff@nwpg % next flow frame starts on new page
13239 \global\@firstcolumntrue
13240 \setcolbox\c@thisframe
13241 \if@specialpage
13242 \global\@specialpagefalse
13243 \nameuse{ps@\@specialstyle}\relax
13244 \fi
13245 \if@twoside
13246 \ifodd\count\z@
13247 \let\@thehead\@oddhead
13248 \let\@thefoot\@oddfoot
13249 \else
13250 \let\@thehead\@evenhead
13251 \let\@thefoot\@evenfoot
13252 \fi
13253 \else
13254 \let\@thehead\@oddhead
13255 \let\@thefoot\@oddfoot
13256 \fi
13257 \@begindvi
13258 \@dynamicthehead\@dynamicthefoot
13259 \vbadness=\@M
13260 \setbox\@outputbox\vbox{\hbox to \textwidth{\@ff@do@allframes}}%
13261 \@combinedblfloats
13262 \@outputpage
13263 \advance\c@curpg by -\c@page\relax
13264 \whiledo{\c@curpg>0}{\advance\c@curpg by -1\relax
13265 \setbox\@outputbox\vbox{\hbox to \textwidth{\@ff@do@allframes}}%
13266 \outputpage}
13267 \begingroup
13268 \dblfloatplacement
13269 \startdblcolumn
13270 \whilesw \if@colmade \fi
13271 {\@outputpage \startdblcolumn }\endgroup
13272 \@resetst@tics
13273 \@resetdyn@mics
13274 \else % still on same page, save contents of box255
13275 \global\@firstcolumnfalse
13276 \setcolbox\c@thisframe
13277 \fi
13278 \global\c@thisframe=\@nxtcol
13279 \setcol{\c@thisframe}\relax
13280 \global\@colht\vsiz
13281 }
13282 \def\@outputpage{%
```



```

13283 \begingroup
13284 \let\protect\noexpand
13285 \@resetactivechars
13286 \global\let\@@if@newlist@if@newlist
13287 \global\@newlistfalse\@parboxrestore
13288 \global\let\@bidi@BeforeOutputPageShipOut\@firstofone
13289 \@bidi@beforeoutputpageshipouthook
13290 \shipout\vbox{\set@typeset@protect
13291 \aftergroup
13292 \endgroup
13293 \aftergroup
13294 \set@typeset@protect
13295 \reset@font\normalsize
13296 \bidi@font@@outputpage
13297 \normalsfcodes
13298 \let\label\@gobble
13299 \let\index\@gobble
13300 \let\glossary\@gobble
13301 \baselineskip\z@skip
13302 \lineskip\z@skip
13303 \lineskiplimit\z@
13304 \vskip\topmargin\moveright\@themargin
13305 \vbox{%
13306 \global\let\@bidi@BeforeHeader\@firstofone
13307 \@bidi@beforeheaderhook
13308 \vskip\headheight
13309 \vskip\headsep
13310 \global\let\@bidi@BeforeOutputBoxOutputPage\@firstofone
13311 \@bidi@beforeoutputboxoutputpagehook
13312 \box\@outputbox
13313 \global\let\@bidi@AfterOutputBoxOutputPage\@firstofone
13314 \@bidi@afteroutputboxoutputpagehook
13315 }}%
13316 \global\let\@bidi@AfterOutputPageShipOut\@firstofone
13317 \@bidi@afteroutputpageshipouthook
13318 \global\let@if@newlist\@@if@newlist
13319 \stepcounter{page}%
13320 \setcounter{displayedframe}{0}%
13321 \let\firstmark\botmark
13322 \global\let\@bidi@AtEndOutputPage\@firstofone
13323 \@bidi@atendoutputpagehook
13324 }
13325
13326
13327 \newcommand*\@bidi@s@tfftextcol{\ifthenelse{\equal{\ff@txtcol}{}}{}}{%
13328 \expandafter\bidicolor\ff@txtcol}}
13329
13330 \newcommand{\@bidi@ff@box}[3]{\@ffbackground{\vbox to#2
13331 {\hb@xt@ #1{\hss{\@bidi@s@tfftextcol #3}\hss}\vss\kern\z@}}}%
13332
13333
13334 \renewcommand*\@docolbox}[1]{%
13335 \edef\ff@frametype{%
13336 \csname @ff@frametype@\romannumeral#1\endcsname}%

```



```

13337 \edef\ff@col{\csname @ff@col@\romannumeral#1\endcsname}%
13338 \edef\ff@txtcol{\csname @ff@txtcol@\romannumeral#1\endcsname}%
13339 \edef\ff@backcol{\csname @ff@backcol@\romannumeral#1\endcsname}%
13340 \@ff@setoffset{#1}%
13341 \rotateframe{\csname @ff@angle@\romannumeral#1\endcsname}{%
13342 \ifthenelse{\boolean{columnframe\romannumeral#1}}{%
13343 \@ff@fbox{\csname colwidth\romannumeral#1\endcsname}%
13344 {\csname colheight\romannumeral#1\endcsname}}{%
13345 \expandafter\box\csname column\romannumeral#1\endcsname}{%
13346 \csname\ff@frametype\endcsname}%
13347 }%
13348 \bidi@ff@box{\csname colwidth\romannumeral#1\endcsname}%
13349 {\csname colheight\romannumeral#1\endcsname}}%
13350 \expandafter\box\csname column\romannumeral#1\endcsname}%
13351 }}}
13352 \@ifclassloaded{book}{%
13353 \renewcommand\theequation
13354 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@equation}
13355 \renewcommand \thefigure
13356 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@figure}
13357 \renewcommand \thetable
13358 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@table}
13359 \renewcommand \thechapter {\@arabic\c@chapter}
13360 \renewcommand \thesection {\thechapter\@SepMark\@arabic\c@section}
13361 \renewcommand \thesubsection {\thesection\@SepMark\@arabic\c@subsection}
13362 \renewcommand \thesubsubsection {\thesubsection \@SepMark\@arabic\c@subsubsection}
13363 \renewcommand \theparagraph {\thesubsubsection\@SepMark\@arabic\c@paragraph}
13364 \renewcommand \thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}}{}
13365 \@ifclassloaded{report}{%
13366 \renewcommand\theequation
13367 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@equation}
13368 \renewcommand \thefigure
13369 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@figure}
13370 \renewcommand \thetable
13371 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@table}
13372 \renewcommand \thechapter {\@arabic\c@chapter}
13373 \renewcommand \thesection {\thechapter\@SepMark\@arabic\c@section}
13374 \renewcommand \thesubsection {\thesection\@SepMark\@arabic\c@subsection}
13375 \renewcommand \thesubsubsection {\thesubsection \@SepMark\@arabic\c@subsubsection}
13376 \renewcommand \theparagraph {\thesubsubsection\@SepMark\@arabic\c@paragraph}
13377 \renewcommand \thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}}{}
13378 \renewcommand{\rotateframe}[2]{\if@ttb@rotate
13379 \rotatebox{#1}{\if@RTL\beginL\fi#2\if@RTL\endL\fi}%
13380 \else
13381 #2\relax
13382 \fi}

```

## 92 File footnote-xetex-bidi.def

```

13383 \ProvidesFile{footnote-xetex-bidi.def}[2017/08/09 v1.1 bidi footnote macros for XeTeX engine]
13384 \if@RTLmain\@RTL@footnotetrue\else\@RTL@footnotefalse\fi
13385 \newif\ifbidi@autofooterule
13386 \def\bidi@mpfootnoterule{\footnoterule}
13387 \newcounter{footdir@label}

```



```

13388 \renewcommand*{\thefootdir@label}{footdir@the\value{footdir@label}}
13389 \newcommand*{\footdir@write}{%
13390   \stepcounter{footdir@label}%
13391   \zref@labelbyprops{\thefootdir@label}{abspage}%
13392 }
13393 \newif\iffootdir@debug
13394 \newcommand*{\debugfootnotedirection}{\footdir@debugtrue}
13395 \newtoks\footdir@toks
13396 \newcommand*{\footdir@debug}[1]{%
13397   \iffootdir@debug
13398     \typeout{[footdir] #1}%
13399   \fi
13400 }
13401 %\@ifpackagelater{zref-abspage}{2012/10/27}{%
13402 %   \newcommand*{\footdir@LeftRightElse}{%
13403 %     \ltx@ifundefined{footdir@the\value{zabspage}}{%
13404 %       \footdir@debug{abspage \the\value{zabspage}: else}%
13405 %       \ltx@thirdofthree
13406 %     }{%
13407 %       \if\csname footdir@the\value{zabspage}\endcsname L%
13408 %         \footdir@debug{abspage \the\value{zabspage}: left}%
13409 %         \expandafter\ltx@firstofthree
13410 %       \else
13411 %         \footdir@debug{abspage \the\value{zabspage}: right}%
13412 %         \expandafter\ltx@secondofthree
13413 %       \fi
13414 %     }%
13415 %   }%
13416 %}{%
13417   \providecommand*{\c@zabspage}{\c@abspage}%
13418   \newcommand*{\footdir@LeftRightElse}{%
13419     \footdir@write
13420     \zifrefundefined{\thefootdir@label}{%
13421       \footdir@debug{abspage ??: else}%
13422       \ltx@thirdofthree
13423     }{%
13424       \edef\footdir@abspage{%
13425         \zref@extractdefault{\thefootdir@label}{abspage}{0}%
13426       }%
13427       \ltx@ifundefined{footdir@\footdir@abspage}{%
13428         \footdir@debug{\footdir@abspage: else}%
13429         \ltx@thirdofthree
13430       }{%
13431         \if\csname footdir@\footdir@abspage\endcsname L%
13432           \footdir@debug{\footdir@abspage: left}%
13433           \expandafter\ltx@firstofthree
13434         \else
13435           \footdir@debug{\footdir@abspage: right}%
13436           \expandafter\ltx@secondofthree
13437         \fi
13438       }%
13439     }%
13440   }%
13441 %}

```



```

13442 \newcommand*{\footdir@fntext}[1]{%
13443   \zifrefundefined{\thefootdir@label}{%
13444     }{%
13445       \edef\footdir@name{%
13446         footdir@\zref@extractdefault{\thefootdir@label}{abspage}{0}%
13447       }%
13448       \@ifundefined{\footdir@name}{%
13449         \expandafter\gdef\csname\footdir@name\endcsname{#1}%
13450       }{}%
13451     }%
13452 }
13453
13454 \newcommand*{\footdir@temp}[3]{%
13455   \@ifdefinable{#1}{%
13456     \let#1#2%
13457     \renewcommand{#2}[1]{%
13458       \footdir@write
13459       \footdir@fntext{#3}%
13460       \stepcounter{footdir@label}%
13461       \footdir@fntext{#3}%
13462       \footdir@toks{##1}%
13463       \footdir@toks\expandafter{%
13464         \the\expandafter\footdir@toks
13465         \expandafter
13466         \zref@labelbyprops\expandafter{\thefootdir@label}{abspage}%
13467       }%
13468       \expandafter#1\expandafter{\the\footdir@toks}%
13469     }%
13470   }%
13471 }
13472
13473 \def\right@footnoterule{%
13474   \kern-3\p@
13475   \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
13476   \kern2.6\p@}
13477 \def\left@footnoterule{\kern-3\p@
13478   \hrule \@width .4\columnwidth \kern 2.6\p@}
13479 \def\textwidth@footnoterule{\kern-3\p@
13480   \hrule \@width \columnwidth \kern 2.6\p@}
13481 \def\leftfootnoterule{%
13482   \bidi@autofootnoterulefalse%
13483   \def\footnoterule{\left@footnoterule}}
13484 \let\LRfootnoterule=\leftfootnoterule
13485 \def\rightfootnoterule{%
13486   \bidi@autofootnoterulefalse%
13487   \def\footnoterule{\right@footnoterule}}
13488 \def\textwidthfootnoterule{%
13489   \bidi@autofootnoterulefalse%
13490   \def\footnoterule{\textwidth@footnoterule}}
13491
13492
13493
13494 \def\auto@footnoterule{%
13495   \footdir@LeftRightElse%

```



```

13496 \left@footnoterule%
13497 \right@footnoterule%
13498 \left@footnoterule%
13499 }
13500
13501
13502
13503 \def\autofootnoterule{%
13504 \bidi@autofootnoteruletrue%
13505 \def\footnoterule{\auto@footnoterule}%
13506 }
13507
13508 \newcommand*\SplitFootnoteRule{%
13509 \gdef\split@prev{0}
13510 \let\pagefootnoterule\footnoterule
13511 \let\mpfootnoterule\footnoterule
13512 \def\splitfootnoterule{\kern-3\p@ \hrule \kern2.6\p@}
13513 \def\footnoterule{\relax
13514 \ifx \@listdepth\@mplistdepth
13515 \mpfootnoterule
13516 \else
13517 \ifnum\split@prev=\z@
13518 \pagefootnoterule
13519 \else
13520 \splitfootnoterule
13521 \fi
13522 \xdef\split@prev{\the\insertpenalties}%
13523 \fi
13524 }%
13525 }
13526
13527
13528
13529
13530 \def\RTLfootnote{\@ifnextchar[\@xRTLfootnote{\stepcounter\@mpfn
13531 \protected@xdef\@thefnmark{\thempfn}}%
13532 \@footnotemark\@RTLfootnotetext}}
13533 \def\@xRTLfootnote[#1]{%
13534 \begingroup
13535 \csname c@\@mpfn\endcsname #1\relax
13536 \unrestored@protected@xdef\@thefnmark{\thempfn}%
13537 \endgroup
13538 \@footnotemark\@RTLfootnotetext}
13539 \def\LTRfootnote{\@ifnextchar[\@xLTRfootnote{\stepcounter\@mpfn
13540 \protected@xdef\@thefnmark{\thempfn}}%
13541 \@footnotemark\@LTRfootnotetext}}
13542 \def\@xLTRfootnote[#1]{%
13543 \begingroup
13544 \csname c@\@mpfn\endcsname #1\relax
13545 \unrestored@protected@xdef\@thefnmark{\thempfn}%
13546 \endgroup
13547 \@footnotemark\@LTRfootnotetext}
13548
13549

```



```

13550 \def\setfootnoteRL{\@RTLfootnotetrue}
13551 \def\unsetfootnoteRL{\@RTLfootnotefalse}
13552 \def\setfootnoteLR{\unsetfootnoteRL}
13553
13554 \newcommand*{\bidi@footnotetext@font}{\footnotesize}
13555 \newcommand*{\bidi@LTRfootnotetext@font}{\footnotesize}
13556 \newcommand*{\bidi@RTLfootnotetext@font}{\footnotesize}
13557
13558 \long\def\@footnotetext#1{\insert\footins{%
13559   \if@RTLfootnote\@RTLtrue\else\@RTLfalse\fi%
13560   \reset@font%
13561   \bidi@footnotetext@font% \reset@font\footnotesize
13562   \interlinepenalty\interfootnotelinepenalty
13563   \splittopskip\footnotesep
13564   \splitmaxdepth \dp\strutbox \floatingpenalty \MM
13565   \hsize\columnwidth \@parboxrestore
13566   \protected@edef\@currentlabel{%
13567     \csname p@footnote\endcsname\@thefnmark
13568   }%
13569   \color@begingroup
13570     \makefnintext{%
13571       \rule{z@footnotesep\ignorespaces#1\@finalstrut\strutbox}%
13572     \color@endgroup}}%
13573
13574
13575 \long\def\@RTLfootnotetext#1{\insert\footins{%
13576   \@RTLtrue%
13577   \reset@font%
13578   \bidi@RTLfootnotetext@font% \reset@font\footnotesize
13579   \interlinepenalty\interfootnotelinepenalty
13580   \splittopskip\footnotesep
13581   \splitmaxdepth \dp\strutbox \floatingpenalty \MM
13582   \hsize\columnwidth \@parboxrestore
13583   \protected@edef\@currentlabel{%
13584     \csname p@footnote\endcsname\@thefnmark
13585   }%
13586   \color@begingroup
13587     \makefnintext{%
13588       \rule{z@footnotesep\ignorespaces#1\@finalstrut\strutbox}%
13589     \color@endgroup}}%
13590
13591 \long\def\@LTRfootnotetext#1{\insert\footins{%
13592   \@RTLfalse%
13593   \reset@font%
13594   \bidi@LTRfootnotetext@font% \reset@font\footnotesize
13595   \interlinepenalty\interfootnotelinepenalty
13596   \splittopskip\footnotesep
13597   \splitmaxdepth \dp\strutbox \floatingpenalty \MM
13598   \hsize\columnwidth \@parboxrestore
13599   \protected@edef\@currentlabel{%
13600     \csname p@footnote\endcsname\@thefnmark
13601   }%
13602   \color@begingroup
13603     \makefnintext{%

```



```

13604         \rule\z@\footnotesep\ignorespaces#1\@finalstrut\strutbox}%
13605     \color@endgroup}}%
13606
13607 \AtBeginDocument{%
13608 \if@RTL@footnote
13609     \newcommand*{\bidi@footdir@footnote}{R}
13610 \else
13611     \newcommand*{\bidi@footdir@footnote}{L}
13612 \fi%
13613 }
13614
13615 \footdir@temp\footdir@ORG@bidi@footnotetext\@footnotetext{\bidi@footdir@footnote}%
13616 \footdir@temp\footdir@ORG@bidi@RTLfootnotetext\@RTLfootnotetext{R}%
13617 \footdir@temp\footdir@ORG@bidi@LTRfootnotetext\@LTRfootnotetext{L}%
13618
13619 \long\def\@mpRTLfootnotetext#1{%
13620     \ifbidi@autofootnoterule\ifnum\c@mpfootnote=\@ne\global\let\bidi@mpfootnoterule\right@footnoterule%
13621     \global\setbox\@mpfootins\vbox{\@RTLtrue%
13622         \unvbox\@mpfootins
13623         \reset@font%
13624         \bidi@@RTLfootnotetext@font% \reset@font\footnotesize
13625         \hsize\columnwidth
13626         \@parboxrestore
13627         \protected@edef\@currentlabel
13628             {\csname p@mpfootnote\endcsname\@thefnmark}%
13629         \color@begingroup
13630         \@makefntext{%
13631             \rule\z@\footnotesep\ignorespaces#1\@finalstrut\strutbox}%
13632         \color@endgroup}}
13633 \long\def\@mpLTRfootnotetext#1{%
13634     \ifbidi@autofootnoterule\ifnum\c@mpfootnote=\@ne\global\let\bidi@mpfootnoterule\left@footnoterule%
13635     \global\setbox\@mpfootins\vbox{\@RTLfalse%
13636         \unvbox\@mpfootins
13637         \reset@font%
13638         \bidi@@LTRfootnotetext@font% \reset@font\footnotesize
13639         \hsize\columnwidth
13640         \@parboxrestore
13641         \protected@edef\@currentlabel
13642             {\csname p@mpfootnote\endcsname\@thefnmark}%
13643         \color@begingroup
13644         \@makefntext{%
13645             \rule\z@\footnotesep\ignorespaces#1\@finalstrut\strutbox}%
13646         \color@endgroup}}
13647 \long\def\@mpfootnotetext#1{%
13648     \ifbidi@autofootnoterule\ifnum\c@mpfootnote=\@ne\if@RTL@footnote\global\let\bidi@mpfootnoterule\right@footnoterule%
13649     \global\setbox\@mpfootins\vbox{\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
13650         \unvbox\@mpfootins
13651         \reset@font%
13652         \bidi@@footnotetext@font% \reset@font\footnotesize
13653         \hsize\columnwidth
13654         \@parboxrestore
13655         \protected@edef\@currentlabel
13656             {\csname p@mpfootnote\endcsname\@thefnmark}%
13657         \color@begingroup

```



```

13658     \@makefntext{%
13659         \rule{z@\footnotesep\ignorespaces#1\@finalstrut\strutbox}%
13660         \color@endgroup}}
13661 \def\@iiiminipage#1#2[#3]#4{%
13662     \leavevmode
13663     \@pboxswfalse
13664     \ifhboxRconstruct\@bidi@list@minipage@parbox@not@nobtrue\fi
13665     \ifRTL\if#1t\@bidi@list@minipage@parboxtrue\else\if#1b\@bidi@list@minipage@parboxtrue\fi
13666     \setlength\@tempdima{#4}%
13667     \def\@mpargs{{#1}{#2}[#3]{#4}}%
13668     \setbox\@tempboxa\vbox\bgroup
13669         \color@begingroup
13670         \hsize\@tempdima
13671         \textwidth\hsize \columnwidth\hsize
13672         \@parboxrestore
13673         \def\@mpfn{mpfootnote}\def\thempfn{\thempfootnote}\c@mpfootnote\z@
13674         \let\@footnotetext\@mpfootnotetext
13675         \let\@LTRfootnotetext\@mpLTRfootnotetext
13676         \let\@RTLfootnotetext\@mpRTLfootnotetext
13677         \let\@listdepth\@mplistdepth \@mplistdepth\z@
13678         \@minipagerestore
13679         \@setminipage}
13680 \def\endminipage{%
13681     \par
13682     \unskip
13683     \ifvoid\@mpfootins\else
13684         \vskip\skip\@mpfootins
13685         \normalcolor
13686         \bidi@mpfootnoterule
13687         \unvbox\@mpfootins
13688     \fi
13689     \@minipagefalse %% added 24 May 89
13690     \color@endgroup
13691     \egroup
13692     \expandafter\@iiiparbox\@mpargs{\unvbox\@tempboxa}}
13693 \def\LTRthanks#1{\footnotemark
13694     \protected@xdef\@thanks{\@thanks
13695         \protect\LTRfootnotetext[\the\c@footnote]{#1}}%
13696 }
13697 \def\LTRfootnotetext{%
13698     \@ifnextchar [\@xLTRfootnotenext
13699     {\protected@xdef\@thefnmark{\thempfn}%
13700     \@LTRfootnotetext}}
13701 \def\@xLTRfootnotenext[#1]{%
13702     \begingroup
13703     \csname c@\@mpfn\endcsname #1\relax
13704     \unrestored@protected@xdef\@thefnmark{\thempfn}%
13705     \endgroup
13706     \@LTRfootnotetext}
13707 \def\RTLthanks#1{\footnotemark
13708     \protected@xdef\@thanks{\@thanks
13709         \protect\RTLfootnotetext[\the\c@footnote]{#1}}%
13710 }
13711 \let\@thanks\@empty

```



```

13712 \def\RTLfootnotetext{%
13713     \@ifnextchar [\@xRTLfootnotenext
13714         {\protected@xdef\@thefnmark{\thempfn}%
13715         \@RTLfootnotetext}}
13716 \def\@xRTLfootnotenext[#1]{%
13717     \begingroup
13718         \csname c@\@mpfn\endcsname #1\relax
13719         \unrestored@protected@xdef\@thefnmark{\thempfn}%
13720     \endgroup
13721     \@RTLfootnotetext}
13722 \leftfootnoterule

```

### 93 File footnotebackref-xetex-bidi.def

```

13723 \ProvidesFile{footnotebackref-xetex-bidi.def}[2022/02/18 v0.1 bidi adaptations for footnote]
13724 \LetLtxMacro{\BHFN@OldLTRFootnote}{\LTRfootnote}
13725 \LetLtxMacro{\BHFN@OldRTLFootnote}{\RTLfootnote}
13726
13727 \renewcommand*\LTRfootnote{%
13728     \refstepcounter{BackrefHyperFootnoteCounter}%
13729     \edef\BackrefFootnoteTag{bhfn:\theBackrefHyperFootnoteCounter}%
13730     \label{\BackrefFootnoteTag}%
13731     \@ifnextchar [\Backref@OptLTRHyperFootnote\Backref@HyperLTRFootnote}
13732
13733 \renewcommand*\RTLfootnote{%
13734     \refstepcounter{BackrefHyperFootnoteCounter}%
13735     \edef\BackrefFootnoteTag{bhfn:\theBackrefHyperFootnoteCounter}%
13736     \label{\BackrefFootnoteTag}%
13737     \@ifnextchar [\Backref@OptRTLHyperFootnote\Backref@HyperRTLFootnote}
13738 \newcommand\Backref@HyperLTRFootnote[1]{%
13739     \BHFN@OldLTRFootnote{\Backref@HyperSymbol#1}}
13740
13741 \newcommand\Backref@HyperRTLFootnote[1]{%
13742     \BHFN@OldRTLFootnote{\Backref@HyperSymbol#1}}
13743
13744 \newcommand\Backref@OptHyperLTRFootnote[2][\empty]{%
13745     \BHFN@OldLTRFootnote[#1]{\Backref@HyperSymbol#2}}
13746
13747 \newcommand\Backref@OptHyperRTLFootnote[2][\empty]{%
13748     \BHFN@OldRTLFootnote[#1]{\Backref@HyperSymbol#2}}
13749
13750 \bidi@AfterFile{extrafootnotefeatures-xetex-bidi.def}{%
13751 \ifFootnoteBackref@numberlinked
13752 \renewcommand{\footfootmark}{%
13753     \ifdim\footmarkwidth < \z@
13754         \llap{\hb@xt@ -\footmarkwidth{%
13755             \hss\normalfont\footscript{\hyperref[\BackrefFootnoteTag]{\@thefnmark}}}%
13756             \hspace*{-\footmarkwidth}}}%
13757     \else
13758         \ifdim\footmarkwidth = \z@
13759             {\normalfont\footscript{\hyperref[\BackrefFootnoteTag]{\@thefnmark}}}%
13760         \else
13761             \hb@xt@\footmarkwidth{\hss\normalfont\footscript{\hyperref[\BackrefFootnoteTag]{\@thefnmark}}}
13762         \fi

```



```

13763 \fi}
13764 \renewcommand{\LTRfootfootmark}{%
13765 \ifdim\footmarkwidth < \z@
13766 \llap{\hb@xt@ -\footmarkwidth{%
13767 \hss\normalfont\LTRfootscript{\hyperref[\BackrefFootnoteTag]{\@thefnmark}}}%
13768 \hspace*{-\footmarkwidth}}}%
13769 \else
13770 \ifdim\footmarkwidth = \z@
13771 {\normalfont\LTRfootscript{\hyperref[\BackrefFootnoteTag]{\@thefnmark}}}%
13772 \else
13773 \hb@xt@\footmarkwidth{\hss\normalfont\LTRfootscript{\hyperref[\BackrefFootnoteTag]{\@thefnmark}}}%
13774 \fi
13775 \fi}
13776 \renewcommand{\RTLfootfootmark}{%
13777 \ifdim\footmarkwidth < \z@
13778 \llap{\hb@xt@ -\footmarkwidth{%
13779 \hss\normalfont\RTLfootscript{\hyperref[\BackrefFootnoteTag]{\@thefnmark}}}%
13780 \hspace*{-\footmarkwidth}}}%
13781 \else
13782 \ifdim\footmarkwidth = \z@
13783 {\normalfont\RTLfootscript{\hyperref[\BackrefFootnoteTag]{\@thefnmark}}}%
13784 \else
13785 \hb@xt@\footmarkwidth{\hss\normalfont\RTLfootscript{\hyperref[\BackrefFootnoteTag]{\@thefnmark}}}%
13786 \fi
13787 \fi}
13788 \fi
13789 }

```

## 94 File framed-xetex-bidi.def

```

13790 \ProvidesFile{framed-xetex-bidi.def}[2012/06/05 v0.3 bidi adaptations for framed package for xetex]
13791 \renewcommand\TitleBarFrame[3] [] {\begingroup
13792 \ifx\delimiter#1\delimiter
13793 \let\TF@conlab\@empty
13794 \else
13795 \def\TF@conlab{% continuation label
13796 \nointerlineskip
13797 \smash{\rlap{\kern\wd\@tempboxa\kern\fboxrule\kern\fboxsep #1}}}%
13798 \fi
13799 %\let\TF@savecolor\current@color
13800 \textcolor{TFFrameColor}{%
13801 \CustomFBox
13802 {\TF@Title{#2}}{\TF@conlab}%
13803 \fboxrule\fboxrule\fboxrule\fboxrule
13804 %{\let\current@color\TF@savecolor\set@color #3}%
13805 {\normalcolor #3}%
13806 }\endgroup
13807 }
13808 \renewenvironment{titled-frame}[1]{%
13809 \def\FrameCommand{\fboxsep8pt\fboxrule2pt
13810 \TitleBarFrame{\textbf{#1}}}%
13811 \def\FirstFrameCommand{\fboxsep8pt\fboxrule2pt
13812 \TitleBarFrame[{\if@RTL\blacktriangleleft\else\blacktriangleright\fi}]{\textbf{#1}}}%
13813 \def\MidFrameCommand{\fboxsep8pt\fboxrule2pt

```



```

13814 \TitleBarFrame[ $\if@RTL\blacktriangleleft\else\blacktriangleright\fi$ ]{\textbf{#1} (con
13815 \def\LastFrameCommand{\fbxsep8pt\fbxrule2pt
13816 \TitleBarFrame{\textbf{#1} (cont)}}}%
13817 \MakeFramed{\advance\hsize-20pt \FrameRestore}}%
13818 % note: 8 + 2 + 8 + 2 = 20. Don't use \width because the frame title
13819 % could interfere with the width measurement.
13820 {\endMakeFramed}
13821 \chardef\FrameRestore=\catcode`\| % for debug
13822 \catcode`\|=\catcode`\% % (debug: insert space after backslash)
13823 \def\fb@put@frame#1#2{\relax
13824 \ifdim\pagegoal=\maxdimen \pagegoal\vsizel\fi
13825 | \message{===== Entering putframe =====^~J
13826 | \pagegoal=\the\pagegoal, \pagetotal=\the\pagetotal.}%
13827 \ifinner
13828 \fb@putboxa#1%
13829 \fb@afterframe
13830 \else
13831 \dimen@\pagegoal \advance\dimen@-\pagetotal % natural space left on page
13832 \ifdim\dimen@<2\baselineskip % Too little room on page
13833 | \message{Page has only \the\dimen@space room left; eject.}%
13834 \eject \fb@adjheight \fb@put@frame#1#2%
13835 \else % there's appreciable room left on the page
13836 \fb@sizeofframe#1%
13837 | \message{\string\pagetotal=\the\pagetotal,
13838 | \string\pagegoal=\the\pagegoal,
13839 | \string\pagestretch=\the\pagestretch,
13840 | \string\pageshrink=\the\pageshrink,
13841 | \string\fb@frh=\the\fb@frh. \space}
13842 | \message{^^JBox of size \the\ht@tempboxa\space}%
13843 \begingroup % temporarily set \dimen@ to be...
13844 \advance\dimen@.8\pageshrink % maximum space available on page
13845 \advance\dimen@-\fb@frh\relax % max space available for frame's contents
13846 %%% LOOKS SUBTRACTED AND ADDED, SO DOUBLE ACCOUNTING!
13847 \expandafter\endgroup
13848 % expand \ifdim, then restore \dimen@ to real room left on page
13849 \ifdim\dimen@>\ht@tempboxa % whole box does fit
13850 | \message{fits in \the\dimen@.}%
13851 % ToDo: Change this to use vsplit anyway to capture the marks
13852 % MERGE THIS WITH THE else CLAUSE!!!
13853 \fb@putboxa#1%
13854 \fb@afterframe
13855 \else % box must be split
13856 | \message{must be split to fit in \the\dimen@.}%
13857 % update frame measurement to use \FirstFrameCommand or \MidFrameCommand
13858 \fb@sizeofframe#2%
13859 \setbox\@tempboxa\vbox{% simulate frame and flexibility of the page:
13860 \vskip \fb@frh \@plus\pagestretch \@minus.8\pageshrink
13861 \kern137sp\kern-137sp\penalty-30
13862 \unvbox\@tempboxa}%
13863 \edef\fb@resto@set{\boxmaxdepth\the\boxmaxdepth
13864 \splittopskip\the\splittopskip}%
13865 \boxmaxdepth\z@ \splittopskip\z@
13866 | \message{^^JPadded box of size \the\ht@tempboxa\space split to \the\dimen@}%
13867 % Split box here

```



```

13868 \setbox\tw@\vsplit\@tempboxa to\dimen@
13869 | \toks99\expandafter{\splitfirstmark}%
13870 | \toks98\expandafter{\splitbotmark}%
13871 | \message{Marks are: \the\toks99, \the\toks98. }%
13872 \setbox\tw@\vbox{\unvbox\tw@}% natural-sized
13873 | \message{Natural height of split box is \the\ht\tw@, leaving
13874 | \the\ht\@tempboxa\space remainder. }%
13875 % If the split-to size > (\vsize-\topskip), then set box to full size.
13876 \begingroup
13877 \advance\dimen@\topskip
13878 \expandafter\endgroup
13879 \ifdim\dimen@>\pagegoal
13880 | \message{Frame is big -- Use up the full column. }%
13881 | \dimen@ii\pagegoal
13882 \advance\dimen@ii -\topskip
13883 \advance\dimen@ii \FrameHeightAdjust\relax
13884 \else % suspect this is implemented incorrectly:
13885 % If the split-to size > feasible room_on_page, rebox it smaller.
13886 \advance\dimen@.8\pageshrink
13887 \ifdim\ht\tw@>\dimen@
13888 | \message{Box too tall; rebox it to \the\dimen@. }%
13889 | \dimen@ii\dimen@
13890 \else % use natural size
13891 | \dimen@ii\ht\tw@
13892 \fi
13893 \fi
13894 % Re-box contents to desired size \dimen@ii
13895 \advance\dimen@ii -\fb@frh
13896 \setbox\tw@\vbox to\dimen@ii \bgroup
13897 % remove simulated frame and page flexibility:
13898 \vskip -\fb@frh \@plus-\pagestretch \@minus-.8\pageshrink
13899 \unvbox\tw@ \unpenalty\unpenalty
13900 \ifdim\lastkern=-137sp % whole box went to next page
13901 | \message{box split at beginning! }%
13902 % need work here???
13903 \egroup \fb@resto@set \eject % (\vskip for frame size was discarded)
13904 \fb@adjheight
13905 \fb@put@frame#1#2% INSERTED ???
13906 \else % Got material split off at the head
13907 \egroup \fb@resto@set
13908 \ifvoid\@tempboxa % it all fit after all
13909 | \message{box split at end! }%
13910 \setbox\@tempboxa\box\tw@
13911 \fb@putboxa#1%
13912 \fb@afterframe
13913 \else % it really did split
13914 | \message{box split as expected. Its reboxed height is \the\ht\tw@. }%
13915 | \ifdim\wd\tw@>\z@
13916 | \wd\tw@\wd\@tempboxa
13917 | \centerline{#2{\hboxL{\box\tw@}}}% ??? \centerline bad idea
13918 \else
13919 | \message{Zero width means likely blank. Don't frame it (guess)}%
13920 | \box\tw@
13921 \fi

```



```

13922             \hrule \@height\z@ \@width\hsize
13923             \eject
13924             \fb@adjheight
13925             \fb@put@frame\LastFrameCommand\MidFrameCommand
13926 \fi\fi\fi\fi\fi
13927 }
13928 \def\fb@putboxa#1{%
13929 \ifvoid\@tempboxa
13930   \PackageWarning{framed}{Boxa is void -- discard it. }%
13931 \else
13932 |   \message{Frame and place boxa. }%
13933 |   %{\showoutput\showbox\@tempboxa}%
13934   \centerline{#1{\hboxL{\box\@tempboxa}}}%
13935 \fi
13936 }
13937 \catcode`\|=\FrameRestore
13938 \def\FrameRestore{%
13939   \let\if@nobreak\iffalse
13940   \let\if@noskipsec\iffalse
13941   \let\-\@dischph
13942   \let'\@acci\let'\@accii\let\=\@acciii
13943   % \message{FrameRestore:
13944   %   \@totalleftmargin=\the \@totalleftmargin,
13945   %   \rightmargin=\the\rightmargin,
13946   %   \@listdepth=\the\@listdepth. }%
13947   % Test if we are in a list (or list-like paragraph)
13948   \ifnum \ifdim\@totalleftmargin>\z@ 1\fi
13949       \ifdim\rightmargin>\z@ 1\fi
13950       \ifnum\@listdepth>\z@ 1\fi 0>\z@
13951       % \message{In a list: \linewidth=\the\linewidth, \@totalleftmargin=\the\@totalleftmargin,
13952       %   \parshape=\the\parshape, \columnwidth=\the\columnwidth, \hsize=\the\hsize,
13953       %   \labelwidth=\the\labelwidth. }%
13954       \@setminipage % snug fit around the item
13955       % Now try to propagate changes of width from \hsize to list parameters.
13956       % This is deficient, but a more advanced way to indicate modification to text
13957       % dimensions is not (yet) provided; in particular, no separate left/right
13958       % adjustment.
13959       \advance\linewidth-\columnwidth \advance\linewidth\hsize
13960       \parshape\@ne \@totalleftmargin \linewidth
13961   \else % Not in list
13962     \linewidth=\hsize
13963     %\message{No list, set \string\linewidth=\the\hsize. }%
13964   \fi
13965   \sloppy
13966 }

```

## 95 File ftncright-xetex-bidi.def

```

13967 \ProvidesFile{ftncright-xetex-bidi.def}[2018/09/29 v0.6 bidi adaptations for ftncright package]
13968
13969 \def\prepare@bidi@copyins{%
13970   \global\bidircol@copyinsskip\skip\@bidi@copyins@
13971   \global\skip\@bidi@copyins@\z@
13972   \global\count\@bidi@copyins@\z@

```



```

13973 \global\dimen\@bidi@copyins@\textheight}
13974
13975 \newskip\bidircol@copyinsskip
13976
13977 \def\LTR@outputdblcol{%
13978 \if@firstcolumn
13979 \global\@firstcolumnfalse
13980 \global\setbox\@leftcolumn\copy\@outputbox
13981 \global\count\footins\@m
13982 \global\skip\footins\rcol@footinsskip
13983 \global\count\@bidi@copyins@\@m
13984 \global\skip\@bidi@copyins@\bidircol@copyinsskip
13985 \splitmaxdepth\maxdimen
13986 \vbadness\maxdimen
13987 \setbox\@outputbox\vbox{\unvbox\@outputbox\unskip}%
13988 \setbox\@outputbox\vsplit\@outputbox to\maxdimen
13989 \toks@\expandafter{\topmark}%
13990 \xdef\@firstcoltopmark{\the\toks@}%
13991 \toks@\expandafter{\splitfirstmark}%
13992 \xdef\@firstcolfirstmark{\the\toks@}%
13993 \ifx\@firstcolfirstmark\@empty
13994 \global\let\@setmarks\relax
13995 \else
13996 \gdef\@setmarks{%
13997 \let\firstmark\@firstcolfirstmark
13998 \let\topmark\@firstcoltopmark}%
13999 \fi
14000 \else
14001 \preparefootins
14002 \prepare@bidi@copyins
14003 \global\@firstcolumntrue
14004 \setbox\@outputbox\vbox{%
14005 \hb@xt@\textwidth{%
14006 \hb@xt@\columnwidth{%
14007 \bidi@firstcolumn@status@write%
14008 \box\@leftcolumn \hss}%
14009 \hfil
14010 {\normalcolor\vrule \@width\columnseprule}%
14011 \hfil
14012 \hb@xt@\columnwidth{%
14013 \bidi@lastcolumn@status@write%
14014 \box\@outputbox \hss}}}%
14015 \@combinedblfloats
14016 \@setmarks
14017 \@outputpage
14018 \begingroup
14019 \@dblfloatplacement
14020 \@startdblcolumn
14021 \@whiles\if@colmade \fi{\@outputpage
14022 \@startdblcolumn}%
14023 \endgroup
14024 \fi}%
14025
14026 \def\RTL@outputdblcol{%

```



```

14027 \if@firstcolumn
14028   \global\@firstcolumnfalse
14029   \global\setbox\@leftcolumn\copy\@outputbox
14030   \global\count\footins\@m
14031   \global\skip\footins\rcol@footinsskip
14032   \global\count\@bidi@copyins@\@m
14033   \global\skip\@bidi@copyins@\bidi@rcol@copyinsskip
14034   \splitmaxdepth\maxdimen
14035   \vbadness\maxdimen
14036   \setbox\@outputbox\vbox{\unvbox\@outputbox\unskip}%
14037   \setbox\@outputbox\vsplit\@outputbox to\maxdimen
14038   \toks@\expandafter{\topmark}%
14039   \xdef\@firstcoltopmark{\the\toks@}%
14040   \toks@\expandafter{\splitfirstmark}%
14041   \xdef\@firstcolfirstmark{\the\toks@}%
14042   \ifx\@firstcolfirstmark\@empty
14043     \global\let\@setmarks\relax
14044   \else
14045     \gdef\@setmarks{%
14046       \let\firstmark\@firstcolfirstmark
14047       \let\topmark\@firstcoltopmark}%
14048   \fi
14049 \else
14050   \preparefootins
14051   \prepare@bidi@copyins
14052   \global\@firstcolumntrue
14053   \setbox\@outputbox\vbox{%
14054     \hb@xt@\textwidth{%
14055       \hskip \columnwidth
14056       \hfil
14057       {\normalcolor\vrule \@width\columnseprule}%
14058       \hfil
14059       \hb@xt@\columnwidth{%
14060         \bidi@firstcolumn@status@write%
14061         \box\@leftcolumn \hss}%
14062       \hskip -\textwidth
14063       \hb@xt@\columnwidth{%
14064         \bidi@lastcolumn@status@write%
14065         \box\@outputbox \hss}%
14066       \hskip \columnsep
14067       \hskip \columnwidth }}%
14068   \@combinedblfloats
14069   \@setmarks
14070   \@outputpage
14071   \begingroup
14072     \@dblfloatplacement
14073     \@startdblcolumn
14074     \@whiles\if@fcolmade \fi{\@outputpage
14075       \@startdblcolumn}%
14076   \endgroup
14077 \fi}%
14078
14079 \def\@startcolumn{%
14080 \ifx\@deferlist\@empty

```



```

14081 \global\@fcolmadefalse
14082 \global\@colroom\@colht
14083 \else
14084 \ifvoid\footins\else
14085 \ftn@amount\ht\footins
14086 \advance\ftn@amount\dp\footins
14087 \advance\ftn@amount\skip\footins
14088 \fi
14089 \ifvoid\@bidi@copyins@\else
14090 \bidi@copyins@amount\ht\@bidi@copyins@
14091 \advance\bidi@copyins@amount\dp\@bidi@copyins@
14092 \advance\bidi@copyins@amount\skip\@bidi@copyins@
14093 \fi
14094 \global\advance\@colht-\ftn@amount
14095 \global\advance\@colht-\bidi@copyins@amount
14096 \global\@colroom\@colht
14097 \xstartcol
14098 \global\advance\@colht\ftn@amount
14099 \global\advance\@colroom\ftn@amount
14100 \global\advance\@colht\bidi@copyins@amount
14101 \global\advance\@colroom\bidi@copyins@amount
14102 \fi
14103 \if@fcolmade
14104 \setbox\@cclv\box\@outputbox
14105 \@makecol
14106 \else
14107 \ifvoid\footins\else
14108 \insert\footins{\unvbox\footins}\fi
14109 \ifvoid\@bidi@copyins@\else
14110 \insert\@bidi@copyins@{\unvbox\@bidi@copyins@}\fi
14111 \fi}
14112
14113 \newdimen\bidi@copyins@amount
14114
14115 \def\@makecol{\if@firstcolumn
14116 \setbox\@outputbox\box\@cclv
14117 \if@twocolumn \else
14118 \ifvoid\footins \else
14119 \latexerr{ftnright package
14120 used in one-column mode}%
14121 {The ftnright package was designed to
14122 work with LaTeX's standard^^Jtwocolumn
14123 option. It does *not* work with the
14124 multicol package.^^JSo please specify
14125 `twocolumn' in the
14126 \noexpand\documentclass command.}%
14127 \shipout\box\footins \fi
14128 \ifvoid\@bidi@copyins@ \else
14129 \latexerr{ftnright package
14130 used in one-column mode}%
14131 {The ftnright package was designed to
14132 work with LaTeX's standard^^Jtwocolumn
14133 option. It does *not* work with the
14134 multicol package.^^JSo please specify

```



```

14135     `twocolumn' in the
14136     \noexpand\documentclass command.}%
14137     \shipout\box\@bidi@copyins@ \fi\fi
14138 \ifnum\insertpenalties>\z@
14139     \@latexerr{ftnright package
14140         scrambled footnotes}%
14141     {There is too much footnote material in
14142     the first column and ftnright^^Jis
14143     unable to cope with this.^^JYou need
14144     to reduce the amount to get a properly
14145     formatted page.}%
14146 \fi
14147 \else
14148 \ifvoid\footins
14149     \ifvoid\@bidi@copyins@
14150     \setbox\@outputbox\box\@cclv
14151     \else
14152     \setbox\@outputbox\vbox
14153     {\ifvoid\@cclv \else
14154     \unvbox\@cclv
14155     \vskip \skip\@bidi@copyins@
14156     \fi
14157     \color@begingroup
14158     \normalcolor
14159     \unvbox \@bidi@copyins@
14160     \color@endgroup}%
14161 \fi
14162 \else
14163 \setbox\@outputbox\vbox
14164 {\ifvoid\@cclv \else
14165 \unvbox\@cclv
14166 \vskip\skip\footins\fi
14167 \color@begingroup
14168 \normalcolor
14169 \footnoterule\unvbox\footins
14170 \color@endgroup
14171 \ifvoid\@bidi@copyins@
14172 \else
14173 \vskip \skip\@bidi@copyins@
14174 \color@begingroup
14175 \normalcolor
14176 \unvbox \@bidi@copyins@
14177 \color@endgroup
14178 \fi
14179 }%
14180 \fi
14181 \fi
14182 \xdef\@freelist{\@freelist\@midlist}%
14183 \global \let \@midlist \@empty
14184 \@combinefloats
14185 \ifvbox\@kludgeins
14186 \@makespecialcolbox
14187 \else
14188 \setbox\@outputbox\vbox to\@colht

```



```

14189      {\boxmaxdepth\maxdepth
14190       \@texttop
14191       \@tempdima\dp\@outputbox
14192       \unvbox\@outputbox
14193       \vskip-\@tempdima
14194       \@textbottom}%
14195   \fi
14196   \global\maxdepth\@maxdepth}
14197
14198 \let\leftfootnoterule\@empty
14199 \let\rightfootnoterule\@empty
14200 \let\textwidthfootnoterule\@empty
14201 \let\autofootnoterule\@empty
14202 \let\footnoterule\@empty
14203 \long\def\@makefntext#1{\parindent 1em
14204   \noindent\hbox to 2em{}}%
14205   \llap{\@thefnmark\hbox{.},\,}\,}#1}
14206
14207 \setlength{\skip\@bidi@copyins}{
14208   {10pt plus 5pt minus 3pt}
14209 \AtBeginDocument{\prepare@bidi@copyins}

```

96 File `graphicx-xetex-bidi.def`

```

14210 \ProvidesFile{graphicx-xetex-bidi.def}[2017/06/17 v0.5 bidi adaptations for graphicx package]
14211 \def\Grot@box@std#1#2{\ifmmode\else\if@RTL\beginL\fi\fi%
14212   \Grot@setangle{#1}%
14213   \setbox\z@\hbox{\ifmmode\if@RTL\beginR\fi#2\if@RTL\endR\fi\else\if@RTL\beginR\fi#2\if@RTL\endR\fi}%
14214   \Grot@x\z@
14215   \Grot@y\z@
14216   \Grot@box\ifmmode\else\if@RTL\endL\fi\fi}
14217 \long\def\Grot@box@kv[#1]#2#3{\ifmmode\else\if@RTL\beginL\fi\fi%
14218   \@begin@tempboxa\hbox{\ifmmode\if@RTL\beginR\fi#3\if@RTL\endR\fi\else\if@RTL\beginR\fi#3\if@RTL\endR\fi}%
14219   \Grot@x\width \divide\Grot@x\tw@
14220   \Grot@y\height \advance\Grot@y-\depth \divide\Grot@y\tw@
14221   \setkeys{Grot}{#1}%
14222   \setbox\z@\box\@tempboxa
14223   \Grot@setangle{#2}%
14224   \Grot@box\ifmmode\else\if@RTL\endL\fi\fi
14225   \@end@tempboxa}
14226 \long\def\Gscale@box#1[#2]#3{\ifmmode\else\if@RTL\beginL\fi\fi%
14227   \leavevmode
14228   \def\Gscale@x{#1}\def\Gscale@y{#2}%
14229   \setbox\z@\hbox{{#3}}%
14230   \setbox\tw@\hbox{\Gscale@start\rlap{\copy\z@}\Gscale@end}%
14231   \ifdim#2\p<\z@
14232     \ht\tw@-#2\dp\z@
14233     \dp\tw@-#2\ht\z@
14234   \else
14235     \ht\tw@#2\ht\z@
14236     \dp\tw@#2\dp\z@
14237   \fi
14238   \ifdim#1\p<\z@
14239     \hb@xt@-#1\wd\z@{\kern-#1\wd\z@\box\tw@\hss}%

```



```

14240 \else
14241 \wd\tw@#1\wd\z@
14242 \box\tw@
14243 \fi\ifmmode\else\if@RTL\endL\fi\fi}
14244 \def\Gin@iii[#1,#2][#3,#4]#5{%
14245 \begingroup
14246 \ifmmode\else\if@RTL\beginL\fi\fi
14247 \Gin@bboxtrue
14248 \Gin@defaultbp\Gin@llx{#1}%
14249 \Gin@defaultbp\Gin@lly{#2}%
14250 \Gin@defaultbp\Gin@urx{#3}%
14251 \Gin@defaultbp\Gin@ury{#4}%
14252 \Gin@include@graphics{#5}%
14253 \ifmmode\else\if@RTL\endL\fi\fi
14254 \endgroup}
14255 \def\Gin@ii[#1]#2{%
14256 \def\@tempa{[]}\def\@tempb{#2}%
14257 \ifx\@tempa\@tempb
14258 \def\@tempa{\Gin@iii[#1] []}%
14259 \expandafter\@tempa
14260 \else
14261 \begingroup
14262 \ifmmode\else\if@RTL\beginL\fi\fi
14263 \@tempswafalse
14264 \toks@{\Gin@include@graphics{#2}}%
14265 \setkeys{Gin}{#1}%
14266 \Gin@esetsize
14267 \the\toks@
14268 \ifmmode\else\if@RTL\endL\fi\fi
14269 \endgroup
14270 \fi}
14271 \def\reflectbox{\bidiGscale@box-1[1]}
14272 \long\def\bidiGscale@box#1[#2]#3{\ifmmode\else\if@RTL\beginL\fi\fi%
14273 \leavevmode
14274 \def\Gscale@x{#1}\def\Gscale@y{#2}%
14275 \setbox\z@\hbox{\ifmmode\if@RTL\beginR\fi#3\if@RTL\endR\fi\else\if@RTL\beginR\fi#3\if@RTL\endR\fi}%
14276 \setbox\tw@\hbox{\Gscale@start\rlap{\copy\z@}\Gscale@end}%
14277 \ifdim#2\p<\z@
14278 \ht\tw@-#2\dp\z@
14279 \dp\tw@-#2\ht\z@
14280 \else
14281 \ht\tw@#2\ht\z@
14282 \dp\tw@#2\dp\z@
14283 \fi
14284 \ifdim#1\p<\z@
14285 \hb@xt@-#1\wd\z@{\kern-#1\wd\z@\box\tw@\hss}%
14286 \else
14287 \wd\tw@#1\wd\z@
14288 \box\tw@
14289 \fi\ifmmode\else\if@RTL\endL\fi\fi}
14290 \def\scalebox#1{%
14291 \@ifnextchar[{\bidiGscale@box{#1}}{\bidiGscale@box{#1}[#1]}%
14292 \def\resizebox{%
14293 \leavevmode

```



```

14294 \@ifstar{\bidiGscale@@box\totalheight}{\bidiGscale@@box\height}}
14295 \def\bidiGscale@@box#1#2#3{%
14296 \let\@tempa\Gin@exclamation
14297 \expandafter\def\expandafter\@tempb\expandafter{\string#2}%
14298 \expandafter\def\expandafter\@tempc\expandafter{\string#3}%
14299 \ifx\@tempb\@tempa
14300 \ifx\@tempc\@tempa
14301 \toks@{\mbox}%
14302 \else
14303 \toks@{\bidiGscale@box@dd{#3}#1}%
14304 \fi
14305 \else
14306 \ifx\@tempc\@tempa
14307 \toks@{\bidiGscale@box@dd{#2}\width}%
14308 \else
14309 \toks@{\bidiGscale@box@dddd{#2}\width{#3}#1}%
14310 \fi
14311 \fi
14312 \the\toks@}
14313 \long\def\bidiGscale@box@dd#1#2#3{%
14314 \@begin@tempboxa\hbox{\ifmmode\if@RTL\beginR\fi#3\if@RTL\endR\fi\else\if@RTL\beginR\fi#3\if@RTL\endR\fi}%
14315 \setlength\@tempdima{#1}%
14316 \setlength\@tempdimb{#2}%
14317 \Gscale@div\@tempa\@tempdima\@tempdimb
14318 \Gscale@box\@tempa[\@tempa]{\box\@tempboxa}%
14319 \@end@tempboxa}
14320 \long\def\bidiGscale@box@dddd#1#2#3#4#5{%
14321 \@begin@tempboxa\hbox{\ifmmode\if@RTL\beginR\fi#5\if@RTL\endR\fi\else\if@RTL\beginR\fi#5\if@RTL\endR\fi}%
14322 \setlength\@tempdima{#1}%
14323 \setlength\@tempdimb{#2}%
14324 \Gscale@div\@tempa\@tempdima\@tempdimb
14325 \setlength\@tempdima{#3}%
14326 \setlength\@tempdimb{#4}%
14327 \Gscale@div\@tempb\@tempdima\@tempdimb
14328 \ifGin@iso
14329 \ifdim\@tempa\p>\@tempb\p@
14330 \let\@tempa\@tempb
14331 \else
14332 \let\@tempb\@tempa
14333 \fi
14334 \fi
14335 \Gscale@box\@tempa[\@tempb]{\box\@tempboxa}%
14336 \@end@tempboxa}

```

## 97 File geometry-xetex-bidi.def

```

14337 \ProvidesFile{geometry-xetex-bidi.def}[2017/01/14 v0.2 bidi adaptations for geometry package]
14338 \renewcommand*{\Gm@vrules@mpi}{%
14339 \if@RTLmain%
14340 \hb@xt@\@tempdima{\hskip-\marginparwidth\hskip-\marginparsep
14341 \llap{\Gm@vrule}\ignorespaces
14342 \hskip \marginparwidth\rlap{\Gm@vrule}\hskip \marginparsep
14343 \llap{\Gm@vrule}\hskip\textwidth\rlap{\Gm@vrule}\hss}%
14344 \else%

```



```

14345 \hb@xt@{\tempdima{\llap{\Gm@vrule}\ignorespaces
14346 \hskip \textwidth\Gm@vrule\hskip \marginparsep
14347 \llap{\Gm@vrule}\hfil\Gm@vrule}\fi}%
14348 \renewcommand*{\Gm@vrules@mpii}{%
14349 \if@RTLmain%
14350 \hb@xt@{\tempdima{\llap{\Gm@vrule}\ignorespaces
14351 \hskip \textwidth\Gm@vrule\hskip \marginparsep
14352 \llap{\Gm@vrule}\hfil\Gm@vrule}%
14353 \else%
14354 \hb@xt@{\tempdima{\hskip-\marginparwidth\hskip-\marginparsep
14355 \llap{\Gm@vrule}\ignorespaces
14356 \hskip \marginparwidth\rlap{\Gm@vrule}\hskip \marginparsep
14357 \llap{\Gm@vrule}\hskip\textwidth\rlap{\Gm@vrule}\hss}\fi}%
14358 \bidi@patchcmd{\Gm@pageframes}{%
14359 \ifodd\count\z@
14360 \let\@themargin\oddsidemargin
14361 \else
14362 \let\@themargin\evensidemargin
14363 \fi
14364 }{%
14365 \ifodd\count\z@
14366 \if@RTLmain
14367 \let\@themargin\evensidemargin
14368 \else
14369 \let\@themargin\oddsidemargin
14370 \fi
14371 \else
14372 \if@RTLmain
14373 \let\@themargin\oddsidemargin
14374 \else
14375 \let\@themargin\evensidemargin
14376 \fi
14377 \fi
14378 }{}{}

```

## 98 File hvfloat-xetex-bidi.def

```

14379 \ProvidesFile{hvfloat-xetex-bidi.def}[2012/04/18 v0.2 bidi adaptations for hvfloat package f
14380 \def\do@hvFloat[#1]#2#3{%
14381 \def\hv@shortCap{#1}
14382 \def\hv@longCap{#2}
14383 \def\hv@label{#3}
14384 %\newcommand*{\hvFloat}[5][{}]{%
14385 % [#1]: keyvalues
14386 % #2: type figure | table | ...
14387 % #3: float contents
14388 % [#4]: short caption
14389 % #5: caption
14390 % #6: label
14391 % \setDefaults%
14392 % \def\@tempa{#1}%
14393 % \ifx\@tempa\empty\else\setkeys{hvSet}{#1}\fi% set options, only when not empty
14394 \def\@tempa{90}%
14395 \ifx\hvSet@rotAngle\@tempa \setlength{\hvMaxCapWidth}{\textheight}

```



```

14396 \else \setlength{\hvMaxCapWidth}{\linewidth}
14397 \fi
14398 %
14399 % First we save the object in \hvObjectBox
14400 %
14401 \ifx\hvSet@objectAngle\hv@Zero % rotate the object?
14402 \savebox{\hvObjectBox}{\ifhv@useOBox\usebox{\hvOBox}\else\hv@floatObject\fi}
14403 \else
14404 \savebox{\hvObjectBox}{%
14405 \rotatebox{\hvSet@objectAngle}{%
14406 \ifhv@useOBox\usebox{\hvOBox}\else\hv@floatObject\fi}}
14407 \fi
14408 \setlength{\hvObjectWidth}{\wd\hvObjectBox}
14409 %
14410 % Now we save the caption with its defined \hvCapWidth
14411 %
14412 \ifx\hvSet@capWidth\hv@Width\setlength{\hvCapWidth}{\hvObjectWidth}
14413 \else
14414 \ifx\hvSet@capWidth\hv@Height\setlength{\hvCapWidth}{\ht\hvObjectBox}
14415 \else
14416 \setlength{\hvCapWidth}{\hvObjectWidth}
14417 \ifx\hvSet@capPos\hv@Left\addtolength{\hvMaxCapWidth}{-\hvObjectWidth}\fi
14418 \ifx\hvSet@capPos\hv@Right\addtolength{\hvMaxCapWidth}{-\hvObjectWidth}\fi
14419 \ifdim\hvSet@capWidth\columnwidth<\hvMaxCapWidth
14420 \setlength{\hvCapWidth}{\hvSet@capWidth\columnwidth}
14421 \else
14422 \setlength{\hvCapWidth}{\hvMaxCapWidth}
14423 \fi
14424 \fi
14425 \fi
14426 %
14427 % now we have the object and the caption with the right
14428 % rotated angles saved in boxes
14429 %
14430 \def\fps@figure{\hvSet@floatPos}
14431 \ifhv@nonFloat\begin{group}% Start the nonfloat part
14432 \else \begin{\hv@floatType}% Start the floating environment
14433 \fi%
14434 \saveCaptionSkip% we put this space ourselves
14435 \ifx\hvSet@capAngle\hv@Width % need rotation?
14436 \sbox{\hvCaptionBox}{%
14437 \begin{minipage}[b]{\hvCapWidth}% minipage, to get hyphenation
14438 \ifhv@nonFloat%
14439 \ifhv@onlyText#2%
14440 \else%
14441 \ifx\hv@floatType\hv@figure
14442 \ifx\relax#1\relax \figcaption{#2}\else\figcaption{#1}{#2}\fi
14443 \else
14444 \ifx\relax#1\relax \tabcaption{#2}\else\tabcaption{#1}{#2}\fi%
14445 \fi
14446 \fi
14447 \else\ifx\relax\hv@shortCap\relax\caption{#2}\else\caption{#1}{#2}\fi%
14448 \fi%
14449 \label{#3}%

```



```

14450     \end{minipage}%
14451   }%
14452   \else%
14453     \sbox{\hvCaptionBox}{%
14454       \rotatebox{\hvSet@capAngle}{%
14455         \begin{minipage}[b]{\hvCapWidth}% minipage, to get hyphenation
14456 \ifhv@nonFloat%
14457   \ifhv@onlyText#2%
14458   \else%
14459     \ifx\hv@floatType\hv@figure
14460       \ifx\relax#1\relax \figcaption{#2}\else\figcaption[#1]{#2}\fi
14461     \else
14462       \ifx\relax#1\relax \tabcaption{#2}\else\tabcaption[#1]{#2}\fi%
14463     \fi
14464   \fi
14465 \else\ifx\relax\hv@shortCap\relax\caption{#2}\else\caption[#1]{#2}\fi%
14466   \fi%
14467   \label{#3}%
14468   \end{minipage}%
14469   }%
14470 }%
14471 \fi%
14472 %%
14473 \restoreCaptionSkip% save old values
14474 \ifx\hvSet@objectPos\hv@Right\@bidi@raggedleft%
14475   \else%
14476     \ifx\hvSet@objectPos\hv@Center
14477       \ifhv@nonFloat\hspace*{\fill}\else\centering\fi%
14478     \fi%
14479   \fi%
14480 %
14481 % to rotate object and caption together, we save all in another box
14482 % the caption comes first, if its on the left or the top
14483 %
14484 \savebox{\@tempboxa}{%
14485   \ifx\hvSet@capPos\hv@Left % caption on left side
14486 \if@RTL%
14487 \ifx\hvSet@capVPos\hv@Center%
14488 \ifhv@fbox
14489 \fbox{\parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}}
14490 \else
14491 \parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}
14492 \fi%
14493 \hspace{\hvSet@floatCapSep pt}%
14494 \ifhv@fbox
14495 \fbox{\parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}}%
14496 \else
14497 \parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}
14498 \fi%
14499 \else%
14500 \ifx\hvSet@capVPos\hv@Top
14501 \ifhv@fbox
14502 \fbox{\raisebox{-\height}{\usebox{\hvObjectBox}}}%
14503 \else

```



```

14504 \raisebox{-\height}{\usebox{\hvObjectBox}}%
14505 \fi%
14506 \hspace{\hvSet@floatCapSep pt}%
14507 \ifhv@fbox
14508 \fbox{\raisebox{-\height}{\usebox{\hvCaptionBox}}}%
14509 \else
14510 \raisebox{-\height}{\usebox{\hvCaptionBox}}%
14511 \fi
14512 \else
14513 \ifhv@fbox
14514 \fbox{\usebox{\hvObjectBox}}%
14515 \else
14516 \usebox{\hvObjectBox}%
14517 \fi
14518 \hspace{\hvSet@floatCapSep pt}%
14519 \ifhv@fbox
14520 \fbox{\usebox{\hvCaptionBox}}%
14521 \else
14522 \usebox{\hvCaptionBox}%
14523 \fi%
14524 \fi%
14525 \fi%
14526 \else% not RTL
14527 \ifx\hvSet@capVPos\hv@Center%
14528 \ifhv@fbox\fbox{\parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}}%
14529 \else \parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}%
14530 \fi%
14531 \hspace{\hvSet@floatCapSep pt}% capfloatsep
14532 \ifhv@fbox\fbox{\parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}}%
14533 \else \parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}
14534 \fi%
14535 \else%
14536 \ifx\hvSet@capVPos\hv@Top % caption at top
14537 \ifhv@fbox\fbox{\raisebox{-\height}{\usebox{\hvCaptionBox}}}%
14538 \else \raisebox{-\height}{\usebox{\hvCaptionBox}}%
14539 \fi
14540 \hspace{\hvSet@floatCapSep pt}% capfloatsep
14541 \ifhv@fbox\fbox{\raisebox{-\height}{\usebox{\hvObjectBox}}}%
14542 \else \raisebox{-\height}{\usebox{\hvObjectBox}}%
14543 \fi%
14544 \else% caption on bottom
14545 \ifhv@fbox\fbox{\usebox{\hvCaptionBox}}
14546 \else\usebox{\hvCaptionBox}
14547 \fi%
14548 \hspace{\hvSet@floatCapSep pt}%
14549 \ifhv@fbox\fbox{\usebox{\hvObjectBox}}
14550 \else \usebox{\hvObjectBox}
14551 \fi%
14552 \fi%
14553 \fi% end of RTL
14554 \fi%
14555 \else
14556 \ifx\hvSet@capPos\hv@Top
14557 \ifdim\wd\hvCaptionBox>\wd\hvObjectBox

```



```

14558 \begin{minipage}{\wd\hvCaptionBox}
14559 \else
14560 \begin{minipage}{\wd\hvObjectBox}
14561 \fi
14562 \centering
14563 \ifhv@fbox
14564 \fbox{\usebox{\hvCaptionBox}}\[\hvBelowCaptionSkip]
14565 \fbox{\usebox{\hvObjectBox}}
14566 \else
14567 \usebox{\hvCaptionBox}\[\hvBelowCaptionSkip]
14568 \usebox{\hvObjectBox}
14569 \fi%
14570 \end{minipage}
14571 \else
14572 \ifx\hvSet@capPos\hv@Bottom
14573 \ifdim\wd\hvCaptionBox>\wd\hvObjectBox
14574 \begin{minipage}{\wd\hvCaptionBox}
14575 \else
14576 \begin{minipage}{\wd\hvObjectBox}
14577 \fi
14578 \centering
14579 \ifhv@fbox
14580 \fbox{\usebox{\hvObjectBox}}\[\hvAboveCaptionSkip]
14581 \fbox{\usebox{\hvCaptionBox}}
14582 \else
14583 \usebox{\hvObjectBox}\[\hvAboveCaptionSkip]
14584 \usebox{\hvCaptionBox}
14585 \fi%
14586 \end{minipage}
14587 \else% the last option: put the caption on the right
14588 \if@RTL%
14589 \ifx\hvSet@capVPos\hv@Center%
14590 \ifhv@fbox\fbox{\parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}}%
14591 \else \parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}%
14592 \fi%
14593 \hspace{\hvSet@floatCapSep pt}% capfloatsep
14594 \ifhv@fbox\fbox{\parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}}%
14595 \else \parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}
14596 \fi%
14597 \else%
14598 \ifx\hvSet@capVPos\hv@Top % caption at top
14599 \ifhv@fbox\fbox{\raisebox{-\height}{\usebox{\hvCaptionBox}}}%
14600 \else \raisebox{-\height}{\usebox{\hvCaptionBox}}%
14601 \fi
14602 \hspace{\hvSet@floatCapSep pt}% capfloatsep
14603 \ifhv@fbox\fbox{\raisebox{-\height}{\usebox{\hvObjectBox}}}%
14604 \else \raisebox{-\height}{\usebox{\hvObjectBox}}%
14605 \fi%
14606 \else% caption on bottom
14607 \ifhv@fbox\fbox{\usebox{\hvCaptionBox}}
14608 \else\usebox{\hvCaptionBox}
14609 \fi%
14610 \hspace{\hvSet@floatCapSep pt}%
14611 \ifhv@fbox\fbox{\usebox{\hvObjectBox}}

```



```

14612         \else         \usebox{\hvObjectBox}
14613         \fi%
14614     \fi%
14615 \fi%
14616 \else% not RTL
14617 \ifx\hvSet@capVPos\hv@Center%
14618 \ifhv@fbox
14619 \fbox{\parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}}
14620 \else
14621 \parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}
14622 \fi%
14623 \hspace{\hvSet@floatCapSep pt}%
14624 \ifhv@fbox
14625 \fbox{\parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}}%
14626 \else
14627 \parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}
14628 \fi%
14629 \else%
14630 \ifx\hvSet@capVPos\hv@Top
14631 \ifhv@fbox
14632 \fbox{\raisebox{-\height}{\usebox{\hvObjectBox}}}%
14633 \else
14634 \raisebox{-\height}{\usebox{\hvObjectBox}}%
14635 \fi%
14636 \hspace{\hvSet@floatCapSep pt}%
14637 \ifhv@fbox
14638 \fbox{\raisebox{-\height}{\usebox{\hvCaptionBox}}}%
14639 \else
14640 \raisebox{-\height}{\usebox{\hvCaptionBox}}%
14641 \fi
14642 \else
14643 \ifhv@fbox
14644 \fbox{\usebox{\hvObjectBox}}%
14645 \else
14646 \usebox{\hvObjectBox}%
14647 \fi
14648 \hspace{\hvSet@floatCapSep pt}%
14649 \ifhv@fbox
14650 \fbox{\usebox{\hvCaptionBox}}%
14651 \else
14652 \usebox{\hvCaptionBox}%
14653 \fi%
14654 \fi%
14655 \fi
14656 \fi% end of RTL
14657 \fi
14658 \fi
14659 \fi
14660 }% End savebox Object and caption
14661 %
14662 % now we rotate the object and caption, if needed
14663 %
14664 \ifx\hvSet@rotAngle\hv@Zero
14665 \usebox{\@tempboxa}

```



```

14666 \else
14667 \rotatebox{\hvSet@rotAngle}{\usebox{\@tempboxa}}
14668 \fi
14669 \ifhv@nonFloat
14670 \ifx\hvSet@objectPos\hv@Center
14671 \ifhv@nonFloat
14672 \hspace{\fill}
14673 \fi
14674 \fi
14675 \endgroup% End the nonfloat part
14676 \else
14677 \end{\hv@floatType}% End the floating environment
14678 \fi
14679 }

```

## 99 File hyperref-xetex-bidi.def

```

14680 \ProvidesFile{hyperref-xetex-bidi.def}[2018/11/11 v1.1 bidi adaptations for hyperref package]
14681 \AtBeginDocument{%
14682 \def\contentsline#1#2#3#4{%
14683   \ifx\#4\%
14684     \csname l@#1\endcsname{#2}{#3}%
14685   \else
14686     \ifcase\Hy@linktoc % none
14687       \csname l@#1\endcsname{#2}{#3}%
14688     \or % section
14689       \csname l@#1\endcsname{%
14690         \hyper@linkstart{link}{#4}{\if@RTL\beginR\fi#2\if@RTL\endR\fi}\hyper@linkend
14691       }{#3}%
14692     \or % page
14693       \csname l@#1\endcsname{#2}{#3}%
14694       \hyper@linkstart{link}{#4}{#3}\hyper@linkend
14695     }%
14696   \else % all
14697     \csname l@#1\endcsname{%
14698       \hyper@linkstart{link}{#4}{\if@RTL\beginR\fi#2\if@RTL\endR\fi}\hyper@linkend
14699     }{#3}%
14700     \hyper@linkstart{link}{#4}{#3}\hyper@linkend
14701   }%
14702   \fi
14703 \fi
14704 }
14705 \ifHy@hyperfootnotes
14706   \let\H@footnotetext\@footnotetext
14707   \let\HRTL@RTLfootnotetext\@RTLfootnotetext
14708   \let\HLTR@LTRfootnotetext\@LTRfootnotetext
14709   \def\@xfootnotenext[#1]{%
14710     \begingroup
14711       \csname c@#1\endcsname #1\relax
14712       \unrestored@protected@xdef\@thefnmark{\thempfn}%
14713     \endgroup
14714     \ifx\@footnotetext\@mpfootnotetext
14715       \expandafter\H@mpfootnotetext
14716     \else

```



```

14717     \expandafter\H@@footnotetext
14718     \fi
14719 }%
14720 \def\xRTLfootnotenext[#1]{%
14721 \begingroup
14722   \csname c@\mpfn\endcsname #1\relax
14723   \unrestored@protected\xdef\thefnmark{\thempfn}%
14724 \endgroup
14725 \ifx\@RTLfootnotetext\@mpRTLfootnotetext
14726   \expandafter\HRTL@\mpRTLfootnotetext
14727 \else
14728   \expandafter\HRTL@\RTLfootnotetext
14729 \fi
14730 }%
14731 \def\xLTRfootnotenext[#1]{%
14732 \begingroup
14733   \csname c@\mpfn\endcsname #1\relax
14734   \unrestored@protected\xdef\thefnmark{\thempfn}%
14735 \endgroup
14736 \ifx\@LTRfootnotetext\@mpLTRfootnotetext
14737   \expandafter\HLTR@\mpLTRfootnotetext
14738 \else
14739   \expandafter\HLTR@\LTRfootnotetext
14740 \fi
14741 }%
14742 \def\xfootnotemark[#1]{%
14743 \begingroup
14744   \c@footnote #1\relax
14745   \unrestored@protected\xdef\thefnmark{\thefootnote}%
14746 \endgroup
14747 \H@@footnotemark
14748 }%
14749 \let\H@@mpfootnotetext\@mpfootnotetext
14750 \let\HRTL@\mpRTLfootnotetext\@mpRTLfootnotetext
14751 \let\HLTR@\mpLTRfootnotetext\@mpLTRfootnotetext
14752 \long\def\@mpfootnotetext#1{%
14753   \H@@mpfootnotetext{%
14754     \ifHy@nesting
14755       \hyper@@anchor{\Hy@footnote@currentHref}{#1}%
14756     \else
14757       \Hy@raisedlink{%
14758         \hyper@@anchor{\Hy@footnote@currentHref}{\relax}%
14759       }#1%
14760     \fi
14761   }%
14762 }%
14763 \long\def\@mpRTLfootnotetext#1{%
14764   \HRTL@\mpRTLfootnotetext{%
14765     \ifHy@nesting
14766       \hyper@@anchor{\Hy@footnote@currentHref}{#1}%
14767     \else
14768       \Hy@raisedlink{%
14769         \hyper@@anchor{\Hy@footnote@currentHref}{\relax}%
14770       }#1%

```



```

14771     \fi
14772   }%
14773 }%
14774 \long\def\@mplTRfootnotetext#1{%
14775 \HLTR@@mplTRfootnotetext{%
14776   \ifHy@nesting
14777     \hyper@@anchor{\Hy@footnote@currentHref}{#1}%
14778   \else
14779     \Hy@raisedlink{%
14780       \hyper@@anchor{\Hy@footnote@currentHref}{\relax}%
14781     }#1%
14782   \fi
14783 }%
14784 }%
14785 \long\def\@footnotetext#1{%
14786 \H@@footnotetext{%
14787   \ifHy@nesting
14788     \hyper@@anchor{\Hy@footnote@currentHref}{#1}%
14789   \else
14790     \Hy@raisedlink{%
14791       \hyper@@anchor{\Hy@footnote@currentHref}{\relax}%
14792     }%
14793     \let\@currentHlabel\Hy@footnote@currentHlabel
14794     \let\@currentHref\Hy@footnote@currentHref
14795     \let\@currentlabelname\@empty
14796     #1%
14797   \fi
14798 }%
14799 }%
14800 \long\def\@RTLfootnotetext#1{%
14801 \HRTL@@RTLfootnotetext{%
14802   \ifHy@nesting
14803     \hyper@@anchor{\Hy@footnote@currentHref}{#1}%
14804   \else
14805     \Hy@raisedlink{%
14806       \hyper@@anchor{\Hy@footnote@currentHref}{\relax}%
14807     }%
14808     \let\@currentHlabel\Hy@footnote@currentHlabel
14809     \let\@currentHref\Hy@footnote@currentHref
14810     \let\@currentlabelname\@empty
14811     #1%
14812   \fi
14813 }%
14814 }%
14815 \long\def\@LTRfootnotetext#1{%
14816 \HLTR@@LTRfootnotetext{%
14817   \ifHy@nesting
14818     \hyper@@anchor{\Hy@footnote@currentHref}{#1}%
14819   \else
14820     \Hy@raisedlink{%
14821       \hyper@@anchor{\Hy@footnote@currentHref}{\relax}%
14822     }%
14823     \let\@currentHlabel\Hy@footnote@currentHlabel
14824     \let\@currentHref\Hy@footnote@currentHref

```



```

14825         \let\@currentlabelname\@empty
14826         #1%
14827     \fi
14828 }%
14829 }%
14830 \ifpackageloaded{tabularx}{%
14831 \let\HyOrg@TX@endtabularx\TX@endtabularx
14832 \def\Hy@tabularx@hook{%
14833     \let\@footnotetext\H@@footnotetext
14834     \let\@LTRfootnotetext\HLTR@@LTRfootnotetext
14835     \let\@RTLfootnotetext\HRTL@@RTLfootnotetext
14836     \let\@footnotemark\H@@footnotemark
14837     \let\@mpfootnotetext\H@@mpfootnotetext
14838     \let\@mpLTRfootnotetext\HLTR@@mpLTRfootnotetext
14839     \let\@mpRTLfootnotetext\HRTL@@mpRTLfootnotetext
14840 }%
14841 \begingroup
14842     \toks@\expandafter{\TX@endtabularx}%
14843     \xdef\Hy@gtemp{%
14844         \noexpand\Hy@tabularx@hook
14845         \the\toks@
14846     }%
14847 \endgroup
14848 \let\TX@endtabularx\Hy@gtemp
14849 }{}%
14850 \ifpackageloaded{longtable}{%
14851 \CheckCommand*{\LT@p@LTRfnttext}[1]{%
14852     \edef\@tempa{%
14853         \the\LT@p@ftn
14854         \noexpand\LTRfootnotetext[\the\c@footnote]%
14855     }%
14856     \global\LT@p@ftn\expandafter{\@tempa{#1}}%
14857 }%
14858 \long\def\LT@p@LTRfnttext#1{%
14859     \edef\@tempa{%
14860         \the\LT@p@ftn
14861         \begingroup
14862             \noexpand\c@footnote=\the\c@footnote\relax
14863             \noexpand\protected\xdef\noexpand\@thefnmark{%
14864                 \noexpand\thempfn
14865             }%
14866             \noexpand\Hy@LT@LTRfootnotetext{%
14867                 \Hy@footnote@currentHref
14868             }%
14869         }%
14870     \global\LT@p@ftn\expandafter{%
14871         \@tempa{#1}%
14872     }%
14873 }%
14874 }%
14875 \long\def\Hy@LT@LTRfootnotetext#1#2{%
14876     \HLTR@@LTRfootnotetext{%
14877         \ifHy@nesting
14878             \hyper@@anchor{#1}{#2}%

```



```

14879         \else
14880             \Hy@raisedlink{%
14881                 \hyper@@anchor{#1}{\relax}%
14882             }%
14883             \def\@currentHref{#1}%
14884             \let\@currentlabelname\@empty
14885             #2%
14886         \fi
14887     }%
14888 }%
14889 \CheckCommand*{\LT@p@RTLftntext}[1]{%
14890     \edef\@tempa{%
14891         \the\LT@p@ftn
14892         \noexpand\RTLfootnotetext[\the\c@footnote]%
14893     }%
14894     \global\LT@p@ftn\expandafter{\@tempa{#1}}%
14895 }%
14896 \long\def\LT@p@RTLftntext#1{%
14897     \edef\@tempa{%
14898         \the\LT@p@ftn
14899         \begingroup
14900             \noexpand\c@footnote=\the\c@footnote\relax
14901             \noexpand\protected@xdef\noexpand\@thefnmark{%
14902                 \noexpand\thempfn
14903             }%
14904             \noexpand\Hy@LT@RTLfootnotetext{%
14905                 \Hy@footnote@currentHref
14906             }%
14907         }%
14908         \global\LT@p@ftn\expandafter{%
14909             \@tempa{#1}%
14910         \endgroup
14911     }%
14912 }%
14913 \long\def\Hy@LT@RTLfootnotetext#1#2{%
14914     \HRTL@RTLfootnotetext{%
14915         \ifHy@nesting
14916             \hyper@@anchor{#1}{#2}%
14917         \else
14918             \Hy@raisedlink{%
14919                 \hyper@@anchor{#1}{\relax}%
14920             }%
14921             \def\@currentHref{#1}%
14922             \let\@currentlabelname\@empty
14923             #2%
14924         \fi
14925     }%
14926 }%
14927 }-{}%
14928 \@ifpackageloaded{bidipoem}{%
14929     \long\def\bidipoem@p@ftntext#1{%
14930         \edef\@tempx{%
14931             \the\bidipoem@p@ftn
14932         \begingroup

```



```

14933         \noexpand\csname c@\@mpfn\endcsname=\the\csname c@\@mpfn\endcsname\relax
14934         \noexpand\protected\xdef\noexpand\@thefnmark{%
14935             \noexpand\thempfn
14936         }%
14937         \noexpand\Hy@bidipoem@footnotetext{%
14938             \Hy@footnote@currentHref
14939         }%
14940     }%
14941     \global\bidipoem@p@ftn\expandafter{%
14942         \@tempxi{#1}%
14943     \endgroup
14944 }%
14945 }%
14946 \long\def\Hy@bidipoem@footnotetext#1#2{%
14947     \H@@@footnotetext{%
14948         \ifHy@nesting
14949             \hyper@@anchor{#1}{#2}%
14950         \else
14951             \Hy@raisedlink{%
14952                 \hyper@@anchor{#1}{\relax}%
14953             }%
14954             \def\@currentHref{#1}%
14955             \let\@currentlabelname\@empty
14956             #2%
14957         \fi
14958     }%
14959 }%
14960 \long\def\bidipoem@p@LTRftntext#1{%
14961 \edef\@tempxi{%
14962     \the\bidipoem@p@ftn
14963 \begingroup
14964     \noexpand\csname c@\@mpfn\endcsname=\the\csname c@\@mpfn\endcsname\relax
14965     \noexpand\protected\xdef\noexpand\@thefnmark{%
14966         \noexpand\thempfn
14967     }%
14968     \noexpand\Hy@bidipoem@LTRfootnotetext{%
14969         \Hy@footnote@currentHref
14970     }%
14971 }%
14972 \global\bidipoem@p@ftn\expandafter{%
14973     \@tempxi{#1}%
14974 \endgroup
14975 }%
14976 }%
14977 \long\def\Hy@bidipoem@LTRfootnotetext#1#2{%
14978     \HLTR@@LTRfootnotetext{%
14979         \ifHy@nesting
14980             \hyper@@anchor{#1}{#2}%
14981         \else
14982             \Hy@raisedlink{%
14983                 \hyper@@anchor{#1}{\relax}%
14984             }%
14985             \def\@currentHref{#1}%
14986             \let\@currentlabelname\@empty

```



```

14987         #2%
14988         \fi
14989     }%
14990 }%
14991     \long\def\bidipoem@p@RTLftntext#1{%
14992     \edef\@tempxi{%
14993     \the\bidipoem@p@ftn
14994     \begingroup
14995     \noexpand\csname c@\@mpfn\endcsname=\the\csname c@\@mpfn\endcsname\relax
14996     \noexpand\protected@xdef\noexpand\@thefnmark{%
14997     \noexpand\thempfn
14998     }%
14999     \noexpand\Hy@bidipoem@RTLfootnotetext{%
15000     \Hy@footnote@currentHref
15001     }%
15002 }%
15003 \global\bidipoem@p@ftn\expandafter{%
15004     \@tempxi{#1}%
15005     \endgroup
15006 }%
15007 }%
15008 \long\def\Hy@bidipoem@RTLfootnotetext#1#2{%
15009     \HRTL@RTLfootnotetext{%
15010     \ifHy@nesting
15011     \hyper@@anchor{#1}{#2}%
15012     \else
15013     \Hy@raisedlink{%
15014     \hyper@@anchor{#1}{\relax}%
15015     }%
15016     \def\@currentHref{#1}%
15017     \let\@currentlabelname\@empty
15018     #2%
15019     \fi
15020     }%
15021 }%
15022 }-}%
15023 \let\HyOrg@maketitle\maketitle
15024 \def\maketitle{%
15025     \let\Hy@saved@footnotemark\@footnotemark
15026     \let\Hy@saved@footnotetext\@footnotetext
15027     \let\HyRTL@saved@RTLfootnotetext\@RTLfootnotetext
15028     \let\HyLTR@saved@LTRfootnotetext\@LTRfootnotetext
15029     \let\@footnotemark\H@@footnotemark
15030     \let\@footnotetext\H@@footnotetext
15031     \let\@RTLfootnotetext\HRTL@RTLfootnotetext
15032     \let\@LTRfootnotetext\HLTR@LTRfootnotetext
15033     \@ifnextchar[\Hy@maketitle@optarg{% ]
15034     \HyOrg@maketitle
15035     \Hy@maketitle@end
15036 }%
15037 }%
15038 \def\Hy@maketitle@optarg[#1]{%
15039     \HyOrg@maketitle[-#1]%
15040     \Hy@maketitle@end

```



```

15041 }%
15042 \def\Hy@maketitle@end{%
15043   \ifx\@footnotemark\H@@footnotemark
15044     \let\@footnotemark\Hy@saved@footnotemark
15045   \fi
15046   \ifx\@footnotetext\H@@footnotetext
15047     \let\@footnotetext\Hy@saved@footnotetext
15048   \fi
15049   \ifx\@RTLfootnotetext\HRTL@@RTLfootnotetext
15050     \let\@RTLfootnotetext\HyRTL@saved@RTLfootnotetext
15051   \fi
15052   \ifx\@LTRfootnotetext\HLTR@@LTRfootnotetext
15053     \let\@LTRfootnotetext\HyLTR@saved@LTRfootnotetext
15054   \fi
15055 }%
15056 \def\realfootnote{%
15057   \@ifnextchar[\@xfootnote{%
15058     \stepcounter{\@mpfn}%
15059     \protected@xdef\@thefnmark{\thempfn}%
15060     \H@@footnotemark\H@@footnotetext
15061   }%
15062 }%
15063 \fi
15064 \def\Hy@BeginAnnot#1{%
15065   \ifmmode\else\beginL\fi%
15066   \global\advance\c@Hy@AnnotLevel\@ne
15067   \ifnum\c@Hy@AnnotLevel=\@ne
15068     #1%
15069   \fi
15070 }
15071 \def\Hy@endAnnot{%
15072   \ifnum\c@Hy@AnnotLevel=\@ne
15073     \Hy@endcolorlink
15074     \@pdfm@mark{eann}%
15075   \fi
15076   \global\advance\c@Hy@AnnotLevel\m@ne
15077   \ifmmode\else\endL\fi%
15078 }
15079 \def\hyper@link#1#2#3{%
15080   \hyper@linkstart{#1}{#2}\ifmmode\else\if@RTL\beginR\fi\fi#3\ifmmode\else\if@RTL\endR\fi\fi
15081 }
15082 \def\hyper@linkfile#1#2#3{%
15083   \leavevmode
15084   \Hy@BeginAnnot{%
15085     \def\Hy@pstringF{#2}%
15086     \Hy@CleanupFile\Hy@pstringF
15087     \Hy@pstringdef\Hy@pstringF\Hy@pstringF
15088     \Hy@pstringdef\Hy@pstringD{#3}%
15089     \Hy@MakeRemoteAction
15090     \@pdfm@mark{%
15091       bann<<%
15092       /Type/Annot%
15093       /Subtype/Link%
15094       \ifHy@pdfa /F 4\fi

```



```

15095      \Hy@setpdfborder
15096      \ifx\@filebordercolor\relax
15097      \else
15098        /C[\@filebordercolor]%
15099      \fi
15100      /A<<%
15101      /S/GoToR%
15102      /F(\Hy@pstringF)%
15103      /D%
15104      \ifx\#3\%
15105        [\Hy@href@page\@pdfremotestartview]%
15106      \else
15107        (\Hy@pstringD)%
15108      \fi
15109      \Hy@SetNewWindow
15110      \Hy@href@nextactionraw
15111      >>%
15112    >>%
15113  }%
15114  \Hy@colorlink\@filecolor
15115 }%
15116 \ifmmode\else\if@RTL\beginR\fi\fi#1\ifmmode\else\if@RTL\endR\fi\fi\Hy@xspace@end
15117 \Hy@endAnnot
15118 }
15119 \def\@hyper@launch run:#1\#2#3{% filename, anchor text linkname
15120   \leavevmode
15121   \Hy@BeginAnnot{%
15122     \Hy@pstringdef\Hy@pstringF{#1}%
15123     \Hy@pstringdef\Hy@pstringP{#3}%
15124     \@pdfm@mark{%
15125       bann<<%
15126       /Type/Annot%
15127       /Subtype/Link%
15128       \ifHy@pdfa /F 4\fi
15129       \Hy@setpdfborder
15130       \ifx\@runbordercolor\relax
15131       \else
15132         /C[\@runbordercolor]%
15133       \fi
15134       /A<<%
15135       /F(\Hy@pstringF)%
15136       /S/Launch%
15137       \Hy@SetNewWindow
15138       \ifx\#3\%
15139       \else
15140         /Win<</P(\Hy@pstringP)/F(\Hy@pstringF)>>%
15141       \fi
15142       \Hy@href@nextactionraw
15143       >>%
15144     >>%
15145   }%
15146   \Hy@colorlink\@runcolor
15147 }%
15148 \ifmmode\else\if@RTL\beginR\fi\fi#2\ifmmode\else\if@RTL\endR\fi\fi\Hy@xspace@end

```



```

15149 \Hy@EndAnnot
15150 }
15151 \def\hyper@linkurl#1#2{%
15152   \leavevmode
15153   \Hy@BeginAnnot{%
15154     \Hy@pstringdef\Hy@pstringURI{#2}%
15155     \@pdfm@mark{%
15156       bann<<%
15157         /Type/Annot%
15158         /Subtype/Link%
15159         \ifHy@pdfa /F 4\fi
15160         \Hy@setpdfborder
15161         \ifx\@urlbordercolor\relax
15162           \else
15163             /C[\@urlbordercolor]%
15164           \fi
15165           /A<<%
15166           /S/URI%
15167           /URI(\Hy@pstringURI)%
15168           \ifHy@href@ismap
15169             /IsMap true%
15170           \fi
15171           \Hy@href@nextactionraw
15172         >>%
15173       >>%
15174     }%
15175     \Hy@colorlink\@urlcolor
15176   }%
15177   \ifmmode\else\ifRTL\beginR\fi\fi#1\ifmmode\else\ifRTL\endR\fi\fi\Hy@xspace@end
15178   \Hy@EndAnnot
15179 }
15180 \def\Acrobatmenu#1#2{%
15181   \Hy@Acrobatmenu{#1}{#2}%
15182   \Hy@BeginAnnot{%
15183     \EdefEscapeName\Hy@temp@menu{#1}%
15184     \@pdfm@mark{%
15185       bann<<%
15186         /Type/Annot%
15187         /Subtype/Link%
15188         \ifHy@pdfa /F 4\fi
15189         \Hy@setpdfborder
15190         \ifx\@menubordercolor\relax
15191           \else
15192             /C[\@menubordercolor]%
15193           \fi
15194           /A<<%
15195           /S/Named%
15196           /N/\Hy@temp@menu
15197           \Hy@href@nextactionraw
15198         >>%
15199       >>%
15200     }%
15201     \Hy@colorlink\@menucolor
15202   }%

```



```

15203 \ifmmode\else\if@RTL\beginR\fi\fi#2\ifmmode\else\if@RTL\endR\fi\fi\Hy@xspace@end
15204 \Hy@EndAnnot
15205 }%
15206 }
15207 \def\hyper@natlinkstart#1{%
15208 \Hy@backout{#1}%
15209 \hyper@linkstart{cite}{cite.#1}\if@RTL\beginR\fi%
15210 \def\hyper@nat@current{#1}%
15211 }
15212 \def\hyper@natlinkend{%
15213 \if@RTL\endR\fi\hyper@linkend
15214 }
15215 \def\hyper@natlinkbreak#1#2{%
15216 \if@RTL\endR\fi\hyper@linkend#1\hyper@linkstart{cite}{cite.#2}\if@RTL\beginR\fi%
15217 }%
15218 }
15219 \pdfstringdefDisableCommands{%
15220 \let\LRE\@firstofone
15221 \let\LR\@firstofone
15222 \let\RLE\@firstofone
15223 \let\RL\@firstofone
15224 \def\XeTeX{Xe\TeX}%
15225 \def\XeLaTeX{Xe\LaTeX}%
15226 }
15227 \@ifpackageloaded{longtable}{%
15228 \begingroup
15229 \def\y{\LT@array}%
15230 \@ifundefined{scr@LT@array}{%
15231 \@ifundefined{adl@LT@array}{\def\y{\adl@LT@array}}%
15232 }{\def\y{\scr@LT@array}}%
15233 \long\def\x\refstepcounter#1#2\@sharp#3#4\@nil{%
15234 \expandafter\endgroup
15235 \expandafter\def\y[##1]##2{%
15236 \H@refstepcounter{#1}%
15237 \hyper@makecurrent{table}%
15238 \let\Hy@LT@currentHref\@currentHref
15239 #2\@sharp####4%
15240 }%
15241 }%
15242 \expandafter\expandafter\expandafter\x\y[##1][##2]\@nil
15243 \begingroup
15244 \def\x#1\ifvoid\LT@foot#2\fi#3\@nil{%
15245 \endgroup
15246 \def\LT@start{%
15247 #1%
15248 \ifvoid\LT@foot#2\fi
15249 \let\@currentHref\Hy@LT@currentHref
15250 \Hy@raisedlink{%
15251 \hyper@anchorstart{\@currentHref}\hyper@anchorend
15252 }%
15253 #3%
15254 }%
15255 }%
15256 \expandafter\x\LT@start\@nil

```



```

15257 }{}
15258 \bidi@patchcmd\@TextField{%
15259   \@pdfm@mark
15260 }{%
15261   \if@RTL
15262     \hskip\Fld@width
15263   \fi
15264   \@pdfm@mark
15265 }{}{}
15266 \bidi@patchcmd\@TextField{%
15267   \unhbox
15268 }{%
15269   \if@RTL
15270     \hskip-\Fld@width
15271   \fi
15272   \unhbox
15273 }{}{}
15274 \bidi@patchcmd\@@Radio{%
15275   \@pdfm@mark
15276 }{%
15277   \if@RTL
15278     \hskip\Fld@width
15279   \fi
15280   \@pdfm@mark
15281 }{}{}
15282 \bidi@patchcmd\@@Radio{%
15283   \unhcopy
15284 }{%
15285   \if@RTL
15286     \hskip-\Fld@width
15287   \fi
15288   \unhcopy
15289 }{}{}
15290 \bidi@patchcmd\@Submit{%
15291   \@pdfm@mark
15292 }{%
15293   \if@RTL
15294     \null
15295     \hskip\wd\pdfm@box
15296   \fi
15297   \@pdfm@mark
15298 }{}{}
15299 \bidi@patchcmd\@Submit{%
15300   \unhbox
15301 }{%
15302   \if@RTL
15303     \hskip-\wd\pdfm@box
15304   \fi
15305   \unhbox
15306 }{}{}
15307 \bidi@patchcmd\@Reset{%
15308   \@pdfm@mark
15309 }{%
15310   \if@RTL

```



```

15311 \null
15312 \hskip\wd\pdfm@box
15313 \fi
15314 \@pdfm@mark
15315 }{}{}
15316 \bidi@patchcmd\@Reset{%
15317 \unhbox
15318 }{%
15319 \if@RTL
15320 \hskip-\wd\pdfm@box
15321 \fi
15322 \unhbox
15323 }{}{}

```

## 100 File `imsproc-xetex-bidi.def`

```

15324 \ProvidesFile{imsproc-xetex-bidi.def}[2017/06/09 v0.1 bidi adaptations for imsproc class for
15325 \newenvironment{thebibliography}[1]{%
15326 \bibtitlestyle
15327 \normalfont\bibliofont\labelsep .5em\relax
15328 \renewcommand\theenumiv{\arabic{enumiv}}\let\p@enumiv\@empty
15329 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
15330 \bidi@thebibliography@font@hook
15331 \list{\@biblabel{\theenumiv}}{\settowidth\labelwidth{\@biblabel{#1}}%
15332 \leftmargin\labelwidth \advance\leftmargin\labelsep
15333 \usecounter{enumiv}}%
15334 \sloppy \clubpenalty\@M \widowpenalty\clubpenalty
15335 \sfcode`\.=\@m
15336 }{%
15337 \def\@noitemerr{\@latex@warning{Empty `thebibliography' environment}}%
15338 \endlist
15339 }
15340
15341 \def\theindex{\@restonecoltrue\if@twocolumn\@restonecolfalse\fi
15342 \columnseprule\z@ \columnsep 35\p@
15343 \@indextitlestyle
15344 \thispagestyle{plain}%
15345 \let\item\@idxitem
15346 \parindent\z@ \parskip\z@\@plus.3\p@\relax
15347 \if@RTL\raggedleft\else\raggedright\fi
15348 \hyphenpenalty\@M
15349 \footnotesize}
15350 \def\@idxitem{\par\hangindent \if@RTL-\fi2em}
15351 \def\subitem{\par\hangindent \if@RTL-\fi2em\hspace*{1em}}
15352 \def\subsubitem{\par\hangindent \if@RTL-\fi3em\hspace*{2em}}
15353
15354 \def\right@footnoterule{%
15355 \kern-.4\p@
15356 \hbox to \columnwidth{\hskip \dimexpr\columnwidth-5pc\relax \hrulefill }
15357 \kern11\p@\kern-\footnotesep}
15358 \def\left@footnoterule{\kern-.4\p@
15359 \hrule\@width 5pc\kern11\p@\kern-\footnotesep}
15360 \def\@makefnmark{%
15361 \leavevmode

```



```

15362 \raise.9ex\hbox{\fontsize\sf@size\z@\normalfont\@thefnmark}%
15363 }
15364
15365 \def\part{\@startsection{part}{0}%
15366 \z@\linespacing\@plus\linespacing}{.5\linespacing}%
15367 {\normalfont\bfseries\if@RTL\raggedleft\else\raggedright\fi}}
15368 \def\@tocline#1#2#3#4#5#6#7{\relax
15369 \ifnum #1>\c@tocdepth % then omit
15370 \else
15371 \par \addpenalty\@secpenalty\addvspace{#2}%
15372 \begingroup \hyphenpenalty\@M
15373 \@ifempty{#4}{%
15374 \@tempdima\c@tocdepth\@tocdepth\@tocdepth\@tocdepth\relax
15375 }{%
15376 \@tempdima#4\relax
15377 }%
15378 \parindent\z@ \if@RTL\righskip\else\leftskip\fi#3\relax \advance\if@RTL\righskip\else\leftskip\fi#4\relax
15379 \if@RTL\leftskip\else\righskip\fi\@pnumwidth plus4em \parfillskip-\@pnumwidth
15380 #5\leavevmode\hskip-\@tempdima #6\nobreak\relax
15381 \hfil\hbox to\@pnumwidth{\@tocpagenum{#7}}\par
15382 \nobreak
15383 \endgroup
15384 \fi}
15385 \renewcommand\thesubsection {\thesection\@SepMark\arabic{subsection}}
15386 \renewcommand\thesubsubsection {\thesubsection \@SepMark\arabic{subsubsection}}
15387 \renewcommand\theparagraph {\thesubsubsection\@SepMark\arabic{paragraph}}
15388 \renewcommand\thesubparagraph {\theparagraph\@SepMark\arabic{subparagraph}}
15389 \def\maketitle{\par
15390 \topnum\z@ % this prevents figures from falling at the top of page 1
15391 \setcopyright
15392 \thispagestyle{firstpage}% this sets first page specifications
15393 \uppercasenonmath\shorttitle
15394 \ifx\@empty\shortauthors \let\shortauthors\shorttitle
15395 \else \andify\shortauthors
15396 \fi
15397 \@maketitle@hook
15398 \begingroup
15399 \@maketitle
15400 \toks@{\exp\shortauthors}\@temptokena{\exp\shorttitle}%
15401 \toks4{\def\ignorespaces}% defend against questionable usage
15402 \edef\@tempa{%
15403 \nx\markboth{\the\toks4
15404 \nx\MakeUppercase{\the\toks@}}{\the\@temptokena}}%
15405 \@tempa
15406 \endgroup
15407 \c@footnote\z@
15408 \cleartopmattertags
15409 }

```

## 101 File leqno-xetex-bidi.def

```

15410 \ProvidesFile{leqno-xetex-bidi.def}[2018/01/07 v0.2 bidi adaptations for leqno tag for XeTeX]
15411 \renewcommand\@eqnnum{\hbxt@.01p@{}%
15412 \rlap{\hskip -\displaywidth

```



```

15413                                     {\normalfont\normalcolor\if@RTL\beginR\fi(\theequation)\if@RTL\endR\fi}

```

## 102 File letter-xetex-bidi.def

```

15414 \ProvidesFile{letter-xetex-bidi.def}[2015/11/14 v0.3 bidi adaptations for standard letter class]
15415 \renewcommand*{\opening}[1]{\ifx\@empty\fromaddress
15416   \thispagestyle{firstpage}%
15417   {\if@RTL\raggedright\else\raggedleft\fi\@date\par}%
15418 \else % home address
15419   \thispagestyle{empty}%
15420   {\if@RTL\raggedright\else\raggedleft\fi\if@RTL\begin{tabular}{r@{}}\else\begin{tabular}{l@{}}\fi
15421     \fromaddress \\\*[2\parskip]%
15422     \@date \end{tabular}\par}%
15423 \fi
15424 \vspace{2\parskip}%
15425 {\if@RTL\raggedleft\else\raggedright\fi \toname \\\ \toaddress \par}%
15426 \vspace{2\parskip}%
15427 #1\par\nobreak}
15428 \renewcommand\left@footnoterule{%
15429   \kern-\p@
15430   \hrule \@width .4\columnwidth
15431   \kern .6\p@}
15432 \renewcommand\right@footnoterule{%
15433   \kern-\p@
15434   \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
15435   \kern .6\p@}

```

## 103 File lettrine-xetex-bidi.def

```

15436 \ProvidesFile{lettrine-xetex-bidi.def}[2019/05/01 v0.7 bidi adaptations for lettrine package]
15437 \def\@lettrine[#1]#2#3{%
15438   \def\l@initial{#2}\let\l@refstring\l@initial
15439   \setcounter{L@lines}{\value{DefaultLines}}%
15440   \setcounter{L@depth}{\value{DefaultDepth}}%
15441   \renewcommand*{\L@hang}{\DefaultLhang}%
15442   \renewcommand*{\L@oversize}{\DefaultLoversize}%
15443   \renewcommand*{\L@raise}{\DefaultLraise}%
15444   \renewcommand*{\L@ante}{}%
15445   \setlength{\L@Findent}{\DefaultFindent}%
15446   \setlength{\L@Nindent}{\DefaultNindent}%
15447   \setlength{\L@slope}{\DefaultSlope}%
15448   \setlength{\L@novskip}{\DiscardVskip}%
15449   \ifLettrineImage\L@imagetrue\else\L@imagefalse\fi
15450   \ifLettrineOnGrid\L@gridtrue\else\L@gridfalse\fi
15451   \ifLettrineRealHeight\L@realhtrue\else\L@realhfalse\fi
15452   \ifLettrineSelfRef\L@selfreftrue\else\L@selfreffalse\fi
15453   \setkeys{L}{#1}%
15454   \sbox{\L@tbox}{\LettrineTextFont{\LettrineSecondString}}%
15455   \ifL@realh
15456     \def\@tempa{#3}%
15457     \ifx\@tempa\@empty
15458       \PackageWarning{lettrine.sty}%
15459         {Empty second argument,\MessageBreak
15460          ignoring option `realheight';}%

```



```

15461 \else
15462 \sbox{\L@tbox}{\LettrineTextFont{#3}}%
15463 \fi
15464 \fi
15465 \if\DefaultOptionsFile\relax
15466 \else
15467 \begingroup
15468 \InputIfFileExists{\DefaultOptionsFile}%
15469 {}%
15470 {\PackageWarning{lettrine.sty}%
15471 {File \DefaultOptionsFile\space not found}%
15472 }%
15473 \def\color##1##{\l@color{##1}}%
15474 \let\l@color\@gobbletwo
15475 \def\textcolor##1##{\l@textcolor{##1}}%
15476 \def\l@textcolor##1##2##3{##3}%
15477 \expandafter\ifx\csname l@#2-keys\endcsname\relax
15478 \gdef\l@LOKeys{}%
15479 \else
15480 \xdef\l@LOKeys{\csname l@#2-keys\endcsname}%
15481 \fi
15482 \endgroup
15483 \def\KV@prefix{KV@L@}%
15484 \let\@tempc\relax
15485 \expandafter\KV@do\l@LOKeys,\relax,
15486 \setupL@lbox
15487 \setlength{\LettrineWidth}{\wd\L@lbox}%
15488 \def\KV@prefix{KV@L@}%
15489 \let\@tempc\relax
15490 \expandafter\KV@do\l@LOKeys,\relax,
15491 \setkeys{L}{#1}%
15492 \fi
15493 \setupL@lbox
15494 \setlength{\LettrineWidth}{\wd\L@lbox}%
15495 \setlength{\LettrineHeight}{\ht\L@lbox}%
15496 \setlength{\LettrineDepth}{\dp\L@lbox}%
15497 \begingroup
15498 \def\IeC##1{##1}%
15499 \@tempdima=\L@oversize pt\relax
15500 \PackageInfo{lettrine.sty}%
15501 {Targeted height = \the\L@target@tth\MessageBreak
15502 (no accent, loversize=0),\MessageBreak
15503 Lettrine height = \the\LettrineHeight\space (#2)%
15504 \ifdim\@tempdima=z@\else\space loversize=\L@oversize\fi;%
15505 \MessageBreak reported}%
15506 \endgroup
15507 \sbox{\L@tbox}{\LettrineTextFont{#3}}%
15508 \setlength{\L@first}{\LettrineHeight}%
15509 \setlength{\L@lraise}{\L@raise\L@target@tth}%
15510 \addtolength{\L@first}{\L@lraise}%
15511 \ifnum\value{L@lines}=1
15512 \addtolength{\L@first}{-\ht\L@tbox}%
15513 \else
15514 \addtolength{\L@first}{-\L@target@tth}%

```



```

15515 \addtolength{\L@lraise}{-\L@target@dp}%
15516 \fi
15517 \par
15518 \ifdim\L@first>\L@novskip
15519 \ifL@grid
15520 \@tempdima=\baselineskip
15521 \@tempdimb=\@tempdima
15522 \advance\@tempdimb by \L@novskip
15523 \@tempcnta=1
15524 \loop\ifdim\L@first>\@tempdimb
15525 \advance\@tempcnta by 1
15526 \advance\L@first by -\@tempdima
15527 \repeat
15528 \L@first=\@tempcnta\baselineskip
15529 \fi
15530 \vskip\L@first
15531 \fi
15532 \setlength{\L@Pindent}{\wd\L@lbox}%
15533 \addtolength{\L@Pindent}{-\L@hang\wd\L@lbox}%
15534 \settowidth{\L@first}{\L@ante}%
15535 \addtolength{\L@Pindent}{\L@first}%
15536 \addtolength{\L@Pindent}{\L@Findent}%
15537 \setlength{\L@first}{\linewidth}%
15538 \addtolength{\L@first}{-\L@Pindent}%
15539 \addtolength{\L@Nindent}{\L@Pindent}%
15540 \setlength{\L@next}{\linewidth}%
15541 \addtolength{\L@next}{-\L@Nindent}%
15542 \addtolength{\L@Pindent}{\@totalleftmargin}%
15543 \addtolength{\L@Nindent}{\@totalleftmargin}%
15544 \addtocounter{L@lines}{1}%
15545 \addtocounter{L@lines}{\value{L@depth}}%
15546 \ifRTL
15547 \def\L@parshape{\c@L@lines \z@ \the\L@first}%
15548 \else
15549 \def\L@parshape{\c@L@lines \the\L@Pindent \the\L@first}%
15550 \fi
15551 \@tempcnta=\tw@
15552 \@whilenum \@tempcnta<\c@L@lines\do{%
15553 \ifRTL
15554 \edef\L@parshape{\L@parshape \z@ \the\L@next}%
15555 \else
15556 \edef\L@parshape{\L@parshape \the\L@Nindent \the\L@next}%
15557 \fi
15558 \addtolength{\L@Nindent}{\L@slope}%
15559 \addtolength{\L@next}{-\L@slope}%
15560 \advance\@tempcnta\@ne}%
15561 \ifRTL
15562 \edef\L@parshape{\L@parshape \z@ \the\linewidth}%
15563 \else
15564 \edef\L@parshape{\L@parshape \@totalleftmargin \the\linewidth}%
15565 \fi
15566 \noindent
15567 \parshape=\L@parshape\relax
15568 \smash{\llap{\mbox{\L@ante}\raisebox{\L@lraise}{\usebox{\L@lbox}}}%

```



```

15569         \hskip \the\L@Findent}}}%
15570 \usebox{\L@tbox}%
15571 \ifnum\@listdepth>0 \Lreset@listparshape \fi
15572 }

```

## 104 File lineno-xetex-bidi.def

```

15573 \ProvidesFile{lineno-xetex-bidi.def}[2018/01/28 v0.2 bidi adaptations for lineno package for
15574 \bidi@patchcmd{\MakeLineNo}{\%
15575 \hb@xt@\z@\makeLineNumber}%
15576 }{\%
15577 \hboxL to \z@\makeLineNumber}%
15578 }{}{}
15579
15580 \bidi@patchcmd{\makeLineNumberLeft}{\LineNumber}{\%
15581 \if@RTL
15582 \hb@xt@\linenumberwidth{\LineNumber\hss}%
15583 \else
15584 \LineNumber
15585 \fi
15586 }{}{}
15587
15588 \bidi@patchcmd{\makeLineNumberRight}{\%
15589 \hb@xt@\linenumberwidth{\hss\LineNumber}%
15590 }{\%
15591 \if@RTL
15592 \LineNumber
15593 \else
15594 \hb@xt@\linenumberwidth{\hss\LineNumber}%
15595 \fi
15596 }{}{}
15597
15598 \bidi@AfterPreamble{\%
15599 \if@RTLmain
15600 \rightlinenumbers*
15601 \else
15602 \leftlinenumbers*
15603 \fi
15604 \@ifpackagewith{lineno}{left}{\%
15605 \leftlinenumbers*
15606 }{}
15607 \@ifpackagewith{lineno}{right}{\%
15608 \rightlinenumbers*
15609 }{}
15610 }
15611

```

## 105 File listings-xetex-bidi.def

```

15612 \ProvidesFile{listings-xetex-bidi.def}[2018/09/15 v1.5 bidi adaptations for listings package
15613 \lst@Key{captiondirection}{textdirection}{\%
15614 \lstKV@SwitchCases{#1}%
15615 {textdirection:\\%
15616 RTL:\chardef\bidi@lst@caption@direction\@ne\\%

```



```

15617 LTR:\chardef\bidi@lst@caption@direction\z@%
15618 }\PackageError{Listings}{direction #1 unknown}\@ehc}}
15619
15620 \lst@Key{captionscript}{textscript}{%
15621 \lstKV@SwitchCases{#1}%
15622 {textscript:\%
15623 latin:\chardef\bidi@lst@caption@script\@ne\%
15624 nonlatin:\chardef\bidi@lst@caption@script\z@%
15625 }\PackageError{Listings}{direction #1 unknown}\@ehc}}
15626
15627 \newcommand*{\bidi@lst@ensure@caption@direction}[2]{%
15628 \ifundefined{bidi@lst@caption@direction}{}%
15629 \ifnum\bidi@lst@caption@direction=\z@%
15630 #1%
15631 \else%
15632 \ifnum\bidi@lst@caption@direction=\@ne%
15633 #2%
15634 \fi%
15635 \fi%
15636 }}
15637
15638 \newcommand*{\bidi@lst@ensure@caption@script}[2]{%
15639 \ifundefined{bidi@lst@caption@script}{}%
15640 \ifnum\bidi@lst@caption@script=\z@%
15641 #1%
15642 \else%
15643 \ifnum\bidi@lst@caption@script=\@ne%
15644 #2%
15645 \fi%
15646 \fi%
15647 }}
15648
15649 \long\def\@bidi@lst@makecaption#1#2{%
15650 \bidi@lst@ensure@caption@script{\@nonlatintrue}{\@nonlatinfalse}%
15651 \vskip\abovecaptionskip
15652 \bidi@lst@ensure@caption@direction{\@RTLfalse}{\@RTLtrue}%
15653 \sbox\@tempboxa{%
15654 \bidi@lst@ensure@caption@direction{\beginL}{\beginR}%
15655 #1: #2%
15656 \bidi@lst@ensure@caption@direction{\endL}{\endR}%
15657 }%
15658 \ifdim \wd\@tempboxa >\hsize
15659 #1: #2\par
15660 \else
15661 \global \@minipagefalse
15662 \hb@xt@\hsize{\hfil\box\@tempboxa\hfil}%
15663 \fi
15664 \vskip\belowcaptionskip}%
15665 \def\lst@makecaption{\@bidi@lst@makecaption}
15666 \def\lst@maketitle{\@bidi@lst@makecaption\lst@title@dropdelim}
15667 \bidi@AtEndPreamble{%
15668 \bidi@patchcmd{\lst@MakeCaption}{%
15669 \ifx #1t%
15670 \ifx\lst@caption\@empty\expandafter\lst@HRefStepCounter \else

```



```

15671                                     \expandafter\refstepcounter
15672         \fi {lstlisting}%
15673 }{%
15674     \ifx #1%
15675         \bidi@lst@ensure@caption@direction{\@RTLfalse}{\@RTLtrue}%
15676         \ifx\lst@@caption\@empty\expandafter\lst@HRefStepCounter \else
15677             \expandafter\refstepcounter
15678         \fi {lstlisting}%
15679         \bidi@lst@ensure@caption@direction{\@RTLfalse}{\@RTLfalse}%
15680 }{}{}%
15681 \bidi@patchcmd{\lst@MakeCaption}{%
15682     \addcontentsline{lol}{lstlisting}%
15683     {\protect\numberline{\thelstlisting}\lst@@caption}%
15684 }{}%
15685 \begingroup%
15686     \bidi@lst@ensure@caption@direction{\@RTLfalse}{\@RTLtrue}%
15687     \addcontentsline{lol}{lstlisting}%
15688     {\protect\numberline{\thelstlisting}\lst@@caption}%
15689 \endgroup%
15690 }{}{}%
15691 }
15692 \@ifpackageloaded{caption}{%
15693     \AtBeginCaption{%
15694         \bidi@lst@ensure@caption@script{\@nonlatintrue}{\@nonlatinfalse}%
15695         \bidi@lst@ensure@caption@direction{\@RTLfalse}{\@RTLtrue}%
15696     }
15697     \let\@bidi@lst@makecaption\caption@makecaption%
15698     \def\lst@makecaption{\caption@starfalse\@bidi@lst@makecaption}%
15699     \def\lst@maketitle{\caption@startrue\@bidi@lst@makecaption\@empty}%
15700 }{}%
15701 \AtBeginDocument{%
15702     \@ifundefined{captionlabelfalse}{}{}%
15703     \def\lst@maketitle{\captionlabelfalse\@bidi@lst@makecaption\@empty}}%
15704     \@ifundefined{caption@startrue}{}{}%
15705     \def\lst@maketitle{\caption@startrue\@bidi@lst@makecaption\@empty}}%
15706 }{}%
15707 }
15708 \AtBeginDocument{
15709     \@ifundefined{thechapter}{\let\lst@ifnumberbychapter\iffalse}{}
15710     \lst@ifnumberbychapter
15711         \gdef\thelstlisting%
15712             {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@lstlisting}
15713     \else
15714         \gdef\thelstlisting{\@arabic\c@lstlisting}
15715     \fi}

```

## 106 File loadingorder-xetex-bidi.def

```

15716 \ProvidesFile{loadingorder-xetex-bidi.def}[2017/12/29 v0.97 making sure that bidi is the las
15717 \bidi@isloaded{amsmath}
15718 \bidi@isloaded{amstext}
15719 \bidi@isloaded{amsthm}
15720 \bidi@isloaded{animate}
15721 \bidi@isloaded{breqn}

```



```

15722 \bidi@isloaded{cals}
15723 \bidi@isloaded{caption}
15724 \bidi@isloaded{crop}
15725 \bidi@isloaded{cuted}
15726 \bidi@isloaded{cutwin}
15727 \bidi@isloaded{color}
15728 \bidi@isloaded{dblfnote}
15729 \bidi@isloaded{diagbox}
15730 \bidi@isloaded{xcolor}
15731 \bidi@isloaded{colortbl}
15732 \bidi@isloaded{float}
15733 \bidi@isloaded{floatrow}
15734 \bidi@isloaded{flowfram}
15735 \bidi@isloaded{framed}
15736 \bidi@isloaded{ftnright}
15737 \bidi@isloaded{xltextra}
15738 \bidi@isloaded{xunicode}
15739 \bidi@isloaded{wrapfig}
15740 \bidi@isloaded{graphicx}
15741 \bidi@isloaded{geometry}
15742 \bidi@isloaded{hvfloat}
15743 \bidi@isloaded{mdframed}
15744 \bidi@isloaded{midfloat}
15745 \bidi@isloaded{ntheorem}
15746 \bidi@isloaded{ntheorem-hyper}
15747 \bidi@isloaded{hyperref}
15748 \bidi@isloaded{fancybox}
15749 \bidi@isloaded{fancyhdr}
15750 \bidi@isloaded{fix2col}
15751 \bidi@isloaded{draftwatermark}
15752 \bidi@isloaded{empheq}
15753 \bidi@isloaded{overpic}
15754 \bidi@isloaded{pdfpages}
15755 \bidi@isloaded{listings}
15756 \bidi@isloaded{lettrine}
15757 \bidi@isloaded{lineno}
15758 \bidi@isloaded{media9}
15759 \bidi@isloaded{pstricks}
15760 \bidi@isloaded{pgf}
15761 \bidi@isloaded{picinpar}
15762 \bidi@isloaded{quotchap}
15763 \bidi@isloaded{tikz}
15764 \bidi@isloaded{titlesec}
15765 \bidi@isloaded{titletoc}
15766 \bidi@isloaded{array}
15767 \bidi@isloaded{soul}
15768 \bidi@isloaded{stabular}
15769 \bidi@isloaded{subfig}
15770 \bidi@isloaded{subfigure}
15771 \bidi@isloaded{supertabular}
15772 \bidi@isloaded{xtab}
15773 \bidi@isloaded{longtable}
15774 \bidi@isloaded{arydshln}
15775 \bidi@isloaded{multicol}

```



```

15776 \bidi@isloaded{multienum}
15777 \bidi@isloaded{minitoc}
15778 \bidi@isloaded{natbib}
15779 \bidi@isloaded{newfloat}
15780 \bidi@isloaded{ragged2e}
15781 \bidi@isloaded{rotating}
15782 \bidi@isloaded{tabls}
15783 \bidi@isloaded{tabulary}
15784 \bidi@isloaded{tocbasic}
15785 \bidi@isloaded{tocstyle}
15786 \bidi@isloaded{tocbibind}
15787 \bidi@isloaded{fontspec}
15788 \bidi@isloaded{arabxetex}
15789 \bidi@isloaded{polyglossia}
15790 \bidi@isloaded{fancyvrb}
15791 \AtBeginDocument{
15792   \if@bidi@amsmathloaded@else
15793     \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package amsmath after bidi pack
15794   \fi%
15795   \if@bidi@amstextloaded@else
15796     \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package amstext after bidi pack
15797   \fi%
15798   \if@bidi@amsthmloaded@else
15799     \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package amsthm after bidi packa
15800   \fi%
15801   \if@bidi@animateloaded@else
15802     \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package animate after bidi pack
15803   \fi%
15804   \if@bidi@breqnloaded@else
15805     \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package breqn after bidi packag
15806   \fi%
15807   \if@bidi@calsloaded@else
15808     \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package cals after bidi packag
15809   \fi%
15810   \if@bidi@captionloaded@else
15811     \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package caption after bidi pack
15812   \fi%
15813   \if@bidi@croploaded@else
15814     \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package crop after bidi packag
15815   \fi%
15816   \if@bidi@colorloaded@else
15817     \@ifpackageloaded{hyperref}{\fi}%
15818     \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package color after bidi packag
15819   \fi%
15820   \if@bidi@cutwinloaded@else
15821     \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package cutwin after bidi packa
15822   \fi%
15823     \if@bidi@cutedloaded@else
15824       \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package cuted after bidi packag
15825     \fi%
15826   \if@bidi@dblfnoteloaded@else
15827     \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package dblfnote after bidi pac
15828   \fi%
15829   \if@bidi@diagboxloaded@else

```



```

15830     \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package diagbox after bidi pack
15831 \fi%
15832 \if@bidi@xcolorloaded@else
15833     \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package xcolor after bidi packa
15834 \fi%
15835 \if@bidi@colortblloaded@else
15836     \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package colortbl after bidi pac
15837 \fi%
15838 \if@bidi@floatloaded@else
15839     \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package float after bidi packag
15840 \fi%
15841     \if@bidi@floatrowloaded@else
15842     \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package floatrow after bidi pac
15843 \fi%
15844 \if@bidi@flowframloaded@else
15845     \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package flowfram after bidi pac
15846 \fi%
15847 \if@bidi@framedloaded@else
15848     \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package framed after bidi packa
15849 \fi%
15850     \if@bidi@ftnrightloaded@else
15851     \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package ftnright after bidi pac
15852 \fi%
15853 \if@bidi@xltxtraloaded@else
15854     \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package xltxtra after bidi pack
15855 \fi%
15856 \if@bidi@xunicodeloaded@else
15857     \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package xunicode after bidi pac
15858 \fi%
15859 \if@bidi@wrapfigloaded@else
15860     \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package wrapfig after bidi pack
15861 \fi%
15862 \if@bidi@graphicxloaded@else
15863     \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package graphicx after bidi pac
15864 \fi%
15865     \if@bidi@geometryloaded@else
15866     \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package geometry after bidi pac
15867 \fi%
15868 \if@bidi@hvfloatloaded@else
15869     \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package hvfloat after bidi pack
15870 \fi%
15871     \if@bidi@mdframedloaded@else
15872     \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package mdframed after bidi pac
15873 \fi%
15874     \if@bidi@midfloatloaded@else
15875     \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package midfloat after bidi pac
15876 \fi%
15877     \if@bidi@ntheoremloaded@else
15878     \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package ntheorem after bidi pac
15879 \fi%
15880 \if@bidi@hyperrefloaded@else
15881     \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package hyperref after bidi pac
15882 \fi%
15883     \if@bidi@fancyboxloaded@else

```



```

15884 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package fancybox after bidi pac
15885 \fi%
15886 \if@bidi@fancyhdrloaded@else
15887 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package fancyhdr after bidi pac
15888 \fi%
15889 \if@bidi@draftwatermarkloaded@else
15890 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package draftwatermark after bi
15891 \fi%
15892 \if@bidi@empheqloaded@else
15893 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package empheq after bidi packa
15894 \fi%
15895 \if@bidi@overpicloaded@else
15896 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package overpic after bidi pack
15897 \fi%
15898 \if@bidi@pdfpagesloaded@else
15899 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package pdfpages after bidi pac
15900 \fi%
15901 \if@bidi@lettrineloaded@else
15902 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package lettrine after bidi pac
15903 \fi%
15904 \if@bidi@linenoloaded@else
15905 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package lineno after bidi packa
15906 \fi%
15907 \if@bidi@listingsloaded@else
15908 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package listings after bidi pac
15909 \fi%
15910 \csname if@bidi@media9loaded@endcsname\else
15911 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package media9 after bidi packa
15912 \fi%
15913 \if@bidi@pstricksloaded@else
15914 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package pstricks after bidi pac
15915 \fi%
15916 \if@bidi@pgfloaded@else
15917 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package pgf after bidi package.
15918 \fi%
15919 \if@bidi@picinparloaded@else
15920 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package picinpar after bidi pac
15921 \fi%
15922 \if@bidi@quotchaploaded@else
15923 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package quotchap after bidi pac
15924 \fi%
15925 \if@bidi@tikzloaded@else
15926 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package tikz after bidi package
15927 \fi%
15928 \if@bidi@titlesecloaded@else
15929 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package titlesec after bidi pac
15930 \fi%
15931 \if@bidi@titletocloaded@else
15932 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package titletoc after bidi pac
15933 \fi%
15934 \if@bidi@arrayloaded@else
15935 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package array after bidi packag
15936 \fi%
15937 \if@bidi@stabularloaded@else

```



```

15938 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package stabular after bidi pac
15939 \fi%
15940 \if@bidi@soulloaded@else
15941 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package soul after bidi package
15942 \fi%
15943 \if@bidi@subfigloaded@else
15944 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package subfig after bidi packa
15945 \fi%
15946 \if@bidi@subfigureloaded@else
15947 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package subfigure after bidi pa
15948 \fi%
15949 \if@bidi@supertabularloaded@else
15950 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package supertabular after bidi
15951 \fi%
15952 \if@bidi@xtabloaded@else
15953 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package xtab after bidi package
15954 \fi%
15955 \if@bidi@longtableloaded@else
15956 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package longtable after bidi pa
15957 \fi%
15958 \if@bidi@arydshnloaded@else
15959 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package arydshn after bidi pac
15960 \fi%
15961 \if@bidi@multicolloaded@else
15962 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package multicol after bidi pac
15963 \fi%
15964 \if@bidi@multienumloaded@else
15965 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package multienum after bidi pa
15966 \fi%
15967 \if@bidi@minitocloaded@else
15968 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package minitoc after bidi pack
15969 \fi%
15970 \if@bidi@natbibloaded@else
15971 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package natbib after bidi packa
15972 \fi%
15973 \if@bidi@newfloatloaded@else
15974 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package newfloat after bidi pac
15975 \fi%
15976 \csname if@bidi@ragged2eloaded@endcsname\else
15977 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package ragged2e after bidi pac
15978 \fi%
15979 \if@bidi@rotatingloaded@else
15980 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package rotating after bidi pac
15981 \fi%
15982 \if@bidi@tblsloaded@else
15983 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package tbls after bidi packag
15984 \fi%
15985 \if@bidi@tabularyloaded@else
15986 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package tabulary after bidi pac
15987 \fi%
15988 \if@bidi@tocbasicloaded@else
15989 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package tocbasic after bidi pac
15990 \fi%
15991 \if@bidi@tocstyleloaded@else

```



```

15992 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package toctstyle after bidi pac
15993 \fi%
15994 \if@bidi@tocbibindloaded@else
15995 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package tocbibind after bidi pa
15996 \fi%
15997 \if@bidi@fontspecloaded@else
15998 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package fontspec after bidi pac
15999 \fi%
16000 \if@bidi@arabxetexloaded@else
16001 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package arabxetex after bidi pa
16002 \fi%
16003 \if@bidi@polyglossialloaded@else
16004 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package polyglossia after bidi
16005 \fi%
16006 \if@bidi@fancyvrbloaded@else
16007 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package fancyvrb after bidi pac
16008 \fi%
16009 }

```

## 107 File longtable-xetex-bidi.def

```

16010 \ProvidesFile{longtable-xetex-bidi.def}[2022/05/20 v0.6 bidi adaptations for longtable packa
16011 \def\LT@array[#1]#2{%
16012 \refstepcounter{table}\stepcounter{LT@tables}%
16013 \if l#1%
16014 \if@RTLtab\LTleft\fill \LTright\z@else\LTleft\z@ \LTright\fill\fi
16015 \else\if r#1%
16016 \if@RTLtab\LTleft\z@ \LTright\fill\else\LTleft\fill \LTright\z@\fi
16017 \else\if c#1%
16018 \LTleft\fill \LTright\fill
16019 \fi\fi\fi
16020 \let\LT@mcol\multicolumn
16021 \let\LT@@tabarray\@tabarray
16022 \let\LT@@hl\hline
16023 \def\@tabarray{%
16024 \let\hline\LT@@hl
16025 \LT@@tabarray}%
16026 \let\\LT@tabularcr\let\tabularnewline\\%
16027 \def\newpage{\noalign{\break}}%
16028 \def\pagebreak{\noalign{\ifnum`=0\fi\@testopt{\LT@no@pgbk-}4}}%
16029 \def\nopagebreak{\noalign{\ifnum`=0\fi\@testopt{\LT@no@pgbk4}}%
16030 \let\hline\LT@hline \let\kill\LT@kill\let\caption\LT@caption
16031 \@tempdima\ht\strutbox
16032 \let\@endpbox\LT@endpbox
16033 \ifx\extrarowheight\@undefined
16034 \let\@acol\@tabacol
16035 \let\@classz\@tabclassz \let\@classiv\@tabclassiv
16036 \def\@startpbox{\vtop\LT@startpbox}%
16037 \let\@@startpbox\@startpbox
16038 \let\@@endpbox\@endpbox
16039 \let\LT@LL@FM@cr\@tabularcr
16040 \else
16041 \advance\@tempdima\extrarowheight
16042 \col@sep\tabcolsep

```



```

16043 \let\startpbox\LT@startpbox\let\LT@LL@FM@cr\@arraycr
16044 \fi
16045 \setbox\@arstrutbox\hbox{\vrule
16046 \@height \arraystretch \@tempdima
16047 \@depth \arraystretch \dp \strutbox
16048 \@width \z@}%
16049 \let\@sharp#\let\protect\relax
16050 \begingroup
16051 \mkpream{#2}%
16052 \xdef\LT@bchunk{%
16053 \global\advance\c@LT@chunks\@ne
16054 \global\LT@rows\z@\setbox\z@\vbox\bgroup
16055 \LT@setprevdepth
16056 \tabskip\LTleft \noexpand\halign to\hsize\bgroup
16057 \tabskip\z@ \@arstrut \@preamble \tabskip\LTRight \cr}%
16058 \endgroup
16059 \expandafter\LT@nofcols\LT@bchunk&\LT@nofcols
16060 \LT@make@row
16061 \m@th\let\par\@empty
16062 \everycr{}\lineskip\z@\baselineskip\z@
16063 \LT@bchunk}
16064 \def\LT@makecaption#1#2#3{%
16065 \LT@mcol\LT@cols c{\hbox to\z@{\hss\parbox[t]\LTcapwidth{%
16066 \sbox\@tempboxa{\if@RTL\beginR\fi#1{#2: }#3\if@RTL\endR\fi}%
16067 \ifdim\wd\@tempboxa>\hsize
16068 #1{#2: }#3%
16069 \else
16070 \hbox to\hsize{\hfil\box\@tempboxa\hfil}}%
16071 \fi
16072 \endgraf\vskip\baselineskip}%
16073 \hss}}
16074 \ifpackageloaded{caption}{%
16075 \renewcommand\LT@makecaption[3]{%
16076 \caption@LT@make{%
16077 \caption@LT@settype\LTcaptype
16078 \caption@LT@setup
16079 \caption@setautoposition{\ifcase\LT@rows t\else b\fi}%
16080 \caption@startrue#1\caption@starfalse
16081 \caption@prepare@stepcounter\LTcaptype
16082 \caption@begin\LTcaptype
16083 \caption@normalsize
16084 \vskip-\ht\strutbox
16085 \caption@ifdefined\FBifcapttop{%
16086 \let\caption@belowskip\@empty}{}%
16087 \caption@make@above
16088 \caption@make{#2}{#3}\endgraf
16089 \caption@make@below
16090 \caption@end}}%
16091 }{}
16092 \def\LT@startpbox#1{%
16093 \bgroup\color@begingroup
16094 \let\@footnotetext\LT@p@fnttext
16095 \let\@LTRfootnotetext\LT@p@LTRfnttext
16096 \let\@RTLfootnotetext\LT@p@RTLfnttext

```



```

16097 \setlength\hsize{#1}%
16098 \@arrayparboxrestore
16099 \vrule \@height \ht\@arstrutbox \@width \z@}
16100 \def\LT@p@LTRfnttext#1{%
16101 \edef\@tempa{\the\LT@p@fnt\noexpand\LTRfootnotetext[\the\c@footnote]}}%
16102 \global\LT@p@fnt\expandafter{\@tempa{#1}}}%
16103 \def\LT@p@RTLfnttext#1{%
16104 \edef\@tempa{\the\LT@p@fnt\noexpand\RTLfootnotetext[\the\c@footnote]}}%
16105 \global\LT@p@fnt\expandafter{\@tempa{#1}}}%
16106
16107
16108 \def\LT@output{%
16109 \ifnum\outputpenalty <-\@Mi
16110 \ifnum\outputpenalty > -\LT@end@pen
16111 \LT@err{floats and marginpars not allowed in a longtable}\@ehc
16112 \else
16113 \setbox\z@\vbox{\unvbox\@cclv}%
16114 \ifdim \ht\LT@lastfoot>\ht\LT@foot
16115 \dimen@ \pagegoal
16116 \advance\dimen@-\ht\LT@lastfoot
16117 \ifdim\dimen@<\ht\z@
16118 \setbox\@cclv\vbox{\unvbox\z@\copy\LT@foot\vss}%
16119 \@makecol
16120 \@outputpage
16121 \setbox\z@\vbox{\box\LT@head}%
16122 \fi
16123 \fi
16124 \global\@colroom\@colht
16125 \global\vsizel\@colht
16126 \vbox
16127 {\if@RTLtab\hbox\bgroup\beginR\vbox\bgroup\fi\unvbox\z@\box\ifvoid\LT@lastfoot\LT@fo
16128 \fi
16129 \else
16130 \setbox\@cclv\vbox{\if@RTLtab\hbox\bgroup\beginR\vbox\bgroup\fi\unvbox\@cclv\copy\LT@fo
16131 \@makecol
16132 \@outputpage
16133 \global\vsizel\@colroom
16134 \copy\LT@head\nobreak
16135 \fi}

```

## 108 File `lscapexetex-bidi.def`

```

16136 \ProvidesFile{lscapexetex-bidi.def}[2022/02/18 v0.1 bidi adaptations for lscapexetex package for
16137 \bidi@patchcmd{\LS@rot}{\rotatebox{90}{\box\@outputbox}}{%
16138 \ifRTL
16139 \rotatebox[origin=br]{-90}{\box\@outputbox}%
16140 \else
16141 \rotatebox{90}{\box\@outputbox}%
16142 \fi
16143 }{}{}
16144 \g@addto@macro{\landscape}{%
16145 \let\bidi@left@footnoterule\left@footnoterule
16146 \let\bidi@right@footnoterule\right@footnoterule
16147 \def\left@footnoterule{%

```



```

16148 \if@RTL
16149 \bidi@right@footnoterule
16150 \else
16151 \bidi@left@footnoterule
16152 \fi
16153 }%
16154 \def\right@footnoterule{%
16155 \if@RTL
16156 \bidi@left@footnoterule
16157 \else
16158 \bidi@right@footnoterule
16159 \fi
16160 }%
16161 }

```

## 109 File mathtools-xetex-bidi.def

```

16162 \ProvidesFile{mathtools-xetex-bidi.def}[2018/01/07 v0.1 bidi adaptations for mathtools packa
16163 \MHInternalSyntaxOn
16164 \def\MT_define_tagform:nwnn #1[#2]#3#4{
16165 \@namedef{MT_tagform_#1:n}##1
16166 {\maketag@@@{\if@nonlatin\beginR\fi#3\kern\z@\ignorespaces#2{##1}\unskip\@italiccorr#4}
16167 }
16168 \renewtagform{default}{\{()\}}
16169 \MHInternalSyntaxOff

```

## 110 File mdframed-xetex-bidi.def

```

16170 \ProvidesFile{mdframed-xetex-bidi.def}[2013/09/22 v0.4 bidi adaptations for mdframed package
16171 \newif\if@bidi@mdf@RTL
16172 \def\mdf@lrbox#1{%
16173 \mdf@patchamsthm%patch amsthm
16174 \if@RTL\@bidi@mdf@RTLtrue\fi%
16175 \@RTLfalse%
16176 \setbox#1\vbox\bgroup%
16177 \color@begingroup%
16178 \if@bidi@mdf@RTL\@RTLtrue\fi%
16179 \mdf@horizontalmargin@equation%
16180 \columnwidth=\hsize%
16181 \textwidth=\hsize%
16182 \let\if@nobreak\iffalse%
16183 \let\if@noskipsec\iffalse%
16184 \let\par\@par%
16185 \let\-\@dischph%
16186 \let'\@acci\let'\@accii\let\=\@acciii%
16187 \parindent\z@ \parskip\z@skip%
16188 \linewidth\hsize%
16189 \@totalleftmargin\z@%
16190 \leftskip\z@skip \rightskip\z@skip \@rightskip\z@skip%
16191 \parfillskip\@flushglue \lineskip\normallineskip%
16192 \baselineskip\normalbaselineskip%
16193 %% \sloppy%
16194 \let\\\@normalcr%
16195 \mdf@par@local%New feature to restore parskip/parindent local in save box

```



```

16196     \ifbool{mdf@suppressfirstparskip}{\vspace*{-\parskip}}{}%
16197     \@afterindentfalse%
16198     %\@afterheading%
16199 }
16200 \renewrobustcmd\mdfframedtitleenv[1]{%
16201     \mdf@lrbox{\mdf@frametitlebox}%
16202     \mdf@frametitlealignment%
16203     \leavevmode{\color{\mdf@frametitlefontcolor}%
16204         \normalfont\mdf@frametitlefont{#1}
16205         \ifbool{mdf@ignorelastdescenders}%
16206             {%
16207                 \par\strut\par
16208                 \unskip\unskip\setbox0=\lastbox
16209                 \vspace*{\dimexpr\ht\strutbox-\baselineskip\relax}%
16210             }%
16211         \par\unskip\ifvmode\nointerlineskip\hrule \@height\z@ \@width\hsize\fi}%
16212     \endmdf@lrbox\relax%
16213     \mdf@ignorevbadness%
16214     \setbox\mdf@frametitlebox=\vbox{\unvbox\mdf@frametitlebox}%
16215     \mdfframetitleboxwidth=\wd\mdf@frametitlebox\relax%
16216     \mdfframetitleboxheight=\ht\mdf@frametitlebox\relax%
16217     \mdfframetitleboxdepth=\dp\mdf@frametitlebox\relax%
16218     \mdfframetitleboxtotalheight=\dimexpr
16219         \ht\mdf@frametitlebox
16220         +\dp\mdf@frametitlebox%
16221         +\mdf@frametitleaboveskip@length
16222         +\mdf@frametitlebelowskip@length
16223         \relax%
16224 }
16225
16226 \renewrobustcmd*\mdf@footnoteoutput{%
16227     \ifvoid\@mpfootins\else%
16228         \nobreak%
16229         \vskip\mdf@footnotedistance@length%
16230         \normalcolor%
16231         \bidi@mpfootnoterule%
16232         \unvbox\@mpfootins%
16233     \fi%
16234 }
16235
16236
16237 \renewrobustcmd*\mdf@footnoteinput{%
16238     \def\@mpfn{mpfootnote}%
16239     \def\thempfn{\thempfootnote}%
16240     \c@mpfootnote\z@%
16241     \let\@footnotetext\@mpfootnotetext%
16242     \let\@LTRfootnotetext\@mpLTRfootnotetext%
16243     \let\@RTLfootnotetext\@mpRTLfootnotetext%
16244 }

```

## 111 File bidi-media9.sty

```

16245 \ProvidesExplPackage{bidi-media9}{2022/02/18}{0.4}
16246 {bidi fixes for media9 package for the XeTeX engine}

```



```

16247
16248 \keys_define:nn{media9/mbtn}{
16249   draft .code:n = {},
16250   final .code:n = {},
16251
16252   tooltip .tl_gset_x:N = \g_mix_tooltip_tl,
16253   tooltip .value_required:n = {true},
16254
16255   overface .code:n = {
16256     \sbox\l_mix_poster_box{
16257       \bool_if:NTF\g_pbs_lscape_bool{\rotatebox{90}{#1}}{\if@RTL\beginR\fi#1\if@RTL\endR\fi}
16258       \mix_pdfxform:n{\l_mix_poster_box}
16259       \tl_gset:Nx\g_mix_overbtn_tl{\mix_pdflastxform:}
16260     },
16261     overface .value_required:n = {true},
16262
16263     downface .code:n = {
16264       \sbox\l_mix_poster_box{
16265         \bool_if:NTF\g_pbs_lscape_bool{\rotatebox{90}{#1}}{\if@RTL\beginR\fi#1\if@RTL\endR\fi}
16266         \mix_pdfxform:n{\l_mix_poster_box}
16267         \tl_gset:Nx\g_mix_downbtn_tl{\mix_pdflastxform:}
16268       },
16269       downface .value_required:n = {true},
16270
16271       3Dgotoview .code:n = {
16272         \tl_set:Nx\l_tmpa_tl{#1} %extract ref
16273         \regex_replace_once:nnN{([~:~]+):??.*}{\1}\l_tmpa_tl
16274         \tl_trim_spaces:N\l_tmpa_tl
16275         \tl_if_exist:cTF{ann@\l_tmpa_tl}{
16276           \str_if_eq:eeF{\tl_use:c{ann@\l_tmpa_tl}}{draft}{
16277             \tl_set:Nx\l_tmpb_tl{#1} %extract idx
16278             \regex_replace_once:nnN{[~:~]+:~?}{\1}\l_tmpb_tl
16279             \tl_trim_spaces:N\l_tmpb_tl
16280             \tl_if_blank:VF\l_tmpb_tl{
16281               \regex_match:nVTF{^[DFLNP]$}\l_tmpb_tl{
16282                 \tl_set:Nx\l_mix_vidx_tl{/}\l_tmpb_tl
16283               }{
16284                 \regex_match:nVTF{^~\d+$}\l_tmpb_tl{
16285                   \tl_set:Nx\l_mix_vidx_tl{~}\l_tmpb_tl
16286                 }{
16287                   \regex_replace_once:nnN{^~(\s*)}{\1}\l_tmpb_tl
16288                   \regex_replace_once:nnN{(\s*)$}{\1}\l_tmpb_tl
16289                   \tl_set:Nx\l_mix_vidx_tl{~(\l_tmpb_tl)}
16290                 }
16291               }
16292             }
16293             \mix_pdfobj:nnn{}{dict}{
16294               /S/JavaScript/JS~(
16295                 if(typeof(annotRM)=='undefined'){annotRM=new-Array();}
16296                 if(typeof(annotRM['\l_tmpa_tl'])=='undefined'){
16297                   annotRM['\l_tmpa_tl']=
16298                     this.getAnnotRichMedia(\tl_use:c{page@\l_tmpa_tl},'\l_tmpa_tl');
16299                 }
16300                 annotRM['\l_tmpa_tl'].activated=true;

```



```

16301     )
16302     \tl_if_blank:VF\l_tmpb_tl{
16303       /Next~<<
16304       /S/GoTo3DView
16305       /TA~\tl_use:c{ann@\l_tmpa_tl}
16306       /V\l_mix_vidx_tl
16307     >>
16308   }
16309 }
16310 \tl_gput_right:Nx\g_mix_btnactions_tl{~\mix_pdflastobj:}
16311 }
16312 }{
16313   \msg_warning:nnx{media9}{undefined-reference}{\l_tmpa_tl}
16314   \cs_if_exist:NF\g_mix_refundefwarned_tl{
16315     \tl_new:N\g_mix_refundefwarned_tl
16316     \AtEndDocument{\msg_warning:nn{media9}{undefined-references}}
16317   }
16318 }
16319 },
16320 3Dgotoview .value_required:n = {true},
16321
16322 mediacommand .code:n = {
16323   \tl_set:Nx\l_tmpa_tl{#1}
16324   \regex_replace_once:nnN{([~:~]+):??.*}{\1}\l_tmpa_tl %extract ref
16325   \tl_trim_spaces:N\l_tmpa_tl
16326   \tl_if_exist:cTF{ann@\l_tmpa_tl}{
16327     \str_if_eq:eeF{\tl_use:c{ann@\l_tmpa_tl}}{draft}{
16328       \tl_set:Nx\l_tmpb_tl{#1}
16329       \regex_replace_once:nnN{([~:~]+\~:~){}}{\1}\l_tmpb_tl
16330       \tl_trim_spaces:N\l_tmpb_tl
16331       \regex_replace_all:nnN{~\{|~\}$}{~}\l_tmpb_tl
16332       \tl_set:Nx\l_mix_cmd_tl{
16333         \exp_after:wN\mix_separate_cmd_from_actn:w\l_tmpb_tl[]\q_stop}
16334       \tl_trim_spaces:N\l_mix_cmd_tl
16335       \tl_set:Nx\l_mix_arg_tl{
16336         \exp_after:wN\mix_separate_arg_from_actn:w\l_tmpb_tl[]\q_stop}
16337       \tl_trim_spaces:N\l_mix_arg_tl
16338       \mix_pdfobj:nnn{}{dict}{
16339         /S/JavaScript/JS~(
16340           if(typeof(annotRM)=='undefined'){annotRM=new-Array();}
16341           if(typeof(annotRM['\l_tmpa_tl'])=='undefined'){
16342             annotRM['\l_tmpa_tl']=
16343               this.getAnnotRichMedia(\tl_use:c{page@\l_tmpa_tl},'\l_tmpa_tl');
16344           }
16345           annotRM['\l_tmpa_tl'].activated=true;
16346         )
16347       \tl_if_blank:VF\l_mix_cmd_tl{
16348         /Next~<<
16349         /S/RichMediaExecute
16350         /TA~\tl_use:c{ann@\l_tmpa_tl}
16351         /TI~\tl_use:c{main@\l_tmpa_tl}
16352         /CMD~<<
16353         /C~(\l_mix_cmd_tl)
16354         \tl_if_blank:VF\l_mix_arg_tl{

```



```

16355         /A~[\l_mix_arg_tl]
16356     }
16357     >>
16358     >>
16359     }
16360 }
16361 \tl_gput_right:Nx\g_mix_btnactions_tl{~\mix_pdflastobj:}
16362 }
16363 }{
16364     \msg_warning:nnx{media9}{undefined-reference}{\l_tmpa_tl}
16365     \cs_if_exist:NF\g_mix_refundefwarned_tl{
16366         \tl_new:N\g_mix_refundefwarned_tl
16367         \AtEndDocument{\msg_warning:nn{media9}{undefined-references}}
16368     }
16369 }
16370 },
16371 mediacommand .value_required:n = {true},
16372
16373 jsaction .code:n = {
16374     \tl_set:Nx\l_tmpa_tl{#1}
16375     \regex_match:nVTF{^[^{}:]+:.*$}\l_tmpa_tl{
16376         \regex_replace_once:nnN{([^\:]+):??.*}{\1}\l_tmpa_tl %extract ref
16377         \tl_trim_spaces:N\l_tmpa_tl
16378     }{\tl_clear:N\l_tmpa_tl}
16379     \tl_set:Nx\l_tmpb_tl{#1}
16380     \tl_if_blank:VF\l_tmpa_tl{
16381         \tl_if_exist:cF{ann@\l_tmpa_tl}{
16382             \msg_warning:nnx{media9}{undefined-reference}{\l_tmpa_tl}
16383             \cs_if_exist:NF\g_mix_refundefwarned_tl{
16384                 \tl_new:N\g_mix_refundefwarned_tl
16385                 \AtEndDocument{\msg_warning:nn{media9}{undefined-references}}
16386             }
16387         }
16388         \regex_replace_once:nnN{[^\:]+\:}{\1}\l_tmpb_tl
16389     }
16390     \tl_set:Nx\l_tmpb_tl{\exp_after:wN\use:n\l_tmpb_tl}
16391     \tl_trim_spaces:N\l_tmpb_tl
16392     \tl_if_blank:VF\l_tmpb_tl{
16393         \mix_pdfobj:nnn{}{dict}{
16394             /S/JavaScript/JS~(
16395                 try{\l_tmpb_tl}catch(e){console.show();console.println(e)})}}
16396     \bool_lazy_and:nnT{
16397         \tl_if_exist_p:c{ann@\l_tmpa_tl}
16398     }{
16399         !\str_if_eq_p:ee{\tl_use:c{ann@\l_tmpa_tl}}{draft}
16400     }{
16401         \mix_pdfobj:nnn{}{dict}{
16402             /S/JavaScript/JS~(
16403                 if(typeof(annotRM)=='undefined'){annotRM=new~Array();}
16404                 if(typeof(annotRM['\l_tmpa_tl'])=='undefined'){
16405                     annotRM['\l_tmpa_tl']=
16406                     this.getAnnotRichMedia(\tl_use:c{page@\l_tmpa_tl},'\l_tmpa_tl');
16407                 }
16408                 annotRM['\l_tmpa_tl'].activated=true;

```



```

16409         )
16410         \tl_if_blank:VF\l_tmpb_tl{/Next~\mix_pdflastobj:}
16411     }
16412 }
16413 \bool_if:nT{
16414     \bool_lazy_and_p:nn{
16415         \tl_if_exist_p:c{ann@\l_tmpa_tl}
16416     }{
16417         !\str_if_eq_p:ee{\tl_use:c{ann@\l_tmpa_tl}}{draft}
16418     }
16419     || !\tl_if_blank_p:V\l_tmpb_tl
16420 }{
16421     \tl_gput_right:Nx\g_mix_btnactions_tl{~\mix_pdflastobj:}
16422 }
16423 },
16424 jsaction .value_required:n = {true},
16425
16426 unknown .code:n = {
16427     \msg_error:nnx{media9}{unknown~option}{\l_keys_key_tl}
16428 }
16429 }
16430
16431 \RenewDocumentCommand\includemedia{O{}mm}{%#1 options, #2 text/image #3 media file
16432     \mix_uriend:
16433     \group_begin:
16434     \mix_beginLTR:
16435     \mode_leave_vertical:
16436     %empty stream as appearance dummy
16437     \cs_if_exist:NF\g_mix_appearance_tl{
16438         \hbox_set:Nn\l_mix_poster_box{\phantom{\rule{1pt}{1pt}}}
16439         \mix_pdfxform:n{\l_mix_poster_box}
16440         \tl_gset:Nx\g_mix_appearance_tl{\mix_pdflastxform:}
16441     }
16442     \mix_reset:
16443     \mix_urbegin: %treat URI characters correctly
16444     \keys_set:nn{media9/user}{#1}
16445     \mix_uriend:
16446     \tl_greplace_all:Nnn\g_mix_flashvars_tl{~&}{&}
16447     \tl_greplace_all:Nnn\g_mix_flashvars_tl{&~}{&}
16448     \tl_greplace_all:Nnn\g_mix_flashvars_tl{~={}}{=}
16449     \tl_greplace_all:Nnn\g_mix_flashvars_tl{=~}{=}
16450     \tl_gtrim_spaces:N\g_mix_flashvars_tl
16451
16452     \cs_if_exist:NT\Ginput@path{\cs_set_eq:NN\input@path\Ginput@path}
16453
16454     %\hbox_set:Nn\l_mix_poster_box{\group_begin:#2\group_end:}
16455     %\hbox_set:Nn\l_mix_poster_box{#2}
16456     \sbox\l_mix_poster_box{\if@RTL\beginR\fi#2\if@RTL\endR\fi}
16457     \mix_scale:n{\l_mix_poster_box}
16458     \bool_if:nT{
16459         \dim_compare_p:n{\g_mix_tt_tl=\c_zero_dim}||
16460         \dim_compare_p:n{\g_mix_wd_tl=\c_zero_dim}
16461     }{
16462         \tl_gset:Nn\g_mix_usrpbtn_tl{none}

```



```

16463 }
16464 \bool_if:NTF\g_mix_usrdraft_bool{
16465   \tl_if_empty:NF\g_mix_usrlabel_tl{
16466     \mix_keytoaux_now:nn{ann@}\g_mix_usrlabel_tl}{draft}
16467   }
16468   \tl_if_blank:oTF{#2}{
16469     \mix_uribegin: %treat URI characters correctly
16470     \mix_draftbox:n{\tl_to_str:n{#3}}
16471     \mix_uriend:
16472   }{
16473     \hbox_to_wd:nn{\g_mix_wd_tl}{
16474       \vrule~width~\c_zero_dim~height~\g_mix_ht_tl~depth~\g_mix_dp_tl
16475       \box_use:N\l_mix_poster_box\hss
16476     }
16477   }
16478 }{
16479   \bool_if:nF{\str_if_eq_p:Vn\g_mix_usrpbtn_tl{none}}{
16480     %attach script that switches off play button overlay upon activation
16481     \mix_pdfobj:nnn{}{stream}{
16482       {}{
16483         var~ocgs=host.getOCGs(host.pageNum);
16484         for(var~i=0;i<ocgs.length;i++){
16485           if(ocgs[i].name=='MediaPlayerButton\int_use:N\g_mix_rmcnt_int'){
16486             ocgs[i].state=false;
16487           }
16488         }
16489       }
16490     }
16491     \mix_pdfobj:nnn{}{dict}{
16492       /Type/Filespec/EF~<</F~\mix_pdflastobj:>>/F~(btnoff)%/UF~(btnoff)
16493     }
16494     \tl_gset:Nx\g_mix_assets_tl{(btnoff)~\mix_pdflastobj:}
16495     \tl_set:Nx\l_mix_scripts_tl{~\mix_pdflastobj:~}
16496     %enforce plain playbutton overlay for XeTeX
16497     \sys_if_engine_xetex:T{\tl_gset:Nn\g_mix_usrpbtn_tl{plain}}
16498   }
16499   %embed main asset
16500   \mix_uribegin:
16501   \mix_embedasset:n{#3}
16502   \bool_if:nTF{
16503     \str_if_eq_p:Vn\l_mix_ext_tl{prc}||\str_if_eq_p:Vn\l_mix_ext_tl{u3d}
16504   }{
16505     \bool_gset_true:N\g_mix_iiid_bool
16506     \tl_gset:Nn\g_mix_mainassetsub_tl{3D}
16507   }{
16508     \str_case_e:nnF{\l_mix_base_tl}{
16509       {APlayer}{\tl_gset:Nn\g_mix_mainassetsub_tl{Sound}}
16510       {AudioPlayer}{\tl_gset:Nn\g_mix_mainassetsub_tl{Sound}}
16511       {VPlayer}{\tl_gset:Nn\g_mix_mainassetsub_tl{Video}}
16512       {VideoPlayer}{\tl_gset:Nn\g_mix_mainassetsub_tl{Video}}
16513       {StrobeMediaPlayback}{\tl_gset:Nn\g_mix_mainassetsub_tl{Video}}
16514     }{\tl_gset:Nn\g_mix_mainassetsub_tl{Flash}}
16515   }
16516   \tl_gset:Nx\g_mix_mainasset_tl{~\g_mix_lastasset_tl}

```



```

16517 \mix_uriend:
16518 %secondary assets (added by addressource)
16519 \seq_map_function:NN\g_mix_res_seq\mix_embedasset:n
16520 \seq_map_inline:Nn\g_mix_script_seq{
16521   \mix_embedasset:n{##1}
16522   \tl_put_right:Nx\l_mix_scripts_tl{\g_mix_lastasset_tl}
16523 }
16524 %attach 3D calculation script
16525 \bool_if:nT{\g_mix_iiid_bool && \g_mix_iiidcalc_bool}{
16526   \mix_embedasset:n{3Dmenu.js}
16527   \tl_put_left:Nx\l_mix_scripts_tl{\g_mix_lastasset_tl~}
16528 }
16529 %create 3D views from file (option 3Dviews)
16530 \bool_if:nT{\g_mix_iiid_bool && !(\tl_if_blank_p:V\g_mix_vfile_tl)}{
16531   \tl_set:Nn\l_mix_level_tl{-1}
16532   \int_zero:N\l_mix_viewcnt_int
16533   \int_zero:N\l_mix_lineno_int
16534
16535   \ior_open:Nn\l_mix_vfile_stream{\g_mix_vfile_tl}
16536   \ior_map_inline:Nn\l_mix_vfile_stream{
16537     \int_incr:N\l_mix_lineno_int
16538     \keys_set:nn{media9/views}{##1} %process input line
16539   }
16540   \ior_close:N\l_mix_vfile_stream
16541 }
16542 \bool_if:nT{ %create default 3D view if required
16543   \g_mix_iiid_bool &&
16544   (\g_mix_opt_iiidview_bool || \tl_if_blank_p:V\l_mix_iiidviewarray_tl)
16545 }{
16546   \tl_set_eq:NN\l_mix_bg_tl\g_mix_opt_bg_tl
16547   \tl_set_eq:NN\l_mix_ls_tl\g_mix_opt_ls_tl
16548   \tl_set_eq:NN\l_mix_rm_tl\g_mix_opt_rm_tl
16549   \tl_set_eq:NN\l_mix_psob_tl\g_mix_opt_psob_tl
16550   \tl_set_eq:NN\l_mix_coo_tl\g_mix_opt_coo_tl
16551   \tl_set_eq:NN\l_mix_ctoc_tl\g_mix_opt_ctoc_tl
16552   \tl_set_eq:NN\l_mix_ciiw_tl\g_mix_opt_ciiw_tl
16553
16554   \fp_set_eq:NN\l_mix_roo_fp\g_mix_opt_roo_fp
16555   \fp_set_eq:NN\l_mix_aac_fp\g_mix_opt_aac_fp
16556   \fp_set_eq:NN\l_mix_oscale_fp\g_mix_opt_oscale_fp
16557   \fp_set_eq:NN\l_mix_roll_fp\g_mix_opt_roll_fp
16558
16559   \bool_set_eq:NN\l_mix_ciiw_bool\g_mix_opt_ciiw_bool
16560   \bool_set_eq:NN\l_mix_iiidortho_bool\g_mix_opt_iiidortho_bool
16561   \tl_clear:N\l_mix_naarray_tl
16562
16563   \bool_if:NF\l_mix_ciiw_bool{
16564     \tl_set:Nx\l_mix_args_tl{\l_mix_coo_tl\space\l_mix_ctoc_tl\space}
16565     \exp_after:wN\mix_calc_ciiw:w\l_mix_args_tl\q_stop
16566   }
16567
16568   \tl_clear:N\l_mix_naarray_tl
16569   \tl_clear:N\l_mix_saarray_tl
16570   \tl_set_eq:NN\l_mix_nr_tl\g_mix_nrdflt_tl

```



```

16571      \mix_view:n{Default}
16572      \tl_set:Nx\l_mix_dfltview_tl{\mix_pdflastobj:}
16573
16574    }
16575  }
16576  \mix_pdfobj:nnn{}{dict}{
16577    /Type/RichMediaInstance
16578    /Subtype/\g_mix_mainassetsub_tl
16579    /Asset~\g_mix_mainasset_tl
16580    \bool_if:NF\g_mix_iiid_bool{
16581      /Params~<<
16582        /Binding\str_if_eq:VnTF\g_mix_transp_tl{true}{
16583          /Foreground
16584        }{
16585          /Background
16586        }
16587        \tl_if_blank:VF\g_mix_flashvars_tl{
16588          /FlashVars~(\g_mix_flashvars_tl)
16589        }
16590      >>
16591    }
16592  }
16593  \tl_if_empty:NF\g_mix_usrlabel_tl{
16594    \mix_keytoaux_now:nn{main@\g_mix_usrlabel_tl}{\mix_pdflastobj:}
16595  }
16596  \mix_pdfobj:nnn{}{dict}{
16597    /Type/RichMediaConfiguration
16598    /Subtype/\g_mix_mainassetsub_tl
16599    /Instances~[\mix_pdflastobj:]
16600  }
16601  \mix_pdfobj:nnn{}{dict}{
16602    /Type/RichMediaContent
16603    /Assets~<</Names~[\g_mix_assets_tl]>>
16604    /Configurations~[\mix_pdflastobj:]
16605    \bool_if:nT{
16606      \g_mix_iiid_bool && !(\tl_if_empty_p:V\l_mix_iiidviewarray_tl)
16607    }{
16608      /Views~[\l_mix_iiidviewarray_tl]
16609    }
16610  }
16611  \tl_set:Nx\l_mix_content_tl{\mix_pdflastobj:}
16612  \bool_if:nT{
16613    \g_mix_iiid_bool && \str_if_eq_p:Vn\g_mix_playtpe_tl{Oscillating}
16614  }{
16615    \tl_gset:Nx\g_mix_playcnt_tl{\int_eval:n{\g_mix_playcnt_tl*2}}
16616  }
16617  %determine floating window size
16618  \bool_if:NT\g_mix_opt_windowed_bool{
16619    \exp_after:wN\mix_parse_winsizearg:w\g_mix_winsize_tl\q_stop
16620  }
16621  \mix_pdfobj:nnn{}{dict}{
16622    /Activation~<<
16623    /Condition\g_mix_act_tl
16624    \bool_if:nT{

```



```

16625         \g_mix_iiid_bool &&
16626         !(\str_if_eq_p:Vn\g_mix_playtpe_tl{None})
16627     }{%seems to work only with 3D content
16628         /Animation~<<
16629         /Subtype~\g_mix_playtpe_tl
16630         /PlayCount~\g_mix_playcnt_tl
16631         /Speed~\g_mix_playspd_tl
16632     >>
16633 }
16634 \bool_if:nT{
16635     \g_mix_iiid_bool && (
16636         \g_mix_opt_iiidview_bool || \tl_if_blank_p:V\l_mix_iiidviewarray_tl
16637     )
16638 }{/View~\l_mix_dfltview_tl}
16639 /Presentation~<<
16640     /Transparent~\g_mix_transp_tl
16641     \bool_if:NTF\g_mix_opt_windowed_bool{
16642         /Style/Windowed
16643         /Window~<<
16644             /Width~<</Default~\tl_mix_fltd>>
16645             /Height~<</Default~\tl_mix_fltht>>
16646             /Position~<<
16647                 /HOffset~0/VOffset~0
16648                 \str_case_e:nnF{\g_mix_winpos_tl}{
16649                     {tl}{/VAlign/Near/HAlign/Near}
16650                     {cl}{/VAlign/Center/HAlign/Near}
16651                     {bl}{/VAlign/Far/HAlign/Near}
16652                     {bc}{/VAlign/Far/HAlign/Center}
16653                     {br}{/VAlign/Far/HAlign/Far}
16654                     {cr}{/VAlign/Center/HAlign/Far}
16655                     {tr}{/VAlign/Near/HAlign/Far}
16656                     {tc}{/VAlign/Near/HAlign/Center}
16657                 }{/HAlign/Center/VAlign/Center}
16658             >>
16659         >>
16660     }{
16661         /Style/Embedded
16662     }
16663     \bool_if:NTF\g_mix_iiid_bool{
16664         /Toolbar~\g_mix_tools_tl
16665         /NavigationPane~\g_mix_nav_tl
16666     }{
16667         /PassContextClick~\g_mix_contextclick_tl
16668     }
16669     >>
16670     \tl_if_blank:VF\l_mix_scripts_tl{/Scripts~[\l_mix_scripts_tl]}
16671     >>
16672     /Deactivation~<</Condition\g_mix_deact_tl>>
16673 }
16674 \tl_set:Nx\l_mix_settings_tl{\mix_pdflastobj:}
16675 \tl_if_empty:NF\g_mix_usrlabel_tl{
16676     \tl_gset_eq:NN\g_mix_label_tl\g_mix_usrlabel_tl
16677 }
16678 % #1:width, #2:height, #3:depth, #4:content (key-value)

```



```

16679 \mix_pdfannot:nnnn{\g_mix_wd_tl}{\g_mix_ht_tl}{\g_mix_dp_tl}{
16680 /Subtype/RichMedia
16681 /F~4
16682 /BS~<</W~0/S/S>>
16683 /Contents~(media~embedded~by~media9~[\g_mix_version_tl~(\g_mix_date_tl)])
16684 /NM~(\g_mix_label_tl)
16685 /AP~<</N~\g_mix_appearance_tl>>
16686 /RichMediaSettings~\l_mix_settings_tl
16687 /RichMediaContent~\l_mix_content_tl
16688 }
16689 \tl_if_empty:NF\g_mix_usrlabel_tl{
16690 \mix_keytoaux_now:nn{ann@\g_mix_usrlabel_tl}{\mix_pdflastann:}
16691 \mix_keytoaux_shipout:nn{page@\g_mix_usrlabel_tl}{
16692 \noexpand\the\g@mix@page@int}
16693 }
16694 \mix_pdfobj:nnn{}{dict}{
16695 /S/JavaScript/JS~(
16696 try{
16697 if(typeof(annotRM)=='undefined'){annotRM=new~Array();}
16698 if(typeof(annotRM['\g_mix_label_tl'])=='undefined'){
16699 annotRM['\g_mix_label_tl']=
16700 this.getAnnotRichMedia(this.pageNum,'\g_mix_label_tl');
16701 }
16702 \str_if_eq:eeF{\g_mix_usrpbtn_tl}{none}{
16703 if(typeof(ocgBtn\int_use:N\g_mix_rmcnt_int)=='undefined'){
16704 var~ocgs=this.getOCGs(this.pageNum);
16705 for(var~i=0;i<ocgs.length;i++){
16706 if(ocgs[i].name=='MediaPlayerButton\int_use:N\g_mix_rmcnt_int'){
16707 var~ocgBtn\int_use:N\g_mix_rmcnt_int=ocgs[i];
16708 }
16709 }
16710 }
16711 if(
16712 !annotRM['\g_mix_label_tl'].activated&&(
16713 app.viewerType=='Reader' ||
16714 app.viewerType=='Exchange' ||
16715 app.viewerType=='Exchange-Pro'
16716 )&&app.viewerVersion>=9
16717 ){
16718 ocgBtn\int_use:N\g_mix_rmcnt_int.state=true;
16719 }
16720 }
16721 }catch(e){}
16722 this.dirty=false;
16723 )
16724 }
16725 \mix_pdfannot:nnnn{Opt}{Opt}{Opt}{
16726 /Subtype/Widget
16727 /FT/Btn/Ff~65537/F~2
16728 /BS~<</W~0>>
16729 /T~(fd@\g_mix_label_tl)
16730 /AA~<</PO~\mix_pdflastobj:~/PV~\mix_pdflastobj:>>
16731 }
16732 \mix_appendtofields:n{\mix_pdflastann:}

```



```

16733 \hbox_overlap_right:n{\box_use:N\l_mix_poster_box}
16734 \str_if_eq:eeTF{\g_mix_usrpbtn_tl}{none}{
16735 \hbox_to_wd:nn{\g_mix_wd_tl}{
16736 \vrule~width~\c_zero_dim~height~\g_mix_ht_tl~depth~\g_mix_dp_tl\hss
16737 }
16738 }{%insert play button overlay
16739 \mix_insert_btnocg: %create OCG
16740 \cs_gset_eq:Nc\mix_pbtn:NN{g@mix@pbtn@\g_mix_usrpbtn_tl @tl}
16741 \group_begin:
16742 \cs_if_exist:NT\textdir{\textdir TLT}
16743 \sbox\l_mix_pbtn_box{\mix_pbtn:NN\g_mix_wd_tl\g_mix_tt_tl}
16744 \box_move_down:nn{\g_mix_dp_tl}{
16745 \hbox_to_wd:nn{\g_mix_wd_tl}{
16746 \vbox_to_ht:nn{\g_mix_tt_tl}{
16747 \vss
16748 \ocgbase_oc_bdc:n{\g_mix_btnocg_tl}
16749 \box_use:N\l_mix_pbtn_box
16750 \ocgbase_oc_emc:
16751 }
16752 }
16753 }
16754 \group_end:
16755 }
16756 \int_gincr:N\g_mix_rmcnt_int
16757 }
16758 \mix_endLTR:
16759 \group_end:
16760 }
16761 \tl_set_eq:NN\l_mix_includemedia_tl\includemedia
16762 \tl_set:Nn\includemedia{\mix_uribegin:\l_mix_includemedia_tl}
16763
16764 \RenewDocumentCommand\mediabutton{0{}m}{%#1 options, #2 normal button text
16765 \mix_uribegin:
16766 \group_begin:
16767 \mix_beginLTR:
16768 \mode_leave_vertical:
16769 %reset various variables
16770 \tl_gclear:N\g_mix_overbtn_tl
16771 \tl_gclear:N\g_mix_downbtn_tl
16772 \tl_gclear:N\g_mix_btnactions_tl
16773 \tl_gclear:N\g_mix_tooltip_tl
16774 %process options
16775 \bool_gset_eq:NN\g_mix_btndraft_bool\g_mix_pkgdraft_bool
16776 \mix_uribegin: %treat URI characters correctly
16777 \keys_set:nn{media9/mbtndraft}{#1} %detect draft/final on first pass
16778 \bool_if:NF\g_mix_btndraft_bool{\keys_set:nn{media9/mbtn}{#1}}
16779 \mix_uribegin:
16780 %normal button appearance
16781 %\hbox_set:Nn\l_mix_poster_box{#2}
16782 \sbox\l_mix_poster_box{\if@RTL\beginR\fi#2\if@RTL\endR\fi}
16783 \tl_set:Nx\width {\dim_use:N\box_wd:N\l_mix_poster_box}
16784 \tl_set:Nx\height{\dim_use:N\box_ht:N\l_mix_poster_box}
16785 \tl_set:Nx\depth {\dim_use:N\box_dp:N\l_mix_poster_box}
16786 \bool_if:NTF\g_mix_btndraft_bool{\box_use:N\l_mix_poster_box}{

```



```

16787 \sbox\l_mix_poster_box{\bool_if:NTF\g_pbs_lscape_bool{\rotatebox{90}{
16788 \box_use:N\l_mix_poster_box}}{\box_use:N\l_mix_poster_box}}
16789 \mix_pdfxform:n{\l_mix_poster_box}
16790 \tl_set:Nx\g_mix_normalbtn_tl{\mix_pdflastxform:}
16791 %insert widget annotation
16792 \mix_pdfannot:nnnn{\width}{\height}{\depth}{
16793 /Subtype/Widget
16794 /T~(mbtn@\int_use:N\g_mix_mbtncnt_int)
16795 \tl_if_empty:NF\g_mix_tooltip_tl{/TU~(\g_mix_tooltip_tl)}
16796 /FT/Btn/Ff~65536
16797 \tl_if_empty:NTF\g_mix_downbtn_tl{/H/I}{/H/P}
16798 /AP~<<
16799 /N~\g_mix_normalbtn_tl
16800 \tl_if_empty:NF\g_mix_overbtn_tl{/R~\g_mix_overbtn_tl}
16801 \tl_if_empty:NF\g_mix_downbtn_tl{/D~\g_mix_downbtn_tl}
16802 >>
16803 /MK~<<
16804 /TP~1~/IF~<</S/A/FB~true/A~[0.0~0.0]>>
16805 /I~\g_mix_normalbtn_tl
16806 \tl_if_empty:NF\g_mix_overbtn_tl{/RI~\g_mix_overbtn_tl}
16807 \tl_if_empty:NF\g_mix_downbtn_tl{/IX~\g_mix_downbtn_tl}
16808 >>
16809 /A~<<
16810 /S/JavaScript/JS~(app.focusRect=false;)
16811 %sequence of actions to perform
16812 \tl_if_empty:NF\g_mix_btnactions_tl{/Next~[\g_mix_btnactions_tl]}
16813 >>
16814 }
16815 \mix_appendtofields:n{\mix_pdflastann:}
16816 \hbox_to_wd:nn{\width}{
16817 \vrule~width~\c_zero_dim~height~\height~depth~\depth\hss
16818 }
16819 \int_gincr:N\g_mix_mbtncnt_int
16820 }
16821 \mix_endLTR:
16822 \group_end:
16823 }
16824 \tl_set_eq:NN\l_mix_mediabutton_tl\mediabutton
16825 \tl_set:Nn\mediabutton{\mix_uribegin:\l_mix_mediabutton_tl}
16826

```

## 112 File memoir-xetex-bidi.def

```

16827 \ProvidesFile{memoir-xetex-bidi.def}[2017/06/09 v0.6 bidi adaptations for memoir class for X
16828 \renewcommand{\keepthetitle}{%
16829 \@bsmtitleempty
16830 \global\let\thanks\relax
16831 \global\let\LTRthanks\relax
16832 \global\let\RTLthanks\relax
16833 \global\let\and\relax
16834 \global\let\andnext\relax
16835 \global\let\@thanks\@empty
16836 \global\let\@title\@empty
16837 \global\let\@author\@empty

```



```

16838 \global\let\@date\@empty}
16839 \renewcommand{\maketitle}{\par
16840 \beginingroup
16841 \@bsmarkseries
16842 \def\@makefnmark{\@textsuperscript{%
16843 \normalfont\@bsthanksheadpre \tmark \@bsthanksheadpost}}}%
16844 \long\def\@makefntext##1{\makethanksmark ##1}
16845 \if@twocolumn
16846 \ifnum \col@number=\@one
16847 \@maketitle
16848 \else
16849 \twocolumn[\@maketitle]%
16850 \fi
16851 \else
16852 \ifdim\pagetotal>\z@
16853 \newpage
16854 \fi
16855 \global\@topnum\z@
16856 \@maketitle
16857 \fi
16858 \thispagestyle{title}\@thanks
16859 \endgroup
16860 \@bscontmark % \setcounter{footnote}{0}%
16861 }
16862 \renewcommand*{\memRTLleftskip}{\if@RTL\rightskip\else\leftskip\fi}
16863 \renewcommand*{\memRTLrightskip}{\if@RTL\leftskip\else\rightskip\fi}
16864 \renewcommand*{\memRTLvleftskip}{\if@RTL\vrightskip\else\vleftskip\fi}
16865 \renewcommand*{\memRTLvrightskip}{\if@RTL\vleftskip\else\vrightskip\fi}
16866 \renewcommand*{\memRTLraggedright}{\if@RTL\raggedleft\else\raggedright\fi}
16867 \renewcommand*{\memRTLraggedleft}{\if@RTL\raggedright\else\raggedleft\fi}
16868 \renewcommand*{\thesection}{\thechapter\@SepMark\@arabic\c@section}
16869 \renewcommand*{\thesubsection}{%
16870 \thesection\@SepMark\@arabic\c@subsection}
16871 \renewcommand*{\thesubsubsection}{%
16872 \thesubsection\@SepMark\@arabic\c@subsubsection}
16873 \renewcommand*{\theparagraph}{%
16874 \thesubsubsection\@SepMark\@arabic\c@paragraph}
16875 \renewcommand*{\thesubparagraph}{%
16876 \theparagraph\@SepMark\@arabic\c@subparagraph}
16877 \renewcommand{\setthesection}{\thechapter\@SepMark\Alph{section}}
16878 \renewcommand{\theequation}{%
16879 \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@equation}
16880 \renewcommand{\thefigure}{\thechapter\@SepMark\@arabic\c@figure}
16881 \renewcommand{\thetable}{\thechapter\@SepMark\@arabic\c@table}
16882 \ifartopt
16883 \chapterstyle{article}
16884 \counterwithout{figure}{chapter}
16885 \counterwithout{table}{chapter}
16886 \counterwithout{footnote}{chapter}
16887 \counterwithout{equation}{chapter}
16888 \renewcommand{\chaptername}{\@arabic\c@chapter}
16889 \renewcommand{\maketitlehookb}{%
16890 \vskip -1.5\topsep\vskip -1.5\partopsep}
16891 \renewcommand{\maketitlehookc}{%

```



```

16892 \vskip -1.5\topsep\vskip -1.5\partopsep}
16893 \fi
16894 \long\def\@makecaption#1#2{\let\@memtempa\relax
16895 \ifdim\prevdepth>-99\p@ \vskip\abovecaptionskip
16896 \else \def\@memtempa{\vbox to\topskip{}}\fi
16897 \let\@contfnote\footnote \renewcommand{\footnote}[2] [] {}
16898 \let\@contfmark\footnotemark \renewcommand{\footnotemark}[1] [] {}
16899 \sbox\@tempboxa{\@contnfont #1\@contdelim \@conttfont #2\@contfinal}
16900 \let\footnote\@contfnote
16901 \let\footnotemark\@contfmark
16902 \ifdim\wd\@tempboxa<\linewidth \centering \fi
16903 \if@contcw
16904 \centering
16905 \parbox{\@contcwidth}{%
16906 \ifdim\wd\@tempboxa<\@contcwidth \centering \fi
16907 \fi
16908 \ifdim\wd\@tempboxa<\linewidth
16909 \@contpre
16910 {\@contnfont #1\@contdelim}\@memtempa
16911 {\@contcshortstyle \@conttfont #2\@contfinal\par}
16912 \else
16913 \if@conthang
16914 \sbox\@tempboxa{\@contnfont #1\@contdelim}
16915 \@contpre%
16916 {\@contcstyle\hangindent=\wd\@tempboxa
16917 \noindent\box\@tempboxa\@memtempa \@conttfont #2\@contfinal\par}
16918 \else
16919 \if@contindent
16920 \@contpre%
16921 {\@contnfont #1\@contdelim}\@memtempa
16922 {\@contcstyle\hangindent=\@contindw
16923 \hangafter=\@one\@conttfont #2\@contfinal\par}% <- v1.4
16924 \else
16925 \@contpre%
16926 {\@contnfont #1\@contdelim}\@memtempa
16927 {\@contcstyle \@conttfont #2\@contfinal\par}
16928 \fi
16929 \fi
16930 \fi
16931 \@contpost
16932 \if@contcw
16933 \par
16934 } % end of the \parbox
16935 \fi
16936 \vskip\belowcaptionskip}
16937 \ifpackageloaded{caption}{%
16938 \AtBeginPackage{caption}{
16939 \ClassWarningNoLine{memoir}{%
16940 You are using the caption package with the memoir \MessageBreak
16941 class. This may cause unexpected or inconsistent \MessageBreak
16942 results if you use any of memoir's captioning facilities}
16943 }
16944 \long\def\@makecaption##1##2{%
16945 \vskip\abovecaptionskip

```



```

16946 \sbox\@tempboxa{\if@RTL\beginR\fi##1: ##2\if@RTL\endR\fi}%
16947 \ifdim \wd\@tempboxa >\hsize
16948 \if@RTL\beginR\fi##1: ##2\if@RTL\endR\fi\par
16949 \else
16950 \global \@minipagefalse
16951 \hb@xt@\hsize{\hfil\box\@tempboxa\hfil}%
16952 \fi
16953 \vskip\belowcaptionskip}
16954
16955 \def\caption{%
16956 \ifx\@captive\@undefined
16957 \latexerror{\noexpand\caption outside float}\@ehd
16958 \expandafter\@gobble
16959 \else
16960 \refstepcounter\@captive
16961 \expandafter\@firstofone
16962 \fi
16963 {\@dblarg{\@caption\@captive}}%
16964 }
16965
16966 \long\def\@caption##1[##2]##3{%
16967 \par
16968 \addcontentsline{\csname ext@##1\endcsname}{##1}%
16969 {\protect\numberline{\csname the##1\endcsname}{\ignorespaces ##2}}%
16970 \begingroup
16971 \parboxrestore
16972 \if@minipage
16973 \setminipage
16974 \fi
16975 \normalsize
16976 \@makecaption{\csname fnum@##1\endcsname}{\ignorespaces ##3}\par
16977 \endgroup}
16978 }{}
16979 \renewenvironment{thebibliography}[1]{%
16980 \bibsection
16981 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
16982 \bidi@thebibliography@font@hook%
16983 \begin{bibitemlist}{#1}}{\end{bibitemlist}}\postbibhook}

```

## 113 File midfloat-xetex-bidi.def

```

16984 \ProvidesFile{midfloat-xetex-bidi.def}[2017/05/06 v0.4 bidi adaptations for midfloat package]
16985 \def\RTL@outputdblcol{%
16986 \if@firstcolumn
16987 \global \@firstcolumnfalse
16988 \global\setbox\@leftcolumn\copy\@outputbox
16989 \splitmaxdepth\maxdimen
16990 \vbadness\maxdimen
16991 \setbox\@outputbox\vbox{\unvbox\@outputbox\unskip}%
16992 \setbox\@outputbox\vsplit\@outputbox to\maxdimen
16993 \toks@\expandafter{\topmark}%
16994 \xdef\@firstcoltopmark{\the\toks@}%
16995 \toks@\expandafter{\splitfirstmark}%
16996 \xdef\@firstcolfirstmark{\the\toks@}%

```



```

16997 \ifx\@firstcolfirstmark\@empty
16998 \global\let\@setmarks\relax
16999 \else
17000 \gdef\@setmarks{%
17001 \let\firstmark\@firstcolfirstmark
17002 \let\topmark\@firstcoltopmark}%
17003 \fi
17004 \global\c@colht\@colht\global\c@addvipersep\z@
17005 \ifnum\jua@sk>0
17006 \remove@strip\jua@sar
17007 \global\@colht\the\jua@pr
17008 \ifdim\right@cor>\z@
17009 \global\advance\@colht by\right@cor
17010 \fi
17011 \global\advance\@colht by\cor@height
17012 \global\cor@height=0pt
17013 \fi
17014 \global\setbox\@rightcolumn \vbox{%
17015 \else
17016 \ifdim\c@colht>\@colht
17017 \@tempdima\@colht
17018 \ifdim\@colht>\z@
17019 \global\setbox\@rightcolumn \vbox{%
17020 \unvbox\@rightcolumn
17021 \vbox to\@tempdima{%
17022 \vskip\c@addvipersep\unvbox\@outputbox}%
17023 \vskip\stripsep
17024 \vrule height\the\jua@ht width 0pt depth 0pt
17025 \vskip\stripsep
17026 }%
17027 \global\c@addvipersep\m@addvipersep
17028 \else
17029 \global\setbox\@rightcolumn \vbox{%
17030 \unvbox\@rightcolumn
17031 \vrule height\the\jua@ht width 0pt depth 0pt
17032 \vskip\stripsep
17033 }%
17034 \fi
17035 \ifnum\jua@sk>0
17036 \remove@strip\jua@sar
17037 \global\@colht\the\jua@pr
17038 \global\advance\@colht by -\ht\@rightcolumn
17039 \global\advance\@colht by\cor@height
17040 \global\cor@height=0pt
17041 \else
17042 \global\advance\c@colht by-\ht\@rightcolumn
17043 \global\@colht\c@colht
17044 \fi
17045 \else
17046 \global\@firstcolumntrue
17047 \global\setbox\@outputbox\vbox to\ht\@leftcolumn{%
17048 \unvbox\@rightcolumn
17049 \vskip\c@addvipersep
17050 \unvbox\@outputbox

```



```

17051 }%
17052 \setbox\@outputbox \vbox {%
17053     \hb@xt@\textwidth {%
17054         \hskip \columnwidth
17055         \hfil
17056         \vrule \@width\columnseprule
17057         \hfil
17058         \hb@xt@\columnwidth {%
17059             \bidi@firstcolumn@status@write%
17060             \box\@leftcolumn \hss}%
17061         \hskip-\textwidth
17062         \hb@xt@\columnwidth {%
17063             \bidi@lastcolumn@status@write%
17064             \box\@outputbox \hss}%
17065         \hskip\columnwidth
17066         \hskip\columnsep}%
17067     }%
17068 \@@combinedblfloats
17069 \@@setmarks
17070 \@@outputpage
17071 \begin@group
17072     \@@dblfloatplacement
17073     \@@startdblcolumn
17074     \@@whilesw@if@fcolmade \fi
17075     {\@@outputpage
17076       \@@startdblcolumn}%
17077 \end@group
17078 \global\jua@sk=0\global\jua@sar={}
17079 \global\cor@height\z@\global\c@addvipersep\z@
17080 \fi
17081 \fi
17082 }
17083
17084
17085 \def\LTR@outputdblcol{%
17086     \if@firstcolumn
17087         \global \@@firstcolumnfalse
17088         \global\setbox\@leftcolumn\copy\@outputbox
17089         \splitmaxdepth\maxdimen
17090         \vbadness\maxdimen
17091         \setbox\@outputbox\vbox{\unvbox\@outputbox\unskip}%
17092         \setbox\@outputbox\vsplit\@outputbox to\maxdimen
17093         \toks@\expandafter{\topmark}%
17094         \xdef\@firstcoltopmark{\the\toks@}%
17095         \toks@\expandafter{\splitfirstmark}%
17096         \xdef\@firstcolfirstmark{\the\toks@}%
17097         \ifx\@firstcolfirstmark\@empty
17098             \global\let\@@setmarks\relax
17099         \else
17100             \gdef\@@setmarks{%
17101                 \let\firstmark\@firstcolfirstmark
17102                 \let\topmark\@firstcoltopmark}%
17103         \fi
17104         \global\c@colht\@colht\global\c@addvipersep\z@

```



```

17105 \ifnum\jua@sk>0
17106 \remove@strip\jua@sar
17107 \global\@colht\the\jua@pr
17108 \ifdim\right@cor>\z@
17109 \global\advance\@colht by\right@cor
17110 \fi
17111 \global\advance\@colht by\cor@height
17112 \global\cor@height=0pt
17113 \fi
17114 \global\setbox\@rightcolumn\vbox{%
17115 \else
17116 \ifdim\c@colht>\@colht
17117 \@tempdima\@colht
17118 \ifdim\@colht>\z@
17119 \global\setbox\@rightcolumn\vbox{%
17120 \unvbox\@rightcolumn
17121 \vbox to\@tempdima{%
17122 \vskip\c@addvipersep\unvbox\@outputbox}%
17123 \vskip\stripsep
17124 \vrule height\the\jua@ht width 0pt depth 0pt
17125 \vskip\stripsep
17126 }%
17127 \global\c@addvipersep\m@addvipersep
17128 \else
17129 \global\setbox\@rightcolumn\vbox{%
17130 \unvbox\@rightcolumn
17131 \vrule height\the\jua@ht width 0pt depth 0pt
17132 \vskip\stripsep
17133 }%
17134 \fi
17135 \ifnum\jua@sk>0
17136 \remove@strip\jua@sar
17137 \global\@colht\the\jua@pr
17138 \global\advance\@colht by-\ht\@rightcolumn
17139 \global\advance\@colht by\cor@height
17140 \global\cor@height=0pt
17141 \else
17142 \global\advance\c@colht by-\ht\@rightcolumn
17143 \global\@colht\c@colht
17144 \fi
17145 \else
17146 \global\@firstcolumntrue
17147 \global\setbox\@outputbox\vbox to\ht\@leftcolumn{%
17148 \unvbox\@rightcolumn
17149 \vskip\c@addvipersep
17150 \unvbox\@outputbox
17151 }%
17152 \setbox\@outputbox\vbox{%
17153 \hb@xt@\textwidth{%
17154 \hb@xt@\columnwidth{%
17155 \bidi@firstcolumn@status@write%
17156 \box\@leftcolumn\hss}%
17157 \hfil
17158 \vrule\@width\columnseprule

```



```

17159             \hfil
17160             \hb@xt@\columnwidth {%
17161                 \bidi@lastcolumn@status@write%
17162                 \box\@outputbox \hss}%
17163                 }%
17164             }%
17165     \@combinedblfloats
17166     \@setmarks
17167     \@outputpage
17168     \begingroup
17169         \@dblfloatplacement
17170         \@startdblcolumn
17171         \@whilesw@if@fcolmade \fi
17172         {\@outputpage
17173          \@startdblcolumn}%
17174     \endgroup
17175     \global\jua@sk=0\global\jua@sar={}%
17176     \global\cor@height\z@\global\c@addvipersep\z@
17177     \fi
17178 \fi
17179 }
17180
17181
17182 \def\@strip[#1/#2]{\global\@tempdima=#1\global\@tempdimb=#2%
17183   \global \setbox\@viper\vbox\bgroup@if@RTLmain\moveleft\dimexpr(\columnwidth+\columnsep)\fi
17184     \hsize\textwidth
17185     \@parboxrestore
17186     \col@number \@ne
17187     \vrule height\topskip width0pt depth0pt
17188 }
17189
17190 \def\endstrip{%
17191     \egroup\egroup
17192     \if@firstcolumn
17193         \ifdim\pagetotal>\z@
17194             \vskip\stripsep
17195             \global\ht@strip\pagegoal
17196             \global\advance\ht@strip by-\pagetotal
17197             \global\advance\ht@strip by-\stripsep
17198             \global\advance\ht@strip by-\ht\@viper
17199             \global\advance\ht@strip by-\stripsep
17200             \global\jua@ht=\ht\@viper
17201         \else
17202             \global\ht@strip\z@
17203         \fi
17204         \ifdim\ht@strip>\z@
17205             \unvbox\@viper
17206             \vskip\stripsep
17207             \add@strip{\the\pagetotal}{\the\jua@ht}{\the\@tempdima}{\the\@tempdimb}%
17208             \global\advance\jua@sk by1
17209         \else
17210             \@latex@error{Strip needs more place!}\@ehc
17211             \if@vihproof
17212                 \framebox[\columnwidth]{??? Strip ???}%

```



```

17213         \fi
17214     \fi
17215     \else
17216         \@latex@error{Strip is used only on left column!}\@ehc
17217         \if@vihproof
17218             \framebox[\columnwidth]{??? Strip ???}%
17219         \fi
17220     \fi
17221 }

```

## 114 File minitoc-xetex-bidi.def

```

17222 \ProvidesFile{minitoc-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for minitoc package f
17223 \def\@undottedtocline#1#2#3#4#5{%
17224     \ifnum #1>\c@tocdepth\relax \else
17225         \vskip \z@ plus.2\p@
17226         {\if@RTL\righskip\else\leftskip\fi #2\relax \if@RTL\leftskip\else\righskip\fi \@tocrmarg
17227         \parindent #2\relax\@afterindenttrue
17228         \interlinepenalty\@M
17229         \leavevmode
17230         \@tempdima #3\relax \advance\if@RTL\righskip\else\leftskip\fi \@tempdima \hbox{}%
17231         \hskip -\if@RTL\righskip\else\leftskip\fi
17232         #4\nobreak\hfill \nobreak
17233         \null\par}%
17234     \fi}
17235 \def\@Undottedtocline#1#2#3#4#5{%
17236     \ifnum #1>\c@tocdepth\relax \else
17237         \vskip \z@ \@plus.2\p@
17238         {\if@RTL\righskip\else\leftskip\fi #2\relax \if@RTL\leftskip\else\righskip\fi \@tocrma
17239         \parindent #2\relax\@afterindenttrue
17240         \interlinepenalty\@M
17241         \leavevmode
17242         \@tempdima #3\relax
17243         \advance\if@RTL\righskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\righ
17244         {\coffee@font #4}\nobreak \nobreak\null
17245         \par}%
17246     \fi}
17247 \def\@Undottedtoclinep#1#2#3#4#5{%
17248     \ifnum #1>\c@tocdepth\relax \else
17249         \vskip \z@ \@plus.2\p@
17250         {\if@RTL\righskip\else\leftskip\fi #2\relax \if@RTL\leftskip\else\righskip\fi \@tocrma
17251         \parindent #2\relax\@afterindenttrue
17252         \interlinepenalty\@M
17253         \leavevmode
17254         \@tempdima #3\relax
17255         \advance\if@RTL\righskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\righ
17256         {\#4}\nobreak \hfill \nobreak\null
17257         \hb@xt@\@pnumwidth{\hfil\normalfont \normalcolor #5}}%
17258         \par}%
17259     \fi}

```

## 115 File multicol-xetex-bidi.def

```

17260 \ProvidesFile{multicol-xetex-bidi.def}[2022/02/01 v1.3 bidi adaptations for multicol package

```



```

17261 \def\page@sofar{%
17262   \process@cols\mult@rightbox
17263   {\ifvoid\count@
17264     \setbox\count@\hbox to\hsize}%
17265   \else
17266     \wd\count@\hsize
17267   \fi}%
17268 \count@\col@number \advance\count@\m@ne
17269 \mult@info\z@
17270 {Column spec: \the\full@width\space = indent
17271               + columns + sep =\MessageBreak
17272   \the\multicol@leftmargin\space
17273   + \the\col@number\space
17274   x \the\hsize\space
17275   + \the\count@\space
17276   x \the\columnsep
17277   }%
17278 \ifvmode\else\errmessage{Multicol Error}\fi
17279 \nointerlineskip
17280 \setbox\z@\hbox{p}\global\dimen\tw@\dp\z@
17281 \moveright\multicol@leftmargin
17282 \hbox to\full@width{%
17283   \bidi@multicol@align@columns
17284   \rlap{\phantom p}%
17285   }%
17286 \prevdepth\z@
17287 \kern-\dimen\tw@
17288 \ifdim\dimen\tw@ > \mc@gridwarn
17289   \PackageWarning{multicol}%
17290     {Very deep columns!\MessageBreak
17291     Grid alignment might be broken}%
17292 \fi
17293 }
17294 \def\LTR@column@boxes{%
17295   \process@cols\mult@firstbox{%
17296     \ifdim\dp\count@>\dimen\tw@
17297       \global\dimen\tw@\dp\count@ \fi
17298     \mc@col@status@write
17299     \box\count@
17300     \hss{\columnseprulecolor\vrule
17301           \@width\columnseprule}\hss}%
17302   \ifdim\dp\mult@rightbox>\dimen\tw@
17303     \global\dimen\tw@\dp\mult@rightbox \fi
17304   \mc@lastcol@status@write
17305   \box\mult@rightbox
17306 }
17307
17308 \def\RTL@column@boxes{%
17309   \process@cols\mult@firstbox{%
17310     \hskip\hsize
17311     \hss{\columnseprulecolor\vrule
17312           \@width\columnseprule}\hss
17313   }%
17314   \hskip\hsize

```



```

17315 \process@cols\mult@firstbox{%
17316 \ifdim\dp\count@>\dimen\tw@
17317 \global\dimen\tw@\dp\count@ \fi
17318 \hskip-\hspace
17319 \mc@col@status@write
17320 \box\count@
17321 \hskip-\hspace
17322 \hskip-\columnsep
17323 }%
17324 \ifdim\dp\mult@rightbox>\dimen\tw@
17325 \global\dimen\tw@\dp\mult@rightbox \fi
17326 \hskip-\hspace
17327 \mc@lastcol@status@write
17328 \box\mult@rightbox
17329 \hskip-\hspace
17330 \hskip\full@width
17331 }
17332
17333 \newcommand\RTLmulticolcolumns
17334 {\let\bidimulticol@align@columns
17335 \RTL@column@boxes}
17336 \newcommand\LTRmulticolcolumns
17337 {\let\bidimulticol@align@columns
17338 \LTR@column@boxes}
17339 \newcommand\bidimulticol@align@columns
17340 {\if@RTLmain\RTL@column@boxes\else\LTR@column@boxes\fi}
17341 \bidimulticol@AtEndPreamble{%
17342 \if@bidimulticol@csdef{footinsv@l}{%
17343 \def\footnoterule{\kern-3\p@
17344 \hrule \@width \textwidth \kern 2.6\p@}%
17345 }-}%
17346 }
17347 \def\multicols#1{\col@number#1\relax
17348 \ifnum\col@number<\tw@
17349 \PackageWarning{multicol}%
17350 {Using `\'number\col@number'
17351 columns doesn't seem a good idea.^^J
17352 I therefore use two columns instead}%
17353 \col@number\tw@ \fi
17354 \ifnum\col@number>20
17355 \PackageError{multicol}%
17356 {Too many columns}%
17357 {Current implementation doesn't
17358 support more than 20 columns.%
17359 \MessageBreak
17360 I therefore use 20 columns instead}%
17361 \col@number20 \fi
17362 \ifx\@footnotetext\mult@footnotetext
17363 \else
17364 \let\orig@footnotetext\@footnotetext
17365 \let\@footnotetext\mult@footnotetext
17366 \fi
17367 \ifx\@LTRfootnotetext\mult@LTRfootnotetext
17368 \else

```



```

17369      \let\orig@LTRfootnotetext\LTRfootnotetext
17370      \let\@LTRfootnotetext\mult@LTRfootnotetext
17371      \fi
17372      \ifx\@RTLfootnotetext\mult@RTLfootnotetext
17373      \else
17374      \let\orig@RTLfootnotetext\RTLfootnotetext
17375      \let\@RTLfootnotetext\mult@RTLfootnotetext
17376      \fi
17377      \@ifnextchar[\mult@cols{\mult@cols[]}]{}
17378      \long\def\mult@footnotetext#1{\begingroup
17379          \hsize\textwidth
17380          \columnwidth\textwidth
17381          \orig@footnotetext{#1}\endgroup}
17382      \long\def\mult@LTRfootnotetext#1{\begingroup
17383          \hsize\textwidth
17384          \columnwidth\textwidth
17385          \orig@LTRfootnotetext{#1}\endgroup}
17386      \long\def\mult@RTLfootnotetext#1{\begingroup
17387          \hsize\textwidth
17388          \columnwidth\textwidth
17389          \orig@RTLfootnotetext{#1}\endgroup}
17390      \def\right@footnoterule{%
17391          \kern-3\p@
17392          \hbox to \textwidth{\hskip \dimexpr\textwidth-.4\columnwidth\relax \hrulefill }
17393          \kern2.6\p@}
17394      \def\textwidth@footnoterule{\kern-3\p@
17395          \hrule \@width \textwidth \kern 2.6\p@}
17396      \def\bidileave@mult@copyins{%
17397          \advance\dimen@-\skip\@bidi@copyins@
17398          \advance\dimen@-\ht\@bidi@copyins@
17399      }
17400      \bidi@AtEndPreamble{%
17401          \if@bidi@csdef{footinsv@l}{%
17402              \def\bidileave@mult@footinsvr{%
17403                  \advance\dimen@-\skip\footinsvr@
17404                  \advance\dimen@-\ht\footinsvr@
17405              }%
17406              \def\bidileave@mult@footinsvl{%
17407                  \advance\dimen@-\skip\footinsv@l
17408                  \advance\dimen@-\ht\footinsv@l
17409              }%
17410              \def\bidii@init@mult@footinsvr{%
17411                  \multiply\count\footinsvr\col@number
17412                  \multiply\skip \footinsvr\col@number
17413              }%
17414              \def\bidii@init@mult@footinsvl{%
17415                  \multiply\count\footinsv@l\col@number
17416                  \multiply\skip \footinsv@l\col@number
17417              }%
17418              \def\bidireinsert@footnotesvr{\ifvoid\footinsvr\else
17419                  \insert\footinsvr{}\fi}%
17420              \def\bidireinsert@footnotesvl{\ifvoid\footinsv@l\else
17421                  \insert\footinsv@l{}\fi}%
17422              \bidi@patchcmd{\prepare@multicols}{%

```



```

17423     \reinsert@footnotes
17424   }{%
17425     \reinsert@footnotes
17426     \bidi@init@mult@footinsv@r
17427     \bidi@reinsert@footnotesv@r
17428     \bidi@init@mult@footinsv@l
17429     \bidi@reinsert@footnotesv@l
17430   }{}{}%
17431   \bidi@patchcmd{\multi@column@out}{%
17432     \ifnum \c@tracingmulticols>\thr@@
17433   }{%
17434     \ifvoid\footinsv@r
17435     \ifvoid\footinsv@l
17436     \else
17437       \PackageWarning{multicol}%
17438         {I moved some lines to
17439         the next page.\MessageBreak
17440         Footnotes on page
17441         \thepage\space might be wrong}%
17442     \fi
17443   \else
17444     \PackageWarning{multicol}%
17445     {I moved some lines to
17446     the next page.\MessageBreak
17447     Footnotes on page
17448     \thepage\space might be wrong}%
17449   \fi
17450   \ifnum \c@tracingmulticols>\thr@@
17451 }{}{}%
17452 \bidi@patchcmd{\endmulticols}{%
17453   \reinsert@footnotes
17454 }{%
17455   \reinsert@footnotes
17456   \bidi@reinsert@footnotesv@r
17457   \bidi@reinsert@footnotesv@l
17458 }{}{}%
17459 \bidi@patchcmd{\speci@ls}{%
17460   \reinsert@footnotes
17461 }{%
17462   \reinsert@footnotes
17463   \bidi@reinsert@footnotesv@r
17464   \bidi@reinsert@footnotesv@l
17465 }{}{}%
17466 \bidi@patchcmd{\speci@ls}{%
17467   \reinsert@footnotes
17468 }{%
17469   \reinsert@footnotes
17470   \bidi@reinsert@footnotesv@r
17471   \bidi@reinsert@footnotesv@l
17472 }{}{}%
17473 }{}%
17474 \bidi@patchcmd{\multi@column@out}{%
17475   \ifvbox \@kludgeins
17476 }{%

```



```

17477 \if@bidi@csdef{footinsv@l}{%
17478 \divide\skip\footinsv@r\col@number
17479 \ifvoid\footinsv@r \else
17480 \bidi@leave@mult@footins@vr
17481 \fi
17482 \divide\skip\footinsv@l\col@number
17483 \ifvoid\footinsv@l \else
17484 \bidi@leave@mult@footins@vl
17485 \fi
17486 }{}%
17487 \ifvoid\@bidi@copyins@ \else
17488 \bidi@leave@mult@copyins
17489 \fi
17490 \ifvbox \@kludgeins
17491 }{}{}%
17492 }

```

## 116 File multienum-xetex-bidi.def

```

17493 \ProvidesFile{multienum-xetex-bidi.def}[2011/04/16 v0.1 bidi adaptations for multienum packa
17494 \renewcommand{\itemx}[1]{\parbox[t]%
17495 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep%
17496 \parbox[t]{\remainxx}{\bidi@raggedright #1}\par}%\smallskip
17497 \renewcommand{\itemxx}[2]{\parbox[t]%
17498 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
17499 \parbox[t]{.5\remainxx}{\bidi@raggedright #1}\hfill\parbox[t]%
17500 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
17501 \parbox[t]{0.5\remainxx}{\bidi@raggedright #2}\smallskip}
17502 \renewcommand{\itemxxx}[3]{\parbox[t]%
17503 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep%
17504 \parbox[t]{.3333\remainxxx}{\bidi@raggedright #1}\hfill\parbox[t]%
17505 {\labelwidth}{\hfill {\labelname}}\hskip\labelsep%
17506 \parbox[t]{0.3333\remainxxx}{\bidi@raggedright #2}\hfill\parbox[t]%
17507 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep%
17508 \parbox[t]{0.3333\remainxxx}{\bidi@raggedright #3}\par}%\smallskip
17509 \renewcommand{\itemxxxx}[4]{\parbox[t]%
17510 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
17511 \parbox[t]{.25\remainxxxx}{\bidi@raggedright #1}\hfill\parbox[t]%
17512 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
17513 \parbox[t]{0.25\remainxxxx}{\bidi@raggedright #2}\hfill%
17514 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
17515 \parbox[t]{0.25\remainxxxx}{\bidi@raggedright #3}\hfill%
17516 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
17517 \parbox[t]{0.25\remainxxxx}{\bidi@raggedright #4}\smallskip}
17518 \renewcommand{\itemxxxxx}[5]{\parbox[t]%
17519 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
17520 \parbox[t]{0.2\remainxxxxx}{\bidi@raggedright #1}\hfill%
17521 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
17522 \parbox[t]{0.2\remainxxxxx}{\bidi@raggedright #2}\hfill%
17523 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
17524 \parbox[t]{0.2\remainxxxxx}{\bidi@raggedright #3}\hfill%
17525 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
17526 \parbox[t]{0.2\remainxxxxx}{\bidi@raggedright #4}\hfill%
17527 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep

```



```

17528 \parbox[t]{0.2\remainxxxx}{\bidi@raggedright #5}\smallskip}
17529 \renewcommand{\itemxox}[2]{\parbox[t]{%
17530 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
17531 \parbox[t]{\remainxox}{\bidi@raggedright #1}\hfill%
17532 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
17533 \parbox[t]{0.3333\remainxxx}{\bidi@raggedright #2}\smallskip}
17534 \renewcommand{\itemxxo}[2]{\parbox[t]{%
17535 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
17536 \parbox[t]{0.3333\remainxxx}{\bidi@raggedright #1}\hfill%
17537 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
17538 \parbox[t]{\remainxox}{\bidi@raggedright #2}\smallskip}
17539 \renewcommand{\itemxox}[3]{\parbox[t]{%
17540 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
17541 \parbox[t]{\remainxox}{\bidi@raggedright #1}\hfill%
17542 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
17543 \parbox[t]{0.25\remainxxxx}{\bidi@raggedright #2}\hfill%
17544 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
17545 \parbox[t]{0.25\remainxxxx}{\bidi@raggedright #3}\smallskip}
17546 \renewcommand{\itemxxox}[3]{\parbox[t]{%
17547 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
17548 \parbox[t]{.25\remainxxxx}{\bidi@raggedright #1}\hfill%
17549 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
17550 \parbox[t]{\remainxox}{\bidi@raggedright #2}\hfill%
17551 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
17552 \parbox[t]{0.25\remainxxxx}{\bidi@raggedright #3}\smallskip}
17553 \renewcommand{\itemxxxo}[3]{\parbox[t]{%
17554 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
17555 \parbox[t]{.25\remainxxxx}{\bidi@raggedright #1}\hfill%
17556 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
17557 \parbox[t]{.25\remainxxxx}{\bidi@raggedright #2}\hfill%
17558 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
17559 \parbox[t]{\remainxox}{\bidi@raggedright #3}\smallskip}

```

## 117 File natbib-xetex-bidi.def

```

17560 \ProvidesFile{natbib-xetex-bidi.def}[2017/06/09 v0.2 bidi adaptations for natbib package for
17561 \renewenvironment{thebibliography}[1]{%
17562 \bibsection
17563 \parindent\z@
17564 \bibpreamble
17565 \bibfont
17566 \if@RTL\if@LTRbibitems@RTLfalse\else\fi\else\if@RTLbibitems@RTLtrue\else\fi\fi
17567 \bidi@thebibliography@font@hook%
17568 \list{\@biblabel{\the\c@NAT@ctr}}{\@bibsetup{#1}\global\c@NAT@ctr\z@}%
17569 \ifNAT@openbib
17570 \renewcommand\newblock{\par}%
17571 \else
17572 \renewcommand\newblock{\hskip .11em \@plus.33em \@minus.07em}%
17573 \fi
17574 \sloppy\clubpenalty4000\widowpenalty4000
17575 \sfcode`\.\@m
17576 \let\NAT@bibitem@first@sw\@firstoftwo
17577 \let\citeN\cite \let\shortcite\cite
17578 \let\citeasnoun\cite

```



```

17579 }{%
17580 \bibitem@fin
17581 \bibpostamble
17582 \def\@noitemerr{%
17583 \PackageWarning{natbib}{Empty `thebibliography' environment}%
17584 }%
17585 \endlist
17586 \bibcleanup
17587 }%

```

## 118 File newfloat-xetex-bidi.def

```

17588 \ProvidesFile{newfloat-xetex-bidi.def}[2013/05/22 v0.1 bidi adaptations for newfloat package]
17589 \renewcommand*{\newfloat@setwithin[2]}{%
17590 \ifcsname c@chapter\endcsname
17591 \@removefromreset{#1}{chapter}%
17592 \fi
17593 \@removefromreset{#1}{section}%
17594 \edef\@tempa{#2}%
17595 \ifx\@tempa\@empty
17596 \def\@tempa{none}%
17597 \fi
17598 \def\@tempb{none}%
17599 \ifx\@tempa\@tempb
17600 \ifcsname c@chapter\endcsname
17601 \@chapterlistsgap@off{#1}%
17602 \fi
17603 \newfloat@@setwithin{#1}{-}{-}%
17604 \else
17605 \def\@tempb{chapter}%
17606 \ifx\@tempa\@tempb
17607 \@addtoreset{#1}{chapter}%
17608 \@chapterlistsgap@on{#1}%
17609 \newfloat@@setwithin{#1}{\ifnum\c@chapter>\z@ \thechapter\@SepMark\fi}{\theHchapter\@S
17610 \else
17611 \def\@tempb{section}%
17612 \ifx\@tempa\@tempb
17613 \@addtoreset{#1}{section}%
17614 \ifcsname c@chapter\endcsname
17615 \@addtoreset{#1}{chapter}%
17616 \@chapterlistsgap@on{#1}%
17617 \newfloat@@setwithin{#1}{\thesection\@SepMark}{\theHsection\@SepMark}%
17618 \else
17619 \newfloat@@setwithin{#1}{\ifnum\c@section>\z@ \thesection\@SepMark\fi}{\theHsection
17620 \fi
17621 \else
17622 \newfloat@Error{Invalid value `#2' for option `within'}%
17623 \fi
17624 \fi
17625 \fi}

```

## 119 File ntheorem-xetex-bidi.def

```

17626 \ProvidesFile{ntheorem-xetex-bidi.def}[2012/05/01 v0.1 bidi adaptations for ntheorem package]

```



```

17627 \gdef\@thm#1#2#3{%
17628   \if@thmmarks
17629     \stepcounter{end\InTheoType ctr}%
17630   \fi
17631   \renewcommand{\InTheoType}{#1}%
17632   \if@thmmarks
17633     \stepcounter{curr#1ctr}%
17634     \setcounter{end#1ctr}{0}%
17635   \fi
17636   \refstepcounter{#2}%
17637   \theorem@prework
17638   \thm@topsepadd \theorempostskipamount % cf. latex.ltx: \@trivlist
17639   \ifvmode \advance\thm@topsepadd\partopsep\fi
17640   \trivlist
17641   \@topsep \theorempreskipamount
17642   \@topsepadd \thm@topsepadd % used by \@endparenv
17643   \advance\linewidth -\theorem@indent
17644   \advance\@totalleftmargin \theorem@indent
17645   \ifRTL\parshape \@ne Opt \linewidth\else \parshape \@ne \@totalleftmargin \linewidth\fi
17646   \@ifnextchar [{\@ythm{#1}{#2}{#3}}{\@xthm{#1}{#2}{#3}}}]

```

## 120 File ntheorem-hyper-xetex-bidi.def

```

17647 \ProvidesFile{ntheorem-hyper-xetex-bidi.def}[2012/05/01 v0.1 bidi adaptations for ntheorem-h
17648 \gdef\@thm#1#2#3{%
17649   \if@thmmarks
17650     \stepcounter{end\InTheoType ctr}%
17651   \fi
17652   \renewcommand{\InTheoType}{#1}%
17653   \if@thmmarks
17654     \stepcounter{curr#1ctr}%
17655     \setcounter{end#1ctr}{0}%
17656   \fi
17657   \refstepcounter{#2}%
17658   \thm@topsepadd \theorempostskipamount % cf. latex.ltx: \@trivlist
17659   \ifvmode \advance\thm@topsepadd\partopsep\fi
17660   \trivlist
17661   \@topsep \theorempreskipamount
17662   \@topsepadd \thm@topsepadd % used by \@endparenv
17663   \advance\linewidth -\theorem@indent
17664   \advance\@totalleftmargin \theorem@indent
17665   \ifRTL\parshape \@ne Opt \linewidth\else \parshape \@ne \@totalleftmargin \linewidth\fi
17666   \@ifnextchar [{\@ythm{#1}{#2}{#3}}{\@xthm{#1}{#2}{#3}}}]

```

## 121 File overpic-xetex-bidi.def

```

17667 \ProvidesFile{overpic-xetex-bidi.def}[2015/12/07 v0.1 bidi adaptations for overpic package f
17668 \renewenvironment{overpic}[2] [] {%
17669   \sbox{\z@}{\includegraphics[#1]{#2}}%
17670   \settodepth{\@tempcnta}{\usebox{\z@}}%
17671   \settoheight{\@tempcntb}{\usebox{\z@}}%
17672   \advance\@tempcntb\@tempcnta%
17673   \settowidth{\@tempcnta}{\usebox{\z@}}%
17674   \setlength{\@tempdima}{\unitlength}%

```



```

17675 \count@=\z@\Gin@gridfalse\setkeys{Gin}{#1}%
17676 %
17677 \OVP@calc%
17678 %
17679 \begin{picture}(\@tempcnta,\@tempcntb)%
17680 \if@RTL\else\put(0,0){\makebox(0,0)[bl]{\usebox{\z@}}}%
17681 \ifGin@grid%
17682 \put(0,0){\normalfont\fontsize\@viipt\@viipt\selectfont%
17683 \grid(\@tempcnta,\@tempcntb)(\count@,\count@)[0,0]}%
17684 \fi\fi%
17685 % reset the graphics parameter
17686 \let\Gin@outer@scalex\relax
17687 \let\Gin@outer@scaley\relax
17688 \let\Gin@angle\relax
17689 \let\Gin@ewidth\Gin@exclamation
17690 \let\Gin@eheight\Gin@ewidth
17691 \def\Gin@scalex{1}
17692 \let\Gin@scaley\Gin@exclamation
17693 }{%
17694 \if@RTL\ifGin@grid%
17695 \put(0,0){\normalfont\fontsize\@viipt\@viipt\selectfont%
17696 \grid(\@tempcnta,\@tempcntb)(\count@,\count@)[0,0]}%
17697 \fi%
17698 \put(0,0){\makebox(0,0)[bl]{\usebox{\z@}}}\fi%
17699 \end{picture}%
17700 }%

```

## 122 File pdfbase-xetex-bidi.def

```

17701 \ProvidesFile{pdfbase-xetex-bidi.def}[2022/02/18 v0.4 bidi adaptations for pdfbase package f
17702 \ExplSyntaxOn
17703 \cs_set_eq:NN\pbs_outputpage_orig:\@outputpage
17704 \cs_set_nopar:Npn\@outputpage{
17705 \int_gincr:N\g_pbs_page_int
17706 \box_if_vertical:cTF{\outputbox}{
17707 \bool_set_true:N\l_pbs_is_vertical_bool
17708 }{
17709 \bool_set_false:N\l_pbs_is_vertical_bool
17710 }
17711 \hbox_set:Nn\@outputbox{
17712 %begin of page
17713 \hbox_overlap_right:n{\seq_map_inline:Nn\g_pbs_bop_seq{##1}}
17714 \box_use_drop:N\@outputbox
17715 %end of page
17716 \hbox_overlap_right:n{\seq_map_inline:Nn\g_pbs_eop_seq{##1}}
17717 }
17718 \bool_if:NT\l_pbs_is_vertical_bool{
17719 \vbox_set:Nn\@outputbox{\box_use_drop:N\@outputbox}
17720 }
17721 \pbs_outputpage_orig:
17722 }
17723 \ExplSyntaxOff

```



## 123 File pdfscape-xetex-bidi.def

```
17724 \ProvidesFile{pdfscape-xetex-bidi.def}[2022/02/18 v0.1 bidi adaptations for pdfscape packa
17725 \bidi@patchcmd{\landscape}{\PLS@Rotate{90}}{%
17726   \if@RTL
17727     \PLS@Rotate{-90}%
17728   \else
17729     \PLS@Rotate{90}%
17730   \fi
17731 }{}{}
```

## 124 File pdfpages-xetex-bidi.def

```
17732 \ProvidesFile{pdfpages-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for pdfpages package
17733 \renewcommand*{\includepdf}[2] [] {%
17734   \begingroup
17735   \@RTLfalse
17736   \let\AM@threadname\relax
17737   \AM@split@options{pdfpages}{#1}%
17738   \edef\AM@temp{\pdfpages{\the\@temptokena}}%
17739   \expandafter\setkeys\AM@temp
17740   \ifthenelse{\boolean{AM@pkg@draft} \and \boolean{AM@survey}}{%
17741     \let\AM@currentdocname\relax
17742     \renewcommand\includegraphics[2] [] {Survey in draft-mode}%
17743     \def\AM@pagecount{0}%
17744   }{%
17745     \AM@findfile{#2}%
17746     \if\AM@threadname\relax
17747       \def\AM@threadname{\AM@currentdocname}%
17748     \fi
17749   }%
17750   \ifAM@survey
17751     \def\AM@pagestemp{}%
17752     \@tempcnta=0
17753     \def\foo{%
17754       \ifundefined{r@\AM@xrprefix pdfpages@page\the\@tempcnta}%
17755       {\let\foo\relax}
17756       {\expandafter\ifx\expandafter\\AM@pagestemp\\
17757         \edef\AM@pagestemp{%
17758           \AM@pageref{\AM@xrprefix pdfpages@page\the\@tempcnta}}%
17759         \else
17760           \edef\AM@pagestemp{\AM@pagestemp,%
17761             \AM@pageref{\AM@xrprefix pdfpages@page\the\@tempcnta}}%
17762         \fi
17763         \advance\@tempcnta 1\relax
17764       }%
17765     \foo
17766   }%
17767   \foo
17768   \expandafter\ifx\expandafter\\AM@pagestemp\\
17769   \def\AM@pagestemp{1}%
17770   \fi
17771 \fi
17772 \ifAM@output
```



```

17773 \expandafter\AM@readlist\expandafter{\AM@pagestemp}%
17774 \AM@output{#1}%
17775 \fi
17776 \AM@CheckAtEnd
17777 \endgroup
17778 \AM@ClearShipoutPicture
17779 }

```

## 125 File pgfcorescopes.code-xetex-bidi.def

```

17780 \ProvidesFile{pgfcorescopes.code-xetex-bidi.def}[2015/11/14 v0.1 bidi adaptations for pgf pa
17781 \def\pgfpicture{%
17782 \begingroup%
17783 \ifmmode\else\@RTLfalse\beginL\fi%
17784 \pgfpicturetrue%
17785 \global\advance\pgf@picture@serial@count by1\relax%
17786 \edef\pgfpictureid{pgfid\the\pgf@picture@serial@count}%
17787 \let\pgf@nodecallback=\pgfutil@gobble%
17788 \pgf@picmaxx=-16000pt\relax%
17789 \pgf@picminx=16000pt\relax%
17790 \pgf@picmaxy=-16000pt\relax%
17791 \pgf@picminy=16000pt\relax%
17792 \pgf@relevantforpicturesizetrue%
17793 \pgf@resetpathsizes%
17794 \pgfutil@ifnextchar\bgroup\pgf@oldpicture\pgf@picture%
17795 \def\endpgfpicture{%
17796 \ifpgfrememberpicturerepositiononpage%
17797 \hbox to0pt{\pgfsys@markposition{\pgfpictureid}}%
17798 \fi%
17799 % ok, now let's position the box
17800 \ifdim\pgf@picmaxx=-16000pt\relax%
17801 % empty picture. make size 0.
17802 \global\pgf@picmaxx=0pt\relax%
17803 \global\pgf@picminx=0pt\relax%
17804 \global\pgf@picmaxy=0pt\relax%
17805 \global\pgf@picminy=0pt\relax%
17806 \fi%
17807 % Shift baseline outside:
17808 \pgf@relevantforpicturesizefalse%
17809 \pgf@process{\pgf@baseline}%
17810 \xdef\pgf@shift@baseline{\the\pgf@y}%
17811 %
17812 \pgf@process{\pgf@trimleft}%
17813 \global\advance\pgf@x by-\pgf@picminx
17814 % prepare \hskip\pgf@trimleft@final.
17815 % note that \pgf@trimleft@final is also queried
17816 % by the pgf image externalization.
17817 \xdef\pgf@trimleft@final{-\the\pgf@x}%
17818 %
17819 \pgf@process{\pgf@trimright}%
17820 \global\advance\pgf@x by-\pgf@picmaxx
17821 % prepare \hskip\pgf@trimright@final.
17822 % note that \pgf@trimright@final is also queried
17823 % by the pgf image externalization.

```



```

17824         \xdef\pgf@trimright@final{\the\pgf@x}%
17825     %
17826     \pgf@remember@layerlist@globally
17827     \endgroup%
17828     \hss%
17829     \egroup%
17830     \pgf@restore@layerlist@from@global
17831     \pgf@insertlayers%
17832     \endgroup%
17833     \pgfsys@discardpath%
17834     \endgroup%
17835     \pgfsys@endscope%
17836     \pgfsys@endpicture%
17837     \endgroup%
17838     \hss
17839 \egroup%
17840 \pgfsys@typesetpicturebox\pgfpic%
17841 \ifmmode\else\endL\fi%
17842 \endgroup%
17843 }

```

## 126 File pgfsys.code-xetex-bidi.def

```

17844 \ProvidesFile{pgfsys.code-xetex-bidi.def}[2022/06/01 v0.1 bidi adaptations for pgfsys.code.t
17845 \def\pgfsys@shadingoutsidepgfpicture#1{%
17846     \beginL#1\endL%
17847 }
17848
17849

```

## 127 File picinpar-xetex-bidi.def

```

17850 \ProvidesFile{picinpar-xetex-bidi.def}[2013/04/08 v0.2 bidi adaptations for picinpar package
17851 \long\def\@makewincaption#1#2{%
17852     \setbox\@tempboxa\hbox{\footnotesize{\bf #1:\enspace}{#2}}%
17853     \ifdim\wd\@tempboxa>\picwd
17854         {\footnotesize{\bf #1:\enspace}{#2\par}}
17855     \else
17856         \hbox to\picwd{\if@RTL\beginR\fi\hfil\box\@tempboxa\hfil\if@RTL\endR\fi}
17857     \fi}
17858 \def\endwindow{%
17859     \global\tcd=\tcdsav
17860     \egroup\vskip\parskip\parshape=0 % reset parshape; end \box\rawtext
17861     \vbadness=10000
17862     \splittopskip=0pt
17863 %
17864 % Typeset the lines above the window
17865 %
17866 \ifnum\tcd>0\setbox\holder=\vsplit\rawtext to \tcd\baselineskip
17867 \tcn=\tcd
17868 \loop\advance\tcn -1
17869 \setbox\fslice=\vsplit\holder to\baselineskip
17870 \prune\fslice\linewidth
17871 \topheight=0pt

```



```

17872 \ifnum\dp\fslice>\dp\wstrutbox
17873         \advance\topheight-\dp\fslice
17874         \advance\topheight\dp\wstrutbox
17875         \advance\topheight\ilg\fi
17876 \hbox to\linewidth{\box\fslice}
17877 \vskip-\topheight
17878 \ifdim\ht\holder>0pt\repeat
17879 \fi
17880 %
17881 % Now we build the boxes beside the window
17882 %
17883 \global\topheight=\tcl\baselineskip
17884 \ifnum\cumpartcl>0\global\tcl=\cumtcl
17885         \global\topheight=\vpic
17886 \fi
17887 \ifnum\bl>0 \ifnum\br>0 \multiply\topheight by 2\fi\fi
17888 \ifnum\bl>0\setbox\holder=\vsplit\rawtext to\topheight
17889 \else\ifnum\br>0\setbox\holder=\vsplit\rawtext to\topheight\fi\fi
17890 \tcn=\tcl \na=0 \nb=0
17891 \ifnum\bl>0 \ifnum\br>0 \multiply\tcn by 2\fi\fi
17892 \ifnum\bl>0\na=\tcn\ifnum\br>0\divide\na by 2\fi\fi
17893 \ifnum\br>0\nb=\tcn\ifnum\bl>0\divide\nb by 2\fi\fi
17894 \ifnum\na=0\ifnum\nb=0
17895         \setbox\waslice=\vbox to\vpic{\vss}
17896         \setbox\wbslice=\vbox to\vpic{\vss}
17897         \bl=1\br=1
17898         \vskip\ilg
17899 \fi\fi
17900 %
17901 % both sides
17902 %
17903 \ifnum\na>0 \ifnum\nb>0
17904 \loop\advance\nb -1
17905 \advance\na -1
17906 \if@RTL%
17907 \setbox\bslice=\vsplit\holder to\baselineskip
17908 \prune\bslice\rtside
17909 \setbox\wbslice=\vbox{\unvbox\wbslice\hbox
17910 to\rtside{\box\bslice\hfil}}
17911 \setbox\aslice=\vsplit\holder to\baselineskip
17912 \prune\aslice\lftside
17913 \setbox\waslice=\vbox{\unvbox\waslice\hbox
17914 to\lftside{\box\aslice\hfil}}
17915 \else%
17916 \setbox\aslice=\vsplit\holder to\baselineskip
17917 \prune\aslice\lftside
17918 \setbox\waslice=\vbox{\unvbox\waslice\hbox
17919 to\lftside{\box\aslice\hfil}}
17920 \setbox\bslice=\vsplit\holder to\baselineskip
17921 \prune\bslice\rtside
17922 \setbox\wbslice=\vbox{\unvbox\wbslice\hbox
17923 to\rtside{\box\bslice\hfil}}
17924 \fi%
17925 \ifnum\nb>0\repeat

```



```

17926 \fi\fi
17927 %
17928 % only text on the left side
17929 %
17930 \ifnum\na>0
17931   \loop\advance\na -1
17932   \setbox\aslice=\vsplit\holder to\baselineskip
17933   \prune\aslice\lftside
17934   \setbox\waslice=\vbox{\unvbox\waslice\hbox
17935     to\lftside{\box\aslice\hfil}}
17936   \ifdim\ht\holder>0pt\repeat
17937 \fi
17938 %
17939 % only text on the right side
17940 %
17941 \ifnum\nb>0
17942   \loop\advance\nb -1
17943   \setbox\bslice=\vsplit\holder to\baselineskip
17944   \prune\bslice\rtside
17945   \setbox\wbslice=\vbox{\unvbox\wbslice\hbox
17946     to\rtside{\box\bslice\hfil}}
17947   \ifdim\ht\holder>0pt\repeat
17948 \fi
17949 %
17950 % fixing the dimensions of the window part
17951 %
17952 \ifnum\bl=0\topheight=\ht\wbslice
17953 \else\ifnum\br=0\topheight=\ht\waslice
17954   \else\ifdim\ht\waslice>\ht\wbslice\topheight=\ht\waslice
17955     \else\topheight=\ht\wbslice\fi\fi\fi
17956 %
17957 % ship out the window material to the main vertical list
17958 %
17959 \ifnum\bl>0 \ifnum\br>0 \ifdim\ht\wbslice<\topheight
17960 \setbox\wbslice=\vbox to\topheight{\box\wbslice\vfill}
17961 \fi\fi\fi
17962 \setbox>windowbox=\vbox{\hbox to\linewidth{%
17963 \ifnum\bl>0\box\waslice\hfill\fi%
17964 \vbox to\topheight{\hrule width\picwd height0pt depth0pt\vskip0pt%
17965 \vfill\unvbox\picbox%
17966 \ifnum\picwd>0\vfill\fi%
17967 \vss}\ifnum\br>0\hfill\vbox{\box\wbslice}\fi}}%
17968 \unvbox>windowbox%
17969 \loop
17970   \setbox\bslice=\vsplit\rawtext to\baselineskip
17971   \prune\bslice\linewidth
17972   \setbox\wbslice=\vbox{\hbox to\linewidth{\box\bslice\hfil}}
17973   \unvbox\wbslice
17974   \ifdim\ht\rawtext>0pt
17975 \repeat
17976 }% FINITO

```

## 128 File plain-xetex-bidi.def



```

17977 \def\TeXeTOn{\TeXeTstate=1 }
17978 \def\TeXeTOff{\TeXeTstate=0 }
17979 \TeXeTOn
17980 \def\usebox#1{\leavevmode\copy #1\relax}
17981 \def\bidirectional@everypar{\setbox\z@\lastbox\if@RTL\beginR\else\beginL\fi\ifvoid\z@\else\usebox\z@
17982 \let\bidirectional@everypar=\everypar
17983 \newtoks\bidirectional@everypar
17984 \bidirectional@everypar\expandafter{\the\bidirectional@everypar}
17985 \bidirectional@everypar{\bidirectional@everypar\the\bidirectional@everypar}
17986 \let\everypar=\bidirectional@everypar
17987 \def\moreLRE{\bracetext \aftergroup\endL \beginL\@RTLfalse}
17988 \def\moreRLE{\bracetext \aftergroup\endR \beginR\@RTLtrue}
17989 \protected\def\hboxR{\hbox\bgroup
17990 \everyhbox{%
17991 \aftergroup\egroup
17992 \everyhbox{}}%
17993 \beginR
17994 \@hboxRconstructtrue
17995 \bgroup
17996 \aftergroup\endR
17997 \aftergroup\egroup
17998 }\hbox}
17999 \protected\def\hboxL{\hbox\bgroup
18000 \everyhbox{%
18001 \aftergroup\egroup
18002 \everyhbox{}}%
18003 \beginL
18004 \@hboxRconstructfalse
18005 \bgroup
18006 \aftergroup\endL
18007 \aftergroup\egroup
18008 }\hbox}
18009 \protected\def\vboxR{\vbox\bgroup
18010 \everyvbox{%
18011 \aftergroup\egroup
18012 \everyvbox{}}%
18013 \@RTLtrue
18014 \bgroup
18015 \aftergroup\egroup
18016 }\vbox}
18017 \protected\def\vboxL{\vbox\bgroup
18018 \everyvbox{%
18019 \aftergroup\egroup
18020 \everyvbox{}}%
18021 \@RTLfalse
18022 \bgroup
18023 \aftergroup\egroup
18024 }\vbox}
18025 \def\LTR{\par\@RTLfalse\@RTL@footnotefalse\hsize\linewidth\parshape\z@}
18026 \def\endLTR{\par}
18027 \def\RTL{\par\@RTLtrue\@RTL@footnotetrue\hsize\linewidth\parshape\z@}
18028 \def\endRTL{\par}
18029 \def\setRTL{\@RTLtrue\@RTL@footnotetrue}
18030 \def\setLTR{\@RTLfalse\@RTL@footnotefalse}

```



```

18031 \let\unsetRTL=\setLTR
18032 \let\unsetLTR=\setRTL
18033 \let\LR=\LRE
18034 \let\RL=\RLE
18035 \def\@ensure@RTL#1{\if@RTL#1\else\RLE{#1}\fi}
18036 \def\@ensure@LTR#1{\if@RTL\LRE{#1}\else#1\fi}
18037 \let\@ensure@RL=\@ensure@RTL
18038 \let\@ensure@LR=\@ensure@LTR
18039 \def\@ensure@dir#1{\if@RTL\RLE{#1}\else{#1}\fi}
18040 \let\@ensure@maindir=\@ensure@dir
18041 \def\@RTL{RTL}
18042 \def\@LTR{LTR}
18043 \def\save@dir{\if@RTL\gdef\saved@dir{RTL}\else\gdef\saved@dir{LTR}\fi}
18044 \def\reset@dir{\ifx\saved@dir\@RTL\setRTL\else\ifx\saved@dir\@LTR\setLTR\else\relax\fi}
18045 \let\@TeX\TeX
18046 \def\TeX{\@ensure@LTR{\@TeX}}
18047 \def\pagecontents{\ifvoid\topins\else\unvbox\topins\fi
18048   \dimen@=\dp\cclv \unvbox\cclv % open up \box255
18049   \ifvoid\footins\else % footnote info is present
18050     \vskip\skip\footins
18051     \footnoterule
18052     \unvbox\footins\fi
18053   \ifr@ggedbottom \kern-\dimen@ \vfil \fi
18054   \ifvoid\@bidi@copyins@
18055   \else
18056     \vskip\skip\@bidi@copyins@
18057     \unvbox\@bidi@copyins@
18058   \fi
18059 }
18060 \long\def\bidi@reflect@box#1{%
18061   \leavevmode
18062   \setbox\z@\hbox{#1}%
18063   \setbox\tw@\hbox{\special{x:gsave}\special{x:scale -1 1}\rlap{\copy\z@}\special{x:grestore}}
18064   \hbox to \wd\z@{\kern\wd\z@\box\tw@\hss}%
18065 }
18066 \def\XeTeX{\LR{\leavevmode$\smash{\hbox{X}\lower.5ex
18067   \hbox{\kern-.125em\bidi@reflect@box{E}}\kern-.1667em \TeX}}$}}
18068 \let\setRL=\setRTL
18069 \let\setLR=\setLTR
18070 \let\unsetRL=\setLTR
18071 \let\bidi@saved@eqno=\eqno
18072 \let\bidi@saved@leqno=\leqno
18073 \def\eqno{\ifnum\predisplaydirection<\z@ \bidi@saved@leqno \else \bidi@saved@eqno \fi}
18074 \def\leqno{\ifnum\predisplaydirection<\z@ \bidi@saved@eqno \else \bidi@saved@leqno \fi}
18075 \def\centerline#1{\line{\hss\if@RTL\beginR\fi#1\if@RTL\endR\fi\hss}}
18076 \def\leftline#1{\line{\if@RTL\beginR\fi#1\if@RTL\endR\fi\hss}}
18077 \def\rightline#1{\line{\hss\if@RTL\beginR\fi#1\if@RTL\endR\fi}}

```

## 129 File pstricks-xetex-bidi.def

```

18078 \ProvidesFile{pstricks-xetex-bidi.def}[2015/11/18 v0.5 bidi adaptations for pstricks package]
18079 \def\pspicture{\begingroup\ifmmode\else\@RTLfalse\beginL\fi\pst@ifstar\pst@picture}
18080 \def\endpspicture{%
18081   \ifshowgrid\ifnum\showgridp>0

```



```

18082 \psgrid[xunit=\sh@wgridXunit,yunit=\sh@wgridYunit,style=gridstyle]\fi\fi%
18083 \pst@killglue
18084 % \global\pst@shift=\pst@shift% in fact of the following endgroup
18085 \endgroup
18086 \egroup
18087 \ifdim\wd\pst@hbox=\z@\else
18088 %\@pstrickserr{Extraneous space in the pspicture environment}%
18089 %\Type \space <return> \space to proceed.}%
18090 \fi
18091 \ht\pst@hbox=\pst@dimd
18092 \dp\pst@hbox=-\pst@dimb
18093 \setbox\pst@hbox=\hbox{%
18094 \kern-\pst@dimd
18095 % Orig version -----
18096 %\ifx\pst@tempa\@empty\else
18097 %\advance\pst@dimd-\pst@dimb
18098 %\pst@dimd=\pst@tempa\pst@dimd
18099 %\advance\pst@dimd\pst@dimb
18100 %\lower\pst@dimd
18101 %\fi
18102 %----- end Orig
18103 \ifPst@shift@star%\typeout{==pstricks== old behaviour of the shift option}% shift=*
18104 \advance\pst@dimd-\pst@dimb
18105 \pst@dimd=0.5\pst@dimd
18106 \else\pst@dimd-\pst@shift\fi
18107 \advance\pst@dimd\pst@dimb
18108 \lower\pst@dimd
18109 \box\pst@hbox
18110 \kern\pst@dimc}%
18111 \if@star\setbox\pst@hbox=\hbox{\clipbox@@\z@}\fi
18112 \leavevmode\ifdim\overfullrule=\z@\box\pst@hbox\else
18113 \fboxsep=0pt
18114 \fbox{\rule[-\pst@shift]{0pt}{\ht\pst@hbox}\rule{\wd\pst@hbox}{0pt}}\fi
18115 \ifmmode\else\endL\fi
18116 \endgroup%
18117 \psset[pstricks]{shift=0}% reset value
18118 }

```

## 130 File quotchap-xetex-bidi.def

```

18119 \ProvidesFile{quotchap-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for quotchap package]
18120 \renewcommand{\qauthor}[1]{%
18121 \par\smallskip
18122 {\if@RTL\raggedright\else\raggedleft\fi\upshape #1\qqquad\hbox{}\par}\bigskip}
18123 \renewcommand{\@makechapterhead}[1]{\chapterheadstartvskip%
18124 {\size@chapter{\sectfont\if@RTL\raggedright\else\raggedleft\fi
18125 {\chapnumfont
18126 \ifnum \c@secnumdepth >\m@ne%
18127 \if@mainmatter\thechapter%
18128 \fi\fi
18129 \par\nobreak}%
18130 {\if@RTL\raggedright\else\raggedleft\fi\advance\if@RTL\rightmargin\else\leftmargin\fi
18131 \nobreak\chapterheadendvskip}}
18132 \renewcommand*{\@iprintcites}{%

```



```

18133 \vbox to\z@{\leavevmode\copy\@quotebox\vss}
18134 \global\let\@printcites\relax}

```

## 131 File ragged2e-xetex-bidi.def

```

18135 \ProvidesFile{ragged2e-xetex-bidi.def}[2018/10/17 v0.3 bidi adaptations for ragged2e package]
18136 \renewcommand{\Centering}{%
18137   \ifx\\ \@raggedtwo@savedcr
18138     \let\\ \@centercr
18139   \fi
18140   \let\@newline\@raggedtwo@newline
18141   \if@RTL\righskip\else\leftskip\fi\CenteringLeftskip
18142   \@rightskip\CenteringRightskip
18143   \if@RTL\leftskip\else\righskip\fi\@rightskip
18144   \parfillskip\CenteringParfillskip
18145   \parindent\CenteringParindent
18146   \@raggedtwo@spaceskiptrue
18147   \@raggedtwo@everyselectfont
18148 }
18149 \renewcommand{\RaggedLeft}{%
18150   \ifx\\ \@raggedtwo@savedcr
18151     \let\\ \@centercr
18152   \fi
18153   \let\@newline\@raggedtwo@newline
18154   \if@RTL\righskip\else\leftskip\fi\RaggedLeftLeftskip
18155   \@rightskip\RaggedLeftRightskip
18156   \if@RTL\leftskip\else\righskip\fi\@rightskip
18157   \parfillskip\RaggedLeftParfillskip
18158   \parindent\RaggedLeftParindent
18159   \@raggedtwo@spaceskiptrue
18160   \@raggedtwo@everyselectfont
18161 }
18162 \renewcommand{\RaggedRight}{%
18163   \ifx\\ \@raggedtwo@savedcr
18164     \let\\ \@centercr
18165   \fi
18166   \let\@newline\@raggedtwo@newline
18167   \if@RTL\righskip\else\leftskip\fi\RaggedRightLeftskip
18168   \@rightskip\RaggedRightRightskip
18169   \if@RTL\leftskip\else\righskip\fi\@rightskip
18170   \parfillskip\RaggedRightParfillskip
18171   \parindent\RaggedRightParindent
18172   \@raggedtwo@spaceskiptrue
18173   \@raggedtwo@everyselectfont
18174 }
18175 \renewcommand{\justifying}{%
18176   \let\\ \@raggedtwo@savedcr
18177   \let\@newline\@raggedtwo@saved@newline
18178   \if@RTL\righskip\else\leftskip\fi\z@
18179   \@rightskip\z@
18180   \if@RTL\leftskip\else\righskip\fi\@rightskip
18181   \parfillskip\JustifyingParfillskip
18182   \parindent\JustifyingParindent
18183   \@raggedtwo@spaceskipfalse

```



```

18184 \@raggedtwoe@everyselectfont
18185 }
18186 \def\@raggedtwoe@raggedrightboxes@opt{%
18187 \renewcommand{\@arrayparboxrestore}{%
18188 \let\if@nobreak\iffalse
18189 \let\if@noskipsec\iffalse
18190 \let\par\@par
18191 \let\-\@dischyph
18192 \let'\@acci\let'\@accii\let\=\@acciii
18193 \parskip\z@skip
18194 \everypar{}%
18195 \linewidth\hsize
18196 \@totalleftmargin\z@
18197 \if@RTL
18198 \RaggedLeft
18199 \else
18200 \RaggedRight
18201 \fi
18202 \lineskip\normallineskip
18203 \baselineskip\normalbaselineskip
18204 \sloppy}%
18205 \let\@raggedtwoe@raggedrightboxes@opt\relax
18206 }
18207 \def\@raggedtwoe@document@opt{%
18208 \AtBeginDocument{\@raggedtwoe@abdhook}%
18209 \@raggedtwoe@raggedrightboxes@opt
18210 \@raggedtwoe@footmisctrue
18211 \let\@raggedtwoe@document@opt\relax
18212 }
18213 \def\@raggedtwoe@abdhook{%
18214 \PackageInfo{ragged2e}{ABD: executing '\string\RaggedLeft' for
18215 right to left documents and '\string\RaggedRight' for left
18216 to right documents}%
18217 \if@RTL
18218 \RaggedLeft
18219 \else
18220 \RaggedRight
18221 \fi
18222 \@ifundefined{@tocrmarg}{\edef\@tocrmarg{\@tocrmarg plus 2em}}%
18223 \let\@raggedtwoe@abdhook\relax
18224 }
18225 \@ifpackagewith{ragged2e}{raggedrightboxes}{%
18226 \@raggedtwoe@raggedrightboxes@opt
18227 }{}
18228 \@ifpackagewith{ragged2e}{document}{%
18229 \@raggedtwoe@document@opt
18230 }{}
18231 \let\origin@RaggedLeft=\RaggedLeft
18232 \let\origin@RaggedRight=\RaggedRight
18233 \def\RaggedLeft{\if@RTL\origin@RaggedRight\else\origin@RaggedLeft\fi}
18234 \def\RaggedRight{\if@RTL\origin@RaggedLeft\else\origin@RaggedRight\fi}

```

## 132 File rapport1-xetex-bidi.def



```

18235 \ProvidesFile{rapport1-xetex-bidi.def}[2017/06/09 v0.4 bidi adaptations for rapport1 class f
18236 \renewenvironment{theindex}{%
18237   \if@twocolumn
18238     \@restonecolfalse
18239   \else
18240     \@restonecoltrue
18241   \fi
18242   \columnseprule \z@
18243   \columnsep 35\p@
18244   \twocolumn[\@makeschapterhead{\indexname}]%
18245   \@mkboth{\MakeUppercase{\indexname}}{\MakeUppercase{\indexname}}%
18246   \thispagestyle{plain}\parindent\z@
18247   \parskip\z@ \@plus .3\p@\relax
18248   \let\item\@idxitem
18249 }{%
18250   \if@restonecol\onecolumn\else\clearpage\fi}
18251 \renewcommand*\head@style{%
18252   \interlinepenalty \@M
18253   \hyphenpenalty=\@M \exhyphenpenalty=\@M
18254   \if@RTL\leftskip\else\rightskip\fi=0cm plus .7\hsize\relax}
18255 \if@titlepage
18256   \renewenvironment{abstract}{%
18257     \titlepage
18258     \null\vfil
18259     \section*{\SectFont\abstractname}%
18260     \noindent\ignorespaces}
18261   {\par\vfil\null\endtitlepage}
18262 \else
18263   \renewenvironment{abstract}{%
18264     \if@twocolumn
18265       \section*{\abstractname}%
18266     \else
18267       \bgroup\if@RTL\leftskip\else\rightskip\fi=\unitindent
18268       \section*{\small\SectFont\abstractname}%
18269       \noindent\ignorespaces
18270     \fi}
18271   {\if@twocolumn\else\par\egroup\fi}
18272 \fi
18273 \renewcommand*\@regtocline[3]{%
18274   \ifnum #1>\c@tocdepth
18275   \else
18276     \vskip\z@\@plus.2\p@
18277     {\hangindent\z@ \@afterindenttrue \interlinepenalty\@M
18278     \if@RTL\rightskip\else\leftskip\fi\unitindent
18279     \if@RTL\leftskip\else\rightskip\fi\unitindent\@plus 1fil
18280     \parfillskip\z@
18281     \@tempdima\unitindent
18282     \parindent\z@
18283     \leavevmode
18284     \hbox{} \hskip -\if@RTL\rightskip\else\leftskip\fi\relax#2\nobreak
18285     \hskip 1em \nobreak{\slshape #3}\par
18286   }%
18287   \fi}
18288 \if@oldtoc

```



```

18289 \renewcommand*\l@part[2]{%
18290   \ifnum \c@tocdepth >-2\relax
18291     \addpenalty{-\@highpenalty}%
18292     \addvspace{2.25em \@plus\p@}%
18293     \begingroup
18294       \setlength\@tempdima{3em}%
18295       \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
18296       \parfillskip -\@pnumwidth
18297       {\leavevmode
18298         \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
18299       \nobreak
18300       \global\@nbreaktrue
18301       \everypar{\global\@nbreakfalse\everypar{}}%
18302     \endgroup
18303   \fi}
18304 \else
18305   \renewcommand*\l@part{%
18306     \ifnum \c@tocdepth >-2\relax
18307       \addpenalty{-\@highpenalty}%
18308       \addvspace{2.25em \@plus \p@}%
18309       \@regtocline{0}%
18310     \fi}
18311 \fi
18312 \if@oldtoc
18313 \renewcommand*\l@chapter[2]{%
18314   \addpenalty{-\@highpenalty}%
18315   \vskip 1.0em \@plus\p@
18316   \setlength\@tempdima{1.5em}%
18317   \begingroup
18318     \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
18319     \parfillskip -\@pnumwidth
18320     \leavevmode \bfseries
18321     \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
18322     \hskip -\if@RTL\rightskip\else\leftskip\fi
18323     #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
18324     \penalty\@highpenalty
18325   \endgroup}
18326 \else
18327   \renewcommand*\l@chapter{\@regtocline{0}}
18328 \fi
18329 \renewcommand*\left@footnoterule{%
18330   \kern-3\p@
18331   \kern.5\baselineskip
18332   \hrule\@width\unitindent
18333   \kern.4\baselineskip
18334 }
18335 \renewcommand*\right@footnoterule{%
18336   \kern-3\p@
18337   \kern.5\baselineskip
18338   \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\unitindent\relax \hrulefill }
18339   \kern.4\baselineskip}
18340 \renewenvironment{thebibliography}[1]
18341   {\chapter*{\bibname}%
18342     \@mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}%

```



```

18343 \ifRTL\ifLTRbibitems\@RTLfalse\else\fi\else\ifRTLbibitems\@RTLtrue\else\fi\fi
18344 \bidi@thebibliography@font@hook%
18345 \list{\@biblabel{\@arabic\c@enumiv}}%
18346 {\settowidth\labelwidth{\@biblabel{#1}}%
18347 \leftmargin\labelwidth
18348 \advance\leftmargin\labelsep
18349 \@openbib@code
18350 \usecounter{enumiv}%
18351 \let\p@enumiv\@empty
18352 \renewcommand*\theenumiv{\@arabic\c@enumiv}}%
18353 \sloppy\clubpenalty4000\widowpenalty4000%
18354 \sfcode`\.\@m}
18355 {\def\@noitemerr
18356 {\@latex@warning{Empty `thebibliography' environment}}}%
18357 \endlist}
18358 \renewcommand*\thesection{\thechapter\@SepMark\@arabic\c@section}
18359 \renewcommand*\thesubsection{\thesection\@SepMark\@arabic\c@subsection}
18360 \renewcommand*\thesubsubsection{\thesubsection\@SepMark\@arabic\c@subsubsection}
18361 \renewcommand*\theparagraph{\thesubsubsection\@SepMark\@arabic\c@paragraph}
18362 \renewcommand*\thesubparagraph{\theparagraph\@SepMark\@arabic\c@subparagraph}
18363 \renewcommand*\theequation{%
18364 \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@equation}
18365 \renewcommand*\thefigure{%
18366 \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@figure}
18367 \renewcommand*\thetable{%
18368 \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@table}
18369 \if@titlepage
18370 \renewcommand*\TitleFont{\rmfamily}
18371 \renewcommand*\maketitle{%
18372 \begin{titlepage}%
18373 \let\footnotesize\small
18374 \let\right@footnoterule\relax
18375 \let\left@footnoterule\relax
18376 \let\textwidth\footnoterule\relax
18377 \let \footnote \thanks
18378 \long\def\@makefnmark##1{\parindent\z@
18379 \def\labelitemi{\textendash}\@revlabeltrue
18380 \leavevmode\@textsuperscript{\@thefnmark}\kern1em\relax ##1}
18381 \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
18382 \if@compatibility\setcounter{page}{0}\fi
18383 \null\vfil
18384 \vskip 60\p@
18385 \begin{center}%
18386 \TitleFont
18387 {\LARGE \def\\{\penalty -\@M}
18388 \if@allcaps
18389 \expandafter\uc@nothanks\@title\thanks\relax
18390 \else
18391 \@title
18392 \fi\par}%
18393 \vskip 3em%
18394 {\large
18395 \lineskip .75em \parindent\z@
18396 \begin{tabular}[t]{c}%

```



```

18397         \if@allcaps
18398             \expandafter\uc@authornothanks \@author\and\relax
18399         \else
18400             \@author
18401         \fi
18402     \end{tabular}\par}%
18403 \vskip 1.5em%
18404 {\large
18405     \if@allcaps
18406         \uppercase\expandafter{\@date}%
18407     \else
18408         \@date
18409     \fi\par}%
18410 \end{center}\par
18411 \@thanks
18412 \vfil\null
18413 \end{titlepage}%
18414 \setcounter{footnote}{0}%
18415 \global\let\thanks\relax
18416 \global\let\maketitle\relax
18417 \global\let\@thanks\@empty
18418 \global\let\@author\@empty
18419 \global\let\@title\@empty
18420 \global\let\@date\@empty
18421 \global\let\title\relax
18422 \global\let\author\relax
18423 \global\let\date\relax
18424 \global\let\and\relax
18425 }
18426 \def\uc@nothanks#1\thanks{\uppercase{#1}\futurelet\@tempa\uc@tx}
18427 \def\uc@authornothanks#1\and{\uc@nothanks#1\thanks\relax
18428     \futurelet\@tempa\uc@ax}%
18429 \def\uc@ax{%
18430     \ifx\@tempa\relax
18431     \else
18432         \andname \and \expandafter\uc@authornothanks
18433     \fi}
18434 \def\uc@tx{\ifx\@tempa\relax
18435     \else \expandafter\uc@ty \fi}
18436 \def\uc@ty#1{\thanks{#1}\uc@nothanks}
18437 \else
18438 \renewcommand*\maketitle{\par
18439     \begingroup
18440         \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
18441         \def\@makefnmark{\rlap{%
18442             \@textsuperscript{\normalfont\@thefnmark}}}%
18443         \long\def\@makefntext{\@xmakefntext{%
18444             \@textsuperscript{\normalfont\@thefnmark}}}%
18445         \if@twocolumn
18446             \ifnum \col@number=\@ne
18447                 \@maketitle
18448             \else
18449                 \twocolumn[\@maketitle]%
18450             \fi

```



```

18451 \else
18452 \newpage
18453 \global\@topnum\z@
18454 \@maketitle
18455 \fi
18456 \thispagestyle{plain}\@thanks
18457 \endgroup
18458 \setcounter{footnote}{0}%
18459 \global\let\thanks\relax
18460 \global\let\maketitle\relax
18461 \global\let\@maketitle\relax
18462 \global\let\@thanks\@empty
18463 \global\let\@author\@empty
18464 \global\let\@title\@empty
18465 \global\let\@date\@empty
18466 \global\let\title\relax
18467 \global\let\author\relax
18468 \global\let\date\relax
18469 \global\let\and\relax
18470 }
18471 \def\@maketitle{%
18472 \newpage
18473 \null
18474 \vskip 2em%
18475 \begin{center}%
18476 \let \footnote \thanks
18477 {\LARGE \TitleFont \@title \par}%
18478 \vskip 1.5em%
18479 {\large \TitleFont
18480 \lineskip .5em%
18481 \begin{tabular}[t]{c}%
18482 \@author
18483 \end{tabular}\par}%
18484 \vskip 1em%
18485 {\large \TitleFont \@date}%
18486 \end{center}%
18487 \par
18488 \vskip 1.5em}
18489 \fi

```

### 133 File rapport3-xetex-bidi.def

```

18490 \ProvidesFile{rapport3-xetex-bidi.def}[2017/06/09 v0.6 bidi adaptations for rapport3 class f
18491 \renewenvironment{theindex}{%
18492 \if@twocolumn
18493 \@restonecolfalse
18494 \else
18495 \@restonecoltrue
18496 \fi
18497 \columnseprule \z@
18498 \columnsep 35\p@
18499 \twocolumn[\@makeschapterhead{\indexname}]%
18500 \mkboth{\MakeUppercase{\indexname}}{\MakeUppercase{\indexname}}%
18501 \thispagestyle{plain}\parindent\z@

```



```

18502 \parskip\z@ \@plus .3\p@\relax
18503 \let\item\@idxitem
18504 }{%
18505 \if@restonecol\onecolumn\else\clearpage\fi}
18506 \if@titlepage
18507 \renewcommand*\TitleFont{\rmfamily}
18508 \renewcommand*\maketitle{%
18509 \begin{titlepage}%
18510 \let\footnotesize\small
18511 \let\right@footnoterule\relax
18512 \let\left@footnoterule\relax
18513 \let\textwidth\footnoterule\relax
18514 \let \footnote \thanks
18515 \let \LTRfootnote \LTRthanks
18516 \let \RTLfootnote \RTLthanks
18517 \long\def\@makefnctext##1{\parindent\z@
18518 \def\labelitemi{\textendash}\@revlabeltrue
18519 \leavevmode\@textsuperscript{\@thefnmark}\kern1em\relax ##1}
18520 \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
18521 \if@compatibility\setcounter{page}{0}\fi
18522 \null\vfil
18523 \vskip 60\p@
18524 \begin{center}%
18525 \TitleFont
18526 {\LARGE \def\\{\penalty -\@M}
18527 \if@allcaps
18528 \expandafter\uc@nothanks\@title\thanks\relax
18529 \else
18530 \@title
18531 \fi\par}%
18532 \vskip 3em%
18533 {\large
18534 \lineskip .75em \parindent\z@
18535 \begin{tabular}[t]{c}%
18536 \if@allcaps
18537 \expandafter\uc@authornothanks\@author\and\relax
18538 \else
18539 \@author
18540 \fi
18541 \end{tabular}\par}%
18542 \vskip 1.5em%
18543 {\large
18544 \if@allcaps
18545 \uppercase\expandafter{\@date}%
18546 \else
18547 \@date
18548 \fi\par}%
18549 \end{center}\par
18550 \@thanks
18551 \vfil\null
18552 \end{titlepage}%
18553 \setcounter{footnote}{0}%
18554 \global\let\thanks\relax
18555 \global\let\LTRthanks\relax

```



```

18556 \global\let\RTLthanks\relax
18557 \global\let\maketitle\relax
18558 \global\let\@thanks\@empty
18559 \global\let\@author\@empty
18560 \global\let\@title\@empty
18561 \global\let\@date\@empty
18562 \global\let\title\relax
18563 \global\let\author\relax
18564 \global\let\date\relax
18565 \global\let\and\relax
18566 }
18567 \def\uc@nothanks#1\thanks{\uppercase{#1}\futurelet\@tempa\uc@tx}
18568 \def\uc@authornothanks#1\and{\uc@nothanks#1\thanks\relax
18569 \futurelet\@tempa\uc@ax}
18570 \def\uc@ax{%
18571 \ifx\@tempa\relax
18572 \else
18573 \ \andname \ \expandafter\uc@authornothanks
18574 \fi}
18575 \def\uc@tx{\ifx\@tempa\relax
18576 \else \expandafter\uc@ty \fi}
18577 \def\uc@ty#1{\thanks{#1}\uc@nothanks}
18578 \else
18579 \renewcommand*\maketitle{\par
18580 \begingroup
18581 \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
18582 \def\@makefnmark{\rlap{%
18583 \@textsuperscript{\normalfont\@thefnmark}}}%
18584 \long\def\@makefntext{\@xmakefntext{%
18585 \@textsuperscript{\normalfont\@thefnmark}}}%
18586 \if@twocolumn
18587 \ifnum \col@number=\@one
18588 \@maketitle
18589 \else
18590 \twocolumn[\@maketitle]%
18591 \fi
18592 \else
18593 \newpage
18594 \global\@topnum\z@
18595 \@maketitle
18596 \fi
18597 \thispagestyle{plain}\@thanks
18598 \endgroup
18599 \setcounter{footnote}{0}%
18600 \global\let\thanks\relax
18601 \global\let\LTRthanks\relax
18602 \global\let\RTLthanks\relax
18603 \global\let\maketitle\relax
18604 \global\let\@maketitle\relax
18605 \global\let\@thanks\@empty
18606 \global\let\@author\@empty
18607 \global\let\@title\@empty
18608 \global\let\@date\@empty
18609 \global\let\title\relax

```



```

18610 \global\let\author\relax
18611 \global\let\date\relax
18612 \global\let\and\relax
18613 }
18614 \def\@maketitle{%
18615 \newpage
18616 \null
18617 \vskip 2em%
18618 \if@titlecentered
18619 \begin{center}%
18620 \let \footnote \thanks
18621 \let \LTRfootnote \LTRthanks
18622 \let \RTLfootnote \RTLthanks
18623 {\LARGE \TitleFont \@title \par}%
18624 \vskip 1.5em%
18625 {\large \TitleFont
18626 \lineskip .5em%
18627 \begin{tabular}[t]{c}%
18628 \@author
18629 \end{tabular}\par}%
18630 \vskip 1em%
18631 {\large \TitleFont \@date}%
18632 \end{center}%
18633 \else
18634 {\LARGE \TitleFont \head@style \@title \par} \vskip 1.5em
18635 {\large \TitleFont \lineskip .5em \tabcolsep\z@
18636 \def\and{%%} \begin{tabular} has already started
18637 \end{tabular}\hskip 1em plus .17fil
18638 \ifRTL\begin{tabular}[t]{r}\else\begin{tabular}[t]{l}\fi}% \end{tabular}
18639 \ifRTL\begin{tabular}[t]{r}\else\begin{tabular}[t]{l}\fi\@author\end{tabular}%
18640 \vskip 1em {\large \TitleFont \@date}%
18641 \fi
18642 \par
18643 \vskip 1.5em}
18644 \fi
18645 \renewcommand*\@regtocline[3]{%
18646 \ifnum #1>\c@tocdepth
18647 \else
18648 \vskip\z@\@plus.2\p@
18649 {\hangindent\z@ \@afterindenttrue \interlinepenalty\@M
18650 \ifRTL\righskip\else\leftskip\fi\unitindent
18651 \ifRTL\leftskip\else\righskip\fi\unitindent\@plus 1fil
18652 \parfillskip\z@
18653 \@tempdima\unitindent
18654 \parindent\z@
18655 \leavevmode
18656 \hbox{}\hskip -\ifRTL\righskip\else\leftskip\fi\relax#2\nobreak
18657 \hskip 1em \nobreak{\slshape #3}\par
18658 }%
18659 \fi}
18660 \if@oldtoc
18661 \renewcommand*\l@part[2]{%
18662 \ifnum \c@tocdepth >-2\relax
18663 \addpenalty{-\@highpenalty}%

```



```

18664 \addvspace{2.25em \@plus\p}%
18665 \begingroup
18666 \setlength\@tempdima{3em}%
18667 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
18668 \parfillskip -\@pnumwidth
18669 {\leavevmode
18670 \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
18671 \nobreak
18672 \global\@nobreaktrue
18673 \everypar{\global\@nobreakfalse\everypar{}}%
18674 \endgroup
18675 \fi}
18676 \else
18677 \renewcommand*\l@part{%
18678 \ifnum \c@tocdepth >-2\relax
18679 \addpenalty{-\@highpenalty}%
18680 \addvspace{2.25em \@plus \p}%
18681 \@regtocline{0}%
18682 \fi}
18683 \fi
18684 \if@oldtoc
18685 \renewcommand*\l@chapter[2]{%
18686 \addpenalty{-\@highpenalty}%
18687 \vskip 1.0em \@plus\p@
18688 \setlength\@tempdima{1.5em}%
18689 \begingroup
18690 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
18691 \parfillskip -\@pnumwidth
18692 \leavevmode \bfseries
18693 \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
18694 \hskip -\if@RTL\rightskip\else\leftskip\fi
18695 #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
18696 \penalty\@highpenalty
18697 \endgroup}
18698 \else
18699 \renewcommand*\l@chapter{\@regtocline{0}}
18700 \fi
18701 \renewcommand*\head@style{%
18702 \interlinepenalty \@M
18703 \hyphenpenalty=\@M \exhyphenpenalty=\@M
18704 \if@RTL\leftskip\else\rightskip\fi=0cm plus .7\hsize\relax}
18705 \if@titlepage
18706 \renewenvironment{abstract}{%
18707 \titlepage
18708 \null\vfil
18709 \section*{\SectFont\abstractname}%
18710 \noindent\ignorespaces}
18711 {\par\vfil\null\endtitlepage}
18712 \else
18713 \renewenvironment{abstract}{%
18714 \if@twocolumn
18715 \section*{\abstractname}%
18716 \else
18717 \bgroup\if@RTL\leftskip\else\rightskip\fi=\unitindent

```



```

18718      \section*{\small\SectFont\abstractname}%
18719      \noindent\ignorespaces
18720      \fi}
18721      {\if@twocolumn\else\par\egroup\fi}
18722 \fi
18723 \renewcommand*\thesection{\thechapter\@SepMark\@arabic\c@section}
18724 \renewcommand*\thesubsection{\thesection\@SepMark\@arabic\c@subsection}
18725 \renewcommand*\thesubsubsection{\thesubsection\@SepMark\@arabic\c@subsubsection}
18726 \renewcommand*\theparagraph{\thesubsubsection\@SepMark\@arabic\c@paragraph}
18727 \renewcommand*\thesubparagraph{\theparagraph\@SepMark\@arabic\c@subparagraph}
18728 \renewcommand*\thefigure{%
18729   \ifnum\c@chapter>\z@\thechapter\@SepMark\fi\@arabic\c@figure}
18730 \renewcommand*\thetable{%
18731   \ifnum\c@chapter>\z@\thechapter\@SepMark\fi\@arabic\c@table}
18732 \renewcommand*\theequation{%
18733   \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@equation}
18734 \renewenvironment{thebibliography}[1]
18735   {\chapter*{\bibname}%
18736     \mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}%
18737     \ifRTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
18738     \bidi@thebibliography@font@hook%
18739     \list{\@biblabel{\@arabic\c@enumiv}}%
18740       {\settowidth\labelwidth{\@biblabel{#1}}%
18741        \leftmargin\labelwidth
18742        \advance\leftmargin\labelsep
18743        \openbib@code
18744        \usecounter{enumiv}%
18745        \let\p@enumiv\@empty
18746        \renewcommand*\theenumiv{\@arabic\c@enumiv}}%
18747     \sloppy\clubpenalty4000\widowpenalty4000%
18748     \sfcode`. \m}
18749   {\def\@noitemerr
18750     {\@latex@warning{Empty `thebibliography' environment}}}%
18751   \endlist}
18752 \renewcommand*\left@footnoterule{%
18753   \kern-3\p@
18754   \kern.5\baselineskip
18755   \hrule\@width\unitindent
18756   \kern.4\baselineskip
18757 }
18758 \renewcommand*\right@footnoterule{%
18759   \kern-3\p@
18760   \kern.5\baselineskip
18761   \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\unitindent\relax \hrulefill }
18762   \kern.4\baselineskip}
18763 \renewcommand*\head@style{%
18764   \interlinepenalty \M
18765   \hyphenpenalty=\M \exhyphenpenalty=\M
18766   \ifRTL\leftskip\else\rightskip\fi=0cm plus .7\hsize\relax}

```

## 134 File refrep-xetex-bidi.def

```

18767 \ProvidesFile{refrep-xetex-bidi.def}[2017/06/09 v0.5 bidi adaptations for refrep class for X
18768 \if@titlepage

```



```

18769 \renewcommand\maketitle{\begin{titlepage}%
18770 \let\footnotesize\small
18771 \let\right@footnoterule\relax
18772 \let\left@footnoterule\relax
18773 \let\textwidth@footnoterule\relax
18774 \let\footnote\thanks
18775 \let\LTRfootnote\LTRthanks
18776 \let\RTLfootnote\RTLthanks
18777 \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
18778 \def\@makefnmark%
18779     {\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
18780 \long\def\@makefnmark##1{%
18781     \setpar{\@par
18782         \@tempdima = \hspace
18783         \advance\@tempdima -1em
18784         \parshape \cne 1em \@tempdima}%
18785     \par\parindent 1em \noindent
18786     \hb@xt@\z@{\hss\@textsuperscript{\normalfont\@thefnmark}\,}##1}
18787 \null\vfil
18788 \vskip 60\p@
18789 \begin{center}%
18790     {\LARGE \@title \par}%
18791     \vskip 3em%
18792     {\large
18793         \lineskip .75em%
18794         \begin{tabular}[t]{c}%
18795             \@author
18796         \end{tabular}\par}%
18797     \vskip 1.5em%
18798     {\large \@date \par}%           % Set date in \large size.
18799 \end{center}\par
18800 \@thanks
18801 \vfil\null
18802 \end{titlepage}%
18803 \setcounter{footnote}{0}%
18804 \global\let\thanks\relax
18805 \global\let\LTRthanks\relax
18806 \global\let\RTLthanks\relax
18807 \global\let\maketitle\relax
18808 \global\let\@thanks\@empty
18809 \global\let\@author\@empty
18810 \global\let\@date\@empty
18811 \global\let\@title\@empty
18812 \global\let\title\relax
18813 \global\let\author\relax
18814 \global\let\date\relax
18815 \global\let\and\relax
18816 }
18817 \else
18818 \renewcommand\maketitle{\par
18819     \begingroup
18820     \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
18821     \def\@makefnmark%
18822         {\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%

```



```

18823 \long\def\@makefntext##1{%
18824 \setpar{\@par
18825 \tempdima = \hsize
18826 \advance\tempdima -1em
18827 \parshape \@ne 1em \tempdima}%
18828 \par\parindent 1em \noindent
18829 \hb@xt@\z@{\hss\@textsuperscript{\normalfont\@thefnmark}\,}##1}
18830 \if@twocolumn
18831 \ifnum \col@number=\@ne
18832 \maketitle
18833 \else
18834 \twocolumn[\maketitle]%
18835 \fi
18836 \else
18837 \newpage
18838 \global\@topnum\z@ % Prevents figures from going at top of page.
18839 \maketitle
18840 \fi
18841 \thispagestyle{empty}\@thanks
18842 \endgroup
18843 \setcounter{footnote}{0}%
18844 \global\let\thanks\relax
18845 \global\let\LTRthanks\relax
18846 \global\let\RTLthanks\relax
18847 \global\let\maketitle\relax
18848 \global\let\@maketitle\relax
18849 \global\let\@thanks\@empty
18850 \global\let\@author\@empty
18851 \global\let\@date\@empty
18852 \global\let\@title\@empty
18853 \global\let\title\relax
18854 \global\let\author\relax
18855 \global\let\date\relax
18856 \global\let\and\relax
18857 }
18858 \def\@maketitle{%
18859 \newpage
18860 \null
18861 \longthickrule\vskip1.5em%
18862 \let \footnote \thanks
18863 \let \LTRfootnote \LTRthanks
18864 \let \RTLfootnote \RTLthanks
18865 {\secshape \parskip\z@ \parindent\z@
18866 \Large\bfseries \@title \par}%
18867 \vskip1.5em\longthickrule\vskip1.5em%
18868 {\normalsize
18869 \lineskip .5em%
18870 \begin{flushright}%
18871 {\slshape\@author\par}
18872 \vskip 1em%
18873 {\@date}%
18874 \end{flushright}\par}%
18875 \vskip 1.5em}
18876 \fi

```



```

18877 \renewcommand*\l@part[2]{%
18878   \ifnum \c@tocdepth >-2\relax
18879     \addpenalty{-\@highpenalty}%
18880     \addvspace{2.25em \@plus\p@}%
18881     \begingroup
18882       \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
18883       \parfillskip -\@pnumwidth
18884       {\leavevmode
18885         \large \bfseries #1\hfil \hbox to\@pnumwidth{\hss #2}}\par
18886       \nobreak
18887       \global\@nobreaktrue
18888       \everypar{\global\@nobreakfalse\everypar{}}%
18889     \endgroup
18890   \fi}
18891 \renewcommand*\l@chapter[2]{%
18892   \ifnum \c@tocdepth >\m@ne
18893     \addpenalty{-\@highpenalty}%
18894     \vskip 1.0em \@plus\p@
18895     \setlength\@tempdima{1.5em}%
18896     \begingroup
18897       \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
18898       \parfillskip -\@pnumwidth
18899       \leavevmode \bfseries
18900       \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
18901       \hskip -\if@RTL\rightskip\else\leftskip\fi
18902       #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
18903       \penalty\@highpenalty
18904     \endgroup
18905   \fi}
18906 \renewcommand\secshape{\if@RTL\rightskip\else\leftskip\fi=-\leftmarginwidth%
18907   \if@RTL\leftskip\else\rightskip\fi=\@flushglue%
18908   \hyphenpenalty=2000}
18909 \renewcommand\left@footnoterule{%
18910   \kern-3\p@
18911   \hrule\@width.4\columnwidth
18912   \kern 2.6\p@}
18913 \renewcommand\right@footnoterule{%
18914   \kern-3\p@
18915   \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
18916   \kern2.6\p@}
18917 \renewcommand\theequation
18918 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@equation}
18919 \renewcommand\thefigure
18920 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@figure}
18921 \renewcommand\thetable%
18922 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@table}
18923 \renewcommand\thesection {\thechapter\@SepMark\@arabic\c@section}
18924 \renewcommand\thesubsection {\thesection\@SepMark\@arabic\c@subsection}
18925 \renewcommand\thesubsubsection {\thesubsection \@SepMark\@arabic\c@subsubsection}
18926 \renewcommand\theparagraph {\thesubsubsection\@SepMark\@arabic\c@paragraph}
18927 \renewcommand\thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}
18928 \renewenvironment{thebibliography}[1]
18929 {\chapter*{\bibname
18930   \@mkboth{\bibname}{\bibname}}%

```



```

18931 \ifRTL\ifLTRbibitems\@RTLfalse\else\fi\else\ifRTLbibitems\@RTLtrue\else\fi\fi
18932 \bidi@thebibliography@font@hook%
18933 \list{\@biblabel{\@arabic\c@enumiv}}%
18934 {\settowidth\labelwidth{\@biblabel{#1}}%
18935 \leftmargin\labelwidth
18936 \advance\leftmargin\labelsep
18937 \@openbib@code
18938 \usecounter{enumiv}%
18939 \let\p@enumiv\@empty
18940 \renewcommand\theenumiv{\@arabic\c@enumiv}}%
18941 \sloppy
18942 \clubpenalty4000
18943 \@clubpenalty \clubpenalty
18944 \widowpenalty4000%
18945 \sfcode\.\@m}
18946 {\def\@noitemerr
18947 {\@latex@warning{Empty `thebibliography' environment}}}%
18948 \endlist}

```

## 135 File report-xetex-bidi.def

```

18949 \ProvidesFile{report-xetex-bidi.def}[2017/06/09 v0.8 bidi adaptations for standard report cl
18950 \renewenvironment{theindex}
18951 {\if@twocolumn
18952 \@restonecolfalse
18953 \else
18954 \@restonecoltrue
18955 \fi
18956 \columnseprule \z@
18957 \columnsep 35\p@
18958 \twocolumn[\@makeschapterhead{\indexname}}%
18959 \@mkboth{\MakeUppercase\indexname}%
18960 {\MakeUppercase\indexname}%
18961 \thispagestyle{plain}\parindent\z@
18962 \parskip\z@ \@plus .3\p@\relax
18963 \let\item\@idxitem}
18964 {\if@restonecol\onecolumn\else\clearpage\fi}
18965 \if@titlepage
18966 \renewcommand\maketitle{\begin{titlepage}%
18967 \let\footnotesize\small
18968 \let\right@footnoterule\relax
18969 \let\left@footnoterule\relax
18970 \let\textwidth\footnoterule\relax
18971 \let \footnote \thanks
18972 \let \LTRfootnote \LTRthanks
18973 \let \RTLfootnote \RTLthanks
18974 \null\vfil
18975 \vskip 60\p@
18976 \begin{center}%
18977 {\LARGE \@title \par}%
18978 \vskip 3em%
18979 {\large
18980 \lineskip .75em%
18981 \begin{tabular}[t]{c}%

```



```

18982         \@author
18983     \end{tabular}\par}%
18984     \vskip 1.5em%
18985     {\large \@date \par}%           % Set date in \large size.
18986 \end{center}\par
18987 \@thanks
18988 \vfil\null
18989 \end{titlepage}%
18990 \setcounter{footnote}{0}%
18991 \global\let\thanks\relax
18992 \global\let\LTRthanks\relax
18993 \global\let\RTLthanks\relax
18994 \global\let\maketitle\relax
18995 \global\let\@thanks\@empty
18996 \global\let\@author\@empty
18997 \global\let\@date\@empty
18998 \global\let\@title\@empty
18999 \global\let\title\relax
19000 \global\let\author\relax
19001 \global\let\date\relax
19002 \global\let\and\relax
19003 }
19004 \else
19005 \renewcommand\maketitle{\par
19006   \begingroup
19007     \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
19008     \def\@makefnmark{\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
19009     \long\def\@makefntext##1{\parindent 1em\noindent
19010       \hb@xt@1.8em{%
19011         \hss\@textsuperscript{\normalfont\@thefnmark}}##1}%
19012     \if@twocolumn
19013       \ifnum \col@number=\@one
19014         \@maketitle
19015       \else
19016         \twocolumn[\@maketitle]%
19017       \fi
19018     \else
19019       \newpage
19020       \global\@topnum\z@   % Prevents figures from going at top of page.
19021       \@maketitle
19022     \fi
19023     \thispagestyle{plain}\@thanks
19024   \endgroup
19025   \setcounter{footnote}{0}%
19026   \global\let\thanks\relax
19027   \global\let\LTRthanks\relax
19028   \global\let\RTLthanks\relax
19029   \global\let\maketitle\relax
19030   \global\let\@maketitle\relax
19031   \global\let\@thanks\@empty
19032   \global\let\@author\@empty
19033   \global\let\@date\@empty
19034   \global\let\@title\@empty
19035   \global\let\title\relax

```



```

19036 \global\let\author\relax
19037 \global\let\date\relax
19038 \global\let\and\relax
19039 }
19040 \def\@maketitle{%
19041 \newpage
19042 \null
19043 \vskip 2em%
19044 \begin{center}%
19045 \let \footnote \thanks
19046 \let \LTRfootnote \LTRthanks
19047 \let \RTLfootnote \RTLthanks
19048 {\LARGE \@title \par}%
19049 \vskip 1.5em%
19050 {\large
19051 \lineskip .5em%
19052 \begin{tabular}[t]{c}%
19053 \@author
19054 \end{tabular}\par}%
19055 \vskip 1em%
19056 {\large \@date}%
19057 \end{center}%
19058 \par
19059 \vskip 1.5em}
19060 \fi
19061 \renewcommand*\l@part[2]{%
19062 \ifnum \c@tocdepth >-2\relax
19063 \addpenalty{-\@highpenalty}%
19064 \addvspace{2.25em \@plus\p}%
19065 \setlength\@tempdima{3em}%
19066 \begingroup
19067 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
19068 \parfillskip -\@pnumwidth
19069 {\leavevmode
19070 \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
19071 \nobreak
19072 \global\@nobreaktrue
19073 \everypar{\global\@nobreakfalse\everypar{}}%
19074 \endgroup
19075 \fi}
19076 \renewcommand*\l@chapter[2]{%
19077 \ifnum \c@tocdepth >\m@ne
19078 \addpenalty{-\@highpenalty}%
19079 \vskip 1.0em \@plus\p@
19080 \setlength\@tempdima{1.5em}%
19081 \begingroup
19082 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
19083 \parfillskip -\@pnumwidth
19084 \leavevmode \bfseries
19085 \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
19086 \hskip -\if@RTL\rightskip\else\leftskip\fi
19087 #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
19088 \penalty\@highpenalty
19089 \endgroup

```



```

19090 \fi}
19091 \renewcommand\left@footnoterule{%
19092 \kern-3\p@
19093 \hrule\@width.4\columnwidth
19094 \kern2.6\p@}
19095 \renewcommand\right@footnoterule{%
19096 \kern-3\p@
19097 \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
19098 \kern2.6\p@}
19099 \renewcommand\theequation
19100 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@equation}
19101 \renewcommand \thefigure
19102 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@figure}
19103 \renewcommand \thetable
19104 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@table}
19105 \renewcommand \thechapter {\@arabic\c@chapter}
19106 \renewcommand \thesection {\thechapter\@SepMark\@arabic\c@section}
19107 \renewcommand \thesubsection {\thesection\@SepMark\@arabic\c@subsection}
19108 \renewcommand \thesubsubsection{\thesubsection \@SepMark\@arabic\c@subsubsection}
19109 \renewcommand \theparagraph {\thesubsubsection\@SepMark\@arabic\c@paragraph}
19110 \renewcommand \thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}
19111 \def\@makechapterhead#1{%
19112 \vspace*{50\p@}%
19113 {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi \normalfont
19114 \ifnum \c@secnumdepth >\m@ne
19115 \huge\bfseries \@chapapp\space \thechapter
19116 \par\nobreak
19117 \vskip 20\p@
19118 \fi
19119 \interlinepenalty\@M
19120 \Huge \bfseries #1\par\nobreak
19121 \vskip 40\p@
19122 }}
19123 \def\@makeschapterhead#1{%
19124 \vspace*{50\p@}%
19125 {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi
19126 \normalfont
19127 \interlinepenalty\@M
19128 \Huge \bfseries #1\par\nobreak
19129 \vskip 40\p@
19130 }}
19131 \renewenvironment{thebibliography}[1]
19132 {\chapter*{\bibname}%
19133 \@mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}%
19134 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
19135 \bidi@thebibliography@font@hook%
19136 \list{\@biblabel{\@arabic\c@enumiv}}%
19137 {\settowidth\labelwidth{\@biblabel{#1}}%
19138 \leftmargin\labelwidth
19139 \advance\leftmargin\labelsep
19140 \@openbib@code
19141 \usecounter{enumiv}%
19142 \let\p@enumiv\@empty
19143 \renewcommand\theenumiv{\@arabic\c@enumiv}}%

```



```

19144     \sloppy
19145     \clubpenalty4000
19146     \@clubpenalty \clubpenalty
19147     \widowpenalty4000%
19148     \sfcode`.\@m}
19149     {\def\@noitemerr
19150       {\@latex@warning{Empty `thebibliography' environment}}}%
19151     \endlist}

```

## 136 File rotating-xetex-bidi.def

```

19152 \ProvidesFile{rotating-xetex-bidi.def}[2013/05/22 v0.2 bidi adaptations for rotating package]
19153 \def\end@rotfloat{%
19154   \end{minipage}\end{lrbox}%
19155   \stepcounter{r@tfl@t}%
19156   \rot@label{RF\ther@tfl@t}%
19157   \rot@pageref{RF\ther@tfl@t}{\R@@page}%
19158   \edef\@tempa{Adding sideways \@capytype\space on page \R@@page\space}
19159   \rot@mess@toks\expandafter{\@tempa}
19160   \wd\rot@float@box\z@
19161   \ht\rot@float@box\z@
19162   \dp\rot@float@box\z@
19163   \vboxL to \textheight{%
19164     \setkeys{Grot}{units=360}%
19165     \if@rot@twoside
19166       \else
19167         \let\R@@page\rot@LR
19168       \fi
19169       \ifthenelse{\isodd{\R@@page}}{%
19170         \if@rot@twoside
19171           \rot@mess@toks\expandafter{\the\rot@mess@toks (right hand page)}%
19172         \fi
19173         \vfill
19174         \@@line{%
19175           \hskip\rotFPtop
19176           \rotatebox{90}{\box\rot@float@box}%
19177           \hskip\rotFPbot
19178         }%
19179       }{%
19180         \if@rot@twoside
19181           \rot@mess@toks\expandafter{\the\rot@mess@toks (left hand page)}%
19182         \fi
19183         \@@line{%
19184           \hskip\rotFPbot
19185           \rotatebox{-90}{\box\rot@float@box}%
19186           \hskip\rotFPtop
19187         }%
19188         \vfill
19189       }%
19190       \rot@message{\the\rot@mess@toks}
19191     }%
19192   \end@float
19193 }
19194 \let\endsidewaysfigure\end@rotfloat

```



```

19195 \let\endsidewaystable\end@rotfloat
19196 \def\end@rotdblfloat{%
19197   \end{minipage}\end{lrbox}%
19198   \stepcounter{r@tfl@t}%
19199   \rot@label{RF\ther@tfl@t}%
19200   \rot@pageref{RF\ther@tfl@t}{\R@@page}%
19201   \edef\@tempa{Adding sideways \capttype\space on page \R@@page\space}
19202   \rot@mess@toks\expandafter{\@tempa}
19203   \@tempdima\ht\rot@float@box
19204   \advance\@tempdima by \dp\rot@float@box
19205   \wd\rot@float@box\z@
19206   \ht\rot@float@box\z@
19207   \dp\rot@float@box\z@
19208   \vboxL to \textheight{%
19209     \setkeys{Grot}{units=360}%
19210     \if@rot@twoside
19211     \else
19212       \let\R@@page\rot@LR
19213     \fi
19214     \ifthenelse{\isodd{\R@@page}}{%
19215       \ifrot@messages
19216       \if@rot@twoside
19217       \rot@mess@toks\expandafter{\the\rot@mess@toks (right hand page)}%
19218     \fi
19219       \fi
19220       \vfill
19221       \@@line{%
19222         \hskip\rotFPtop
19223         \rotatebox{90}{\box\rot@float@box}%
19224         \hskip\rotFPbot
19225       }%
19226     }{%
19227       \ifrot@messages
19228       \if@rot@twoside
19229       \rot@mess@toks\expandafter{\the\rot@mess@toks (left hand page)}%
19230     \fi
19231       \fi%
19232       \@@line{%
19233         \hskip\rotFPbot
19234         \rotatebox{-90}{\box\rot@float@box}%
19235         \hskip\rotFPtop
19236       }%
19237     \vfill
19238   }%
19239   \rot@message{\the\rot@mess@toks}%
19240 }%
19241 \end@dblfloat
19242 }
19243 \def\turn#1{%
19244   \Grot@setangle{#1}%
19245   \setbox\z@\color@hbox\ifmmode\if@RTL\beginR\fi\else\if@RTL\beginR\fi\fi\ignorespaces}
19246 \def\endturn{%
19247   \ifmmode\if@RTL\endR\fi\else\if@RTL\endR\fi\fi
19248   \unskip\color@endbox

```



```

19249 \Grot@x\z@
19250 \Grot@y\z@
19251 \ifmmode\else\if@RTL\beginL\fi\fi\Grot@box\ifmmode\else\if@RTL\endL\fi\fi
19252 }
19253 \def\rotate#1{%
19254 \Grot@setangle{#1}%
19255 \setbox\z@\color@hbox\ifmmode\if@RTL\beginR\fi\else\if@RTL\beginR\fi\fi\ignorespaces}
19256 \def\endrotate{%
19257 \ifmmode\if@RTL\endR\fi\else\if@RTL\endR\fi\fi
19258 \unskip\color@endbox
19259 \Grot@x\z@
19260 \Grot@y\z@
19261 \wd0\z@\dp0\z@\ht0\z@
19262 \ifmmode\else\if@RTL\beginL\fi\fi\Grot@box\ifmmode\else\if@RTL\endL\fi\fi
19263 }
19264 \def\turnbox#1#2{%
19265 \Grot@setangle{#1}%
19266 \setbox\z@\hbox{\ifmmode\if@RTL\beginR\fi\else\if@RTL\beginR\fi\fi#2\ifmmode\if@RTL\endR\fi\fi}
19267 \Grot@x\z@\Grot@y\z@
19268 \wd0\z@\dp0\z@\ht0\z@
19269 \ifmmode\else\if@RTL\beginL\fi\fi\Grot@box\ifmmode\else\if@RTL\endL\fi\fi
19270 }
19271 \def\sideways{%
19272 \Grot@setangle{90}%
19273 \setbox\z@\color@hbox\ifmmode\if@RTL\beginR\fi\else\if@RTL\beginR\fi\fi\ignorespaces}
19274 \def\endsideways{%
19275 \ifmmode\if@RTL\endR\fi\else\if@RTL\endR\fi\fi
19276 \unskip\color@endbox
19277 \Grot@x\z@
19278 \Grot@y\z@
19279 \ifmmode\else\if@RTL\beginL\fi\fi\Grot@box\ifmmode\else\if@RTL\endL\fi\fi
19280 }

```

## 137 File scrartcl-xetex-bidi.def

```

19281 \ProvidesFile{scrartcl-xetex-bidi.def}[2022/05/27 v1.3 bidi adaptations for scrartcl class f
19282 \newcommand{\scr@saved@LTRfootnotetext}{}
19283 \newcommand{\scr@saved@RTLfootnotetext}{}
19284 \let\scr@saved@footnotetext\@footnotetext
19285 \let\scr@saved@LTRfootnotetext\@LTRfootnotetext
19286 \let\scr@saved@RTLfootnotetext\@RTLfootnotetext
19287 \renewcommand{\@footnotetext}[1]{%
19288 \scr@saved@footnotetext{#1}%
19289 \csname FN@mfp@prepare\endcsname
19290 }
19291 \renewcommand{\@LTRfootnotetext}[1]{%
19292 \scr@saved@LTRfootnotetext{#1}%
19293 \csname FN@mfp@prepare\endcsname
19294 }
19295 \renewcommand{\@RTLfootnotetext}[1]{%
19296 \scr@saved@RTLfootnotetext{#1}%
19297 \csname FN@mfp@prepare\endcsname
19298 }
19299 \renewcommand\deffootnote[4][1]{%

```



```

19300 \expandafter\ifnum\scr@v@is@ge{3.22}\relax
19301 \long\def\@makefntext##1{%
19302   \ExecuteDoHook{footnote/text/begin}%
19303   \raggedfootnote
19304   \if@RTL
19305     \rightskip
19306   \else
19307     \leftskip
19308   \fi
19309   #2
19310   \l@addto@macro\@trivlist{%
19311     \ifnum\@listdepth=\@one
19312       \if@RTL
19313         \advance\rightmargin #2\relax
19314       \else
19315         \advance\leftmargin #2\relax
19316       \fi
19317     \fi
19318   }%
19319   \parindent #3\noindent
19320   \IfArgIsEmpty{#1}{-}{%
19321     \hskip \dimexpr #1-#2\relax
19322   }%
19323   \ftn@font\hbox to \z@{\hss\@makefnmark}##1%
19324   \ExecuteDoHook{footnote/text/end}%
19325 }%
19326 \else
19327   \ClassInfo{\KOMAClassName}{%
19328     Using old \string\@makefntext\space due to compatibility
19329     level\MessageBreak
19330     less than 3.22}%
19331   \long\def\@makefntext##1{%
19332     \setlength{\@tempdimc}{#3}%
19333     \def\@tempa{#1}\ifx\@tempa\@empty
19334       \setpar{\@par
19335         \@tempdima = \hsize
19336         \addtolength{\@tempdima}{-#2}%
19337         \if@RTL
19338           \parshape \@one \z@ \@tempdima
19339         \else
19340           \parshape \@one #2 \@tempdima
19341         \fi}%
19342     \else
19343       \addtolength{\@tempdimc}{#2}%
19344       \addtolength{\@tempdimc}{-#1}%
19345       \setpar{\@par
19346         \@tempdima = \hsize
19347         \addtolength{\@tempdima}{-#1}%
19348         \@tempdimb = \hsize
19349         \addtolength{\@tempdimb}{-#2}%
19350         \if@RTL
19351           \parshape \tw@ \z@ \@tempdima \z@ \@tempdimb
19352         \else
19353           \parshape \tw@ #1 \@tempdima #2 \@tempdimb

```



```

19354         \fi
19355     }%
19356 \fi
19357 \par
19358 \parindent\@tempdimc\noindent
19359 \ftn@font\hbox to \z@{\hss\@makefnmark}##1%
19360 }%
19361 \fi
19362 \def\@makefnmark{\hbox{\ftn@font{#4}}}%
19363 }
19364 \deffootnote[1em]{1.5em}{1em}{\textsuperscript{\thefootnotemark}}
19365 \renewcommand*\left@footnoterule{%
19366 \normalsize\ftn@rule@test@values
19367 \kern-\dimexpr 2.6\p@+\ftn@rule@height\relax
19368 \ifx\@textbottom\relax\else\vskip \z@ \@plus.05fil\fi
19369 {\usekomafont{footnoterule}{%
19370 \hrule \@height\ftn@rule@height \@width\ftn@rule@width}}%
19371 \kern 2.6\p@}
19372 \renewcommand*\right@footnoterule{%
19373 \normalsize\ftn@rule@test@values
19374 \kern-\dimexpr 2.6\p@+\ftn@rule@height\relax
19375 \ifx\@textbottom\relax\else\vskip \z@ \@plus.05fil\fi
19376 {\usekomafont{footnoterule}{%
19377 \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\ftn@rule@width\relax \leavevmode\l
19378 \kern 2.6\p@}
19379 \renewcommand*\maketitle[1][1]{%
19380 \expandafter\ifnum \cscname scr@v@3.12\endcsname>\scr@compatibility\relax
19381 \else
19382 \def\and{%
19383 \end{tabular}%
19384 \hskip 1em \@plus.17fil%
19385 \begin{tabular}[t]{c}%
19386 }%
19387 \fi
19388 \if@titlepage
19389 \begin{titlepage}
19390 \setcounter{page}{%
19391 #1%
19392 }%
19393 \if@titlepageiscoverpage
19394 \edef\tITLEPAGE@restore{%
19395 \noexpand\endgroup
19396 \noexpand\global\noexpand\@colht\the\@colht
19397 \noexpand\global\noexpand\@colroom\the\@colroom
19398 \noexpand\global\vsizethe\vsizethe
19399 \noexpand\global\noexpand\@titlepageiscoverpagefalse
19400 \noexpand\let\noexpand\tITLEPAGE@restore\noexpand\relax
19401 }%
19402 \begingroup
19403 \topmargin=\dimexpr \coverpagetopmargin-1in\relax
19404 \oddsidemargin=\dimexpr \coverpageleftmargin-1in\relax
19405 \evensidemargin=\dimexpr \coverpageleftmargin-1in\relax
19406 \textwidth=\dimexpr
19407 \paperwidth-\coverpageleftmargin-\coverpagerightmargin\relax

```



```

19408      \textheight=\dimexpr
19409      \paperheight-\coverpagetopmargin-\coverpagebottommargin\relax
19410      \headheight=0pt
19411      \headsep=0pt
19412      \footskip=\baselineskip
19413      \@colht=\textheight
19414      \@colroom=\textheight
19415      \vsize=\textheight
19416      \columnwidth=\textwidth
19417      \hsize=\columnwidth
19418      \linewidth=\hsize
19419      \else
19420      \let\tITLEPAGE@restore\relax
19421      \fi
19422      \let\footnotesize\small
19423      \let\right@footnoterule\relax
19424      \let\left@footnoterule\relax
19425      \let\textwidth@footnoterule\relax
19426      \let\footnote\thanks
19427      \let\LTRfootnote\LTRthanks
19428      \let\RTLfootnote\RTLthanks
19429      \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
19430      \let\@oldmakefnmark\@makefnmark
19431      \renewcommand*{\@makefnmark}{\rlap\@oldmakefnmark}%
19432      \ifx\@extratitle\@empty
19433      \ifx\@frontispiece\@empty
19434      \else
19435      \if@twoside\mbox{}\next@tpage\fi
19436      \noindent\@frontispiece\next@tdpage
19437      \fi
19438      \else
19439      \noindent\@extratitle
19440      \ifx\@frontispiece\@empty
19441      \else
19442      \next@tpage
19443      \noindent\@frontispiece
19444      \fi
19445      \next@tdpage
19446      \fi
19447      \setparsizes{\z@}{\z@}{\z@\@plus 1fil}\par@updaterelative
19448      \ifx\@titlehead\@empty \else
19449      \begin{minipage}[t]{\textwidth}%
19450      \usekomafont{titlehead}{\@titlehead\par}%
19451      \end{minipage}\par
19452      \fi
19453      \null\vfill
19454      \begin{center}
19455      \ifx\@subject\@empty \else
19456      {\usekomafont{subject}{\@subject\par}}%
19457      \vskip 3em
19458      \fi
19459      {\usekomafont{title}{\huge \@title\par}}%
19460      \vskip 1em
19461      {\ifx\@subtitle\@empty\else\usekomafont{subtitle}{\@subtitle\par}\fi}%

```



```

19462 \vskip 2em
19463 {%
19464 \usekomafont{author}{%
19465 \lineskip 0.75em
19466 \begin{tabular}[t]{c}
19467 \@author
19468 \end{tabular}\par
19469 }%
19470 }%
19471 \vskip 1.5em
19472 {\usekomafont{date}{\@date \par}}%
19473 \vskip \z@ \@plus3fill
19474 {\usekomafont{publishers}{\@publishers \par}}%
19475 \vskip 3em
19476 \end{center}\par
19477 \@thanks\global\let\@thanks\@empty
19478 \vfill\null
19479 \if@twoside
19480 \@tempwatrue
19481 \expandafter\ifnum \@nameuse{scr@v@3.12}>\scr@compatibility\relax
19482 \else
19483 \ifx\@uppertitleback\@empty\ifx\@lowertitleback\@empty
19484 \@tempwafalse
19485 \fi\fi
19486 \fi
19487 \if@tempwa
19488 \next@tpage
19489 \begin{minipage}[t]{\textwidth}
19490 \@uppertitleback
19491 \end{minipage}\par
19492 \vfill
19493 \begin{minipage}[b]{\textwidth}
19494 \@lowertitleback
19495 \end{minipage}\par
19496 \@thanks\global\let\@thanks\@empty
19497 \fi
19498 \else
19499 \ifx\@uppertitleback\@empty\else
19500 \ClassWarning{\KOMAClassName}{%
19501 non empty \string\uppertitleback\space ignored
19502 by \string\maketitle\MessageBreak
19503 in `twoside=false' mode%
19504 }%
19505 \fi
19506 \ifx\@lowertitleback\@empty\else
19507 \ClassWarning{\KOMAClassName}{%
19508 non empty \string\lowertitleback\space ignored
19509 by \string\maketitle\MessageBreak
19510 in `twoside=false' mode%
19511 }%
19512 \fi
19513 \fi
19514 \ifx\@dedication\@empty
19515 \else

```



```

19516         \next@tdpage\null\vfill
19517         {\centering\usekomafont{dedication}{\@dedication \par}}%
19518         \vskip \z@ \@plus3fill
19519         \@thanks\global\let\@thanks\@empty
19520         \cleardoubleemptypage
19521     \fi
19522     \ifx\titlepage@restore\relax\else\clearpage\titlepage@restore\fi
19523 \end{titlepage}
19524 \else
19525     \par
19526     \@tempcnta=%
19527     #1%
19528     \relax\ifnum\@tempcnta=1\else
19529         \ClassWarning{\KOMAClassName}{%
19530             Optional argument of \string\maketitle\space ignored\MessageBreak
19531             in `titlepage=false' mode%
19532         }%
19533     \fi
19534     \ifx\@uppertitleback\@empty\else
19535         \ClassWarning{\KOMAClassName}{%
19536             non empty \string\uppertitleback\space ignored
19537             by \string\maketitle\MessageBreak
19538             in `titlepage=false' mode%
19539         }%
19540     \fi
19541     \ifx\@lowertitleback\@empty\else
19542         \ClassWarning{\KOMAClassName}{%
19543             non empty \string\lowertitleback\space ignored
19544             by \string\maketitle\MessageBreak
19545             in `titlepage=false' mode%
19546         }%
19547     \fi
19548     \begingroup
19549         \let\titlepage@restore\relax
19550         \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
19551         \let\@oldmakefnmark\@makefnmark
19552         \renewcommand*{\@makefnmark}{\rlap\@oldmakefnmark}%
19553         \next@tdpage
19554         \if@twocolumn
19555             \ifnum \col@number=\@one
19556                 \ifx\@extratitle\@empty
19557                     \ifx\@frontispiece\@empty\else\if@twoside\mbox{}\fi\fi
19558                 \else
19559                     \@makeextratitle
19560                 \fi
19561                 \ifx\@frontispiece\@empty
19562                     \ifx\@extratitle\@empty\else\next@tdpage\fi
19563                 \else
19564                     \next@tdpage
19565                     \@makefrontispiece
19566                     \next@tdpage
19567                 \fi
19568                 \@maketitle
19569     \else

```



```

19570         \ifx\@extratitle\@empty
19571             \ifx\@frontispiece\@empty\else\if@twoside\mbox{}\fi\fi
19572         \else
19573             \twocolumn[\@makeextratitle]%
19574         \fi
19575         \ifx\@frontispiece\@empty
19576             \ifx\@extratitle\@empty\else\next@tdpage\fi
19577         \else
19578             \next@tpage
19579             \twocolumn[\@makefrontispiece]%
19580             \next@tdpage
19581         \fi
19582         \twocolumn[\@maketitle]%
19583     \fi
19584 \else
19585     \ifx\@extratitle\@empty
19586         \ifx\@frontispiece\@empty\else \mbox{}\fi
19587     \else
19588         \@makeextratitle
19589     \fi
19590     \ifx\@frontispiece\@empty
19591         \ifx\@extratitle\@empty\else\next@tdpage\fi
19592     \else
19593         \next@tpage
19594         \@makefrontispiece
19595         \next@tdpage
19596     \fi
19597     \@maketitle
19598 \fi
19599 \ifx\titlepagestyle\@empty\else\thispagestyle{\titlepagestyle}\fi
19600 \@thanks\global\let\@thanks\@empty
19601 \endgroup
19602 \fi
19603 \setcounter{footnote}{0}%
19604 \expandafter\ifnum \csgname scr@v@3.12\endcsname>\scr@compatibility\relax
19605     \let\thanks\relax
19606     \let\LTRthanks\relax
19607     \let\RTLthanks\relax
19608     \let\maketitle\relax
19609     \let\@maketitle\relax
19610     \global\let\@thanks\@empty
19611     \global\let\@author\@empty
19612     \global\let\@date\@empty
19613     \global\let\@title\@empty
19614     \global\let\@subtitle\@empty
19615     \global\let\@extratitle\@empty
19616     \global\let\@frontispiece\@empty
19617     \global\let\@titlehead\@empty
19618     \global\let\@subject\@empty
19619     \global\let\@publishers\@empty
19620     \global\let\@uppertitleback\@empty
19621     \global\let\@lowertitleback\@empty
19622     \global\let\@dedication\@empty
19623     \global\let\author\relax

```



```

19624 \global\let\title\relax
19625 \global\let\extratitle\relax
19626 \global\let\titlehead\relax
19627 \global\let\subject\relax
19628 \global\let\publishers\relax
19629 \global\let\uppertitleback\relax
19630 \global\let\lowertitleback\relax
19631 \global\let\dedication\relax
19632 \global\let\date\relax
19633 \fi
19634 \global\let\and\relax
19635 }%
19636 \def\raggedsection{\if@RTL\raggedleft\else\raggedright\fi}
19637 \def\raggedpart{\if@RTL\raggedleft\else\raggedright\fi}
19638 \renewcommand*{\autodot}{\if@altsecnumformat\@SepMark\fi}
19639 \renewcommand*{\thesubsection}{\thesection\@SepMark\@arabic\c@subsection}
19640 \renewcommand*{\thesubsubsection}{%
19641 \thesubsection\@SepMark\@arabic\c@subsubsection
19642 }
19643 \renewcommand*{\theparagraph}{\thesubsubsection\@SepMark\@arabic\c@paragraph}
19644 \renewcommand*{\thesubparagraph}{%
19645 \theparagraph\@SepMark\@arabic\c@subparagraph
19646 }
19647 \renewenvironment{thebibliography}[1]{%
19648 \if@bib@break@
19649 \bib@beginhook
19650 \else
19651 \bib@heading
19652 \ifx\bibpreamble\relax\else\ifx\bibpreamble\@empty\else
19653 \noindent\bibpreamble\par\nobreak
19654 \fi\fi
19655 \bib@beginhook
19656 \bib@before@hook
19657 \fi
19658 \renewcommand{\BreakBibliography}[1]{%
19659 \@bib@break
19660 \end{thebibliography}%
19661 \begingroup ##1\endgroup
19662 \begin{thebibliography}{#1}
19663 }%
19664 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
19665 \bidi@thebibliography@font@hook%
19666 \list{%
19667 \@biblabel{\@arabic\c@enumiv}%
19668 }{%
19669 \settowidth\labelwidth{\@biblabel{#1}}%
19670 \leftmargin\labelwidth
19671 \advance\leftmargin\labelsep
19672 \@openbib@code
19673 \if@bib@break@
19674 \edef\@tempa{%
19675 \noexpand\usecounter{enumiv}%
19676 \noexpand\setcounter{enumiv}{\the\c@enumiv}%
19677 }\@tempa

```



```

19678     \no@bib@break
19679     \else
19680         \usecounter{enumiv}%
19681     \fi
19682     \let\p@enumiv\@empty
19683     \renewcommand*\theenumiv{\@arabic\c@enumiv}%
19684 }%
19685 \sloppy\clubpenalty4000 \widowpenalty4000
19686 \sfcode`\.\@m
19687 }{%
19688 \if@bib@break@
19689     \def\@noitemerr{%
19690         \@latex@warning{%
19691             \string\BreakBibliography\space at begin of `thebibliography'
19692             environment\MessageBreak
19693             or following \string\BreakBibliography}%
19694     }%
19695 \else
19696     \def\@noitemerr{%
19697         \@latex@warning{%
19698             Empty `thebibliography' environment or
19699             \string\BreakBibliography\MessageBreak
19700             before end of `thebibliography' environment}%
19701     }%
19702 \fi
19703 \endlist
19704 \if@bib@break@
19705 \else
19706     \bib@after@hook
19707     \let\bib@before@hook\@empty
19708     \let\bib@after@hook\@empty
19709 \fi
19710 \bib@endhook
19711 }
19712 \renewcommand*\raggeddictum{\if@RTL\raggedright\else\raggedleft\fi}
19713 \renewcommand*\raggeddictumtext{\if@RTL\raggedleft\else\raggedright\fi}
19714 \renewcommand*\raggeddictumauthor{\if@RTL\raggedright\else\raggedleft\fi}
19715 \renewcommand\marginline[1]{%
19716     \marginpar[\if@RTL\raggedright\else\raggedleft\fi{#1}]{\if@RTL\raggedleft\else\raggedright
19717 }
19718 \renewcommand{\@makecaption}[3]{%
19719     \cap@margin
19720     \begingroup
19721         \ifonelinecaptions
19722             \def\stepcounter##1{\advance\value{##1}\@ne}%
19723             \let\refstepcounter\stepcounter
19724             \let\label\@gobble
19725             \let\@footnotetext=\@gobble
19726             \let\@LTRfootnotetext=\@gobble
19727             \let\@RTLfootnotetext=\@gobble
19728             \let\hypertarget\@gobbletwo
19729             \edef\@xnewline{%
19730                 \unexpanded{\ClassInfo{\KOMAClassName}}{%
19731                     Workaround for not recommended usage of \string\ or\MessageBreak

```



```

19732         \string\newline in caption text
19733     }%
19734     \hspace*{\linewidth}\hspace{1sp}%
19735 }%
19736 \unexpanded\expandafter{\@xnewline}%
19737 }%
19738 \edef\@xcentercr{%
19739     \unexpanded{\ClassInfo{\KOMAClassName}{%
19740         Workaround for not recommended usage of \string\ or\MessageBreak
19741         \string\newline in caption text
19742     }}%
19743     \hspace*{\linewidth}\hspace{1sp}%
19744 }%
19745 \unexpanded\expandafter{\@xcentercr}%
19746 }%
19747 \settowidth{\@tempdima}{\scr@makesinglelinecaption{#1}{#2}{#3}}%
19748 \ifdim\@tempdima>\cap@width
19749     \aftergroup\scr@makemultilinecaption
19750 \else
19751     \aftergroup\scr@makesinglelinecaption
19752 \fi
19753 \else
19754     \aftergroup\scr@makemultilinecaption
19755 \fi
19756 \endgroup
19757 {#1}{#2}{#3}%
19758 }
19759 \renewcommand{\scr@makesinglelinecaption}[3]{%
19760     {%
19761         \usefontofkomafont{caption}{%
19762             \hb@xt@{\hspace{0pt}}%
19763             \cap@left
19764             \if@RTL
19765                 \beginR
19766             \fi
19767             \scr@makesinglelinecaption{#1}{#2}{#3}%
19768             \if@RTL
19769                 \endR
19770             \fi
19771             \cap@right
19772         }\par\kern\dp\strutbox%
19773     }%
19774 }\kern-\dp\strutbox
19775 }
19776 \renewcommand{\@makecaption}[2]{%
19777     \if@captionabove
19778         \vskip\belowcaptionskip
19779     \else
19780         \vskip\abovecaptionskip
19781     \fi
19782     \@makecaption\@firstofone{#1}{#2}%
19783     \if@captionabove
19784         \vskip\abovecaptionskip
19785     \else

```



```

19786 \vskip\belowcaptionskip
19787 \fi
19788 }
19789
19790 \renewcommand{\scr@makesinglelinecaption}[3]{%
19791   {\usekomafont{caption}{\strut\ignorespaces
19792     #1{\usekomafont{captionlabel}{#2\captionformat}}}%
19793     \ignorespaces #3\unskip}}%
19794 }
19795
19796 \renewcommand{\scr@makemultilinecaption}[3]{%
19797   {%
19798     \usefontofkomafont{caption}{%
19799       \hb@xt@{\hsize{%
19800         \cap@left
19801         \vbox{\hsize\cap@width\linewidth\hsize
19802           \scr@ifundefinedorrelax{@captive}{%
19803             \ClassWarning{\KOMAClassName}{%
19804               `\'string\caption' outside float.\MessageBreak
19805               Seems you are using `\'string\caption' outside a
19806               float.\MessageBreak
19807               Maybe you are using a package that uses
19808               `\'string\@makecaption'\MessageBreak
19809               without setting `\'string\@captive' before.\MessageBreak
19810               Because I cannot detect the caption type, I'm using\MessageBreak
19811               the empty one.%
19812             }%
19813             \let\@captive\@empty
19814           }}%
19815           \scr@ifundefinedorrelax{ragged\@captive caption}{\raggedcaption}{%
19816             \@nameuse{ragged\@captive caption}%
19817           }%
19818           \ifdofullc@p
19819             \@hangfrom{%
19820               \strut
19821               \scr@smashdp{%
19822                 #1{%
19823                   \usekomafont{caption}{%
19824                     \usekomafont{captionlabel}{#2\captionformat}%
19825                   }%
19826                 }%
19827               }%
19828             }%
19829             {\usekomafont{caption}{#3\scr@endstrut}}\par}%
19830           \else
19831             \ifdim\cap@indent<\z@
19832               \strut
19833               #1{%
19834                 {\usekomafont{caption}{%
19835                   \usekomafont{captionlabel}{#2\captionformat}%
19836                 }%
19837               }\par}%
19838             \noindent{\usekomafont{caption}{%
19839               \hspace*{-\cap@indent}#3\scr@endstrut

```



```

19840     }}\par}%
19841   \else
19842     \if@capbreak
19843       \strut
19844       #1{%
19845         {\usekomafont{caption}{%
19846           \usekomafont{captionlabel}{#2\captionformat}%
19847         }%
19848       }\par}%
19849       \noindent\@hangfrom{\hspace*{\cap@indent}}%
19850       {{\usekomafont{caption}{#3\scr@endstrut}}\par}%
19851   \else
19852     \@hangfrom{\scr@smashdp\strut\hspace*{\cap@indent}}%
19853     {%
19854       \hspace{-\cap@indent}%
19855       \scr@smashdp{%
19856         #1{\usekomafont{caption}{%
19857           \usekomafont{captionlabel}{#2\captionformat}%
19858         }%
19859       }%
19860     }%
19861     {{\usekomafont{caption}{#3\scr@endstrut}}\par}%
19862   }%
19863   \fi
19864 \fi
19865 \fi
19866 }%
19867 \cap@right
19868 }\par\kern\dp\strutbox
19869 }%
19870 }\kern-\dp\strutbox
19871 }
19872
19873 \bidi@AfterFile{longtable-xetex-bidi.def}{%
19874   \if@komalongtable
19875     \renewcommand{\LT@makecaption}[3]{%
19876       \noalign{%
19877         \if@captionabove
19878           \vskip\belowcaptionskip
19879         \else
19880           \vskip\abovecaptionskip
19881         \fi
19882       }%
19883       \LT@mcol\LT@cols c{%
19884         \hbox to\z@{\hss\parbox[t]{\linewidth}{%
19885           \def\@capytype{table}%
19886           \@@makecaption{#1}{#2}{#3}%
19887         \endgraf
19888         \if@captionabove
19889           \vskip\abovecaptionskip
19890         \else
19891           \vskip\belowcaptionskip
19892         \fi
19893       }%

```



```

19894         \hss
19895     }%
19896 }%
19897 }%
19898 \renewcommand*{\scr@LT@array}{}%
19899 \let\scr@LT@array=\LT@array
19900 \renewcommand*{\LT@array}{%
19901     \let\scr@caption=\LT@caption
19902     \def\captionabove{\noalign{\global\@captionabovetrue}%
19903         \scr@caption}%
19904     \def\captionbelow{\noalign{\global\@captionabovetrue}%
19905         \scr@caption}%
19906     \if@tablecaptionabove
19907         \let\LT@caption=\captionabove
19908     \else
19909         \let\LT@caption=\captionbelow
19910     \fi
19911     \scr@LT@array
19912 }%
19913 \ClassInfo{\KOMAClassName}{%
19914     longtable captions redefined%
19915 }%
19916 \fi
19917 }
19918
19919 \CloneTOCEntryStyle{tocline}{part}
19920 \TOCEntryStyleStartInitCode{part}{%
19921     \expandafter\renewcommand%
19922     \csname scr@tso@#1@linefill\endcsname{\hfill}%
19923     \expandafter\renewcommand%
19924     \csname scr@tso@#1@entryformat\endcsname[1]{\usekomafont{partentry}{##1}}%
19925     \expandafter\renewcommand%
19926     \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
19927         {\usekomafont{partentry}{\usekomafont{partentrypagenumber}{##1}}}%
19928     \expandafter\renewcommand\expandafter*%
19929     \csname scr@tso@#1@beforeskip\endcsname{2.25em \@plus\p0}%
19930 }
19931
19932 \CloneTOCEntryStyle{tocline}{section}
19933 \TOCEntryStyleStartInitCode{section}{%
19934     \expandafter\renewcommand%
19935     \csname scr@tso@#1@linefill\endcsname{%
19936         \if@sectionentrywithdots
19937             {\usekomafont{sectionentrydots}{\TOCLineLeaderFill}}\relax
19938         \else
19939             \hfill
19940         \fi
19941     }%
19942     \expandafter\renewcommand%
19943     \csname scr@tso@#1@entryformat\endcsname{\usekomafont{sectionentry}}%
19944     \expandafter\renewcommand%
19945     \csname scr@tso@#1@pagenumberformat\endcsname[1]{\usekomafont{sectionentry}{\usekomafont{
19946     \expandafter\renewcommand\expandafter*%
19947     \csname scr@tso@#1@beforeskip\endcsname{1.0em \@plus\p0}%

```



```

19948 }
19949
19950 \CloneTOCEntryStyle{tocline}{subsection}
19951 \TOCEntryStyleStartInitCode{subsection}{%
19952   \expandafter\renewcommand%
19953   \csname scr@tso@#1@linefill\endcsname{\TOCLineLeaderFill\relax}%
19954   \expandafter\renewcommand%
19955   \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
19956     {\normalfont\normalcolor ##1}}%
19957 }
19958
19959 \CloneTOCEntryStyle{subsection}{default}
19960
19961 \DeclareSectionCommand[%
19962   style=section,%
19963   level=1,%
19964   indent=\z@,%
19965   beforeskip=-3.5ex \@plus -1ex \@minus -.2ex,%
19966   afterskip=2.3ex \@plus .2ex,%
19967   tocstyle=section,%
19968   tocindent=0pt,%
19969   tocnumwidth=1.5em%
19970 ]{section}
19971 \DeclareSectionCommand[%
19972   style=part,%
19973   level=\z@,%
19974   tocstyle=part,%
19975   toclevel=\m@ne,%
19976   tocindent=\z@,%
19977   tocnumwidth=2em%
19978 ]{part}
19979 \DeclareSectionCommand[%
19980   style=section,%
19981   level=2,%
19982   indent=\z@,%
19983   beforeskip=-3.25ex \@plus -1ex \@minus -.2ex,%
19984   afterskip=1.5ex \@plus .2ex,%
19985   tocstyle=subsection,%
19986   tocindent=1.5em,%
19987   tocnumwidth=2.3em%
19988 ]{subsection}
19989 \DeclareSectionCommand[%
19990   style=section,%
19991   level=3,%
19992   indent=\z@,%
19993   beforeskip=-3.25ex \@plus -1ex \@minus -.2ex,%
19994   afterskip=1.5ex \@plus .2ex,%
19995   tocstyle=subsection,%
19996   tocindent=3.8em,%
19997   tocnumwidth=3.2em%
19998 ]{subsubsection}
19999 \DeclareSectionCommand[%
20000   style=section,%
20001   level=4,%

```



```

20002 indent=\z@,%
20003 beforeskip=3.25ex \@plus1ex \@minus.2ex,%
20004 afterskip=-1em,%
20005 tocstyle=subsection,%
20006 tocindentfollows=subsubsection,%
20007 tocindent=7.0em,%
20008 tocnumwidth=4.1em%
20009 ]{paragraph}
20010 \DeclareSectionCommand[%
20011 style=section,%
20012 level=5,%
20013 indent=\scr@parindent,%
20014 beforeskip=3.25ex \@plus1ex \@minus.2ex,%
20015 afterskip=-1em,%
20016 tocstyle=subsection,%
20017 tocindent=10em,%
20018 tocnumwidth=5em%
20019 ]{subparagraph}

```

## 138 File scrbook-xetex-bidi.def

```

20020 \ProvidesFile{scrbook-xetex-bidi.def}[2022/05/27 v1.3 bidi adaptations for scrbook class for
20021 \newcommand{\scr@saved@LTRfootnotetext}{}
20022 \newcommand{\scr@saved@RTLfootnotetext}{}
20023 \let\scr@saved@footnotetext\@footnotetext
20024 \let\scr@saved@LTRfootnotetext\@LTRfootnotetext
20025 \let\scr@saved@RTLfootnotetext\@RTLfootnotetext
20026 \renewcommand{\@footnotetext}[1]{%
20027 \scr@saved@footnotetext{#1}%
20028 \csname FN@mfb@prepare\endcsname
20029 }
20030 \renewcommand{\@LTRfootnotetext}[1]{%
20031 \scr@saved@LTRfootnotetext{#1}%
20032 \csname FN@mfb@prepare\endcsname
20033 }
20034 \renewcommand{\@RTLfootnotetext}[1]{%
20035 \scr@saved@RTLfootnotetext{#1}%
20036 \csname FN@mfb@prepare\endcsname
20037 }
20038 \renewcommand\deffootnote[4][1]{%
20039 \expandafter\ifnum\scr@v@is@ge{3.22}\relax
20040 \long\def\@makefntext##1{%
20041 \ExecuteDoHook{footnote/text/begin}%
20042 \raggedfootnote
20043 \if@RTL
20044 \rightskip
20045 \else
20046 \leftskip
20047 \fi
20048 #2
20049 \l@addto@macro\@trivlist{%
20050 \ifnum\@listdepth=\@one\advance
20051 \if@RTL
20052 \rightmargin #2\relax

```



```

20053         \else
20054             \leftmargin #2\relax
20055         \fi
20056     \fi
20057 }%
20058 \parindent #3\noindent
20059 \IfArgIsEmpty{#1}{}{%
20060     \hskip \dimexpr #1-#2\relax
20061 }%
20062 \ftn@font\hbox to \z@{\hss\@@makefnmark}##1%
20063 \ExecuteDoHook{footnote/text/end}%
20064 }%
20065 \else
20066     \ClassInfo{\KOMAClassName}{%
20067         Using old \string\@makefnmark\space due to compatibility
20068         level\MessageBreak
20069         less than 3.22}%
20070 \long\def\@makefnmark##1{%
20071     \setlength{\@tempdimc}{#3}%
20072     \def\@tempa{#1}\ifx\@tempa\@empty
20073         \@setpar{\@par
20074             \@tempdima = \hsize
20075             \addtolength{\@tempdima}{-#2}%
20076             \if@RTL
20077                 \parshape \@ne \z@ \@tempdima
20078             \else
20079                 \parshape \@ne #2 \@tempdima
20080             \fi
20081         }%
20082     \else
20083         \addtolength{\@tempdimc}{#2}%
20084         \addtolength{\@tempdimc}{-#1}%
20085         \@setpar{\@par
20086             \@tempdima = \hsize
20087             \addtolength{\@tempdima}{-#1}%
20088             \@tempdimb = \hsize
20089             \addtolength{\@tempdimb}{-#2}%
20090             \if@RTL
20091                 \parshape \tw@ \z@ \@tempdima \z@ \@tempdimb
20092             \else
20093                 \parshape \tw@ #1 \@tempdima #2 \@tempdimb
20094             \fi
20095         }%
20096     \fi
20097 \par
20098 \parindent\@tempdimc\noindent
20099 \ftn@font\hbox to \z@{\hss\@@makefnmark}##1%
20100 }%
20101 \fi
20102 \def\@@makefnmark{\hbox{\ftn@font{#4}}}%
20103 }
20104 \deffootnote[1em]{1.5em}{1em}{\textsuperscript{\thefootnotemark}}
20105 \renewcommand*\left@footnoterule{%
20106     \normalsize\ftn@rule@test@values

```



```

20107 \kern-\dimexpr 2.6\p@+\ftn@rule@height\relax
20108 \ifx\@textbottom\relax\else\vskip \z@ \@plus.05fil\fi
20109 {\usekomafont{footnoterule}{%
20110 \hrule \@height\ftn@rule@height \@width\ftn@rule@width}}%
20111 \kern 2.6\p@}
20112 \renewcommand*\right@footnoterule{%
20113 \normalsize\ftn@rule@test@values
20114 \kern-\dimexpr 2.6\p@+\ftn@rule@height\relax
20115 \ifx\@textbottom\relax\else\vskip \z@ \@plus.05fil\fi
20116 {\usekomafont{footnoterule}{%
20117 \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\ftn@rule@width\relax \leavevmode\l
20118 \kern 2.6\p@}
20119 \renewcommand*\maketitle[1][1]{%
20120 \expandafter\ifnum \csname scr@v@3.12\endcsname>\scr@compatibility\relax
20121 \else
20122 \def\and{%
20123 \end{tabular}%
20124 \hskip 1em \@plus.17fil%
20125 \begin{tabular}[t]{c}%
20126 }%
20127 \fi
20128 \if@titlepage
20129 \begin{titlepage}
20130 \setcounter{page}{%
20131 #1%
20132 }%
20133 \if@titlepageiscoverpage
20134 \edef\tITLEPAGE@restore{%
20135 \noexpand\endgroup
20136 \noexpand\global\noexpand\@colht\the\@colht
20137 \noexpand\global\noexpand\@colroom\the\@colroom
20138 \noexpand\global\vsizethe\vsizethe
20139 \noexpand\global\noexpand\@titlepageiscoverpagefalse
20140 \noexpand\let\noexpand\tITLEPAGE@restore\noexpand\relax
20141 }%
20142 \begingroup
20143 \topmargin=\dimexpr \coverpagetopmargin-1in\relax
20144 \oddsidemargin=\dimexpr \coverpageleftmargin-1in\relax
20145 \evensidemargin=\dimexpr \coverpageleftmargin-1in\relax
20146 \textwidth=\dimexpr
20147 \paperwidth-\coverpageleftmargin-\coverpagerightmargin\relax
20148 \textheight=\dimexpr
20149 \paperheight-\coverpagetopmargin-\coverpagebottommargin\relax
20150 \headheight=0pt
20151 \headsep=0pt
20152 \footskip=\baselineskip
20153 \@colht=\textheight
20154 \@colroom=\textheight
20155 \vsizethe\vsizethe
20156 \columnwidth=\textwidth
20157 \hsizethe\columnwidth
20158 \linewidth=\hsizethe
20159 \else
20160 \let\tITLEPAGE@restore\relax

```



```

20161 \fi
20162 \let\footnotesize\small
20163 \let\right@footnoterule\relax
20164 \let\left@footnoterule\relax
20165 \let\textwidth@footnoterule\relax
20166 \let\footnote\thanks
20167 \let\LTRfootnote\LTRthanks
20168 \let\RTLfootnote\RTLthanks
20169 \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
20170 \let\@oldmakefnmark\@makefnmark
20171 \renewcommand*{\@makefnmark}{\rlap{\@oldmakefnmark}}%
20172 \ifx\@extratitle\@empty
20173 \ifx\@frontispiece\@empty
20174 \else
20175 \if@twoside\mbox{}\next@tpage\fi
20176 \noindent\@frontispiece\next@tdpage
20177 \fi
20178 \else
20179 \noindent\@extratitle
20180 \ifx\@frontispiece\@empty
20181 \else
20182 \next@tpage
20183 \noindent\@frontispiece
20184 \fi
20185 \next@tdpage
20186 \fi
20187 \setparsizes{\z@}{\z@}{\z@\@plus 1fil}\par@updaterelative
20188 \ifx\@titlehead\@empty \else
20189 \begin{minipage}[t]{\textwidth}%
20190 \usekomafont{titlehead}{\@titlehead\par}%
20191 \end{minipage}\par
20192 \fi
20193 \null\vfill
20194 \begin{center}
20195 \ifx\@subject\@empty \else
20196 {\usekomafont{subject}{\@subject\par}}%
20197 \vskip 3em
20198 \fi
20199 {\usekomafont{title}{\huge \@title\par}}%
20200 \vskip 1em
20201 {\ifx\@subtitle\@empty\else\usekomafont{subtitle}{\@subtitle\par}\fi}%
20202 \vskip 2em
20203 {%
20204 \usekomafont{author}{%
20205 \lineskip 0.75em
20206 \begin{tabular}[t]{c}
20207 \@author
20208 \end{tabular}\par
20209 }%
20210 }%
20211 \vskip 1.5em
20212 {\usekomafont{date}{\@date \par}}%
20213 \vskip \z@ \@plus3fill
20214 {\usekomafont{publishers}{\@publishers \par}}%

```



```

20215      \vskip 3em
20216      \end{center}\par
20217      \@thanks\global\let\@thanks\@empty
20218      \vfill\null
20219      \if@twoside
20220        \@tempswatrue
20221        \expandafter\ifnum \@nameuse{scr@v@3.12}>\scr@compatibility\relax
20222        \else
20223          \ifx\@uppertitleback\@empty\ifx\@lowertitleback\@empty
20224            \@tempswafalse
20225          \fi\fi
20226        \fi
20227        \if@tempswa
20228          \next@tpage
20229          \begin{minipage}[t]{\textwidth}
20230            \@uppertitleback
20231          \end{minipage}\par
20232          \vfill
20233          \begin{minipage}[b]{\textwidth}
20234            \@lowertitleback
20235          \end{minipage}\par
20236          \@thanks\global\let\@thanks\@empty
20237        \fi
20238      \else
20239        \ifx\@uppertitleback\@empty\else
20240          \ClassWarning{\KOMAClassName}{%
20241            non empty \string\uppertitleback\space ignored
20242            by \string\maketitle\MessageBreak
20243            in `twoside=false' mode%
20244          }%
20245        \fi
20246        \ifx\@lowertitleback\@empty\else
20247          \ClassWarning{\KOMAClassName}{%
20248            non empty \string\lowertitleback\space ignored
20249            by \string\maketitle\MessageBreak
20250            in `twoside=false' mode%
20251          }%
20252        \fi
20253      \fi
20254      \ifx\@dedication\@empty
20255      \else
20256        \next@tdpage\null\vfill
20257        {\centering\usekomafont{dedication}{\@dedication \par}}%
20258        \vskip \z@ \@plus3fill
20259        \@thanks\global\let\@thanks\@empty
20260        \cleardoubleemptypage
20261      \fi
20262      \ifx\titlepage@restore\relax\else\clearpage\titlepage@restore\fi
20263    \end{titlepage}
20264  \else
20265    \par
20266    \@tempcnta=%
20267    #1%
20268    \relax\ifnum\@tempcnta=1\else

```



```

20269 \ClassWarning{\KOMAClassName}{%
20270   Optional argument of \string\maketitle\space ignored\MessageBreak
20271   in `titlepage=false' mode%
20272 }%
20273 \fi
20274 \ifx\@uppertitleback\@empty\else
20275   \ClassWarning{\KOMAClassName}{%
20276     non empty \string\uppertitleback\space ignored
20277     by \string\maketitle\MessageBreak
20278     in `titlepage=false' mode%
20279   }%
20280 \fi
20281 \ifx\@lowertitleback\@empty\else
20282   \ClassWarning{\KOMAClassName}{%
20283     non empty \string\lowertitleback\space ignored
20284     by \string\maketitle\MessageBreak
20285     in `titlepage=false' mode%
20286   }%
20287 \fi
20288 \begingroup
20289   \let\titlepage@restore\relax
20290   \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
20291   \let\@oldmakefnmark\@makefnmark
20292   \renewcommand*{\@makefnmark}{\rlap\@oldmakefnmark}%
20293   \next@tdpage
20294   \if@twocolumn
20295     \ifnum \col@number=\@one
20296       \ifx\@extratitle\@empty
20297         \ifx\@frontispiece\@empty\else\if@twoside\mbox{}\fi\fi
20298       \else
20299         \@makeextratitle
20300       \fi
20301       \ifx\@frontispiece\@empty
20302         \ifx\@extratitle\@empty\else\next@tdpage\fi
20303       \else
20304         \next@tpage
20305         \@makefrontispiece
20306         \next@tdpage
20307       \fi
20308       \@maketitle
20309     \else
20310       \ifx\@extratitle\@empty
20311         \ifx\@frontispiece\@empty\else\if@twoside\mbox{}\fi\fi
20312       \else
20313         \twocolumn[\@makeextratitle]%
20314       \fi
20315       \ifx\@frontispiece\@empty
20316         \ifx\@extratitle\@empty\else\next@tdpage\fi
20317       \else
20318         \next@tpage
20319         \twocolumn[\@makefrontispiece]%
20320         \next@tdpage
20321       \fi
20322       \twocolumn[\@maketitle]%

```



```

20323     \fi
20324   \else
20325     \ifx\@extratitle\@empty
20326       \ifx\@frontispiece\@empty\else \mbox{}\fi
20327     \else
20328       \@makeextratitle
20329     \fi
20330     \ifx\@frontispiece\@empty
20331       \ifx\@extratitle\@empty\else\next@tdpage\fi
20332     \else
20333       \next@tpage
20334       \@makefrontispiece
20335       \next@tdpage
20336     \fi
20337     \@maketitle
20338   \fi
20339   \ifx\titlepagestyle\@empty\else\thispagestyle{\titlepagestyle}\fi
20340   \@thanks\global\let\@thanks\@empty
20341 \endgroup
20342 \fi
20343 \setcounter{footnote}{0}%
20344 \expandafter\ifnum \csname scr@v@3.12\endcsname>\scr@compatibility\relax
20345   \let\thanks\relax
20346   \let\LTRthanks\relax
20347   \let\RTLthanks\relax
20348   \let\maketitle\relax
20349   \let\@maketitle\relax
20350   \global\let\@thanks\@empty
20351   \global\let\@author\@empty
20352   \global\let\@date\@empty
20353   \global\let\@title\@empty
20354   \global\let\@subtitle\@empty
20355   \global\let\@extratitle\@empty
20356   \global\let\@frontispiece\@empty
20357   \global\let\@titlehead\@empty
20358   \global\let\@subject\@empty
20359   \global\let\@publishers\@empty
20360   \global\let\@uppertitleback\@empty
20361   \global\let\@lowertitleback\@empty
20362   \global\let\@dedication\@empty
20363   \global\let\author\relax
20364   \global\let\title\relax
20365   \global\let\extratitle\relax
20366   \global\let\titlehead\relax
20367   \global\let\subject\relax
20368   \global\let\publishers\relax
20369   \global\let\uppertitleback\relax
20370   \global\let\lowertitleback\relax
20371   \global\let\dedication\relax
20372   \global\let\date\relax
20373 \fi
20374 \global\let\and\relax
20375 }%
20376 \def\raggedsection{\if@RTL\raggedleft\else\raggedright\fi}

```



```

20377 \renewcommand*\autodot{\if@altsecnumformat\@SepMark\fi}
20378 \renewcommand*\thesection{%
20379   \expandafter\ifnum\scr@v@is@gt{2.97d}%
20380     \if@mainmatter\thechapter\@SepMark\fi
20381   \else
20382     \thechapter\@SepMark%
20383   \fi
20384   \@arabic\c@section
20385 }
20386 \renewcommand*\thesubsection{\thechapter\@SepMark\@arabic\c@subsection}
20387 \renewcommand*\thesubsubsection{%
20388   \thesubsection\@SepMark\@arabic\c@subsubsection
20389 }
20390 \renewcommand*\theparagraph{\thesubsubsection\@SepMark\@arabic\c@paragraph}
20391 \renewcommand*\thesubparagraph{%
20392   \theparagraph\@SepMark\@arabic\c@subparagraph
20393 }
20394 \expandafter\ifnum\scr@v@is@le{2.97d}%
20395   \renewcommand*\thefigure{\thechapter\@SepMark\@arabic\c@figure}
20396 \fi
20397 \expandafter\ifnum\scr@v@is@le{2.97d}%
20398   \renewcommand*\thetable{\thechapter\@SepMark\@arabic\c@table}
20399 \fi
20400 \renewcommand*\theequation{%
20401   \expandafter\ifnum\scr@v@is@gt{2.97d}%
20402     \if@mainmatter\thechapter\@SepMark\fi
20403   \else
20404     \thechapter\@SepMark%
20405   \fi
20406   \@arabic\c@equation
20407 }
20408 \renewenvironment{thebibliography}[1]{%
20409   \if@bib@break@
20410     \bib@beginhook
20411   \else
20412     \ifx\bibpreamble\relax\else\ifx\bibpreamble\@empty\else
20413       \setchapterpreamble{\bibpreamble}%
20414     \fi\fi
20415     \bib@heading
20416     \bib@beginhook
20417     \bib@before@hook
20418   \fi
20419   \renewcommand{\BreakBibliography}[1]{%
20420     \@bib@break
20421     \end{thebibliography}%
20422     \begingroup ##1\endgroup
20423     \begin{thebibliography}{#1}
20424   }%
20425   \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
20426   \bidi@thebibliography@font@hook%
20427   \list{%
20428     \@biblabel{\@arabic\c@enumiv}%
20429   }{%
20430     \settowidth\labelwidth{\@biblabel{#1}}%

```



```

20431 \leftmargin\labelwidth
20432 \advance\leftmargin\labelsep
20433 \@openbib@code
20434 \if@bib@break@
20435 \edef\@tempa{%
20436 \noexpand\usecounter{enumiv}}%
20437 \noexpand\setcounter{enumiv}{\the\c@enumiv}%
20438 }\@tempa
20439 \no@bib@break
20440 \else
20441 \usecounter{enumiv}%
20442 \fi
20443 \let\p@enumiv\@empty
20444 \renewcommand*\theenumiv{\@arabic\c@enumiv}%
20445 }%
20446 \sloppy\clubpenalty4000 \widowpenalty4000
20447 \sfcode`\.=\@m
20448 }{%
20449 \if@bib@break@
20450 \def\@noitemerr{%
20451 \@latex@warning{%
20452 \string\BreakBibliography\space at begin of `thebibliography'
20453 environment\MessageBreak
20454 or following \string\BreakBibliography}%
20455 }%
20456 \else
20457 \def\@noitemerr{%
20458 \@latex@warning{%
20459 Empty `thebibliography' environment or
20460 \string\BreakBibliography\MessageBreak
20461 before end of `thebibliography' environment}%
20462 }%
20463 \fi
20464 \endlist
20465 \if@bib@break@
20466 \else
20467 \bib@after@hook
20468 \let\bib@before@hook\@empty
20469 \let\bib@after@hook\@empty
20470 \fi
20471 \bib@endhook
20472 }
20473 \renewcommand*\raggeddictum{\if@RTL\raggedright\else\raggedleft\fi}
20474 \renewcommand*\raggeddictumtext{\if@RTL\raggedleft\else\raggedright\fi}
20475 \renewcommand*\raggeddictumauthor{\if@RTL\raggedright\else\raggedleft\fi}
20476 \renewcommand\marginline[1]{%
20477 \marginpar[\if@RTL\raggedright\else\raggedleft\fi{#1}]{\if@RTL\raggedleft\else\raggedright
20478 }
20479 \renewcommand{\@makecaption}[3]{%
20480 \cap@margin
20481 \begingroup
20482 \ifonelinecaptions
20483 \def\stepcounter##1{\advance\value{##1}\@ne}%
20484 \let\refstepcounter\stepcounter

```



```

20485 \let\label\@gobble
20486 \let\@footnotetext=\@gobble
20487 \let\@LTRfootnotetext=\@gobble
20488 \let\@RTLfootnotetext=\@gobble
20489 \let\hypertarget\@gobbletwo
20490 \edef\@xnewline{%
20491   \unexpanded{\ClassInfo{\KOMAClassName}{%
20492     Workaround for not recommended usage of \string\\ or\MessageBreak
20493     \string\newline in caption text
20494   }}%
20495   \hspace*{\linewidth}\hspace{1sp}%
20496 }%
20497 \unexpanded\expandafter{\@xnewline}%
20498 }%
20499 \edef\@xcentercr{%
20500   \unexpanded{\ClassInfo{\KOMAClassName}{%
20501     Workaround for not recommended usage of \string\\ or\MessageBreak
20502     \string\newline in caption text
20503   }}%
20504   \hspace*{\linewidth}\hspace{1sp}%
20505 }%
20506 \unexpanded\expandafter{\@xcentercr}%
20507 }%
20508 \settowidth{\@tempdima}{\scr@makesinglelinecaption{#1}{#2}{#3}}%
20509 \ifdim\@tempdima>\cap@width
20510   \aftergroup\scr@makemultilinecaption
20511 \else
20512   \aftergroup\scr@makesinglelinecaption
20513 \fi
20514 \else
20515   \aftergroup\scr@makemultilinecaption
20516 \fi
20517 \endgroup
20518 {#1}{#2}{#3}%
20519 }
20520 \renewcommand{\scr@makesinglelinecaption}[3]{%
20521   {%
20522     \usefontofkomafont{caption}{%
20523       \hb@xt@{\hsize{%
20524         \cap@left
20525         \if@RTL
20526           \beginR
20527           \fi
20528         \scr@makesinglelinecaption{#1}{#2}{#3}%
20529         \if@RTL
20530           \endR
20531         \fi
20532         \cap@right
20533       }}\par\kern\dp\strutbox%
20534     }%
20535   }\kern-\dp\strutbox
20536 }
20537 \renewcommand{\@makecaption}[2]{%
20538   \if@captionabove

```



```

20539     \vskip\belowcaptionskip
20540   \else
20541     \vskip\abovecaptionskip
20542   \fi
20543   \@@makecaption\@firstofone{#1}{#2}%
20544   \if@captionabove
20545     \vskip\abovecaptionskip
20546   \else
20547     \vskip\belowcaptionskip
20548   \fi
20549 }
20550
20551 \renewcommand{\scr@makesinglelinecaption}[3]{%
20552   {\usekomafont{caption}{\strut\ignorespaces
20553     #1{\usekomafont{captionlabel}{#2\captionformat}}}%
20554     \ignorespaces #3\unskip}}%
20555 }
20556
20557 \renewcommand{\scr@makemultilinecaption}[3]{%
20558   {%
20559     \usefontofkomafont{caption}{%
20560       \hbext@ \hsize{%
20561         \cap@left
20562         \vbox{\hsize\cap@width\linewidth\hsize
20563           \scr@ifundefinedorrelax{@captype}{%
20564             \ClassWarning{\KOMAClassName}{%
20565               `string\caption' outside float.\MessageBreak
20566               Seems you are using `string\caption' outside a
20567               float.\MessageBreak
20568               Maybe you are using a package that uses
20569               `string\@makecaption'\MessageBreak
20570               without setting `string\@captype' before.\MessageBreak
20571               Because I cannot detect the caption type, I'm using\MessageBreak
20572               the empty one.%
20573             }%
20574             \let\@captype\@empty
20575           }{}%
20576           \scr@ifundefinedorrelax{ragged\@captype caption}{\raggedcaption}{%
20577             \@nameuse{ragged\@captype caption}%
20578           }%
20579           \ifdofullc@p
20580             \@hangfrom{%
20581               \strut
20582               \scr@smashdp{%
20583                 #1{%
20584                   \usekomafont{caption}{%
20585                     \usekomafont{captionlabel}{#2\captionformat}%
20586                   }%
20587                 }%
20588               }%
20589             }%
20590             {{\usekomafont{caption}{#3\scr@endstrut}}\par}%
20591           \else
20592             \ifdim\cap@indent<\z@

```



```

20593         \strut
20594         #1{%
20595             {\usekomafont{caption}}{%
20596                 \usekomafont{captionlabel}{#2\captionformat}%
20597             }%
20598         }\par}%
20599         \noindent{{\usekomafont{caption}}{%
20600             \hspace*{-\cap@indent}#3\scr@endstrut
20601         }}\par}%
20602     \else
20603         \if@capbreak
20604             \strut
20605             #1{%
20606                 {\usekomafont{caption}}{%
20607                     \usekomafont{captionlabel}{#2\captionformat}%
20608                 }
20609             }\par}%
20610             \noindent\@hangfrom{\hspace*{\cap@indent}}%
20611             {{\usekomafont{caption}}{#3\scr@endstrut}}\par}%
20612         \else
20613             \@hangfrom{\scr@smashdp\strut\hspace*{\cap@indent}}%
20614             {%
20615                 \hspace{-\cap@indent}%
20616                 \scr@smashdp{%
20617                     #1{\usekomafont{caption}}{%
20618                         \usekomafont{captionlabel}{#2\captionformat}%
20619                     }%
20620                 }%
20621             }%
20622             {{\usekomafont{caption}}{#3\scr@endstrut}}\par}%
20623         }%
20624     \fi
20625 \fi
20626 \fi
20627 }%
20628 \cap@right
20629 }\par\kern\dp\strutbox
20630 }%
20631 }\kern-\dp\strutbox
20632 }
20633
20634
20635 \bidi@AfterFile{longtable-xetex-bidi.def}{%
20636     \if@komalongtable
20637         \renewcommand{\LT@makecaption}[3]{%
20638             \noalign{%
20639                 \if@captionabove
20640                     \vskip\belowcaptionskip
20641                 \else
20642                     \vskip\abovecaptionskip
20643                 \fi
20644             }%
20645             \LT@mcol\LT@cols c{%
20646                 \hbox to\z@{\hss\parbox[t]{linewidth}%

```



```

20647         \def\@captype{table}%
20648         \@@makecaption{#1}{#2}{#3}%
20649         \endgraf
20650         \if@captionabove
20651             \vskip\abovecaptionskip
20652         \else
20653             \vskip\belowcaptionskip
20654         \fi
20655     }%
20656     \hss
20657 }%
20658 }%
20659 }%
20660 \renewcommand*{\scr@LT@array}{}%
20661 \let\scr@LT@array=\LT@array
20662 \renewcommand*{\LT@array}{%
20663     \let\scr@caption=\LT@caption
20664     \def\captionabove{\noalign{\global\@captionabovetrue}%
20665         \scr@caption}%
20666     \def\captionbelow{\noalign{\global\@captionabovetrue}%
20667         \scr@caption}%
20668     \if@tablecaptionabove
20669         \let\LT@caption=\captionabove
20670     \else
20671         \let\LT@caption=\captionbelow
20672     \fi
20673     \scr@LT@array
20674 }%
20675 \ClassInfo{\KOMAClassName}{%
20676     longtable captions redefined%
20677 }%
20678 \fi
20679 }
20680
20681 \CloneTOCEntryStyle{tocline}{part}
20682 \TOCEntryStyleStartInitCode{part}{%
20683     \expandafter\renewcommand%
20684     \csname scr@tso@#1@linefill\endcsname{\hfill}%
20685     \expandafter\renewcommand%
20686     \csname scr@tso@#1@entryformat\endcsname[1]{\usekomafont{partentry}{##1}}%
20687     \expandafter\renewcommand%
20688     \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
20689         {\usekomafont{partentry}{\usekomafont{partentrypagenumber}{##1}}}%
20690     \expandafter\renewcommand\expandafter*%
20691     \csname scr@tso@#1@beforeskip\endcsname{2.25em \@plus\p}%
20692 }
20693
20694 \CloneTOCEntryStyle{tocline}{chapter}
20695 \TOCEntryStyleStartInitCode{chapter}{%
20696     \expandafter\renewcommand%
20697     \csname scr@tso@#1@linefill\endcsname{%
20698         \if@chapterentrywithdots
20699             {\usekomafont{chapterentrydots}{\TOCLineLeaderFill}}\relax
20700         \else

```



```

20701      \hfill
20702      \fi
20703    }%
20704    \expandafter\renewcommand%
20705    \csname scr@tso@#1@entryformat\endcsname{\usekomafont{chapterentry}}}%
20706    \expandafter\renewcommand%
20707    \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
20708      {\usekomafont{chapterentry}{\usekomafont{chapterentrypagenumber}{##1}}}%
20709    \expandafter\renewcommand\expandafter*%
20710    \csname scr@tso@#1@beforeskip\endcsname{1.0em \@plus\p@}%
20711  }
20712
20713  \CloneTOCEntryStyle{tocline}{section}
20714  \TOCEntryStyleStartInitCode{section}{%
20715    \expandafter\renewcommand%
20716    \csname scr@tso@#1@linefill\endcsname{\TOCLineLeaderFill\relax}%
20717    \expandafter\renewcommand%
20718    \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
20719      {\normalfont\normalcolor ##1}}}%
20720  }
20721
20722  \CloneTOCEntryStyle{section}{default}
20723
20724  \DeclareSectionCommand[%
20725    style=chapter,%
20726    level=\z@,%
20727    pagestyle=plain,%
20728    tocstyle=chapter,%
20729    tocindent=\z@,%
20730    tocnumwidth=1.5em%
20731  ]{chapter}
20732  \DeclareSectionCommand[%
20733    style=section,%
20734    level=1,%
20735    indent=\z@,%
20736    beforeskip=-3.5ex \@plus -1ex \@minus -.2ex,%
20737    afterskip=2.3ex \@plus .2ex,%
20738    tocstyle=section,%
20739    tocindentfollows=chapter,%
20740    tocindent=1.5em,%
20741    tocnumwidth=2.3em%
20742  ]{section}
20743  \DeclareSectionCommand[%
20744    style=part,%
20745    level=\m@ne,%
20746    pagestyle=plain,%
20747    tocstyle=part,%
20748    toclevel=\m@ne,%
20749    tocindent=\z@,%
20750    tocnumwidth=2em%
20751  ]{part}
20752  \DeclareSectionCommand[%
20753    style=section,%
20754    level=2,%

```



```

20755 indent=\z@,%
20756 beforekip=-3.25ex\@plus -1ex \@minus -.2ex,%
20757 afterskip=1.5ex \@plus .2ex,%
20758 tostyle=section,%
20759 tocindent=3.8em,%
20760 tocnumwidth=3.2em%
20761 ]{subsection}
20762 \DeclareSectionCommand[%
20763 style=section,%
20764 level=3,%
20765 indent=\z@,%
20766 beforekip=-3.25ex\@plus -1ex \@minus -.2ex,%
20767 afterskip=1.5ex \@plus .2ex,%
20768 tostyle=section,%
20769 tocindent=7.0em,%
20770 tocnumwidth=4.1em%
20771 ]{subsubsection}
20772 \DeclareSectionCommand[%
20773 style=section,%
20774 level=4,%
20775 indent=\z@,%
20776 beforekip=3.25ex \@plus 1ex \@minus .2ex,%
20777 afterskip=-1em,%
20778 tocindentfollows=subsubsection,%
20779 tostyle=section,%
20780 tocindent=10em,%
20781 tocnumwidth=5em%
20782 ]{paragraph}
20783 \DeclareSectionCommand[%
20784 style=section,%
20785 level=5,%
20786 indent=\scr@parindent,%
20787 beforekip=3.25ex \@plus 1ex \@minus .2ex,%
20788 afterskip=-1em,%
20789 tostyle=section,%
20790 tocindent=12em,%
20791 tocnumwidth=6em%
20792 ]{subparagraph}

```

## 139 File scrreprt-xetex-bidi.def

```

20793 \ProvidesFile{scrreprt-xetex-bidi.def}[2022/05/27 v1.3 bidi adaptations for scrreprt class f
20794 \newcommand{\scr@saved@LTRfootnotetext}{}
20795 \newcommand{\scr@saved@RTLfootnotetext}{}
20796 \let\scr@saved@footnotetext\@footnotetext
20797 \let\scr@saved@LTRfootnotetext\@LTRfootnotetext
20798 \let\scr@saved@RTLfootnotetext\@RTLfootnotetext
20799 \renewcommand{\@footnotetext}[1]{%
20800 \scr@saved@footnotetext{#1}%
20801 \csname FN@mfb@prepare\endcsname
20802 }
20803 \renewcommand{\@LTRfootnotetext}[1]{%
20804 \scr@saved@LTRfootnotetext{#1}%
20805 \csname FN@mfb@prepare\endcsname

```



```

20806 }
20807 \renewcommand{\@RTLfootnotetext}[1]{%
20808   \scr@saved@RTLfootnotetext{#1}%
20809   \csname FN@mfb@prepare\endcsname
20810 }
20811 \renewcommand\deffootnote[4][1]{%
20812   \expandafter\ifnum\scr@v@is@ge{3.22}\relax
20813     \long\def\@makefntext##1{%
20814       \ExecuteDoHook{footnote/text/begin}%
20815       \raggedfootnote
20816       \if@RTL
20817         \rightskip
20818       \else
20819         \leftskip
20820       \fi
20821       #2
20822       \l@addto@macro\@trivlist{%
20823         \ifnum\@listdepth=\@ne
20824           \if@RTL
20825             \advance\rightmargin #2\relax
20826           \else
20827             \advance\leftmargin #2\relax
20828           \fi
20829         \fi
20830       }%
20831       \parindent #3\noindent
20832       \IfArgIsEmpty{#1}{-}{%
20833         \hskip \dimexpr #1-#2\relax
20834       }%
20835       \ftn@font\hbox to \z@{\hss\@makefnmark}##1%
20836       \ExecuteDoHook{footnote/text/end}%
20837     }%
20838   \else
20839     \ClassInfo{\KOMAClassName}{%
20840       Using old \string\@makefntext\space due to compatibility
20841       level\MessageBreak
20842       less than 3.22}%
20843     \long\def\@makefntext##1{%
20844       \setlength{\@tempdimc}{#3}%
20845       \def\@tempa{#1}\ifx\@tempa\@empty
20846         \@setpar{\@par
20847           \@tempdima = \hsize
20848           \addtolength{\@tempdima}{-#2}%
20849           \if@RTL
20850             \parshape \@ne \z@ \@tempdima
20851           \else
20852             \parshape \@ne #2 \@tempdima
20853           \fi
20854         }%
20855       \else
20856         \addtolength{\@tempdimc}{#2}%
20857         \addtolength{\@tempdimc}{-#1}%
20858         \@setpar{\@par
20859           \@tempdima = \hsize

```



```

20860         \addtolength{\@tempdima}{-#1}%
20861         \@tempdimb = \hsize
20862         \addtolength{\@tempdimb}{-#2}%
20863         \if@RTL
20864             \parshape \tw@ \z@ \@tempdima \z@ \@tempdimb
20865         \else
20866             \parshape \tw@ #1 \@tempdima #2 \@tempdimb
20867         \fi
20868     }%
20869 \fi
20870 \par
20871 \parindent\@tempdimc\noindent
20872 \ftn@font\hbox to \z@{\hss\@makefnmark}##1%
20873 }%
20874 \fi
20875 \def\@makefnmark{\hbox{\ftn@font{#4}}}%
20876 }
20877 \deffootnote[1em]{1.5em}{1em}{\textsuperscript{\thefootnotemark}}
20878 \renewcommand*\left@footnoterule{%
20879     \normalsize\ftn@rule@test@values
20880     \kern-\dimexpr 2.6\p@+\ftn@rule@height\relax
20881     \ifx\@textbottom\relax\else\vskip \z@ \@plus.05fil\fi
20882     {\usekomafont{footnoterule}{%
20883         \hrule \@height\ftn@rule@height \@width\ftn@rule@width}}%
20884     \kern 2.6\p@}
20885 \renewcommand*\right@footnoterule{%
20886     \normalsize\ftn@rule@test@values
20887     \kern-\dimexpr 2.6\p@+\ftn@rule@height\relax
20888     \ifx\@textbottom\relax\else\vskip \z@ \@plus.05fil\fi
20889     {\usekomafont{footnoterule}{%
20890         \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\ftn@rule@width\relax \leavevmode\l
20891     \kern 2.6\p@}
20892 \renewcommand*\maketitle[1][1]{%
20893     \expandafter\ifnum \c@name scr@v@3.12\endcsname>\scr@compatibility\relax
20894     \else
20895         \def\and{%
20896             \end{tabular}%
20897             \hskip 1em \@plus.17fil%
20898             \begin{tabular}[t]{c}%
20899         }%
20900     \fi
20901     \if@titlepage
20902         \begin{titlepage}
20903             \setcounter{page}{%
20904                 #1%
20905             }%
20906         \if@titlepageiscoverpage
20907             \edef\t@titlepage@restore{%
20908                 \noexpand\endgroup
20909                 \noexpand\global\noexpand\@colht\the\@colht
20910                 \noexpand\global\noexpand\@colroom\the\@colroom
20911                 \noexpand\global\vs@size\the\vs@size
20912                 \noexpand\global\noexpand\@titlepageiscoverpagefalse
20913                 \noexpand\let\noexpand\t@titlepage@restore\noexpand\relax

```



```

20914    }%
20915    \begingroup
20916    \topmargin=\dimexpr \coverpagetopmargin-1in\relax
20917    \oddsidemargin=\dimexpr \coverpageleftmargin-1in\relax
20918    \evensidemargin=\dimexpr \coverpageleftmargin-1in\relax
20919    \textwidth=\dimexpr
20920    \paperwidth-\coverpageleftmargin-\coverpagerightmargin\relax
20921    \textheight=\dimexpr
20922    \paperheight-\coverpagetopmargin-\coverpagebottommargin\relax
20923    \headheight=0pt
20924    \headsep=0pt
20925    \footskip=\baselineskip
20926    \@colht=\textheight
20927    \@colroom=\textheight
20928    \vsize=\textheight
20929    \columnwidth=\textwidth
20930    \hsize=\columnwidth
20931    \linewidth=\hsize
20932    \else
20933      \let\titlepage@restore\relax
20934    \fi
20935    \let\footnotesize\small
20936    \let\right@footnoterule\relax
20937    \let\left@footnoterule\relax
20938    \let\textwidth@footnoterule\relax
20939    \let\footnote\thanks
20940    \let\LTRfootnote\LTRthanks
20941    \let\RTLfootnote\RTLthanks
20942    \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
20943    \let\@oldmakefnmark\@makefnmark
20944    \renewcommand*{\@makefnmark}{\rlap{\@oldmakefnmark}}%
20945    \ifx\@extratitle\@empty
20946      \ifx\@frontispiece\@empty
20947        \else
20948          \if@twoside\mbox{}\next@tpage\fi
20949          \noindent\@frontispiece\next@tdpage
20950        \fi
20951      \else
20952        \noindent\@extratitle
20953        \ifx\@frontispiece\@empty
20954          \else
20955            \next@tpage
20956            \noindent\@frontispiece
20957          \fi
20958          \next@tdpage
20959        \fi
20960        \setparsizes{\z@}{\z@}{\z@\@plus 1fil}\par@updaterelative
20961        \ifx\@titlehead\@empty \else
20962          \begin{minipage}[t]{\textwidth}%
20963            \usekomafont{titlehead}{\@titlehead\par}%
20964            \end{minipage}\par
20965        \fi
20966        \null\vfill
20967        \begin{center}

```



```

20968 \ifx\@subject\@empty \else
20969 {\usekomafont{subject}{\@subject\par}}%
20970 \vskip 3em
20971 \fi
20972 {\usekomafont{title}{\huge \@title\par}}%
20973 \vskip 1em
20974 {\ifx\@subtitle\@empty\else\usekomafont{subtitle}{\@subtitle\par}\fi}%
20975 \vskip 2em
20976 {%
20977 \usekomafont{author}{%
20978 \lineskip 0.75em
20979 \begin{tabular}[t]{c}
20980 \@author
20981 \end{tabular}\par
20982 }%
20983 }%
20984 \vskip 1.5em
20985 {\usekomafont{date}{\@date \par}}%
20986 \vskip \z@ \@plus3fill
20987 {\usekomafont{publishers}{\@publishers \par}}%
20988 \vskip 3em
20989 \end{center}\par
20990 \@thanks\global\let\@thanks\@empty
20991 \vfill\null
20992 \if@twoside
20993 \@tempswatrue
20994 \expandafter\ifnum \@nameuse{scr@v@3.12}>\scr@compatibility\relax
20995 \else
20996 \ifx\@uppertitleback\@empty\ifx\@lowertitleback\@empty
20997 \@tempswafalse
20998 \fi\fi
20999 \fi
21000 \if@tempswa
21001 \next@tpage
21002 \begin{minipage}[t]{\textwidth}
21003 \@uppertitleback
21004 \end{minipage}\par
21005 \vfill
21006 \begin{minipage}[b]{\textwidth}
21007 \@lowertitleback
21008 \end{minipage}\par
21009 \@thanks\global\let\@thanks\@empty
21010 \fi
21011 \else
21012 \ifx\@uppertitleback\@empty\else
21013 \ClassWarning{\KOMAClassName}{%
21014 non empty \string\uppertitleback\space ignored
21015 by \string\maketitle\MessageBreak
21016 in `twoside=false' mode%
21017 }%
21018 \fi
21019 \ifx\@lowertitleback\@empty\else
21020 \ClassWarning{\KOMAClassName}{%
21021 non empty \string\lowertitleback\space ignored

```



```

21022         by \string\maketitle\MessageBreak
21023         in `twoside=false' mode%
21024     }%
21025 \fi
21026 \fi
21027 \ifx\@dedication\@empty
21028 \else
21029     \next@tdpage\null\vfill
21030     {\centering\usekomafont{dedication}{\@dedication \par}}%
21031     \vskip \z@ \@plus3fill
21032     \@thanks\global\let\@thanks\@empty
21033     \cleardoubleemptypage
21034 \fi
21035 \ifx\titlepage@restore\relax\else\clearpage\titlepage@restore\fi
21036 \end{titlepage}
21037 \else
21038 \par
21039 \@tempcnta=%
21040 #1%
21041 \relax\ifnum\@tempcnta=1\else
21042 \ClassWarning{\KOMAClassName}{%
21043     Optional argument of \string\maketitle\space ignored\MessageBreak
21044     in `titlepage=false' mode%
21045 }%
21046 \fi
21047 \ifx\@uppertitleback\@empty\else
21048 \ClassWarning{\KOMAClassName}{%
21049     non empty \string\uppertitleback\space ignored
21050     by \string\maketitle\MessageBreak
21051     in `titlepage=false' mode%
21052 }%
21053 \fi
21054 \ifx\@lowertitleback\@empty\else
21055 \ClassWarning{\KOMAClassName}{%
21056     non empty \string\lowertitleback\space ignored
21057     by \string\maketitle\MessageBreak
21058     in `titlepage=false' mode%
21059 }%
21060 \fi
21061 \begingroup
21062 \let\titlepage@restore\relax
21063 \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
21064 \let\@oldmakefnmark\@makefnmark
21065 \renewcommand*{\@makefnmark}{\rlap{\@oldmakefnmark}}%
21066 \next@tdpage
21067 \if@twocolumn
21068 \ifnum \col@number=\@one
21069 \ifx\@extratitle\@empty
21070 \ifx\@frontispiece\@empty\else\if@twoside\mbox{}\fi\fi
21071 \else
21072 \@makeextratitle
21073 \fi
21074 \ifx\@frontispiece\@empty
21075 \ifx\@extratitle\@empty\else\next@tdpage\fi

```



```

21076         \else
21077             \next@tpage
21078             \@makefrontispiece
21079             \next@tdpage
21080         \fi
21081         \@maketitle
21082     \else
21083         \ifx\@extratitle\@empty
21084             \ifx\@frontispiece\@empty\else\if@twoside\mbox{}\fi\fi
21085         \else
21086             \twocolumn[\@makeextratitle]%
21087         \fi
21088         \ifx\@frontispiece\@empty
21089             \ifx\@extratitle\@empty\else\next@tdpage\fi
21090         \else
21091             \next@tpage
21092             \twocolumn[\@makefrontispiece]%
21093             \next@tdpage
21094         \fi
21095         \twocolumn[\@maketitle]%
21096     \fi
21097 \else
21098     \ifx\@extratitle\@empty
21099         \ifx\@frontispiece\@empty\else \mbox{}\fi
21100     \else
21101         \@makeextratitle
21102     \fi
21103     \ifx\@frontispiece\@empty
21104         \ifx\@extratitle\@empty\else\next@tdpage\fi
21105     \else
21106         \next@tpage
21107         \@makefrontispiece
21108         \next@tdpage
21109     \fi
21110     \@maketitle
21111 \fi
21112 \ifx\titlepagestyle\@empty\else\thispagestyle{\titlepagestyle}\fi
21113 \@thanks\global\let\@thanks\@empty
21114 \endgroup
21115 \fi
21116 \setcounter{footnote}{0}%
21117 \expandafter\ifnum \csname scr@v@3.12\endcsname>\scr@compatibility\relax
21118     \let\thanks\relax
21119     \let\LTRthanks\relax
21120     \let\RTLthanks\relax
21121     \let\maketitle\relax
21122     \let\@maketitle\relax
21123     \global\let\@thanks\@empty
21124     \global\let\@author\@empty
21125     \global\let\@date\@empty
21126     \global\let\@title\@empty
21127     \global\let\@subtitle\@empty
21128     \global\let\@extratitle\@empty
21129     \global\let\@frontispiece\@empty

```



```

21130 \global\let\@titlehead\@empty
21131 \global\let\@subject\@empty
21132 \global\let\@publishers\@empty
21133 \global\let\@uppertitleback\@empty
21134 \global\let\@lowertitleback\@empty
21135 \global\let\@dedication\@empty
21136 \global\let\author\relax
21137 \global\let\title\relax
21138 \global\let\extratitle\relax
21139 \global\let\titlehead\relax
21140 \global\let\subject\relax
21141 \global\let\publishers\relax
21142 \global\let\uppertitleback\relax
21143 \global\let\lowertitleback\relax
21144 \global\let\dedication\relax
21145 \global\let\date\relax
21146 \fi
21147 \global\let\and\relax
21148 }%
21149 \def\raggedsection{\if@RTL\raggedleft\else\raggedright\fi}
21150 \renewcommand*\autodot{\if@altsecnumformat\@SepMark\fi}
21151 \renewcommand*\thesection{%
21152 \thechapter\@SepMark%
21153 \@arabic\c@section
21154 }
21155 \renewcommand*\thesubsection{\thesection\@SepMark\@arabic\c@subsection}
21156 \renewcommand*\thesubsubsection{%
21157 \thesubsection\@SepMark\@arabic\c@subsubsection
21158 }
21159 \renewcommand*\theparagraph{\thesubsubsection\@SepMark\@arabic\c@paragraph}
21160 \renewcommand*\thesubparagraph{%
21161 \theparagraph\@SepMark\@arabic\c@subparagraph
21162 }
21163 \expandafter\ifnum\scr@v@is@le{2.97d}%
21164 \renewcommand*\thefigure{\thechapter\@SepMark\@arabic\c@figure}
21165 \fi
21166 \expandafter\ifnum\scr@v@is@le{2.97d}%
21167 \renewcommand*\thetable{\thechapter\@SepMark\@arabic\c@table}
21168 \fi
21169 \renewcommand*\theequation{%
21170 \thechapter\@SepMark%
21171 \@arabic\c@equation
21172 }
21173 \renewenvironment{thebibliography}[1]{%
21174 \if@bib@break@
21175 \bib@beginhook
21176 \else
21177 \ifx\bibpreamble\relax\else\ifx\bibpreamble\@empty\else
21178 \setchapterpreamble{\bibpreamble}%
21179 \fi\fi
21180 \bib@heading
21181 \bib@beginhook
21182 \bib@before@hook
21183 \fi

```



```

21184 \renewcommand{\BreakBibliography}[1]{%
21185   \@bib@break
21186   \end{thebibliography}%
21187   \begingroup ##1\endgroup
21188   \begin{thebibliography}{#1}
21189 }%
21190 \ifRTL\ifLTRbibitems\@RTLfalse\else\fi\else\ifRTLbibitems\@RTLtrue\else\fi\fi
21191 \bidi@thebibliography@font@hook%
21192 \list{%
21193   \@biblabel{\@arabic\c@enumiv}%
21194 }{%
21195   \settowidth\labelwidth{\@biblabel{#1}}%
21196   \leftmargin\labelwidth
21197   \advance\leftmargin\labelsep
21198   \@openbib@code
21199   \if@bib@break@
21200     \edef\@tempa{%
21201       \noexpand\usecounter{enumiv}%
21202       \noexpand\setcounter{enumiv}{\the\c@enumiv}%
21203     }\@tempa
21204     \no@bib@break
21205   \else
21206     \usecounter{enumiv}%
21207   \fi
21208   \let\p@enumiv\@empty
21209   \renewcommand*\theenumiv{\@arabic\c@enumiv}%
21210 }%
21211 \sloppy\clubpenalty4000 \widowpenalty4000
21212 \sfcode`\.=\@m
21213 }{%
21214 \if@bib@break@
21215   \def\@noitemerr{%
21216     \@latex@warning{%
21217       \string\BreakBibliography\space at begin of `thebibliography'
21218       environment\MessageBreak
21219       or following \string\BreakBibliography}%
21220   }%
21221 \else
21222   \def\@noitemerr{%
21223     \@latex@warning{%
21224       Empty `thebibliography' environment or
21225       \string\BreakBibliography\MessageBreak
21226       before end of `thebibliography' environment}%
21227   }%
21228 \fi
21229 \endlist
21230 \if@bib@break@
21231 \else
21232   \bib@after@hook
21233   \let\bib@before@hook\@empty
21234   \let\bib@after@hook\@empty
21235 \fi
21236 \bib@endhook
21237 }

```



```

21238 \renewcommand*{\raggeddictum}{\if@RTL\raggedright\else\raggedleft\fi}
21239 \renewcommand*{\raggeddictumtext}{\if@RTL\raggedleft\else\raggedright\fi}
21240 \renewcommand*{\raggeddictumauthor}{\if@RTL\raggedright\else\raggedleft\fi}
21241 \renewcommand\marginline[1]{%
21242   \marginpar[\if@RTL\raggedright\else\raggedleft\fi{#1}]{\if@RTL\raggedleft\else\raggedright
21243 }
21244 \renewcommand{\@makecaption}[3]{%
21245   \cap@margin
21246   \begingroup
21247     \ifonelinecaptions
21248       \def\stepcounter##1{\advance\value{##1}\@ne}%
21249       \let\refstepcounter\stepcounter
21250       \let\label\@gobble
21251       \let\@footnotetext=\@gobble
21252       \let\@LTRfootnotetext=\@gobble
21253       \let\@RTLfootnotetext=\@gobble
21254       \let\hypertarget\@gobbletwo
21255       \edef\@xnewline{%
21256         \unexpanded{\ClassInfo{\KOMAClassName}}{%
21257           Workaround for not recommended usage of \string\\ or\MessageBreak
21258           \string\newline in caption text
21259         }%
21260         \hspace*{\linewidth}\hspace{1sp}%
21261       }%
21262       \unexpanded\expandafter{\@xnewline}%
21263     }%
21264     \edef\@xcentercr{%
21265       \unexpanded{\ClassInfo{\KOMAClassName}}{%
21266         Workaround for not recommended usage of \string\\ or\MessageBreak
21267         \string\newline in caption text
21268       }%
21269       \hspace*{\linewidth}\hspace{1sp}%
21270     }%
21271     \unexpanded\expandafter{\@xcentercr}%
21272   }%
21273   \settowidth{\@tempdima}{\scr@makesinglelinecaption{#1}{#2}{#3}}%
21274   \ifdim\@tempdima>\cap@width
21275     \aftergroup\scr@makemultilinecaption
21276   \else
21277     \aftergroup\scr@makesinglelinecaption
21278   \fi
21279   \else
21280     \aftergroup\scr@makemultilinecaption
21281   \fi
21282   \endgroup
21283   {#1}{#2}{#3}%
21284 }
21285 \renewcommand{\scr@makesinglelinecaption}[3]{%
21286   {%
21287     \usefontofkomafont{caption}{%
21288       \hb@xt@\hsize{%
21289         \cap@left
21290         \if@RTL
21291           \beginR

```



```

21292         \fi
21293         \scr@@makesinglelinecaption{#1}{#2}{#3}%
21294         \if@RTL
21295             \endR
21296         \fi
21297         \cap@right
21298     }\par\kern\dp\strutbox%
21299 }%
21300 }\kern-\dp\strutbox
21301 }
21302 \renewcommand{\@makecaption}[2]{%
21303     \if@captionabove
21304         \vskip\belowcaptionskip
21305     \else
21306         \vskip\abovecaptionskip
21307     \fi
21308     \@makecaption\@firstofone{#1}{#2}%
21309     \if@captionabove
21310         \vskip\abovecaptionskip
21311     \else
21312         \vskip\belowcaptionskip
21313     \fi
21314 }
21315
21316 \renewcommand{\scr@@makesinglelinecaption}[3]{%
21317     {\usekomafont{caption}{\strut\ignorespaces
21318     #1{\usekomafont{captionlabel}{#2\captionformat}}}%
21319     \ignorespaces #3\unskip}}%
21320 }
21321
21322 \renewcommand{\scr@makemultilinecaption}[3]{%
21323     {%
21324         \usefontofkomafont{caption}{%
21325             \hb@xt@\hsize{%
21326                 \cap@left
21327                 \vbox{\hsize\cap@width\linewidth\hsize
21328                     \scr@ifundefinedorrelax{@captype}{%
21329                         \ClassWarning{\KOMAClassName}{%
21330                             `\'string\caption' outside float.\MessageBreak
21331                             Seems you are using `\'string\caption' outside a
21332                             float.\MessageBreak
21333                             Maybe you are using a package that uses
21334                             `\'string\@makecaption'\MessageBreak
21335                             without setting `\'string\@captype' before.\MessageBreak
21336                             Because I cannot detect the caption type, I'm using\MessageBreak
21337                             the empty one.%
21338                         }%
21339                         \let\@captype\@empty
21340                     }{}%
21341                     \scr@ifundefinedorrelax{ragged\@captype caption}{\raggedcaption}{%
21342                         \@nameuse{ragged\@captype caption}%
21343                     }%
21344                     \ifdofullc@p
21345                         \@hangfrom{%

```



```

21346         \strut
21347         \scr@smashdp{%
21348             #1{%
21349                 \usekomafont{caption}{%
21350                     \usekomafont{captionlabel}{#2\captionformat}%
21351                 }%
21352             }%
21353         }%
21354     }%
21355     {{\usekomafont{caption}{#3\scr@endstrut}}\par}%
21356 \else
21357     \ifdim\cap@indent<\z@
21358         \strut
21359         #1{%
21360             {\usekomafont{caption}{%
21361                 \usekomafont{captionlabel}{#2\captionformat}%
21362             }%
21363         }\par}%
21364         \noindent{{\usekomafont{caption}{%
21365             \hspace*{-\cap@indent}#3\scr@endstrut
21366         }}\par}%
21367     \else
21368         \if@capbreak
21369             \strut
21370             #1{%
21371                 {\usekomafont{caption}{%
21372                     \usekomafont{captionlabel}{#2\captionformat}%
21373                 }%
21374             }\par}%
21375             \noindent\@hangfrom{\hspace*{\cap@indent}}%
21376             {{\usekomafont{caption}{#3\scr@endstrut}}\par}%
21377         \else
21378             \@hangfrom{\scr@smashdp\strut\hspace*{\cap@indent}}%
21379             {%
21380                 \hspace{-\cap@indent}%
21381                 \scr@smashdp{%
21382                     #1{\usekomafont{caption}{%
21383                         \usekomafont{captionlabel}{#2\captionformat}%
21384                     }%
21385                 }%
21386             }%
21387             {{\usekomafont{caption}{#3\scr@endstrut}}\par}%
21388         }%
21389         \fi
21390     \fi
21391 }%
21392 \cap@right
21393 }\par\kern\dp\strutbox
21394 }%
21395 }\kern-\dp\strutbox
21396 }
21397 }
21398
21399

```



```

21400 \bidi@AfterFile{longtable-xetex-bidi.def}{%
21401   \if@komalongtable
21402     \renewcommand{\LT@makecaption}[3]{%
21403       \noalign{%
21404         \if@captionabove
21405           \vskip\belowcaptionskip
21406         \else
21407           \vskip\abovecaptionskip
21408         \fi
21409       }%
21410       \LT@mcol\LT@cols c{%
21411         \hbox to\z@{\hss\parbox[t]{\linewidth{%
21412           \def\@capytype{table}%
21413           \@makecaption{#1}{#2}{#3}%
21414           \endgraf
21415           \if@captionabove
21416             \vskip\abovecaptionskip
21417           \else
21418             \vskip\belowcaptionskip
21419           \fi
21420         }%
21421         \hss
21422       }%
21423     }%
21424   }%
21425   \renewcommand*\scr@LT@array}{}%
21426   \let\scr@LT@array=\LT@array
21427   \renewcommand*\LT@array{%
21428     \let\scr@caption=\LT@caption
21429     \def\captionabove{\noalign{\global\@captionabovetrue}%
21430       \scr@caption}%
21431     \def\captionbelow{\noalign{\global\@captionabovefalse}%
21432       \scr@caption}%
21433     \if@tablecaptionabove
21434       \let\LT@caption=\captionabove
21435     \else
21436       \let\LT@caption=\captionbelow
21437     \fi
21438     \scr@LT@array
21439   }%
21440   \ClassInfo{\KOMAClassName}{%
21441     longtable captions redefined%
21442   }%
21443 \fi
21444 }
21445
21446 \CloneTOCEntryStyle{tocline}{part}
21447 \TOCEntryStyleStartInitCode{part}{%
21448   \expandafter\renewcommand%
21449   \csname scr@tso@#1@linefill\endcsname{\hfill}%
21450   \expandafter\renewcommand%
21451   \csname scr@tso@#1@entryformat\endcsname[1]{\usekomafont{partentry}{##1}}%
21452   \expandafter\renewcommand%
21453   \csname scr@tso@#1@pagenumberformat\endcsname[1]{%

```



```

21454     {\usekomafont{partentry}{\usekomafont{partentrypagenumber}{##1}}}%
21455 \expandafter\renewcommand\expandafter*%
21456 \csname scr@tso@#1@beforeskip\endcsname{2.25em \@plus\p@}%
21457 }
21458
21459 \CloneTOCEntryStyle{tocline}{chapter}
21460 \TOCEntryStyleStartInitCode{chapter}{%
21461   \expandafter\renewcommand%
21462   \csname scr@tso@#1@linefill\endcsname{%
21463     \if@chapterentrywithdots
21464       {\usekomafont{chapterentrydots}{\TOCLineLeaderFill}}\relax
21465     \else
21466       \hfill
21467     \fi
21468   }%
21469   \expandafter\renewcommand%
21470   \csname scr@tso@#1@entryformat\endcsname{\usekomafont{chapterentry}}}%
21471   \expandafter\renewcommand%
21472   \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
21473     {\usekomafont{chapterentry}{\usekomafont{chapterentrypagenumber}{##1}}}%
21474     \expandafter\renewcommand\expandafter*%
21475     \csname scr@tso@#1@beforeskip\endcsname{1.0em \@plus\p@}%
21476   }
21477
21478 \CloneTOCEntryStyle{tocline}{section}
21479 \TOCEntryStyleStartInitCode{section}{%
21480   \expandafter\renewcommand%
21481   \csname scr@tso@#1@linefill\endcsname{\TOCLineLeaderFill\relax}%
21482   \expandafter\renewcommand%
21483   \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
21484     {\normalfont\normalcolor ##1}}%
21485   }
21486
21487 \CloneTOCEntryStyle{section}{default}
21488
21489 \DeclareSectionCommand[%
21490   style=chapter,%
21491   level=\z@,%
21492   pagestyle=plain,%
21493   tocstyle=chapter,%
21494   tocindent=\z@,%
21495   tocnumwidth=1.5em%
21496 ]{chapter}
21497 \DeclareSectionCommand[%
21498   style=section,%
21499   level=1,%
21500   indent=\z@,%
21501   beforekip=-3.5ex \@plus -1ex \@minus -.2ex,%
21502   afterskip=2.3ex \@plus .2ex,%
21503   tocstyle=section,%
21504   tocindentfollows=chapter,%
21505   tocindent=1.5em,%
21506   tocnumwidth=2.3em%
21507 ]{section}

```



```

21508 \DeclareSectionCommand[%
21509   style=part,%
21510   level=\m@ne,%
21511   pagestyle=plain,%
21512   tocstyle=part,%
21513   toplevel=\m@ne,%
21514   tocindent=\z@,%
21515   tocnumwidth=2em%
21516 ]{part}
21517 \DeclareSectionCommand[%
21518   style=section,%
21519   level=2,%
21520   indent=\z@,%
21521   beforekip=-3.25ex\@plus -1ex \@minus -.2ex,%
21522   afterskip=1.5ex \@plus .2ex,%
21523   tocstyle=section,%
21524   tocindent=3.8em,%
21525   tocnumwidth=3.2em%
21526 ]{subsection}
21527 \DeclareSectionCommand[%
21528   style=section,%
21529   level=3,%
21530   indent=\z@,%
21531   beforekip=-3.25ex\@plus -1ex \@minus -.2ex,%
21532   afterskip=1.5ex \@plus .2ex,%
21533   tocstyle=section,%
21534   tocindent=7.0em,%
21535   tocnumwidth=4.1em%
21536 ]{subsubsection}
21537 \DeclareSectionCommand[%
21538   style=section,%
21539   level=4,%
21540   indent=\z@,%
21541   beforekip=3.25ex \@plus 1ex \@minus .2ex,%
21542   afterskip=-1em,%
21543   tocindentfollows=subsubsection,%
21544   tocstyle=section,%
21545   tocindent=10em,%
21546   tocnumwidth=5em%
21547 ]{paragraph}
21548 \DeclareSectionCommand[%
21549   style=section,%
21550   level=5,%
21551   indent=\scr@parindent,%
21552   beforekip=3.25ex \@plus 1ex \@minus .2ex,%
21553   afterskip=-1em,%
21554   tocstyle=section,%
21555   tocindent=12em,%
21556   tocnumwidth=6em%
21557 ]{subparagraph}

```

## 140 File sidecap-xetex-bidi.def

```

21558 \ProvidesFile{sidecap-xetex-bidi.def}[2010/08/01 v0.1 bidi adaptations for sidecap package f

```



```

21559 \renewcommand*{\SC@FLOAT}[2]{\if@RTL%
21560   \isSC@ODD{{#1}\hspace{\sidecaptionsep}{#2}} {{#2}\hspace{\sidecaptionsep}{#1}}\else%
21561 \isSC@ODD{{#2}\hspace{\sidecaptionsep}{#1}} {{#1}\hspace{\sidecaptionsep}{#2}}\fi}
21562 \renewcommand*{\SC@justify@caption}{\if@RTL%
21563 \isSC@ODD{\RaggedLeft}{\RaggedRight}\else%
21564   \isSC@ODD{\RaggedRight}{\RaggedLeft}\fi}

```

## 141 File soul-xetex-bidi.def

```

21565 \ProvidesFile{soul-xetex-bidi.def}[2015/10/16 v0.1 bidi adaptations for soul package for XeTeX]
21566 \long\def\SOUL@start#1{%
21567   \let\bid@RTL@everypar\@empty
21568   \let\<\SOUL@lowerthan
21569   \let\>\empty
21570   \def\soulomit{\noexpand\soulomit}%
21571   \gdef\SOUL@eventuallyexhyphen##1{%
21572     \let\SOUL@soeventuallyskip\relax
21573     \SOUL@spaceskip=\fontdimen\tw@\font\@plus\fontdimen\thr@@\font
21574       \@minus\fontdimen4\font
21575     \SOUL@ignorespacesfalse
21576     \leavevmode
21577     \SOUL@preamble
21578     \SOUL@lasttoken={}%
21579     \SOUL@word={}%
21580     \SOUL@minus\z@
21581     \SOUL@comma\z@
21582     \SOUL@apo\z@
21583     \SOUL@grave\z@
21584     \SOUL@do{#1}%
21585     \SOUL@postamble
21586 }}
21587 \def\SOUL@ulunderline#1{%
21588   \setbox\z@\hbox{#1}%
21589   \dimen@=\wd\z@
21590   \dimen@i=\SOUL@uloverlap
21591   \advance\dimen@2\dimen@i
21592   \if@RTL
21593     \unhcopy\z@
21594     \llap{%
21595       \null
21596       \kern-\dimen@i
21597       \SOUL@ulcolor{\SOUL@ulleaders\hskip\dimen@}%
21598     }%
21599   \else
21600     \rlap{%
21601       \null
21602       \kern-\dimen@i
21603       \SOUL@ulcolor{\SOUL@ulleaders\hskip\dimen@}%
21604     }%
21605     \unhcopy\z@
21606   \fi
21607 }}
21608 \def\bid@SOUL@ulleaders{%
21609   \leaders\hb@xt@0.1pt{\hss\SOUL@ulcolor{\vrule\@depth\SOUL@uldp\@height\SOUL@ulht}\hss}\n

```



```

21610 }
21611 \def\SOUL@uleveryspace#1{%
21612     \if@RTL
21613         #1%
21614     \bidi@SOUL@ulleaders
21615     \hskip\spaceskip
21616     \else
21617     \SOUL@ulcolor{%
21618         #1%
21619         \SOUL@ulleaders
21620         \hskip\spaceskip
21621     }%
21622     \fi
21623     \null
21624 }

```

## 142 File stabular-xetex-bidi.def

```

21625 \ProvidesFile{stabular-xetex-bidi.def}[2015/11/07 v0.3 bidi adaptations for stabular package]
21626 \def\@stabular{%
21627     \leavevmode \bgroup \if@RTLtab\beginR \fi
21628     \let\@acol\@tabacol
21629     \let\@classz\@tabclassz
21630     \let\@classiv\@tabclassiv \let\\\@tabularcr\@stabarray}
21631 \def\endstabular{\crr\egroup\if@RTLtab\egroup\endR\egroup\fi
21632     \egroup \if@RTLtab\endR\fi\egroup}
21633 \expandafter \let \csname endstabular*\endcsname = \endstabular
21634 \def\@sarray[#1]#2{%
21635     \bgroup
21636     \setbox\@arstrutbox\hbox{%
21637         \vrule \@height\arraystretch\ht\strutbox
21638         \@depth\arraystretch \dp\strutbox
21639         \@width\z@}%
21640     \mkpream{#2}%
21641     \edef\@preamble{%
21642         \ialign \noexpand\@halignto
21643             \bgroup \@arstrut \@preamble \tabskip\z@skip \cr}%
21644     \let\@startpbox\@startpbox \let\@endpbox\@endpbox
21645     \let\@tabularnewline\%
21646     \let\@sharp##%
21647     \set@typeset@protect
21648     \lineskip\z@skip\baselineskip\z@skip
21649     \if@RTLtab\hbox\bgroup\beginR\@hboxRconstructtrue\if #1t\top \else \vbox \fi\bgroup\fi
21650     \@preamble}

```

## 143 File subfigure-xetex-bidi.def

```

21651 \ProvidesFile{subfigure-xetex-bidi.def}[2010/03/01 v0.1 bidi adaptations for subfigure packa
21652 \AtBeginDocument{%
21653 \let\p@subfigure=\thefigure
21654 \let\p@subtable=\thetable%
21655 }

```



## 144 File tabs-xetex-bidi.def

```

21656 \ProvidesFile{tabs-xetex-bidi.def}[2015/11/07 v0.3 bidi adaptations for tabs package for Xe
21657 \def\endtabular{\endarray $\if@RTLtab\endR\fi\egroup}
21658
21659 \expandafter\let\csname endtabular*\endcsname=\endtabular
21660
21661 \def\endarray{\ifvmode\csname crcr\endcsname % just do \crr if \ given
21662 \else \[\z@ \global\advance\@arstdepth-\@otarlinesep]%
21663 \fi\egroup\if@RTLtab\egroup\endR\egroup\fi\@unrecurse\egroup}
21664
21665 \def\@array[#1]#2{% remember global variables to allow recursion:
21666 \edef\@unrecurse{\global\@skip@bove\the\@skip@bove
21667 \global\@arstheight\the\@arstheight\global\@arstdepth\the\@arstdepth}%
21668 \let\@otarlinesep\@tarlinesep \global\@skip@bove-\@otarlinesep
21669 \ifx\@classz\@arrayclassz \let\@tarlinesep\arraylinesep
21670 \else \let\@tarlinesep\tablinesep \fi
21671 \divide\@tarlinesep\tw@ % half sep is applied to height & depth
21672 \let\@seesize\relax \let\@rememsize\relax \mkpream{#2}%
21673 \@tempdima\arraystretch\ht\strutbox \@tempdimb\arraystretch\dp\strutbox
21674 \ifdim\@tarlinesep>\z@ % (need \protect for \multicolumn)
21675 \def\@rememsize{\protect\@r@msize}\let\@seesize\@s@size
21676 \advance\@tempdima-\@tarlinesep \advance\@tempdimb-\@tarlinesep
21677 \fi \setbox\@arstrutbox\hbox{% set up smaller strut
21678 \vrule \@height\@tempdima \@depth\@tempdimb \@width\z@}%
21679 \let\protect\noexpand
21680 \edef\@preamble{\ialign \noexpand\@halignto \bgroup
21681 \unhcopy\@arstrutbox \@preamble \tabskip\z@skip &\@sharp \cr}%
21682 \let\@startpbox\@startpbox \let\@endpbox\@endpbox
21683 \if#1t\top \else \if#1b\box \else \vcenter \fi\fi
21684 \bgroup \let\par\@empty
21685 \global\@arstheight\ht\@arstrutbox \global\@arstdepth\dp\@arstrutbox
21686 \advance\extrarulesep.5\arrayrulewidth
21687 \let\@sharp##\let\protect\relax \lineskip\z@skip \baselineskip\z@skip
21688 \if@RTLtab\hbox\bgroup\beginR\@hboxRconstructtrue\if#1t\top \else \box \fi\bgroup\fi
21689 \@preamble}

```

## 145 File tabularx-xetex-bidi.def

```

21690 \ProvidesFile{tabularx-xetex-bidi.def}[2014/11/08 v0.1 bidi adaptations for tabularx package
21691 \def\TX@endtabularx{%
21692 \expandafter\expandafter\expandafter
21693 \TX@find@endtabularxa\csname end\TX@\endcsname
21694 \endtabularx\TX@\endtabularx\TX@find@endtabularxa
21695 \expandafter\TX@newcol\expandafter{\tabularxcolumn{\TX@col@width}}%
21696 \let\verb\TX@verb
21697 \def\@elt##1{\global\value{##1}\the\value{##1}\relax}%
21698 \edef\TX@ckpt{\cl@ckpt}%
21699 \let\@elt\relax
21700 \TX@old@table\maxdimen
21701 \TX@col@width\TX@target
21702 \global\TX@cols\@ne
21703 \TX@typeout@
21704 {\@spaces Table Width\@spaces Column Width\@spaces X Columns}%

```



```

21705 \TX@trial{\def\NC@rewrite@X{%
21706     \global\advance\TX@cols\@ne\NC@find p{\TX@col@width}}}%
21707 \loop
21708     \TX@arith
21709     \ifTX@
21710     \TX@trial{%
21711 \repeat
21712 {\let\@footnotetext\TX@ftntext\let\@xfootnotenext\TX@xftntext
21713  \let\@LTrfootnotetext\TX@LTrftntext\let\@xLTrfootnotenext\TX@xLTrftntext
21714  \let\@RTLfootnotetext\TX@RTLftntext\let\@xRTLfootnotenext\TX@xRTLftntext
21715   \csname tabular*\expandafter\endcsname\expandafter\TX@target
21716   \the\toks@
21717   \csname endtabular*\endcsname}%
21718 \global\TX@ftn\expandafter{\expandafter}\the\TX@ftn
21719 \ifnum0=\fi}%
21720 \expandafter\expandafter\expandafter
21721 \TX@find@endtabularxbb
21722 \expandafter\end\expandafter{\TX@}%
21723 \endtabularx\TX@\endtabularx\TX@find@endtabularxb
21724 }
21725
21726 \def\TX@trial#1{%
21727     \setbox\@tempboxa\hbox{%
21728         #1\relax
21729     \let\@footnotetext\TX@trial@ftn
21730     \let\@LTrfootnotetext\TX@trial@ftn
21731     \let\@RTLfootnotetext\TX@trial@ftn
21732     \let\TX@vwarn\@empty
21733     \expandafter\let\expandafter\tabularx\csname tabular*\endcsname
21734     \expandafter\let\expandafter\endtabularx\csname endtabular*\endcsname
21735     \def\write{\begingroup
21736         \def\let{\afterassignment\endgroup\toks@}%
21737         \afterassignment\let\count@}%
21738     \hbadness\@M
21739     \hfuzz\maxdimen
21740     \let\hbadness\@tempcnta
21741     \let\hfuzz\@tempdima
21742     \expandafter\tabular\the\toks@
21743     \endtabular}%
21744 \TX@ckpt
21745 \TX@typeout@{\@spaces
21746     \expandafter\TX@align
21747     \the\wd\@tempboxa\space\space\space\space\space\@@
21748     \expandafter\TX@align
21749     \the\TX@col@width\space\space\space\space\space\@@
21750     \@spaces\the\TX@cols}}
21751
21752 \long\def\TX@LTrftntext#1{%
21753     \edef\@tempa{\the\TX@ftn\noexpand\LTrfootnotetext
21754         [\the\csname c@\mpfn\endcsname]}}%
21755     \global\TX@ftn\expandafter{\@tempa{#1}}}%
21756 \long\def\TX@xLTrftntext[#1]#2{%
21757     \global\TX@ftn\expandafter{\the\TX@ftn\LTrfootnotetext[#1]{#2}}}
21758

```



```

21759 \long\def\TX@RTLftntext#1{%
21760   \edef\@tempa{\the\TX@ftn\noexpand\RTLfootnotetext
21761             [\the\csname c@\@mpfn\endcsname]}%
21762   \global\TX@ftn\expandafter{\@tempa{#1}}}%
21763 \long\def\TX@xRTLftntext[#1]#2{%
21764   \global\TX@ftn\expandafter{\the\TX@ftn\RTLfootnotetext[#1]{#2}}}

```

## 146 File tabulary-xetex-bidi.def

```

21765 \ProvidesFile{tabulary-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for tabulary package]
21766 \def\@testpach{\@chclass
21767   \ifnum \@lastchclass=6 \@ne \@chnum \@ne \else
21768   \ifnum \@lastchclass=7 5 \else
21769   \ifnum \@lastchclass=8 \tw@ \else
21770   \ifnum \@lastchclass=9 \thr@@
21771   \else \z@
21772   \ifnum \@lastchclass = 10 \else
21773   \edef\@nextchar{\expandafter\string\@nextchar}%
21774   \@chnum
21775   \if \@nextchar c\z@ \else
21776   \if \@nextchar \if@RTLtab r\else l\fi\@ne \else
21777   \if \@nextchar \if@RTLtab l\else r\fi\tw@ \else
21778   \if \@nextchar C7 \else
21779   \if \@nextchar L8 \else
21780   \if \@nextchar R9 \else
21781   \if \@nextchar J10 \else
21782   \z@ \@chclass
21783   \if\@nextchar |\@ne \else
21784   \if \@nextchar !6 \else
21785   \if \@nextchar @7 \else
21786   \if \@nextchar <8 \else
21787   \if \@nextchar >9 \else
21788   10
21789   \@chnum
21790   \if \@nextchar m\thr@@\else
21791   \if \@nextchar p4 \else
21792   \if \@nextchar b5 \else
21793   \z@ \@chclass \z@ \@preamerr \z@ \fi \fi \fi \fi \fi \fi \fi \fi \fi
21794   \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi}

```

## 147 File tc-xetex-bidi.def

```

21795 \ProvidesFile{tc-xetex-bidi.def}[2014/07/08 v0.1 bidi adaptations for Clipping driver for Xe
21796 \def\@cliptoboxdim#1{%
21797   \setbox#1=\hbox{%
21798     \Gin@defaultbp\WIDTH{\wd#1}%
21799     \Gin@defaultbp\DEPTH{\dp#1}%
21800     \@tempdima\ht#1%
21801     \advance\@tempdima\dp#1%
21802     \Gin@defaultbp\TOTALHEIGHT{\@tempdima}%
21803     \beginL\special{pdf:bcontent }%
21804     \special{%
21805       pdf:literal direct
21806       0 -\DEPTH\space \WIDTH\space \TOTALHEIGHT\space re

```



```

21807      }%
21808      \special{pdf:literal direct W }%
21809      \special{pdf:literal direct n }%
21810          \if@RTL\beginR\fi\box#1\if@RTL\endR\fi%
21811      \special{pdf:econtent }\endL%
21812  }%
21813 }

```

## 148 File tcolorbox-xetex-bidi.def

```

21814 \ProvidesFile{tcolorbox-xetex-bidi.def}[2018/11/11 v0.2 bidi adaptations for tcolorbox packa
21815 \let\endtcblrbox=\endminipage
21816 \let\endtcbsavebox=\endtcblrbox
21817
21818 \bidi@patchcmd{\tcb@vbox}{%
21819   \let\@footnotetext\@mpfootnotetext%
21820 }{%
21821   \let\@footnotetext\@mpfootnotetext%
21822   \let\@LTRfootnotetext\@mpLTRfootnotetext%
21823   \let\@RTLfootnotetext\@mpRTLfootnotetext%
21824 }{}{}
21825
21826 \bidi@patchcmd{\endtcblvbox}{%
21827   \footnoterule%
21828 }{%
21829   \bidi@mpfootnoterule%
21830 }{}{}
21831 \bidi@apptocmd\tcb@icolorbox{%
21832   \@bidi@list@minipage@parboxfalse
21833 }{}{}

```

## 149 File titlesec-xetex-bidi.def

```

21834 \ProvidesFile{titlesec-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for titlesec package
21835 \renewcommand\filright{%
21836   \gdef\ttl@filleft##1{\hskip##1}%
21837   \gdef\ttl@filright##1{\hfill}%
21838   \let\\\@centercr
21839   \advance\rightskip\z@ \@plus 1fil
21840   \parfillskip\z@}
21841 \def\ttlh@hang#1#2#3#4#5#6#7#8{%
21842   \gdef\ttl@makeline##1{\ttl@calc\hspace{#6}##1\ttl@calc\hspace{#7}}%
21843   \setlength\leftskip{#6}%
21844   \setlength\rightskip{#7}%
21845   \interlinepenalty\@M
21846   \ttl@changeparindent
21847   \ttl@beginlongest
21848   #1{\ifhmode\ttl@hmode@error\fi
21849     \ttl@glcmds
21850     \parindent\z@
21851     \leavevmode
21852     \begingroup
21853     \ifttl@label
21854       \sbox\z@{#2\strut\ttl@calc\hspace{#3}}%

```



```

21855         \if@RTL\advance\rightskip\wd\z@\else\advance\leftskip\wd\z@\fi
21856         \llap{\box\z@}%
21857     \fi
21858     #4{#8}%
21859     \kern\z@\strut\@@par
21860 \endgroup
21861 \nobreak\ttl@midlongest#5\@@par}%
21862 \ttl@endlongest}

```

## 150 File `titletoc-xetex-bidi.def`

```

21863 \ProvidesFile{titletoc-xetex-bidi.def}[2013/04/10 v0.2 bidi adaptations for titletoc package]
21864 \renewcommand\filright{%
21865   \gdef\ttl@filleft##1{\hskip##1}%
21866   \gdef\ttl@filright##1{\hfill}%
21867   \let\\\@centercr
21868   \advance\rightskip\z@ \@plus 1fil
21869 \parfillskip\z@}
21870 \renewcommand\contentspush[1]{%
21871   \sbox\z@{#1}%
21872   \xdef\ttl@b{\advance\if@RTL\rightskip\else\leftskip\fi\the\wd\z@}%
21873   \aftergroup\ttl@b
21874   \leavevmode\llap{\box\z@}}
21875 \def\ttl@outnoblock#1#2#3{%
21876   \begingroup
21877   \ifnum\ttl@b>\ttl@a
21878     \nobreak
21879   \else\ifnum\ttl@b<\ttl@a
21880     \addpenalty{\@secpenalty}%
21881   \else
21882     \addpenalty{\z@}%
21883   \fi\fi
21884   \ttl@contentsstretch
21885   \nobreak
21886   \ifcase#1\relax\else\interlinepenalty\M\fi
21887   \parindent\z@
21888   \ifx\@nil#2%
21889     \PackageError{titletoc}{Unimplemented}%
21890     {The optional argument is currently mandatory}%
21891   \else
21892     \if@RTL\setlength\rightskip{#2}\else
21893     \setlength\leftskip{#2}\fi%
21894   \fi
21895   \if@RTL\setlength\leftskip{\@pnumwidth}\else\setlength\rightskip{\@pnumwidth}\fi%
21896   \let\contentsmargin\ttl@margin
21897   \def\ttl@makeline##1{##1}%
21898   #3%
21899   \addtolength{\parfillskip}{-\ttl@corr}%
21900   \if@RTL\addtolength{\leftskip}{\ttl@corr}\else\addtolength{\rightskip}{\ttl@corr}\fi%
21901   \let\ttl@leaders\leaders}
21902 \renewcommand\ttl@margin[2][\z@]{%
21903   \def\ttl@corr{#1}%
21904   \advance\if@RTL\leftskip\else\rightskip\fi-\@pnumwidth\relax
21905   \advance\if@RTL\leftskip\else\rightskip\fi#2\relax

```



```

21906 \def\@pnumwidth{#2}}
21907 \let\ttl@savel@part\l@part
21908 \def\l@part{\ttl@lselect{part}}
21909
21910 \let\ttl@savel@chapter\l@chapter
21911 \def\l@chapter{\ttl@lselect{chapter}}

```

## 151 File tocbibind-xetex-bidi.def

```

21912 \ProvidesFile{tocbibind-xetex-bidi.def}[2017/06/09 v0.4 bidi adaptations for tocbibind packa
21913 \if@dotocbib
21914 \ifpackageloaded{natbib}{}{% natbib not loaded
21915 \renewcommand{\bibsection}{\t@cb@bchapsec}
21916 \renewenvironment{thebibliography}[1]{%
21917 \bibsection
21918 \begin{thebibitemlist}{#1}}{\end{thebibitemlist}}
21919 \renewenvironment{thebibitemlist}[1]{
21920 \ifRTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
21921 \bidi@thebibliography@font@hook%
21922 \list{\@biblabel{\@arabic{c@enumiv}}}%
21923 {\settowidth\labelwidth{\@biblabel{#1}}%
21924 \leftmargin\labelwidth
21925 \advance\leftmargin\labelsep
21926 \@openbib@code
21927 \usecounter{enumiv}%
21928 \let\p@enumiv\@empty
21929 \renewcommand\theenumiv{\@arabic{c@enumiv}}}%
21930 \sloppy
21931 \clubpenalty4000
21932 \@clubpenalty \clubpenalty
21933 \widowpenalty4000%
21934 \sfcode`\.\@m}
21935 {\def\@noitemerr
21936 {\@latex@warning{Empty `thebibliography' environment}}}%
21937 \endlist}
21938
21939 \ifpackagewith{chapterbib}{sectionbib}%
21940 {\renewcommand{\sectionbib}[2]{}%
21941 {}
21942
21943 \fi
21944 \if@inltxdoc\else
21945 \renewenvironment{theindex}%
21946 {\if@twocolumn
21947 \@restonecolfalse
21948 \else
21949 \@restonecoltrue
21950 \fi
21951 \if@bibchapter
21952 \if@donumindex
21953 \refstepcounter{chapter}
21954 \twocolumn[\vspace*{2\topskip}%
21955 \@makechapterhead{\indexname}}%
21956 \addcontentsline{toc}{chapter}{\protect\numberline{thechapter}\indexname}

```



```

21957         \chaptermark{\indexname}
21958     \else
21959         \if@dotocind
21960             \twocolumn[\vspace*{2\topskip}%
21961                 \@makeschapterhead{\indexname}]]%
21962             \prw@mkboth{\indexname}
21963             \addcontentsline{toc}{chapter}{\indexname}
21964         \else
21965             \twocolumn[\vspace*{2\topskip}%
21966                 \@makeschapterhead{\indexname}]]%
21967             \prw@mkboth{\indexname}
21968         \fi
21969     \fi
21970 \else
21971     \if@donumindex
21972         \twocolumn[\vspace*{-1.5\topskip}%
21973             \@nameuse{\@tocextra}{\indexname}]]%
21974         \csname \@tocextra mark\endcsname{\indexname}
21975     \else
21976         \if@dotocind
21977             \twocolumn[\vspace*{-1.5\topskip}%
21978                 \toc@headstar{\@tocextra}{\indexname}]]%
21979             \prw@mkboth{\indexname}
21980             \addcontentsline{toc}{\@tocextra}{\indexname}
21981         \else
21982             \twocolumn[\vspace*{-1.5\topskip}%
21983                 \toc@headstar{\@tocextra}{\indexname}]]%
21984             \prw@mkboth{\indexname}
21985         \fi
21986     \fi
21987 \fi
21988 \thispagestyle{plain}\parindent\z@
21989 \parskip\z@ \@plus .3\p@\relax
21990 \let\item\@idxitem}
21991 {\if@restonecol\onecolumn\else\clearpage\fi}
21992 \fi

```

## 152 File tocloft-xetex-bidi.def

```

21993 \ProvidesFile{tocloft-xetex-bidi.def}[2010/07/25 v0.2 bidi adaptations for tocloft package f
21994 \let\cftdot\@SepMark
21995 \if@cfthaspart
21996 \renewcommand*{\l@part}[2]{
21997     \cftdopartfalse
21998     \ifnum \c@tocdepth >-2\relax
21999         \if@cfthaschapter
22000             \cftdoparttrue
22001         \fi
22002         \ifnum \c@tocdepth >\m@ne
22003             \if@cfthaschapter\else
22004                 \cftdoparttrue
22005             \fi
22006         \fi
22007     \fi

```



```

22008 \if@cftdopart
22009 \if@cfthaschapter
22010 \addpenalty{-\@highpenalty}
22011 \else
22012 \addpenalty\@secpenalty
22013 \fi
22014 \addvspace{\cftbeforepartskip}
22015 \begingroup
22016 {\if@RTL\rightrightskip\else\leftskip\fi \cftpartindent\relax
22017 \if@RTL\leftskip\else\rightrightskip\fi \@tocrmarg
22018 \parfillskip -\if@RTL\leftskip\else\rightrightskip\fi
22019 \parindent \cftpartindent\relax\@afterindenttrue
22020 \interlinepenalty\@M
22021 \leavevmode
22022 \@tempdima \cftpartnumwidth\relax
22023 \let\@cftbsnum \cftpartpresnum
22024 \let\@cftasnum \cftpartaftersnum
22025 \let\@cftasnumb \cftpartaftersnumb
22026 \advance\if@RTL\rightrightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\rightrightskip\else\leftskip\fi
22027 {\cftpartfont \cftpartpresnum #1}
22028 \cftpartfillnum{#2}}
22029 \nobreak
22030 \if@cfthaschapter
22031 \global\@nobreaktrue
22032 \everypar{\global\@nobreakfalse\everypar{}}
22033 \else
22034 \if@compatibility
22035 \global\@nobreaktrue
22036 \everypar{\global\@nobreakfalse\everypar{}}
22037 \fi
22038 \fi
22039 \endgroup
22040 \fi}
22041 \fi
22042 \if@cfthaschapter
22043 \renewcommand*{\l@chapter}[2]{
22044 \ifnum \c@tocdepth >\m@ne
22045 \addpenalty{-\@highpenalty}
22046 \vskip \cftbeforechapskip
22047 {\if@RTL\rightrightskip\else\leftskip\fi \cftchapindent\relax
22048 \if@RTL\leftskip\else\rightrightskip\fi \@tocrmarg
22049 \parfillskip -\if@RTL\leftskip\else\rightrightskip\fi
22050 \parindent \cftchapindent\relax\@afterindenttrue
22051 \interlinepenalty\@M
22052 \leavevmode
22053 \@tempdima \cftchapnumwidth\relax
22054 \let\@cftbsnum \cftchappresnum
22055 \let\@cftasnum \cftchapaftersnum
22056 \let\@cftasnumb \cftchapaftersnumb
22057 \advance\if@RTL\rightrightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\rightrightskip\else\leftskip\fi
22058 {\cftchapfont #1}\nobreak
22059 \cftchapfillnum{#2}}
22060 \fi}
22061 \fi

```



```

22062 \renewcommand*{\l@section}[2]{%
22063   \ifnum \c@tocdepth >\z@
22064     \if@cfthaschapter
22065       \vskip \cftbeforesecskip
22066     \else
22067       \addpenalty\@secpenalty
22068       \addvspace{\cftbeforesecskip}
22069     \fi
22070     {\if@RTL\righskip\else\leftskip\fi \cftsecindent\relax
22071     \if@RTL\leftskip\else\righskip\fi \@tocrmarg
22072     \parfillskip -\if@RTL\leftskip\else\righskip\fi
22073     \parindent \cftsecindent\relax\@afterindenttrue
22074     \interlinepenalty\@M
22075     \leavevmode
22076     \@tempdima \cftsecnumwidth\relax
22077     \let\@cftbsnum \cftsecpresnum
22078     \let\@cftasnum \cftsecaftersnum
22079     \let\@cftasnumb \cftsecaftersnumb
22080     \advance\if@RTL\righskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\righ
22081     {\cftsecfont #1}\nobreak
22082     \cftsecfillnum{#2}}
22083   \fi}
22084 \renewcommand*{\l@subsection}[2]{%
22085   \ifnum \c@tocdepth >\@one
22086     \vskip \cftbeforesubsecskip
22087     {\if@RTL\righskip\else\leftskip\fi \cftsubsecindent\relax
22088     \if@RTL\leftskip\else\righskip\fi \@tocrmarg
22089     \parfillskip -\if@RTL\leftskip\else\righskip\fi
22090     \parindent \cftsubsecindent\relax\@afterindenttrue
22091     \interlinepenalty\@M
22092     \leavevmode
22093     \@tempdima \cftsubsecnumwidth\relax
22094     \let\@cftbsnum \cftsubsecpresnum
22095     \let\@cftasnum \cftsubsecaftersnum
22096     \let\@cftasnumb \cftsubsecaftersnumb
22097     \advance\if@RTL\righskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\righ
22098     {\cftsubsecfont #1}\nobreak
22099     \cftsubsecfillnum{#2}}
22100   \fi}
22101 \renewcommand*{\l@subsubsection}[2]{%
22102   \ifnum \c@tocdepth >\tw@
22103     \vskip \cftbeforesubsubsecskip
22104     {\if@RTL\righskip\else\leftskip\fi \cftsubsubsecindent\relax
22105     \if@RTL\leftskip\else\righskip\fi \@tocrmarg
22106     \parfillskip -\if@RTL\leftskip\else\righskip\fi
22107     \parindent \cftsubsubsecindent\relax\@afterindenttrue
22108     \interlinepenalty\@M
22109     \leavevmode
22110     \@tempdima \cftsubsubsecnumwidth\relax
22111     \let\@cftbsnum \cftsubsubsecpresnum
22112     \let\@cftasnum \cftsubsubsecaftersnum
22113     \let\@cftasnumb \cftsubsubsecaftersnumb
22114     \advance\if@RTL\righskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\righ
22115     {\cftsubsubsecfont #1}\nobreak

```



```

22116     \cftsubsubsecfillnum{#2}}
22117 \fi}
22118 \renewcommand*{\l@paragraph}[2]{%
22119   \ifnum \c@tocdepth >3\relax
22120     \vskip \cftbeforeparaskip
22121     {\if@RTL\righskip\else\leftskip\fi \cftparaindent\relax
22122     \if@RTL\leftskip\else\righskip\fi \@tocrmarg
22123     \parfillskip -\if@RTL\leftskip\else\righskip\fi
22124     \parindent \cftparaindent\relax\@afterindenttrue
22125     \interlinepenalty\@M
22126     \leavevmode
22127     \@tempdima \cftparanumwidth\relax
22128     \let\@cftbsnum \cftparapresnum
22129     \let\@cftasnum \cftparaaftersnum
22130     \let\@cftasnumb \cftparaaftersnumb
22131     \advance\if@RTL\righskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\righ
22132     {\cftparafont #1}\nobreak
22133     \cftparafillnum{#2}}
22134 \fi}
22135 \renewcommand*{\l@subparagraph}[2]{%
22136   \ifnum \c@tocdepth >4\relax
22137     \vskip \cftbeforesubparaskip
22138     {\if@RTL\righskip\else\leftskip\fi \cftsubparaindent\relax
22139     \if@RTL\leftskip\else\righskip\fi \@tocrmarg
22140     \parfillskip -\if@RTL\leftskip\else\righskip\fi
22141     \parindent \cftsubparaindent\relax\@afterindenttrue
22142     \interlinepenalty\@M
22143     \leavevmode
22144     \@tempdima \cftsubparanumwidth\relax
22145     \let\@cftbsnum \cftsubparapresnum
22146     \let\@cftasnum \cftsubparaaftersnum
22147     \let\@cftasnumb \cftsubparaaftersnumb
22148     \advance\if@RTL\righskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\righ
22149     {\cftsubparafont #1}\nobreak
22150     \cftsubparafillnum{#2}}
22151 \fi}
22152 \renewcommand*{\l@figure}[2]{%
22153   \ifnum \c@lofdepth >\z@
22154     \vskip \cftbeforefigskip
22155     {\if@RTL\righskip\else\leftskip\fi \cftfigindent\relax
22156     \if@RTL\leftskip\else\righskip\fi \@tocrmarg
22157     \parfillskip -\if@RTL\leftskip\else\righskip\fi
22158     \parindent \cftfigindent\relax\@afterindenttrue
22159     \interlinepenalty\@M
22160     \leavevmode
22161     \@tempdima \cftfignumwidth\relax
22162     \let\@cftbsnum \cftfigpresnum
22163     \let\@cftasnum \cftfigaftersnum
22164     \let\@cftasnumb \cftfigaftersnumb
22165     \advance\if@RTL\righskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\righ
22166     {\cftfigfont #1}\nobreak
22167     \cftfigfillnum{#2}}
22168 \fi
22169 }

```



```

22170 \renewcommand*{\l@table}[2]{%
22171   \ifnum\c@lotdepth >\z@
22172     \vskip \cftbeforetabskip
22173     {\if@RTL\righskip\else\leftskip\fi \cfttabindent\relax
22174      \if@RTL\leftskip\else\righskip\fi \@tocrmarg
22175      \parfillskip -\if@RTL\leftskip\else\righskip\fi
22176      \parindent \cfttabindent\relax\@afterindenttrue
22177      \interlinepenalty\@M
22178      \leavevmode
22179      \@tempdima \cfttabnumwidth\relax
22180      \let\@cftbsnum \cfttabpresnum
22181      \let\@cftasnum \cfttabaftersnum
22182      \let\@cftasnumb \cfttabaftersnumb
22183      \advance\if@RTL\righskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\righ
22184      {\cfttabfont #1}\nobreak
22185      \cfttabfillnum{#2}}
22186   \fi
22187 }
22188 \renewcommand{\@cftl@subfig}{
22189 \renewcommand*{\l@subfigure}[2]{%
22190   \ifnum \c@lofdepth > \toclevel@subfigure
22191     \vskip \cftbeforesubfigskip
22192     {\if@RTL\righskip\else\leftskip\fi \cftsubfigindent\relax
22193      \if@RTL\leftskip\else\righskip\fi \@tocrmarg
22194      \parfillskip -\if@RTL\leftskip\else\righskip\fi
22195      \parindent \cftsubfigindent\relax\@afterindenttrue
22196      \interlinepenalty\@M
22197      \leavevmode
22198      \@tempdima \cftsubfignumwidth\relax
22199      \let\@cftbsnum \cftsubfigpresnum
22200      \let\@cftasnum \cftsubfigaftersnum
22201      \let\@cftasnumb \cftsubfigaftersnumb
22202      \advance\if@RTL\righskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\righ
22203      {\cftsubfigfont ##1}\nobreak
22204      \cftsubfigfillnum{##2}}
22205   \fi
22206 }
22207 }
22208 \renewcommand{\@cftl@subtab}{
22209 \renewcommand*{\l@subtable}[2]{%
22210   \ifnum \c@lotdepth > \toclevel@subtable
22211     \vskip \cftbeforesubtabskip
22212     {\if@RTL\righskip\else\leftskip\fi \cftsubtabindent\relax
22213      \if@RTL\leftskip\else\righskip\fi \@tocrmarg
22214      \parfillskip -\if@RTL\leftskip\else\righskip\fi
22215      \parindent \cftsubtabindent\relax\@afterindenttrue
22216      \interlinepenalty\@M
22217      \leavevmode
22218      \@tempdima \cftsubtabnumwidth\relax
22219      \let\@cftbsnum \cftsubtabpresnum
22220      \let\@cftasnum \cftsubtabaftersnum
22221      \let\@cftasnumb \cftsubtabaftersnumb
22222      \advance\if@RTL\righskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\righ
22223      {\cftsubtabfont ##1}\nobreak

```



```

22224 \cftsubtabfillnum{##2}}
22225 \fi
22226 }
22227 }
22228 \renewcommand{\newlistentry}[4][\@empty]{%
22229 \ifundefined{c@#2}{% check & set the counter
22230 \ifx \@empty#1\relax
22231 \newcounter{#2}
22232 \else
22233 \ifundefined{c@#1}{\PackageWarning{tocloft}%
22234 {#1 has no counter for use as a `within'}
22235 \newcounter{#2}}%
22236 {\newcounter{#2}[#1]%
22237 \expandafter\edef\csname the#2\endcsname{%
22238 \expandafter\noexpand\csname the#1\endcsname\@SepMark\noexpand\arabic{#2}}}
22239 \fi
22240 \setcounter{#2}{0}
22241 }
22242 {\PackageError{tocloft}{#2 has been previously defined}{\@eha}}
22243
22244 \@namedef{l@#2}##1##2{%
22245 \ifnum \@nameuse{c@#3depth} > #4\relax
22246 \vskip \@nameuse{cftbefore#2skip}
22247 {\if@RTL\righskip\else\leftskip\fi \@nameuse{cft#2indent}\relax
22248 \if@RTL\leftskip\else\righskip\fi \@toctrmarg
22249 \parfillskip -\if@RTL\leftskip\else\righskip\fi
22250 \parindent \@nameuse{cft#2indent}\relax\@afterindenttrue
22251 \interlinepenalty\@M
22252 \leavevmode
22253 \@tempdima \@nameuse{cft#2numwidth}\relax
22254 \expandafter\let\expandafter\@cftbsnum\csname cft#2presnum\endcsname
22255 \expandafter\let\expandafter\@cftasnum\csname cft#2aftersnum\endcsname
22256 \expandafter\let\expandafter\@cftasnumb\csname cft#2aftersnumb\endcsname
22257 \advance\if@RTL\righskip\else\leftskip\fi\@tempdima \null\nobreak\hskip -\if@RTL\righ
22258 {\@nameuse{cft#2font}##1}\nobreak
22259 \@nameuse{cft#2fillnum}{##2}}
22260 \fi
22261 } % end of l@#2
22262
22263 \expandafter\newlength\csname cftbefore#2skip\endcsname
22264 \setlength{\@nameuse{cftbefore#2skip}}{\z@ \@plus .2\p@}
22265 \expandafter\newlength\csname cft#2indent\endcsname
22266 \expandafter\newlength\csname cft#2numwidth\endcsname
22267 \ifcase #4\relax % 0
22268 \setlength{\@nameuse{cft#2indent}}{0em}
22269 \setlength{\@nameuse{cft#2numwidth}}{1.5em}
22270 \or % 1
22271 \setlength{\@nameuse{cft#2indent}}{1.5em}
22272 \setlength{\@nameuse{cft#2numwidth}}{2.3em}
22273 \or % 2
22274 \setlength{\@nameuse{cft#2indent}}{3.8em}
22275 \setlength{\@nameuse{cft#2numwidth}}{3.2em}
22276 \or % 3
22277 \setlength{\@nameuse{cft#2indent}}{7.0em}

```



```

22278 \setlength{\@nameuse{cft#2numwidth}}{4.1em}
22279 \else % anything else
22280 \setlength{\@nameuse{cft#2indent}}{10.0em}
22281 \setlength{\@nameuse{cft#2numwidth}}{5.0em}
22282 \fi
22283 \@namedef{cft#2font}{\normalfont}
22284 \@namedef{cft#2presnum}{}
22285 \@namedef{cft#2aftersnum}{}
22286 \@namedef{cft#2aftersnumb}{}
22287 \@namedef{cft#2dotsep}{\cftdotsep}
22288 \@namedef{cft#2leader}{\normalfont\cftdotfill{\@nameuse{cft#2dotsep}}}
22289 \@namedef{cft#2pagefont}{\normalfont}
22290 \@namedef{cft#2afterpnum}{}
22291 \@namedef{toclevel@#2}{#4}
22292 \@namedef{cft#2fillnum}##1{%
22293   {\@nameuse{cft#2leader}}\nobreak
22294   \hb@xt@{\@pnumwidth}{\hfil\@nameuse{cft#2pagefont}##1}\@nameuse{cft#2afterpnum}\par}
22295 } % end \newlistentry
22296 \renewcommand{\cftchapterprecistoc}[1]{\addtocontents{toc}{%
22297   {\if@RTL\righskip\else\leftskip\fi \cftchapindent\relax
22298   \advance\if@RTL\righskip\else\leftskip\fi \cftchapnumwidth\relax
22299   \if@RTL\leftskip\else\righskip\fi \@tocrmarg\relax
22300   \textit{#1}\protect\par}}}

```

## 153 File tocbasic-xetex-bidi.def

```

22301 \ProvidesFile{tocbasic-xetex-bidi.def}[2022/05/27 v0.4 bidi adaptations for tocbasic package]
22302 \bidi@undef\scr@dte@def@1@undottedtocline
22303 \bidi@undef\scr@dte@undottedtocline@init
22304 \DeclareTOCEntryStyle{undottedtocline}[{%
22305   \DefineTOCEntryLengthOption{indent}%
22306   {scr@tso@}{@indent}{entry indent}%
22307   \DefineTOCEntryLengthOption{numwidth}%
22308   {scr@tso@}{@numwidth}{entry number width}%
22309   \@ifundefined{#1tocdepth}{%
22310     \Ifstr{#1}{part}{\@namedef{#1tocdepth}{-1}}{%
22311       \Ifstr{#1}{chapter}{\@namedef{#1tocdepth}{0}}{%
22312         \Ifstr{#1}{section}{\@namedef{#1tocdepth}{1}}{%
22313           \Ifstr{#1}{subsection}{\@namedef{#1tocdepth}{2}}{%
22314             \Ifstr{#1}{subsubsection}{\@namedef{#1tocdepth}{3}}{%
22315               \Ifstr{#1}{paragraph}{\@namedef{#1tocdepth}{4}}{%
22316                 \Ifstr{#1}{subparagraph}{\@namedef{#1tocdepth}{5}}{%
22317                   \Ifstr{#1}{figure}{\@namedef{#1tocdepth}{1}}{%
22318                     \Ifstr{#1}{table}{\@namedef{#1tocdepth}{1}}{%
22319                       \expandafter\let\csname #1tocdepth\endcsname
22320                       \csname #1numdepth\endcsname
22321                     }%
22322                   }%
22323                 }%
22324               }%
22325             }%
22326           }%
22327         }%
22328       }%

```



```

22329 }%
22330 }{}%
22331 \@ifundefined{scr@tso@#1@indent}{%
22332   \@ifundefined{scr@#1@tocindent}{%
22333     \Ifstr{#1}{figure}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
22334       \Ifstr{#1}{table}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
22335         \Ifstr{#1}{part}{\@namedef{scr@tso@#1@indent}{0em}}{%
22336           \Ifstr{#1}{chapter}{\@namedef{scr@tso@#1@indent}{0em}}{%
22337             \scr@ifundefinedorrelax{1@chapter}{%
22338               \Ifstr{#1}{section}{\@namedef{scr@tso@#1@indent}{Opt}}{%
22339                 \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
22340                   \Ifstr{#1}{subsubsection}{%
22341                     \@namedef{scr@tso@#1@indent}{3.8em}%
22342                   }{%
22343                     \Ifstr{#1}{paragraph}{%
22344                       \@namedef{scr@tso@#1@indent}{7em}%
22345                     }{%
22346                       \Ifstr{#1}{subparagraph}{%
22347                         \@namedef{scr@tso@#1@indent}{10em}%
22348                       }{%
22349                         }%
22350                       }%
22351                     }%
22352                   }%
22353                 }%
22354               }{}%
22355             \Ifstr{#1}{section}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
22356               \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@indent}{3.8em}}{%
22357                 \Ifstr{#1}{subsubsection}{%
22358                   \@namedef{scr@tso@#1@indent}{7.0em}%
22359                 }{%
22360                   \Ifstr{#1}{paragraph}{%
22361                     \@namedef{scr@tso@#1@indent}{10em}%
22362                   }{%
22363                     \Ifstr{#1}{subparagraph}{%
22364                       \@namedef{scr@tso@#1@indent}{12em}%
22365                     }{%
22366                       }%
22367                     }%
22368                   }%
22369                 }%
22370               }%
22371             }%
22372           }%
22373         }%
22374       }%
22375     }{}%
22376   }{}%
22377   \@namedef{scr@tso@#1@indent}{\@nameuse{scr@#1@tocindent}}%
22378 }%
22379 }{}%
22380 \@ifundefined{scr@tso@#1@numwidth}{%
22381   \@ifundefined{scr@#1@tocnumwidth}{%
22382     \Ifstr{#1}{figure}{\@namedef{scr@tso@#1@numwidth}{2.3em}}{%

```



```

22383 \Ifstr{#1}{table}{\@namedef{scr@tso@#1@numwidth}{2.3em}}{%
22384 \Ifstr{#1}{chapter}{\@namedef{scr@tso@#1@numwidth}{1.5em}}{%
22385 \scr@ifundefinedorrelax{chapter}{%
22386 \Ifstr{#1}{section}{\@namedef{scr@tso@#1@numwidth}{1.5em}}{%
22387 \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@numwidth}{2.3em}}{%
22388 \Ifstr{#1}{subsubsection}{%
22389 \@namedef{scr@tso@#1@numwidth}{3.2em}%
22390 }{%
22391 \Ifstr{#1}{paragraph}{%
22392 \@namedef{scr@tso@#1@numwidth}{4.1em}%
22393 }{%
22394 \Ifstr{#1}{subparagraph}{%
22395 \@namedef{scr@tso@#1@numwidth}{5m}%
22396 }{%
22397 }%
22398 }%
22399 }%
22400 }%
22401 }%
22402 }{%
22403 \Ifstr{#1}{section}{\@namedef{scr@tso@#1@numwidth}{2.3em}}{%
22404 \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@numwidth}{3.2em}}{%
22405 \Ifstr{#1}{subsubsection}{%
22406 \@namedef{scr@tso@#1@numwidth}{3.1em}%
22407 }{%
22408 \Ifstr{#1}{paragraph}{%
22409 \@namedef{scr@tso@#1@numwidth}{5em}%
22410 }{%
22411 \Ifstr{#1}{subparagraph}{%
22412 \@namedef{scr@tso@#1@numwidth}{6em}%
22413 }{%
22414 }%
22415 }%
22416 }%
22417 }%
22418 }%
22419 }%
22420 }%
22421 }%
22422 }%
22423 }{%
22424 \@namedef{scr@tso@#1@numwidth}{\@nameuse{scr@#1@tocnumwidth}}%
22425 }%
22426 }{%
22427 }]{%
22428 \ifnum \c@tocdepth >\numexpr \@nameuse{#1tocdepth}-\@ne\relax
22429 \ifnum \@nameuse{#1tocdepth}<\@ne
22430 \scr@ifundefinedorrelax{chapter}{%
22431 \addpenalty\@secpenalty
22432 \addvspace{1.0em \@plus\p@}%
22433 }{%
22434 \addpenalty{-\@highpenalty}%
22435 \vskip 1.0em \@plus\p@
22436 }%

```



```

22437 \else
22438 \addpenalty\@secpenalty
22439 \addvspace{1.0em \@plus\p@}%
22440 \fi
22441 \setlength\@tempdima{\@nameuse{scr@tso@#1@numwidth}}%
22442 \begingroup
22443 \parindent \z@ \bidi@rightskip \@pnumwidth
22444 \parfillskip -\@pnumwidth
22445 \leavevmode
22446 \bfseries
22447 \advance\bidi@leftskip\@tempdima
22448 \If Tocfeature{\@currentt}{noindent}{%
22449 \hskip -\bidi@leftskip
22450 }{%
22451 \advance\bidi@leftskip\@nameuse{scr@tso@#1@indent}%
22452 \hskip -\dimexpr \bidi@leftskip-\@nameuse{scr@tso@#1@indent}\relax
22453 }%
22454 ##1%
22455 \nobreak
22456 \hfil \nobreak\hb@xt@\@pnumwidth{\hss ##2}%
22457 \par
22458 \penalty\@highpenalty
22459 \endgroup
22460 \fi
22461 }
22462
22463 \bidi@undef\scr@dte@def@l@targetocline
22464 \bidi@undef\scr@dte@targetocline@init
22465 \DeclareTOCEntryStyle{targetocline}[{%
22466 \DefineTOCEntryLengthOption{indent}%
22467 {scr@tso@}{@indent}{entry indent}%
22468 \@ifundefined{#1tocdepth}{%
22469 \Ifstr{#1}{part}{\@namedef{#1tocdepth}{-1}}{%
22470 \Ifstr{#1}{chapter}{\@namedef{#1tocdepth}{0}}{%
22471 \Ifstr{#1}{section}{\@namedef{#1tocdepth}{1}}{%
22472 \Ifstr{#1}{subsection}{\@namedef{#1tocdepth}{2}}{%
22473 \Ifstr{#1}{subsubsection}{\@namedef{#1tocdepth}{3}}{%
22474 \Ifstr{#1}{paragraph}{\@namedef{#1tocdepth}{4}}{%
22475 \Ifstr{#1}{subparagraph}{\@namedef{#1tocdepth}{5}}{%
22476 \Ifstr{#1}{figure}{\@namedef{#1tocdepth}{1}}{%
22477 \Ifstr{#1}{table}{\@namedef{#1tocdepth}{1}}{%
22478 \expandafter\let\csname #1tocdepth\expandafter\endcsname
22479 \csname #1numdepth\endcsname
22480 }%
22481 }%
22482 }%
22483 }%
22484 }%
22485 }%
22486 }%
22487 }%
22488 }%
22489 }{%
22490 \@ifundefined{scr@tso@#1@indent}{%

```



```

22491 \ifundefined{scr@#1@tocindent}{%
22492 \Ifstr{#1}{figure}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
22493 \Ifstr{#1}{table}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
22494 \Ifstr{#1}{part}{\@namedef{scr@tso@#1@indent}{0em}}{%
22495 \Ifstr{#1}{chapter}{\@namedef{scr@tso@#1@indent}{0em}}{%
22496 \scr@ifundefinedorrelax{1@chapter}{%
22497 \Ifstr{#1}{section}{\@namedef{scr@tso@#1@indent}{0pt}}{%
22498 \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
22499 \Ifstr{#1}{subsubsection}{%
22500 \@namedef{scr@tso@#1@indent}{3.8em}%
22501 }{%
22502 \Ifstr{#1}{paragraph}{%
22503 \@namedef{scr@tso@#1@indent}{7em}%
22504 }{%
22505 \Ifstr{#1}{subparagraph}{%
22506 \@namedef{scr@tso@#1@indent}{10em}%
22507 }{%
22508 }%
22509 }%
22510 }%
22511 }%
22512 }%
22513 }{%
22514 \Ifstr{#1}{section}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
22515 \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@indent}{3.8em}}{%
22516 \Ifstr{#1}{subsubsection}{%
22517 \@namedef{scr@tso@#1@indent}{7.0em}%
22518 }{%
22519 \Ifstr{#1}{paragraph}{%
22520 \@namedef{scr@tso@#1@indent}{10em}%
22521 }{%
22522 \Ifstr{#1}{subparagraph}{%
22523 \@namedef{scr@tso@#1@indent}{12em}%
22524 }{%
22525 }%
22526 }%
22527 }%
22528 }%
22529 }%
22530 }%
22531 }%
22532 }%
22533 }%
22534 }%
22535 }{%
22536 \@namedef{scr@tso@#1@indent}{\@nameuse{scr@#1@tocindent}}%
22537 }%
22538 }{%
22539 }]{%
22540 \ifnum \c@tocdepth > \numexpr \@nameuse{#1tocdepth} - \@ne \relax
22541 \ifnum \@nameuse{#1tocdepth} < \@ne
22542 \scr@ifundefinedorrelax{chapter}{%
22543 \addpenalty\@secpenalty
22544 \addvspace{2.25em \@plus\p@}%

```



```

22545 }{%
22546 \addpenalty{-\@highpenalty}%
22547 \addvspace{2.25em \@plus\p@}%
22548 }%
22549 \else
22550 \addpenalty\@secpenalty
22551 \addvspace{2.25em \@plus\p@}%
22552 \fi
22553 \setlength\@tempdima{3em}%
22554 \beginngroup
22555 \parindent \z@ \bidi@rightskip \@pnumwidth
22556 \parfillskip -\@pnumwidth
22557 \leavevmode
22558 \large
22559 \bfseries
22560 \Iftocfeature{\@currentx}{noindent}{%
22561 }{%
22562 \advance\bidi@leftskip\@nameuse{scr@tso@#1@indent}%
22563 }%
22564 ##1%
22565 \hfil \nobreak\hb@xt@\@pnumwidth{\hss ##2}%
22566 \par
22567 \nobreak
22568 \ifnum 0=
22569 \scr@ifundefinedorrelax{chapter}{\if@compatibility 1\else 0\fi}{1}\relax
22570 \global\@nobreaktrue
22571 \everypar{\global\@nobreakfalse\everypar{}}%
22572 \fi
22573 \endgroup
22574 \fi
22575 }
22576
22577 \renewcommand*{\scr@dte@tocline}[3]{%
22578 \ifnum \@nameuse{#1tocdepth}>\c@tocdepth
22579 \else
22580 \tocbasic@DependOnPenaltyAndTOCLevel{#1}%
22581 \addvspace{\@nameuse{scr@tso@#1@beforeskip}}\relax
22582 \@nameuse{Ifscr@tso@#1@dynindent}{%
22583 \expandafter\ifx\c@name scr@tso@#1@indentfollows\endcsname\@empty
22584 \PackageWarning{tocbasic}{`dynindent' for `#1' not available}%
22585 \else
22586 \edef\reserved@a{\@nameuse{scr@tso@#1@indentfollows}}%
22587 \@for \reserved@a:=\reserved@a\do {%
22588 \scr@trim@spaces\reserved@a
22589 \ifx\reserved@a\@empty\else
22590 \scr@ifundefinedorrelax{\reserved@a tocdepth}{%
22591 }{%
22592 \ifnum \@nameuse{\reserved@a tocdepth}<\@nameuse{#1tocdepth}%
22593 \@tempdima\@nameuse{scr@tso@\reserved@a @indent}\relax
22594 \@nameuse{Ifscr@tso@\reserved@a @dynnumwidth}{%
22595 \scr@ifundefinedorrelax
22596 {scr@dte@\reserved@a @lastmaxnumwidth}{%
22597 \advance\@tempdima
22598 \@nameuse{scr@tso@\reserved@a @numwidth}\relax

```



```

22599      }{%
22600      \advance\@tempdima
22601      \@nameuse{scr@dte@\reserved@a @lastmaxnumwidth}\relax
22602      }%
22603    }{%
22604      \advance\@tempdima
22605      \@nameuse{scr@tso@\reserved@a @numwidth}\relax
22606    }%
22607    \ifdim \@tempdima>\@nameuse{scr@tso@#1@indent}\relax
22608      \expandafter\edef\csname scr@tso@#1@indent\endcsname
22609      {\the\@tempdima}%
22610    \fi
22611  \fi
22612  }%
22613 \fi
22614 }%
22615 \fi
22616 }{}%
22617 {%
22618   \Iftocfeature{\@currentx}{noindent}{%
22619     \bidi@leftskip \z@
22620   }{%
22621     \bidi@leftskip \@nameuse{scr@tso@#1@indent}\relax
22622   }%
22623   \bidi@rightskip \@nameuse{scr@tso@#1@rightindent}\relax
22624   \parfillskip -\bidi@rightskip
22625   \@nameuse{Ifscr@tso@#1@raggedpage}{%
22626     \addtolength{\parfillskip}{\z@ \@plus 1fil}%
22627   }{}%
22628   \Iftocfeature{\@currentx}{noindent}{%
22629     \parindent \z@
22630   }{%
22631     \parindent \@nameuse{scr@tso@#1@indent}\relax
22632   }%
22633   \@afterindenttrue
22634   \interlinepenalty\@M
22635   \expandafter\ifx\csname ragged#1entry\endcsname\raggedright
22636     \addtolength\bidi@rightskip\@flushglue
22637   \else
22638     \def\reserved@a{\raggedright}%
22639     \expandafter\ifx\csname ragged#1entry\endcsname\reserved@a
22640       \addtolength\bidi@rightskip\@flushglue
22641     \else
22642       \renewcommand\reserved@a{\raggedright}%
22643       \expandafter\ifx\csname ragged#1entry\endcsname\reserved@a
22644         \addtolength\bidi@rightskip\@flushglue
22645       \fi
22646     \fi
22647   \fi
22648   \leavevmode
22649   \@tempdima \@nameuse{scr@tso@#1@numwidth}\relax
22650   \@nameuse{Ifscr@tso@#1@dynnumwidth}{%
22651     \scr@ifundefinedorrelax{scr@dte@#1@lastmaxnumwidth}{}%
22652     \ifdim \@nameuse{scr@dte@#1@lastmaxnumwidth}>\@tempdima

```



```

22653         \@tempdima \@nameuse{scr@dte@#1@lastmaxnumwidth}\relax
22654     \fi
22655 }%
22656 }{}%
22657 \advance\bidil@leftskip \@tempdima
22658 \null\nobreak\hskip -\bidil@leftskip
22659 {%
22660     \usetocbasicnumberline
22661     \let\scr@dte@numberline@box\numberline@box
22662     \def\numberline@box##1{%
22663         \sbox\scr@dte@tocline@numbox{\@nameuse{scr@tso@#1@numberformat}}{##1}}%
22664     \global\scr@dte@tocline@numberwidth
22665     \dimexpr\wd\scr@dte@tocline@numbox+\@nameuse{scr@tso@#1@numsep}\relax
22666     \relax
22667     \ifdim \scr@dte@tocline@numberwidth
22668         >\@nameuse{scr@dte@#1@maxnumwidth}\relax
22669         \global\@nameuse{scr@dte@#1@maxnumwidth}\scr@dte@tocline@numberwidth
22670     \fi
22671     \@nameuse{Ifscr@tso@#1@dynnumwidth}}{}{%
22672     \ifdim \scr@dte@tocline@numberwidth
22673         >\dimexpr \@nameuse{scr@tso@#1@numwidth}%
22674         +\@nameuse{scr@tso@#1@numsep}\relax\relax
22675     \PackageWarning{tocbasic}{%
22676         number width of #1 toc entries should be
22677         increased!\MessageBreak
22678         Currently used number width =
22679         \the\wd\scr@dte@tocline@numbox,\MessageBreak
22680         Wanted number separation
22681         \space\space\space =
22682         \the\dimexpr\@nameuse{scr@tso@#1@numsep}\relax,\MessageBreak
22683         Reserved number width \space\space\space\space\space\space =
22684         \the\dimexpr\@nameuse{scr@tso@#1@numwidth}\relax%
22685     }%
22686     \fi
22687 }%
22688 \scr@dte@numberline@box{\@nameuse{scr@tso@#1@numberformat}}{##1}}%
22689 \@nameuse{Ifscr@tso@#1@breakafternumber}}{}%
22690 {\parfillskip\@flushglue\par}\nobreak\hskip-\bidil@leftskip
22691 }{}%
22692 }%
22693 {\@nameuse{scr@tso@#1@entryformat}}{}%
22694 #2%
22695 \nobreak
22696 {%
22697     \normalfont\normalsize\@nameuse{scr@tso@#1@linefill}}%
22698     \nobreak
22699     \expandafter\let\expandafter\scr@dte@pagenumberwidth
22700     \csname scr@tso@#1@pagenumberwidth\endcsname
22701     \@nameuse{scr@tso@#1@pagenumberbox}}{}%
22702     \@nameuse{scr@tso@#1@pagenumberformat}}{#3}%
22703 }%
22704 }%
22705 }}\@par
22706 }%

```



```

22707 }%
22708 \tocbasic@SetPenaltyByTOCLevel{#1}%
22709 \fi
22710 }
22711
22712
22713 \bidi@undef\scr@dte@def@l@tocline
22714 \bidi@undef\scr@dte@tocline@init
22715 \DeclareTOCEntryStyle{tocline}[{%
22716 \DefineTOCEntryLengthOption{beforeskip}%
22717 {scr@tso@}{@beforeskip}{vertical skip before the entry}%
22718 \DefineTOCEntryIfOption{breakafternumber}%
22719 {scr@tso@}{@breakafternumber}{line break after number flag}%
22720 \DefineTOCEntryIfOption{dynnumwidth}%
22721 {scr@tso@}{@dynnumwidth}{dynamic number width flag}%
22722 \DefineTOCEntryListOption{indentfollows}%
22723 {scr@tso@}{@indentfollows}{list of levels that define the indent}%
22724 \DefineTOCEntryIfOption{dynindent}%
22725 {scr@tso@}{@dynindent}{dynamic indent width flag}%
22726 \DefineTOCEntryCommandOption{entryformat}%
22727 {scr@tso@}{@entryformat}[1]{entry format}%
22728 \DefineTOCEntryCommandOption{entrynumberformat}%
22729 {scr@tso@}{@numberformat}[1]{entry number format}%
22730 \DefineTOCEntryCommandOption{linefill}[\TOCLineLeaderFill]%
22731 {scr@tso@}{@linefill}{filling between text and page number}%
22732 \DefineTOCEntryLengthOption{numsep}%
22733 {scr@tso@}{@numsep}{entry number separation}%
22734 \DefineTOCEntryCommandOption{onstarthigherlevel}%
22735 {scr@tso@}{@LastTOCLevelWasLower}{start higher level entry hook}%
22736 \DefineTOCEntryCommandOption{onstartlowerlevel}%
22737 {scr@tso@}{@LastTOCLevelWasHigher}{start lower level entry hook}%
22738 \DefineTOCEntryCommandOption{onstartsamelevel}%
22739 {scr@tso@}{@LastTOCLevelWasSame}{start same level entry hook}%
22740 \DefineTOCEntryCommandOption{pagenumberbox}%
22741 {scr@tso@}{@pagenumberbox}[1]{page number box}%
22742 \DefineTOCEntryCommandOption{pagenumberformat}%
22743 {scr@tso@}{@pagenumberformat}[1]{page number format}%
22744 \DefineTOCEntryLengthOption{pagenumberwidth}%
22745 {scr@tso@}{@pagenumberwidth}{width of page number box}%
22746 \DefineTOCEntryLengthOption{rightindent}%
22747 {scr@tso@}{@rightindent}{entry's text right indent}%
22748 \DefineTOCEntryOption{raggedentrytext}[true]{%
22749 \FamilySetBool{KOMAAarg}{raggedentrytext}{@tempswa}{##1}%
22750 \ifx\FamilyKeyState\FamilyKeyStateProcessed
22751 \if@tempswa
22752 \expandafter\let\csname ragged\scr@dte@current entry\endcsname
22753 \raggedright
22754 \else
22755 \expandafter\let\csname ragged\scr@dte@current entry\endcsname
22756 \relax
22757 \fi
22758 \fi
22759 }%
22760 \DefineTOCEntryIfOption{raggedpagenumber}%

```



```

22761 {scr@tso@}{@raggedpage}{page number ragged flag}%
22762 \DefineTOCEntryLengthOption{indent}%
22763 {scr@tso@}{@indent}{entry indent}%
22764 \DefineTOCEntryLengthOption{numwidth}%
22765 {scr@tso@}{@numwidth}{entry number width}%
22766 \scr@ifundefinedorrelax{#1tocdepth}{%
22767 \Ifstrstart{#1}{sub}{%
22768 \scr@ifundefinedorrelax{\scr@dte@nosub{#1}tocdepth}{}%
22769 \expandafter\edef\csname #1tocdepth\endcsname{%
22770 \the\numexpr \noexpand\@nameuse{\scr@dte@nosub{#1}tocdepth}+\@ne\relax
22771 }%
22772 }%
22773 }{}%
22774 }{}%
22775 \@ifundefined{#1tocdepth}{%
22776 \Ifstr{#1}{part}{\@namedef{#1tocdepth}{-1}}{%
22777 \Ifstr{#1}{chapter}{\@namedef{#1tocdepth}{0}}{%
22778 \Ifstr{#1}{section}{\@namedef{#1tocdepth}{1}}{%
22779 \Ifstr{#1}{subsection}{\@namedef{#1tocdepth}{2}}{%
22780 \Ifstr{#1}{subsubsection}{\@namedef{#1tocdepth}{3}}{%
22781 \Ifstr{#1}{paragraph}{\@namedef{#1tocdepth}{4}}{%
22782 \Ifstr{#1}{subparagraph}{\@namedef{#1tocdepth}{5}}{%
22783 \Ifstr{#1}{figure}{\@namedef{#1tocdepth}{1}}{%
22784 \Ifstr{#1}{table}{\@namedef{#1tocdepth}{1}}{%
22785 \expandafter\let\csname #1tocdepth\endcsname
22786 \csname #1numdepth\endcsname
22787 }%
22788 }%
22789 }%
22790 }%
22791 }%
22792 }%
22793 }%
22794 }%
22795 }%
22796 }{}%
22797 \scr@ifundefinedorrelax{scr@tso@#1@indent}{%
22798 \@ifundefined{scr@#1@tocindent}{%
22799 \Ifstrstart{#1}{sub}{%
22800 \scr@ifundefinedorrelax{scr@tso@\scr@dte@nosub{#1}@indent}{%
22801 \scr@ifundefinedorrelax{scr@tso@\scr@dte@nosub{#1}@numwidth}{}%
22802 \expandafter\edef\csname scr@tso@#1@indent\endcsname{%
22803 \glueexpr \noexpand\@nameuse{scr@tso@\scr@dte@nosub{#1}@numwidth}%
22804 \relax
22805 }%
22806 }%
22807 }{}%
22808 \scr@ifundefinedorrelax{scr@tso@\scr@dte@nosub{#1}@numwidth}{%
22809 \expandafter\edef\csname scr@tso@#1@indent\endcsname{%
22810 \glueexpr \noexpand\@nameuse{scr@tso@\scr@dte@nosub{#1}@indent}%
22811 \relax
22812 }%
22813 }{}%
22814 \expandafter\edef\csname scr@tso@#1@indent\endcsname{%

```



```

22815         \glueexpr \noexpand\@nameuse{scr@tso@scr@dte@nosub{#1}@indent}%
22816         +\noexpand\@nameuse{scr@tso@scr@dte@nosub{#1}@numwidth}%
22817         \relax
22818     }%
22819 }%
22820 }%
22821 }{}%
22822 }{%
22823     \namedef{scr@tso@#1@indent}{\@nameuse{scr@#1@tocindent}}%
22824 }%
22825 }{}%
22826 \scr@ifundefinedorrelax{scr@tso@#1@pagenumberwidth}{%
22827     \Ifstrstart{#1}{sub}{%
22828         \scr@ifundefinedorrelax{scr@tso@scr@dte@nosub{#1}@pagenumberwidth}{%
22829             \namedef{scr@tso@#1@pagenumberwidth}{\@pnumwidth}%
22830         }{%
22831             \expandafter\let
22832             \csname scr@tso@#1@pagenumberwidth\expandafter\endcsname
22833             \csname scr@tso@scr@dte@nosub{#1}@pagenumberwidth\endcsname
22834         }%
22835     }{%
22836         \namedef{scr@tso@#1@pagenumberwidth}{\@pnumwidth}%
22837     }%
22838 }{}%
22839 \scr@ifundefinedorrelax{scr@tso@#1@rightindent}{%
22840     \Ifstrstart{#1}{sub}{%
22841         \scr@ifundefinedorrelax{scr@tso@scr@dte@nosub{#1}@rightindent}{%
22842             \namedef{scr@tso@#1@rightindent}{\@tocrmarg}%
22843         }{%
22844             \expandafter\let
22845             \csname scr@tso@#1@rightindent\expandafter\endcsname
22846             \csname scr@tso@scr@dte@nosub{#1}@rightindent\endcsname
22847         }%
22848     }{%
22849         \namedef{scr@tso@#1@rightindent}{\@tocrmarg}%
22850     }%
22851 }{}%
22852 \@ifundefined{scr@tso@#1@indent}{%
22853     \Ifstr{#1}{figure}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
22854     \Ifstr{#1}{table}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
22855     \Ifstr{#1}{part}{\@namedef{scr@tso@#1@indent}{0em}}{%
22856     \Ifstr{#1}{chapter}{\@namedef{scr@tso@#1@indent}{0em}}{%
22857     \scr@ifundefinedorrelax{l@chapter}{%
22858     \Ifstr{#1}{section}{\@namedef{scr@tso@#1@indent}{Opt}}{%
22859     \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
22860     \Ifstr{#1}{subsubsection}{%
22861         \@namedef{scr@tso@#1@indent}{3.8em}%
22862     }{%
22863         \Ifstr{#1}{paragraph}{%
22864             \@namedef{scr@tso@#1@indent}{7em}%
22865         }{%
22866             \Ifstr{#1}{subparagraph}{%
22867                 \@namedef{scr@tso@#1@indent}{10em}%
22868             }{%

```



```

22869         }%
22870     }%
22871 }%
22872 }%
22873 }%
22874 }{%
22875     \Ifstr{#1}{section}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
22876     \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@indent}{3.8em}}{%
22877     \Ifstr{#1}{subsubsection}{%
22878     \@namedef{scr@tso@#1@indent}{7.0em}%
22879     }{%
22880     \Ifstr{#1}{paragraph}{%
22881     \@namedef{scr@tso@#1@indent}{10em}%
22882     }{%
22883     \Ifstr{#1}{subparagraph}{%
22884     \@namedef{scr@tso@#1@indent}{12em}%
22885     }{%
22886     }%
22887     }%
22888     }%
22889     }%
22890     }%
22891     }%
22892     }%
22893     }%
22894     }%
22895     }%
22896 }{}%
22897 \scr@ifundefinedorrelax{scr@tso@#1@numwidth}{%
22898     \scr@ifundefinedorrelax{scr@#1@tocnumwidth}{%
22899     \Ifstrstart{#1}{sub}{%
22900     \scr@ifundefinedorrelax{scr@tso@\scr@dte@nosub{#1}@numwidth}{}%
22901     \expandafter\edef\csname scr@tso@#1@numwidth\endcsname{%
22902     \glueexpr \noexpand\@nameuse{scr@tso@\scr@dte@nosub{#1}@numwidth}%
22903     +.9em%
22904     \relax
22905     }%
22906     }%
22907     }{}%
22908     }{%
22909     \@namedef{scr@tso@#1@numwidth}{\@nameuse{scr@#1@tocnumwidth}}%
22910     }%
22911 }{}%
22912 \@ifundefined{scr@tso@#1@numwidth}{%
22913     \Ifstr{#1}{figure}{\@namedef{scr@tso@#1@numwidth}{2.3em}}{%
22914     \Ifstr{#1}{table}{\@namedef{scr@tso@#1@numwidth}{2.3em}}{%
22915     \Ifstr{#1}{chapter}{\@namedef{scr@tso@#1@numwidth}{1.5em}}{%
22916     \scr@ifundefinedorrelax{chapter}{%
22917     \Ifstr{#1}{section}{\@namedef{scr@tso@#1@numwidth}{1.5em}}{%
22918     \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@numwidth}{2.3em}}{%
22919     \Ifstr{#1}{subsubsection}{%
22920     \@namedef{scr@tso@#1@numwidth}{3.2em}%
22921     }{%
22922     \Ifstr{#1}{paragraph}{%

```



```

22923         \@namedef{scr@tso@#1@numwidth}{4.1em}%
22924     }{%
22925         \Ifstr{#1}{subparagraph}{%
22926             \@namedef{scr@tso@#1@numwidth}{5em}%
22927         }{%
22928             }%
22929         }%
22930     }%
22931 }%
22932 }%
22933 }{%
22934     \Ifstr{#1}{section}{\@namedef{scr@tso@#1@numwidth}{2.3em}}{%
22935         \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@numwidth}{3.2em}}{%
22936             \Ifstr{#1}{subsubsection}{%
22937                 \@namedef{scr@tso@#1@numwidth}{3.1em}%
22938             }{%
22939                 \Ifstr{#1}{paragraph}{%
22940                     \@namedef{scr@tso@#1@numwidth}{5em}%
22941                 }{%
22942                     \Ifstr{#1}{subparagraph}{%
22943                         \@namedef{scr@tso@#1@numwidth}{6em}%
22944                     }{%
22945                         }%
22946                     }%
22947                 }%
22948             }%
22949         }%
22950     }%
22951 }%
22952 }%
22953 }%
22954 }{}%
22955 \expandafter\renewcommand%
22956 \csname scr@tso@#1@LastTOCLevelWasLower\endcsname{\LastTOCLevelWasLower}%
22957 \expandafter\renewcommand%
22958 \csname scr@tso@#1@LastTOCLevelWasSame\endcsname{\LastTOCLevelWasSame}%
22959 \expandafter\renewcommand%
22960 \csname scr@tso@#1@LastTOCLevelWasHigher\endcsname{\LastTOCLevelWasHigher}%
22961 \@ifundefined{scr@tso@#1@beforeskip}{%
22962     \Ifstr{#1}{part}{%
22963         \@namedef{scr@tso@#1@beforeskip}{\glueexpr 2.25em \@plus\p@\relax}%
22964     }{%
22965         \Ifstr{#1}{chapter}{%
22966             \@namedef{scr@tso@#1@beforeskip}{\glueexpr 1.0em \@plus\p@\relax}%
22967         }{%
22968             \Ifstr{#1}{section}{%
22969                 \scr@ifundefinedorrelax{1@chapter}{%
22970                     \@namedef{scr@tso@#1@beforeskip}{\glueexpr 1.0em \@plus\p@\relax}%
22971                 }{}%
22972             }{}%
22973         }%
22974     }%
22975 \expandafter\renewcommand\expandafter*%
22976 \csname scr@tso@#1@beforeskip\endcsname{\glueexpr \z@ plus .2\p@\relax}%

```



```

22977 }{}%
22978 \@ifundefined{scr@dte@#1@maxnumwidth}{%
22979   \expandafter\newlength\csname scr@dte@#1@maxnumwidth\endcsname
22980   \setlength{\@nameuse{scr@dte@#1@maxnumwidth}}{\z@}%
22981 }{}%
22982 \renewcommand*{\scr@dte@donumwidth}{}%
22983 \g@addto@macro{\scr@dte@donumwidth}{\do{#1}}%
22984 \expandafter\renewcommand\expandafter*%
22985 \csname scr@tso@#1@numsep\endcsname{.4em}%
22986 \expandafter\renewcommand%
22987 \csname scr@tso@#1@numberformat\endcsname[1]{##1}%
22988 \Ifstr{#1}{part}{%
22989   \expandafter\providecommand%
22990   \csname scr@tso@#1@entryformat\endcsname[1]{\large\bfseries ##1}%
22991 }{%
22992   \Ifstr{#1}{chapter}{%
22993     \expandafter\providecommand%
22994     \csname scr@tso@#1@entryformat\endcsname[1]{\bfseries ##1}%
22995   }{%
22996     \scr@ifundefinedorrelax{1@chapter}{%
22997       \Ifstr{#1}{section}{%
22998         \expandafter\providecommand%
22999         \csname scr@tso@#1@entryformat\endcsname[1]{\bfseries ##1}%
23000       }{}%
23001     }{}%
23002     \expandafter\providecommand%
23003     \csname scr@tso@#1@entryformat\endcsname[1]{##1}%
23004   }%
23005 }%
23006 \expandafter\renewcommand
23007 \csname Ifscr@tso@#1@breakafternumber\endcsname[2]{##2}%
23008 \@ifundefined{scr@tso@#1@linefill}{%
23009   \Ifstr{#1}{part}{%
23010     \@namedef{scr@tso@#1@linefill}{\hfill}%
23011   }{%
23012     \Ifstr{#1}{chapter}{%
23013       \@namedef{scr@tso@#1@linefill}{\hfill}%
23014     }{%
23015       \scr@ifundefinedorrelax{1@chapter}{%
23016         \Ifstr{#1}{section}{%
23017           \@namedef{scr@tso@#1@linefill}{\hfill}%
23018         }{}%
23019       }{}%
23020     }%
23021     \expandafter\renewcommand%
23022     \csname scr@tso@#1@linefill\endcsname{\TOCLineLeaderFill\relax}%
23023   }%
23024 }{}%
23025 \expandafter\renewcommand\csname Ifscr@tso@#1@raggedpage\endcsname[2]{##2}%
23026 \Ifstr{#1}{part}{%
23027   \expandafter\providecommand%
23028   \csname scr@tso@#1@pagenumberformat\endcsname[1]{\large\bfseries ##1}%
23029 }{%
23030   \Ifstr{#1}{chapter}{%

```



```

23031 \expandafter\providecommand%
23032 \csname scr@tso@#1@pagenumberformat\endcsname[1]{\bfseries ##1}%
23033 }{%
23034 \scr@ifundefinedorrelax{1@chapter}{%
23035 \Ifstr{#1}{section}{%
23036 \expandafter\providecommand%
23037 \csname scr@tso@#1@pagenumberformat\endcsname[1]{\bfseries ##1}%
23038 }{}%
23039 }{}%
23040 \expandafter\providecommand%
23041 \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
23042 {\normalfont\normalcolor ##1}}%
23043 }%
23044 }%
23045 \expandafter\renewcommand%
23046 \csname scr@tso@#1@pagenumberbox\endcsname[1]{%
23047 \hb@xt@{\@nameuse{scr@dte@pagenumberwidth}}{\hfil ##1}}%
23048 \expandafter\renewcommand\csname Ifscr@tso@#1@dynnumwidth\endcsname[2]{##2}%
23049 \expandafter\renewcommand\csname Ifscr@tso@#1@dynindent\endcsname[2]{##2}%
23050 \scr@ifundefinedorrelax{scr@tso@#1@indentfollows}{%
23051 \Ifstrstart{#1}{sub}{%
23052 \expandafter\edef\csname scr@tso@#1@indentfollows\endcsname{%
23053 \scr@dte@nosub{#1}%
23054 }%
23055 }{%
23056 \expandafter\let\csname scr@tso@#1@indentfollows\endcsname\@empty
23057 }%
23058 }{}%
23059 }]{%
23060 \scr@dte@tocline{#1}{##1}{##2}%
23061 }
23062
23063 \renewcommand*{\scr@tso@figure@pagenumberformat}[1]{%
23064 {\normalfont\normalcolor #1}%
23065 }
23066
23067 \renewcommand*{\scr@tso@table@pagenumberformat}[1]{%
23068 {\normalfont\normalcolor #1}%
23069 }
23070

```

## 154 File tocstyle-xetex-bidi.def

```

23071 \ProvidesFile{tocstyle-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for tocstyle package]
23072 \renewcommand*{\tocstyle@dottedtocline}[5]{%
23073 \let\numberline\tocstyle@numberline
23074 \ifnum #1>\c@tocdepth \else
23075 \if@tocstyle@penalties
23076 \begingroup
23077 \@tempcnta 20010
23078 \advance \@tempcnta by -#1
23079 \ifnum \@tempcnta>\lastpenalty
23080 \aftergroup\penalty\aftergroup\@lowpenalty
23081 \fi

```



```

23082 \endgroup
23083 \fi
23084 \edef\tocstyledepth{#1}%
23085 \tocstyle@activate@features
23086 \ifx\tocstyle@feature@entryvskip\relax
23087 \vskip \z@ \@plus.2\p@
23088 \else
23089 \addvspace{\tocstyle@feature@entryvskip}%
23090 \fi
23091 {%
23092 \parskip \z@ \parindent \z@ \if@RTL\rightskip\else\leftskip\fi \z@ \if@RTL\leftskip\el
23093 \tocstyle@feature@raggedhook
23094 \@tempdima #3\relax
23095 \@tempdimb #2\relax
23096 \typeout{m (\tocstyleTOC, \tocstyledepth): \the\@tempdima}%
23097 \ifnum #1>\z@\relax
23098 \@tempcnta #1\relax \advance\@tempcnta \m@ne
23099 \ifcsname tocstyle@skipwidth@\tocstyleTOC @\the\@tempcnta\endcsname
23100 \ifcsname tocstyle@numwidth@\tocstyleTOC @\the\@tempcnta\endcsname
23101 \@tempdimb
23102 \csname tocstyle@skipwidth@\tocstyleTOC @\the\@tempcnta\endcsname
23103 \advance\@tempdimb
23104 \csname tocstyle@numwidth@\tocstyleTOC @\the\@tempcnta\endcsname
23105 \fi
23106 \fi
23107 \fi
23108 \typeout{C (\tocstyleTOC, \tocstyledepth): \the\@tempdimb}%
23109 \ifcsname tocstyle@skipwidth@\tocstyleTOC @#1\endcsname
23110 \ifdim \@tempdimb>
23111 \csname tocstyle@skipwidth@\tocstyleTOC @#1\endcsname\relax
23112 \expandafter\xdef\csname tocstyle@skipwidth@\tocstyleTOC
23113 @#1\endcsname{\the\@tempdimb}%
23114 \fi
23115 \else
23116 \expandafter\xdef\csname tocstyle@skipwidth@\tocstyleTOC
23117 @#1\endcsname{\the\@tempdimb}%
23118 \fi
23119 \iftocstyle@autolength
23120 \ifcsname tocstyle@maxskipwidth@\tocstyleTOC @#1\endcsname
23121 \@tempdimb \csname tocstyle@maxskipwidth@\tocstyleTOC @#1\endcsname
23122 \relax
23123 \fi
23124 \ifcsname tocstyle@maxnumwidth@\tocstyleTOC @#1\endcsname
23125 \@tempdima \csname tocstyle@maxnumwidth@\tocstyleTOC @#1\endcsname
23126 \relax
23127 \fi
23128 \typeout{a (\tocstyleTOC, \tocstyledepth): \the\@tempdima}%
23129 \typeout{A (\tocstyleTOC, \tocstyledepth): \the\@tempdimb}%
23130 \else
23131 \@tempdimb #2\relax
23132 \typeout{M (\tocstyleTOC, \tocstyledepth): \the\@tempdimb}%
23133 \fi
23134 \ifcsname tocstyle@unumwidth@\tocstyleTOC @\endcsname
23135 \ifdim \@tempdima>

```



```

23136      \csname tocstyle@unumwidth@\tocstyleTOC @\endcsname\relax
23137      \expandafter\xdef\csname tocstyle@unumwidth@\tocstyleTOC
23138      @\endcsname{\the\@tempdima}%
23139      \fi
23140    \else
23141      \expandafter\xdef\csname tocstyle@unumwidth@\tocstyleTOC
23142      @\endcsname{\the\@tempdima}%
23143    \fi
23144    \ifcase\tocstyle@indentstyle\relax\else
23145      \@tempdimb \z@
23146      \ifcsname tocstyle@maxunumwidth@\tocstyleTOC @\endcsname
23147      \@tempdima \csname tocstyle@maxunumwidth@\tocstyleTOC @\endcsname
23148      \relax
23149    \fi
23150    \typeout{s (\tocstyleTOC, \tocstyledepth): \the\@tempdima}%
23151    \typeout{S (\tocstyleTOC, \tocstyledepth): \the\@tempdimb}%
23152    \fi
23153    \advance\parindent \@tempdimb\@afterindenttrue
23154    \advance\if@RTL\rightskip\else\leftskip\fi \parindent
23155    \advance\if@RTL\leftskip\else\rightskip\fi \@tocrmarg
23156    \parfillskip -\if@RTL\leftskip\else\rightskip\fi
23157    \ifx\tocstyle@feature@parfillskip\relax\else
23158      \advance\parfillskip \tocstyle@feature@parfillskip\relax
23159    \fi
23160    \interlinepenalty\@M
23161    \leavevmode
23162    \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima
23163    \null\nobreak
23164    \iftocstyle@indentnotnumbered\else
23165      \hskip -\if@RTL\rightskip\else\leftskip\fi
23166    \fi
23167    \tocstyle@feature@entryhook
23168    {#4}\nobreak
23169    \ifx\tocstyle@feature@leaders\relax
23170      \leaders\hbox{$\m@th
23171      \mkern \@dotsep mu\hbox{\tocstyle@feature@dothook .}%
23172      \mkern \@dotsep mu$}\hfill
23173    \else
23174      \tocstyle@feature@leaders
23175    \fi
23176    \nobreak
23177    \ifx\tocstyle@feature@pagenumberbox\relax
23178      \hb@xt@\@pnumwidth{\hfil\tocstyle@feature@pagenumberhook #5}%
23179    \else
23180      \tocstyle@feature@pagenumberbox{\tocstyle@feature@pagenumberhook #5}%
23181    \fi
23182    \par
23183  }%
23184  \if\tocstyle@penalties
23185    \bgroup
23186    \@tempcnta 20009
23187    \advance\@tempcnta by -#1
23188    \edef\reserved@a{\egroup\penalty\the\@tempcnta\relax}%
23189    \reserved@a

```



```

23190 \fi
23191 \fi}
23192 \renewcommand*{\tocstyle@numberline}[1]{%
23193 \begin{group}
23194 \ifx\tocstyle@feature@spaceafternumber\relax
23195 \settowidth\@tempdima{\tocstyle@@numberline{#1}\enskip}%
23196 \else
23197 \settowidth\@tempdima{\tocstyle@@numberline{#1}}%
23198 \advance \@tempdima \tocstyle@feature@spaceafternumber\relax
23199 \fi
23200 \ifcsname tocstyle@numwidth@\tocstyleTOC @\tocstyledepth\endcsname
23201 \ifdim \@tempdima >
23202 \csname tocstyle@numwidth@\tocstyleTOC @\tocstyledepth\endcsname\relax
23203 \expandafter\xdef\csname tocstyle@numwidth@\tocstyleTOC
23204 @\tocstyledepth\endcsname{\the\@tempdima}%
23205 \fi
23206 \else
23207 \expandafter\xdef\csname tocstyle@numwidth@\tocstyleTOC
23208 @\tocstyledepth\endcsname{\the\@tempdima}%
23209 \fi
23210 \endgroup
23211 \iftocstyle@indentnotnumbered
23212 \hskip -\if@RTL\rightskip\else\leftskip\fi
23213 \fi
23214 \ifcase \tocstyle@indentstyle
23215 \hb@xt@\@tempdima{\tocstyle@@numberline{#1}\hfil}%
23216 \or
23217 \hb@xt@\@tempdima{\tocstyle@@numberline{#1}\hfil}%
23218 \else
23219 \ifx\tocstyle@feature@spaceafternumber\relax
23220 \hbox{\tocstyle@@numberline{#1}\enskip}%
23221 \else
23222 \hbox{\tocstyle@@numberline{#1}\hskip
23223 \tocstyle@feature@spaceafternumber\relax}%
23224 \fi
23225 \fi
23226 }
23227 \AtBeginDocument{%
23228 \ifcsname l@part\endcsname
23229 \ifcsname l@chapter\endcsname
23230 \setbox\@tempboxa\vbox{\hsize\maxdimen
23231 \l@part{\tocstyle@l@define{part}{-1}}{}}%
23232 \else
23233 \setbox\@tempboxa\vbox{\hsize\maxdimen
23234 \l@part{\tocstyle@l@define{part}{0}}{}}%
23235 \fi
23236 \fi
23237 \ifcsname l@chapter\endcsname
23238 \setbox\@tempboxa\vbox{\hsize\maxdimen
23239 \l@chapter{\tocstyle@l@define{chapter}{0}}{}}%
23240 \fi
23241 \ifcsname l@section\endcsname
23242 \setbox\@tempboxa\vbox{\hsize\maxdimen
23243 \l@section{\tocstyle@l@define{section}{1}}{}}%

```



```

23244 \fi
23245 \ifcsname l@subsection\endcsname
23246   \setbox\@tempboxa\vbox{\hsize\maxdimen
23247     \l@subsection{\tocstyle@l@define{subsection}{2}}{}}%
23248 \fi
23249 \ifcsname l@subsubsection\endcsname
23250   \setbox\@tempboxa\vbox{\hsize\maxdimen
23251     \l@subsubsection{\tocstyle@l@define{subsubsection}{3}}{}}%
23252 \fi
23253 \ifcsname l@paragraph\endcsname
23254   \setbox\@tempboxa\vbox{\hsize\maxdimen
23255     \l@paragraph{\tocstyle@l@define{paragraph}{4}}{}}%
23256 \fi
23257 \ifcsname l@subparagraph\endcsname
23258   \setbox\@tempboxa\vbox{\hsize\maxdimen
23259     \l@subparagraph{\tocstyle@l@define{subparagraph}{5}}{}}%
23260 \fi
23261 \ifcsname l@table\endcsname
23262   \setbox\@tempboxa\vbox{\hsize\maxdimen
23263     \l@table{\tocstyle@l@define{table}{1}}{}}%
23264 \fi
23265 \ifcsname l@figure\endcsname
23266   \setbox\@tempboxa\vbox{\hsize\maxdimen
23267     \l@figure{\tocstyle@l@define{figure}{1}}{}}%
23268 \fi
23269 \def\@tempa#1#2#3#4#5{%
23270   \ifnum #1>\c@tocdepth \else
23271     \vskip \z@ \@plus.2\p@
23272     {\ifRTL\righskip\else\leftskip\fi #2\relax \ifRTL\leftskip\else\righskip\fi \@toc
23273     \parindent #2\relax\@afterindenttrue
23274     \interlinepenalty\@M
23275     \leavevmode
23276     \@tempdima #3\relax
23277     \advance\ifRTL\righskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\ifRTL\ri
23278     {#4}\nobreak
23279     \leaders\hbox{$\m@th
23280       \mkern \@dotsep mu\hbox{.}\mkern \@dotsep
23281       mu$}\hfill
23282     \nobreak
23283     \hb@xt@\@pnumwidth{{\hfil \normalfont \normalcolor #5}}%
23284     \par}%
23285   \fi}%
23286 \ifx\@dottedtocline\@tempa\else
23287   \tocstyle@macrochangewarning\@dottedtocline
23288 \fi
23289 \let\tocstyle@saved@dottedtocline\@dottedtocline
23290 \def\@tempa#1{\hb@xt@\@tempdima{#1\autodot\hfil}}%
23291 \ifx\numberline\@tempa\else
23292   \def\@tempa#1{\hb@xt@\@tempdima{#1\hfil}}%
23293   \ifx\numberline\@tempa\else
23294     \tocstyle@macrochangewarning\numberline
23295   \fi
23296 \fi
23297 \let\tocstyle@saved@numberline\numberline

```



```

23298 }
23299 \renewcommand*{\tocstyle@l@define}[2]{%
23300   \advance\if@RTL\rightskip\else\leftskip\fi-\@tempdima
23301   \edef\@tempa{%
23302     \noexpand\global\noexpand\let
23303     \expandafter\noexpand\csname tocstyle@saved@l@#1\endcsname
23304     \expandafter\noexpand\csname l@#1\endcsname
23305     \noexpand\gdef
23306     \expandafter\noexpand\csname tocstyle@l@#1\endcsname{%
23307       \noexpand\@dottedtocline{#2}{\the\if@RTL\rightskip\else\leftskip\fi}{\the\@tempdima}}%
23308     \noexpand\g@addto@macro\noexpand\tocstyle@activate@all@l{%
23309       \noexpand\let\expandafter\noexpand\csname l@#1\endcsname
23310       \expandafter\noexpand\csname tocstyle@l@#1\endcsname
23311     }%
23312   }%
23313   \PackageInfo{tocstyle}{prepare \expandafter\string
23314     \csname l@#1\endcsname\space for redefinition}%
23315   \@tempa
23316 }

```

## 155 File todonotes-xetex-bidi.def

```

23317 \ProvidesFile{todonotes-xetex-bidi.def}[2016/11/08 v0.4 bidi adaptations for todonotes packa
23318 \newif\if@bidi@todonotes@textdirection@RTL
23319 \newif\if@bidi@todonotes@figposition@right
23320 \newcommand{\@bidi@todonotes@align}{}%
23321 \define@key{todonotes}{align}{\renewcommand{\@bidi@todonotes@align}{#1}}%
23322 \newcommand{\@bidi@todonotes@textdirection}{}%
23323 \define@choicekey{todonotes}{textdirection}[\@bidi@todonotes@tempa\@bidi@todonotes@tempb]{right,
23324   \ifcase\@bidi@todonotes@tempb\relax
23325     \@bidi@todonotes@textdirection@RTLtrue
23326     \let\@bidi@todonotes@textdirection\RLE
23327   \or
23328     \@bidi@todonotes@textdirection@RTLfalse
23329     \let\@bidi@todonotes@textdirection\LRE
23330   \fi}
23331 \define@choicekey{todonotes}{figposition}[\@bidi@todonotes@tempa\@bidi@todonotes@tempb]{right,
23332   \ifcase\@bidi@todonotes@tempb\relax
23333     \@bidi@todonotes@figposition@righttrue
23334   \or
23335     \@bidi@todonotes@figposition@rightfalse
23336   \fi}
23337 \if@todonotes@disabled%
23338 \else % \if@todonotes@disabled
23339 \renewcommand{\@todonotes@drawInlineNote}{%
23340   \if@todonotes@dviStyle%
23341     {\par\noindent\begin{tikzpicture}[remember picture]%
23342       \draw node[inlinenotestyle] {};\end{tikzpicture}\par}%
23343     \if@todonotes@authorgiven%
23344       {\noindent \@todonotes@sizecommand \@todonotes@author:\,\@todonotes@text}%
23345     \else%
23346       {\noindent \@todonotes@sizecommand \@todonotes@text}%
23347     \fi
23348   {\par\noindent\begin{tikzpicture}[remember picture]%

```



```

23349         \draw node[inlinenotestyle] {};\end{tikzpicture}\par}%
23350     \else%
23351         {\par\noindent\begin{tikzpicture}[remember picture]%
23352             \if@bidi@todonotes@textdirection@RTL\setRTL\fi%
23353             \draw node[inlinenotestyle,font=\@todonotes@sizecommand,align=\@bidi@todonotes@
23354                 \if@todonotes@authorgiven%
23355                     {\noindent \@todonotes@sizecommand \@todonotes@author:\,\@todonotes@text
23356                 \else%
23357                     {\noindent \@todonotes@sizecommand \@todonotes@text}%
23358                 \fi};%
23359             \end{tikzpicture}\par}%
23360     \fi}%
23361 \renewcommand{\@todonotes@drawMarginNoteWithLine}{%
23362 \begin{tikzpicture}[remember picture, overlay, baseline=-0.75ex]%
23363     \node [coordinate] (inText) {};%
23364 \end{tikzpicture}%
23365 \marginpar[{\% Draw note in left margin
23366     \@todonotes@drawMarginNote%
23367     \if@RTL\@todonotes@drawLineToRightMargin\else\@todonotes@drawLineToLeftMargin\fi%
23368 }]{\% Draw note in right margin
23369     \@todonotes@drawMarginNote%
23370     \if@RTL\@todonotes@drawLineToLeftMargin\else\@todonotes@drawLineToRightMargin\fi%
23371 }%
23372 }%
23373 \renewcommand{\@todonotes@drawMarginNote}{%
23374 \if@todonotes@dviStyle%
23375     \begin{tikzpicture}[remember picture]%
23376         \draw node[notestyle] {};%
23377     \end{tikzpicture}\\%
23378     \begin{minipage}{\@todonotes@textwidth}%
23379         \if@todonotes@authorgiven%
23380             \@todonotes@sizecommand \@todonotes@author \@todonotes@text%
23381         \else%
23382             \@todonotes@sizecommand \@todonotes@text%
23383         \fi%
23384     \end{minipage}\\%
23385     \begin{tikzpicture}[remember picture]%
23386         \draw node[notestyle] (inNote) {};%
23387     \end{tikzpicture}%
23388 \else%
23389     \let\originalHbadness\hbadness%
23390     \hbadness 100000%
23391     \begin{tikzpicture}[remember picture,baseline=(X.base)]%
23392         \if@bidi@todonotes@textdirection@RTL\setRTL\fi%
23393         \node(X){\vphantom{X}};%
23394         \draw node[notestyle,font=\@todonotes@sizecommand,anchor=north,align=\@bidi@todonotes@
23395             {\@todonotes@text};%
23396         \if@todonotes@authorgiven%
23397             \draw node[notestyle,font=\@todonotes@sizecommand,anchor=north,align=\@bidi@todonotes@
23398                 {\@todonotes@sizecommand\@todonotes@author};%
23399             \node(Y)[below=of X]{};%
23400             \draw node[notestyle,font=\@todonotes@sizecommand,anchor=north,align=\@bidi@todonotes@
23401                 {\@todonotes@text};%
23402     \else%

```



```

23403         \draw node[notestyle,font=\@todonotes@sizecommand,anchor=north,align=\@bidi@todo
23404             {\@todonotes@text};%
23405         \fi%
23406     \end{tikzpicture}%
23407     \hbadness \originalHbadness%
23408 \fi}%
23409 \renewcommand{\missingfigure}[2] [] {%
23410 \setkeys{todonotes}{#1}%
23411 \addcontentsline{tdo}{todo}{\@todonotes@MissingFigureText: #2}%
23412 \par
23413 \noindent
23414 \begin{tikzpicture}
23415 \draw[fill=\@todonotes@currentfigcolor, draw = black!40, line width=2pt]
23416     (-2, -2.5) rectangle +(\@todonotes@currentfigwidth, \@todonotes@currentfigheight);
23417 \if@bidi@todonotes@figposition@right%
23418 \begin{scope}[xshift=\@todonotes@currentfigwidth-4cm]
23419 \fi%
23420 \draw[red, fill=white, rounded corners = 5pt, line width=10pt]
23421     (30:2cm) -- (150:2cm) -- (270:2cm) -- cycle;
23422 \if@bidi@todonotes@figposition@right%
23423 \end{scope}
23424 \begin{scope}[xshift=-3.8cm]
23425 \fi%
23426 \if@bidi@todonotes@textdirection@RTL\setRTL\fi%
23427 \draw (2, -0.3) node[right, text
23428     width=\@todonotes@currentfigwidth-4.5cm,align=\@bidi@todonotes@align] {#2};
23429 \if@bidi@todonotes@figposition@right%
23430 \end{scope}
23431 \begin{scope}[xshift=\@todonotes@currentfigwidth-4cm]
23432 \fi%
23433 \draw (0, 0.3) node[align=\@bidi@todonotes@align] {\@bidi@todonotes@textdirection{\@todonotes@
23434 \draw (0, -0.3) node[align=\@bidi@todonotes@align] {\@bidi@todonotes@textdirection{\@todonotes@
23435 \if@bidi@todonotes@figposition@right%
23436 \end{scope}
23437 \fi%
23438 \end{tikzpicture}}\hfill
23439 }% Ending \missingfigure command
23440 \fi % Ending \@todonotes@ifdisabled
23441 \presetkeys%
23442     {todonotes}%
23443     {align=left,%
23444     textdirection=lefttoright,%
23445     figposition=left}{}%

```

## 156 File wrapfig-xetex-bidi.def

```

23446 \ProvidesFile{wrapfig-xetex-bidi.def}[2014/04/23 v0.3 bidi adaptations for wrapfig package f
23447 \let\WF@everypar\@everypar
23448 \def\WF@putfigmaybe{%
23449 \ifinner
23450 \vskip-\parskip \global\WF@floatfalse
23451 \let\pagetotal\maxdimen % kludge flag for "not top of page"
23452 \else % outer page
23453 \@tempdima\pagedepth % save page depth

```



```

23454 {\advance\parskip\@tempdima\if@RTL\advance\parskip\baselineskip\fi\vskip-\parskip}% back
23455 \penalty\interlinepenalty % update pg. parameters
23456 \@tempdimb\pagegoal \advance\@tempdimb-\pagetotal % room left on page
23457 \ifdim\@tempdimb<z@ % \WF@info{Page overfull already;}%
23458   \global\WF@floatfalse
23459   \ifdim-\@tempdimb>\pageshrink \else \pagebreak \fi
23460 \else
23461   \ifdim\WF@size>\@tempdimb
23462     \ifWF@float \dimen@.5\baselineskip \else \dimen@ 2\baselineskip\fi
23463     \ifdim\pagestretch>\dimen@ \dimen@\pagestretch \fi
23464     \ifdim\pagefilstretch>z@ \dimen@\@tempdimb \fi
23465     \ifdim\pagefillstretch>z@ \dimen@\@tempdimb \fi
23466     \advance\dimen@.5\baselineskip
23467     \ifdim\dimen@>\@tempdimb % \WF@info{Page nearly full; can stretch}%
23468       \global\WF@floatfalse \pagebreak
23469     \fi
23470   \else % \WF@info{Fits in \the\@tempdimb;}%
23471     \global\WF@floatfalse
23472   \fi\fi
23473   \vskip\@tempdima\relax % (return erased page depth)
23474 \fi
23475 \noindent
23476 \ifWF@float
23477   \WF@fltmes
23478 \else % putting here;
23479   \WF@info{Put \WF@wfname here:}%
23480   {\ifodd\if@twoside\c@page\else\@ne\fi % assign l/r to i/o placement
23481     \lccode`i`l\lccode`o`r\else \lccode`i`r\lccode`o`l\fi
23482     \xdef\WF@place{\the\lccode\lccode\WF@place}}% twice to get only l or r
23483   \hbox to z@{% llap or rlap depending on {l} or {r}; calc effective width
23484     \@tempdima\wd\WF@box \@tempdimb\WF@ovh
23485     \advance\@tempdima-\@tempdimb \advance\@tempdima\columnsep
23486     \@tempdimb\hsize \advance\@tempdimb-\@tempdima
23487     \xdef\WF@adjlw{\the\@tempdima}%
23488     \ifnum `l=\WF@place % fig on left
23489       \if@RTL%
23490         \kern\@tempdimb \kern\columnsep
23491         \def\@tempa{\hss}% position to left of the gap
23492       \else%
23493         \hss % figure overlaps space to the left
23494         \def\@tempa{\kern\columnsep}% position to left of the gap
23495       \fi%
23496     \else % fig on right
23497       \if@RTL%
23498         \hss
23499         \@tempdima\z@
23500         \def\@tempa{\kern\columnsep}
23501       \else%
23502         \@tempdima\z@ % no left indentation
23503         \kern\@tempdimb \kern\columnsep
23504         \def\@tempa{\hss}% figure overlaps space to the right
23505       \fi%
23506     \fi
23507     \ifdim\@tempdimb<\hsize

```



```

23508 \xdef\WF@wrapil{\the\@tempdima \the\@tempdimb}% indentation and length
23509 \xdef\WF@adjtlm{\the\@tempdima}%
23510 \else
23511 \xdef\WF@wrapil{\z@ \the\hsize}%
23512 \xdef\WF@adjlw{\z@}\xdef\WF@adjtlm{\z@}%
23513 \fi
23514 \ifdim\pagetotal=\z@ % \WF@info{Put \WF@wfname at top of p.\thepage}%
23515 \global\advance\WF@size-\intextsep
23516 \else % \WF@info{Putting \WF@wfname in middle of page}%
23517 \setbox\WF@box\hbox{\lower\intextsep\box\WF@box}%
23518 \fi \dp\WF@box\z@ \box\WF@box \@tempa
23519 }% end \hbox to Opt
23520 \aftergroup\WF@startwrapping % after the \endgroup which immediately follows
23521 \fi}

```

## 157 File xcolor-xetex-bidi.def

```

23522 \ProvidesFile{xcolor-xetex-bidi.def}[2022/06/13 v0.3 bidi adaptations for xcolor package for
23523 \long\def\color@b@x#1#2#3%
23524 {\leavevmode\ifmmode\else\ifRTL\beginL\fi\fi
23525 \setbox\z@\hbox{\kern\fbboxsep\set@color\ifRTL\beginR\fi#3\ifRTL\endR\fi}\kern\fbboxsep}%
23526 \dimen@ht\z@\advance\dimen@\fbboxsep\ht\z@\dimen@
23527 \dimen@dp\z@\advance\dimen@\fbboxsep\dp\z@\dimen@
23528 {#1{#2\color@block{\wd\z@}{\ht\z@}{\dp\z@}\box\z@}}\ifmmode\else\ifRTL\endL\fi\fi}
23529 \protected\def\normalcolor{\let\current@color\default@color\ifhmode\ifRTL\beginL\aftergroup
23530 \DeclareRobustCommand\color
23531 {\ifhmode\ifRTL\beginL\aftergroup\endR\fi\fi\@ifnextchar[\@undeclaredcolor\@declaredcolor]}
23532 \def\@undeclaredcolor[#1]#2%
23533 {\begingroup
23534 \let\@cls\@empty
23535 \XC@getmodclr12{#1}{#2}{}%
23536 {\ifblendcolors
23537 \ifx\colorblend\@empty\else
23538 \edef\@mix{\expandafter\@gobble\colorblend}\@tempwafalse
23539 \XC@coremodel\@mod\@clr\@xcolor@{}{}\@mod\@clr
23540 \fi
23541 \fi
23542 \ifconvertcolorsU
23543 \edef\@tmp{\XC@tgt@mod{\@mod}}%
23544 \convertcolorspec\@mod\@clr\@tmp\@clr \let\@mod\@tmp
23545 \fi
23546 \ifmaskcolors
23547 \convertcolorspec\@mod\@clr\XC@mmod\@clr
23548 \let\@mod\XC@mmod
23549 \XC@inflate\@mod\XC@mclr\@clr\@tmp
23550 \expandafter\XC@mul\@tmp,\@clr
23551 \fi
23552 \edef\@tmp{\noexpand\XC@undeclaredcolor{\@mod}{\@clr}}%
23553 \expandafter\endgroup\@tmp}}
23554 \def\@declaredcolor#1%
23555 {\XC@edef\XC@tmp{#1}\XC@tstfalse
23556 \ifcase\XC@type\XC@tmp\relax \XC@tsttrue\or \relax\else
23557 \ifblendcolors\XC@tsttrue\fi \ifmaskcolors\XC@tsttrue\fi
23558 \ifconvertcolorsU\XC@tsttrue\fi

```



```

23559 \fi
23560 \ifXC@@tst
23561 \expandafter\XC@declaredcolor\else
23562 \expandafter\XC@declaredcolor\fi}
23563 \def\XC@undeclaredcolor#1#2%
23564 {\@ifundefinedmodel{#1}%
23565 {\c@lor@error{model `#1'}}%
23566 {\@nameuse{color@#1}\current@color{#2}%
23567 \edef\XC@current@color{\noexpand\xcolor@{}{\current@color}{#1}{#2}}%
23568 \XC@display}\ifhmode\ifRTL\beginR\aftergroup\endL\fi\fi\ignorespaces}
23569 \def\XC@declaredcolor
23570 {\XC@let\Nc\XC@current@color{\string\color\XC@@tmp}%
23571 \edef\current@color{\XC@current@color}%
23572 \XC@display\ifhmode\ifRTL\beginR\aftergroup\endL\fi\fi\ignorespaces}
23573 \DeclareRobustCommand\bidicolor
23574 {\@ifnextchar[\@bidiundeclaredcolor\@bidideclaredcolor}
23575 \def\@bidiundeclaredcolor[#1]#2%
23576 {\begingroup
23577 \let\@cls\@empty
23578 \XC@getmodclr12{#1}{#2}{}%
23579 {\ifblendcolors
23580 \ifx\colorblend\@empty\else
23581 \edef\@mix{\expandafter@gobble\colorblend}\@tempwafalse
23582 \XC@coremodel\@mod\@clr\xcolor@{}{\@mod\@clr
23583 \fi
23584 \fi
23585 \ifconvertcolorsU
23586 \edef\@tmp{\XC@tgt@mod{\@mod}}%
23587 \convertcolorspec\@mod\@clr\@tmp\@clr \let\@mod\@tmp
23588 \fi
23589 \ifmaskcolors
23590 \convertcolorspec\@mod\@clr\XC@mmod\@clr
23591 \let\@mod\XC@mmod
23592 \XC@inflate\@mod\XC@mclr\@clr\@tmp
23593 \expandafter\XC@mul\@tmp,\@clr
23594 \fi
23595 \edef\@tmp{\noexpand\XC@bidiundeclaredcolor{\@mod}{\@clr}}%
23596 \expandafter\endgroup\@tmp}}
23597 \def\XC@bidiundeclaredcolor#1#2%
23598 {\@ifundefinedmodel{#1}%
23599 {\c@lor@error{model `#1'}}%
23600 {\@nameuse{color@#1}\current@color{#2}%
23601 \edef\XC@current@color{\noexpand\xcolor@{}{\current@color}{#1}{#2}}%
23602 \XC@display}}
23603 \def\@bidideclaredcolor#1%
23604 {\XC@edef\XC@@tmp{#1}\XC@@tstfalse
23605 \ifcase\XC@type\XC@@tmp\relax \XC@@tsttrue\or \relax\else
23606 \ifblendcolors\XC@@tsttrue\fi \ifmaskcolors\XC@@tsttrue\fi
23607 \ifconvertcolorsU\XC@@tsttrue\fi
23608 \fi
23609 \ifXC@@tst
23610 \expandafter\XC@bidideclaredcolor\else
23611 \expandafter\XC@bidideclaredcolor\fi}
23612 \def\XC@bidideclaredcolor

```



```

23613 {\XC@split\XC@tmp
23614 \edef\@tmp{\noexpand\@bidiundeclaredcolor[\@mod]{\@clr}}}%
23615 \expandafter\endgroup\@tmp}
23616 \def\XC@bidiundeclaredcolor
23617 {\XC@let\Nc\XC@current@color{\string\color@\XC@tmp}%
23618 \edef\current@color{\XC@current@color}%
23619 \XC@display}
23620 \def\color@box#1#2{\color@b@x\relax{\bidicolor#1{#2}}}
23621 \def\color@fbbox#1#2#3{\protect\color@fb@x{#1}{#2}{#3}}
23622 \def\color@fb@x#1#2#3#4%
23623 {\color@b@x{\fbboxsep\z@\bidicolor#1{#2}\XC@fbbox}%
23624 {\@ifxempty{#3}{\bidicolor#1}{\bidicolor#3}{#4}}}
23625 \def\color@setgroup{\begingroup\ifhmode\if@RTL\beginL\aftergroup\endR\fi\fi\set@color\ifhmode

```

## 158 File latex-xetex-bidi.def

```

23626 \ProvidesFile{latex-xetex-bidi.def}[2022/06/13 v1.4.7 bidi adaptations for `latex.ltx' for
23627 \newcommand{\TeXXeTOn}{\TeXXeTstate@ne}
23628 \newcommand{\TeXXeTOff}{\TeXXeTstate@z@}
23629 \TeXXeTOn
23630 \def\bidi@RTL@everypar{\setbox\z@\lastbox\if@RTL\beginR\else\beginL\fi\ifvoid\z@\else\usebo
23631 \let\bidi@o@everypar=\everypar
23632 \newtoks\bidi@n@everypar
23633 \bidi@n@everypar\expandafter{\the\bidi@o@everypar}
23634 \bidi@o@everypar{\bidi@RTL@everypar\the\bidi@n@everypar}
23635 \let\everypar=\bidi@n@everypar
23636 \def\moreLRE{\bracetext \aftergroup\endL \beginL\@RTLfalse}
23637 \def\moreRLE{\bracetext \aftergroup\endR \beginR\@RTLtrue}
23638 \protected\def\hboxR{\hbox\bgroup
23639 \everyhbox{%
23640 \aftergroup\egroup
23641 \everyhbox{}}%
23642 \beginR
23643 \@hboxRconstructtrue
23644 \bgroup
23645 \aftergroup\endR
23646 \aftergroup\egroup
23647 }\hbox}
23648 \protected\def\hboxL{\hbox\bgroup
23649 \everyhbox{%
23650 \aftergroup\egroup
23651 \everyhbox{}}%
23652 \beginL
23653 \@hboxRconstructfalse
23654 \bgroup
23655 \aftergroup\endL
23656 \aftergroup\egroup
23657 }\hbox}
23658 \protected\def\vboxR{\vbox\bgroup
23659 \everyvbox{%
23660 \aftergroup\egroup
23661 \everyvbox{}}%
23662 \@RTLtrue
23663 \@RTLtabtrue

```



```

23664 \bgroup
23665 \aftergroup\egroup
23666 }\vbox}
23667 \protected\def\vboxL{\vbox\bgroup
23668 \everyvbox{%
23669 \aftergroup\egroup
23670 \everyvbox{}}%
23671 \@RTLfalse
23672 \@RTLtabfalse
23673 \bgroup
23674 \aftergroup\egroup
23675 }\vbox}
23676 \newcommand*{\bidi@leftskip}{\if@RTL\rightskip\else\leftskip\fi}
23677 \newcommand*{\bidi@rightskip}{\if@RTL\leftskip\else\rightskip\fi}
23678 \def\LTR{\par\@RTLfalse\@RTL@footnotefalse\@RTLtabfalse\hsize\linewidth\parshape\z@\bidi@beamer}
23679 \def\endLTR{\par}
23680 \newenvironment{LTR*}{\LTR
23681 \everypar{%
23682 {\setbox\z@\lastbox
23683 \ifvoid\z@
23684 \kern-\parindent
23685 \fi}}%
23686 }%
23687 }\endLTR\@endpetrue}
23688 \def\RTL{\par\@RTLtrue\@RTL@footnotetrue\@RTLtabtrue\hsize\linewidth\parshape\z@\bidi@beamer}
23689 \def\endRTL{\par}
23690 \newenvironment{RTL*}{\RTL
23691 \everypar{%
23692 {\setbox\z@\lastbox
23693 \ifvoid\z@
23694 \kern-\parindent
23695 \fi}}%
23696 }%
23697 }\endRTL\@endpetrue}
23698 \def\setRTL{\@RTLtrue\@RTL@footnotetrue\@RTLtabtrue\bidi@beamer@ragged}
23699 \def\setLTR{\@RTLfalse\@RTL@footnotefalse\@RTLtabfalse\bidi@beamer@ragged}
23700 \let\unsetRTL=\setRTL
23701 \let\unsetLTR=\setLTR
23702 \let\LR=\LRE
23703 \let\RL=\RLE
23704 \def\@ensure@RTL#1{\if@RTL#1\else\RLE{#1}\fi}
23705 \def\@ensure@LTR#1{\if@RTL\LRE{#1}\else#1\fi}
23706 \let\@ensure@RL=\@ensure@RTL
23707 \let\@ensure@LR=\@ensure@LTR
23708 \def\@ensure@dir#1{\if@RTL\RLE{#1}\else{#1}\fi}
23709 \let\@ensure@maindir=\@ensure@dir
23710 \def\@RTL{RTL}
23711 \def\@LTR{LTR}
23712 \def\save@dir{\if@RTL\gdef\saved@dir{RTL}\else\gdef\saved@dir{LTR}\fi}
23713 \def\reset@dir{\ifx\saved@dir\@RTL\setRTL\else\ifx\saved@dir\@LTR\setLTR\else\relax\fi}
23714 \let\@TeX\TeX
23715 \def\TeX{\@ensure@LTR{\@TeX}}
23716 \let\@LaTeX\LaTeX
23717 \def\LaTeX{\@ensure@LTR{\@LaTeX}}

```



```

23718 \let\@@LaTeXe\LaTeXe
23719 \def\LaTeXe{\@ensure@LTR{\@@LaTeXe}}
23720 \long\def\ bidi@reflect@box#1{%
23721   \leavevmode
23722   \setbox\z@\hbox{\{#1\}}%
23723   \setbox\tw@\hbox{\special{x:gsave}\special{x:scale -1 1}\rlap{\copy\z@}\special{x:grestore}}
23724   \hb@xt@\wd\z@{\kern\wd\z@\box\tw@\hss}%
23725 }
23726 \bidi@newrobustcmd*\XeTeX{\LR{\leavevmode$\smash{\hbox{X\lower.5ex
23727   \hbox{\kern-.125em\bidi@reflect@box{E}}\kern-.1667em \TeX}}$}}
23728 \bidi@newrobustcmd*\XeLaTeX{\LR{\leavevmode$\smash{\hbox{X\lower.5ex
23729   \hbox{\kern-.125em\bidi@reflect@box{E}}\kern-.1667em \LaTeX}}$}}
23730 \let\setRL=\setRTL
23731 \let\setLR=\setLTR
23732 \let\unsetRL=\setLTR
23733 \def\bidi@tabular@RTLcases{\let\@halignto\@empty\@bidi@tabular@RTLcases}
23734 \@ifpackageloaded{array}{%
23735 \def\@bidi@tabular@RTLcases{\@RTLtabtrue%
23736   \leavevmode
23737   \hbox \bgroup $\left.\col@sep\tabcolsep \let\dollarbegin\begin\group
23738                                     \let\dollarend\end\group
23739   \@tabarray}
23740 \def\endbidi@tabular@RTLcases{\endarray \right\rbrace$\egroup}
23741 }{%
23742 \def\@bidi@tabular@RTLcases{\@RTLtabtrue%
23743   \leavevmode \hbox \bgroup
23744   $\left.\let\@acol\@tabacol
23745   \let\@classz\@tabclassz
23746   \let\@classiv\@tabclassiv \let\\\@tabularcr\@tabarray}
23747 }
23748 \def\endbidi@tabular@RTLcases{\crr\egroup\if@RTLtab\egroup\endR\egroup\fi
23749   \egroup\right\rbrace $\egroup}}
23750 \def\RTLcases#1{\left.\vcenter{\normalbaselines\m@th
23751   \ialign{$##\hfil$\&\quad{##}\hfil\crr#1\crr}}\,,\right\}}
23752 \renewenvironment{RTLcases}{%
23753   \bidi@matrix@check\RTLcases\env@RTLcases
23754 }{%
23755   \endbidi@tabular@RTLcases%
23756 }
23757 \def\env@RTLcases{%
23758   \let\@ifnextchar\bidi@new@ifnextchar
23759   \def\arraystretch{1.2}%
23760   \bidi@tabular@RTLcases{@{}r@{\quad}r@{}}%
23761 }
23762 \def\SepMark#1{\gdef\@SepMark{#1}}
23763 \SepMark{.}
23764 \def\@thmcountersep{\@SepMark}
23765 \def\setRTLbibitems{\@RTLbibitemstrue\@LTRbibitemsfalse}
23766 \def\setLTRbibitems{\@LTRbibitemstrue\@RTLbibitemsfalse}
23767 \def\setdefaultbibitems{\@RTLbibitemsfalse\@LTRbibitemsfalse}
23768 \newcommand*\bidi@thebibliography@font@hook{}
23769 \def\list#1#2{%
23770   \ifnum \@listdepth >5\relax
23771     \@toodeep

```



```

23772 \else
23773   \global\advance\@listdepth\@ne
23774 \fi
23775 \rightmargin\z@
23776 \listparindent\z@
23777 \itemindent\z@
23778 \csname @list\romannumeral\the\@listdepth\endcsname
23779 \def\@itemlabel{#1}%
23780 \let\makelabel\@mklab
23781 \@nmblistfalse
23782 #2\relax
23783 \@trivlist
23784 \parskip\parsep
23785 \parindent\listparindent
23786 \advance\linewidth -\rightmargin
23787 \advance\linewidth -\leftmargin
23788 \if@bidi@list@minipage@parbox
23789 \ifRTL
23790 \advance\@totalleftmargin \leftmargin
23791 \else
23792 \advance\@totalleftmargin \rightmargin
23793 \fi
23794 \else
23795 \if@hboxRconstruct
23796 \if@bidi@list@minipage@parbox@not@nob
23797 \ifRTL
23798   \advance\@totalleftmargin \rightmargin
23799 \else
23800   \advance\@totalleftmargin \leftmargin
23801 \fi
23802 \else
23803 \ifRTL
23804 \advance\@totalleftmargin \leftmargin
23805 \else
23806 \advance\@totalleftmargin \rightmargin
23807 \fi\fi
23808 \else
23809 \ifRTL
23810   \advance\@totalleftmargin \rightmargin
23811 \else
23812   \advance\@totalleftmargin \leftmargin
23813 \fi\fi\fi
23814 \parshape \@ne \@totalleftmargin \linewidth
23815 \ignorespaces}
23816 \long\def\@iiiiparbox#1#2[#3]#4#5{%
23817 \leavevmode
23818 \@pboxswfalse
23819 \if@hboxRconstruct
23820   \@bidi@list@minipage@parbox@not@nobtrue
23821 \fi
23822 \ifRTL
23823   \ifx#1t%
23824     \@bidi@list@minipage@parboxtrue
23825   \else

```



```

23826     \ifx#1b%
23827         \@bidi@list@minipage@parboxtrue
23828     \fi
23829 \fi
23830 \fi
23831 \setlength\@tempdima{#4}%
23832 \@begin@tempboxa\vbox{\hsize\@tempdima\@parboxrestore#5\@par}%
23833     \ifx\relax#2\else
23834         \setlength\@tempdimb{#2}%
23835         \edef\@parboxto{to\the\@tempdimb}%
23836     \fi
23837     \if#1b\vbox
23838     \else\if #1t\vtop
23839     \else\ifmmode\vcenter
23840     \else\@pboxswtrue $\vcenter
23841     \fi\fi\fi
23842     \@parboxto{\let\hss\vss\let\unhbox\unvbox
23843         \csname bm@#3\endcsname}%
23844     \if@pboxsw \m@th$\fi
23845 \end@tempboxa}
23846 \newenvironment{LTRitems}
23847     {\par\@RTLfalse\@RTLtabfalse\bidi@beamer@ragged
23848     \if@bidi@list@minipage@parbox
23849     \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth
23850     \else \if@hboxRconstruct\if@bidi@list@minipage@parbox@not@nob
23851     \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth\else
23852     \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth\fi
23853     \else \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth\fi
23854     \ignorespaces}{\vskip\z@}
23855 \newenvironment{RTLitems}
23856     {\par\@RTLtrue\@RTLtabtrue\bidi@beamer@ragged
23857     \if@bidi@list@minipage@parbox
23858     \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth
23859     \else \if@hboxRconstruct\if@bidi@list@minipage@parbox@not@nob
23860     \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth\else
23861     \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth\fi
23862     \else \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth\fi
23863     \ignorespaces}{\vskip\z@}
23864 \newenvironment{LTRbibitems}
23865     {\par\@RTLfalse\@RTLtabfalse\bidi@beamer@ragged
23866     \if@bidi@list@minipage@parbox
23867     \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth
23868     \else \if@hboxRconstruct\if@bidi@list@minipage@parbox@not@nob
23869     \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth\else
23870     \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth\fi
23871     \else \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth\fi
23872     \ignorespaces}{\vskip\z@}
23873 \newenvironment{RTLbibitems}
23874     {\par\@RTLtrue\@RTLtabtrue\bidi@beamer@ragged
23875     \if@bidi@list@minipage@parbox
23876     \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth
23877     \else \if@hboxRconstruct\if@bidi@list@minipage@parbox@not@nob
23878     \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth\else
23879     \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth\fi

```



```

23880          \else \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth\fi
23881          \ignorespaces}{\vskip\z@}
23882 \def\raggedright{%
23883   \let\\\@centercr\@rightskip\@flushglue \rightskip\@rightskip
23884   \leftskip\z@skip
23885   \parindent\z@\parfillskip\z@skip}
23886 \let\bidiorig@raggedleft\raggedleft
23887 \let\bidiorig@raggedright\raggedright
23888 \renewcommand\raggedleft{\if@bidi@list@minipage@parbox\bidiorig@raggedright\else\if@hboxRco
23889 \renewcommand\raggedright{\if@bidi@list@minipage@parbox\bidiorig@raggedleft\else\if@hboxRco
23890 \newcommand{\bidioraggedright}{\if@RTL\raggedleft\else\raggedright\fi}
23891 \newcommand{\bidioraggedleft}{\if@RTL\raggedright\else\raggedleft\fi}
23892 \def\centerline#1{%
23893 \if@RTL\@@line{\hss\beginR#1\endR\hss}
23894 \else\@@line{\hss#1\hss}\fi}
23895 \def\leftline#1{%
23896 \if@RTL\@@line{\beginR#1\endR\hss}
23897 \else\@@line{#1\hss}\fi}
23898 \def\rightline#1{%
23899 \if@RTL\@@line{\hss\beginR#1\endR}
23900 \else\@@line{\hss#1}\fi}
23901 \let\bidiorig@leftline\leftline
23902 \let\bidiorig@rightline\rightline
23903 \def\leftline#1{\ifhmode\if@RTL\bidiorig@rightline{#1}\else\bidiorig@leftline{#1}\fi\else\
23904 \def\rightline#1{\ifhmode\if@RTL\bidiorig@leftline{#1}\else\bidiorig@rightline{#1}\fi\else\
23905 \def\bidirlap#1{\hb@xt@{\z@}{\if@RTL\hss\fi#1\if@RTL\else\hss\fi}}
23906 \def\bidillap#1{\hb@xt@{\z@}{\if@RTL\else\hss\fi#1\if@RTL\hss\fi}}
23907 \def\@hangfrom#1{\setbox\@tempboxa\hbox{{#1}}}%
23908   \hangindent \if@RTL-\else\fi\wd\@tempboxa\noindent\box\@tempboxa}
23909 \def\narrower{%
23910   \advance\if@RTL\rightskip\else\leftskip\fi\parindent
23911   \advance\if@RTL\leftskip\else\rightskip\fi\parindent}
23912 \def\underline#1{%
23913   \relax
23914   \ifmmode\@@underline{#1}%
23915   \else
23916 \if@RTL $\@@underline{\hbox{\beginR#1\endR}}\m@th$\relax
23917 \else
23918 $\@@underline{\hbox{#1}}\m@th$\relax\fi\fi}
23919 \if@compatibility
23920   \let\undertext=\underline
23921 \fi
23922 \def\@tabular{%
23923   \leavevmode \hbox \bgroup \if@RTLtab\beginR \fi
23924   $\let\@acol\@tabacol
23925   \let\@classz\@tabclassz
23926   \let\@classiv\@tabclassiv \let\\\@tabularcr\@tabarray}
23927 \def\endtabular{\crr\egroup\if@RTLtab\egroup\endR\egroup\fi
23928   \egroup $\if@RTLtab\endR\fi\egroup}
23929 \expandafter \let \csname endtabular*\endcsname = \endtabular
23930 \def\@array[#1]#2{%
23931   \if #1t\top \else \if#1b\box \else \vcenter \fi\fi
23932   \bgroup
23933   \setbox\@arstrutbox\hbox{%

```



```

23934 \vrule \@height\arraystretch\ht\strutbox
23935 \@depth\arraystretch \dp\strutbox
23936 \@width\z@}%
23937 \@mkpream{#2}%
23938 \edef\@preamble{%
23939 \ialign \noexpand\@halignto
23940 \bgroup \@arstrut \@preamble \tabskip\z@skip \cr}%
23941 \let\@startpbox\@startpbox \let\@endpbox\@endpbox
23942 \let\tabularnewline\%
23943 \let\par\@empty
23944 \let\@sharp##%
23945 \set@typeset@protect
23946 \lineskip\z@skip\baselineskip\z@skip
23947 \ifhmode \@preamerr\z@ \@@par\fi
23948 \if@RTLtab\hbox\bgroup\beginR\@hboxRconstructtrue\if #1t\top \else \vbox \fi\bgroup\fi
23949 \@preamble}
23950 \def\array{\let\@acol\@arrayacol \let\@classz\@arrayclassz
23951 \let\@classiv\@arrayclassiv
23952 \let\\\@arraycr\let\@halignto\@empty\@RTLtabfalse\@tabarray}
23953 \def\@testpach#1{\@chclass \ifnum \@lastchclass=\tw@ 4 \else
23954 \ifnum \@lastchclass=3 5 \else
23955 \z@ \if #1c\@chnum \z@ \else
23956 \if \if@RTLtab#1r\else#1l\fi\@chnum \@ne \else
23957 \if \if@RTLtab#1l\else#1r\fi\@chnum \tw@ \else
23958 \@chclass \if #1|\@ne \else
23959 \if #1@\tw@ \else
23960 \if #1p3 \else \z@ \@preamerr 0\fi
23961 \fi \fi \fi \fi \fi \fi
23962 \fi}
23963 \def\bm@l{\if@RTL\hss\unhbox\@tempboxa\else\unhbox\@tempboxa\hss\fi}
23964 \def\bm@r{\if@RTL\unhbox\@tempboxa\hss\else\hss\unhbox\@tempboxa\fi}
23965 \def\bm@t{\unhbox\@tempboxa\hss}
23966 \def\bm@b{\hss\unhbox\@tempboxa}
23967 \def\@dottedtocline#1#2#3#4#5{%
23968 \ifnum #1>\c@tocdepth \else
23969 \vskip \z@ \@plus.2\p@
23970 {\if@RTL\righskip\else\leftskip\fi #2\relax \if@RTL\leftskip\else\righskip\fi \@tocrm
23971 \parindent #2\relax\@afterindenttrue
23972 \interlinepenalty\@M
23973 \leavevmode
23974 \@tempdima #3\relax
23975 \advance\if@RTL\righskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\righ
23976 {#4}\nobreak
23977 \leaders\hbox{$\m@th
23978 \mkern \@dotsep mu\hbox{.}\mkern \@dotsep
23979 mu$}\hfill
23980 \nobreak
23981 \hb@xt@\@pnumwidth{\hfil\normalfont \normalcolor #5}}%
23982 \par}%
23983 \fi}
23984
23985 \newcount\@bidi@column@check@number
23986
23987 \def\@bidi@column@status#1{\gdef\@bidi@current@column@status{#1}}

```



```

23988
23989 \def\ bidi@set@column@status#1#2{%
23990   \global\expandafter\let\csname #1\endcsname\ bidi@current@column@status}
23991
23992 \if@twocolumn
23993 \newcommand\DetectColumn[3][1]{%
23994   \ifx\ bidi@firstcolumn@status\write\relax
23995     \PackageError{bidi}%
23996       {Option 'DetectColumn' not selected}%
23997       {\string\DetectColumn\space
23998         requires the use of the 'DetectColumn'
23999         option on the package}%
24000   \fi
24001   \global\advance\ bidi@column@check@number\@ne
24002   \edef\ bidi@column@type{\expandafter\ifx
24003     \csname bidi@column-\the\ bidi@column@check@number\endcsname\relax
24004     0\else
24005     \csname bidi@column-\the\ bidi@column@check@number\endcsname
24006     \fi}%
24007   \ifcase \ bidi@column@type\relax
24008     \ifcase #1\or #2\or#3\fi % 0 not known use first column as default
24009   \or
24010     #2% % 1 First column
24011   \or
24012     #3% % 2 Second (Last column)
24013   \else
24014     \ERROR
24015   \fi
24016   \edef\next{\write\@auxout
24017     {\string\ bidi@set@column@status{\ bidi@column-\the\ bidi@column@check@number}%
24018       {\ bidi@column@type}}}%
24019   \next
24020 }
24021
24022 \AtEndDocument{\def\ bidi@set@column@status#1#2{%
24023   \ifnum #2=\ bidi@current@column@status\else
24024     \@tempwatrue
24025   \fi}%
24026 }
24027 \fi
24028
24029 \def\RTL@outputdblcol{%
24030   \if@firstcolumn
24031     \global\@firstcolumnfalse
24032     \global\setbox\@leftcolumn\copy\@outputbox
24033     \splitmaxdepth\maxdimen
24034     \vbadness\maxdimen
24035     \setbox\@outputbox\vbox{\unvbox\@outputbox\unskip}%
24036     \setbox\@outputbox\vsplit\@outputbox to\maxdimen
24037     \toks@\expandafter{\topmark}%
24038     \xdef\@firstcoltopmark{\the\toks@}%
24039     \toks@\expandafter{\splitfirstmark}%
24040     \xdef\@firstcolfirstmark{\the\toks@}%
24041     \ifx\@firstcolfirstmark\@empty

```



```

24042     \global\let\@setmarks\relax
24043   \else
24044     \gdef\@setmarks{%
24045       \let\firstmark\@firstcolfirstmark
24046       \let\topmark\@firstcoltopmark}%
24047   \fi
24048 \else
24049   \global\@firstcolumntrue
24050   \setbox\@outputbox\vbox{%
24051     \hb@xt@\textwidth{%
24052       \hskip \columnwidth
24053       \hfil
24054       {\normalcolor\vrule \@width\columnseprule}%
24055       \hfil
24056       \hb@xt@\columnwidth{%
24057         \bidi@firstcolumn@status@write%
24058         \box\@leftcolumn \hss}%
24059       \hskip -\textwidth
24060       \hb@xt@\columnwidth{%
24061         \bidi@lastcolumn@status@write%
24062         \box\@outputbox \hss}%
24063       \hskip \columnsep
24064       \hskip \columnwidth }}%
24065   \@combinedblfloats
24066   \@setmarks
24067   \@outputpage
24068   \begingroup
24069     \@dblfloatplacement
24070     \@startdblcolumn
24071     \@whiles\if@fcolmade \fi{\@outputpage
24072       \@startdblcolumn}%
24073   \endgroup
24074 \fi}%
24075
24076 \def\LTR@outputdblcol{%
24077   \if@firstcolumn
24078     \global\@firstcolumnfalse
24079     \global\setbox\@leftcolumn\copy\@outputbox
24080     \splitmaxdepth\maxdimen
24081     \vbadness\maxdimen
24082     \setbox\@outputbox\vbox{\unvbox\@outputbox\unskip}%
24083     \setbox\@outputbox\vsplit\@outputbox to\maxdimen
24084     \toks@\expandafter{\topmark}%
24085     \xdef\@firstcoltopmark{\the\toks@}%
24086     \toks@\expandafter{\splitfirstmark}%
24087     \xdef\@firstcolfirstmark{\the\toks@}%
24088     \ifx\@firstcolfirstmark\@empty
24089       \global\let\@setmarks\relax
24090     \else
24091       \gdef\@setmarks{%
24092         \let\firstmark\@firstcolfirstmark
24093         \let\topmark\@firstcoltopmark}%
24094   \fi
24095 \else

```



```

24096 \global\@firstcolumntrue
24097 \setbox\@outputbox\vbox{%
24098 \hb@xt@\textwidth{%
24099 \hb@xt@\columnwidth{%
24100 \bidi@firstcolumn@status@write%
24101 \box\@leftcolumn \hss}%
24102 \hfil
24103 {\normalcolor\vrule \@width\columnseprule}%
24104 \hfil
24105 \hb@xt@\columnwidth{%
24106 \bidi@lastcolumn@status@write%
24107 \box\@outputbox \hss}}}%
24108 \@combinedblfloats
24109 \@setmarks
24110 \@outputpage
24111 \begingroup
24112 \@dblfloatplacement
24113 \@startdblcolumn
24114 \@whiles\if@fcolmade \fi{\@outputpage
24115 \@startdblcolumn}%
24116 \endgroup
24117 \fi}%
24118
24119
24120 \renewcommand{\@outputdblcol}{\if@RTLmain\RTL@outputdblcol\else\LTR@outputdblcol\fi}
24121 \newcommand{\RTLdblcol}{\renewcommand{\@outputdblcol}{\RTL@outputdblcol}}
24122 \newcommand{\LTRdblcol}{\renewcommand{\@outputdblcol}{\LTR@outputdblcol}}
24123
24124 \bidi@patchcmd\@makecol{%
24125 \ifvoid\footins
24126 \setbox\@outputbox \box\@cclv
24127 \else
24128 \setbox\@outputbox \vbox {%
24129 \boxmaxdepth \@maxdepth
24130 \unvbox \@cclv
24131 \vskip \skip\footins
24132 \color@begingroup
24133 \normalcolor
24134 \footnoterule
24135 \unvbox \footins
24136 \color@endgroup
24137 }%
24138 \fi
24139 }{%
24140 \ifvoid\footins
24141 \ifvoid\@bidi@copyins@
24142 \setbox\@outputbox \box\@cclv
24143 \else
24144 \setbox\@outputbox \vbox {%
24145 \boxmaxdepth \@maxdepth
24146 \unvbox \@cclv
24147 \vskip \skip\@bidi@copyins@
24148 \color@begingroup
24149 \normalcolor

```



```

24150         \unvbox \@bidi@copyins@
24151         \color@endgroup
24152     }%
24153     \fi
24154     \else
24155         \setbox\@outputbox \vbox {%
24156             \boxmaxdepth \@maxdepth
24157             \unvbox \@cclv
24158             \vskip \skip\footins
24159             \color@begingroup
24160                 \normalcolor
24161                 \footnoterule
24162                 \unvbox \footins
24163             \color@endgroup
24164             \ifvoid\@bidi@copyins@
24165             \else
24166                 \vskip \skip\@bidi@copyins@
24167                 \color@begingroup
24168                 \normalcolor
24169                 \unvbox \@bidi@copyins@
24170                 \color@endgroup
24171             \fi
24172         }%
24173     \fi
24174 }{}{}
24175
24176 \def\LTRmarginpar{%
24177     \ifhmode
24178         \@bsphack
24179         \@floatpenalty -\@Mii
24180     \else
24181         \@floatpenalty-\@Miii
24182     \fi
24183     \ifinner
24184         \@parmoderr
24185         \@floatpenalty\z@
24186     \else
24187         \@next\@currbox\@freelist{}{}%
24188         \@next\@marbox\@freelist{\global\count\@marbox\m@ne}%
24189         {\@floatpenalty\z@
24190         \@fltovf\def\@currbox{\@tempboxa}\def\@marbox{\@tempboxa}}%
24191     \fi
24192     \ifnextchar [\@LTRxmpar\@LTRympar}
24193 \long\def\@LTRxmpar[#1]#2{%
24194     \@LTRsavemarbox\@marbox{#1}%
24195     \@LTRsavemarbox\@currbox{#2}%
24196     \@xympar}
24197 \long\def\@LTRympar#1{%
24198     \@LTRsavemarbox\@marbox{#1}%
24199     \global\setbox\@currbox\copy\@marbox
24200     \@xympar}
24201 \long\def \@LTRsavemarbox #1#2{%
24202     \global\setbox #1%
24203     \color@vbox

```



```

24204      \vtop{%
24205          \hsize\marginparwidth
24206          \@parboxrestore
24207          \@LTRmarginparreset
24208          #2%
24209          \@minipagefalse
24210          \outer@nobreak
24211      }%
24212      \color@endbox
24213 }
24214 \def \@LTRmarginparreset {%
24215     \reset@font
24216     \normalsize
24217     \@minipagetrue
24218     \everypar{\@minipagefalse\everypar{}\beginL}%
24219 }
24220 \def \RTLmarginpar{%
24221     \ifhmode
24222         \@bsphack
24223         \@floatpenalty -\@Mii
24224     \else
24225         \@floatpenalty -\@Miii
24226     \fi
24227     \ifinner
24228         \@parmoderr
24229         \@floatpenalty\z@
24230     \else
24231         \@next\@currbox\@freelist{}\{}%
24232         \@next\@marbox\@freelist{\global\count\@marbox\m@ne}%
24233         {\@floatpenalty\z@
24234         \@fltovf\def\@currbox{\@tempboxa}\def\@marbox{\@tempboxa}}%
24235     \fi
24236     \ifnextchar [\@RTLxmpar\@RTLympar}
24237 \long\def\@RTLxmpar[#1]#2{%
24238     \@RTLSavemarbox\@marbox{#1}%
24239     \@RTLSavemarbox\@currbox{#2}%
24240     \@xympar}
24241 \long\def\@RTLympar#1{%
24242     \@RTLSavemarbox\@marbox{#1}%
24243     \global\setbox\@currbox\copy\@marbox
24244     \@xympar}
24245 \long\def \@RTLSavemarbox #1#2{%
24246     \global\setbox #1%
24247     \color@vbox
24248     \vtop{%
24249         \hsize\marginparwidth
24250         \@parboxrestore
24251         \@RTLmarginparreset
24252         #2%
24253         \@minipagefalse
24254         \outer@nobreak
24255     }%
24256     \color@endbox
24257 }

```



```

24258 \def \@RTLmarginparreset {%
24259     \reset@font
24260     \normalsize
24261     \@minipagetrue
24262     \everypar{\@minipagefalse\everypar{}\beginR}%
24263 }
24264 \def\@addmarginpar{\@next\@marbox\@currlist{\@cons\@freelist\@marbox
24265     \@cons\@freelist\@currbox}\@latexbug\@tempcnta\@ne
24266     \if@twocolumn
24267         \if@firstcolumn \@tempcnta\m@ne \fi
24268     \else
24269         \if@mparswitch
24270             \ifodd\c@page \else\@tempcnta\m@ne \fi
24271         \fi
24272         \if@reversemargin \@tempcnta -\@tempcnta \fi
24273     \fi
24274     \ifnum\@tempcnta <\z@ \global\setbox\@marbox\box\@currbox \fi
24275     \@tempdima\@mparbottom
24276     \advance\@tempdima -\@pageht
24277     \advance\@tempdima\ht\@marbox
24278     \ifdim\@tempdima >\z@
24279         \@latex@warning@no@line {Marginpar on page \thepage\space moved}%
24280     \else
24281         \@tempdima\z@
24282     \fi
24283     \global\@mparbottom\@pageht
24284     \global\advance\@mparbottom\@tempdima
24285     \global\advance\@mparbottom\dp\@marbox
24286     \global\advance\@mparbottom\marginparpush
24287     \advance\@tempdima -\ht\@marbox
24288     \global\setbox \@marbox
24289         \vbox {\vskip \@tempdima
24290             \box \@marbox}%
24291     \global \ht\@marbox \z@
24292     \global \dp\@marbox \z@
24293     \kern -\@pagedp
24294     \nointerlineskip
24295     \hb@xt@\columnwidth
24296     {\if@RTL\if@LTRmarginpar\beginL\else\beginR\fi\else\if@RTLmarginpar\beginR\else\beginL
24297         \hskip\columnwidth \hskip\marginparsep
24298     \else
24299         \hskip -\marginparsep \hskip -\marginparwidth
24300     \fi
24301     \box\@marbox \hss\if@RTL\if@LTRmarginpar\endL\else\endR\fi\else\if@RTLmarginpar\endR
24302     \nointerlineskip
24303     \hbox{\vrule \@height\z@ \@width\z@ \@depth\@pagedp}}
24304 \long\def\@ympar#1{%
24305     \@savemarbox\@marbox{\if@RTL\if@LTRmarginpar\@RTLfalse\else\@RTLtrue\fi\else\if@RTLmarginpar
24306     \global\setbox\@currbox\copy\@marbox
24307     \@xympar}
24308 \def\setRTLmarginpar{\@RTLmarginpartrue\@LTRmarginparfalse}
24309 \def\setLTRmarginpar{\@LTRmarginpartrue\@RTLmarginparfalse}
24310 \def\setdefaultmarginpar{\@RTLmarginparfalse\@LTRmarginparfalse}
24311 \def\@stopline{\unskip\@stopfield\if@rjfield \global\@rjfieldfalse

```



```

24312 \@tempdima\@totalleftmargin \advance\@tempdima\linewidth
24313 \hbox to\@tempdima{\if@RTL\beginR\fi\@itemfudge\hskip\dimen\@curtabmar
24314 \box\@curline\hfil\box\@curfield\if@RTL\endR\fi}\else\@addfield
24315 \hbox to\linewidth{\if@RTL\beginR\fi\@itemfudge
24316 \hskip\dimen\@curtabmar\box\@curline\hfil\if@RTL\endR\fi}%
24317 \fi}
24318
24319 \newcommand*{\bidi@font@@outputpage}{}
24320
24321 \def\@outputpage{%
24322 \begingroup % the \endgroup is put in by \aftergroup
24323 \let \protect \noexpand
24324 \@resetactivechars
24325 \global\let\@@if@newlist\if@newlist
24326 \global\@newlistfalse
24327 \@parboxrestore
24328 \global\let\bidi@BeforeOutputPageShipOut\@firstofone
24329 \bidi@beforeoutputpageshipouthook
24330 \shipout \vbox{%
24331 \set@typeset@protect
24332 \aftergroup \endgroup
24333 \aftergroup \set@typeset@protect
24334 % correct? or just restore by ending
24335 % the group?
24336 \if@specialpage
24337 \global\@specialpagefalse\@nameuse{ps@\@specialstyle}%
24338 \fi
24339 \if@twoside
24340 \ifodd\count\z@ \let\@thehead\@oddhead \let\@thefoot\@oddfoot
24341 \if@RTLmain
24342 \let\@themargin\evensidemargin
24343 \else
24344 \let\@themargin\oddsidemargin
24345 \fi
24346 \else \let\@thehead\@evenhead \let\@thefoot\@evenfoot
24347 \if@RTLmain
24348 \let\@themargin\oddsidemargin
24349 \else
24350 \let\@themargin\evensidemargin
24351 \fi
24352 \fi
24353 \ifx\@thehead\@empty \let\@thehead\hfil \fi
24354 \ifx\@thefoot\@empty \let\@thefoot\hfil \fi
24355 \else %% not @twoside
24356 \ifx\@oddhead\@empty \let\@thehead\hfil \fi
24357 \ifx\@oddfoot\@empty \let\@thefoot\hfil \fi
24358 \fi
24359 \reset@font
24360 \normalsize
24361 \bidi@font@@outputpage
24362 \normalsfcodes
24363 \let\label\@gobble
24364 \let\index\@gobble
24365 \let\glossary\@gobble

```



```

24366 \baselineskip\z@skip \lineskip\z@skip \lineskiplimit\z@
24367 \@begindvi
24368 \vskip \topmargin
24369 \moveright\@themargin \vbox {%
24370 \global\let\bidibeforeheader\@firstofone
24371 \bidibeforeheaderhook
24372 \setbox\@tempboxa \vbox to\headheight{%
24373 \vfil
24374 \color@hbox
24375 \normalcolor
24376 \hb@xt@\textwidth{\if@RTLmain\@RTLtrue\beginR\else\@RTLfalse\beginL\fi\@thehead\if@
24377 \color@endbox
24378 }% %% 22 Feb 87
24379 \dp\@tempboxa \z@
24380 \box\@tempboxa
24381 \vskip \headsep
24382 \global\let\bidibeforeoutputbox\@firstofone
24383 \bidibeforeoutputboxoutputpagehook
24384 \box\@outputbox
24385 \global\let\bidiafteroutputbox\@firstofone
24386 \bidiafteroutputboxoutputpagehook
24387 \global\let\bidibeforefooter\@firstofone
24388 \bidibeforefooterhook
24389 \baselineskip \footskip
24390 \color@hbox
24391 \normalcolor
24392 \hb@xt@\textwidth{\if@RTLmain\@RTLtrue\beginR\else\@RTLfalse\beginL\fi\@thefoot\if@
24393 \color@endbox
24394 \global\let\bidiafterfooter\@firstofone
24395 \bidiafterfooterhook
24396 }%
24397 }%
24398 \global\let\bidiafteroutputpageshipout\@firstofone
24399 \bidiafteroutputpageshipouthook
24400 \global\let\if@newlist\@if@newlist
24401 \global \colht \textheight
24402 \stepcounter{page}%
24403 \let\firstmark\botmark
24404 \global\let\bidiatendoutputpage\@firstofone
24405 \bidiatendoutputpagehook
24406 }
24407 \long\def\@makecaption#1#2{%
24408 \vskip\abovecaptionskip
24409 \sbox\@tempboxa{#1: #2}%
24410 \ifdim \wd\@tempboxa >\hsize
24411 \if@RTL\beginR\fi#1: #2\if@RTL\endR\fi\par
24412 \else
24413 \global \minipagefalse
24414 \hb@xt@\hsize{\if@RTL\beginR\fi\hfil\box\@tempboxa\hfil\if@RTL\endR\fi}%
24415 \fi
24416 \vskip\belowcaptionskip}
24417 \let\bidisaved@eqno=\eqno
24418 \let\bidisaved@leqno=\leqno
24419 \def\eqno{\ifnum\predisplaydirection<\z@ \bidisaved@leqno \else \bidisaved@eqno \fi}

```



```

24420 \def\leqno{\ifnum\predisplaydirection<\z@ \bidi@saved@eqno \else \bidi@saved@leqno \fi}
24421 \@ifpackageloaded{amsmath}{\{
24422 \def\@eqnnum{\normalfont \normalcolor \if@RTL\beginR\fi(\theequation)\if@RTL\endR\fi}}
24423 }
24424 \input{footnote-xetex-bidi.def}
24425 \if@twocolumn
24426 \let\autofooterule\relax
24427 \let\leftfootnoterule\relax
24428 \let\rightfootnoterule\relax
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## 159 File xltextra-xetex-bidi.def

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24609 \let\@XeLaTeX\XeLaTeX
24610 \def\XeLaTeX{\@ensure@LTR{\@XeLaTeX}}

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## 160 Index

Numbers written in *italic* refer to the page where the corresponding entry is described; numbers underlined refer to the code line of the definition; numbers in *roman* refer to the code lines where the entry is used.

Symbols			
\# . . . 5358, 5404, 5516, 5524	12964, 15335,	\@@@bidi@AfterPackage	
\% . . . . . 13822	17575, 18354,	. . . . . 6341, 6345	
\' . . . 13942, 16186, 18192	18748, 18945,	\@@H@@footnotetext	
\( . . . . . 16287	19148, 19686,	. . . . . 11174, 11189	
\) . . . . . 16288	20447, 21212, 21934	\@@H@@mpfootnotetext	
\, . . . . . 7610, 14205,	\ / . . . . . 4123	. . . . . 11177, 11195	
18786, 18829,	\: . . . . . 16329, 16388	\@@HLTR@@LTRfootnotetext	
23344, 23355, 23751	\< . . . . . 21568	. . . . . 11175, 11191	
\- 3853, 13941, 16185, 18191	\= . . . 13942, 16186, 18192	\@@HLTR@@mpLTRfootnotetext	
\. 93, 296, 586, 718, 981,	\> . . . . . 21569	. . . . . 11178, 11197	
1231, 2406, 3852,	\@ . . . . . 5428	\@@HRTL@@RTLfootnotetext	
8797, 8985, 9297,	\@@ . . . . . 21747, 21749	. . . . . 11176, 11193	
10856, 11130,	\@@@bidi@AfterClass	\@@HRTL@@mpRTLfootnotetext	
	. . . . . 6296, 6301	. . . . . 11179, 11199	



<code>\@LTR</code> . . . . . 18042,	19362, 20062,	<code>\@LTRfootnotetext</code> 64,
18044, 23711, 23713	20099, 20102,	81, 155, 156,
<code>\@LaTeX</code> . . . 23716, 23717	20835, 20872, 20875	157, 266, 284,
<code>\@LaTeXe</code> . . 23718, 23719	<code>\@math</code> . . . . . 9332	2241, 2245, 2300,
<code>\@RTL</code> . . . . . 18041,	<code>\@mix</code> . . . . . 23538, 23581	4259, 4381, 7655,
18044, 23710, 23713	<code>\@mod</code> . . 23539, 23543,	7738, 7745, 8461,
<code>\@Radio</code> . . . 15274, 15282	23544, 23547,	8472, 8678, 8692,
<code>\@TeX</code> . . . . . 18045,	23548, 23549,	10306, 10307,
18046, 23714, 23715	23552, 23582,	11175, 11190,
<code>\@XeLaTeX</code> . 24609, 24610	23586, 23587,	11191, 11261,
<code>\@XeTeX</code> . . . 24607, 24608	23590, 23591,	11309, 11317,
<code>\@author</code> 8226, 8229, 8232	23592, 23595, 23614	11514, 11623,
<code>\@bidi@AfterClass</code>	<code>\@par</code> . . . . . 16184,	11726, 11835,
. . . . . 6295, 6312	18190, 18781,	11944, 12053,
<code>\@bidi@AfterPackage</code>	18824, 19334,	12162, 12271,
. . . . . 6340, 6355	19345, 20073,	12380, 12539,
<code>\@bidi@PreventPackageFromLoading</code>	20085, 20846,	12597, 13541,
. . . 6386, 6388, 6390	20858, 21859,	13547, 13591,
<code>\@bidi@pop</code> . . . . 6008,	21861, 23832, 23947	13617, 13675,
6011, 6012, 6015, 6017	<code>\@para@footstart@v@l</code>	13700, 13706,
<code>\@bidi@popinto</code> . .	. . . . . 12554, 12612	14708, 14736,
. . . 6008, 6011, 6012	<code>\@protect</code> . . . . . 5289	14815, 14834,
<code>\@clr</code> . . 23539, 23544,	<code>\@startpbox</code> . . 16037,	15028, 15032,
23547, 23549,	21644, 21682, 23941	15052, 15053,
23550, 23552,	<code>\@title</code> . 8225, 8228, 8231	16095, 16242,
23582, 23587,	<code>\@tmp</code> . . . . . 23543,	17367, 17369,
23590, 23592,	23544, 23549,	17370, 19285,
23593, 23595, 23614	23550, 23552,	19291, 19726,
<code>\@cls</code> . . . . . 23534, 23577	23553, 23586,	20024, 20030,
<code>\@date</code> . . 8227, 8230, 8233	23587, 23592,	20487, 20797,
<code>\@description</code> . . . 2372	23593, 23595,	20803, 21252,
<code>\@end</code> . . . . . 5662, 5663	23596, 23614, 23615	21713, 21730, 21822
<code>\@endpbox</code> . . . 16038,	<code>\@underline</code> . . . . .	<code>\@LTRmarginparfalse</code>
21644, 21682, 23941	. 23914, 23916, 23918	. . . . . 24308, 24310
<code>\@footstart@v@l</code> .	<code>\@DEBUGfalse</code> . . . . . 4403	<code>\@LTRmarginparreset</code>
. 11404, 12554, 12612	<code>\@False</code> . . . . . 9320, 9322	. . . . . 24207, 24214
<code>\@if@newlist</code> . 13286,	<code>\@LTRbibitemfalse</code>	<code>\@LTRmarginpartrue</code> 24309
13318, 24325, 24400	. . . . . 23765, 23767	<code>\@LTRsavemarbox</code> 24194,
<code>\@input</code> . . . . . 6211	<code>\@LTRbibitemtrue</code> 23766	24195, 24198, 24201
<code>\@italiccorr</code> . . . .	<code>\@LTRbiditytesidenote@sidenote</code>	<code>\@LTRxmpar</code> . 24192, 24193
. . . 336, 9341, 16166	. . . 7726, 7785, 7789	<code>\@LTRympar</code> . 24192, 24197
<code>\@line</code> . . . . . 11498,	<code>\@LTRbiditytesidenotemarginparreset</code>	<code>\@M</code> . 6, 92, 105, 201, 225,
11502, 19174,	. . . . . 7361, 7368	255, 558, 622, 623,
19183, 19221,	<code>\@LTRbiditytesidenotesavemarbox</code>	647, 751, 874, 929,
19232, 23893,	. . . . . 7348,	930, 1003, 1123,
23894, 23896,	7349, 7352, 7355	1124, 1130, 1253,
23897, 23899, 23900	<code>\@LTRbiditytesidenotexmpar</code>	4186, 4191, 7957,
<code>\@makecaption</code> . . .	. . . . . 7346, 7347	8718, 8719, 8725,
. . 19718, 19782,	<code>\@LTRbiditytesidenoteympar</code>	8839, 8895, 8896,
19886, 20479,	. . . . . 7346, 7351	8902, 9016, 9066,
20543, 20648,	<code>\@LTRfootgroupv@l</code> .	9261, 9269, 9336,
21244, 21308, 21413	. . . . . 11397,	10823, 10836,
<code>\@makefnmark</code> . . . .	. . . . . 11405, 12552, 12610	11093, 11102,
. . 19323, 19359,		11498, 11502,



12930, 12938,	\@RTLcolumnfootnotesfalse	80, 159, 160,
13259, 15334,	..... 11327	161, 251, 283,
15348, 15372,	\@RTLcolumnfootnotesttrue	2240, 2244, 2274,
17228, 17240,	..... 11326	4260, 4382, 7673,
17252, 18130,	\@RTLfalse ..... 36,	7767, 7774, 8462,
18252, 18253,	66, 87, 239, 268,	8473, 8679, 8693,
18277, 18387,	290, 572, 707, 970,	10327, 10328,
18526, 18649,	1220, 1840, 2142,	11176, 11192,
18702, 18703,	2176, 2194, 2226,	11193, 11247,
18764, 18765,	2389, 3737, 3743,	11310, 11318,
19119, 19127,	3761, 4629, 8786,	11515, 11624,
21738, 21845,	8974, 9283, 9302,	11727, 11836,
21886, 22020,	9314, 9327, 10845,	11945, 12054,
22051, 22074,	11116, 11235,	12163, 12272,
22091, 22108,	11263, 11276,	12381, 12540,
22125, 22142,	11287, 11528,	12598, 13532,
22159, 22177,	11538, 11573,	13538, 13575,
22196, 22216,	11585, 11637,	13616, 13676,
22251, 22634,	11646, 11679,	13715, 13721,
23160, 23274, 23972	11690, 11740,	14707, 14725,
\@MM . . . 41, 55, 71, 244,	11750, 11785,	14800, 14835,
258, 273, 10304,	11797, 11849,	15027, 15031,
10325, 10372,	11859, 11894,	15049, 15050,
10379, 10424,	11906, 11958,	16096, 16243,
10431, 11425,	11968, 12002,	17372, 17374,
13564, 13581, 13597	12014, 12067,	17375, 19286,
\@Mi . . . . . 9332, 16109	12077, 12111,	19295, 19727,
\@Mii . 4334, 7289, 7333,	12123, 12176,	20025, 20034,
7377, 9994, 10006,	12186, 12221,	20488, 20798,
10019, 24179, 24223	12233, 12285,	20807, 21253,
\@Miii 4336, 7291, 7335,	12295, 12330,	21714, 21731, 21823
7379, 24181, 24225	12342, 12394,	\@RTLmainfalse . 3662,
\@RTL@footnotefalse	12404, 12439,	3666, 3947, 3951
. . . 3779, 13384,	12451, 12773,	\@RTLmaintrue . 3665, 3950
13551, 18025,	12792, 12953,	\@RTLmarginparfalse
18030, 23678, 23699	13559, 13592,	..... 24309, 24310
\@RTL@footnotetrue	13635, 13649,	\@RTLmarginparreset
. . . 3777, 13384,	15329, 15652,	..... 24251, 24258
13550, 18027,	15675, 15679,	\@RTLmarginpartrue 24308
18029, 23688, 23698	15686, 15695,	\@RLSavemabox 24238,
\@RTLbibitemfalse	16175, 16981,	24239, 24242, 24245
..... 23766, 23767	17566, 17735,	\@RTLtabfalse . . 409,
\@RTLbibitemstrue 23765	17783, 17987,	3640, 3749, 23672,
\@RTLbidituftesidenote@sidenote	18021, 18025,	23678, 23699,
. . . 7755, 7786, 7790	18030, 18079,	23847, 23865, 23952
\@RTLbidituftesidenotemarginparreset	1843, 18737,	\@RTLtabtrue . . . . .
..... 7405, 7412	18931, 19134,	. . . . 3639, 3747,
\@RTLbidituftesidenotesavemabox	19664, 20425,	23663, 23688,
..... 7392,	21190, 21920,	23698, 23735,
7393, 7396, 7399	23636, 23671,	23742, 23856, 23874
\@RTLbidituftesidenotexmpar	23678, 23699,	\@RTLtrue . 36, 50, 87,
..... 7390, 7391	23847, 23865,	239, 253, 290, 572,
\@RTLbidituftesidenoteympar	24305, 24376, 24392	707, 970, 1220,
..... 7390, 7395	\@RTLfootnotetext 48,	2142, 2159, 2194,



2210, 2389, 3735,	8815, 8816, 8818,	20382, 20386,
3741, 3759, 4629,	8820, 8822, 8989,	20388, 20390,
8786, 8974, 9283,	8990, 8991, 8992,	20392, 20395,
9341, 9343, 10845,	8993, 8995, 8997,	20398, 20402,
11116, 11235,	8999, 9240, 9242,	20404, 21150,
11249, 11276,	9244, 9246, 9247,	21152, 21155,
11298, 11528,	9248, 9249, 9250,	21157, 21159,
11548, 11573,	10956, 10957,	21161, 21164,
11598, 11637,	10958, 10959,	21167, 21170,
11655, 11679,	11072, 11074,	21994, 22238,
11702, 11740,	11076, 11078,	23762, 23764, 24475
11760, 11785,	11079, 11080,	\@Submit ... 15290, 15299
11810, 11849,	11081, 11082,	\@TextField . 15258, 15266
11869, 11894,	13056, 13057,	\@True ... 9315, 9321, 9353
11919, 11958,	13058, 13059,	\@Undottedtocline 17235
11978, 12002,	13060, 13062,	\@Undottedtoclinep 17247
12027, 12067,	13064, 13066,	\@acci 13942, 16186, 18192
12087, 12111,	13226, 13232,	\@accii 13942, 16186, 18192
12136, 12176,	13354, 13356,	\@acciii .....
12196, 12221,	13358, 13360,	. 13942, 16186, 18192
12246, 12285,	13361, 13362,	\@acol 1437, 1445, 4268,
12305, 12330,	13363, 13364,	16034, 21628,
12355, 12394,	13367, 13369,	23744, 23924, 23950
12414, 12439,	13371, 13373,	\@acolampacol .. 1435,
12464, 12763,	13374, 13375,	1437, 1443, 1445
12783, 12953,	13376, 13377,	\@addamp ..... 1436, 1444
13559, 13576,	15385, 15386,	\@addfield ..... 24314
13621, 13649,	15387, 15388,	\@addmarginpar ... 24264
15329, 15652,	15712, 16868,	\@address 4521, 10161,
15675, 15686,	16870, 16872,	10162, 10259, 10261
15695, 16178,	16874, 16876,	\@addresscolour 4490,
16981, 17566,	16877, 16879,	4507, 10160, 10258
17988, 18013,	16880, 16881,	\@addtofilelist ... 6210
18027, 18029,	17609, 17617,	\@addtopreamble ...
18343, 18737,	17619, 18358,	... 1408, 1471, 9414
18931, 19134,	18359, 18360,	\@addtoreset .....
19664, 20425,	18361, 18362,	... 332, 13229,
21190, 21920,	18364, 18366,	17607, 17613, 17615
23637, 23662,	18368, 18723,	\@adviper ..... 9757
23688, 23698,	18724, 18725,	\@afterheading ....
23856, 23874,	18726, 18727,	. 568, 4169, 4179,
24305, 24376, 24392	18729, 18731,	10833, 10841, 16198
\@RTLxmpar . 24236, 24237	18733, 18918,	\@afterindentfalse
\@RTLympar . 24236, 24241	18920, 18922,	.. 4169, 4179, 16197
\@Reset .... 15307, 15316	18923, 18924,	\@afterindenttrue .
\@SepMark ..... 19,	18925, 18926,	.. 647, 874, 1130,
20, 21, 22, 168,	18927, 19100,	7956, 8725, 8902,
214, 215, 216, 217,	19102, 19104,	17227, 17239,
334, 350, 546, 547,	19106, 19107,	17251, 18277,
548, 549, 700, 701,	19108, 19109,	18649, 22019,
702, 703, 954, 955,	19110, 19638,	22050, 22073,
956, 957, 1213,	19639, 19641,	22090, 22107,
1214, 1215, 1216,	19643, 19645,	22124, 22141,
8812, 8813, 8814,	20377, 20380,	22158, 22176,



22195, 22215,	18360, 18361,	21636, 21677,
22250, 22633,	18362, 18364,	21681, 21685, 23933
23153, 23273, 23971	18366, 18368,	\@author . . . . . 428,
\@algocf@finish . . . 179	18723, 18724,	442, 478, 499, 762,
\@algocf@start . . . . 171	18725, 18726,	764, 782, 827,
\@ampacol . . . . 1435, 1443	18727, 18729,	846, 1014, 1016,
\@arabic . . . 168, 546,	18731, 18733,	1034, 1079, 1098,
547, 548, 549, 574,	18739, 18746,	1264, 1266, 1284,
581, 700, 701, 702,	18918, 18920,	1329, 1349, 1360,
703, 709, 716, 954,	18922, 18923,	4068, 8158, 8160,
955, 956, 957, 972,	18924, 18925,	8229, 8850, 8852,
979, 1213, 1214,	18926, 18927,	8870, 9027, 9029,
1215, 1216, 1222,	18933, 18940,	9047, 9122, 9136,
1229, 2391, 2400,	19100, 19102,	9172, 9193, 10883,
4641, 8788, 8795,	19104, 19105,	10895, 10929,
8812, 8813, 8814,	19106, 19107,	10948, 10978,
8815, 8816, 8818,	19108, 19109,	10992, 11028,
8820, 8822, 8976,	19110, 19136,	11049, 12983,
8983, 8989, 8990,	19143, 19639,	12995, 13029,
8991, 8992, 8993,	19641, 19643,	13048, 16837,
8995, 8997, 8999,	19645, 19667,	18398, 18400,
9240, 9242, 9244,	19683, 20384,	18418, 18463,
9245, 9246, 9247,	20386, 20388,	18482, 18537,
9248, 9249, 9250,	20390, 20392,	18539, 18559,
9285, 9292, 10847,	20395, 20398,	18606, 18628,
10854, 10956,	20406, 20428,	18639, 18795,
10957, 10958,	20444, 21153,	18809, 18850,
10959, 11072,	21155, 21157,	18871, 18982,
11074, 11076,	21159, 21161,	18996, 19032,
11077, 11078,	21164, 21167,	19053, 19467,
11079, 11080,	21171, 21193,	19611, 20207,
11081, 11082,	21209, 21922, 21929	20351, 20980, 21124
11118, 11125,	\@argdef . . . . . 5249	\@auxout . . . . . 3797,
12955, 12962,	\@array 384, 405, 1370,	3801, 4684, 5025,
13056, 13057,	1371, 21665, 23930	5053, 5079, 5107,
13058, 13059,	\@arrayacol . . . . . 23950	5133, 5136, 5170,
13060, 13062,	\@arrayclassiv . . . 23951	5173, 8625, 24016
13064, 13066,	\@arrayclassz . . . . .	\@badmath . . 13191, 13205
13354, 13356,	. 1435, 21669, 23950	\@begin@tempboxa . .
13358, 13359,	\@arraycr 404, 16043, 23952	. . . . . 14218,
13360, 13361,	\@arrayleft . . . . . 397	14314, 14321, 23832
13362, 13363,	\@arrayparboxrestore	\@begin@dv . 13257, 24367
13364, 13367,	. 1871, 16098, 18187	\@begin@parpenalty .
13369, 13371,	\@arrayright . . . . . 406	. . . . . 4182,
13372, 13373,	\@arrayrule 1390, 1391,	4191, 13194, 13208
13374, 13375,	1392, 1428, 1429, 1430	\@bib@break . . . . .
13376, 13377,	\@arstdepth . . . . .	. 19659, 20420, 21185
15712, 15714,	. 21662, 21667, 21685	\@biblabel 89, 292, 574,
16868, 16870,	\@arstheight 21667, 21685	575, 709, 710, 972,
16872, 16874,	\@arstrut . . . . . 394,	973, 1222, 1223,
16876, 16879,	16057, 21643, 23940	2391, 2392, 8788,
16880, 16881,	\@arstrutbox . . . 387,	8789, 8976, 8977,
18345, 18352,	16045, 16099,	9285, 9286, 10847,
18358, 18359,		10848, 11118,



11119, 12955,	13970, 13971,	15697, 15698,
12956, 15331,	13972, 13973,	15699, 15703, 15705
17568, 18345,	13983, 13984,	\@bidi@mdf@RTLtrue 16174
18346, 18739,	14032, 14033,	\@bidi@patch@AfterPackage
18740, 18933,	14089, 14090,	..... 6666, 6669
18934, 19136,	14091, 14092,	\@bidi@pdfcreator .
19137, 19667,	14109, 14110,	..... 3651,
19669, 20428,	14128, 14137,	3886, 3992, 4006
20430, 21193,	14149, 14155,	\@bidi@pdfcustomproperties
21195, 21922, 21923	14159, 14171,	..... 3657,
\@bibsetup ..... 17568	14173, 14176,	3889, 3998, 4009
\@bibtitlestyle ...	14207, 17397,	\@bidi@pdfencryptfalse
..... 84, 287, 15326	17398, 17487,	..... 3866
\@bidi@estpelt ....	18054, 18056,	\@bidi@pdfencrypttrue
... 5730, 5736, 5740	18057, 24141,	..... 3868, 3871
\@bidi@AfterClass .	24147, 24150,	\@bidi@pdfm@markfalse
..... 6296,	24164, 24166, 24169	..... 3819, 4014
6317, 6322, 6329	\@bidi@emptytoks ..	\@bidi@pdfm@marktrue
\@bidi@AfterPackage	... 4733, 4738, 4762	..... 3817, 4013
..... 6341,	\@bidi@envbody ....	\@bidi@pdfproducer
6360, 6364, 6371	.... 4732, 4734,	..... 3654,
\@bidi@EqualStringX	4736, 4737, 4738,	3887, 3995, 4007
... 5795, 5796, 5797	4758, 4760, 4761, 4762	\@bidi@perpage@footnotefalse
\@bidi@PreventPackageFromLoading	\@bidi@info ..... 5876,	..... 3829
... 6381, 6382, 6384	5877, 5878, 5879,	\@bidi@perpage@footnotetrue
\@bidi@UnPreventPackageFromLoading	5883, 5884, 5888,	..... 3827
... 6473, 6474, 6477	5889, 5893, 5894,	\@bidi@prepend@to@cslist
\@bidi@after@Hy@hyperfootnotes	5899, 5900, 5904, 5905	..... 5944,
.. 11184, 11322,	\@bidi@ifnxtc .....	5947, 5958, 6000, 6002
11523, 11632,	... 5843, 5846, 5847	\@bidi@prepend@to@list
11735, 11844,	\@bidi@info 3574, 3601,	..... 5947,
11953, 12062,	3603, 3901, 3928, 3930	5950, 5954, 5960, 5968
12171, 12280,	\@bidi@inslogo@ ...	\@bidi@removefromreset
12389, 12558, 12620	.... 3681, 3810,	... 4859, 4860, 4862
\@bidi@append@to@cslist	3812, 3966, 3991, 4016	\@bidi@replacefilewithext
... 5942, 5946, 5956	\@bidi@list@minipage@parbox@not@nobtrue	..... 6258, 6262, 6265
\@bidi@append@to@list	..... 13664, 23820	\@bidi@saveprimitive
..... 5946,	\@bidi@list@minipage@parboxfalse	..... 4720
5949, 5952, 5959, 5967	..... 1835, 21832	\@bidi@stepcounter
\@bidi@before@Hy@hyperfootnotes	\@bidi@list@minipage@parboxtrue	..... 5729, 5735
.. 11170, 11315,	.. 13665, 23824, 23827	\@bidi@tabular@RTLcases
11512, 11621,	\@bidi@logo .... 3697,	.. 23733, 23735, 23742
11724, 11833,	3716, 3974, 3990	\@bidi@todonotes@align
11942, 12051,	\@bidi@logo@ .....	..... 23320,
12160, 12269,	.... 3681, 3713,	23321, 23353,
12378, 12537, 12591	3812, 3966, 3990, 3991	23394, 23397,
\@bidi@copy@stacktop	\@bidi@logo@hb@ext@	23400, 23403,
..... 6014, 6017	..... 3967, 3990	23428, 23433, 23434
\@bidi@copyins@ ...	\@bidi@logo@hb@ext@columnwidth	\@bidi@todonotes@figposition@rightfalse
.... 3677, 3678,	..... 3682, 3714	..... 23335
3679, 3680, 3681,	\@bidi@lst@makecaption	..... 23333
3962, 3963, 3964,	..... 15649,	\@bidi@todonotes@textdirection
3965, 3966, 11408,	15665, 15666,	.. 23322, 23326,
11410, 11413,		



23329, 23433, 23434	6883, 6884, 6916,	\@biditufteheading@newlinetospace
\@bidi@todonotes@textdirection@RTL@false	6920, 6922,	..... 7058, 7067
..... 23328	6923, 7000, 7007,	\@biditufteheading@newlinetospace@i
\@bidi@todonotes@textdirection@RTL@true	7015, 7018, 7019	..... 7059, 7061
..... 23325	\@bidituftefloat@float@debug@false	\@biditufteheading@orig@cr
\@bidi@unreplacefilewithext	.... 6874, 6876,	..... 7066, 7070
... 6267, 6273, 6276	6877, 6878, 6975, 6982	\@bidituftesidenote@LTR@citation@font
\@bidi@void@compfootinsfalse	\@bidituftefloat@float@fullwidth	... 7428, 7437, 7527
..... 11464	..... 6962, 7010	\@bidituftesidenote@LTR@marginfont
\@bidi@void@compfootinstrue	\@bidituftefloat@float@textwidth	..... 7419,
..... 11462	..... 6963, 6992	7422, 7425, 7428
\@bidi@void@footinsfalse	\@bidituftefloat@fps	\@bidituftesidenote@LTR@marginnote@font
..... 12865, 12879	..... 6904, 6919	... 7425, 7434, 7806
\@bidi@void@footinstrue	\@bidituftefloat@fullwidth	\@bidituftesidenote@LTR@sidenote@font
..... 12862, 12877	..... 6834,	..... 7422, 7431
\@bidi@ww	6840, 6841, 6842, 6942	\@bidituftesidenote@RTL@citation@font
\@bidi@ww	\@bidituftefloat@justification	..... 7429, 7438
\@bidideclaredcolor	..... 6802	\@bidituftesidenote@RTL@marginfont
..... 9466,	\@bidituftefloat@justification@autodetect	7420,
9473, 23574, 23603	..... 6742, 6872	7423, 7426, 7429
\@biditufteLTR@sidenote@normal@cite	\@bidituftefloat@label	\@bidituftesidenote@RTL@marginnote@font
..... 7521,	..... 6901, 6928	... 7426, 7435, 7815
7600, 7720, 7749,	\@bidituftefloat@margin@font	\@bidituftesidenote@RTL@sidenote@font
7778, 7800, 7809, 7818	... 6850, 6853, 6864	..... 7423, 7432
\@biditufteRTL@sidenote@normal@cite	\@bidituftefloat@margin@par	\@bidituftesidenote@add@citation
..... 7540,	..... 6772, 6859	..... 7562, 7595
7601, 7721, 7750,	\@bidituftefloat@margin@font	\@bidituftesidenote@check@multiple@sidenotes
7779, 7801, 7810, 7819	..... 6799, 6800	..... 7620, 7628
\@bidituftefloat@caption	\@bidituftefloat@orig@caption	\@bidituftesidenote@citation@font
..... 6894, 6927	... 6925, 6953, 6983	..... 7427,
\@bidituftefloat@caption@box	\@bidituftefloat@orig@endfloat	7436, 7508, 7546, 7574
6886, 6951, 6962,	... 6888, 6966, 7217	\@bidituftesidenote@citation@justification
6963, 6986, 7221, 7226	\@bidituftefloat@orig@float	..... 7441, 7575
\@bidituftefloat@caption@fill	... 6887, 6940, 7216	\@bidituftesidenote@citations
..... 6835,	\@bidituftefloat@orig@label	.... 7561, 7563,
6844, 6845, 7226	..... 6926,	7564, 7566, 7571,
\@bidituftefloat@caption@font	6934, 6954, 6984	7580, 7699, 7728,
6800, 6801, 6855,	\@bidituftefloat@overhang	7757, 7796, 7805, 7814
7052, 7223, 7229, 7242	..... 6837, 6838,	\@bidituftesidenote@infootnote@cite
\@bidituftefloat@caption@justification	7036, 7037, 7076, 7077	7594, 7698, 7727,
... 6742, 6858, 7052	\@bidituftefloat@pkgname	7756, 7795, 7804, 7813
\@bidituftefloat@caption@vertical@offset	... 6717, 6718, 6720	\@bidituftesidenote@justification@autodetect
.... 6889, 6890,	\@bidituftefloat@store@caption	..... 7439,
6898, 6962, 6963, 6990	..... 6892,	7440, 7441, 7442
\@bidituftefloat@checkoddpages	6899, 6953, 6988	\@bidituftesidenote@margin@par
..... 6817, 6914	\@bidituftefloat@store@label	..... 7443,
\@bidituftefloat@figure@box	.... 6893, 6902,	7576, 7643, 7661,
..... 6885,	6954, 6970, 6972, 6989	7679, 7797, 7806, 7815
6944, 6962, 6963, 6985	\@bidituftefloat@store@shorthand@caption	\@bidituftesidenote@marginfont
\@bidituftefloat@float@content@width	..... 6891,	..... 7418,
..... 6906,	6896, 6897, 6953, 6987	7421, 7424, 7427
6942, 6943, 6945	\@bidituftegeneralstructure@ristopas	\@bidituftesidenote@marginnote@font
\@bidituftefloat@float@debug	..... 8002, 8008	... 7424, 7433, 7797
.... 6875, 6881,		



\@bidityftesidenote@marginnote@justification	24222	\@cftdopartfalse .	21997
..... 7440,		\@cftdoparttrue ...	
7797, 7806, 7815	\@bsthanksheadpost 16843	..... 22000, 22004	
\@bidityftesidenote@normal@caption	16843	\@cftl@subfig ....	22188
..... 7502,	. 7043, 16963, 16966	\@cftl@subtab ....	22208
7599, 7719, 7748,	\@captionabovefalse	\@chapapp .	9061, 9256,
7777, 7799, 7808, 7817	. 19904, 20666, 21431	11088, 12926, 19115	
\@bidityftesidenote@print@captionabove	19902, 20664, 21429	\@chapterlistsgap@off	..... 17601
7568, 7718, 7747,	\@capytype .	4273, 4321,	
7776, 7798, 7807, 7816	4369, 6856, 16956,	\@chapterlistsgap@on	..... 17608, 17616
\@bidityftesidenote@sidenote	16960, 16963,	\@chclass ..	352, 364,
... 7697, 7784, 7788	19201,	375, 1377, 1389,	
\@bidityftesidenote@sidenote@citations	19809, 19813,	1402, 1422, 1427,	
..... 7593	19815, 19816,	21766, 21782,	
\@bidityftesidenote@sidenote@font	19885, 20570,	21793, 23953, 23958	
..... 7421,	20574, 20576,	\@checkend ....	4751,
7430, 7606, 7607, 7610	20647,	4775, 6551, 6552	
\@bidityftesidenote@sidenote@justification	21335, 21339,	\@chnum .	353, 360, 371,
... 7439, 7606, 7607	21412, 21412	1378, 1385, 1398,	
\@bidityftesidenote@sidenote@vertical@offset	\@cclv ....	1408, 1424, 1425,	
..... 7694,	10339,	1426, 1439, 1447,	
7695, 7701, 7703,	10396, 12834,	1473, 9416, 21767,	
7709, 7716, 7730,	12835, 12863,	21774, 21789,	
7732, 7738, 7745,	12874, 14104,	23955, 23956, 23957	
7759, 7761, 7767, 7774	14116, 14150,	\@circlefnt ....	13085
\@bidityftesidenote@trim@b	14153, 14154,	\@classiv ....	4270,
..... 7472, 7479	14164, 14165,	16035, 21630,	
\@bidityftesidenote@trim@c	16113, 16118,	23746, 23926, 23951	
... 7476, 7479, 7484	16130, 18048,	\@classz ....	1405,
\@bidityftesidenote@trim@spaces	24126, 24130,	1464, 1498, 1499,	
7461, 7464, 7513,	24142, 24146, 24157	4269, 9410, 16035,	
7515, 7532, 7534,	\@cclvi ....	21629, 21669,	
7551, 7553, 7583, 7585	12581, 12583, 12643, 12645	23745, 23925, 23950	
\@bidityftesidenotemargin@paresetrcr	8030, 18138,	\@cleartopmattertags	..... 129, 15408
..... 7317, 7324	18151, 18164,	\@cliptoboxdim ...	21796
\@bidityftesidenotesavemabox	21838, 21867, 23883	\@clsextension ....	
..... 7304,	\@cftasnum ...	6265, 6276, 6292,	
7305, 7308, 7311	22024, 22055, 22078,	6302, 6311, 6314, 6323	
\@bidityftesidenotexmpar	22095, 22112,	\@clubpenalty ..	584,
..... 7302, 7303	22129, 22146,	2404, 9295, 11128,	
\@bidityftesidenoteympar	22163, 22181,	18943, 19146, 21932	
..... 7302, 7307	22200, 22220, 22255	\@colht ....	9767,
\@bidityftetoc@lof@line	\@cftasnumb ...	9794, 9795, 9879,	
..... 7949, 7965	22025, 22056, 22079,	9880, 9896, 10012,	
\@bidityftetoc@pkgnam	22096, 22113,	10027, 10028,	
..... 7825, 7826	22130, 22147,	10038, 10039,	
\@bidiundeclaredcolor	22164, 22182,	10046, 10062,	
.... 9466, 9467,	22201, 22221, 22256	10066, 12824,	
23574, 23575, 23614	\@cftbsnum ...	13280, 14082,	
\@bscontmark ....	22023, 22054, 22077,	14094, 14095,	
\@bsmarkseries ...	22094, 22111,	14096, 14098,	
\@bsmtitleempty ...	22128, 22145,		
\@bsphack .....	22162, 22180,		
4333, 7288, 7332,	22199, 22219, 22254		



14100, 14188,	\@contcstyle . . . . .	11281, 11292,
16124, 16125,	. 16916, 16922, 16927	11303, 11532,
17004, 17007,	\@contcwidth 16905, 16906	11542, 11552,
17009, 17011,	\@contdelim . . . . .	11578, 11591,
17016, 17017,	. . 16899, 16910,	11603, 11641,
17018, 17037,	16914, 16921, 16926	11650, 11659,
17038, 17039,	\@contffield . . . . .	11684, 11696,
17043, 17104,	. . . 8642, 8657, 8689	11707, 11744,
17107, 17109,	\@contffinal . . . . .	11754, 11764,
17111, 17116,	. . 16899, 16911,	11790, 11803,
17117, 17118,	16917, 16923, 16927	11815, 11853,
17137, 17138,	\@contffmark . 16898, 16901	11863, 11873,
17139, 17143,	\@contffnote . 16897, 16900	11899, 11912,
19396, 19413,	\@contindw . . . . . 16922	11924, 11962,
20136, 20153,	\@contnfont . . . . .	11972, 11982,
20909, 20926, 24401	. . 16899, 16910,	12008, 12021,
\@colourfalse . . . . . 4433	16914, 16921, 16926	12033, 12071,
\@colourgreenfalse	\@contpost . . . . . 16931	12081, 12091,
. . . . . 10079, 10177	\@contpre . . . . 16909,	12117, 12130,
\@colourgreentru .	16915, 16920, 16925	12142, 12180,
. . . . . 10080, 10178	\@conttfont . . . . .	12190, 12200,
\@colourgreyfalse .	. . 16899, 16911,	12226, 12239,
. . . . . 10083, 10181	16917, 16923, 16927	12251, 12289,
\@colourgreytrue . .	\@curffield . . . . .	12299, 12309,
. . . . . 10084, 10182	8641, 8656, 8676,	12335, 12348,
\@colourorangefalse	8690, 8700, 24314	12360, 12398,
. . . . . 10077, 10175	\@curline . . . . . 8639,	12408, 12418,
\@colourorangetru	8654, 24314, 24316	12444, 12457,
. . . . . 10078, 10176	\@currbox . 4341, 4372,	12469, 12664,
\@colouredfalse . .	4376, 7253, 7256,	12676, 12688,
. . . . . 10081, 10179	7297, 7300, 7305,	12725, 12739,
\@colouredtrue . . .	7309, 7341, 7344,	12753, 13566,
. . . . . 10082, 10180	7349, 7353, 7385,	13583, 13599,
\@colourtrue . . . . . 4432	7388, 7393, 7397,	13627, 13641, 13655
\@colroom . . . . 10039,	24187, 24190,	\@currentlabelname
10042, 10044,	24195, 24199,	. . . . . 14795,
10045, 10339,	24231, 24234,	14810, 14825,
10396, 14082,	24239, 24243,	14884, 14922,
14096, 14099,	24265, 24274, 24306	14955, 14986, 15017
14101, 16124,	\@currentHlabel . . .	\@currenvir . . . . .
16133, 19397,	. 14793, 14808, 14823	4737, 4740, 4741,
19414, 20137,	\@currentHref . . . . .	4761, 4764, 4765, 4792
20154, 20910, 20927	. . 14794, 14809,	\@current . . . . 22448,
\@combinedblfloats	14824, 14883,	22560, 22618, 22628
. . . . 9679, 9738,	14921, 14954,	\@currlist . . . . . 24264
13144, 13180,	14985, 15016,	\@curtabmar . 24313, 24316
13261, 14015,	15238, 15249, 15251	\@cvtheme . . . . 4513, 4516
14068, 17068,	\@currentlabel . . 43,	\@cvthemeoptions . .
17165, 24065, 24108	57, 73, 246, 260,	. . . . . 4514, 4516
\@combinefloats . . .	275, 2150, 2167,	\@date . . 431, 443, 479,
. . . . . 12819, 14184	2184, 2200, 2216,	502, 770, 772, 784,
\@compactenum@ . . . . 8012	2232, 7645, 7663,	829, 849, 1022,
\@cons . . . . . 24264, 24265	7681, 11241,	1024, 1036, 1081,
\@contcshortstyle 16911	11255, 11269,	1101, 1272, 1274,



1286, 1331, 1352,	\@dmath . . . . . 9302, 9331	\@empty . . 86, 115, 134,
1361, 4069, 8176,	\@docolbox . . . . . 13334	136, 289, 404, 441,
8230, 8858, 8860,	\@dodynamictheft 13258	442, 443, 444, 477,
8872, 9035, 9037,	\@dodynamicthehead 13258	478, 479, 480, 580,
9049, 9125, 9137,	\@dofilelist . . . . .	715, 781, 782, 783,
9173, 9196, 10886,	. . . 6562, 6563, 6565	784, 826, 827, 828,
10896, 10930,	\@dotsep . . . . . 23171,	829, 978, 1033,
10951, 10981,	23172, 23280, 23978	1034, 1035, 1036,
10993, 11029,	\@dottedtocline . . .	1078, 1079, 1080,
11052, 11137,	. . . 23286, 23287,	1081, 1228, 1283,
11142, 12986,	23289, 23307, 23967	1284, 1285, 1286,
12996, 13030,	\@dsseries . . . . . 9327	1328, 1329, 1330,
13051, 15417,	\@eha . . . . . 4728, 22242	1331, 1892, 1893,
15422, 16838,	\@ehc . . . . . 4831, 4833,	2259, 2285, 2311,
18406, 18408,	4839, 4841, 4847,	2399, 2711, 2717,
18420, 18465,	4849, 4855, 4857,	2723, 2801, 3125,
18485, 18545,	5265, 6139, 12530,	3272, 3368, 3463,
18547, 18561,	15618, 15625,	3812, 3991, 4067,
18608, 18631,	16111, 17210, 17216	4068, 4069, 4070,
18640, 18798,	\@ehd . . . . . 16957	4328, 4640, 4649,
18810, 18851,	\@eightcol@footgroupv@r	4749, 4773, 5969,
18873, 18985,	. . . . . 12167	6378, 6391, 6392,
18997, 19033,	\@eightcolLTRfootfmt	6398, 6421, 6451,
19056, 19472,	. . . 12193, 12214, 12242	6459, 6478, 6481,
19612, 20212,	\@eightcolLTRfootnotetext	6492, 6496, 6506,
20352, 20985, 21125	. . . . . 12162, 12186	6512, 6513, 6514,
\@dblarg . . . . . 16963	\@eightcolRTLfootfmt	6527, 6539, 6543,
\@dblfloatplacement	. . . 12203, 12217, 12254	6610, 6621, 7504,
. . . . 9683, 9742,	\@eightcolRTLfootnotetext	7523, 7542, 7563,
13145, 13184,	. . . . . 12163, 12196	7570, 8158, 8225,
13268, 14019,	\@eightcolfootfmt .	8226, 8227, 8794,
14072, 17072,	. . . 12183, 12211, 12229	8869, 8870, 8871,
17169, 24069, 24112	\@eightcolfootnotetext	8872, 8982, 9046,
\@declaredcolor 9451,	. . . . . 12161, 12176	9047, 9048, 9049,
9452, 23531, 23554	\@elt . . . . . 4861,	9135, 9136, 9137,
\@dedication . . . . .	4864, 7141, 7142,	9138, 9171, 9172,
. . . 19514, 19517,	7143, 7144, 7145,	9173, 9174, 9291,
19622, 20254,	7146, 7147, 7148,	9317, 9647, 9710,
20257, 20362,	7149, 7150, 7151,	10366, 10418,
21027, 21030, 21135	7152, 7182, 7183,	10853, 10894,
\@dedicatory . . . . . 323	7184, 7185, 7186,	10895, 10896,
\@deferlist . . . . . 14080	7187, 7188, 7189,	10897, 10928,
\@definitionfileextension	7190, 7191, 7192,	10929, 10930,
. . . . . 4806, 4809	7193, 7194, 7195,	10931, 10991,
\@depth . . . 389, 16047,	7196, 7197, 7198,	10992, 10993,
21609, 21638,	7199, 9353, 10305,	10994, 11027,
21678, 23935, 24303	10326, 10332,	11028, 11029,
\@dgroup . . . . . 9314	10367, 10369,	11030, 11124,
\@dischyph . . . . .	10371, 10377,	11135, 11151,
. . . 13941, 16185, 18191	10389, 10419,	11155, 12660,
\@displaypagenumbersfalse	10421, 10423,	12672, 12684,
. . . . . 4612	10429, 21697, 21699	12715, 12734,
\@displaypagenumberstrue	\@email 4525, 10167, 10265	12748, 12818,
. . . . . 4611		12961, 12994,



12995,	12996,	19586,	19590,	21130,	21131,
12997,	13028,	19591,	19599,	21132,	21133,
13029,	13030,	19600,	19610,	21134,	21135,
13031,	13124,	19611,	19612,	21177,	21208,
13160,	13711,	19613,	19614,	21233,	21234,
13793,	13993,	19615,	19616,	21339,	21567,
14042,	14080,	19617,	19618,	21684,	21732,
14183,	14198,	19619,	19620,	21928,	22228,
14199,	14200,	19621,	19622,	22230,	22583,
14201,	14202,	19652,	19682,	22589,	23056,
14795,	14810,	19707,	19708,	23534,	23537,
14825,	14884,	19813,	20072,	23577,	23580,
14922,	14955,	20172,	20173,	23733,	23943,
14986,	15017,	20180,	20188,	23952,	24041,
15328,	15394,	20195,	20201,	24088,	24353,
15415,	15457,	20217,	20223,	24354,	24356, 24357
15670,	15676,	20236,	20239,	\@emptycol . . .	10031,
15699,	15703,	20246,	20254,	10034,	10050, 10053
15705,	16061,	20259,	20274,	\@emptytoks . . . . .	9316
16086,	16835,	20281,	20296,	\@end@tempboxa	14225,
16836,	16837,	20297,	20301,	14319,	14336, 23845
16838,	16997,	20302,	20310,	\@endfloatbox . . . . .	4393
17097,	17595,	20311,	20315,	\@endmodernpoem	8652, 8672
18096,	18351,	20316,	20325,	\@endparentv . . . .	8562,
18417,	18418,	20326,	20330,	8669,	17642, 17662
18419,	18420,	20331,	20339,	\@endparpenalty	4186,
18462,	18463,	20340,	20350,	4195,	13195, 13209
18464,	18465,	20351,	20352,	\@endpobox . . . . .	
18558,	18559,	20353,	20354,	1415,	1416, 1457,
18560,	18561,	20355,	20356,	1481,	1482, 1483,
18605,	18606,	20357,	20358,	9424,	9425, 9426,
18607,	18608,	20359,	20360,	16032,	16038,
18745,	18808,	20361,	20362,	21644,	21682, 23941
18809,	18810,	20412,	20443,	\@endpetrue .	23687, 23697
18811,	18849,	20468,	20469,	\@endtraditionalpoem	
18850,	18851,	20574,	20845,	. . . . .	8543, 8608
18852,	18939,	20945,	20946,	\@ensure@LR .	18038, 23707
18995,	18996,	20953,	20961,	\@ensure@LTR . .	18036,
18997,	18998,	20968,	20974,	18038,	18046,
19031,	19032,	20990,	20996,	23705,	23707,
19033,	19034,	21009,	21012,	23715,	23717,
19142,	19333,	21019,	21027,	23719,	24608, 24610
19432,	19433,	21032,	21047,	\@ensure@RL .	18037, 23706
19440,	19448,	21054,	21069,	\@ensure@RTL . .	18035,
19455,	19461,	21070,	21074,	18037,	23704, 23706
19477,	19483,	21075,	21083,	\@ensure@dir . .	18039,
19496,	19499,	21084,	21088,	18040,	23708, 23709
19506,	19514,	21089,	21098,	\@ensure@maindir . .	
19519,	19534,	21103,	21109,	. . . . .	18040, 23709
19541,	19556,	21112,	21112,	\@enumctr	2337, 8013, 8014
19557,	19561,	21113,	21123,	\@eqnnum . . . . .	
19562,	19570,	21124,	21125,	. 13216,	15411, 24422
19571,	19575,	21126,	21127,	\@evenfoot	2050, 2091,
19576,	19585,	21128,	21129,	4031,	13251, 24346



\@evenhead . . . . 2049,	13993,	13997,	19782,	20543,
2091, 13250, 24346	14041,	14042,	21308,	24328,
\@expandtwoargs . . . 6497	14046,	16996,	24370,	24382,
\@extrafootnotefeaturesfalse	16997,	17001,	24385,	24387,
..... 3791	17096,	17097,	24394, 24398, 24404	
\@extrafootnotefeaturestrue	17101,	24040,	\@firstoftwo . . . 3607,	
..... 3789	24041,	24045,	3613, 3619, 4870,	
\@extrainfo . . . . .	24087, 24088, 24092		4878, 4882, 4890,	
. 4526, 10168, 10266	\@firstcoltopmark .		4894, 4902, 4908,	
\@extratitle . . . . .	.... 9644, 9652,		4912, 4925, 4933,	
.. 19432, 19439,	9707, 9715, 13121,		4939, 4943, 4951,	
19556, 19562,	13129, 13157,		4957, 4960, 4963,	
19570, 19576,	13165, 13990,		4977, 4984, 5374,	
19585, 19591,	13998, 14039,		5392, 5398, 5422,	
19615, 20172,	14047, 16994,		5449, 5479, 5542,	
20179, 20296,	17002, 17094,		5552, 6202, 17576	
20302, 20310,	17102, 24038,		\@fivecol@footgroupv@r	
20316, 20325,	24046, 24085, 24093		..... 11840	
20331, 20355,	\@firstcolumnfalse		\@fivecolLTRfootfmt	
20945, 20952,	9637, 9700, 10070,		. 11866, 11887, 11915	
21069, 21075,	13115, 13151,		\@fivecolLTRfootnotetext	
21083, 21089,	13275, 13979,		..... 11835, 11859	
21098, 21104, 21128	14028, 16987,		\@fivecolRTLfootfmt	
\@familyname . . . 4458,	17087, 24031, 24078		. 11876, 11890, 11927	
4460, 4461, 4519,	\@firstcolumntrue .		\@fivecolRTLfootnotetext	
10142, 10232, 10253	9655, 9718, 10025,		..... 11836, 11869	
\@familynamecolour	13131, 13168,		\@fivecolfootfmt . .	
..... 4488, 4505	13239, 14003,		. 11856, 11884, 11902	
\@fax . . 4524, 10166, 10264	14052, 17046,		\@fivecolfootnotetext	
\@fcolmadefalse . . 14081	17146, 24049, 24096		..... 11834, 11849	
\@ff@do@allframes .	\@firstdetailselementfalse		\@float . . . . . 6887, 7216	
..... 13260, 13265	..... 10247		\@floatboxreset . . . 4391	
\@ff@fbox . . . . . 13343	\@firstdetailselementtrue		\@floatpenalty . 4334,	
\@ff@setoffset . . . 13340	..... 10244		4336, 4339, 7289,	
\@ffbackground . . . 13330	\@firstfooterelementfalse		7291, 7295, 7299,	
\@filebordercolor .	..... 10163,		7333, 7335, 7339,	
..... 15096, 15098	10164, 10165,		7343, 7377, 7379,	
\@filecolor . . . . . 15114	10166, 10167, 10168		7383, 7387, 24179,	
\@file@und . . . . . 6211	\@firstfooterelementtrue		24181, 24185,	
\@finalstrut . . . . .	..... 10148		24189, 24223,	
2154, 2171, 2188,	\@firstname . . . . 4458,		24225, 24229, 24233	
2204, 2220, 2236,	4460, 4461, 4518,		\@fltovf . . . . .	
11219, 11225,	10142, 10232, 10253		4374, 7300, 7344,	
11231, 13571,	\@firstnamecolour .		7388, 24190, 24234	
13588, 13604,	..... 4487, 4504		\@flushglue 8445, 8446,	
13631, 13645, 13659	\@firstofone . . . 5602,		16191, 18907,	
\@firststampfalse 1437, 1445	5609, 5617, 5628,		22636, 22640,	
\@firstcolfirstmark	5642, 5648, 5658,		22644, 22690, 23883	
..... 9646,	5664, 6664, 13288,		\@fnsymbol . . . . .	
9647, 9651, 9709,	13306, 13310,		.. 453, 745, 804,	
9710, 9714, 13123,	13313, 13316,		997, 1056, 1247,	
13124, 13128,	13322, 15220,		1306, 4055, 8833,	
13159, 13160,	15221, 15222,		9010, 9147, 10906,	
13164, 13992,	15223, 16961,		11003, 13006,	



18381, 18440,	21251, 21712,	\@fs@cfont . . . . 7223,
18520, 18581,	21729, 21819, 21821	7229, 7239, 7242,
18777, 18820,	\@footstartv@l . . . .	7250, 13220, 13221
19007, 19429,	. 11396, 12553, 12611	\@fs@iftopcapt . . . .
19550, 20169,	\@footstartv@r . . . .	. . . . 7234, 7247, 7260
20290, 20942, 21063	. 11400, 12546, 12604	\@fs@mid . 7233, 7246, 7258
\@footgroupv@r . . . .	\@for . 6419, 6480, 6493,	\@fs@post 7232, 7245, 7259
. . 11401, 11490,	6515, 6519, 7505,	\@fs@pre . 7231, 7244, 7252
11519, 11628,	7510, 7524, 7529,	\@g@tnextcol . . . . . 13237
11731, 11840,	7543, 7548, 7571,	\@getcirc . . . . . 13081
11949, 12058,	7580, 9615, 22587	\@gnewline . . . 18140,
12167, 12276,	\@fourcol@footgroupv@r	18153, 18166, 18177
12385, 12545, 12603	. . . . . 11731	\@gobble . . . . . 4238,
\@footnote . . . . . 8107	\@fourcollTRfootfmt	4748, 4772, 4794,
\@footnotemark . 2262,	. 11757, 11778, 11806	4799, 5505, 5506,
2269, 2288, 2295,	\@fourcollTRfootnotetext	5507, 5508, 5509,
2314, 2321, 4301,	. . . . . 11726, 11750	5604, 5619, 5634,
4309, 4317, 7616,	\@fourcolRTLfootfmt	5680, 5694, 5706,
7709, 7716, 7738,	. 11767, 11781, 11818	5718, 6408, 6543,
7745, 7767, 7774,	\@fourcolRTLfootnotetext	6720, 8280, 8345,
8590, 8597, 8604,	. . . . . 11727, 11760	13298, 13299,
13532, 13538,	\@fourcolfootfmt . .	13300, 16958,
13541, 13547,	. 11747, 11775, 11793	19724, 19725,
14836, 15025,	\@fourcolfootnotetext	19726, 19727,
15029, 15043, 15044	. . . . . 11725, 11740	20485, 20486,
\@footnotetext . . 34,	\@fps . . . . . 4322,	20487, 20488,
79, 151, 152,	4323, 4325, 4328, 4345	21250, 21251,
153, 237, 282,	\@fpsadddefault 4326, 4329	21252, 21253,
2239, 2243, 2248,	\@freelist . . . . 4341,	23538, 23581,
4258, 4380, 7637,	7141, 7182, 7297,	24363, 24364, 24365
7709, 7716, 8460,	7298, 7341, 7342,	\@gobbletwo . . . . 2073,
8471, 8677, 8691,	7385, 7386, 12817,	4819, 4820, 4823,
10285, 10286,	14182, 24187,	4824, 5738, 15474,
11174, 11188,	24188, 24231,	19728, 20489, 21254
11189, 11233,	24232, 24264, 24265	\@gtempa . . . . . 5007, 5008
11308, 11316,	\@frontispiece . . . .	\@halignto . . . . 393,
11513, 11622,	. . 19433, 19436,	408, 21642, 21680,
11725, 11834,	19440, 19443,	23733, 23939, 23952
11943, 12052,	19557, 19561,	\@hangfrom . . . 19819,
12161, 12270,	19571, 19575,	19849, 19852,
12379, 12538,	19586, 19590,	20580, 20610,
12593, 12595,	19616, 20173,	20613, 21345,
13558, 13615,	20176, 20180,	21375, 21378, 23907
13674, 14706,	20183, 20297,	\@hboxRconstructfalse
14714, 14785,	20301, 20311,	. . . . . 18004, 23653
14833, 15026,	20315, 20326,	\@hboxRconstructtrue
15030, 15046,	20330, 20356,	404, 17994, 21649,
15047, 16094,	20946, 20949,	21688, 23643, 23948
16241, 17362,	20953, 20956,	\@height . . . . . 388,
17364, 17365,	21070, 21074,	1495, 9438, 9913,
19284, 19287,	21084, 21088,	13922, 16046,
19725, 20023,	21099, 21103, 21129	16099, 16211,
20026, 20486,	\@fs@capt 7230, 7243, 7251	19370, 19377,
20796, 20799,		20110, 20117,



20883, 20890,	\@ifdefinitionfileloaded	24512, 24513,
21609, 21637,	..... 4809, 24577	24514, 24515,
21678, 23934, 24303	\@ifempty .. 7, 202, 15373	24516, 24517,
\@highpenalty .....	\@ifl@aded 4808, 4809, 4810	24518, 24519,
.... 8739, 8755,	\@ifnextchar ... 163,	24520, 24521,
8762, 8772, 8916,	405, 4206, 4236,	24522, 24523,
8932, 8939, 8949,	4251, 5242, 6295,	24524, 24525,
9203, 9218, 9228,	6296, 6340, 6341,	24526, 24529,
11059, 12894,	6385, 7302, 7346,	24530, 24531,
12909, 12919,	7390, 9451, 9466,	24532, 24555,
18291, 18307,	13530, 13539,	24556, 24557,
18314, 18324,	13698, 13713,	24558, 24559,
18663, 18679,	13731, 13737,	24560, 24561,
18686, 18696,	14291, 15033,	24562, 24563,
18879, 18893,	15057, 17377,	24564, 24565,
18903, 19063,	17646, 17666,	24566, 24567,
19078, 19088,	23531, 23574,	24568, 24569,
22010, 22045,	23758, 24192, 24236	24570, 24571,
22434, 22458, 22546	\@ifpackagelater ..	24572, 24573,
\@hintcolour .. 4495, 4511	.. 6704, 6709, 13401	24574, 24575,
\@holdpg .....	\@ifpackageloaded .	24576, 24578,
9773, 9790, 9793,	..... 170, 1454,	24579, 24580,
9810, 9901, 9934, 9936	1989, 5435, 6368,	24581, 24582,
\@hyper@launch ... 15119	6428, 6663, 6681,	24583, 24584,
\@idxitem 102, 107, 222,	6703, 6708, 7209,	24585, 24586,
227, 603, 618, 867,	7214, 7267, 10758,	24587, 24588,
1119, 8071, 8078,	10759, 11495,	24589, 24590,
8714, 8891, 9102,	12503, 14830,	24591, 24592,
15345, 15350,	14850, 14928,	24593, 24594,
18248, 18503,	15227, 15692,	24595, 24596,
18963, 21990, 24432	15817, 16074,	24597, 24598,
\@ifclasslater 6706, 6711	16937, 21914,	24599, 24600,
\@ifclassloaded ...	23734, 24421,	24601, 24602,
.... 6326, 6705,	24434, 24447,	24603, 24604, 24605
6710, 6740, 8120,	24457, 24461,	\@ifpackagewith ...
8122, 9104, 11325,	24465, 24469,	... 9592, 15604,
13352, 13365,	24470, 24471,	15607, 18225,
24435, 24436,	24472, 24473,	18228, 21939,
24437, 24438,	24480, 24481,	24474, 24477,
24439, 24440,	24482, 24483,	24478, 24479,
24441, 24442,	24484, 24485,	24533, 24543, 24549
24443, 24444,	24486, 24487,	\@ifstar .....
24445, 24446,	24488, 24489,	5359,
24447, 24448,	24490, 24491,	6294, 6339, 6381,
24449, 24450,	24492, 24493,	6473, 7059, 10762,
24451, 24452,	24494, 24495,	11323, 11526,
24453, 24454,	24496, 24497,	11635, 11738,
24455, 24456,	24498, 24499,	11847, 11956,
24457, 24458,	24500, 24501,	12065, 12174,
24459, 24460,	24502, 24503,	12283, 12392,
24488, 24575, 24576	24504, 24505,	12587, 12649, 14294
\@ifdefinable .. 4989,	24506, 24507,	\@iftagsloaded .....
4992, 4995, 5010,	24508, 24509,	. 4808, 24462, 24463
5252, 5267, 13455	24510, 24511,	\@iftexfileloaded .
		. 4810, 24527, 24528



<code>\@ifundefined</code> .. 330, 331, 4615, 4829, 4832, 4837, 4840, 4845, 4848, 4853, 4856, 6283, 6287, 6437, 6530, 7451, 7934, 7942, 8057, 8059, 8064, 8154, 8171, 9453, 9460, 9468, 9474, 13223, 13448, 15230, 15231, 15628, 15639, 15702, 15704, 15709, 17754, 18222, 22229, 22233, 22309, 22331, 22332, 22380, 22381, 22468, 22490, 22491, 22775, 22798, 22852, 22912, 22961, 22978, 23008	<code>\@latex@error</code> .....	10856, 11130, 12964, 13981, 13983, 14030, 14032, 15335, 17575, 18354, 18748, 18945, 19148, 19686, 20447, 21212, 21934
<code>\@ifundefinedmodel</code> ..... 23564, 23598	<code>\@latex@warning</code> . 95, 298, 588, 720, 983, 1233, 2408, 4645, 8799, 8987, 9299, 10858, 11132, 12966, 15337, 18356, 18750, 18947, 19150, 19690, 19697, 20451, 20458, 21216, 21223, 21936	<code>\@mainmatterfalse</code> . ..... 8307, 8337, 9279, 11112
<code>\@ifxempty</code> ..... 23624	<code>\@latex@warning@no@line</code> . 10029, 10047, 24279	<code>\@mainmattertrue</code> .. ..... 8304, 8320
<code>\@ignoretrue</code> ..... 9338	<code>\@latexbug</code> ..... 24265	<code>\@makeLTRfntext</code> ... ... 2135, 2187, 2235
<code>\@iiminipage</code> .... 13661	<code>\@latexerr</code> ..... . 14119, 14129, 14139	<code>\@makeRTLfntext</code> ... ... 2130, 2170, 2219
<code>\@iiparbox</code> ..... . 11474, 13692, 23816	<code>\@leftcolumn</code> ... 9638, 9664, 9701, 9723, 9776, 9781, 13116, 13137, 13152, 13173, 13980, 14008, 14029, 14061, 16988, 17047, 17060, 17088, 17147, 17156, 24032, 24058, 24079, 24101	<code>\@makecaption</code> .. 7054, 9399, 16894, 16944, 16976, 19776, 19808, 20537, 20569, 21302, 21334, 24407
<code>\@indextitlestyle</code> . .... 100, 220, 15343	<code>\@let@token</code> ... 4785, 4788	<code>\@makechapterhead</code> . . 301, 9056, 9251, 11083, 12922, 18123, 19111, 21955
<code>\@inlabelfalse</code> .... 9305	<code>\@lettrine</code> ..... 15437	<code>\@makecol</code> 12885, 12886, 14105, 14115, 16119, 16131, 24124
<code>\@insertfalse</code> ..... 9758	<code>\@listI</code> ..... 6757	<code>\@makeextratitle</code> .. .. 19559, 19573, 19588, 20299, 20313, 20328, 21072, 21086, 21101
<code>\@inserttrue</code> ..... 10024	<code>\@listdepth</code> ..... .. 13514, 13677, 13946, 13950, 15571, 19311, 20050, 20823, 23770, 23773, 23778	<code>\@makefnmark</code> ... 454, 805, 1307, 2132, 2137, 4056, 7612, 7623, 9148, 10290, 10311, 10907, 11004, 13007, 15360, 16842, 18441, 18582, 18778, 18821, 19008, 19430, 19431, 19551, 19552, 20170, 20171, 20291, 20292, 20943, 20944, 21064, 21065
<code>\@iprintcites</code> .... 18132	<code>\@listi</code> .. 6757, 6765, 7975	<code>\@makefntext</code> .... 45, 59, 75, 248, 262, 277, 455, 742, 807, 994, 1057,
<code>\@itemdepth</code> .... 2328, 2348, 2349, 2350	<code>\@loadwithoptions</code> . ... 6218, 6220, 6227	
<code>\@itemfudge</code> . 24313, 24315	<code>\@lowertitleback</code> .. .. 19483, 19494, 19506, 19541, 19621, 20223, 20234, 20246, 20281, 20361, 20996, 21007, 21019, 21054, 21134	
<code>\@itemlabel</code> ..... 23779	<code>\@lowpenalty</code> . 4182, 23080	
<code>\@ixpt</code> ..... 7971	<code>\@m</code> ... 93, 296, 586, 718, 981, 1231, 2406, 8797, 8985, 9297,	
<code>\@keywords</code> ..... 324		
<code>\@kludgeins</code> ... 12821, 14185, 17475, 17490		
<code>\@lastchclass</code> .. 353, 354, 355, 356, 358, 1378, 1379, 1380, 1381, 1383, 1422, 1423, 1435, 1443, 21767, 21768, 21769, 21770, 21772, 23953, 23954		
<code>\@lastvipertrue</code> ... ..... 10036, 10055		



1244, 1309, 2153,	18588, 18590,	\@minipagerestore 13678
2203, 4057, 7610,	18595, 18604,	\@minipagetrue . . . .
7649, 7667, 7685,	18614, 18832,	. . . . 7327, 7371,
8830, 9007, 9149,	18834, 18839,	7415, 24217, 24261
10908, 11005,	18848, 18858,	\@minus 4562, 4648, 6753,
13008, 13570,	19014, 19016,	6755, 6762, 6764,
13587, 13603,	19021, 19030,	6766, 6767, 7972,
13630, 13644,	19040, 19568,	7974, 7976, 7977,
13658, 14203,	19582, 19597,	13860, 13898,
16844, 18378,	19609, 20308,	17572, 19965,
18443, 18517,	20322, 20337,	19983, 19993,
18584, 18780,	20349, 21081,	20003, 20014,
18823, 19009,	21095, 21110, 21122	20736, 20756,
19301, 19328,	\@maketitle@hook . .	20766, 20776,
19331, 20040,	. . . . . 118, 15397	20787, 21501,
20067, 20070,	\@makewincaption . 17851	21521, 21531,
20813, 20840, 20843	\@marbox . . . . . 7298,	21541, 21552, 21574
\@makefrontispiece	7300, 7304, 7308,	\@mkboth . . . . . 571,
. . 19565, 19579,	7309, 7342, 7344,	599, 615, 706,
19594, 20305,	7348, 7352, 7353,	864, 969, 1116,
20319, 20334,	7386, 7388, 7392,	1219, 2073, 8711,
21078, 21092, 21107	7396, 7397, 24188,	8785, 8888, 8973,
\@makeother . . . . 5358,	24190, 24194,	9098, 9282, 10844,
5404, 5516, 5524	24198, 24199,	11115, 12952,
\@makeschapterhead	24232, 24234,	18245, 18342,
8710, 8887, 9076,	24238, 24242,	18500, 18736,
9097, 9265, 11098,	24243, 24264,	18930, 18959, 19133
12934, 18244,	24274, 24277,	\@mklab . . . . . 23780
18499, 18958,	24285, 24287,	\@mkpream . 392, 16051,
19123, 21961, 21966	24288, 24290,	21640, 21672, 23937
\@makespecialcolbox	24291, 24292,	\@mobile 4522, 10164, 10262
. . . . . 12822, 14186	24301, 24305, 24306	\@modernpoem . . 8628, 8672
\@maketitle . . . . 120,	\@mathmargin . . 10714,	\@mpLTRfootnotetext
316, 320, 460, 462,	10721, 10729, 10736	. . . . . 2223,
467, 476, 486, 811,	\@maxdepth . . . . .	11178, 11196,
813, 818, 825,	. . 11391, 12833,	11197, 11286,
835, 1063, 1065,	12848, 12871,	11312, 11320,
1070, 1077, 1087,	12884, 14196,	11521, 11630,
1313, 1315, 1320,	24129, 24145, 24156	11733, 11842,
1327, 1337, 4060,	\@mentempa . . . 16894,	11951, 12060,
4066, 9154, 9156,	16896, 16910,	12169, 12278,
9161, 9170, 9180,	16917, 16921, 16926	12387, 12556,
10913, 10915,	\@menubordercolor .	12618, 13633,
10920, 10927,	. . . . . 15190, 15192	13675, 14736,
10937, 11010,	\@menucolor . . . . . 15201	14751, 14774,
11012, 11017,	\@midlist . . . . 12817,	14838, 16242, 21822
11026, 11036,	12818, 14182, 14183	\@mpRTLfootnotetext
13013, 13015,	\@minipagefalse 4395,	. . . . . 2207,
13020, 13027,	7319, 7328, 7363,	11179, 11198,
13037, 15399,	7372, 7407, 7416,	11199, 11297,
16847, 16849,	11471, 13689,	11313, 11321,
16856, 18447,	15661, 16950,	11522, 11631,
18449, 18454,	24209, 24218,	11734, 11843,
18461, 18471,	24253, 24262, 24413	11952, 12061,



12170, 12279,	13635, 13636,	\@mpfourcolLTRfootnotetext
12388, 12557,	13649, 13650,	..... 11733, 11796
12619, 13619,	13683, 13684,	\@mpfourcolRTLfootnotetext
13676, 14725,	13687, 16227, 16232	..... 11734, 11809
14750, 14763,	\@mpfootinsv@l ....	\@mpfourcolfootnotetext
14839, 16243, 21823	.. 11433, 11449,	..... 11732, 11784
\@mparbottom .....	11492, 12712,	\@mplistdepth 13514, 13677
.. 24275, 24283,	12721, 12733, 12736	\@mpninecol@footgroupv@r
24284, 24285, 24286	\@mpfootinsv@r 11432,	..... 12282
\@mpargs .....	11491, 11573,	\@mpninecolLTRfootnotetext
. 11474, 13667, 13692	11574, 11585,	..... 12278, 12341
\@mparswitchfalse . 6736	11586, 11598,	\@mpninecolRTLfootnotetext
\@mparswitchtrue .. 6731	11599, 11679,	..... 12279, 12354
\@mpeightcol@footgroupv@r	11680, 11690,	\@mpninecolfootnotetext
..... 12173	11691, 11702,	..... 12277, 12329
\@mpeightcolLTRfootnotetext	11703, 11785,	\@mppara@LTRfootgroupv@l
..... 12169, 12232	11786, 11797,	..... 12562, 12624
\@mpeightcolRTLfootnotetext	11798, 11810,	\@mppara@footgroupv@r
..... 12170, 12245	11811, 11894,	..... 12561, 12623
\@mpeightcolfootnotetext	11895, 11906,	\@mpparaLTRfootnotetext
..... 12168, 12220	11907, 11919,	. 12556, 12618, 12732
\@mpfivecol@footgroupv@r	11920, 12003,	\@mpparaRTLfootnotetext
..... 11846	12004, 12015,	..... 12557, 12746
\@mpfivecolLTRfootnotetext	12016, 12028,	\@mpparafootnotetext
..... 11842, 11905	12029, 12112,	. 12555, 12616, 12707
\@mpfivecolRTLfootnotetext	12113, 12124,	\@mpsevenscol@footgroupv@r
..... 11843, 11918	12125, 12137,	..... 12064
\@mpfivecolfootnotetext	12138, 12221,	\@mpsevenscolLTRfootnotetext
..... 11841, 11893	12222, 12233,	..... 12060, 12123
\@mpfn 2249, 2275, 2301,	12234, 12246,	\@mpsevenscolRTLfootnotetext
4276, 4279, 4282,	12247, 12330,	..... 12061, 12136
4298, 4306, 4314,	12331, 12342,	\@mpsevenscolfootnotetext
7707, 7713, 7736,	12343, 12355,	..... 12059, 12111
7742, 7765, 7771,	12356, 12439,	\@mpsixcol@footgroupv@r
8567, 8570, 8573,	12440, 12451,	..... 11955
8587, 8594, 8601,	12452, 12464,	\@mpsixcolLTRfootnotetext
13530, 13535,	12465, 12710,	..... 11951, 12014
13539, 13544,	12719, 12747, 12750	\@mpsixcolRTLfootnotetext
13673, 13703,	\@mpfootnotetext 2191,	..... 11952, 12027
13718, 14711,	11177, 11194,	\@mpsixcolfootnotetext
14722, 14733,	11195, 11275,	..... 11950, 12002
14933, 14964,	11311, 11319,	\@mptencol@footgroupv@r
14995, 15058,	11520, 11629,	..... 12391
16238, 21754, 21761	11732, 11841,	\@mptencolLTRfootnotetext
\@mpfootins .....	11950, 12059,	..... 12387, 12450
2193, 2195, 2209,	12168, 12277,	\@mptencolRTLfootnotetext
2211, 2225, 2227,	12386, 12555,	..... 12388, 12463
11276, 11277,	12614, 12616,	\@mptencolfootnotetext
11287, 11288,	13647, 13674,	..... 12386, 12438
11298, 11299,	14714, 14749,	\@mpthreecol@footgroupv@r
11435, 11443,	14752, 14837,	..... 11634
11451, 11461,	16241, 21819, 21821	\@mpthreecolLTRfootnotetext
11465, 11468,	\@mpfourcol@footgroupv@r	..... 11630, 11689
13621, 13622,	..... 11737	



\@mpthreecolRTLfootnotetext	22404,	22406,	12265,	12266,
..... 11631, 11701	22409,	22412,	12369,	12370,
\@mpthreecolfootnotetext	22424,	22469,	12374,	12375,
..... 11629, 11678	22470,	22471,	12478,	12479,
\@mptwocol@footgroupv@r	22472,	22473,	12483,	12484,
..... 11525	22474,	22475,	12762,	12768,
\@mptwocolLTRfootnotetext	22476,	22477,	12772,	12778,
..... 11521, 11584	22492,	22493,	12782,	12787,
\@mptwocolRTLfootnotetext	22494,	22495,	12791,	12796,
..... 11522, 11597	22497,	22498,	13243,	19481,
\@mptwocolfootnotetext	22500,	22503,	19816,	20221,
..... 11520, 11572	22506,	22514,	20577,	20994,
\@namedef ..... 6287,	22515,	22517,	21342,	21973,
6438, 8625, 11476,	22520,	22523,	22245,	22246,
11511, 11610,	22536,	22776,	22247,	22250,
11615, 11620,	22777,	22778,	22253,	22258,
11713, 11718,	22779,	22780,	22259,	22264,
11723, 11822,	22781,	22782,	22268,	22269,
11827, 11832,	22783,	22784,	22271,	22272,
11931, 11936,	22823,	22829,	22274,	22275,
11941, 12040,	22836,	22842,	22277,	22278,
12045, 12050,	22849,	22853,	22280,	22281,
12149, 12154,	22854,	22855,	22288,	22293,
12159, 12258,	22856,	22858,	22294,	22377,
12263, 12268,	22859,	22861,	22424,	22428,
12367, 12372,	22864,	22867,	22429,	22441,
12377, 12476,	22875,	22876,	22451,	22452,
12481, 12536,	22878,	22881,	22536,	22540,
12590, 12761,	22884,	22909,	22541,	22562,
12771, 12781,	22913,	22914,	22578,	22581,
12790, 12799,	22915,	22917,	22582,	22586,
12811, 16165,	22918,	22920,	22592,	22593,
22244, 22283,	22923,	22926,	22594,	22598,
22284, 22285,	22934,	22935,	22601,	22605,
22286, 22287,	22937,	22940,	22607,	22621,
22288, 22289,	22943,	22963,	22623,	22625,
22290, 22291,	22966,	22970,	22631,	22649,
22292, 22310,	23010, 23013, 23017		22650,	22652,
22311, 22312,	\@nameuse . 6284, 8623,		22653,	22663,
22313, 22314,	10644, 10694,		22665,	22668,
22315, 22316,	10697, 10743,		22669,	22671,
22317, 22318,	11612, 11613,		22673,	22674,
22333, 22334,	11617, 11618,		22682,	22684,
22335, 22336,	11715, 11716,		22688,	22689,
22338, 22339,	11720, 11721,		22693,	22697,
22341, 22344,	11824, 11825,		22701,	22702,
22347, 22355,	11829, 11830,		22770,	22803,
22356, 22358,	11933, 11934,		22810,	22815,
22361, 22364,	11938, 11939,		22816,	22823,
22377, 22382,	12042, 12043,		22902,	22909,
22383, 22384,	12047, 12048,		22980,	23047,
22386, 22387,	12151, 12152,		23566, 23600, 24337	
22389, 22392,	12156, 12157,		\@ne ..... 137,	
22395, 22403,	12260, 12261,		142, 353, 362, 365,	



459, 810, 1062, 1312, 1378, 1387, 1390, 1391, 1392, 1425, 1428, 1429, 1430, 2192, 2208, 2224, 2349, 3849, 3854, 3855, 3856, 4351, 4653, 4681, 4716, 5023, 5077, 5131, 5861, 6020, 6091, 6152, 6645, 6654, 9153, 9603, 10912, 11009, 13012, 13620, 13634, 13648, 13960, 15066, 15067, 15072, 15560, 15616, 15623, 15632, 15643, 16053, 16846, 16923, 17186, 17645, 17665, 18446, 18587, 18784, 18827, 18831, 19013, 19311, 19338, 19340, 19555, 19722, 20050, 20077, 20079, 20295, 20483, 20823, 20850, 20852, 21068, 21248, 21702, 21706, 21767, 21776, 21783, 22085, 22428, 22429, 22540, 22541, 22770, 23480, 23627, 23773, 23814, 23849, 23851, 23852, 23853, 23858, 23860, 23861, 23862, 23867, 23869, 23870, 23871, 23876, 23878, 23879, 23880, 23956, 23958, 24001, 24265	7342, 7385, 7386, 24187, 24188, 24231, 24232, 24264 \@nextchar . . . . 359, 361, 362, 363, 365, 366, 367, 368, 369, 372, 373, 374, 1384, 1386, 1387, 1388, 1390, 1391, 1392, 1393, 1394, 1395, 1396, 1399, 1400, 1401, 1413, 1415, 1416, 1481, 1482, 1483, 9424, 9425, 9426, 21773, 21775, 21776, 21777, 21778, 21779, 21780, 21781, 21783, 21784, 21785, 21786, 21787, 21790, 21791, 21792 \@nil . . . . 1466, 1467, 1469, 1470, 9413, 10333, 10390, 15233, 15242, 15244, 15256, 21888 \@ninecol@footgroupv@r . . . . . 12276 \@ninecolLTRfootfmt . 12302, 12323, 12351 \@ninecolLTRfootnotetext . . . . 12271, 12295 \@ninecolRTLfootfmt . 12312, 12326, 12363 \@ninecolRTLfootnotetext . . . . 12272, 12305 \@ninecolfootfmt . . . 12292, 12320, 12338 \@ninecolfootnotetext . . . . 12270, 12285 \@nmbrrlistfalse . . 23781 \@nobreakfalse . 520, 672, 916, 1155, 8749, 8926, 9213, 11068, 12904, 18301, 18673, 18888, 19073, 22032, 22036, 22571 \@nobreaktrue . . 519, 671, 915, 1154, 8748, 8925, 9212, 11067, 12903, 18300, 18672,	18887, 19072, 22031, 22035, 22570 \@nocnterr . . . . . 331 \@nocounterr . . . . . 330 \@nodocument . . . . . 4320 \@noitemerr . . . . . . . . 95, 298, 587, 719, 982, 1232, 2407, 4645, 8798, 8986, 9298, 10857, 11131, 12965, 15337, 17582, 18355, 18749, 18946, 19149, 19689, 19696, 20450, 20457, 21215, 21222, 21935 \@nonlatinfalse 3634, 3753, 15650, 15694 \@nonlatintrue . 3635, 3755, 15650, 15694 \@normalLTRfootfmt . 11227, 11272, 11295 \@normalRTLfootfmt . 11221, 11258, 11306 \@normalcrr . . . . . 16194 \@normalfootfmt . . . . 11215, 11244, 11284 \@notprerr . . . 5604, 5619 \@nx . . . . . 124, 125, 334, 15403, 15404 \@nxtrcol . . . . . . 13235, 13237, 13278 \@oddfoot . . . . . 2045, 2050, 2086, 2091, 4026, 13248, 13255, 24340, 24357 \@oddhead . 1969, 2049, 2074, 2091, 13247, 13254, 24340, 24356 \@oldmakefnmark 19430, 19431, 19551, 19552, 20170, 20171, 20291, 20292, 20943, 20944, 21064, 21065 \@onefilewithoptions . . . 6234, 6235, 6242 \@onelevel@sanitize 4323 \@onlypreamble . . . . . . . . 3730, 6457, 6467, 6471, 12652 \@openbib@code . . . . . . 578, 713, 976,
\@newlistfalse . . . . . . . . 13287, 24326 \@next . . . . . 4341, 7297, 7298, 7341,		



1226, 4638, 4649,	\@outputpage ... 9681,	\@parboxrestore . 42,
8792, 8980, 9289,	9685, 9740, 9744,	56, 72, 245, 259,
10851, 11122,	13144, 13147,	274, 2149, 2166,
12959, 18349,	13182, 13186,	2183, 2199, 2215,
18743, 18937,	13262, 13266,	2231, 4390, 7048,
19140, 19672,	13271, 13282,	7316, 7360, 7404,
20433, 21198, 21926	14017, 14021,	9343, 11280,
\@otarlinesep 21662, 21668	14070, 14074,	11291, 11302,
\@outerparskip .... 8666	16120, 16132,	11428, 11577,
\@outputbox 9638, 9641,	17070, 17075,	11589, 11602,
9642, 9656, 9668,	17167, 17172,	11683, 11694,
9673, 9675, 9701,	17703, 17704,	11706, 11789,
9704, 9705, 9719,	24067, 24071,	11801, 11814,
9729, 9732, 9734,	24110, 24114, 24321	11898, 11910,
11390, 11392,	\@ovbtrue ..... 13070	11923, 12007,
12824, 12826,	\@ovdx ..... 13083, 13091	12019, 12032,
12827, 12832,	\@ovdy ..... 13084, 13092	12116, 12128,
12847, 12849,	\@ovhorz ... 13089, 13090	12141, 12225,
12863, 12874,	\@ovltrue ..... 13070	12237, 12250,
13116, 13119,	\@ovri ..... 13082	12334, 12346,
13132, 13141,	\@ovro 13082, 13091, 13092	12359, 12443,
13152, 13155,	\@ovrtrue ..... 13070	12455, 12468,
13169, 13179,	\@ovttrue ..... 13070	12724, 12738,
13260, 13265,	\@ovvert ... 13087, 13088	12752, 12766,
13312, 13980,	\@ovxx ..... 13072,	12776, 13287,
13987, 13988,	13073, 13076,	13565, 13582,
14004, 14014,	13083, 13088,	13598, 13626,
14029, 14036,	13089, 13093, 13094	13640, 13654,
14037, 14053,	\@ovyy .. 13074, 13075,	13672, 16971,
14065, 14104,	13076, 13084, 13090	17185, 23832,
14116, 14150,	\@pagedp ... 24293, 24303	24206, 24250, 24327
14152, 14163,	\@pageht ..... 9762,	\@parboxto . 23835, 23842
14188, 14191,	9768, 24276, 24283	\@parmoderr .....
14192, 16137,	\@par ..... 22705	4339, 7294, 7338,
16139, 16141,	\@para@LTRfootgroupv@l	7382, 24184, 24228
16988, 16991,	..... 12552, 12610	\@part ..... 550, 10815
16992, 17022,	\@para@footgroupv@r	\@pboxswfalse 13663, 23818
17047, 17050,	..... 12545, 12603	\@pboxswtrue ..... 23840
17052, 17064,	\@para@footstartv@l	\@pdfm@mark .....
17088, 17091,	..... 12553, 12611	.. 15074, 15090,
17092, 17122,	\@para@footstartv@r	15124, 15155,
17147, 17150,	..... 12546, 12604	15184, 15259,
17152, 17162,	\@paraLTRfootfmt ..	15264, 15275,
17711, 17714,	. 12680, 12699, 12743	15280, 15291,
17719, 24032,	\@paraLTRfootnotetext	15297, 15308, 15314
24035, 24036,	. 12539, 12597, 12671	\@pdfremotestartview
24050, 24062,	\@paraRTLfootfmt ..	..... 15105
24079, 24082,	. 12692, 12703, 12757	\@phone 4523, 10165, 10263
24083, 24097,	\@paraRTLfootnotetext	\@photo .. 4528, 10138,
24107, 24126,	..... 12540, 12683	10140, 10269, 10271
24128, 24142,	\@parafootfmt .....	\@photowidth ... 4527,
24144, 24155, 24384	. 12668, 12695, 12729	4528, 10140, 10236
\@outputdblcol 13234,	\@parafootnotetext	\@pkgextension ....
24120, 24121, 24122	. 12538, 12595, 12653	6262, 6273, 6337,



6346, 6354, 6357, 6365	21475, 21501,	22829, 22836,
\@plus . . . . . 24,	21502, 21521,	23178, 23283, 23981
103, 223, 510, 527,	21522, 21531,	\@preamble . . . . 393,
602, 617, 646, 649,	21532, 21541,	394, 404, 406,
662, 680, 687, 866,	21552, 21573,	1438, 1446, 16057,
873, 876, 889, 906,	21839, 21868,	21641, 21643,
924, 1118, 1129,	21989, 22264,	21650, 21680,
1132, 1145, 1163,	22432, 22435,	21681, 21689,
1171, 4562, 4648,	22439, 22544,	23938, 23940, 23949
6753, 6754, 6755,	22547, 22551,	\@preameightfmt 12206,
6762, 6763, 6764,	22626, 22963,	12212, 12215, 12218
6766, 6767, 7972,	22966, 22970,	\@preamerr . . . . .
7973, 7974, 7976,	23087, 23271, 23969	. 375, 1402, 1432,
7977, 8043, 8713,	\@pnumwidth . . . 13, 15,	21793, 23947, 23960
8724, 8727, 8740,	208, 210, 513, 514,	\@preamfivefmt 11879,
8756, 8763, 8890,	516, 530, 531, 535,	11885, 11888, 11891
8901, 8904, 8917,	665, 666, 668, 690,	\@preamfntext . 11239,
8933, 8940, 9101,	691, 695, 892, 893,	11253, 11267,
9204, 9219, 10791,	897, 909, 910, 912,	11423, 11531,
10805, 11060,	1148, 1149, 1151,	11541, 11551,
12697, 12701,	1174, 1175, 1179,	11640, 11649,
12705, 12895,	8743, 8744, 8746,	11658, 11743,
12910, 13860,	8766, 8767, 8771,	11753, 11763,
13898, 15346,	8920, 8921, 8923,	11852, 11862,
15366, 17237,	8943, 8944, 8948,	11872, 11961,
17249, 17572,	9207, 9208, 9210,	11971, 11981,
18247, 18276,	9222, 9223, 9227,	12070, 12080,
18279, 18292,	9488, 9493, 9494,	12090, 12179,
18308, 18315,	10794, 10795,	12189, 12199,
18502, 18648,	10799, 10808,	12288, 12298,
18651, 18664,	10809, 10811,	12308, 12397,
18680, 18687,	11062, 11063,	12407, 12417,
18880, 18894,	11065, 12898,	12663, 12675, 12687
18962, 19064,	12899, 12901,	\@preamfourfmt 11770,
19079, 19368,	12913, 12914,	11776, 11779, 11782
19375, 19384,	12918, 15379,	\@preamninefmt 12315,
19447, 19473,	15381, 17257,	12321, 12324, 12327
19518, 19929,	18295, 18296,	\@preamnormalfmt . .
19947, 19965,	18298, 18318,	. . . . . 11211,
19966, 19983,	18319, 18323,	11216, 11222, 11228
19984, 19993,	18667, 18668,	\@preamsevenfmt 12097,
19994, 20003,	18670, 18690,	12103, 12106, 12109
20014, 20108,	18691, 18695,	\@preamsixfmt . 11988,
20115, 20124,	18882, 18883,	11994, 11997, 12000
20187, 20213,	18885, 18897,	\@preamtenfmt . 12424,
20258, 20691,	18898, 18902,	12430, 12433, 12436
20710, 20736,	19067, 19068,	\@preamthreefmt 11664,
20737, 20756,	19070, 19082,	11670, 11673, 11676
20757, 20766,	19083, 19087,	\@preamtwofmt . 11558,
20767, 20776,	21895, 21904,	11564, 11567, 11570
20787, 20881,	21906, 22294,	\@printcites . . . . . 18134
20888, 20897,	22443, 22444,	\@pstrickserr . . . . 18088
20960, 20986,	22456, 22555,	\@ptsize . . . . . 4426,
21031, 21456,	22556, 22565,	4427, 4428, 4429, 4436



\@publisher ... 8135, 8188	\@resetst@tics ... 13272	5531, 5543, 5544,
\@publishers .. 19474,	\@restonecolfalse .	5553, 6199, 6327, 6369
19619, 20214,	... 98, 218, 592,	\@secpenalty ..... 5,
20359, 20987, 21132	608, 857, 1109,	200, 509, 526, 661,
\@quote .. 4529, 10144,	8704, 8881, 9091,	679, 686, 888,
10146, 10273, 10275	15341, 18238,	905, 923, 1144,
\@quotebox ..... 18133	18493, 18952, 21947	1162, 1170, 10790,
\@quotecolour .....	\@restonecoltrue ..	10804, 15371,
... 4491, 4508, 4618	... 98, 218, 594,	21880, 22012,
\@r@m@size ..... 21675	610, 859, 1111,	22067, 22431,
\@raggedtwoe@abdhook	8706, 8883, 9093,	22438, 22543, 22550
. 18208, 18213, 18223	15341, 18240,	\@sectiontitlecolour
\@raggedtwoe@document@opt	18495, 18954, 21949	..... 4492, 4509
. 18207, 18211, 18229	\@resumename .. 4461, 4517	\@seesize .. 21672, 21675
\@raggedtwoe@everyselectfont	\@revlabeltrue . 743,	\@setcol ..... 13279
..... 18147,	995, 1245, 8831,	\@setcolbox . 13240, 13276
18160, 18173, 18184	9008, 18379, 18518	\@setcopyright 112, 15391
\@raggedtwoe@footmisctrue	\@rightcolumn . 17014,	\@setfontsize .....
..... 18210	17019, 17020,	6752, 6761, 7971,
\@raggedtwoe@newline	17029, 17030,	7981, 7982, 7983,
. 18140, 18153, 18166	17038, 17042,	7984, 7985, 7986, 7987
\@raggedtwoe@raggedrightboxes@opt	17048, 17114,	\@setfpsbit .....
..... 18186,	17119, 17120,	... 4355, 4358, 4361
18205, 18209, 18226	17129, 17130,	\@setmarks .... 9648,
\@raggedtwoe@sav@newline	17138, 17142, 17148	9650, 9680, 9711,
..... 18177	\@rightskip ... 16190,	9713, 9739, 13125,
\@raggedtwoe@sav@dc	18142, 18143,	13127, 13144,
..... 18137,	18155, 18156,	13161, 13163,
18150, 18163, 18176	18168, 18169,	13181, 13994,
\@raggedtwoe@spaceskipfalse	18179, 18180, 23883	13996, 14016,
..... 18183	\@rjfieldfalse ... 24311	14043, 14045,
\@raggedtwoe@spaceskiptrue	\@runbordercolor ..	14069, 16998,
. 18146, 18159, 18172	..... 15130, 15132	17000, 17069,
\@rc@ifdefinable ..	\@runcolor ..... 15146	17098, 17100,
..... 5010, 5267	\@s@size ..... 21675	17166, 24042,
\@regtocline ... 643,	\@s@bidi@AfterClass	24044, 24066,
681, 698, 870,	..... 6294,	24089, 24091, 24109
900, 925, 1126,	6303, 6315, 6324	\@setminipage .. 7050,
1164, 1182, 8721,	\@s@bidi@AfterPackage	13679, 13954, 16973
8757, 8775, 8898,	..... 6339,	\@setpar ..... 18781,
8934, 8952, 18273,	6347, 6358, 6366	18824, 19334,
18309, 18327,	\@sarray ..... 21634	19345, 20073,
18645, 18681, 18699	\@savemabox ..... 24305	20085, 20846, 20858
\@rememsize . 21672, 21675	\@secondoftwo .. 3609,	\@settab ..... 8633
\@removefromreset .	3615, 3621, 4872,	\@sevenscol@footgroupv@r
..... 17591, 17593	4876, 4884, 4888,	..... 12058
\@reqcolroom .....	4896, 4900, 4906,	\@sevenscollRfootfmt
.... 9762, 9763,	4914, 4927, 4936,	. 12084, 12105, 12133
9764, 9765, 9767,	4945, 4954, 4960,	\@sevenscollRfootnotetext
9768, 9769, 9770,	4963, 4974, 4979,	..... 12053, 12077
9771, 9772, 10012	4986, 5365, 5375,	\@sevenscolRTLfootfmt
\@resetactivechars	5376, 5377, 5378,	. 12094, 12108, 12145
..... 13285, 24324	5384, 5393, 5399,	\@sevenscolRTLfootnotetext
\@resetdyn@mics .. 13273	5423, 5451, 5479,	..... 12054, 12087



\@sevendcolfootfmt .	16037, 16043,	\@temp@last@bibkey
. 12074, 12102, 12120	21644, 21682, 23941	. . . . 7504, 7505,
\@sevendcolfootnotetext	\@startsection 23, 15365	7511, 7523, 7524,
. . . . . 12052, 12067	\@starttoc . . . 7938, 7946	7530, 7542, 7543,
\@sharp . . . . . 400,	\@stopfield 8640, 8655,	7549, 7570, 7571, 7581
1440, 1441, 1442,	8659, 8687, 24311	\@tempa . . . . . 123,
1448, 1449, 1450,	\@stopline . . 8659, 24311	126, 133, 134, 135,
15233, 15239,	\@stpelt . 5726, 5730, 5732	136, 790, 792, 794,
16049, 21646,	\@strip . . . . . 17182	798, 1042, 1044,
21681, 21687, 23944	\@subjclass . . . . . 324	1046, 1050, 1292,
\@sixcol@footgroupv@r	\@subject 19455, 19456,	1294, 1296, 1300,
. . . . . 11949	19618, 20195,	2254, 2280, 2306,
\@sixcolLTRfootfmt	20196, 20358,	4683, 4690, 4721,
. 11975, 11996, 12024	20968, 20969, 21131	4722, 4725, 4828,
\@sixcolLTRfootnotetext	\@subsectioncolour	4829, 4832, 4834,
. . . . . 11944, 11968	. . . . . 4494, 4510	4836, 4837, 4840,
\@sixcolRTLfootfmt	\@subtitle . . . 19461,	4842, 4844, 4845,
. 11985, 11999, 12036	19614, 20201,	4848, 4850, 4852,
\@sixcolRTLfootnotetext	20354, 20974, 21127	4853, 4856, 4858,
. . . . . 11945, 11978	\@tabacol 4268, 16034,	5024, 5034, 5040,
\@sixcolfootfmt . . .	21628, 23744, 23924	5052, 5059, 5065,
. 11965, 11993, 12011	\@tabarray . 381, 405,	5078, 5088, 5094,
\@sixcolfootnotetext	409, 4270, 16021,	5106, 5113, 5119,
. . . . . 11943, 11958	16023, 23739,	5132, 5145, 5151,
\@skip@bove . 21666, 21668	23746, 23926, 23952	5169, 5179, 5185,
\@spaces . . . . .	\@tabclassiv . . . . .	13071, 14256,
. 21704, 21745, 21750	. . . 4270, 16035,	14257, 14258,
\@spart . . . . . 10834	21630, 23746, 23926	14259, 14296,
\@specialpagefalse	\@tabclassz . . . . .	14299, 14300,
. . . . . 13242, 24337	1443, 4269, 16035,	14306, 14317,
\@specialstyle . . . .	21629, 23745, 23925	14318, 14324,
. . . . . 13243, 24337	\@tabcr . . . . . 8636, 8646	14329, 14330,
\@stabarray . . . . . 21630	\@tabminus . . . . . 8634	14332, 14335,
\@stabular . . . . . 21626	\@tabplus . . . . . 8633	14392, 14393,
\@star@or@long . 5005,	\@tabular 377, 4256, 23922	14394, 14395,
5237, 5261, 5272	\@tabularcr . . . . .	14852, 14856,
\@startcolumn . . . . 14079	. . . 4270, 16039,	14859, 14871,
\@startdblcolumn . .	21630, 23746, 23926	14890, 14894,
. . . . . 9684, 9686,	\@tagsextension 4805, 4808	14897, 14909,
9743, 9745, 13145,	\@tarlinesep . . 21668,	15402, 15405,
13147, 13185,	21669, 21670,	15456, 15457,
13186, 13269,	21671, 21674, 21676	16101, 16102,
13271, 14020,	\@temp@bibkey . . 7505,	16104, 16105,
14022, 14073,	7524, 7543, 7571	17594, 17595,
14075, 17073,	\@temp@bibkeyx . . . .	17596, 17599,
17076, 17170,	. . . . 7510, 7511,	17606, 17612,
17173, 24070,	7513, 7514, 7515,	18426, 18428,
24072, 24113, 24115	7516, 7529, 7530,	18430, 18434,
\@startfield . . . . . 8675	7532, 7533, 7534,	18567, 18569,
\@startpbox . . . . 1415,	7535, 7548, 7549,	18571, 18575,
1416, 1481, 1482,	7551, 7552, 7553,	19158, 19159,
1483, 9424, 9425,	7554, 7580, 7581,	19201, 19202,
9426, 16036,	7583, 7584, 7585, 7586	19333, 19674,
		19677, 20072,



20435, 20438,	17856, 21727,	1172, 1177, 1460,
20845, 21200,	21747, 23230,	1461, 1493, 1494,
21203, 21753,	23233, 23238,	1495, 2062, 3113,
21755, 21760,	23242, 23246,	3114, 4423, 4425,
21762, 23269,	23250, 23254,	7959, 7960, 8729,
23286, 23290,	23258, 23262,	8742, 8764, 8769,
23291, 23292,	23266, 23907,	8906, 8919, 8941,
23301, 23315,	23908, 23963,	8946, 9205, 9220,
23491, 23494,	23964, 23965,	9225, 9436, 9437,
23500, 23504, 23518	23966, 24190,	9438, 9486, 9491,
\@tempb . . . . . 4721,	24234, 24372,	10302, 10303,
4722, 4724, 4725,	24379, 24380,	10304, 10305,
14256, 14257,	24409, 24410, 24414	10323, 10324,
14297, 14299,	\@tempc . 14298, 14300,	10325, 10326,
14327, 14329,	14306, 15484, 15489	10332, 10334,
14330, 14332,	\@tempcnta . . . . .	10335, 10339,
14335, 17598,	1406, 1465, 1466,	10340, 10341,
17599, 17605,	1467, 1469, 1470,	10342, 10343,
17606, 17611, 17612	4343, 4349, 4351,	10351, 10355,
\@tempboxa . . . . .	4364, 4365, 4371,	10358, 10359,
1975, 1976, 1977,	4372, 4698, 4700,	10360, 10374,
1978, 1979, 2079,	4704, 9411, 9413,	10375, 10376,
2080, 2081, 2082,	10331, 10388,	10389, 10391,
2083, 7300, 7344,	15523, 15525,	10392, 10396,
7388, 9778, 9779,	15528, 15551,	10397, 10398,
10356, 10357,	15552, 15560,	10399, 10400,
10358, 10359,	17670, 17672,	10406, 10409,
10361, 10410,	17673, 17679,	10412, 10413,
10411, 10412,	17683, 17696,	10414, 10426,
10413, 10415,	17752, 17754,	10427, 10428,
11474, 13082,	17758, 17761,	10644, 10645,
13086, 13094,	17763, 19526,	10650, 10651,
13095, 13220,	19528, 20266,	10652, 10653,
13221, 13222,	20268, 21039,	10654, 10769,
13668, 13692,	21041, 21740,	10771, 10773,
13797, 13842,	23077, 23078,	10792, 10797,
13849, 13859,	23079, 23098,	10807, 12532,
13862, 13866,	23099, 23100,	12566, 12567,
13868, 13874,	23102, 23104,	12568, 12569,
13908, 13910,	23186, 23187,	12571, 12580,
13916, 13929,	23188, 24265,	12581, 12584,
13933, 13934,	24267, 24270,	12585, 12628,
14222, 14318,	24272, 24274, 24296	12629, 12630,
14335, 14484,	\@tempcntb . . . . .	12631, 12633,
14665, 14667,	4369, 4370, 4371,	12642, 12643,
15653, 15658,	17671, 17672,	12646, 12647,
15662, 16066,	17679, 17683, 17696	12834, 12836,
16067, 16070,	\@tempdima . . . . 8, 10,	12897, 12911,
16899, 16902,	12, 14, 203, 205,	12916, 13083,
16906, 16908,	207, 209, 385, 386,	13084, 13087,
16914, 16916,	388, 511, 528, 533,	13088, 13666,
16917, 16946,	651, 664, 688, 693,	13670, 14191,
16947, 16951,	878, 879, 890, 895,	14193, 14315,
17852, 17853,	908, 1134, 1147,	14317, 14322,



14324,	14325,	22202,	22218,	20089,	20091,
14327,	14340,	22222,	22253,	20093,	20861,
14345,	14350,	22257,	22441,	20862,	20864,
14354,	15374,	22447,	22553,	20866,	21673,
15376,	15378,	22593,	22597,	21676,	21678,
15380,	15499,	22600,	22604,	23095,	23101,
15504,	15520,	22607,	22609,	23103,	23108,
15521,	15526,	22649,	22652,	23110,	23113,
16031,	16041,	22653,	22657,	23117,	23121,
16046,	17017,	23094,	23096,	23129,	23131,
17021,	17117,	23125,	23128,	23132,	23145,
17121,	17182,	23135,	23138,	23151,	23153,
17207,	17230,	23142,	23147,	23456,	23457,
17242,	17243,	23150,	23162,	23459,	23461,
17254,	17255,	23195,	23197,	23464,	23465,
17674,	18281,	23198,	23201,	23467,	23470,
18294,	18316,	23204,	23208,	23484,	23485,
18321,	18653,	23215,	23217,	23486,	23490,
18666,	18688,	23276,	23277,	23503,	23507,
18693,	18782,	23290,	23292,	23508,	23834, 23835
18783,	18784,	23300,	23307,	\@tempdimc	9406, 19332,
18825,	18826,	23453,	23454,	19343,	19344,
18827,	18895,	23473,	23484,	19358,	20071,
18900,	19065,	23485,	23486,	20083,	20084,
19080,	19085,	23487,	23499,	20098,	20844,
19203,	19204,	23502,	23508,	20856,	20857, 20871
19335,	19336,	23509,	23831,	\@tempskipa	.....
19338,	19340,	23832,	23974,	...	8665, 8666, 8667
19346,	19347,	23975,	24275,	\@tempswafalse	....
19351,	19353,	24276,	24277,	....	1857, 1858,
19747,	19748,	24278,	24281,	6474,	6521, 10343,
20074,	20075,	24284,	24287,	10400,	14263,
20077,	20079,	24289,	24312, 24313	19484,	20224,
20086,	20087,	\@tempdimb	.... 9405,	20997,	23538, 23581
20091,	20093,	9859, 9879,	10302,	\@tempwatrue	.. 1857,
20508,	20509,	10303,	10323,	6473,	6518, 10337,
20847,	20848,	10324,	10375,	10394,	19480,
20850,	20852,	10377,	10380,	20220,	20993, 24024
20859,	20860,	10427,	10429,	\@temptokena	121, 125,
20864,	20866,	10432,	10647,	15400,	15404, 17738
21273,	21274,	10650,	12582,	\@tempx	..... 8567,
21673,	21676,	12583,	12584,	8568,	14930, 14942
21678,	21741,	12644,	12645,	\@tempxi	..... 8570,
21800,	21801,	12646,	13076,	8571,	14961, 14973
21802,	22022,	13077,	13078,	\@tempxii	..... 8573,
22026,	22053,	13079,	13081,	8574,	14992, 15004
22057,	22076,	14316,	14317,	\@tempy	..... 4276, 4277
22080,	22093,	14323,	14324,	\@tempyi	..... 4279, 4280
22097,	22110,	14326,	14327,	\@tempyii	.... 4282, 4283
22114,	22127,	15521,	15522,	\@tencol@footgroupv@r	..... 12385
22131,	22144,	15524,	17182,	\@tencolLTRfootfmt	
22148,	22161,	17207,	19348,	. 12411, 12432, 12460	
22165,	22179,	19349,	19351,		
22183,	22198,	19353,	20088,		



<code>\@tencolLTrfootnotetext</code>	16835, 16858,	11963, 11973,
. . . . . 12380, 12404	18411, 18417,	11983, 12009,
<code>\@tencolRTLfootfmt</code>	18456, 18462,	12022, 12034,
. 12421, 12435, 12472	18550, 18558,	12072, 12082,
<code>\@tencolRTLfootnotetext</code>	18597, 18605,	12092, 12118,
. . . . . 12381, 12414	18800, 18808,	12131, 12143,
<code>\@tencolfootfmt</code> . . .	18841, 18849,	12181, 12191,
. 12401, 12429, 12447	18987, 18995,	12201, 12227,
<code>\@tencolfootnotetext</code>	19023, 19031,	12240, 12252,
. . . . . 12379, 12394	19477, 19496,	12290, 12300,
<code>\@testopt</code> . . . . . 5239,	19519, 19600,	12310, 12336,
5257, 16028, 16029	19610, 20217,	12349, 12361,
<code>\@testpach</code> 352, 1377,	20236, 20259,	12399, 12409,
1422, 21766, 23953	20340, 20350,	12419, 12445,
<code>\@texfileextension</code>	20990, 21009,	12458, 12470,
. . . . . 4807, 4810	21032, 21113, 21123	12665, 12677,
<code>\@textbottom</code> . . 12829,	<code>\@thefnmark</code> . . . 44, 58,	12689, 12726,
14194, 19368,	74, 247, 261, 276,	12740, 12754,
19375, 20108,	454, 457, 744, 806,	13007, 13010,
20115, 20881, 20888	808, 996, 1060,	13531, 13536,
<code>\@textsuperscript</code> .	1246, 1308, 1310,	13540, 13545,
. . . . . 454, 457,	2151, 2168, 2185,	13567, 13584,
744, 806, 808, 996,	2201, 2217, 2233,	13600, 13628,
1060, 1246, 1308,	2261, 2267, 2287,	13642, 13656,
1310, 4056, 4059,	2293, 2313, 2319,	13699, 13704,
7610, 7612, 8832,	4056, 4059, 4299,	13714, 13719,
9009, 9148, 9151,	4307, 4315, 7610,	13755, 13759,
10907, 10910,	7612, 7646, 7664,	13761, 13767,
11004, 11007,	7682, 7708, 7714,	13771, 13773,
13007, 13010,	7737, 7743, 7766,	13779, 13783,
16842, 18380,	7772, 8588, 8595,	13785, 14205,
18442, 18444,	8602, 8832, 9009,	14712, 14723,
18519, 18583,	9148, 9151, 10907,	14734, 14745,
18585, 18779,	10910, 11004,	14863, 14901,
18786, 18822,	11007, 11242,	14934, 14965,
18829, 19008, 19011	11256, 11270,	14996, 15059,
<code>\@texttop</code> . . 12825, 14190	11282, 11293,	15362, 18380,
<code>\@tfor</code> . . . . . 4344, 13071	11304, 11345,	18442, 18444,
<code>\@thanks</code> . . . 433, 441,	11349, 11351,	18519, 18583,
469, 477, 775, 781,	11357, 11361,	18585, 18779,
820, 826, 1027,	11363, 11369,	18786, 18822,
1033, 1072, 1078,	11373, 11375,	18829, 19008, 19011
1277, 1283, 1322,	11533, 11543,	<code>\@thefoot</code> . . . . 13248,
1328, 4061, 4067,	11553, 11579,	13251, 13255,
8863, 8869, 9040,	11592, 11604,	24340, 24346,
9046, 9127, 9135,	11642, 11651,	24354, 24357, 24392
9163, 9171, 10888,	11660, 11685,	<code>\@thehead</code> . . . . 13247,
10894, 10922,	11697, 11708,	13250, 13254,
10928, 10983,	11745, 11755,	24340, 24346,
10991, 11019,	11765, 11791,	24353, 24356, 24376
11027, 12988,	11804, 11816,	<code>\@themargin</code> . . . 13304,
12994, 13022,	11854, 11864,	14360, 14362,
13028, 13694,	11874, 11900,	14367, 14369,
13708, 13711,	11913, 11925,	14373, 14375,



24342, 24344, 24348, 24350, 24369	20961, 20963, 21130	\@todonotes@text ..
\@thm ..... 17627, 17648	\@titlepageiscoverpagefalse .. 23344, 23346,	23355, 23357,
\@thmcountersep 350, 23764	. 19399, 20139, 20912	23380, 23382,
\@threecol@footgroupv@r	\@tocextra .....	23395, 23401, 23404
..... 11628	.. 21973, 21974,	\@todonotes@textwidth
\@threecolLTRfootfmt	21978, 21980, 21983	..... 23378
. 11653, 11672, 11699	\@tocline .. 2, 197, 15368	\@toodeep ... 2348, 23771
\@threecolLTRfootnotetext	\@tocpagenum 15, 210, 15381	\@topnum ... 111, 314,
..... 11623, 11646	\@tocrmarg ... 17226,	466, 817, 1069,
\@threecolRTLfootfmt	17238, 17250,	1319, 8221, 9160,
. 11662, 11675, 11710	18222, 22017,	10919, 11016,
\@threecolRTLfootnotetext	22048, 22071,	13019, 15390,
..... 11624, 11655	22088, 22105,	16855, 18453,
\@threecolfootfmt .	22122, 22139,	18594, 18838, 19020
. 11644, 11669, 11687	22156, 22174,	\@topsep ... 17641, 17661
\@threecolfootnotetext	22193, 22213,	\@topsepadd .....
..... 11622, 11637	22248, 22299,	. 4187, 17642, 17662
\@title ..... 320,	22842, 22849,	\@totalleftmargin .
423, 444, 480, 494,	23155, 23272, 23970	Down .. 13944, 13948,
753, 755, 783, 828,	\@todonotes@MissingFigure	13951, 13960,
841, 1005, 1007,	..... 23434	15542, 15543,
1035, 1080, 1093,	\@todonotes@MissingFigureText	15564, 16189,
1255, 1257, 1285,	..... 23411	17644, 17645,
1330, 1344, 1355,	\@todonotes@MissingFigureUp	17664, 17665,
4070, 4459, 4520,	..... 23433	18196, 23790,
8143, 8228, 8841,	\@todonotes@author	23792, 23798,
8843, 8871, 9018,	..... 23344,	23800, 23804,
9020, 9048, 9117,	23355, 23380, 23398	23806, 23810,
9138, 9174, 9188,	\@todonotes@currentfigcolor	23812, 23814,
10254, 10878,	..... 23415	23849, 23851,
10897, 10931,	\@todonotes@currentfigheight	23852, 23853,
10943, 10973,	..... 23416	23858, 23860,
10994, 11030,	\@todonotes@currentfigwidth	23861, 23862,
11044, 12978,	..... 23416,	23867, 23869,
12997, 13031,	23418, 23428, 23431	23870, 23871,
13043, 16836,	\@todonotes@drawInlineNote	23876, 23878,
18389, 18391,	..... 23339	23879, 23880, 24312
18419, 18464,	\@todonotes@drawLineToLeftMargin	\@traditionalpoem .
18477, 18528,	..... 23367, 23370	..... 8516, 8608
18530, 18560,	\@todonotes@drawLineToRightMargin	\@trivlist ... 17638,
18607, 18623,	..... 23367, 23370	17658, 19310,
18634, 18790,	\@todonotes@drawMarginNote	20049, 20822, 23783
18811, 18852,	. 23366, 23369, 23373	\@twocol@footgroupv@r
18866, 18977,	\@todonotes@drawMarginNoteWithLine	..... 11519
18998, 19034,	..... 23361	\@twocolLTRfootfmt
19048, 19459,	\@todonotes@ifdisabled	. 11545, 11566, 11594
19613, 20199,	..... 23440	\@twocolLTRfootnotetext
20353, 20972, 21126	\@todonotes@sizecommand	..... 11514, 11538
\@titlecolour . 4489, 4506	..... 23344,	\@twocolRTLfootfmt
\@titlehead .....	23346, 23353,	. 11555, 11569, 11606
.. 19448, 19450,	23355, 23357,	\@twocolRTLfootnotetext
19617, 20188,	23380, 23382,	..... 11515, 11548
20190, 20357,	23394, 23397,	
	23398, 23400, 23403	



\@twocolfootfmt ...	11161, 11210,	8463, 8474, 8680,
. 11535, 11563, 11581	12944, 13175,	8694, 14709, 21712
\@twocolfootnotetext	13478, 13480,	\@xipt ..... 7984
..... 11513, 11528	13922, 14010,	\@xipt ..... 7983
\@twosidefalse .... 6736	14057, 15359,	\@xivpt ..... 303, 7985
\@twosidetrue ..... 6731	15430, 16048,	\@xmakefntext .. 807,
\@typeset@protect .	16099, 16211,	1309, 18443, 18584
..... 4215,	17056, 17158,	\@xnewline ... 19729,
4221, 4227, 4242	17301, 17312,	19736, 20490,
\@undeclaredcolor .	17344, 17395,	20497, 21255, 21262
..... 9451,	18332, 18755,	\@xp ..... 121, 308,
9459, 23531, 23532	18911, 19093,	333, 334, 9352, 15400
\@undefined .....	19370, 20110,	\@xpt ..... 6752
. 4273, 16033, 16956	20883, 21639,	\@xstartcol ..... 14097
\@undottedtocline 17223	21678, 23936,	\@xthm ..... 17646, 17666
\@unexpandable@protect	24054, 24103, 24303	\@xtitle ..... 320
..... 5290, 6633	\@x ..... 8625, 8626	\@xxpt ..... 7986
\@unrecurse . 21663, 21666	\@x@sf 7619, 7624, 7630, 7633	\@xxxii ..... 4370
\@uppertitleback ..	\@xLTRfootnote ....	\@xympar .....
.. 19483, 19490,	.... 4264, 4386,	7306, 7310, 7350,
19499, 19534,	8466, 8477, 8683,	7354, 7394, 7398,
19620, 20223,	8697, 13539, 13542	24196, 24200,
20230, 20239,	\@xLTRfootnotenext	24240, 24244, 24307
20274, 20360,	..... 4263,	\@yargdef ..... 5259
20996, 21003,	4385, 8465, 8476,	\@ympar ..... 24304
21012, 21047, 21133	8682, 8696, 13698,	\@ythm ..... 17646, 17666
\@urlbordercolor ..	13701, 14731, 21713	\[ ..... 8633, 13190
..... 15161, 15163	\@xRTLfootnote ....	\ \ .. 122, 404, 751, 796,
\@urlcolor ..... 15175	.... 4266, 4388,	1003, 1048, 1253,
\@viipt ..... 6761,	8468, 8479, 8685,	1298, 2065, 2798,
7981, 17682, 17695	8699, 13530, 13533	4270, 4567, 4573,
\@vipt 7981, 17682, 17695	\@xRTLfootnotenext	4720, 5751, 5767,
\@viper 9687, 9689, 9691,	..... 4265,	5771, 6000, 6002,
9746, 9748, 9750,	4387, 8467, 8478,	6003, 6004, 6012,
9764, 9771, 10015,	8684, 8698, 13713,	6017, 6018, 6020,
10066, 17183,	13716, 14720, 21714	7066, 7067, 7068,
17198, 17200, 17205	\@xaddress ..... 321	7070, 8030, 8399,
\@viperoutput . 9693, 9752	\@xauthor ..... 321	8537, 8839, 9016,
\@vipt ..... 7982	\@xcentercr ... 19738,	10142, 10143,
\@vpt ..... 7982	19745, 20499,	10146, 10162,
\@whilenum ..... 15552	20506, 21264, 21271	10249, 10254,
\@whiles w . 9685, 9744,	\@xcolor@ .. 23539, 23582	10261, 10271,
13146, 13186,	\@xcurraddr ..... 322	10275, 11141,
13270, 14021,	\@xemail ..... 322	11145, 11154,
14074, 17074,	\@xepersian@pdfcustomproperties	14564, 14567,
17171, 24071, 24114	..... 3891	14580, 14583,
\@wholewidth .....	\@xfloat ..... 4319	14683, 15104,
. 13073, 13075, 13093	\@xfootnote .... 4262,	15119, 15138,
\@width 31, 235, 390, 540,	4384, 8464, 8475,	15401, 15421,
725, 960, 1205,	8681, 8695, 15057	15425, 15615,
1495, 8804, 8957,	\@xfootnotemark .. 14742	15616, 15622,
9233, 9438, 9660,	\@xfootnotenext ...	15623, 16026,
9725, 9957, 9976,	.... 4261, 4383,	16194, 17756,
10284, 10862,		17768, 18137,



18138, 18150,	\add@strip . . . . . 17207	4553, 6838, 6841,
18151, 18163,	\addcontentsline 553,	6842, 6845, 7996,
18164, 18176,	555, 4564, 7045,	10240, 10241,
18387, 18432,	10818, 10820,	10242, 10653,
18526, 18573,	15682, 15687,	14417, 14418,
19731, 19740,	16968, 21956,	15510, 15512,
20492, 20501,	21963, 21980, 23411	15514, 15515,
21257, 21266,	\AddExtraParaSkip .	15533, 15535,
21630, 21645,	. 12524, 12527, 12652	15536, 15538,
21661, 21662,	\addfontfeature 4487,	15539, 15541,
21838, 21867,	4488, 4489, 4490,	15542, 15543,
23377, 23384,	4491, 4492, 4494, 4495	15558, 15559,
23746, 23883,	\addpenalty . . . 5, 200,	19336, 19343,
23926, 23942, 23952	509, 526, 661, 679,	19344, 19347,
\{ . . . . 4132, 16331, 16375	686, 888, 905, 923,	19349, 20075,
\} . . . . 4133, 16331, 23751	1144, 1162, 1170,	20083, 20084,
\_ . . . 3670, 3955, 7512,	8739, 8755, 8762,	20087, 20089,
7516, 7531, 7535,	8916, 8932, 8939,	20848, 20856,
7550, 7554, 7582,	9203, 9218, 10790,	20857, 20860,
7586, 13814, 13816	10804, 11059,	20862, 21899,
\] . . . . . 8634, 13200	12894, 12909,	21900, 22626,
\^ . . . . . 3900,	15371, 18291,	22636, 22640, 22644
8416, 8417, 8419, 8420	18307, 18314,	\addvspace . . . . . 5,
\` . . . 13942, 16186, 18192	18663, 18679,	200, 510, 527, 662,
\  . . . 13821, 13822, 13937	18686, 18879,	680, 687, 889, 906,
	18893, 19063,	924, 1145, 1163,
<b>Numbers</b>	19078, 21880,	1171, 8024, 8081,
\0 . . . . . 3854	21882, 22010,	8740, 8756, 8917,
\1 . . . 16273, 16324, 16376	22012, 22045,	8933, 9204, 10791,
\9 . . . . . 3854	22067, 22431,	10805, 11060,
	22434, 22438,	12895, 15371,
<b>A</b>	22543, 22546, 22550	18292, 18308,
\abovecaptionskip .	\address . . . . . 321, 4521	18664, 18680,
. . . . . 15651,	\addresscolour . . . .	18880, 19064,
16895, 16945,	. . . 4490, 10094,	22014, 22068,
19780, 19784,	10192, 10198,	22432, 22439,
19880, 19889,	10204, 10210, 10216	22544, 22547,
20541, 20545,	\addressfont . . . 4499,	22551, 22581, 23089
20642, 20651,	4507, 4618, 10132,	\adjmc@inner . . . . . 134
21306, 21310,	10160, 10224, 10258	\adjmc@outer . . . . . 136
21407, 21416, 24408	\addresssymbol . . . .	\adjmc@page@sofar@orig
\abovedisplayshortskip	. . . 4481, 10162, 10261	. . . . . 164
. . . 6754, 6763, 7973	\adresstyle . . . . . 4507	\adjmult@cols . . . . . 163
\abovedisplayskip .	\addtocontents . . . 22296	\adjmulticols . . . . . 132
6753, 6756, 6762,	\addtocounter . . 2673,	\adl@act@classz . . . 1498
6769, 6803, 7972, 7979	2674, 15544, 15545	\adl@act@CT@setup .
\abstractname 629, 635,	\addtoheadtemplate 3560	. . . . . 1456, 1463
638, 936, 942, 944,	\AddToHook 5573, 5614, 5654	\adl@activate . 1373, 1456
1188, 1194, 1197,	\addtolength . . . . .	\adl@argarraydashrule
8780, 8968, 18259,	. . . . 2928, 2932,	. . . . . 1392, 1430
18265, 18268,	2935, 4441, 4442,	\adl@array . . . 1370, 1375
18709, 18715, 18718	4443, 4444, 4445,	\adl@arraydashrule
\Acrobatmenu . . . . . 15180	4446, 4544, 4545,	. . . . . 1391, 1429
\active . . . . . 8416,	4547, 4549, 4550,	\adl@arrayinit . . . . 1372
8417, 8419, 8420		





23162,	23187,	\algocf@float . . . . .	24475	16833,	17740,
23198,	23277,	\algocf@makecaption	188	18398,	18424,
23300,	23454,	\algocf@within . . . . .		18427,	18469,
23456,	23466,	. . . . .	166, 168,	18537,	18565,
23485,	23486,	24477, 24478, 24479		18568,	18612,
23515,	23526,	\alignL . . . . .	9384	18636,	18815,
23527,	23773,	\alignR . . . . .	9391	18856,	19002,
23786,	23787,	\allowbreak . . . . .		19038,	19382,
23790,	23792,	. . . . .	10298, 10319,	19634,	20122,
23798,	23800,	11565,	11568,	20374,	20895, 21147
23804,	23806,	11571,	11671,	\andify . . . . .	116, 15395
23810,	23812,	11674,	11677,	\andname . . . . .	796, 1048,
23910,	23911,	11777,	11780,	1298,	18432, 18573
23975,	24001,	11783,	11886,	\andnext . . . . .	16834
24276,	24277,	11889,	11892,	\AppendToTokenList	5967
24284,	24285,	11995,	11998,	\arabic . . . . .	19,
24286, 24287, 24312		12001,	12104,	20, 21, 22, 86, 214,	
\afterassignment . .		12107,	12110,	215, 216, 217, 289,	
3672, 3674, 3957,		12213,	12216,	329, 13226, 13232,	
3959, 5291, 6100,		12219,	12322,	15328,	15385,
7484, 21736, 21737		12325,	12328,	15386,	15387,
\aftergroup . . . . .	4169,	12431, 12434, 12437		15388, 22238, 24475	
4179, 6303, 6305,		\Alph . . . . .	16877	\array . . . . .	407, 23950
6315, 6317, 6327,		\alt . . . . .	2466	\arraycolsep . . . . .	407
6329, 6347, 6349,		\AM@CheckAtEnd . . . . .	17776	\arraylinesep . . . . .	21669
6358, 6360, 6369,		\AM@ClearShipoutPicture		\arrayrulecolor . . . . .	1467
6371, 7468, 7483,		. . . . .	17778	\arrayrulewidth . . . . .	21686
9449, 9451, 9458,		\AM@currentdocname		\arraystretch 388, 389,	
9464, 9483, 9775,		. . . . .	17741, 17747	4163, 4174, 16046,	
9781, 9784, 13291,		\AM@findfile . . . . .	17745	16047,	21637,
13293,	17987,	\AM@output . . . . .	17774	21638,	21673,
17988,	17991,	\AM@pagecount . . . . .	17743	23759, 23934, 23935	
17996,	17997,	\AM@pageref . . . . .	17758, 17761	\aslice . . . . .	17911, 17912,
18001,	18006,	\AM@pagetemp . . . . .		17914,	17916,
18007,	18011,	. . . . .	17751, 17756,	17917,	17919,
18015,	18019,	17757,	17760,	17932, 17933, 17935	
18023,	19749,	17768, 17769, 17773		\At@ViperColsBreak	
19751,	19754,	\AM@readlist . . . . .	17773	. . . . .	9789, 9792
20510,	20512,	\AM@split@options	17737	\AtBeginCaption . . . . .	15693
20515,	21275,	\AM@temp . . . . .	17738, 17739	\AtBeginDocument 1502,	
21277,	21280,	\AM@threadname . . . . .		2052, 2680, 2913,	
21873,	23080,	. . . . .	17736, 17746, 17747	3064, 3134, 3182,	
23520,	23529,	\AM@xrprefix . . . . .		3302, 3390, 3485,	
23531,	23568,	. . . . .	17754, 17758, 17761	3550, 3564, 3663,	
23572,	23625,	\and . . . . .	448, 484, 762, 788,	3810, 4456, 4516,	
23636,	23637,	791, 833, 1014,		4613, 5608, 6698,	
23640,	23645,	1040, 1043, 1085,		6847, 7074, 7208,	
23646,	23650,	1264, 1290, 1293,		7213, 7266, 8077,	
23655,	23656,	1335, 1357, 4074,		8277, 8342, 10171,	
23660,	23665,	8850, 8876, 9027,		10285,	10306,
23669,	23674,	9053, 9142, 9178,		10327,	10757,
24322, 24332, 24333		10901,	10935,	13607,	14209,
\ALG@floatstyle . . .		10998,	11034,	14681,	15701,
. . . . .	7269, 7270, 7271	13001,	13035,		



15708, 15791, 18208, 21652, 23227	\BackrefFootnoteTag .. 13729, 13730, 13735, 13736, 13755, 13759, 13761, 13767, 13771, 13773, 13779, 13783, 13785	11300, 11529, 11539, 11549, 11575, 11587, 11600, 11611, 11616, 11638, 11647, 11656, 11681, 11692, 11704, 11714, 11719, 11741, 11751, 11761, 11787, 11799, 11812, 11823, 11828, 11850, 11860, 11870, 11896, 11908, 11921, 11932, 11937, 11959, 11969, 11979, 12005, 12017, 12030, 12041, 12046, 12068, 12078, 12088, 12114, 12126, 12139, 12150, 12155, 12177, 12187, 12197, 12223, 12235, 12248, 12259, 12264, 12286, 12296, 12306, 12332, 12344, 12357, 12368, 12373, 12395, 12405, 12415, 12441, 12453, 12466, 12477, 12482, 12564, 12626, 12661, 12673, 12685, 12716, 12735, 12749, 12767, 12777, 12786, 12795
\AtBeginPackage .. 16938		\BCmd ..... 4168
\AtEndDocument . 3882, 4620, 5634, 6550, 8561, 8618, 16316, 16367, 16385, 24022	\badness ..... 9815, 9819, 9847, 9851, 9853, 9858, 9862, 9866, 9930, 9951	\BDefaboveskip .... ... 4183, 4198, 4201
\AtEndOfClass ..... 4455	\baselineskip .. 402, 724, 726, 730, 732, 1204, 1206, 1210, 1212, 2571, 2586, 2601, 2629, 2631, 2659, 2665, 2808, 5231, 6780, 6782, 6785, 6787, 6789, 6792, 6947, 7577, 7644, 7662, 7680, 7797, 7806, 7815, 7896, 7903, 7910, 7917, 7924, 8024, 8081, 8424, 8485, 8549, 8555, 8803, 8805, 8809, 8811, 8956, 8958, 8962, 8964, 9599, 9600, 9617, 9621, 10028, 13301, 13832, 15520, 15528, 16062, 16072, 16192, 16209, 17866, 17869, 17883, 17907, 17911, 17916, 17920, 17932, 17943, 17970, 18203, 18331, 18333, 18337, 18339, 18754, 18756, 18760, 18762, 19412, 20152, 20925, 21648, 21687, 23454, 23462, 23466, 23946, 24366, 24389	\BDefbelowskip .... ... 4187, 4199, 4202
\AtPageLowerLeft . 10565		\BDefinlineskip ... ... 4192, 4200, 4203
\AtPageUpperLeft .. . 10565, 10589, 10619		\beamer@ttmpop@caption@default ..... 2538
\AtTextUpperLeft .. ..... 10569, 10595	\baselinestretch .. .... 4471, 7640, 7658, 7676, 11236, 11250, 11264, 11278, 11289,	\beamer@ttmpop@footline@progressbar ..... 2921
\author ..... 321, 446, 482, 786, 831, 1038, 1083, 1288, 1333, 4072, 8127, 8159, 8874, 9051, 9140, 9176, 10899, 10933, 10996, 11032, 12999, 13033, 18422, 18467, 18563, 18610, 18813, 18854, 19000, 19036, 19623, 20363, 21136		\beamer@ttmpop@footnote@default
\auto@footnoterule ..... 13494, 13505		
\autodot ..... 19638, 20377, 21150, 23290		
\autofootnoterule . ..... 3765, 10278, 11204, 13503, 14201, 24426		
<b>B</b>		
\backmatter ..... .. 8331, 9273, 11106		
\Backref@HyperLTRFootnote ..... 13731, 13738		
\Backref@HyperRTLFootnote ..... 13737, 13741		
\Backref@HyperSymbol ..... 13739, 13742, 13745, 13748		
\Backref@OptHyperLTRFootnote ..... 13744		
\Backref@OptHyperRTLFootnote ..... 13747		
\Backref@OptLTRHyperFootnote ..... 13731		
\Backref@OptRTLHyperFootnote ..... 13737		



..... 2515	\beamer@footarg ...	\beamer@putright ..
\beamer@biblabeltemplate	.... 2253, 2254,	... 2736, 2748, 2760
..... 2392, 2401	2255, 2259, 2266,	\beamer@rightmargin
\beamer@boxsize ...	2279, 2280, 2281,	.... 1921, 1942,
... 2428, 2432, 2434	2285, 2292, 2305,	2013, 2114, 2119,
\beamer@colalign .. 2098	2306, 2307, 2311, 2318	3114, 3122, 3262, 3265
\beamer@colbox@color	\beamer@footins ...	\beamer@rightsidebar
... 1859, 1898, 1911	.... 2141, 2146,	..... 1943
\beamer@colbox@colsep	2158, 2163, 2175, 2180	\beamer@RTLfootnotetext
..... 1876,	\beamer@footnotetext	... 2274, 2288, 2295
1877, 1878, 1879, 1887	... 2248, 2262, 2269	\beamer@section@min@dim
\beamer@colbox@colseps	\beamer@framefootnotetext	..... 2437
.... 1881, 1888,	..... 2140, 2239	\beamer@shortinstitute
1912, 1914, 1916, 1918	\beamer@frameLTRfootnotetext	..... 3000
\beamer@colbox@dp . 1893	..... 2174, 2241	\beamer@sidebarformat
\beamer@colbox@ht . 1892	\beamer@frameRTLfootnotetext	..... 3167
\beamer@colbox@ls . 1872	..... 2157, 2240	\beamer@sidebarside
\beamer@colbox@rs . 1874	\beamer@ftelleft ... 2909	..... 3141,
\beamer@colbox@sep	\beamer@fterright .. 2911	3183, 3186, 3208
..... 1873,	\beamer@gobbleoptionalinsp	\beamer@sidebarwidth
1875, 1883, 1885	..... 2466	3113, 3145, 3150,
\beamer@colbox@shadow	\beamer@headheight	3151, 3153, 3156,
..... 1897	..... 3106,	3157, 3169, 3171,
\beamer@colbox@wd .	3114, 3117, 3118,	3180, 3183, 3188, 3206
... 1870, 1891, 1900	3150, 3154, 3157, 3161	\beamer@tempbox 1860,
\beamer@colclose 2094,	\beamer@kvorig ....	1891, 1892, 1893,
2095, 2126, 2127	.... 2251, 2257,	1901, 1904, 1905,
\beamer@colentrycode	2277, 2283, 2303, 2309	1907, 1910, 1915,
... 2104, 2107, 2125	\beamer@leftmargin	1920, 1921, 1923,
\beamer@colexitcode	..... 1921,	1971, 1972, 1973,
... 2105, 2117, 2127	1934, 2110, 2113,	1974, 1979, 1982,
\beamer@colheadskip 2099	3114, 3120, 3261, 3264	1993, 1998, 1999,
\beamer@colmode ... 2093	\beamer@leftsidebar 1935	2007, 2008, 2009,
\beamer@columncom . 2093	\beamer@lefttext ..	2010, 2013, 2022,
\beamer@computepref	..... 3141, 3208	2027, 2028, 2036,
..... 2328, 2350	\beamer@link ..... 2438	2037, 2038, 2039,
\beamer@cramped ...	\beamer@LTRfootnotetext	2075, 2076, 2077,
... 2341, 2367, 2382	... 2300, 2314, 2321	2078, 2083, 2087,
\beamer@defaultospec	\beamer@minislide .	2088, 2089, 2090,
..... 2347	..... 2451, 2456	3267, 3278, 3295,
\beamer@descdefault	\beamer@minislidehighlight	3515, 3516, 3534, 3535
..... 2373, 2381	..... 2444	\beamer@tempdim ...
\beamer@descriptionitem	\beamer@minisliderowhighlight	1934, 1935, 1937,
..... 2381	..... 2446	1939, 1942, 1943,
\beamer@dogeometryfalse	\beamer@mpfn ..... 1945, 1947, 1972,	1973, 1976, 1977,
..... 1930	.... 2249, 2260,	2007, 2008, 2036,
\beamer@enum@ ..... 2327	2266, 2275, 2286,	2037, 2076, 2077,
\beamer@enumtempl . 2336	2292, 2301, 2312, 2318	2080, 2081, 2112,
\beamer@firstlineitemizeunskip	\beamer@next ..... 2113, 2114, 2115,	2427, 2428, 2429,
..... 1750,	.... 2260, 2264,	2430, 2431, 2432,
2343, 2369, 2384	2271, 2286, 2290,	2433, 2434, 2435,
\beamer@focus@totalframenumber	2297, 2312, 2316, 2323	2436, 2437, 3188,
... 2930, 2955, 2975	\beamer@putleft 2702,	
	2735, 2747, 2759	



3189, 3195, 3203,	2850, 2864, 2866,	10467, 10470,
3263, 3264, 3265,	2868, 2941, 2967,	10474, 10476,
3278, 3279, 3280, 3289	2999, 3002, 3005,	10480, 10482,
\beamer@themerounded@shadow	3026, 3028, 3033,	10486, 10489,
..... 2904	3035, 3052, 3053,	10492, 10496,
\beamer@thempfn ...	3074, 3076, 3080,	10498, 10503,
.... 2250, 2261,	3083, 3086, 3092,	10505, 10676,
2267, 2276, 2287,	3140, 3169, 3171,	10742, 10869,
2293, 2302, 2313, 2319	3223, 3225, 3230,	10877, 10882,
\beamer@typesetheadorfoot	3232, 3267, 3280,	10941, 10947,
... 2041, 2046, 2056	3281, 3287, 3316,	10962, 10972,
\beamer@usesphere .	3317, 3318, 3335,	10977, 11040,
... 1689, 1704, 1711	3340, 3343, 3356,	11048, 11140,
\beamer@vboxoffset 2427	3362, 3364, 3378,	12969, 12977,
\beamer@vmode . 1846, 1884	3379, 3380, 3404,	12982, 13041,
\beamer@xkvorig ...	3405, 3406, 3416,	13047, 13193,
.... 2252, 2258,	3419, 3425, 3428,	14432, 14437,
2278, 2284, 2304, 2310	3435, 3438, 3452,	14455, 14558,
\beamer@xpos .....	3457, 3459, 3472,	14560, 14574,
... 2417, 2422, 2433	3473, 3474, 3495,	14576, 15420,
\beamer@ypos .....	3498, 3501, 3507,	16983, 17679,
... 2423, 2424, 2429	3510, 3526, 3529,	18372, 18385,
\beamer@ypos@offset	3544, 4162, 4164,	18396, 18475,
..... 2420, 2424	4173, 4175, 4178,	18481, 18509,
\beamerboxesrounded 1749	4571, 4575, 4577,	18524, 18535,
\beamercolorbox ... 2607	4579, 4581, 4585,	18619, 18627,
\beameritemnestingprefix	4593, 4596, 4631,	18636, 18638,
.... 1660, 1661,	4744, 4748, 4768,	18639, 18769,
2328, 2329, 2331,	4772, 4799, 5671,	18789, 18794,
2332, 2339, 2340,	5672, 5679, 5705,	18870, 18966,
2350, 2351, 2353,	6407, 6853, 6854,	18976, 18981,
2354, 2357, 2361, 2362	6867, 6870, 6944,	19044, 19052,
\beameroriginal ... 2466	6945, 6951, 6952,	19385, 19389,
\beamertemplatedotitem	6959, 6960, 6985,	19449, 19454,
..... 3562	6986, 7023, 7026,	19466, 19489,
\begin .. 412, 422, 427,	7029, 7032, 7036,	19493, 19662,
490, 498, 736, 749,	7037, 7221, 7222,	20125, 20129,
760, 839, 845, 988,	7840, 7896, 7903,	20189, 20194,
1001, 1012, 1091,	7910, 7917, 7924,	20206, 20229,
1097, 1238, 1251,	7937, 7945, 8067,	20233, 20423,
1262, 1342, 1348,	8072, 8205, 8252,	20898, 20902,
1357, 1359, 1360,	8275, 8650, 8824,	20962, 20967,
1531, 1688, 1724,	8837, 8848, 9001,	20979, 21002,
1733, 1742, 1769,	9014, 9025, 9069,	21006, 21188,
1791, 1817, 1829,	9081, 9106, 9116,	21918, 23341,
1896, 2096, 2098,	9121, 9184, 9192,	23348, 23351,
2102, 2562, 2570,	9502, 9512, 9525,	23362, 23375,
2577, 2585, 2592,	9535, 9548, 9558,	23378, 23385,
2600, 2624, 2630,	9571, 9581, 10146,	23391, 23414,
2637, 2654, 2660,	10252, 10257,	23418, 23424, 23431
2666, 2706, 2713,	10275, 10444,	\begin@bidi@stack .
2719, 2725, 2794,	10447, 10451,	.... 4738, 4748,
2815, 2830, 2832,	10453, 10458,	4749, 4762, 4772, 4773
2837, 2839, 2844,	10460, 10464,	\begingroup ... 6, 119,



201, 302, 315, 379,	17071,	17168,	\beginR . . . . . 174,
391, 452, 512, 529,	17378,	17382,	336, 348, 379, 404,
663, 689, 803, 891,	17386,	17734,	1472, 3077, 4267,
907, 1055, 1146,	17782,	18079,	7328, 7416, 9341,
1173, 1305, 1486,	18293,	18317,	9415, 9444, 9449,
1838, 1839, 1970,	18439,	18580,	9458, 9464, 9483,
2074, 2265, 2291,	18665,	18689,	10563, 11498,
2317, 4054, 4297,	18819,	18881,	11502, 13222,
4305, 4313, 4692,	18896,	19006,	14213, 14218,
4720, 4739, 4763,	19066,	19081,	14275, 14314,
4982, 5007, 5357,	19402,	19548,	14321, 14690,
5403, 5410, 5440,	19661,	19720,	14698, 15080,
5456, 5472, 5515,	20142,	20288,	15116, 15148,
5523, 5556, 5606,	20422,	20481,	15177, 15203,
5734, 5942, 5944,	20915,	21061,	15209, 15216,
5974, 5984, 5994,	21187,	21246,	15413, 15654,
6124, 6197, 6221,	21735,	21852,	16066, 16127,
6236, 6302, 6313,	21876,	22015,	16130, 16166,
6325, 6346, 6356,	22442,	22554,	16257, 16265,
6367, 6517, 6631,	23076,	23193,	16456, 16782,
6643, 6678, 7047,	23533,	23576,	16946, 16948,
7466, 7712, 7741,	23625,	23737,	17856, 17981,
7770, 8144, 8161,	24068, 24111, 24322		17988, 17993,
8177, 8189, 8222,	\beginL . . . 176, 1471,		18075, 18076,
8526, 8586, 8593,	1868, 2736, 2748,		18077, 19245,
8600, 8630, 8741,	2760, 3707, 3984,		19255, 19266,
8765, 8918, 8942,	4618, 7328, 7372,		19273, 19765,
9146, 9206, 9221,	9414, 9443, 9449,		20526, 21291,
9310, 9429, 9483,	9451, 9483, 11538,		21627, 21649,
9492, 9682, 9741,	11590, 11646,		21688, 21810,
10570, 10596,	11695, 11750,		23525, 23529,
10793, 10806,	11802, 11859,		23568, 23572,
10905, 11002,	11911, 11968,		23625, 23630,
11061, 12563,	12020, 12077,		23637, 23642,
12625, 12896,	12129, 12186,		23893, 23896,
12912, 13005,	12238, 12295,		23899, 23916,
13145, 13183,	12347, 12404,		23923, 23948,
13267, 13283,	12456, 13086,		24262, 24296,
13534, 13543,	13197, 13212,		24313, 24315,
13702, 13717,	13379, 14211,		24376, 24392,
13791, 13843,	14217, 14226,		24411, 24414, 24422
13876, 14018,	14246, 14262,		\belowcaptionskip .
14071, 14245,	14272, 15065,		. . . . . 15664,
14261, 14431,	15654, 17783,		16936, 16953,
14710, 14721,	17846, 17981,		19778, 19786,
14732, 14743,	17987, 18003,		19878, 19891,
14841, 14861,	18079, 19251,		20539, 20547,
14899, 14932,	19262, 19269,		20640, 20653,
14963, 14994,	19279, 21803,		21304, 21312,
15228, 15243,	23524, 23529,		21405, 21418, 24416
15372, 15398,	23531, 23625,		\belowdisplayshortskip
15467, 15497,	23630, 23636,		. . . 6755, 6764, 7974
15685, 16050,	23652, 24218,		\belowdisplayskip .
16840, 16970,	24296, 24376, 24392		. . . . . 6756,



6769, 6804, 7979	21649, 21680,	\bidi@@convert@dimen@t@pt
\bf . . . . 3990, 17852, 17854	21684, 21688,	. . . . . 4920
\bfseries . . . . . 25,	23185, 23638,	\bidi@@convert@dimen@t@unit
303, 516, 532, 561,	23644, 23648,	. . . . . 4917
564, 668, 692, 894,	23654, 23658,	\bidi@@diagbox@double@ii
912, 1151, 1176,	23664, 23667,	. . . . . 10445, 10449
3715, 4118, 4588,	23673, 23737,	\bidi@@diagbox@double@iii
8204, 8746, 8768,	23743, 23923,	. . . . . 10448, 10456
8923, 8945, 9070,	23932, 23940, 23948	\bidi@@diagbox@triple@setbox@NW@tabular@i@ii
9082, 9210, 9224,	\BHFN@OldLTRFootnote	. 10465, 10468, 10472
9256, 9262, 9270,	. 13724, 13739, 13745	\bidi@@diagbox@triple@setbox@NW@tabular@iii
10796, 10811,	\BHFN@OldRTLFootnote	. . . . . 10471, 10478
10826, 10829,	. 13725, 13742, 13748	\bidi@@diagbox@triple@setbox@SE@tabular@i
10838, 11065,	\bib@after@hook 19706,	. . . . . 10487, 10494
11088, 11094,	19708, 20467,	\bidi@@diagbox@triple@setbox@SE@tabular@ii@i
11103, 12901,	20469, 21232, 21234	. 10490, 10493, 10501
12915, 12926,	\bib@before@hook . .	\bidi@@end . . . 5662, 5666
12931, 12939,	. . . . . 19656,	\bidi@@footnotetext@font
15367, 18298,	19707, 20417,	. . . . . 38, 241,
18320, 18670,	20468, 21182, 21233	2148, 2197, 7642,
18692, 18866,	\bib@beginhook 19649,	13554, 13561, 13652
18885, 18899,	19655, 20410,	\bidi@@loadwithoptions
19070, 19084,	20416, 21175, 21181	. . . . . 6216,
19115, 19120,	\bib@endhook . . . . .	6223, 6226, 6230
19128, 22446,	. 19710, 20471, 21236	\bidi@@LTRfootnotetext@font
22559, 22990,	\bib@heading . . . . .	. . . . . 68, 270,
22994, 22999,	. 19651, 20415, 21180	2182, 2229, 7660,
23028, 23032, 23037	\bibcleanup . . . . . 17586	13555, 13594, 13638
\bgroup . . . . . 171,	\bibentry . . . . . 7514,	\bidi@@null . . . 5834, 5835
172, 379, 394, 399,	7516, 7533, 7535,	\bidi@@onefilewithoptions
404, 637, 1196,	7552, 7554, 7584, 7586	. . . 6238, 6241, 6244
1472, 1751, 1829,	\bibfont . . . . . 17565	\bidi@@patchcmd 5405, 5407
1860, 1869, 2104,	\bibindent . . . 4622, 4623	\bidi@@RTLfootnotetext@font
2108, 2115, 2330,	\bibitem@fin . . . . . 17580	. . . . . 52, 255,
2352, 2375, 2707,	\bibliofont 85, 288, 15327	2165, 2213, 7678,
2714, 2720, 2726,	\bibliographyitemlabel	13556, 13578, 13624
3010, 3146, 3193,	. . . . . 4624, 4631	\bidi@@thebibliography@font@hook
3200, 3234, 3271,	\bibname . . . . . 8060,	. . . . . 88,
3676, 3961, 4257,	8061, 8784, 8785,	291, 573, 708, 971,
4379, 8458, 8676,	8972, 8973, 9281,	1221, 2390, 4630,
8690, 9343, 9415,	9282, 11114,	8787, 8975, 9284,
13197, 13198,	11115, 12951,	10846, 11117,
13212, 13668,	12952, 18341,	12954, 15330,
13896, 16054,	18342, 18735,	16982, 17567,
16056, 16093,	18736, 18929,	18344, 18738,
16127, 16130,	18930, 19132, 19133	18932, 19135,
16176, 17183,	\bibpostamble . . . . 17581	19665, 20426,
17794, 17989,	\bibpreamble . . . . .	21191, 21921, 23768
17995, 17999,	. . 17564, 19652,	\bidi@addto@envbody
18005, 18009,	19653, 20412,	. . . 4734, 4752, 4754
18014, 18017,	20413, 21177, 21178	\bidi@addto@long@envbody
18022, 18267,	\bibsection 8055, 8058,	. . . 4758, 4776, 4778
18717, 21627,	8060, 8061, 16980,	\bidi@AfterAtEndOfClass
21635, 21643,	17562, 21915, 21917	. . . . . 6305, 6310



<code>\bidi@AfterAtEndOfPackage</code>	<code>\bidi@append@to@list</code>	23699, 23847, 23856, 23865, 23874
..... 6349, 6353	..... 5930, 5949	
<code>\bidi@AfterClass</code> .. 6293	<code>\bidi@append@toks@cs@to@list</code>	<code>\bidi@beamer@rightskip</code>
<code>\bidi@AfterEndDocument</code>	..... 5959	..... 2478,
..... 5651,	<code>\bidi@appto</code> .... 5293,	2607, 3122, 3123, 3270
5654, 5658, 5664	5337, 5616, 6660	<code>\bidi@BeforeBeginEnvironment</code>
<code>\bidi@AfterEndDocumentCheckLabels</code>	<code>\bidi@apptocmd</code> ....	..... 5698, 5706
... 4671, 5623, 5628	.. 5513, 5514, 21831	<code>\bidi@BeforeClass</code> . 6291
<code>\bidi@afterenddocumentchecklabelsreturnset</code>	<code>\bidi@are@thelastcorrect</code>	<code>\bidi@BeforeClosingMainAux</code>
... 5623, 5624, 5629	..... 5927, 5930	.... 6583, 6594,
<code>\bidi@afterenddocumenthook</code>	<code>\bidi@AtBeginEnvironment</code>	6598, 6601, 6609, 6612
..... 5651,	..... 5668, 5680	<code>\bidi@BeforeFile</code> .. 6289
5652, 5659, 5665	<code>\bidi@AtEndEnvironment</code>	<code>\bidi@BeforeFooter</code>
<code>\bidi@AfterEndEnvironment</code>	..... 5684, 5694	..... 5587, 24387
..... 5708, 5718	<code>\bidi@AtEndOutputPage</code>	<code>\bidi@beforefooterhook</code>
<code>\bidi@AfterEndPreamble</code>	..... 4715,	.. 5587, 5588, 24388
..... 5611,	5597, 13322, 24404	<code>\bidi@BeforeHeader</code>
5614, 5617, 5619,	<code>\bidi@atendoutputpagehook</code>	. 5578, 13306, 24370
5634, 6702, 8218, 8241	..... 5597,	<code>\bidi@beforeheaderhook</code>
<code>\bidi@afterendpreamblehook</code>	5598, 13323, 24405	..... 5578,
..... 5611,	<code>\bidi@AtEndPreamble</code>	5579, 13307, 24371
5612, 5618, 5620	.... 3859, 5570,	<code>\bidi@BeforeOutputBoxOutputPage</code>
<code>\bidi@AfterFile</code> 2767,	5573, 5602, 5604,	. 5581, 13310, 24382
3042, 6290, 13750,	5609, 6700, 7498,	<code>\bidi@beforeoutputboxoutputpagehook</code>
19873, 20635, 21400	15667, 17341, 17400	..... 5581,
<code>\bidi@AfterFooter</code> .	<code>\bidi@autofootnoterulefalse</code>	5582, 13311, 24383
..... 5590, 24394	. 13482, 13486, 13489	<code>\bidi@BeforeOutputPageShipOut</code>
<code>\bidi@afterfooterhook</code>	<code>\bidi@autofootnoteruletrue</code>	. 5575, 13288, 24328
.. 5590, 5591, 24395	..... 13504	<code>\bidi@beforeoutputpageshipouthook</code>
<code>\bidi@AfterLastShipout</code>	<code>\bidi@backslash</code> 5751, 5752	..... 5575,
... 5636, 5642, 5648	<code>\bidi@beamer@blacktriangle</code>	5576, 13289, 24329
<code>\bidi@afterlastshipouthook</code>	..... 2497,	<code>\bidi@BeforePackage</code> 6336
..... 5636,	2511, 2512, 2513	<code>\bidi@bswitch</code> . 5893, 5895
5637, 5643, 5649	<code>\bidi@beamer@frametitleshade</code>	<code>\bidi@CharsBefore</code> .
<code>\bidi@AfterOutputBoxOutputPage</code>	..... 3246, 3291	5808, 5810, 5811,
. 5584, 13313, 24385	<code>\bidi@beamer@Gm@lmargin</code>	5816, 5820, 5821, 5826
<code>\bidi@afteroutputboxoutputpagehook</code>	..... 1952,	<code>\bidi@CharsBeforeNC</code> 5809
..... 5584,	1979, 1982, 2059	<code>\bidi@clearpage</code> 5645, 5647
5585, 13314, 24386	<code>\bidi@beamer@Gm@rmargin</code>	<code>\bidi@collect@body</code>
<code>\bidi@AfterOutputPageShipOut</code>	..... 1960, 2068	..... 4740, 4747
. 5594, 13316, 24398	<code>\bidi@beamer@leftskip</code>	<code>\bidi@collect@body</code> 4735
<code>\bidi@afteroutputpageshipouthook</code>	1527, 1541, 1545,	<code>\bidi@collect@long@body</code>
..... 5594,	1563, 1581, 1587,	..... 4764, 4771
5595, 13317, 24399	1685, 1703, 1710,	<code>\bidi@collect@long@body</code>
<code>\bidi@AfterPackage</code> 6338	2470, 2491, 2494,	..... 4759
<code>\bidi@AfterPreamble</code>	2607, 3120, 3121, 3269	<code>\bidi@column@check@number</code>
.. 5608, 5609, 15598	<code>\bidi@beamer@ragged</code>	.. 23985, 24001,
<code>\bidi@AfterReadingMainAux</code>	.... 1510, 1726,	24003, 24005, 24017
..... 6620, 6623	1735, 1744, 2099,	<code>\bidi@column@status</code>
<code>\bidi@append</code> .. 5517, 5567	2342, 2368, 2383,	.. 3798, 3802, 23987
<code>\bidi@append@cslist@to@cslist</code>	2402, 2520, 2542,	<code>\bidi@column@type</code> .
..... 5955, 6028	2776, 2784, 2795,	. 24002, 24007, 24018
<code>\bidi@append@list@to@list</code>	2878, 3661, 23678,	<code>\bidi@copy@stacktop</code> 6013
..... 5951, 6037	23688, 23698,	



\bidi@copyins@amount	\bidi@csxappto 5340, 5342	11354,	11366,
.. 14090, 14091,	\bidi@csxpreto 5349, 5351	11388,	11389,
14092, 14095,	\bidi@current@column@status	11417,	11418,
14100, 14101, 14113	. 23987, 23990, 24023	11419,	11420,
\bidi@counter@page	\bidi@dbg@fail ....	11423,	11429,
..... 4685, 4714	5365, 5375, 5376,	11431,	11456,
\bidi@cs@a ... 5836, 5837	5377, 5378, 5384,	11457,	11475,
\bidi@cs@e 6007, 6008,	5393, 5399, 5509,	11490,	11493,
6010, 6011, 6014, 6016	5531, 5543, 5544, 5553	11496,	11501,
\bidi@cs@lista ....	\bidi@dbg@info . 5366,	11504,	11506,
.... 5980, 5981,	5368, 5371, 5373,	11510,	11528,
5982, 5983, 5992, 5993	5374, 5385, 5387,	11538,	11548,
\bidi@cs@listb 5977, 5979	5389, 5391, 5392,	11558,	11563,
\bidi@cs@liste 5975, 5980	5394, 5396, 5398,	11566,	11569,
\bidi@csappto ..... 5337	5507, 5532, 5534,	11572,	11584,
\bidi@csarg .... 5763,	5536, 5539, 5545, 5547	11597,	11609,
5779, 5853, 5860,	\bidi@dbg@init . 5363,	11614,	11619,
5878, 5883, 5888,	5382, 5506, 5529	11637,	11646,
5893, 5899, 5904,	\bidi@dbg@succ . 5409,	11655,	11664,
5946, 5947, 5965,	5508, 5540, 5548, 5550	11669,	11672,
5971, 5982, 5992,	\bidi@dbg@trce . 5356,	11675,	11678,
6001, 6011, 6015, 6019	5402, 5505, 5514, 5522	11689,	11701,
\bidi@csdefcs ..... 4988	\bidi@default .....	11712,	11717,
\bidi@csappto 5338, 5341	.... 5878, 5883,	11722,	11740,
\bidi@cspreto 5347, 5350	5888, 5893, 5899, 5904	11750,	11760,
\bidi@csappto . 5339,	\bidi@del@tok@from@list	11770,	11775,
5669, 5685, 5699, 5709	..... 5974	11778,	11781,
\bidi@csappto .... 5348	\bidi@digits ... 3848,	11784,	11796,
\bidi@cslet ..... 4994	3854, 3855, 3856	11809,	11821,
\bidi@csletcs ..... 4991	\bidi@digits@charclass	11826,	11831,
\bidi@csname ... 5775,	..... 3850,	11849,	11859,
5926, 5932, 5977, 6011	3854, 3855, 3856, 3857	11869,	11879,
\bidi@cspreto ..... 5346	\bidi@dummies .....	11884,	11887,
\bidi@csprotect ... 6080	... 5858, 5860, 5861	11890,	11893,
\bidi@csundef .. 1520,	\bidi@eappto .....	11905,	11918,
1522, 1524, 1548,	... 5297, 5310, 5338	11930,	11935,
1550, 1552, 1554,	\bidi@empty .... 3864,	11940,	11958,
1556, 1558, 1560,	3865, 5833, 5836, 5837	11968,	11978,
1678, 1680, 1682,	\bidi@empty@stack .	11988,	11993,
1715, 1717, 1719,	..... 6018, 6024	11996,	11999,
2486, 2488, 2505,	\bidi@empty@toks ..	12002,	12014,
2507, 2509, 2553,	... 6031, 6034, 6038	12027,	12039,
2555, 2557, 2604,	\bidi@endpreamblehook	12044,	12049,
2619, 2684, 2686,	..... 5570,	12067,	12077,
2688, 2690, 2692,	5571, 5603, 5605	12087,	12097,
2694, 2696, 2698,	\bidi@ensure@new@command	12102,	12105,
2790, 2993, 3019,	..... 5005, 5006	12108,	12111,
3070, 3098, 3100,	\bidi@ensure@newcommand	12123,	12136,
3102, 3104, 3218,	..... 5005,	12148,	12153,
3254, 3308, 3310,	11314, 11326,	12158,	12176,
3396, 3398, 3491, 5501	11327, 11328,	12186,	12196,
\bidi@csuse .... 5280,	11334, 11335,	12206,	12211,
5675, 5689, 5702, 5713	11339, 11340,	12214,	12217,
\bidi@csswitch . 5888, 5890	11341, 11342,	12220,	12232,



12245,	12257,	17059,	17155,	\bidi@in@front@of@list
12262,	12267,	23994,	24057, 24100	..... 5982
12285,	12295,	\bidi@font@@outputpage		\bidi@info ..... 5016
12305,	12315,	. 13296, 24319, 24361		\bidi@init@mult@footinsv@l
12320,	12323,	\bidi@footdir@footnote		..... 17414, 17428
12326,	12329,	.. 79, 282, 2243,		\bidi@init@mult@footinsv@r
12341,	12354,	13609, 13611, 13615		..... 17410, 17426
12366,	12371,	\bidi@fswitch . 5904, 5906		\bidi@invert@csstack
12376,	12394,	\bidi@gappto .....		..... 6023
12404,	12414,	4709, 5301, 5339,		\bidi@IsEmptyList . 5837
12424,	12429,	5570, 5575, 5578,		\bidi@isloaded ....
12432,	12435,	5581, 5584, 5587,		... 5431, 15717,
12438,	12450,	5590, 5594, 5597,		15718, 15719,
12463,	12475,	5611, 5623, 5636, 5651		15720, 15721,
12480,	12485,	\bidi@gobbleopt 6540, 6549		15722, 15723,
12493,	12500,	\bidi@gpreto .. 5323, 5348		15724, 15725,
12504,	12514,	\bidi@hook@acma 6564,		15726, 15727,
12522,	12535,	6608, 6621, 6622, 6627		15728, 15729,
12653,	12671,	\bidi@hook@bcma 6558,		15730, 15731,
12683,	12695,	6607, 6610, 6611, 6617		15732, 15733,
12699,	12703,	\bidi@hooktocmd ...		15734, 15735,
12707,	12732,	... 5517, 5525, 5527		15736, 15737,
12746,	12760,	\bidi@hooktocmd@i .		15738, 15739,
12770,	12780,	..... 5541, 5555		15740, 15741,
12789,	12798,	\bidi@hop@ES .. 5797, 5799		15742, 15743,
12810,	12816,	\bidi@ifblank@i ...		15744, 15745,
12820, 12831, 12832		... 4960, 4961, 4963		15746, 15747,
\bidi@ensure@newlength		\bidi@ifdefmacro 4966,		15748, 15749,
. 5012, 11338, 11421		4968, 4969, 4970		15750, 15751,
\bidi@epreto .....		\bidi@ifdefparam 5484,		15752, 15753,
... 5319, 5332, 5347		5486, 5487, 5488		15754, 15755,
\bidi@eqs@a ... 5789, 5790		\bidi@ifdefprotected		15756, 15757,
\bidi@eqs@b ... 5789, 5790		..... 5493,		15758, 15759,
\bidi@EqualString . 5789		5495, 5496, 5497		15760, 15761,
\bidi@EqualStringX 5794		\bidi@ifEmpty ..... 5836		15762, 15763,
\bidi@error .... 5014,		\bidi@ifEmpty ..... 5834		15764, 15765,
5265, 5863, 5970, 6139		\bidi@ifEmptyX .... 5835		15766, 15767,
\bidi@everyjob . 3602,		\bidi@ifhashcheck .		15768, 15769,
3603, 3929, 3930		... 5370, 5455, 5538		15770, 15771,
\bidi@excludedpackages		\bidi@ifhashcheck@i		15772, 15773,
6377, 6378, 6398,		..... 5459, 5461		15774, 15775,
6434, 6451, 6459,		\bidi@ifhashcheck@ii		15776, 15777,
6469, 6491, 6492,		..... 5463,		15778, 15779,
6500, 6501, 6506, 6519		5466, 5467, 5468		15780, 15781,
\bidi@expandonce ..		\bidi@ifNextChar .. 5844		15782, 15783,
5285, 5296, 5300,		\bidi@ifpatchable .		15784, 15785,
5304, 5308, 5318,		... 5359, 5361, 5408		15786, 15787,
5322, 5326, 5330, 5551		\bidi@ifpatchable@i		15788, 15789,
\bidi@ff@box 13330, 13348		..... 5359, 5380		15790, 15793,
\bidi@firstcolumn@status@w		\bidi@ifpattern 5372, 5471		15796, 15799,
..... 3796,		\bidi@ifscanable 5369,		15802, 15805,
3804, 9663, 9722,		5390, 5439, 5537		15808, 15811,
13136, 13172,		\bidi@in@front@of@cslist		15814, 15818,
14007, 14060,		..... 5983, 5984		15821, 15824,



15827, 15830,	\bidi@load@hook 6209,	\bidi@lst@ensure@caption@script
15833, 15836,	6212, 6245, 6282	. 15638, 15650, 15694
15839, 15842,	\bidi@loadwithoptions	\bidi@make@mppara@LTRfootgroup
15845, 15848,	... 6217, 6218, 6223	. 12560, 12622, 12789
15851, 15854,	\bidi@local@in@front@of@list	\bidi@make@para@footstart@@
15857, 15860,	..... 5987, 6004	. 12551, 12609, 12810
15863, 15866,	\bidi@local@push@onto	\bidi@make@para@LTRfootgroup
15869, 15872,	..... 6003	. 12549, 12607, 12770
15875, 15878,	\bidi@looprepeat@comp	\bidi@makecolbf ...
15881, 15884,	... 6097, 6133, 6138	..... 12872, 12886
15887, 15890,	\bidi@looprepeat@csarg	\bidi@matrix@check
15893, 15896,	..... 6075, 6127	..... 4791, 23753
15899, 15902,	\bidi@looprepeat@csargromann	\bidi@matrix@error
15905, 15908,	..... 6077,	..... 4793, 4797
15911, 15914,	6092, 6093, 6094,	\bidi@mopfn@bottom
15917, 15920,	6095, 6096, 6099,	..... 11477,
15923, 15926,	6104, 6105, 6106,	12801, 12837,
15929, 15932,	6107, 6108, 6110,	12850, 12887, 12888
15935, 15938,	6116, 6129, 6131,	\bidi@mopfootnotebf
15941, 15944,	6132, 6133, 6140,	..... 12846, 12880
15947, 15950,	6141, 6143, 6148, 6156	\bidi@mpfootnoterule
15953, 15956,	\bidi@looprepeat@csromann	numeral 2192, 2208, 2224,
15959, 15962,	... 6076, 6100,	13386, 13620,
15965, 15968,	6108, 6111, 6127, 6155	13634, 13648,
15971, 15974,	\bidi@looprepeat@depth	13686, 16231, 21829
15977, 15980,	..... 6076,	\bidi@mswitch . 5899, 5901
15983, 15986,	6077, 6079, 6091, 6117	\bidi@multicol@align@columns
15989, 15992,	\bidi@looprepeat@dxbody	..... 17283,
15995, 15998,	..... 6100, 6104	17334, 17337, 17339
16001, 16004, 16007	\bidi@looprepeat@setup	\bidi@n@everypar ..
\bidi@lastcolumn@status@write	..... 6097, 6123	.. 17983, 17984,
... 3800, 3805,	\bidi@looprepeat@sign	17985, 17986,
9667, 9728, 13140,	... 6097, 6108, 6138	23447, 23632,
13178, 14013,	\bidi@looprepeat@tmp	23633, 23634, 23635
14064, 17063,	6098, 6099, 6126,	\bidi@namedef ..... 5720
17161, 24061, 24106	6128, 6131, 6136,	\bidi@nameedef ..... 5722
\bidi@leave@mult@copyins	6143, 6146, 6148, 6151	\bidi@namegdef ....
..... 17396, 17488	\bidi@looprepeat@traceexit	... 4714, 5018, 5721
\bidi@leave@mult@footins@vl	..... 6082, 6117	\bidi@namelongdef . 4997
..... 17406, 17484	\bidi@looprepeat@traceinit	\bidi@namelongedef 5001
\bidi@leave@mult@footins@vr	..... 6082, 6090	\bidi@namelonggdef 4999
..... 17402, 17480	\bidi@looprepeat@zero	\bidi@namelongxdef 5003
\bidi@left@footnoterule	... 6097, 6116, 6154	\bidi@namexdef .... 5723
. 16145, 16151, 16156	\bidi@lst@caption@direction	\bidi@new@command .
\bidi@leftskip ....	..... 15616,	..... 5237,
.. 22447, 22449,	15617, 15629, 15632	5239, 5268, 5276
22451, 22452,	\bidi@lst@caption@script	\bidi@new@ifnch 4785, 4787
22562, 22619,	..... 15623,	\bidi@new@ifnextchar
22621, 22657,	15624, 15640, 15643	..... 4782, 23758
22658, 22690, 23676	\bidi@lst@ensure@caption@direction	\bidi@new@command ..
\bidi@length@of@csstack	..... 15627,	..... 5239, 5241
... 6019, 6020, 6023	15652, 15654,	\bidi@newrobustcmd
\bidi@length@of@stack	15656, 15675,	.... 3671, 3673,
..... 6019, 6033	15679, 15686, 15695	5236, 5237, 5261,



5272, 5293, 5297, 5301, 5305, 5310, 5311, 5315, 5319, 5323, 5327, 5332, 5333, 5337, 5338, 5339, 5340, 5341, 5342, 5346, 5347, 5348, 5349, 5350, 5351, 5355, 5401, 5500, 5501, 5513, 5521, 5570, 5573, 5575, 5578, 5581, 5584, 5587, 5590, 5594, 5597, 5608, 5611, 5614, 5623, 5636, 5651, 5654, 5668, 5684, 5698, 5708, 23726, 23728	\bidi@orig@raggedright . 23887, 23888, 23889 \bidi@orig@rightline . 23902, 23903, 23904 \bidi@oswitch . . . . . 5883 \bidi@p@ftn 4211, 4274, 4276, 4277, 4279, 4280, 4282, 4283, 4287, 4290, 4293, 4398 \bidi@p@ftntext . . . . . . 4258, 4275, 4380 \bidi@p@LTRftntext . . . 4259, 4278, 4381 \bidi@p@RTLftntext . . . 4260, 4281, 4382 \bidi@p@xfootnote . . . . 4262, 4296, 4384 \bidi@p@xftntext 4261, 4286, 4301, 4383 \bidi@p@xLTRfootnote . . . 4264, 4304, 4386 \bidi@p@xLTRftntext . . . . . 4263, 4289, 4309, 4385 \bidi@p@xRTLfootnote . . . 4266, 4312, 4388 \bidi@p@xRTLftntext . . . . . 4265, 4292, 4317, 4387 \bidi@page@count 4652, 4653, 4687, 4716 \bidi@paraskip 12571, 12574, 12578, 12633, 12636, 12640 \bidi@patch@@AfterPackage . . . . . 6672, 6677 \bidi@patch@Add 6659, 6688 \bidi@patch@AfterPackage . . . . . 6662, 7610, 7612, 7615, 7636, 7787, 7837, 7893, 8137 \bidi@patch@counter . . . . . 6640, 6644, 6647, 6653, 6654, 6673 \bidi@patch@gttemp . . . . . . 6680, 6687 \bidi@patch@list 6658, 6660, 6698, 6700, 6707 \bidi@patch@OrgIfClassLater . . . . . 6706, 6711 \bidi@patch@OrgIfClassLoaded . . . . . 6705, 6710 \bidi@patch@OrgIfPackageLater . . . . . 6704, 6709	\bidi@patch@OrgIfPackageLoaded . . . . . 6703, 6708 \bidi@patch@stepcounter . . . 6642, 6652, 6671 \bidi@patch@temp . . . . . . . 6670, 6674 \bidi@patch@try 6689, 6692 \bidi@patchcmd . . . . . . . . . 171, 179, 188, 338, 1838, 5401, 5402, 5626, 5639, 5656, 5673, 5687, 5711, 6931, 10443, 10446, 10463, 10466, 10469, 10485, 10488, 10491, 10509, 10517, 10525, 10534, 10543, 10552, 14358, 15258, 15266, 15274, 15282, 15290, 15299, 15307, 15316, 15574, 15580, 15588, 15668, 15681, 16137, 17422, 17431, 17452, 17459, 17466, 17474, 17725, 21818, 21826, 24124 \bidi@patchcmd@scantoks . . . 5419, 5425, 5563 \bidi@pdfencrypt@keylength . . . . . 3724, 3877 \bidi@pdfencrypt@ownerpassword . . . 3721, 3864, 3876 \bidi@pdfencrypt@permissionflags . . . . . 3727, 3878 \bidi@pdfencrypt@userpassword . . . 3718, 3865, 3875 \bidi@pdfm@mark 4002, 4017 \bidi@pickescape . . 5784 \bidi@pop@cs@into . . . . . . 6007, 6026 \bidi@pop@into 6010, 6036 \bidi@pos . 5018, 5026, 5054, 5080, 5108, 5134, 5137, 5171, 5174 \bidi@poscount . 5020, 5023, 5026, 5043, 5045, 5054, 5068, 5070, 5077, 5080,
\bidi@next . . . . . 5810, 5811, 5813, 5815, 5816, 5818, 5823, 5825, 5826, 5828		
\bidi@NextChar . . . . 5841		
\bidi@normal@footmarkwidth . . . . . 11323, 11381, 11387, 11526, 11635, 11738, 11847, 11956, 12065, 12174, 12283, 12392, 12587, 12649		
\bidi@notblank . 4962, 4970, 5488, 5497		
\bidi@nxt@a . . . . . . . . 5842, 5845, 5847		
\bidi@nxt@b . . . . . . . . 5842, 5845, 5848		
\bidi@nxt@c . . . . . . . . 5843, 5846, 5847		
\bidi@nxt@ch . . . . . . . . 5842, 5845, 5847		
\bidi@o@everypar . . . . . . . 17982, 17984, 17985, 23631, 23633, 23634		
\bidi@oldwbuskip . . . . . . . 5969, 5972		
\bidi@onefilewithoptions . . . 6233, 6234, 6238		
\bidi@orig@leftline . 23901, 23903, 23904		
\bidi@orig@raggedleft . 23886, 23888, 23889		



5097, 5099, 5108, 5122, 5124, 5131, 5134, 5137, 5154, 5156, 5160, 5162, 5171, 5174, 5188, 5190, 5194, 5196, 5203, 5205, 5206, 5208, 5209, 5212, 5213, 5220, 5222, 5223	\bidi@providerobustcmd ..... 5272 \bidi@push@begins . ... 4744, 4745, 4748 \bidi@push@cs@onto@cs ..... 6000, 6027 \bidi@push@long@begins ... 4768, 4769, 4772 \bidi@push@onto ... 6001 \bidi@push@onto@cs ..... 6001, 6002 \bidi@raggedleft .. ... 4565, 4572, ..... 5953 \bidi@prepend@list@to@list ..... 5953 \bidi@prepend@to@list ..... 5950 \bidi@prepend@toks@cs@to@list ..... 5960 \bidi@preto ..... ... 5315, 5346, 5600 \bidi@pretocmd . 5521, 5522, 5701, 5743 \bidi@PreventPackageFromLoading ..... 6380, 6394, 6424, 6457 \bidi@process@envbody ..... 4737, 4741, 4742, 4756, 4761, 4765, 4766, 4780 \bidi@protected ... .... 5288, 5310, 5311, 5332, 5333, 5341, 5342, 5350, 5351 \bidi@protected@cs@appto ..... 5341 \bidi@protected@cs@epreto ..... 5350 \bidi@protected@cs@xappto ..... 5342 \bidi@protected@cs@xpreto ..... 5351 \bidi@protected@eappto ..... 5310 \bidi@protected@epreto ..... 5332 \bidi@protected@immediate@write ... 6613, 6624, 6630 \bidi@protected@xappto ..... 5311 \bidi@protected@xpreto ..... 5333 \bidi@provide@command ..... 5272, 5274	\bidi@providerobustcmd ..... 5272 \bidi@push@begins . ... 4744, 4745, 4748 \bidi@push@cs@onto@cs ..... 6000, 6027 \bidi@push@long@begins ... 4768, 4769, 4772 \bidi@push@onto ... 6001 \bidi@push@onto@cs ..... 6001, 6002 \bidi@raggedleft .. ... 4565, 4572, 4577, 4596, 10142, 10258, 13104, 13110, 14474, 23891 \bidi@raggedright . ... 13102, 13108, 17496, 17499, 17501, 17504, 17506, 17508, 17511, 17513, 17515, 17517, 17520, 17522, 17524, 17526, 17528, 17531, 17533, 17536, 17538, 17541, 17543, 17545, 17548, 17550, 17552, 17555, 17557, 17559, 23890 \bidi@rcol@copyinsskip ..... 13970, 13975, 13984, 14033 \bidi@redefine@newpage ..... 6574, 6614 \bidi@reflect@box . ... 18060, 18067, 23720, 23727, 23729 \bidi@reinsert@footnotesv@l ... 17420, 17429, 17457, 17464, 17471 \bidi@reinsert@footnotesv@t ... 17418, 17427, 17456, 17463, 17470 \bidi@renew@command ... 5261, 5263, 5277 \bidi@renewrobustcmd ..... 5261 \bidi@ReplaceClass 6264 \bidi@replacefile@msg ..... 6201, 6225, 6240, 6278	\bidi@ReplaceInput 6248 \bidi@ReplacePackage ..... 6261 \bidi@RequirePackage ... 6400, 6460, 6511 \bidi@ResetPreventPackageFromLoading ..... 6452, 6458, 6467, 6506 \bidi@resrvda ..... 5411, 5412, 5413, 5416, 5417, 5418, 5419, 5420, 5421, 5426, 5429, 5441, 5442, 5443, 5444, 5445, 5447, 5448, 5457, 5459, 5473, 5474, 5476, 5478, 5479, 5557, 5558, 5559, 5560, 5561, 5562, 5563, 5564, 5565 \bidi@resrvdb . 5413, 5414 \bidi@restore@newpage ... 6559, 6576, 6606 \bidi@restorecatcode ..... 5768 \bidi@right@footnoterule ... 16146, 16149, 16158 \bidi@rightskip 22443, 22555, 22623, 22624, 22636, 22640, 22644, 23677 \bidi@RTL@everypar ... 12660, 12672, 12684, 12715, 12734, 12748, 17981, 17985, 21567, 23630, 23634 \bidi@s@tffftextcol ..... 13327, 13331 \bidi@s@saved@checkend ... 6551, 6554, 6572 \bidi@s@saved@clearpage ... 6556, 6557, 6560 \bidi@s@saved@odofilelist ..... 6562, 6565, 6566, 6573 \bidi@s@saved@eqno .. ..... 18071, 18073, 18074, 24417, 24419, 24420 \bidi@s@saved@leqno . ..... 18072, 18073, 18074, 24418, 24419, 24420
--	---	--	---



\bidi@saved@newpage	3763, 3764, 3775,	\bidi@x@stack@to@list
..... 6575, 6586	3776, 3781, 3782,	..... 6033
\bidi@saved@RequirePackage	3787, 3788, 3794,	\bidi@xappto .....
.... 6379, 6399,	3795, 3808, 3809,	... 5305, 5311, 5340
6410, 6462, 6464, 6542	3815, 3816, 3825, 3826	\bidi@xargdef . 5243, 5251
\bidi@sepmark@charclass	\bidi@tempcountb 5755,	\bidi@xparaskip 12532,
..... 3851,	6024, 6025, 6034, 6035	12570, 12632, 12651
3852, 3853, 3857	\bidi@temptoksa 5756,	\bidi@xpreto .....
\bidi@set@column@status	6024, 6027, 6028,	... 5327, 5333, 5349
. 23989, 24017, 24022	6029, 6031, 6034, 6038	\bidicolor .... 9409,
\bidi@set@cslist ..	\bidi@temptoksb 5757,	9465, 9480, 9482,
..... 5993, 5994	6026, 6027, 6028, 6029	13328, 23573,
\bidi@set@list .... 5992	\bidi@todonotes@tempa	23620, 23623, 23624
\bidi@set@load@hook	..... 23323, 23331	\bidics ..... 5752
.... 6286, 6289,	\bidi@todonotes@tempb	\bididate . 3570, 3572,
6290, 6292, 6311,	..... 23323,	3587, 3652, 3655,
6323, 6337, 6354, 6365	23324, 23331, 23332	3896, 3914, 3993, 3996
\bidi@SOUL@ulleaders	\bidi@tok@SM .. 5975, 5980	\bidiGscale@box ..
..... 21608, 21614	\bidi@toks@lista ..	..... 14294, 14295
\bidi@stack@length	5940, 5942, 5943,	\bidiGscale@box ...
6018, 6020, 6021,	5944, 5945, 5976,	. 14271, 14272, 14291
6025, 6026, 6035, 6036	5978, 5984, 5985,	\bidiGscale@box@dd
\bidi@star@footmarkwidth	5987, 5989, 5994, 5995	. 14303, 14307, 14313
.. 11323, 11384,	\bidi@toks@listb ..	\bidiGscale@box@ddd
11526, 11635,	... 5940, 5976, 5978	..... 14309, 14320
11738, 11847,	\bidi@undef .... 2515,	\bidillap ..... 23906
11956, 12065,	2538, 2921, 5421,	\bidipdfinfooff ... 4014
12174, 12283,	5500, 5565, 5605,	\bidipdfinfoon 4013, 4019
12392, 12587, 12649	5620, 22302,	\bidipoem@hvlen 8382,
\bidi@storecatcode 5761	22303, 22463,	8388, 8391, 8394, 8403
\bidi@storePreventPackageFromLoading	22464, 22713, 22714	\bidipoem@half@verses
..... 6468, 6471	\bidi@undefined 5500, 5502	... 8408, 8409, 8412
\bidi@StringBefore 5819	\bidi@undefinedcs .	\bidipoem@half@verses@next
\bidi@StringBeforeNC	5853, 5860, 5915,	... 8408, 8409, 8410
..... 5807	5919, 5925, 5929, 5970	\bidipoem@hvind ...
\bidi@switch ... 5867,	\bidi@UnPreventPackageFromLoading	8382, 8385, 8386,
5878, 5880, 5885	..... 6472	8394, 8395, 8398, 8401
\bidi@switch@exit .	\bidi@UnReplaceClass	\bidipoem@hvlen 8381,
5877, 5878, 5879,	..... 6275	8386, 8388, 8399, 8401
5883, 5884, 5888,	\bidi@UnReplaceInput	\bidipoem@hvsep 8381,
5889, 5893, 5894,	..... 6252	8394, 8395, 8402
5899, 5900, 5904, 5905	\bidi@UnReplacePackage	\bidipoem@next 8387, 8388
\bidi@t@w@w ..... 5928	..... 6272	\bidipoem@openbox .
\bidi@tabular@RTLcases	\bidi@version .. 3571,	..... 8426, 8431
..... 23733, 23760	3572, 3587, 3604,	\bidipoem@p@ftn 8433,
\bidi@tempa .....	3606, 3612, 3618,	8443, 8567, 8568,
3733, 3739, 3745,	3652, 3655, 3658,	8570, 8571, 8573,
3751, 3757, 3763,	3898, 3914, 3934,	8574, 8577, 8580,
3775, 3781, 3787,	3936, 3993, 3996, 3999	8583, 8688, 14931,
3794, 3808, 3815, 3825	\bidi@w@w ..... 5915	14941, 14962,
\bidi@tempb .... 3733,	\bidi@warning .. 5015,	14972, 14993, 15003
3734, 3739, 3740,	5678, 5692, 5704, 5716	\bidipoem@p@ftntext
3745, 3746, 3751,	\bidi@willbeunhskip	8460, 8471, 8566,
3752, 3757, 3758,	... 5962, 5969, 5972	8677, 8691, 14929



<code>\bidipoem@p@LTrftntext</code>	17893, 17897, 8461, 8472, 8569, 8678, 8692, 14960	8105, 8242, 8311, 8322, 13342, 17740
<code>\bidipoem@p@RTLftntext</code>	8462, 8473, 8572, 8679, 8693, 14991	<code>\botmark</code> ... 13321, 24403
<code>\bidipoem@p@xfootnote</code>	..... 8464, 8475, 8585, 8681, 8695	<code>\box</code> ..... 1783, 1901, 1905, 1907, 1915, 1921, 1923, 1973, 1977, 1979, 1999, 2008, 2010, 2028, 2037, 2039, 2077, 2081, 2083, 2090, 3295, 3708, 3985, 7256, 9316, 9380, 9448, 9605, 9608, 9625, 9629, 9664, 9668, 9674, 9675, 9723, 9729, 9733, 9734, 9960, 9965, 9972, 9979, 10015, 10299, 10320, 10336, 10393, 11496, 11501, 12497, 12511, 12520, 12863, 12874, 13137, 13141, 13173, 13179, 13222, 13312, 13345, 13350, 13910, 13917, 13920, 13934, 14008, 14014, 14061, 14065, 14104, 14116, 14127, 14137, 14150, 14222, 14239, 14242, 14285, 14288, 14318, 14335, 15662, 16070, 16121, 16127, 16137, 16139, 16141, 16475, 16733, 16744, 16749, 16783, 16784, 16785, 16786, 16788, 16917, 16951, 17060, 17064, 17156, 17162, 17299, 17305, 17320, 17328, 17706, 17714, 17719, 17856, 17860, 17876, 17910,
<code>\bidipoem@p@xLTrfootnote</code>	..... 8466, 8477, 8592, 8683, 8697	<code>\blacktriangleleft</code> . 2499, 13812, 13814
<code>\bidipoem@p@xLTrftntext</code>	..... 8465, 8476, 8579, 8597, 8682, 8696	<code>\blacktriangleright</code> . 2501, 13812, 13814
<code>\bidipoem@p@xRTLfootnote</code>	..... 8468, 8479, 8599, 8685, 8699	<code>\bm@b</code> ..... 23966 <code>\bm@l</code> ..... 23963 <code>\bm@r</code> ..... 23964 <code>\bm@t</code> ..... 23965
<code>\bidipoem@p@xRTLftntext</code>	..... 8467, 8478, 8582, 8604, 8684, 8698	<code>\bmb@box</code> .. 1768, 1773, 1774, 1775, 1778, 1779, 1783, 1784, 1785, 1791, 1792, 1804, 1810, 1814, 1829
<code>\bidipoem@set@@verse</code>	... 8388, 8391, 8393	<code>\bmb@colorbox</code> ..... 1828
<code>\bidipoem@set@verseI</code>	..... 8387, 8390	<code>\bmb@dima</code> . 1788, 1801, 1804, 1805, 1806, 1807, 1818, 1819, 1820
<code>\bidipoem@spreadbox</code>	..... 8377, 8399, 8401, 8402, 8403	<code>\bmb@dimb</code> ..... 1789, 1802, 1803, 1806
<code>\bidirlap</code> ..... 23905		<code>\bmb@lower</code> ... 1755, 1831
<code>\bidituftefloatDebugInfoNL</code>	..... 6719, 6807, 6811, 7106, 7155	<code>\bmb@prevheight</code> 1776, 1785
<code>\bidituftefloatError</code>	..... 6718, 7201	<code>\bmb@temp</code> ..... 1779, 1780, 1781, 1783, 1787, 1788, 1789, 1799
<code>\bidituftefloatInfoNL</code>	... 6719, 6720, 7270	<code>\bmb@upper</code> ... 1760, 1770
<code>\bidituftefloatRecalculate</code>	..... 6836, 6847	<code>\bmb@width</code> 1769, 1778, 1787, 1817, 1818, 1829
<code>\bidituftehyperrefLoadHyperref</code>	..... 8095, 8106	<code>\bool</code> ... 16257, 16265, 16396, 16413, 16414, 16458, 16464, 16479, 16502, 16505, 16525, 16530, 16542, 16559, 16560, 16563, 16580, 16605, 16612, 16618, 16624, 16634, 16641, 16663, 16775, 16778, 16786, 16787, 17707, 17709, 17718
<code>\bidituftesidenotemarginpar</code>	... 7286, 7638, 7797	<code>\boolean</code> ..... 6719, 6779, 6781, 6784, 6788, 6791, 6794, 6819, 6915, 6930, 6941, 6961, 6968, 6976, 6993, 7013, 7017, 7035, 7036, 7039, 7040, 7075, 7084, 7095, 7840, 7844, 7892,
<code>\bidituftetocError</code>	... 7826, 7873, 7882	
<code>\bidiversion</code> .. 3604, 3931		
<code>\bigskip</code> ..... 18122		
<code>\bigskipamount</code> 11484, 11489, 12572, 12576, 12634, 12638		
<code>\bl</code> ..... 17887, 17888, 17891, 17892,		



17914, 17919,	17920, 17921,	\bx@QQ . . . . . 7172, 7197
17923, 17935,	17923, 17943,	\bx@R . . . . . 7144, 7185
17946, 17960,	17944, 17946,	\bx@r . . . . 7132, 7150, 7191
17963, 17967,	17970, 17971, 17972	\bx@RR . . . . . 7173, 7197
17972, 18048,	\bx@A . . . . . 7141, 7182	\bx@S 7105, 7107, 7145, 7186
18064, 18109,	\bx@a . . . . 7115, 7147, 7188	\bx@s . . . . 7133, 7151, 7192
18112, 19176,	\bx@AA . . . 7154, 7156, 7194	\bx@SS . . . . . 7174, 7198
19185, 19223,	\bx@B . . . . . 7141, 7182	\bx@T . . . . 7108, 7145, 7186
19234, 21810,	\bx@b . . . . 7116, 7147, 7188	\bx@t . . . . 7134, 7151, 7192
21856, 21874,	\bx@BB . . . . . 7157, 7194	\bx@TT . . . . . 7175, 7198
23517, 23518,	\bx@C . . . . . 7141, 7182	\bx@U . . . . 7109, 7145, 7186
23528, 23724,	\bx@c . . . . 7117, 7147, 7188	\bx@u . . . . 7135, 7151, 7192
23908, 24058,	\bx@CC . . . . . 7158, 7194	\bx@UU . . . . . 7176, 7198
24062, 24101,	\bx@D . . . . . 7141, 7182	\bx@V . . . . 7110, 7145, 7186
24107, 24126,	\bx@d . . . . 7118, 7147, 7188	\bx@v . . . . 7136, 7151, 7192
24142, 24274,	\bx@DD . . . . . 7159, 7194	\bx@VV . . . . . 7177, 7198
24290, 24301,	\bx@E . . . . . 7141, 7182	\bx@W . . . . 7111, 7146, 7187
24314, 24316,	\bx@e . . . . 7119, 7147, 7188	\bx@w . . . . 7137, 7152, 7193
24380, 24384, 24414	\bx@EE . . . . . 7160, 7194	\bx@WW . . . . . 7178, 7199
\boxdef . . . . . 4160,	\bx@F . . . . . 7142, 7183	\bx@X . . . . 7112, 7146, 7187
4162, 4168, 4173, 4178	\bx@f . . . . 7120, 7148, 7189	\bx@x . . . . 7138, 7152, 7193
\boxmaxdepth . . 10291,	\bx@FF . . . . . 7161, 7195	\bx@XX . . . . . 7179, 7199
10296, 10312,	\bx@G . . . . . 7142, 7183	\bx@Y . . . . 7113, 7146, 7187
10317, 10344,	\bx@g . . . . 7121, 7148, 7189	\bx@y . . . . 7139, 7152, 7193
10401, 11391,	\bx@GG . . . . . 7162, 7195	\bx@YY . . . . . 7180, 7199
12833, 12848,	\bx@H . . . . . 7142, 7183	\bx@Z . . . . 7114, 7146, 7187
13069, 13863,	\bx@h . . . . 7122, 7148, 7189	\bx@z . . . . 7140, 7152, 7193
13865, 14189,	\bx@HH . . . . . 7163, 7195	\bx@ZZ . . . . . 7181, 7199
24129, 24145, 24156	\bx@I . . . . . 7142, 7183	\bye . . . . . 4017
\br . . . . . 17887, 17889,	\bx@i . . . . 7123, 7148, 7189	\bystep . . . . . 6043,
17891, 17892,	\bx@II . . . . . 7164, 7195	6055, 6139, 6152,
17893, 17897,	\bx@J . . . . . 7142, 7183	6162, 6175, 6188, 6189
17953, 17959, 17967	\bx@j . . . . 7124, 7148, 7189	
\BR@b@bibitem . 7491, 7492	\bx@JJ . . . . . 7165, 7195	C
\BR@bibitem . . . 7494, 7495	\bx@K . . . . . 7143, 7184	\c . . . . . 16459, 16460,
\BR@c@bibitem . . . . . 7496	\bx@k . . . . 7125, 7149, 7190	16474, 16736, 16817
\bracetext . . . . .	\bx@KK . . . . . 7166, 7196	\c@abspage . . . . . 13417
3675, 3960, 17987,	\bx@L . . . . . 7143, 7184	\c@addvipersep 17004,
17988, 23636, 23637	\bx@l . . . . 7126, 7149, 7190	17022, 17027,
\break . . . . . 16027	\bx@LL . . . . . 7167, 7196	17049, 17079,
\BreakBibliography	\bx@M . . . . . 7143, 7184	17104, 17122,
. . . . . 19658,	\bx@m . . . . 7127, 7149, 7190	17127, 17149, 17176
19691, 19693,	\bx@MM . . . . . 7168, 7196	\c@algocf . . . . . 168
19699, 20419,	\bx@N . . . . . 7143, 7184	\c@chapter . . . . 8818,
20452, 20454,	\bx@n . . . . 7128, 7149, 7190	8820, 8822, 8995,
20460, 21184,	\bx@NN . . . . . 7169, 7196	8997, 8999, 9240,
21217, 21219, 21225	\bx@O . . . . . 7144, 7185	9242, 9244, 9245,
\breaklooprepeat 6061,	\bx@o . . . . 7129, 7150, 7191	11072, 11074,
6063, 6115, 6116,	\bx@OO . . . . . 7170, 7197	11076, 11077,
6134, 6145, 6150, 6164	\bx@P . . . . . 7144, 7185	13062, 13064,
\breakrepeatloop . . 6090	\bx@p . . . . 7130, 7150, 7191	13066, 13354,
\bs . . . . . 4128, 4129, 4131	\bx@PP . . . . . 7171, 7197	13356, 13358,
\bslice . . . . . 17907,	\bx@Q . . . . . 7144, 7185	13359, 13367,
17908, 17910,	\bx@q . . . . 7131, 7150, 7191	13369, 13371,



13372, 15712,	11003, 13006,	13373, 16868,
16879, 17609,	13695, 13709,	17619, 18358,
18364, 18366,	14744, 14854,	18723, 18923,
18368, 18729,	14862, 14892,	19106, 20384, 21153
18731, 18733,	14900, 15407,	\c@subparagraph 549,
18918, 18920,	16101, 16104,	703, 957, 1216,
18922, 19100,	18381, 18440,	8816, 8993, 9250,
19102, 19104, 19105	18520, 18581,	10959, 11082,
\c@colht . . . . . 17004,	18777, 18820,	13060, 13364,
17016, 17042,	19007, 19429,	13377, 16876,
17043, 17104,	19550, 20169,	18362, 18727,
17116, 17142, 17143	20290, 20942, 21063	18927, 19110,
\c@curpg . . . . .	\c@Hy@AnnotLevel . .	19645, 20392, 21161
. 13236, 13263, 13264	. . . . . 15066,	\c@subsection 546, 700,
\c@DFNsloppiness . .	15067, 15072, 15076	954, 1213, 2441,
. . . . . 10289, 10310	\c@L@lines . . . . .	8813, 8990, 9247,
\c@enumiv . . . . . 574,	. 15547, 15549, 15552	10956, 11079,
581, 709, 716, 972,	\c@ll@chapseci . . . . 9490	13057, 13361,
979, 1222, 1229,	\c@ll@chapsecii . . . 9485	13374, 16870,
2391, 2400, 4641,	\c@lofdepth . 22153, 22190	18359, 18724,
8788, 8795, 8976,	\c@lor@error . . . . .	18924, 19107,
8983, 9285, 9292,	9454, 9461, 9469,	19639, 20386, 21155
10847, 10854,	9475, 23565, 23599	\c@subsectionslide 2443
11118, 11125,	\c@lotdepth . 22171, 22210	\c@subsubsection 547,
12955, 12962,	\c@lstlisting 15712, 15714	701, 955, 1214,
18345, 18352,	\c@LT@chunks . . . . . 16053	8814, 8991, 9248,
18739, 18746,	\c@mpfootnote . . . . .	10957, 11080,
18933, 18940,	2192, 2208, 2224,	13058, 13362,
19136, 19143,	13620, 13634,	13375, 16872,
19667, 19676,	13648, 13673, 16240	18360, 18725,
19683, 20428,	\c@NAT@ctr . . . . . 17568	18925, 19108,
20437, 20444,	\c@page . . 8249, 10571,	19641, 20388, 21157
21193, 21202,	10599, 13236,	\c@table . . . . .
21209, 21922, 21929	13263, 23480, 24270	8822, 8999, 9244,
\c@equation . . . . .	\c@paragraph . . . 548,	11076, 13066,
8818, 8995, 9240,	702, 956, 1215,	13358, 13371,
10686, 10755,	8815, 8992, 9249,	16881, 18368,
11072, 13062,	10958, 11081,	18731, 18922,
13354, 13367,	13059, 13363,	19104, 20398, 21167
16879, 18364,	13376, 16874,	\c@thisframe . . . . .
18733, 18918,	18361, 18726,	. . 13235, 13240,
19100, 20406, 21171	18926, 19109,	13276, 13278, 13279
\c@figure . . . . .	19643, 20390, 21159	\c@tocdepth . . . . . 3,
8820, 8997, 9242,	\c@part . . . . . 2415	198, 508, 525, 644,
11074, 13064,	\c@poem@no . . . . 8518,	660, 678, 871, 904,
13356, 13369,	8560, 8612, 8623	922, 1127, 1143,
16880, 18366,	\c@secnumdepth . 304,	1161, 8722, 8738,
18729, 18920,	551, 560, 9059,	8754, 8899, 8915,
19102, 20395, 21164	9254, 10816,	8931, 9202, 9217,
\c@footnote . . . . 128,	10825, 11086,	10789, 10803,
318, 453, 745, 804,	12925, 18126, 19114	11058, 12893,
997, 1056, 1247,	\c@section 2440, 8812,	12908, 15369,
1306, 4055, 8833,	8989, 9246, 11078,	17224, 17236,
9010, 9147, 10906,	13056, 13360,	17248, 18274,



18290, 18306,	\cals@table@alignment	\caption@make@below
18646, 18662,	..... 9362, 9363	..... 16089
18678, 18878,	\cals@tbreak@tokens 9367	\caption@makecaption
18892, 19062,	\cals@tfoot@height 9368	..... 9399, 15697
19077, 21998,	\cals@tfoot@tokens	\caption@normalsize
22002, 22044,	..... 9366, 9383	..... 16083
22063, 22085,	\cals@thead@tokens 9365	\caption@parindent 9402
22102, 22119,	\cals@vfillAdd . 9358,	\caption@prepare@stepcounter
22136, 22428,	9360, 9386, 9395	..... 16081
22540, 22578,	\cals@vfillDrop ...	\caption@setautoposition
23074, 23270, 23968	.... 9359, 9360,	..... 16079
\c@tracingmulticols	9388, 9390, 9393, 9397	\caption@starfalse
..... 17432, 17450	\CAny ..... 4149	..... 15698, 16080
\c@twb ..... 9615	\cAny ..... 4157	\caption@startrue .
\c@twcompctr ..... 9596	\cap@indent .....	. 15699, 15705, 16080
\c@twcompoddctr ... 9612	.. 19831, 19839,	\captionabove . 19902,
\c@twfirst 9597, 9603,	19849, 19852,	19907, 20664,
9610, 9614, 9623, 9626	19854, 20592,	20669, 21429, 21434
\c@twlftside ..... 9601	20600, 20610,	\captionbelow . 19904,
\c@twlspec 9615, 9618, 9622	20613, 20615,	19909, 20666,
\c@twprune .... 9601,	21357, 21365,	20671, 21431, 21436
9602, 9618, 9622	21375, 21378, 21380	\captionformat ....
\c@twrounds .... 9613,	\cap@left .... 19763,	.. 19792, 19824,
9616, 9619, 9631	19800, 20524,	19835, 19846,
\c@twrtside ..... 9602	20561, 21289, 21326	19857, 20553,
\c@twslicea ..... 9599,	\cap@margin .....	20585, 20596,
9601, 9605, 9608,	. 19719, 20480, 21245	20607, 20618,
9617, 9618, 9625, 9629	\cap@right ... 19771,	21318, 21350,
\c@twsliceb .... 9600,	19867, 20532,	21361, 21372, 21383
9602, 9605, 9608,	20628, 21297, 21393	\captionlabelfalse 15703
9621, 9622, 9625, 9629	\cap@width ... 19748,	\catcode ..... 3897,
\c@twwinlines . 9598, 9611	19801, 20509,	4018, 5428, 5764,
\c@zabspace ..... 13417	20562, 21274, 21327	5765, 5766, 5806,
\cals@activate@rtl 9364	\caption ..... 6924,	7463, 7485, 8416,
\cals@AtBeginTable 9381	6925, 6927, 6983,	8417, 8419, 8420,
\cals@AtEndTable .. 9383	14447, 14465,	13821, 13822, 13937
\cals@backup@row .. 9380	16030, 16955,	\Centering ..... 18136
\cals@borderB ..... 9379	16957, 19804,	\centering .... 303,
\cals@borderL ..... 9376	19805, 20565,	2793, 10146,
\cals@borderR ..... 9377	20566, 21330, 21331	10159, 10275,
\cals@borderT ..... 9378	\caption@@make ... 16088	13103, 13109,
\cals@current@context	\caption@@par ..... 9401	14477, 14562,
..... 9370	\caption@begin ... 16082	14578, 16902,
\cals@last@context 9369	\caption@belowskip 16086	16904, 16906,
\cals@paddingL . 9386,	\caption@end ..... 16090	19517, 20257, 21030
9388, 9393, 9395	\caption@hangindent 9402	\CenteringLeftskip 18141
\cals@paddingR 9390, 9397	\caption@ifdefined 16085	\CenteringParfillskip
\cals@set@tohsize . 9373	\caption@LT@make . 16076	..... 18144
\cals@setcellprevdepth	\caption@LT@settype	\CenteringParindent
..... 9373	..... 16077	..... 18145
\cals@setpadding .. 9373	\caption@LT@setup 16078	\CenteringRightskip
\cals@setup@alignment	\caption@make@above	..... 18142
..... 9357, 9372	..... 16087	\centerline 307, 13917,
		13934, 18075, 23892



<code>\cftbeforechapskip</code>	22046	<code>\cftpartpresnum</code>	...	<code>\cftsubtabaftersnum</code>	..... 22220
<code>\cftbeforefigskip</code>	22154	..... 22023, 22027		<code>\cftsubtabaftersnumb</code>	..... 22221
<code>\cftbeforeparaskip</code>	22120	<code>\cftsecaftersnum</code>	22078	<code>\cftsubtabfillnum</code>	22224
<code>\cftbeforepartskip</code>	22014	<code>\cftsecaftersnumb</code>	22079	<code>\cftsubtabfont</code>	... 22223
<code>\cftbeforesecskip</code>	..... 22065, 22068	<code>\cftsecfillnum</code>	... 22082	<code>\cftsubtabindent</code>	..
<code>\cftbeforesubfigskip</code>	..... 22191	<code>\cftsecfont</code>	..... 22081	..... 22212, 22215	
<code>\cftbeforesubparaskip</code>	..... 22137	<code>\cftsecindent</code>	22070, 22073	<code>\cftsubtabnumwidth</code>	22218
<code>\cftbeforesubsecskip</code>	..... 22086	<code>\cftsecnumwidth</code>	.. 22076	<code>\cftsubtabpresnum</code>	22219
<code>\cftbeforesubsubsecskip</code>	..... 22103	<code>\cftsecpresnum</code>	... 22077	<code>\cfttabaftersnum</code>	22181
<code>\cftbeforesubtabskip</code>	..... 22211	<code>\cftsubfigaftersnum</code>	..... 22200	<code>\cfttabaftersnumb</code>	22182
<code>\cftbeforetabskip</code>	22172	<code>\cftsubfigaftersnumb</code>	..... 22201	<code>\cfttabfillnum</code>	... 22185
<code>\cftchapaftersnum</code>	22055	<code>\cftsubfigfillnum</code>	22204	<code>\cfttabfont</code>	..... 22184
<code>\cftchapaftersnumb</code>	22056	<code>\cftsubfigfont</code>	... 22203	<code>\cfttabindent</code>	22173, 22176
<code>\cftchapfillnum</code>	.. 22059	<code>\cftsubfigindent</code>	..	<code>\cfttabnumwidth</code>	.. 22179
<code>\cftchapfont</code>	..... 22058	..... 22192, 22195		<code>\cfttabpresnum</code>	... 22180
<code>\cftchapindent</code>	..... 22047, 22050, 22297	<code>\cftsubfignumwidth</code>	22198	<code>\chapnumfont</code>	..... 18125
<code>\cftchapnumwidth</code>	..... 22053, 22298	<code>\cftsubfigpresnum</code>	22199	<code>\chapter</code>	..... 7838,
<code>\cftchappresnum</code>	.. 22054	<code>\cftsubparaaftersnum</code>	..... 22146	7866, 7936, 7944,	
<code>\cftchapterprecistoc</code>	..... 22296	<code>\cftsubparaaftersnumb</code>	..... 22147	8060, 8066, 8784,	
<code>\cftdot</code>	..... 21994	<code>\cftsubparafillnum</code>	22150	8972, 9281, 11114,	
<code>\cftdotfill</code>	..... 22288	<code>\cftsubparafont</code>	.. 22149	12951, 18341,	
<code>\cftdotsep</code>	..... 22287	<code>\cftsubparaindent</code>	..... 22138, 22141	18735, 18929, 19132	
<code>\cftfigaftersnum</code>	22163	<code>\cftsubparanumwidth</code>	..... 22144	<code>\chapterheadendvskip</code>	..... 18131
<code>\cftfigaftersnumb</code>	22164	<code>\cftsubparapresnum</code>	22145	<code>\chapterheadstartvskip</code>	..... 18123
<code>\cftfigfillnum</code>	... 22167	<code>\cftsubsecaftersnum</code>	..... 22095	<code>\chaptermark</code>	.. 8323, 21957
<code>\cftfigfont</code>	..... 22166	<code>\cftsubsecaftersnumb</code>	..... 22096	<code>\chaptername</code>	.. 308, 16888
<code>\cftfigindent</code>	22155, 22158	<code>\cftsubsecfillnum</code>	22099	<code>\chapterstyle</code>	... 16883
<code>\cftfignumwidth</code>	.. 22161	<code>\cftsubsecfont</code>	... 22098	<code>\char</code>	3858, 4132, 4133, 5752
<code>\cftfigpresnum</code>	... 22162	<code>\cftsubsecindent</code>	..	<code>\chardef</code>	..... 5751,
<code>\cftparaaftersnum</code>	22129	..... 22087, 22090		13821, 15616,	
<code>\cftparaaftersnumb</code>	22130	<code>\cftsubsecnumwidth</code>	22093	15617, 15623, 15624	
<code>\cftparafillnum</code>	.. 22133	<code>\cftsubsecpresnum</code>	22094	<code>\check@floats</code>	... 10040
<code>\cftparafont</code>	..... 22132	<code>\cftsubsubsecaftersnum</code>	..... 22112	<code>\CheckCommand</code>	14851, 14889
<code>\cftparaindent</code>	..... 22121, 22124	<code>\cftsubsubsecaftersnumb</code>	..... 22113	<code>\checkoddpage</code>	..... 6818
<code>\cftparanumwidth</code>	.. 22127	<code>\cftsubsubsecfillnum</code>	..... 22116	<code>\CIIIAAny</code>	..... 4150
<code>\cftparapresnum</code>	.. 22128	<code>\cftsubsubsecfont</code>	22115	<code>\ciiiiAny</code>	..... 4158
<code>\cftpartaftersnum</code>	22024	<code>\cftsubsubsecindent</code>	..... 22104, 22107	<code>\circle</code>	9504, 9507, 9514,
<code>\cftpartaftersnumb</code>	22025	<code>\cftsubsubsecnumwidth</code>	..... 22110	9517, 9527, 9530,	
<code>\cftpartfillnum</code>	.. 22028	<code>\cftsubsubsecpresnum</code>	..... 22111	9537, 9540, 9550,	
<code>\cftpartfont</code>	..... 22027	..... 22111		9553, 9560, 9563,	
<code>\cftpartindent</code>	..... 22016, 22019			9573, 9576, 9583, 9586	
<code>\cftpartnumwidth</code>	.. 22022			<code>\cite</code>	..... 7500,
				7592, 7598, 7599,	
				7693, 7698, 7719,	
				7727, 7748, 7756,	
				7777, 7795, 7799,	
				7804, 7808, 7813,	
				7817, 17577, 17578	
				<code>\citeasnoun</code>	..... 17578
				<code>\citeN</code>	..... 17577



\cites . . . . . 7593	15334, 17574,	11686, 11698,
\cl@ckpt . . . . . 21698	18353, 18747,	11709, 11746,
\ClassInfo . . . . 8280,	18942, 18943,	11756, 11766,
8345, 19327,	19145, 19146,	11792, 11805,
19730, 19739,	19685, 20446,	11817, 11855,
19913, 20066,	21211, 21931, 21932	11865, 11875,
20491, 20500,	\coffeeFont . . . . . 17244	11901, 11914,
20675, 20839,	\col@number . 132, 137,	11926, 11964,
21256, 21265, 21440	139, 142, 143, 150,	11974, 11984,
\ClassWarning . 19500,	459, 810, 1062,	12010, 12023,
19507, 19529,	1312, 9153, 10912,	12035, 12073,
19535, 19542,	11009, 13012,	12083, 12093,
19803, 20240,	16846, 17186,	12119, 12132,
20247, 20269,	17268, 17273,	12144, 12182,
20275, 20282,	17347, 17348,	12192, 12202,
20564, 21013,	17350, 17353,	12228, 12241,
21020, 21042,	17354, 17361,	12253, 12291,
21048, 21055, 21329	17411, 17412,	12301, 12311,
\ClassWarningNoLine	17415, 17416,	12337, 12350,
. . . . . 16939	17478, 17482,	12362, 12400,
\clear . . . . . 6597	18446, 18587,	12410, 12420,
\cleardoubleemptypage	18831, 19013,	12446, 12459,
. 19520, 20260, 21033	19555, 20295, 21068	12471, 12667,
\cleardoublepage . .	\col@sep 379, 407, 9405,	12679, 12691,
. . . . 8202, 8247,	9406, 16042, 23737	12728, 12742,
8249, 8306, 8319,	\color . . . . 1532, 1535,	12756, 12839,
8333, 9275, 11108	1572, 1604, 1627,	12852, 13569,
\clearpage . 604, 620,	1648, 1669, 1693,	13586, 13602,
869, 1121, 5640,	1793, 1795, 1834,	13629, 13643,
5641, 5645, 5646,	2450, 2455, 2466,	13657, 13669,
6556, 6557, 6560,	3154, 4089, 4090,	14157, 14167,
7202, 8214, 8249,	4091, 4092, 4093,	14174, 16093,
8335, 8716, 8893,	4565, 9450, 9453,	16177, 24132,
9103, 9277, 11110,	9456, 9474, 9477,	24148, 24159, 24167
18250, 18505,	10140, 10143,	\color@block . 9447, 23528
18964, 19522,	10153, 10271,	\color@box . . 9480, 23620
20262, 21035, 21991	15473, 16203, 23530	\color@endbox . . 4399,
\clip . . . . . 2945, 2968	\color@ . . . . 23570, 23617	7322, 7366, 7410,
\clipbox@@ . . . . . 18111	\color@b@x . . . . .	19248, 19258,
\CloneTOCEntryStyle	9442, 9480, 9482,	19276, 24212,
. . . . . 19919,	23523, 23620, 23623	24256, 24377, 24393
19932, 19950,	\color@begingroup .	\color@endgroup 1890,
19959, 20681,	1860, 2152, 2169,	2155, 2172, 2189,
20694, 20713,	2186, 2202, 2218,	2205, 2221, 2237,
20722, 21446,	2234, 7648, 7666,	7652, 7670, 7688,
21459, 21478, 21487	7684, 8686, 8700,	8688, 11245,
\closing . . . . . 11148	11243, 11257,	11259, 11273,
\clubpenalty . 92, 295,	11271, 11283,	11285, 11296,
583, 584, 717, 980,	11294, 11305,	11307, 11414,
1230, 2403, 2404,	11411, 11534,	11472, 11536,
4642, 8534, 8796,	11544, 11554,	11546, 11556,
8984, 9294, 9295,	11580, 11593,	11582, 11595,
10855, 11127,	11605, 11643,	11607, 11645,
11128, 12963,	11652, 11661,	11654, 11663,



11688,	11700,	\columnsep . . . . . 99,	12141,	12225,
11711,	11748,	219, 597, 613, 862,	12237,	12250,
11758,	11768,	1114, 4038, 4474,	12334,	12346,
11794,	11807,	8709, 8886, 9096,	12359,	12443,
11819,	11857,	9669, 9968, 13142,	12455,	12468,
11867,	11877,	14066, 15342,	12582,	12644,
11903,	11916,	17066, 17183,	12724,	12738,
11928,	11966,	17276, 17322,	12752,	12944,
11976,	11986,	18243, 18498,	12948,	13133,
12012,	12025,	18957, 23485,	13135,	13139,
12037,	12075,	23490, 23494,	13143,	13171,
12085,	12095,	23500, 23503, 24063	13177,	13475,
12121,	12134,	\columnseprule . . 99,	13478,	13480,
12146,	12184,	219, 596, 612,	13565,	13582,
12194,	12204,	861, 1113, 4039,	13598,	13625,
12230,	12243,	4475, 8708, 8885,	13639,	13653,
12255,	12293,	9095, 9660, 9725,	13671,	13952,
12303,	12313,	9957, 9976, 13134,	13959,	14006,
12339,	12352,	13175, 14010,	14012,	14055,
12364,	12402,	14057, 15342,	14059,	14063,
12412,	12422,	17056, 17158,	14067,	14419,
12448,	12461,	17301, 17312,	14420,	15356,
12473,	12669,	18242, 18497,	15430,	15434,
12681,	12693,	18956, 24054, 24103	16180,	17054,
12730,	12744,	\columnseprulecolor	17058,	17062,
12758,	12843,	. . . . . 17300, 17311	17065,	17154,
12856,	13572,	\columnwidth . . . . . 28,	17160,	17183,
13589,	13605,	41, 55, 71, 232,	17212,	17218,
13632,	13646,	244, 258, 273,	17380,	17384,
13660,	13690,	540, 544, 731, 965,	17388,	17392,
14160,	14170,	1211, 2145, 2162,	18338,	18761,
14177,	24136,	2179, 2198, 2214,	18911,	18915,
24151, 24163, 24170		2230, 3685, 3691,	19093,	19097,
\color@fb@x . 23621, 23622		4389, 8810, 8963,	19377,	19416,
\color@fb@x . . 9481, 23621		9233, 9237, 9345,	19417,	20117,
\color@hbox . . . . .		9658, 9662, 9666,	20156,	20157,
. . 19245, 19255,		9670, 9721, 9727,	20890,	20929,
19273, 24374, 24390		9955, 9959, 9964,	20930,	24052,
\color@setgroup . .		9969, 9971, 9978,	24056,	24060,
. . . . . 9483, 23625		10289, 10310,	24064,	24099,
\color@vbox . . . . .		10862, 10866,	24105, 24295, 24297	
4377, 7313, 7357,		11161, 11165,	\contentslabel . 7897,	
7401, 24203, 24247		11210, 11240,	7904, 7911, 7918, 7925	
\colorA . . 9061, 9070, 9082		11254, 11268,	\contentsline . . . . 14682	
\colorB . . . . . 9067,		11280, 11291,	\contentsmargin . . 21896	
9073, 9079, 9085		11302, 11577,	\contentspush . . . . 21870	
\colorblend . . . 23537,		11589, 11602,	\convertcolorspec .	
23538, 23580, 23581		11683, 11694,	. . . . . 23544,	
\colorbox . . . . . 1913,		11706, 11789,	23547, 23587, 23590	
4205, 4207, 4208		11801, 11814,	\Coord . . . . . 4146	
\colorlet . . . . .		11898, 11910,	\coord . . . . . 4151	
1757, 1762, 1832,		11923, 12007,	\CoordIII . . . . . 4148	
1833, 1862, 1864, 2623		12019, 12032,	\coordiii . . . . . 4153	
\columncolor . . 1466, 9413		12116, 12128,	\Coordn . . . . . 4147	



\coordn . . . . . 4152	17297, 17299,	4764, 4765, 4792,
\Coordx . . . . . 4143,	17316, 17317,	4819, 4823, 4834,
4146, 4147, 4148,	17320, 17675,	4842, 4850, 4858,
4149, 4150, 4151,	17683, 17696, 21737	4860, 4862, 4866,
4152, 4153, 4157, 4158	\counterwithout 16884,	4867, 4931, 4973,
\coordx . . . . . 4154	16885, 16886, 16887	4983, 4989, 4990,
\Coordy . . . . . 4144,	\coverpagebottommargin	4992, 4993, 4995,
4146, 4147, 4148,	. 19409, 20149, 20922	4996, 4998, 5000,
4149, 4150, 4151,	\coverpageleftmargin	5002, 5004, 5205,
4152, 4153, 4157, 4158	. . 19404, 19405,	5206, 5208, 5209,
\coordy . . . . . 4155	19407, 20144,	5212, 5213, 5222,
\Coordz . . . . . 4145,	20145, 20147,	5223, 5258, 5259,
4148, 4150, 4153, 4158	20917, 20918, 20920	5282, 5337, 5338,
\coordz . . . . . 4156	\coverpagerightmargin	5339, 5340, 5346,
\copy . 1810, 7309, 7353,	. 19407, 20147, 20920	5347, 5348, 5349,
7397, 9349, 9638,	\coverpagetopmargin	5432, 5433, 5436,
9701, 9810, 10300,	. . . . . 19403,	5437, 5502, 5673,
10321, 13116,	19409, 20143,	5674, 5676, 5687,
13152, 13980,	20149, 20916, 20922	5688, 5690, 5701,
14029, 14230,	\cr 395, 8481, 8488, 8544,	5711, 5720, 5721,
14276, 16118,	11499, 11503,	5722, 5723, 5746,
16130, 16134,	11505, 16057,	5770, 5775, 5779,
16988, 17088,	21643, 21681, 23940	5795, 5813, 5815,
17980, 18063,	\crcr . 406, 4271, 8484,	5823, 5825, 5834,
18133, 23723,	21631, 21661,	5835, 5915, 5919,
24032, 24079,	23748, 23751, 23927	5952, 5954, 5965,
24199, 24243, 24306	\CROP@llc . . . . . 9546	5966, 5980, 5988,
\cor@height . . . 17011,	\CROP@lrc . . . . . 9569	5990, 6017, 6038,
17012, 17039,	\CROP@ulc . . . . . 9500	6075, 6076, 6077,
17040, 17079,	\CROP@urc . . . . . 9523	6093, 6094, 6095,
17111, 17112,	\CROP@execopt . . . . 9593	6096, 6198, 6201,
17139, 17140, 17176	\cs . . . . . 16314, 16365,	6205, 6222, 6225,
\count . . . . . 3680,	16383, 16437,	6227, 6237, 6240,
3965, 4372, 6070,	16452, 16740,	6242, 6249, 6254,
7298, 7342, 7386,	16742, 17703, 17704	6259, 6269, 6285,
11485, 11517,	\cs@a . . . . . 5837	6288, 6302, 6314,
11626, 11729,	\csname . . . . 8, 44, 58,	6346, 6357, 6441,
11838, 11947,	74, 166, 168, 203,	6444, 6484, 6533,
12056, 12165,	247, 261, 276, 333,	6673, 6694, 7045,
12274, 12383,	334, 383, 1369,	7046, 7053, 7054,
12542, 12548,	2151, 2168, 2185,	7646, 7664, 7682,
12600, 12606,	2201, 2217, 2233,	7713, 7742, 7771,
13246, 13972,	2266, 2292, 2318,	8013, 8539, 8567,
13981, 13983,	4234, 4235, 4249,	8570, 8573, 8587,
14030, 14032,	4250, 4276, 4279,	8594, 8601, 8609,
14359, 14365,	4282, 4298, 4306,	8610, 8648, 8673,
17411, 17415,	4314, 4369, 4656,	8674, 9456, 9462,
24188, 24232, 24340	4659, 4662, 4664,	9470, 9477, 11242,
\count@ . . . 1406, 1465,	4666, 4669, 4672,	11256, 11270,
4812, 4817, 6644,	4680, 4681, 4686,	11282, 11293,
6645, 6647, 9411,	4693, 4695, 4697,	11304, 11533,
17263, 17264,	4698, 4699, 4700,	11543, 11553,
17266, 17268,	4703, 4705, 4709,	11579, 11592,
17275, 17296,	4711, 4740, 4741,	11604, 11642,



11651,	11660,	19924,	19926,	23116,	23121,
11685,	11697,	19929,	19935,	23125,	23136,
11708,	11745,	19943,	19945,	23137,	23141,
11755,	11765,	19947,	19953,	23147,	23202,
11791,	11804,	19955,	20028,	23203,	23207,
11816,	11854,	20032,	20036,	23303,	23304,
11864,	11874,	20120,	20344,	23306,	23309,
11900,	11913,	20684,	20686,	23310,	23314,
11925,	11963,	20688,	20691,	23778,	23843,
11973,	11983,	20697,	20705,	23929,	23990,
12009,	12022,	20707,	20710,	24003, 24005, 24475	
12034,	12072,	20716,	20718,	\CT@do@color . . . . .	9408
12082,	12092,	20801,	20805,	\CT@cell@color	1490, 9433
12118,	12131,	20809,	20893,	\CT@color . . . . .	9407
12143,	12181,	21117,	21449,	\CT@column@color . .	
12191,	12201,	21451,	21453,	. . . . .	1488, 9431
12227,	12240,	21456,	21462,	\CT@do@color . . . . .	
12252,	12290,	21470,	21472,	. . .	1491, 9408, 9434
12300,	12310,	21475,	21481,	\CT@extract . . .	1466, 9413
12336,	12349,	21483,	21633,	\CT@row@color .	1489, 9432
12361,	12399,	21659,	21661,	\CT@setup . . . . .	1455,
12409,	12419,	21693,	21715,	1456, 1458, 1459,	
12445,	12458,	21717,	21733,	1463, 1487, 9404, 9430	
12470,	12665,	21734,	21754,	\cumpartcl . . . . .	17884
12677,	12689,	21761,	21974,	\cumtcl . . . . .	17884
12726,	12740,	22237,	22238,	\curraddr . . . . .	322
12754,	13071,	22254,	22255,	\current@color . . . .	
13224,	13225,	22256,	22263,	. . . . .	9449, 9455,
13230,	13231,	22265,	22266,	9462, 9470, 9476,	
13336,	13337,	22319,	22320,	13799, 13804,	
13338,	13339,	22478,	22479,	23529, 23566,	
13341,	13343,	22583,	22608,	23567, 23571,	
13344,	13345,	22635,	22639,	23600, 23601, 23618	
13346,	13348,	22643,	22700,	\CurrentOption . . . .	
13349,	13350,	22752,	22755,	8261, 8262, 8263,	
13407,	13431,	22769,	22785,	8264, 8265, 8285,	
13449,	13535,	22786,	22802,	8286, 8287, 8288,	
13544,	13567,	22809,	22814,	8289, 10086, 10184	
13584,	13600,	22832,	22833,	\currentposxwidth .	5202
13628,	13642,	22845,	22846,	\currentposyheight	5219
13656,	13703,	22901,	22956,	\CustomFBox . . . . .	13801
13718,	14684,	22958,	22960,	\cuted@column@badness	
14687,	14689,	22976,	22979,	. . . . .	9833,
14693,	14697,	22985,	22987,	9834, 9847, 9858	
14711,	14722,	22990,	22994,	\cuted@page@rule .	
14733,	14933,	22999,	23003,	. . . . .	9913, 9914
14964,	14995,	23007,	23021,	\cuted@tempbox@a .	
15374,	15477,	23025,	23028,	. . . . .	9774,
15480,	15910,	23032,	23037,	9784, 9811, 9813,	
15976,	16968,	23041,	23046,	9814, 9902, 9960, 9972	
16969,	16976,	23048,	23049,	\cuted@tempbox@c .	
19289,	19293,	23052,	23056,	. . . . .	9813, 9814,
19297,	19380,	23102,	23104,	9821, 9822, 9826,	
19604,	19922,	23111,	23112,	9827, 9842, 9846,	



9856, 9872, 9890, 9901, 9904, 9906, 9907	\d@llarend . . . . .	21489, 21497, 21508, 21517, 21527, 21537, 21548
\cuted@tempbox@var . . . 9952, 9990, 10002	. . 380, 408, 1410, 1411, 1412, 1477, 1478, 1479, 9420, 9421, 9422, 23738	\DeclareTOCEntryStyle . 22304, 22465, 22715
\cuted@tempdim@a . . . . . 9842, 9844, 9846, 9848, 9851, 9852, 9853, 9903, 9915, 9921, 9933, 9937, 9943, 10040, 10041, 10042, 10046	\dashgapcolor . . . . . 1470	\dedication . . . . .
\cuted@tempdim@b . . . . . 9806, 9809, 9811, 9814, 9818, 9830, 9848, 9872, 9880, 9886, 9893, 9902, 9904, 9929, 9932, 9934	\date . . . 447, 483, 787, 832, 1039, 1084, 1289, 1334, 4073, 8127, 8175, 8875, 9052, 9141, 9177, 10900, 10934, 10997, 11033, 13000, 13034, 18423, 18468, 18564, 18611, 18814, 18855, 19001, 19037, 19632, 20372, 21145	. 19631, 20371, 21144
\cuted@tempdim@spread . . . . . 9821, 9822, 9823, 9824, 9831, 9835, 9838, 9841, 9842, 9844, 9849, 9860, 9870, 9873, 9878, 9881, 9885, 9889, 9906, 9908, 9910	\deadcycles . . . 5657, 5660	\dedicatory . . . . . 323
\cuted@varbox@a 9810, 9811, 9817, 9818, 9846, 9852, 9855, 9863, 9932, 9965, 9979	\debugfootnotedirection . . . . . 13394	\def . . . . . 2, 23, 26, 30, 34, 48, 64, 95, 98, 107, 108, 109, 110, 122, 132, 133, 135, 197, 218, 227, 228, 229, 230, 234, 237, 251, 266, 298, 301, 313, 319, 336, 345, 350, 352, 377, 382, 384, 405, 406, 407, 408, 454, 455, 486, 550, 587, 719, 742, 743, 751, 790, 791, 793, 798, 800, 805, 807, 835, 982, 994, 995, 1003, 1042, 1043, 1045, 1050, 1052, 1057, 1058, 1087, 1232, 1244, 1245, 1253, 1292, 1293, 1295, 1300, 1302, 1307, 1309, 1337, 1357, 1367, 1368, 1371, 1377, 1405, 1418, 1419, 1422, 1435, 1443, 1451, 1452, 1455, 1456, 1459, 1464, 1846, 1859, 1968, 1969, 2045, 2056, 2065, 2072, 2074, 2086, 2095, 2104, 2105, 2107, 2117, 2126, 2127, 2130, 2131, 2132, 2135, 2136, 2137, 2253, 2254, 2255, 2260, 2264, 2279, 2280, 2281, 2286, 2290, 2305, 2306, 2307, 2312, 2316, 2327, 2338, 2347, 2358, 2372, 2407, 2413, 2909, 2911, 3167, 3570, 3571, 3672, 3674, 3675,
\cuted@varbox@c 9817, 9818, 9823, 9824, 9828, 9829, 9852, 9855, 9859, 9862, 9863, 9864, 9866, 9891	\DeclareOption . . . . . 4404, 4407, 4410, 4413, 4416, 4419, 4422, 4427, 4428, 4429, 4430, 4431, 4433, 6723, 6725, 6727, 6730, 6735, 7832, 7833, 8091, 8092, 8117, 8118, 8261, 8262, 8263, 8264, 8265, 8285, 8286, 8287, 8288, 8289, 10076, 10078, 10080, 10082, 10084, 10085, 10174, 10176, 10178, 10180, 10182, 10183	
\cuted@wlog@debug . . . . . 9825, 9851, 9853, 9862, 9866	\DeclareRobustCommand . . . . . 4131, 4132, 4133, 4134, 4135, 4136, 4137, 7058, 7065, 9450, 9465, 23530, 23573	
\cvcomputer . . . . . 4597	\DeclareSectionCommand . . . . . 19961, 19971, 19979, 19989, 19999, 20010, 20724, 20732, 20743, 20752, 20762, 20772, 20783,	
\cvdoubleitem . 4574, 4598		
\cventry . . . . . 4586		
\cvlanguage . . . . . 4595		
\cvline 4569, 4570, 4575, 4579, 4581, 4587, 4596		
\cvlistdoubleitem . 4580		
\cvlistitem . . . . . 4578		
\cvtheme . . . . . 4512, 4515		
<b>D</b>		
\d . . . . . 16284		
\d@llarbegin . . . . .		
. . 379, 408, 1410, 1411, 1412, 1475, 1478, 1479, 9418, 9421, 9422, 23737		



3718, 3721, 3724,  
3727, 3796, 3800,  
3896, 3898, 3931,  
3948, 3956, 3957,  
3958, 3959, 3960,  
3966, 3967, 3974,  
3990, 3991, 3992,  
3995, 3998, 4002,  
4013, 4014, 4017,  
4026, 4031, 4056,  
4057, 4139, 4140,  
4141, 4143, 4144,  
4145, 4146, 4147,  
4148, 4149, 4150,  
4151, 4152, 4153,  
4154, 4155, 4156,  
4157, 4158, 4163,  
4174, 4205, 4206,  
4207, 4208, 4215,  
4221, 4227, 4235,  
4240, 4242, 4250,  
4255, 4256, 4271,  
4275, 4278, 4281,  
4286, 4289, 4292,  
4296, 4304, 4312,  
4319, 4321, 4322,  
4324, 4393, 4487,  
4488, 4489, 4490,  
4491, 4492, 4494,  
4495, 4513, 4514,  
4517, 4518, 4519,  
4520, 4521, 4522,  
4523, 4524, 4525,  
4526, 4527, 4528,  
4529, 4645, 4714,  
4734, 4735, 4738,  
4744, 4747, 4758,  
4759, 4762, 4768,  
4771, 4782, 4784,  
4787, 4791, 4797,  
4805, 4806, 4807,  
4808, 4809, 4810,  
4811, 4818, 4819,  
4823, 4828, 4836,  
4844, 4852, 4859,  
4861, 4961, 4969,  
4990, 4998, 5005,  
5006, 5012, 5014,  
5015, 5016, 5018,  
5237, 5239, 5241,  
5247, 5251, 5254,  
5263, 5274, 5276,  
5277, 5288, 5361,  
5380, 5412, 5413,

5414, 5425, 5439,  
5442, 5443, 5455,  
5467, 5471, 5474,  
5487, 5496, 5527,  
5555, 5558, 5559,  
5567, 5568, 5604,  
5619, 5646, 5663,  
5720, 5721, 5722,  
5723, 5732, 5752,  
5761, 5768, 5775,  
5779, 5784, 5789,  
5794, 5796, 5799,  
5802, 5810, 5811,  
5813, 5815, 5816,  
5823, 5825, 5826,  
5833, 5834, 5835,  
5836, 5837, 5841,  
5842, 5844, 5845,  
5847, 5853, 5859,  
5877, 5878, 5883,  
5888, 5893, 5899,  
5904, 5915, 5919,  
5925, 5928, 5942,  
5944, 5946, 5947,  
5949, 5950, 5951,  
5953, 5955, 5957,  
5959, 5960, 5965,  
5966, 5967, 5968,  
5969, 5974, 5975,  
5982, 5984, 5987,  
5992, 5994, 6000,  
6001, 6002, 6003,  
6007, 6010, 6012,  
6013, 6017, 6019,  
6020, 6023, 6033,  
6075, 6076, 6077,  
6080, 6090, 6097,  
6099, 6104, 6116,  
6123, 6125, 6129,  
6130, 6137, 6139,  
6142, 6147, 6154,  
6156, 6223, 6226,  
6235, 6238, 6390,  
6401, 6440, 6553,  
6563, 6576, 6630,  
6640, 6642, 6647,  
6652, 6658, 6659,  
6662, 6669, 6677,  
6692, 6765, 6856,  
6877, 6881, 6894,  
6974, 7043, 7061,  
7067, 7104, 7229,  
7231, 7232, 7233,  
7242, 7244, 7245,

7246, 7250, 7252,  
7258, 7259, 7286,  
7300, 7303, 7307,  
7311, 7324, 7330,  
7344, 7347, 7351,  
7355, 7368, 7374,  
7388, 7391, 7395,  
7399, 7412, 7464,  
7479, 7484, 7610,  
7612, 7640, 7658,  
7676, 7697, 7726,  
7755, 7975, 8012,  
8020, 8249, 8387,  
8388, 8390, 8408,  
8409, 8412, 8422,  
8423, 8424, 8425,  
8431, 8434, 8445,  
8446, 8447, 8457,  
8483, 8487, 8494,  
8516, 8535, 8536,  
8537, 8543, 8566,  
8569, 8572, 8576,  
8579, 8582, 8585,  
8592, 8599, 8609,  
8610, 8611, 8621,  
8625, 8628, 8633,  
8634, 8635, 8637,  
8646, 8652, 8673,  
8674, 8798, 8830,  
8831, 8839, 8986,  
9007, 9008, 9016,  
9056, 9076, 9148,  
9149, 9180, 9251,  
9265, 9298, 9302,  
9314, 9327, 9334,  
9338, 9341, 9404,  
9407, 9410, 9442,  
9449, 9452, 9459,  
9467, 9473, 9480,  
9481, 9483, 9597,  
9610, 9613, 9614,  
9619, 9626, 9631,  
9635, 9698, 9757,  
9759, 9761, 10283,  
10287, 10290,  
10308, 10311,  
10329, 10386,  
10563, 10627,  
10654, 10656,  
10661, 10692,  
10693, 10766,  
10815, 10834,  
10857, 10907,  
10908, 10937,



11004,	11005,	12965,	13007,	14946,	14954,
11036,	11083,	13008,	13037,	14960,	14977,
11098,	11131,	13068,	13100,	14985,	14991,
11209,	11236,	13106,	13113,	15008,	15016,
11250,	11264,	13149,	13223,	15024,	15038,
11278,	11289,	13234,	13282,	15042,	15056,
11300,	11329,	13386,	13473,	15064,	15071,
11330,	11331,	13477,	13479,	15079,	15082,
11339,	11340,	13481,	13483,	15085,	15119,
11341,	11458,	13485,	13487,	15151,	15180,
11529,	11539,	13488,	13490,	15207,	15210,
11549,	11575,	13494,	13503,	15212,	15215,
11587,	11600,	13505,	13512,	15224,	15225,
11611,	11616,	13513,	13530,	15229,	15231,
11638,	11647,	13533,	13539,	15232,	15233,
11656,	11681,	13542,	13550,	15235,	15244,
11692,	11704,	13551,	13552,	15246,	15337,
11714,	11719,	13558,	13575,	15341,	15350,
11741,	11751,	13591,	13619,	15351,	15352,
11761,	11787,	13633,	13647,	15354,	15358,
11799,	11812,	13661,	13667,	15360,	15365,
11823,	11828,	13673,	13680,	15368,	15389,
11850,	11860,	13693,	13697,	15401,	15437,
11870,	11896,	13701,	13707,	15438,	15456,
11908,	11921,	13712,	13716,	15473,	15475,
11932,	11937,	13795,	13809,	15476,	15483,
11959,	11969,	13811,	13813,	15488,	15498,
11979,	12005,	13815,	13823,	15547,	15549,
12017,	12030,	13928,	13938,	15649,	15665,
12041,	12046,	13969,	13977,	15666,	15698,
12068,	12078,	14026,	14079,	15699,	15703,
12088,	12114,	14115,	14203,	15705,	16011,
12126,	12139,	14211,	14217,	16023,	16027,
12150,	12155,	14226,	14228,	16028,	16029,
12177,	12187,	14244,	14255,	16036,	16064,
12197,	12223,	14256,	14258,	16092,	16100,
12235,	12248,	14271,	14272,	16103,	16108,
12259,	12264,	14274,	14290,	16147,	16154,
12286,	12296,	14292,	14295,	16164,	16172,
12306,	12332,	14297,	14298,	16238,	16239,
12344,	12357,	14313,	14320,	16842,	16844,
12368,	12373,	14380,	14381,	16894,	16896,
12395,	12405,	14382,	14383,	16944,	16955,
12415,	12441,	14392,	14394,	16966,	16985,
12453,	12466,	14430,	14682,	17085,	17182,
12477,	12482,	14709,	14720,	17190,	17223,
12532,	12564,	14731,	14742,	17235,	17247,
12626,	12661,	14752,	14763,	17261,	17294,
12673,	12685,	14774,	14785,	17308,	17343,
12716,	12735,	14800,	14815,	17347,	17378,
12749,	12767,	14832,	14858,	17382,	17386,
12777,	12786,	14875,	14883,	17390,	17394,
12795,	12887,	14896,	14913,	17396,	17402,
12922,	12934,	14921,	14929,	17406,	17410,



17414,	17418,	19382,	19636,	23712,	23713,
17420,	17582,	19637,	19689,	23715,	23717,
17596,	17598,	19696,	19722,	23719,	23720,
17605,	17611,	19885,	19902,	23733,	23735,
17691,	17743,	19904,	20040,	23740,	23742,
17747,	17751,	20070,	20072,	23748,	23750,
17753,	17769,	20102,	20122,	23757,	23759,
17781,	17795,	20376,	20450,	23762,	23764,
17845,	17851,	20457,	20483,	23765,	23766,
17858,	17977,	20647,	20664,	23767,	23769,
17978,	17980,	20666,	20813,	23779,	23816,
17981,	17987,	20843,	20845,	23882,	23892,
17988,	17989,	20875,	20895,	23895,	23898,
17999,	18009,	21149,	21215,	23903,	23904,
18017,	18025,	21222,	21248,	23905,	23906,
18026,	18027,	21412,	21429,	23907,	23909,
18028,	18029,	21431,	21566,	23912,	23922,
18030,	18035,	21570,	21587,	23927,	23930,
18036,	18039,	21608,	21611,	23950,	23953,
18041,	18042,	21626,	21631,	23963,	23964,
18043,	18044,	21634,	21657,	23965,	23966,
18046,	18047,	21661,	21665,	23967,	23987,
18060,	18066,	21675,	21691,	23989,	24022,
18073,	18074,	21697,	21705,	24029,	24076,
18075,	18076,	21726,	21735,	24176,	24190,
18077,	18079,	21736,	21752,	24193,	24197,
18080,	18186,	21756,	21759,	24201,	24214,
18207,	18213,	21763,	21766,	24220,	24234,
18233,	18234,	21796,	21841,	24237,	24241,
18355,	18378,	21875,	21897,	24245,	24258,
18379,	18387,	21903,	21906,	24264,	24304,
18426,	18427,	21908,	21911,	24308,	24309,
18429,	18434,	21935,	22638,	24310,	24311,
18436,	18441,	22662,	23269,	24321,	24407,
18443,	18471,	23290,	23292,	24419,	24420,
18517,	18518,	23448,	23491,	24422,	24545,
18526,	18567,	23494,	23500,	24547,	24551,
18568,	18570,	23504,	23523,	24553,	24608, 24610
18575,	18577,	23529,	23532,	\default@color 9449, 23529	
18582,	18584,	23554,	23563,	\DefaultFindent .. 15445	
18614,	18636,	23569,	23575,	\DefaultLhang .... 15441	
18749,	18778,	23597,	23603,	\DefaultLoversize 15442	
18780,	18821,	23612,	23616,	\DefaultLraise ... 15443	
18823,	18858,	23620,	23621,	\DefaultNindent .. 15446	
18946,	19008,	23622,	23625,	\DefaultOptionsFile	
19009,	19040,	23630,	23636,	. 15465, 15468, 15471	
19111,	19123,	23637,	23638,	\DefaultSlope .... 15447	
19149,	19153,	23648,	23658,	\defbeamertemplate	
19196,	19243,	23667,	23678,	..... 1526,	
19246,	19253,	23679,	23688,	1540, 1543, 1562,	
19256,	19264,	23689,	23698,	1580, 1585, 1592,	
19271,	19274,	23699,	23704,	1615, 1636, 1657,	
19301,	19331,	23705,	23708,	1684, 1702, 1708,	
19333,	19362,	23710,	23711,	1721, 1730, 1739,	



2490, 2493, 2511, 2512, 2513, 2517, 2524, 2531, 2540, 2559, 2574, 2589, 2606, 2621, 2700, 2704, 2731, 2740, 2743, 2752, 2755, 2764, 2792, 2923, 2995, 3021, 3072, 3108, 3138, 3186, 3220, 3256, 3312, 3351, 3400, 3447, 3493	22746, 22762, 22764 \DefineTOCEntryListOption ..... 22722 \DefineTOCEntryOption ..... 22748 \DefNewDummy .. 5859, 5876 \delimiter ..... 13792 \DEPTH ..... 21799, 21806 \depth ..... 14220, 16785, 16792, 16817 \depthof ..... 10634, 10639, 10648, 10649, 10653, 10658 \descriptionlabel . 8053 \DetectColumn 23993, 23997 \detokenize .... 4967, 4969, 5412, 5414, 5415, 5442, 5457, 5474, 5477, 5485, 5487, 5558, 5559, 6436 \dfn@afteroutput .. ..... 10378, 10381, 10430, 10433 \dfn@boxa .... 10287, 10292, 10295, 10299, 10300, 10301, 10308, 10313, 10316, 10320, 10321, 10322, 10335, 10342, 10345, 10347, 10354, 10362, 10392, 10399, 10402, 10404, 10408, 10416 \dfn@boxb .... 10301, 10322, 10339, 10340, 10347, 10352, 10396, 10397, 10404, 10407 \dfn@countins 10331, 10388 \dfn@dim ..... 10292, 10293, 10294, 10305, 10313, 10314, 10315, 10326, 10330, 10347, 10367, 10387, 10404, 10419 \dfn@dimb .... 10367, 10368, 10370, 10371, 10373, 10419, 10420, 10422, 10423, 10425	\dfn@elt@adjust ... ..... 10367, 10419 \dfn@elt@getht .... ..... 10332, 10389 \dfn@fnht .... 10303, 10324, 10365, 10368, 10374, 10375, 10376, 10417, 10420, 10426, 10427, 10428 \dfn@fnmaxdp .. 10291, 10296, 10301, 10312, 10317, 10322, 10344, 10347, 10401, 10404 \dfn@footnoterule . ..... 10385, 10437 \dfn@footnotetext 10286 \dfn@gobble . 10288, 10309 \dfn@ins ..... 10296, 10297, 10298, 10300, 10317, 10318, 10319, 10321, 10335, 10336, 10392, 10393 \dfn@latex@footnotetext ..... 10285 \dfn@latex@LTRfootnotetext ..... 10291, 10306 \dfn@latex@makecol ..... 10384, 10436 \dfn@latex@RTLfootnotetext ..... 10312, 10327 \dfn@list .... 10305, 10326, 10333, 10366, 10368, 10371, 10377, 10390, 10418, 10420, 10423, 10429 \dfn@LTRfootnotetext ..... 10287, 10307 \dfn@LTRmakecol ... 10386, 10438, 10440 \dfn@makecol ..... 10438, 10439, 10440 \dfn@makefnmark ... ..... 10290, 10311 \dfn@RTLfootnotetext ..... 10308, 10328 \dfn@RTLmakecol ... 10329, 10438, 10439 \dfn@split ... 10301, 10322, 10335, 10347, 10392, 10404
\deffootnote .. 19299, 19364, 20038, 20104, 20811, 20877 \define@choicekey . 3733, 3739, 3745, 3751, 3757, 3763, 3775, 3781, 3787, 3794, 3808, 3815, 3825, 23323, 23331 \define@key 3717, 3720, 3723, 3726, 23321 \definecolor ..... .... 4080, 4081, 4082, 4083, 4084, 4486, 4493, 10090, 10095, 10098, 10099, 10100, 10102, 10103, 10106, 10107, 10109, 10110, 10113, 10114, 10116, 10117, 10120, 10121, 10123, 10124, 10127, 10128, 10193, 10194, 10199, 10200, 10205, 10206, 10211, 10212, 10217, 10218, 10759 \DefineTOCEntryCommandOption ..... 22726, 22728, 22730, 22734, 22736, 22738, 22740, 22742 \DefineTOCEntryIfOption ..... 22718, 22720, 22724, 22760 \DefineTOCEntryLengthOption .. 22305, 22307, 22466, 22716, 22732, 22744,		



\DFNalwaysdouble . 10441	\diagbox@triple@setbox@NW	\dimen@ii . . . . 13881,
\DFNcolumnsep . . . . .	. . . . . 10463,	13882, 13883,
. 10350, 10363, 10407	10466, 10469, 10484	13889, 13891,
\DFNcolumnwidth . . .	\diagbox@triple@setbox@SE	13894, 13895, 13896
. . 10284, 10289,	. . . . . 10485,	\dimexpr . . . . . 28,
10310, 10349,	10488, 10491, 10508	232, 731, 965,
10351, 10354,	\diagbox@triple@setbox@SW	1211, 2571, 2586,
10364, 10406, 10408	. . . . . 10484	2601, 2845, 2847,
\diagbox@double . . .	\diagbox@wd . . . 10511,	2851, 2853, 4918,
. . . . . 10443, 10446	10514, 10519, 10522	4921, 5208, 5212,
\diagbox@double@pict@NE	\DigitsDotDashInterCharToks	5222, 5231, 8810,
. . . . . 10517, 10524	. . . . . 3857, 3858	8963, 9779, 9841,
\diagbox@double@pict@NW	\dim . . . . 16459, 16460,	9842, 9844, 9870,
. . . . . 10516	16783, 16784, 16785	9879, 9903, 9933,
\diagbox@double@pict@SE	\dimen 3679, 3964, 11422,	15356, 16209,
. . . . . 10509, 10516	11486, 11506,	16218, 17183,
\diagbox@double@pict@SW	11507, 11508,	17392, 18338,
. . . . . 10524	11516, 11625,	18761, 19321,
\diagbox@font . . . . .	11728, 11837,	19367, 19374,
. . 10444, 10447,	11946, 12055,	19377, 19403,
10451, 10453,	12164, 12273,	19404, 19405,
10458, 10460,	12382, 12541,	19406, 19408,
10464, 10467,	12547, 12599,	20060, 20107,
10470, 10474,	12605, 13973,	20114, 20117,
10476, 10480, 10482	17280, 17287,	20143, 20144,
\diagbox@ht . . . 10511,	17288, 17296,	20145, 20146,
10514, 10519, 10522	17297, 17302,	20148, 20833,
\diagbox@insepl 10444,	17303, 17316,	20880, 20887,
10451, 10453,	17317, 17324,	20890, 20916,
10464, 10467,	17325, 24313, 24316	20917, 20918,
10474, 10476,	\dimen@ . . . 9445, 9446,	20919, 20921,
10486, 10496, 10498	12826, 12828,	22452, 22665,
\diagbox@insepr 10447,	13831, 13832,	22673, 22682,
10458, 10460,	13833, 13843,	22684, 23849,
10470, 10480,	13844, 13845,	23851, 23852,
10482, 10489,	13848, 13849,	23853, 23858,
10492, 10503, 10505	13850, 13856,	23860, 23861,
\diagbox@setlinecolor	13866, 13868,	23862, 23867,
. . . . . 10510,	13877, 13879,	23869, 23870,
10513, 10518,	13886, 13887,	23871, 23876,
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\donotcoloroutermaths	21673, 21685,	13338, 13339,
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4550, 4551, 4575, 4577	24285, 24292, 24379	14859, 14890,
\doublerulesepcolor 1469	\dquad . . . . . 9336, 9338	14897, 14930,
\downtovalue . . . 6043,	\draw . . . . . 23342,	14961, 14992,
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155, 159, 167, 175,	2315, 2348, 2389,	7023, 7026, 7029,
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23286,	23291,	24143,	24154,	4166,	4177,	4178,
23293,	23300,	24165,	24180,	4573,	4575,	4577,
23307,	23338,	24186,	24224,	4579,	4581,	4585,
23345,	23350,	24230,	24268,	4593,	4596,	4646,
23356,	23367,	24270,	24280,	4737,	4745,	4747,
23370,	23381,	24296,	24298,	4748,	4754,	4761,
23388,	23402,	24301,	24305,	4769,	4771,	4772,
23452,	23459,	24314,	24343,	4778,	5671,	5672,
23460,	23462,	24346,	24349,	5693,	5717,	6862,
23470,	23478,	24355,	24376,	6863,	6868,	6871,
23480,	23481,	24392,	24412,	6948,	6949,	6956,
23492,	23496,	24419,	24420,	6957,	6964,	6965,
23501,	23510,	24537,	24545,	6985,	6986,	7024,
23516,	23524,	\em ..... 8053				
23528,	23537,	\email ..... 322,4525				
23556,	23561,	\emailink ..... 7225, 7844, 7900,				
23580,	23605,	. 4607, 10167, 10265				
23610,	23630,	\emailsymbol ..... 7907, 7914, 7921,				
23676,	23677,	. 4485, 10167, 10265				
23704,	23705,	\empty ..... 13744,				
23708,	23712,	13747, 14393, 21569				
23713,	23772,	\EmptyTokenList ... 5966				
23791,	23794,	\end .... 179, 186, 429,				
23799,	23802,	432, 435, 500, 503,				
23805,	23808,	766, 774, 777, 847,				
23811,	23825,	850, 1018, 1026,				
23833,	23838,	1029, 1099, 1102,				
23839,	23840,	1268, 1276, 1279,				
23850,	23851,	1350, 1353, 1358,				
23853,	23859,	1359, 1360, 1536,				
23860,	23862,	1695, 1772, 1809,				
23868,	23869,	1823, 1902, 2095,				
				2127,	2564,	2579,
				2594,	2626,	2635,
				2641,	2657,	2663,
				2669,	2709,	2715,
				2721,	2727,	2806,
				2822,	2861,	2965,
				2985,	3001,	3004,
				3015,	3031,	3038,
				3060,	3061,	3075,
				3078,	3081,	3090,
				3093,	3163,	3177,
				3228,	3235,	3277,
				3286,	3292,	3293,
				3327,	3328,	3329,
				3337,	3347,	3358,
				3375,	3385,	3386,
				3387,	3411,	3412,
				3413,	3423,	3433,
				3443,	3454,	3469,
				3479,	3480,	3481,
				3496,	3505,	3524,
				3543,	3545,	4017,
				4166,	4177,	4178,
				4573,	4575,	4577,
				4579,	4581,	4585,
				4593,	4596,	4646,
				4737,	4745,	4747,
				4748,	4754,	4761,
				4769,	4771,	4772,
				4778,	5671,	5672,
				5693,	5717,	6862,
				6863,	6868,	6871,
				6948,	6949,	6956,
				6957,	6964,	6965,
				6985,	6986,	7024,
				7027,	7030,	7033,
				7040,	7041,	7224,
				7225,	7844,	7900,
				7907,	7914,	7921,
				7928,	7939,	7947,
				8074,	8075,	8211,
				8254,	8276,	8660,
				8854,	8862,	8865,
				9031,	9039,	9042,
				9071,	9083,	9123,
				9126,	9129,	9194,
				9197,	9510,	9520,
				9533,	9543,	9556,
				9566,	9579,	9589,
				10146,	10255,	
				10267,	10275,	
				10680,	10754,	
				10884,	10887,	
				10890,	10949,	



10952,	10979,	..... 1838	6096, 6198, 6201,
10982,	10985,	\endbidi@switch ...	6206, 6222, 6225,
11050,	11053,	... 5872, 5876, 5877	6227, 6237, 6240,
11142,	12984,	\endbidi@tabular@RTLcases	6242, 6249, 6253,
12987,	12990,	. 23740, 23748, 23755	6254, 6259, 6268,
13049,	13052,	\endcsname . 8, 44, 58,	6269, 6285, 6288,
13204,	14450,	74, 166, 168, 203,	6302, 6314, 6346,
14468,	14570,	247, 261, 276, 333,	6357, 6442, 6444,
14586,	14677,	334, 383, 1369,	6482, 6484, 6490,
15422,	16983,	2151, 2168, 2185,	6533, 6673, 6694,
17699,	18402,	2201, 2217, 2233,	7045, 7046, 7053,
18410,	18413,	2266, 2292, 2318,	7054, 7646, 7664,
18483,	18486,	4234, 4235, 4249,	7682, 7713, 7742,
18541,	18549,	4250, 4276, 4279,	7771, 8013, 8539,
18552,	18629,	4282, 4298, 4306,	8567, 8570, 8573,
18632,	18637,	4314, 4369, 4656,	8587, 8594, 8601,
18638,	18639,	4659, 4662, 4664,	8609, 8610, 8648,
18796,	18799,	4667, 4669, 4672,	8673, 8674, 9456,
18802,	18874,	4680, 4681, 4686,	9462, 9470, 9477,
18983,	18986,	4694, 4695, 4697,	11242, 11256,
18989,	19054,	4699, 4701, 4704,	11270, 11282,
19057,	19154,	4705, 4710, 4711,	11293, 11304,
19197,	19383,	4740, 4741, 4764,	11533, 11543,
19451,	19468,	4765, 4792, 4820,	11553, 11579,
19476,	19491,	4824, 4834, 4842,	11592, 11604,
19495,	19523,	4850, 4858, 4860,	11642, 11651,
19660,	20123,	4862, 4866, 4867,	11660, 11685,
20191,	20208,	4924, 4930, 4931,	11697, 11708,
20216,	20231,	4973, 4983, 4989,	11745, 11755,
20235,	20263,	4990, 4992, 4993,	11765, 11791,
20421,	20896,	4995, 4996, 4998,	11804, 11816,
20964,	20981,	5000, 5002, 5004,	11854, 11864,
20989,	21004,	5206, 5207, 5209,	11874, 11900,
21008,	21036,	5210, 5213, 5214,	11913, 11925,
21186,	21722,	5223, 5224, 5258,	11963, 11973,
21918,	23342,	5259, 5281, 5282,	11983, 12009,
23349,	23359,	5337, 5338, 5339,	12022, 12034,
23364,	23377,	5340, 5346, 5347,	12072, 12082,
23384,	23387,	5348, 5349, 5432,	12092, 12118,
23406,	23423,	5433, 5436, 5437,	12131, 12143,
23430, 23436, 23438		5502, 5673, 5674,	12181, 12191,
\end@dblfloat .... 19241		5676, 5687, 5688,	12201, 12227,
\end@float .....		5690, 5701, 5711,	12240, 12252,
.. 6888, 7217, 19192		5720, 5721, 5722,	12290, 12300,
\end@rot@dblfloat . 19196		5723, 5733, 5746,	12310, 12336,
\end@rotfloat .....		5770, 5775, 5779,	12349, 12361,
. 19153, 19194, 19195		5795, 5813, 5815,	12399, 12409,
\endarray ..... 382,		5823, 5825, 5834,	12419, 12445,
406, 1367, 1368,		5835, 5915, 5919,	12458, 12470,
21657, 21661, 23740		5952, 5954, 5965,	12665, 12677,
\endBCmd ..... 4168		5966, 5980, 5988,	12689, 12726,
\endbeamer@putright		5990, 6017, 6038,	12740, 12754,
... 2741, 2753, 2765		6075, 6076, 6077,	13071, 13224,
\endbeamerboxesrounded		6093, 6094, 6095,	13226, 13230,



13232,	13336,	22256,	22263,	396, 470, 522, 536,
13337,	13338,	22265,	22266,	674, 696, 821, 898,
13339,	13341,	22319,	22320,	918, 1073, 1157,
13343,	13344,	22478,	22479,	1180, 1323, 1492,
13345,	13346,	22583,	22608,	2044, 2084, 2268,
13348,	13349,	22635,	22639,	2294, 2320, 4062,
13350,	13407,	22643,	22700,	4300, 4308, 4316,
13431,	13449,	22752,	22755,	4692, 4731, 4750,
13535,	13544,	22769,	22785,	4774, 4982, 5007,
13567,	13584,	22786,	22802,	5362, 5381, 5426,
13600,	13628,	22809,	22814,	5448, 5458, 5475,
13642,	13656,	22832,	22833,	5528, 5601, 5737,
13703,	13718,	22845,	22846,	5943, 5945, 5981,
14684,	14687,	22901,	22956,	5986, 5995, 6153,
14689,	14693,	22958,	22960,	6197, 6221, 6236,
14697,	14711,	22976,	22979,	6307, 6319, 6331,
14722,	14733,	22985,	22987,	6351, 6362, 6373,
14933,	14964,	22990,	22994,	6537, 6636, 6646,
14995,	15374,	22999,	23003,	6686, 7055, 7482,
15477,	15480,	23007,	23021,	7484, 7715, 7744,
15910,	15976,	23025,	23028,	7773, 8150, 8167,
16968,	16969,	23032,	23037,	8183, 8194, 8234,
16976,	17590,	23041,	23046,	8553, 8589, 8596,
17600,	17614,	23048,	23049,	8603, 8661, 8750,
19289,	19293,	23052,	23056,	8773, 8927, 8950,
19297,	19380,	23099,	23100,	9164, 9214, 9229,
19604,	19922,	23102,	23104,	9435, 9695, 9754,
19924,	19926,	23109,	23111,	10592, 10622,
19929,	19935,	23113,	23117,	10800, 10813,
19943,	19945,	23120,	23121,	10923, 11020,
19947,	19953,	23124,	23125,	11069, 12586,
19955,	20028,	23134,	23136,	12648, 12905,
20032,	20036,	23138,	23142,	12920, 13023,
20120,	20344,	23146,	23147,	13147, 13187,
20684,	20686,	23200,	23202,	13271, 13292,
20688,	20691,	23204,	23208,	13537, 13546,
20697,	20705,	23228,	23229,	13705, 13720,
20707,	20710,	23237,	23241,	13806, 13847,
20716,	20718,	23245,	23249,	13878, 14023,
20801,	20805,	23253,	23257,	14076, 14254,
20809,	20893,	23261,	23265,	14269, 14675,
21117,	21449,	23303,	23304,	14713, 14724,
21451,	21453,	23306,	23309,	14735, 14746,
21456,	21462,	23310,	23314,	14847, 14872,
21470,	21472,	23778,	23843,	14910, 14943,
21475,	21481,	23929,	23990,	14974, 15005,
21483,	21633,	24003, 24005, 24475		15234, 15245,
21659,	21661,	\enddocument . . . 5626,		15383, 15406,
21693,	21715,	5632, 5639, 5656		15482, 15506,
21717,	21733,	\endflushleft . 4188, 4196		15689, 16058,
21734,	21754,	\endgraf 16072, 16088,		16859, 16977,
21761,	21974,	19887, 20649, 21414		17077, 17174,
22237,	22238,	\endgroup . . . 17, 127,		17381, 17385,
22254,	22255,	212, 310, 317, 380,		17389, 17777,



17827,	17832,	20464, 21229, 21937	\endRTL 18028, 23689, 23697
17834,	17837,	\endlooprepeat . . . .	\ends@math . . . . . 9333
17842,	18085,	. . . 6080, 6109, 6116	\endsideways . . . . . 19274
18116,	18302,	\endLTR 18026, 23679, 23687	\endsidewaysfigure 19194
18325,	18457,	\endMakeFramed . . . 13820	\endsidewaysstable 19195
18598,	18674,	\endmath . . . . . 9333	\endstabular 21631, 21633
18697,	18842,	\endmdf@lrbox . . . . 16212	\endstrip . . . . . 17190
18889,	18904,	\endminipage . . . . .	\endtabular . 382, 383,
19024,	19074,	. 11458, 13680, 21815	1368, 1369, 4271,
19089,	19395,	\endmodernpoem . . . . 8674	21657, 21659,
19601,	19661,	\endmulticols . . . . 17452	21743, 23927, 23929
19756,	20135,	\endpgfpicture . . . 17795	\endtabularx . . . . .
20341,	20422,	\endpspicture . . . . 18080	. 21694, 21723, 21734
20517,	20908,	\endR . . . . . 181,	\endtcbl@lrbox 21815, 21816
21114,	21187,	336, 348, 382, 406,	\endtcbl@savebox . . 21816
21282,	21736,	1367, 1368, 1485,	\endtcbl@vbox . . . . 21826
21860,	22039,	3077, 4271, 4272,	\endtitlepage . . 631,
22459,	22573,	9341, 9428, 9444,	938, 1190, 8782,
23082,	23210,	9449, 9451, 9483,	8970, 18261, 18711
23520,	23553,	10563, 11499,	\endtraditionalpoem 8610
23596,	23615,	11503, 13222,	\endtrivlist . . . . . 13218
23738,	24073,	14213, 14218,	\endturn . . . . . 19246
24116, 24322, 24332		14275, 14314,	\endwindow . . . . . 17858
\endL . . . . . 183,		14321, 14690,	\enskip . . . . 23195, 23220
1496, 1890, 2741,		14698, 15080,	\enspace 308, 17852, 17854
2753, 2765, 3709,		15116, 15148,	\ensuremath . . . . . 3604
3986, 4618, 9439,		15177, 15203,	\env@RTLcases 23753, 23757
9448, 9449, 9458,		15213, 15216,	\EQ 10627, 10633, 10634,
9464, 9483, 13090,		15413, 15656,	10638, 10639,
13203, 13217,		16066, 16127,	10648, 10649,
13379, 14216,		16130, 16166,	10651, 10653,
14224, 14243,		16257, 16265,	10654, 10656,
14253, 14268,		16456, 16782,	10657, 10658,
14289, 15077,		16946, 16948,	10659, 10661,
15656, 17841,		17856, 17988,	10662, 10663,
17846, 17987,		17996, 18075,	10675, 10678,
18006, 18115,		18076, 18077,	10680, 10682,
19251, 19262,		19247, 19257,	10683, 10685,
19269, 19279,		19266, 19275,	10688, 10690,
21811, 23528,		19769, 20530,	10692, 10693,
23529, 23568,		21295, 21631,	10695, 10696,
23572, 23625,		21632, 21657,	10698, 10701,
23636, 23655,		21663, 21810,	10702, 10703,
24301, 24376, 24392		23525, 23529,	10706, 10709,
\endlist . . . . . 96,		23531, 23625,	10717, 10724,
299, 589, 721, 952,		23637, 23645,	10732, 10739,
984, 1234, 2409,		23748, 23893,	10741, 10744,
8038, 8046, 8051,		23896, 23899,	10748, 10749,
8800, 8988, 9300,		23916, 23927,	10750, 10751,
10859, 11133,		23928, 24301,	10763, 10765, 10766
12967, 15338,		24314, 24316,	\eq@addpunct . . . . . 9338
17585, 18357,		24376, 24392,	\EQ@box . . . . . 9343, 9349
18751, 18948,		24411, 24414, 24422	\eq@group . . . . 9306, 9315
19151, 19703,		\endrotate . . . . . 19256	\eq@GRP@first@dmath 9315



<code>\eq@if</code> . . . 4815, 4816, 4818	18002, 23639,	4398, 4656, 4659,
<code>\eq@isIntertext</code> . . . 9353	23641, 23649, 23651	4662, 4666, 4680,
<code>\eq@prelim</code> . . . 9306, 9323	<code>\everyjob</code> . . . . . 3602,	4692, 4693, 4698,
<code>\eq@setnumber</code> . . . . . 9309	3603, 3929, 3930	4709, 4734, 4736,
<code>\eq@setup@a</code> . . . . . 9311	<code>\everymath</code> . . . . . 346	4740, 4741, 4745,
<code>\eq@startup</code> . . . . . 9312	<code>\everypar</code> . . . . . 520,	4748, 4758, 4760,
<code>\eq@wdCond</code> . . . . . 9330	672, 916, 1155,	4764, 4765, 4769,
<code>\eqnewif</code> . . . . . 3630,	7328, 7372, 7416,	4772, 4792, 4794,
3631, 3636, 3648, 4811	8749, 8926, 9213,	4799, 4819, 4820,
<code>\eqno</code> . . . . . 327, 18071,	11068, 12904,	4823, 4824, 4860,
18073, 24417, 24419	13098, 17982,	4862, 4866, 4870,
<code>\eqnumform</code> . . . . . 9341	17986, 18194,	4872, 4876, 4878,
<code>\eqstyle</code> . . . . . 9308	18301, 18673,	4882, 4884, 4888,
<code>\equal</code> . . . . . 4583,	18888, 19073,	4890, 4894, 4896,
4600, 4604, 4608,	22032, 22036,	4900, 4902, 4906,
6876, 6910, 6921,	22571, 23631,	4908, 4912, 4914,
6953, 6954, 6970,	23635, 23681,	4925, 4927, 4931,
7011, 7269, 7511,	23691, 24218, 24262	4932, 4933, 4935,
7512, 7530, 7531,	<code>\everyvbox</code> . . . . 1371,	4936, 4939, 4943,
7549, 7550, 7581,	1372, 18010,	4945, 4950, 4951,
7582, 10254, 13327	18012, 18018,	4953, 4954, 4957,
<code>\errmessage</code> . . . . .	18020, 23659,	4966, 4973, 4977,
. . . 3676, 3961, 17278	23661, 23668, 23670	4979, 4982, 4983,
<code>\ERROR</code> . . . . . 24014	<code>\ExecuteDoHook</code> 19302,	4984, 4986, 4989,
<code>\escapechar</code> 4720, 4812,	19324, 20041,	4990, 4992, 4993,
4817, 5007, 5762,	20063, 20814, 20836	4995, 4996, 4998,
5767, 5769, 5771, 5784	<code>\ExecuteOptions</code> . . .	5000, 5002, 5004,
<code>\ESO@isMEMOIR</code> . . . . 10568	4434, 6740, 8121,	5008, 5253, 5254,
<code>\ESO@tempdima</code> . 10573,	8123, 10087, 10185	5255, 5256, 5257,
10574, 10575,	<code>\ExecuteOptionsX</code> . . 3832	5259, 5282, 5286,
10577, 10581,	<code>\exhyphenpenalty</code> . .	5337, 5338, 5339,
10583, 10584,	. . . . . 623, 930,	5340, 5346, 5347,
10585, 10590,	1124, 8719, 8896,	5348, 5349, 5432,
10597, 10601,	18253, 18703, 18765	5433, 5447, 5448,
10603, 10607,	<code>\exp</code> . . . . 16333, 16336,	5449, 5451, 5458,
10609, 10613, 10620	16390, 16565, 16619	5459, 5462, 5477,
<code>\ESO@tempdimb</code> . . . . .	<code>\expandafter</code> . . . 166,	5484, 5493, 5502,
. . . 10588, 10590,	359, 383, 753,	5673, 5687, 5701,
10615, 10616,	762, 770, 796, 799,	5711, 5720, 5721,
10617, 10618, 10620	1005, 1014, 1022,	5722, 5723, 5738,
<code>\evenpage</code> . 4023, 4026,	1048, 1051, 1255,	5765, 5766, 5775,
4027, 4028, 4030,	1264, 1272, 1298,	5779, 5834, 5835,
4031, 4032, 4033, 4035	1301, 1369, 1384,	5847, 5848, 5943,
<code>\evensidemargin</code> . . .	1466, 1467, 1468,	5945, 5952, 5954,
. . . 4047, 10601,	1470, 2334, 3000,	5956, 5958, 5959,
10609, 14362,	3607, 3609, 3613,	5960, 5980, 5982,
14367, 14375,	3615, 3619, 3621,	5985, 5988, 5989,
19405, 20145,	4216, 4218, 4222,	5990, 5992, 5995,
20918, 24342, 24350	4224, 4228, 4230,	6000, 6063, 6075,
<code>\everycr</code> . . . . . 16062	4234, 4235, 4243,	6077, 6093, 6094,
<code>\everydisplay</code> . . . . . 9303	4245, 4249, 4250,	6095, 6096, 6134,
<code>\everyhbox</code> . . . 17990,	4274, 4277, 4280,	6145, 6150, 6164,
17992, 18000,	4283, 4287, 4290,	6197, 6198, 6199,
	4293, 4344, 4345,	6202, 6205, 6221,



6222, 6236, 6237,  
6249, 6254, 6259,  
6269, 6285, 6288,  
6314, 6357, 6419,  
6428, 6440, 6442,  
6443, 6483, 6493,  
6494, 6515, 6532,  
6543, 6545, 6672,  
6673, 7472, 8013,  
8443, 8568, 8571,  
8574, 8577, 8580,  
8583, 8609, 8610,  
8673, 8674, 8688,  
8841, 8850, 8858,  
9018, 9027, 9035,  
9303, 9413, 9455,  
9476, 9643, 9645,  
9706, 9708, 11474,  
13120, 13122,  
13156, 13158,  
13224, 13225,  
13230, 13231,  
13328, 13345,  
13350, 13409,  
13412, 13433,  
13436, 13449,  
13463, 13464,  
13465, 13466,  
13468, 13692,  
13847, 13869,  
13870, 13878,  
13989, 13991,  
14038, 14040,  
14259, 14297,  
14298, 14715,  
14717, 14726,  
14728, 14737,  
14739, 14842,  
14856, 14870,  
14894, 14908,  
14941, 14972,  
15003, 15234,  
15235, 15242,  
15256, 15477,  
15485, 15490,  
15670, 15671,  
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16059, 16102,  
16105, 16958,  
16961, 16993,  
16995, 17093,  
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17756, 17768,  
17773, 17984,

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18406, 18432,  
18435, 18528,  
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19159, 19171,  
19181, 19202,  
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21163, 21166,  
21262, 21271,  
21448, 21450,  
21452, 21455,  
21461, 21469,  
21471, 21474,  
21480, 21482,  
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21692, 21695,  
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22319, 22478,  
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23036, 23040,  
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23304, 23306,  
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23313, 23538,  
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23581, 23593,  
23596, 23610,  
23611, 23615,  
23633, 23929,  
23990, 24002,  
24037, 24039,  
24084, 24086, 24475  
\ExplSyntaxOff ... 17723  
\ExplSyntaxOn .... 17702  
\extrafeetendmini .  
..... 11431, 11457  
\extrafeetendminihook  
..... 11455, 11456  
\extrafeetins 11388, 11389  
\extrafeetinshook .  
..... 11416, 11417  
\extrafeetminihook 11430  
\extrainfo ..... 4526  
\extrarowheight ...  
.. 386, 16033, 16041  
\extrarulesep .... 21686  
\extratitle .....  
. 19625, 20365, 21138  
  
F  
\f@nch@everypar .. 13098  
\f@nch@foot ..... 13106  
\f@nch@head ..... 13100  
\f@nch@reset 13100, 13106  
\f@nch@vbox . 13101, 13107



\f@size . . . . .	347	14564, 14565,	853, 860, 869, 875,
\fakeslideentry . . .	2461	14580, 14581,	876, 882, 885, 892,
\FamilyKeyState . .	22750	14590, 14594,	895, 896, 901, 909,
\FamilyKeyStateProcessed		14599, 14603,	917, 919, 926, 927,
.....	22750	14607, 14611,	931, 951, 952, 953,
\familyname . . . . .	4519	14619, 14625,	970, 998, 1008,
\familynamecolour .		14632, 14638,	1017, 1025, 1049,
. 4488, 10091, 10189		14644, 14650, 18114	1051, 1066, 1071,
\familynamefont 4497,		\fboxrule 4116, 13797,	1105, 1112, 1121,
4505, 10131, 10225		13803, 13809,	1125, 1131, 1132,
\familynamestyle 4505,		13811, 13813, 13815	1137, 1140, 1148,
10142, 10232, 10253		\fboxsep . . . . .	1156, 1158, 1165,
\FamilySetBool . . .	22749	1913,	1166, 1174, 1177,
\fancy@oval . . . . .	13068	4117, 4184, 4193,	1178, 1183, 1196,
\fancyfoot . . . . .	4618,	9444, 9445, 9446,	1199, 1200, 1201,
7096, 7097, 10157		9482, 13797,	1220, 1248, 1258,
\fancyhead . . . . .	7085,	13809, 13811,	1267, 1275, 1299,
7086, 7087, 8312,		13813, 13815,	1301, 1316, 1321,
8313, 8324, 8325, 8326		18113, 23525,	1359, 1360, 1362,
\fancyhf . . 4467, 7083,		23526, 23527, 23623	1365, 1367, 1368,
7092, 7102, 8310, 8321		\fcolorbox . . . . .	1373, 1387, 1388,
\fancyhfoffset 7076, 7077		4118	1402, 1403, 1417,
\fancypagestyle . .		\FeetAboveFloat . .	1425, 1426, 1432,
.....	4464, 4617,	.....	1433, 1437, 1442,
7091, 7101, 10156		12885, 12889	1445, 1450, 1453,
\FAX . . . . .	4484	\FeetAtBottom . . .	1461, 1462, 1471,
\fax . . . . .	4524	.....	1472, 1484, 1485,
\faxsymbol . . . . .		12887	1496, 1507, 1515,
. 4484, 10166, 10264		\FeetBelowFloat . .	1571, 1576, 1601,
\fb@adjheight . . . .		12886	1609, 1624, 1632,
. 13834, 13904, 13924		\FeetBelowRagged . .	1645, 1653, 1666,
\fb@afterframe . . . .		.....	1674, 1782, 1786,
. 13829, 13854, 13912		12888, 12890	1796, 1827, 1855,
\FB@captype . . . . .		\ff@backcol . . . . .	1858, 1867, 1873,
. 13229, 13230, 13232		13339	1875, 1880, 1881,
\fb@frh . 13841, 13845,		\ff@col . . . . .	1882, 1883, 1885,
13860, 13895, 13898		13337	1887, 1888, 1889,
\fb@put@frame . 13823,		\ff@frametype 13335, 13346	1892, 1893, 1906,
13834, 13905, 13925		\ff@txtcol . . . . .	1908, 1919, 1922,
\fb@putboxa . . . 13828,		. 13327, 13328, 13338	1924, 1940, 1948,
13853, 13911, 13928		\fi . . . . .	1949, 1957, 1965,
\fb@resto@set . . . . .		12, 13, 18,	1992, 2006, 2021,
. 13863, 13903, 13907		25, 36, 87, 98, 104,	2035, 2120, 2121,
\fb@sizeofframe . . .		107, 108, 109, 117,	2142, 2192, 2194,
.....	13836, 13858	134, 136, 142, 150,	2208, 2224, 2270,
\FBifcaptop . . . . .	16085	154, 158, 162, 169,	2296, 2322, 2366,
\fbox . . . . .	4168,	177, 184, 193, 207,	2389, 2409, 2421,
4178, 9482, 10767,		208, 213, 218, 224,	2425, 2447, 2452,
14489, 14495,		227, 228, 229, 239,	2457, 2459, 2462,
14502, 14508,		290, 305, 309, 328,	2475, 2483, 2502,
14514, 14520,		336, 348, 362, 363,	2650, 2716, 2722,
14528, 14532,		375, 376, 379, 382,	2728, 2805, 2821,
14537, 14541,		398, 404, 406, 463,	2833, 2840, 2855,
14545, 14549,		468, 506, 513, 521,	2909, 2911, 2916,
		523, 530, 533, 534,	
		537, 556, 557, 563,	
		572, 595, 604, 611,	
		620, 624, 637, 640,	
		641, 642, 648, 649,	
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		675, 682, 683, 690,	
		693, 694, 699, 707,	
		746, 756, 765, 773,	
		797, 799, 814, 819,	



2936, 2954, 2963,  
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2984, 2986, 2987,  
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3091, 3116, 3127,  
3144, 3152, 3158,  
3162, 3165, 3172,  
3213, 3215, 3226,  
3233, 3251, 3274,  
3323, 3334, 3345,  
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3675, 3676, 3688,  
3694, 3695, 3738,  
3744, 3750, 3756,  
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3888, 3937, 3952,  
3953, 3960, 3961,  
3972, 4008, 4219,  
4225, 4231, 4246,  
4267, 4271, 4272,  
4274, 4330, 4331,  
4337, 4352, 4353,  
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4589, 4590, 4591,  
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4779, 4788, 4795,  
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4928, 4937, 4940,  
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4980, 4987, 5031,  
5035, 5041, 5042,  
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5085, 5089, 5095,  
5096, 5114, 5120,  
5121, 5142, 5146,  
5152, 5153, 5180,  
5186, 5187, 5215,

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5673, 5687, 5701,  
5711, 5739, 5784,  
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5932, 5971, 6063,  
6097, 6135, 6141,  
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6318, 6350, 6361,  
6415, 6417, 6418,  
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6454, 6463, 6465,  
6486, 6487, 6489,  
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6507, 6522, 6535,  
6536, 6544, 6561,  
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6824, 6830, 7023,  
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10320, 10345,



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18074,	18075,	18906,	18907,	19863,	19864,
18076,	18077,	18918,	18920,	19865,	19881,
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18114,	18115,	19060,	19067,	20056,	20080,
18122,	18124,	19075,	19082,	20094,	20096,
18128,	18130,	19085,	19086,	20101,	20108,
18139,	18141,	19090,	19100,	20115,	20127,
18143,	18152,	19102,	19104,	20161,	20175,
18154,	18156,	19113,	19118,	20177,	20184,
18165,	18167,	19125,	19134,	20186,	20192,
18169,	18178,	19168,	19172,	20198,	20201,
18180,	18201,	19182,	19213,	20225,	20226,
18221,	18233,	19218,	19219,	20237,	20245,
18234,	18241,	19230,	19231,	20252,	20253,
18250,	18254,	19245,	19247,	20261,	20262,
18267,	18270,	19251,	19255,	20273,	20280,
18271,	18272,	19257,	19262,	20287,	20297,
18278,	18279,	19266,	19269,	20300,	20302,
18284,	18287,	19273,	19275,	20307,	20311,
18295,	18303,	19279,	19308,	20314,	20316,
18310,	18311,	19316,	19317,	20321,	20323,
18318,	18321,	19341,	19354,	20326,	20329,
18322,	18328,	19356,	19361,	20331,	20336,
18343,	18364,	19368,	19375,	20338,	20339,
18366,	18368,	19387,	19421,	20342,	20373,
18382,	18392,	19435,	19437,	20376,	20377,
18401,	18409,	19444,	19446,	20380,	20383,
18433,	18435,	19452,	19458,	20396,	20399,
18450,	18455,	19461,	19485,	20402,	20405,



20414,	20418,	21670,	21677,	22460,	22552,
20425,	20442,	21683,	21688,	22569,	22572,
20463,	20470,	21719,	21776,	22574,	22610,
20473,	20474,	21777,	21793,	22611,	22613,
20475,	20477,	21794,	21810,	22615,	22645,
20513,	20516,	21848,	21855,	22646,	22647,
20527,	20531,	21857,	21872,	22654,	22670,
20542,	20548,	21883,	21886,	22686,	22709,
20624,	20625,	21893,	21894,	22757,	22758,
20626,	20643,	21895,	21900,	23081,	23083,
20654,	20672,	21904,	21905,	23090,	23092,
20678,	20702,	21920,	21943,	23105,	23106,
20820,	20828,	21950,	21968,	23107,	23114,
20829,	20853,	21969,	21985,	23118,	23123,
20867,	20869,	21986,	21987,	23127,	23133,
20874,	20881,	21991,	21992,	23139,	23143,
20888,	20900,	22001,	22005,	23149,	23152,
20934,	20948,	22006,	22007,	23154,	23155,
20950,	20957,	22013,	22016,	23156,	23159,
20959,	20965,	22017,	22018,	23162,	23165,
20971,	20974,	22026,	22037,	23166,	23175,
20998,	20999,	22038,	22040,	23181,	23190,
21010,	21018,	22041,	22047,	23191,	23199,
21025,	21026,	22048,	22049,	23205,	23209,
21034,	21035,	22057,	22060,	23212,	23213,
21046,	21053,	22061,	22069,	23224,	23225,
21060,	21070,	22070,	22071,	23235,	23236,
21073,	21075,	22072,	22080,	23240,	23244,
21080,	21084,	22083,	22087,	23248,	23252,
21087,	21089,	22088,	22089,	23256,	23260,
21094,	21096,	22097,	22100,	23264,	23268,
21099,	21102,	22104,	22105,	23272,	23277,
21104,	21109,	22106,	22114,	23285,	23288,
21111,	21112,	22117,	22121,	23295,	23296,
21115,	21146,	22122,	22123,	23300,	23307,
21149,	21150,	22131,	22134,	23330,	23336,
21165,	21168,	22138,	22139,	23347,	23352,
21179,	21183,	22140,	22148,	23358,	23360,
21190,	21207,	22151,	22155,	23367,	23370,
21228,	21235,	22156,	22157,	23383,	23392,
21238,	21239,	22165,	22168,	23405,	23408,
21240,	21242,	22173,	22174,	23419,	23425,
21278,	21281,	22175,	22183,	23426,	23432,
21292,	21296,	22186,	22192,	23437,	23440,
21307,	21313,	22193,	22194,	23454,	23459,
21389,	21390,	22202,	22205,	23462,	23463,
21391,	21408,	22212,	22213,	23464,	23465,
21419,	21437,	22214,	22222,	23469,	23472,
21443,	21467,	22225,	22239,	23474,	23480,
21561,	21564,	22247,	22248,	23481,	23495,
21606,	21622,	22249,	22257,	23505,	23506,
21627,	21631,	22260,	22282,	23513,	23518,
21632,	21649,	22297,	22298,	23521,	23524,
21657,	21663,	22299,	22440,	23525,	23528,



23529,	23531,	24272,	24273,	\floatc@biditytfloatplain
23540,	23541,	24274,	24282,	..... 7220,
23545,	23551,	24296,	24300,	7230, 7237, 7243, 7251
23557,	23558,	24301,	24305,	\floatc@biditytfloatplaintop
23559,	23562,	24313,	24314,	..... 7237
23568,	23572,	24315,	24316,	\floatc@biditytfloatruled
23583,	23584,	24317,	24338,	..... 7238
23588,	23594,	24345,	24351,	\floatc@plain .... 13220
23606,	23607,	24352,	24353,	\floatingpenalty ..
23608,	23611,	24354,	24356,	.. 41, 55, 71, 244,
23625,	23630,	24357,	24358,	258, 273, 10304,
23676,	23677,	24376,	24392,	10325, 10372,
23685,	23695,	24411,	24414,	10379, 10424,
23704,	23705,	24415,	24419,	10431, 11425,
23708,	23712,	24420,	24422,	13564, 13581, 13597
23713,	23748,	24430,	24432,	\floatstyle ..... 7271
23774,	23793,	24541, 24547, 24553		\flushleft ... 4185, 4194
23801,	23807,	\figcaption . 14442, 14460		\FN@sfc@footnote ..
23813,	23821,	\fill ..... 2625,		..... 4212, 4216
23828,	23829,	2816, 2818, 2820,		\FN@sfc@footnotemark
23830,	23836,	2947, 2948, 2951,		..... 4241, 4243
23841,	23844,	2952, 2958, 2961,		\FN@sfc@LTRfootnote
23852,	23853,	2969, 3054, 3056,		..... 4213, 4222
23861,	23862,	3058, 8251, 8255,		\FN@sfc@RTLfootnote
23870,	23871,	14477, 14672,		..... 4214, 4228
23879,	23880,	16014, 16016, 16018		\FN@sfc@gobble@bracket
23888,	23889,	\filright .. 21835, 21864		..... 4252, 4255
23890,	23891,	\FirstFrameCommand		\FN@sfc@gobble@opt .
23894,	23897,	..... 13811, 13857		..... 4218,
23900,	23903,	\firstmark .... 9651,		4224, 4230, 4233
23904,	23905,	9714, 13128,		\FN@sfc@gobble@optonly
23906,	23908,	13164, 13321,		..... 4245, 4248
23910,	23911,	13997, 14046,		\FN@sfc@gobble@twobracket
23918,	23921,	17001, 17101,		..... 4237, 4240
23923,	23927,	24045, 24092, 24403		\focus@pbar@height
23928,	23931,	\firstname ..... 4518		2945, 2947, 2948,
23947,	23948,	\firstnamecolour ..		2949, 2951, 2952,
23956,	23957,	. 4487, 10092, 10188		2953, 2958, 2959,
23960,	23961,	\firstnamefont ....		2961, 2962, 2968,
23962,	23963,	4496, 4504, 10130,		2969, 2971, 2973,
23964,	23970,	10131, 10222, 10225		2978, 2979, 2981, 2982
23975,	23983,	\firstnamestyle 4504,		\focus@pbar@leftoffset
24000,	24006,	10142, 10232, 10253		2927, 2928, 2943,
24008,	24015,	\fivecolumnfootnotes		2947, 2948, 2951, 2952
24025,	24027,	..... 11831		\focus@pbar@progress
24047,	24071,	\Fld@width .... 15262,		... 2942, 2948, 2952
24074,	24094,	15270, 15278, 15286		\focus@pbar@rightoffset
24114,	24117,	\flnew@within .... 13229		2931, 2932, 2934,
24120,	24138,	\float@newx ..... 13223		2935, 2943, 2958,
24153,	24171,	\floatalignment ...		2961, 2971, 2973,
24173,	24182,	.... 6880, 6881,		2978, 2979, 2981, 2982
24191,	24226,	6922, 6923, 6945,		\font ..... 21573, 21574
24235,	24267,	6952, 6960, 7011, 7222		\fontdimen . 21573, 21574
24270,	24271,	\FloatBarrier . 6852, 7202		



\fontsize . . . . . 303, 8206, 8208, 8210, 10130, 10222, 15362, 17682, 17695	13463, 13464, 13468	11488, 11489, 12547, 12548, 12576, 12578, 12605, 12606, 12638, 12640, 12657, 12671, 17407, 17408, 17415, 17416, 17420, 17421, 17435, 17482, 17483
\foo . . . . . 17753, 17755, 17765, 17767	\footdir@write . . . . . 13389, 13419, 13458	\footinsv@r . . . . . . . 11393, 11483, 11484, 11485, 11486, 11516, 11517, 11528, 11538, 11548, 11625, 11626, 11637, 11646, 11655, 11728, 11729, 11740, 11750, 11760, 11837, 11838, 11849, 11859, 11869, 11946, 11947, 11958, 11968, 11978, 12055, 12056, 12067, 12077, 12087, 12164, 12165, 12176, 12186, 12196, 12273, 12274, 12285, 12295, 12305, 12382, 12383, 12394, 12404, 12414, 12541, 12542, 12572, 12574, 12599, 12600, 12634, 12636, 12655, 12683, 17403, 17404, 17411, 17412, 17418, 17419, 17434, 17478, 17479
\footdir@abspage .. . . . . . 13424, 13427, 13428, 13431, 13432, 13435	\footfootmark . . . . . . . 11217, 11342, 11565, 11671, 11777, 11886, 11995, 12104, 12213, 12322, 12431, 12698, 13752	\footmarkstyle . . . . . . . . . 11339, 11378
\footdir@debug 13396, 13404, 13408, 13411, 13421, 13428, 13432, 13435	\footfudgefactor .. . 12496, 12585, 12647	\footmarkwidth . . . . . . 11338, 11343, 11344, 11346, 11348, 11351, 11355, 11356, 11358, 11360, 11363, 11367,
\footdir@debugfalse 3785	\footins 35, 49, 65, 238, 252, 267, 10304, 10325, 10329, 10330, 10341, 10344, 10348, 10372, 10378, 10386, 10387, 10398, 10401, 10430, 11234, 11262, 11422, 11481, 12815, 12816, 12838, 12842, 12855, 12876, 13575, 13591, 13981, 14030, 14031, 14084, 14086, 14087, 14107, 14118, 14127, 14148, 14169, 18049, 18050, 18052, 24125, 24131, 24135, 24140, 24158, 24162	
\footdir@debugtrue . . . . . 3783, 13394	\footnotetext . . . . . 79 10430, 11234, 11262, 11422, 11481, 12815, 12816, 12838, 12842, 12855, 12876, 13575, 13591, 13981, 14030, 14031, 14084, 14086, 14087, 14107, 14118, 14127, 14148, 14169, 18049, 18050, 18052, 24125, 24131, 24135, 24140, 24158, 24162	
\footdir@fntext . . . . 13442, 13459, 13461	\footnotetext . . . . . 81 11422, 11481, 12815, 12816, 12838, 12842, 12855, 12876, 13575, 13591, 13981, 14030, 14031, 14084, 14086, 14087, 14107, 14118, 14127, 14148, 14169, 18049, 18050, 18052, 24125, 24131, 24135, 24140, 24158, 24162	
\footdir@LeftRightElse . 13402, 13418, 13495	\footnotetext . . . . . 80 12838, 12842, 12855, 12876, 13575, 13591, 13981, 14030, 14031, 14084, 14086, 14087, 14107, 14118, 14127, 14148, 14169, 18049, 18050, 18052, 24125, 24131, 24135, 24140, 24158, 24162	
\footdir@name . . . . . . 13445, 13448, 13449	\footnotetext . . . . . 82 12861, 12876, 13575, 13591, 13981, 14030, 14031, 14084, 14086, 14087, 14107, 14118, 14127, 14148, 14169, 18049, 18050, 18052, 24125, 24131, 24135, 24140, 24158, 24162	
\footdir@ORG@bidi@amsart@footnotetext . . . . . 79	\footnotetext . . . . . 83 14031, 14084, 14086, 14087, 14107, 14118, 14127, 14148, 14169, 18049, 18050, 18052, 24125, 24131, 24135, 24140, 24158, 24162	
\footdir@ORG@bidi@amsart@LTRfootnotetext . . . . . 81	\footnotetext . . . . . 84 13591, 13981, 14030, 14031, 14084, 14086, 14087, 14107, 14118, 14127, 14148, 14169, 18049, 18050, 18052, 24125, 24131, 24135, 24140, 24158, 24162	
\footdir@ORG@bidi@amsart@RTLfootnotetext . . . . . 80	\footnotetext . . . . . 85 13591, 13981, 14030, 14031, 14084, 14086, 14087, 14107, 14118, 14127, 14148, 14169, 18049, 18050, 18052, 24125, 24131, 24135, 24140, 24158, 24162	
\footdir@ORG@bidi@amsbook@footnotetext . . . . . 282	\footnotetext . . . . . 86 13591, 13981, 14030, 14031, 14084, 14086, 14087, 14107, 14118, 14127, 14148, 14169, 18049, 18050, 18052, 24125, 24131, 24135, 24140, 24158, 24162	
\footdir@ORG@bidi@amsbook@LTRfootnotetext . . . . . 284	\footnotetext . . . . . 87 13591, 13981, 14030, 14031, 14084, 14086, 14087, 14107, 14118, 14127, 14148, 14169, 18049, 18050, 18052, 24125, 24131, 24135, 24140, 24158, 24162	
\footdir@ORG@bidi@amsbook@RTLfootnotetext . . . . . 283	\footnotetext . . . . . 88 13591, 13981, 14030, 14031, 14084, 14086, 14087, 14107, 14118, 14127, 14148, 14169, 18049, 18050, 18052, 24125, 24131, 24135, 24140, 24158, 24162	
\footdir@ORG@bidi@beamer@footnotetext . . . . . 2243	\footnotetext . . . . . 89 13591, 13981, 14030, 14031, 14084, 14086, 14087, 14107, 14118, 14127, 14148, 14169, 18049, 18050, 18052, 24125, 24131, 24135, 24140, 24158, 24162	
\footdir@ORG@bidi@beamer@LTRfootnotetext . . . . . 2245	\footnotetext . . . . . 90 13591, 13981, 14030, 14031, 14084, 14086, 14087, 14107, 14118, 14127, 14148, 14169, 18049, 18050, 18052, 24125, 24131, 24135, 24140, 24158, 24162	
\footdir@ORG@bidi@beamer@RTLfootnotetext . . . . . 2244	\footnotetext . . . . . 91 13591, 13981, 14030, 14031, 14084, 14086, 14087, 14107, 14118, 14127, 14148, 14169, 18049, 18050, 18052, 24125, 24131, 24135, 24140, 24158, 24162	
\footdir@ORG@bidi@footnotetext . . . . . 13615	\footnotetext . . . . . 92 13591, 13981, 14030, 14031, 14084, 14086, 14087, 14107, 14118, 14127, 14148, 14169, 18049, 18050, 18052, 24125, 24131, 24135, 24140, 24158, 24162	
\footdir@ORG@bidi@LTRfootnotetext . . . . . 13617	\footnotetext . . . . . 93 13591, 13981, 14030, 14031, 14084, 14086, 14087, 14107, 14118, 14127, 14148, 14169, 18049, 18050, 18052, 24125, 24131, 24135, 24140, 24158, 24162	
\footdir@ORG@bidi@RTLfootnotetext . . . . . 13616	\footnotetext . . . . . 94 13591, 13981, 14030, 14031, 14084, 14086, 14087, 14107, 14118, 14127, 14148, 14169, 18049, 18050, 18052, 24125, 24131, 24135, 24140, 24158, 24162	
\footdir@temp . . . 79, 80, 81, 282, 283, 284, 2243, 2244, 2245, 13454, 13615, 13616, 13617	\footnotetext . . . . . 95 13591, 13981, 14030, 14031, 14084, 14086, 14087, 14107, 14118, 14127, 14148, 14169, 18049, 18050, 18052, 24125, 24131, 24135, 24140, 24158, 24162	
\footdir@toks . . . . . . . 13395, 13462,	\footnotetext . . . . . 96 13591, 13981, 14030, 14031, 14084, 14086, 14087, 14107, 14118, 14127, 14148, 14169, 18049, 18050, 18052, 24125, 24131, 24135, 24140, 24158, 24162	



11368, 11370,	10301, 10322,	12069, 12104,
11372, 11375,	10347, 10404,	12115, 12159,
11382, 11385,	11218, 11224,	12178, 12213,
13753, 13754,	11230, 11426,	12224, 12268,
13756, 13758,	12566, 12628,	12287, 12322,
13761, 13765,	13563, 13571,	12333, 12377,
13766, 13768,	13580, 13588,	12396, 12431,
13770, 13773,	13596, 13604,	12442, 12501,
13777, 13778,	13631, 13645,	12536, 12565,
13780, 13782, 13785	13659, 15357, 15359	12590, 12627,
\footnote 417, 491, 741,	\footnotesize ... 38,	12662, 12698, 12723
840, 993, 1092,	52, 68, 106, 226,	\forcerectofloat .. 6883
1243, 1343, 2247,	241, 255, 270, 413,	\forceversofloat .. 6884
4212, 4215, 7788,	737, 989, 1239,	\forvariable .....
8107, 8138, 8829,	4596, 4618, 6760,	6043, 6049, 6125,
9006, 9111, 9185,	6761, 6799, 7418,	6161, 6168, 6173,
10874, 10942,	7419, 7420, 7612,	6179, 6184, 6188, 6189
10967, 11041,	7642, 7660, 7678,	\fourcolumnfootnotes
12974, 13042,	8825, 9002, 9107,	..... 11722
16897, 16900,	10870, 10963,	\fp ..... 16554,
18377, 18476,	11418, 11419,	16555, 16556, 16557
18514, 18620,	11420, 12970,	\fps@figure ..... 14430
18774, 18862,	13554, 13555,	\framebox .... 10140,
18971, 19045,	13556, 13561,	10271, 17212, 17218
19426, 20166, 20939	13578, 13594,	\FrameCommand .... 13809
\footnotelayout ...	13624, 13638,	\FrameHeightAdjust 13883
... 7606, 7607, 7610	13652, 15349,	\FrameRestore . 13817,
\footnotemark .....	17852, 17854,	13821, 13937, 13938
4241, 4242, 13693,	18373, 18510,	\framewidth .....
13707, 16898, 16901	18770, 18967,	... 2143, 2160, 2177
\footnoterule . 10283,	19422, 20162, 20935	\fromaddress .....
10345, 10351,	\footnotetext .. 4276,	.. 11135, 11141,
10356, 10384,	4287, 8567, 8577	11151, 15415, 15421
10385, 10402,	\footrule ..... 13107	\fromname ..... 11156
10406, 10410,	\footrulewidth 4466, 7081	\fromsig ... 11155, 11157
10436, 10437,	\footscript .....	\fromvalue .... 6043,
11209, 11438,	.. 11339, 11345,	6129, 6152, 6174, 6189
11446, 11467,	11349, 11351,	\frontmatter ..... 8305
11482, 12808,	13755, 13759, 13761	\fs@biditytfloatboxed
12841, 12854,	\footskip 13107, 19412,	..... 7249
13386, 13483,	20152, 20925, 24389	\fs@biditytfloatplain
13487, 13490,	\foottextfont . 11218,	..... 7228, 7236
13505, 13510,	11238, 11280,	\fs@biditytfloatplaintop
13511, 13513,	11418, 11511,	..... 7236
14169, 14202,	11530, 11565,	\fs@biditytfloatruled
17343, 18051,	11576, 11620,	..... 7241
21827, 24134, 24161	11639, 11671,	\fslice . 17869, 17870,
\footnotes ..... 7603	11682, 11723,	17872, 17873, 17876
\footnotesep 29, 31, 40,	11742, 11777,	\ftn@amount ... 14085,
46, 54, 60, 70, 76,	11788, 11832,	14086, 14087,
233, 235, 243, 249,	11851, 11886,	14094, 14098, 14099
257, 263, 272, 278,	11897, 11941,	\ftn@font .... 19323,
2154, 2171, 2188,	11960, 11995,	19359, 20062,
2204, 2220, 2236,	12006, 12050,	20099, 20835, 20872



\ftn@rule@height ..	16550,	16551,	4115, 4487, 4488,
..... 19367,	16552,	16554,	4489, 4490, 4491,
19370, 19374,	16555,	16556,	4492, 4494, 4495,
19377, 20107,	16557,	16559,	4656, 4680, 5000,
20110, 20114,	16560,	16570,	5721, 5807, 5809,
20117, 20880,	16578,	16579,	5819, 5821, 6138,
20883, 20887, 20890	16580,	16582,	6140, 6141, 6611,
\ftn@rule@test@values	16587,	16588,	6622, 6896, 6897,
..... 19366,	16593,	16594,	6899, 6902, 6982,
19373, 20106,	16598,	16603,	6987, 6988, 6989,
20113, 20879, 20886	16606,	16613,	7141, 7182, 7561,
\ftn@rule@width 19370,	16615,	16618,	7699, 7728, 7757,
19377, 20110,	16619,	16623,	7796, 7805, 7814,
20117, 20883, 20890	16625,	16626,	8143, 8160, 8176,
\ftnm@font .....	16629,	16630,	8188, 8228, 8229,
. 19362, 20102, 20875	16631,	16635,	8230, 8417, 8420,
\full@width .....	16636,	16640,	8675, 8687, 8689,
. 17270, 17282, 17330	16641,	16648,	9650, 9713, 10629,
\futurelet .... 790,	16663,	16664,	10642, 12859,
792, 1042, 1044,	16665,	16667,	12872, 12885,
1292, 1294, 4785,	16672,	16675,	12886, 13127,
5843, 5846, 18426,	16676,	16679,	13163, 13449,
18428, 18567, 18569	16683,	16684,	13509, 13996,
	16685,	16689,	14045, 15478,
	16690,	16691,	15711, 15714,
	16698,	16699,	17000, 17100,
	16700,	16702,	17627, 17648,
	16703,	16706,	18043, 21571,
	16707,	16712,	21836, 21837,
	16718,	16729,	21842, 21865,
	16734,	16735,	21866, 23305,
	16736,	16740,	23712, 23762,
	16743,	16744,	23987, 24044, 24091
	16745,	16746,	\geometry . 1937, 1939,
	16748,	16756,	1945, 1947, 6782,
	16770,	16771,	6785, 6789, 6792, 6796
	16772,	16773,	\Gin@angle ..... 17688
	16775,	16778,	\Gin@bboxtrue .... 14247
	16786,	16787,	\Gin@defaultbp ....
	16790,	16794,	.. 14248, 14249,
	16795,	16797,	14250, 14251,
	16799,	16800,	21798, 21799, 21802
	16801,	16805,	\Gin@eheight ..... 17690
	16806,	16807,	\Gin@esetsize .... 14266
	16812,	16819,	\Gin@ewidth . 17689, 17690
	17705, 17713, 17716		\Gin@exclamation ..
\g@addto@macro ....			. 14296, 17689, 17692
.... 6288, 6532,			\Gin@gridfalse ... 17675
6617, 6627, 6878,			\Gin@iii ..... 14255
7564, 7566, 10675,			\Gin@llx ... 14244, 14258
10678, 10680,			\Gin@lly ..... 14248
16144, 22983, 23308			\Gin@lly ..... 14249
\g@mix@page@int .. 16692			\Gin@outer@scalex 17686
\gdef ..... 406, 408,			\Gin@outer@scaley 17687



\Gin@scalex . . . . .	17691	5985, 5995, 6108,	10365, 10368,
\Gin@scaley . . . . .	17692	6127, 6129, 6131,	10376, 10381,
\Gin@urx . . . . .	14250	6143, 6148, 6747,	10393, 10401,
\Gin@ury . . . . .	14251	6881, 6925, 6926,	10405, 10417,
\Gin@graphics		7298, 7309, 7312,	10420, 10428,
. . . . .	14252, 14264	7342, 7353, 7356,	10433, 10755,
\Gin@path . . . . .	16452	7386, 7397, 7400,	10892, 10893,
\global .	301, 437, 438,	7454, 8221, 8418,	10894, 10895,
	439, 440, 441, 442,	8421, 8439, 8443,	10896, 10897,
	443, 444, 445, 446,	8459, 8470, 8496,	10898, 10899,
	447, 448, 466, 472,	8497, 8524, 8537,	10900, 10901,
	473, 474, 475, 476,	8538, 8558, 8568,	10919, 10925,
	477, 478, 479, 480,	8571, 8574, 8577,	10926, 10927,
	481, 482, 483, 484,	8580, 8583, 8615,	10928, 10929,
	519, 520, 671, 672,	8625, 8639, 8641,	10930, 10931,
	779, 780, 781, 782,	8646, 8647, 8653,	10932, 10933,
	783, 784, 785, 786,	8654, 8656, 8676,	10934, 10935,
	787, 788, 817, 823,	8688, 8690, 8748,	10987, 10988,
	824, 825, 826, 827,	8749, 8867, 8868,	10989, 10990,
	828, 829, 830, 831,	8869, 8870, 8871,	10991, 10992,
	832, 833, 915, 916,	8872, 8873, 8874,	10993, 10994,
	1031, 1032, 1033,	8875, 8876, 8925,	10995, 10996,
	1034, 1035, 1036,	8926, 9044, 9045,	10997, 10998,
	1037, 1038, 1039,	9046, 9047, 9048,	11016, 11022,
	1040, 1069, 1075,	9049, 9050, 9051,	11023, 11024,
	1076, 1077, 1078,	9052, 9053, 9131,	11025, 11026,
	1079, 1080, 1081,	9132, 9133, 9134,	11027, 11028,
	1082, 1083, 1084,	9135, 9136, 9137,	11029, 11030,
	1085, 1154, 1155,	9138, 9139, 9140,	11031, 11032,
	1281, 1282, 1283,	9141, 9142, 9160,	11033, 11034,
	1284, 1285, 1286,	9166, 9167, 9168,	11067, 11068,
	1287, 1288, 1289,	9169, 9170, 9171,	11276, 11287,
	1290, 1319, 1325,	9172, 9173, 9174,	11298, 11462,
	1326, 1327, 1328,	9175, 9176, 9177,	11464, 11505,
	1329, 1330, 1331,	9178, 9212, 9213,	11573, 11585,
	1332, 1333, 1334,	9305, 9315, 9316,	11598, 11679,
	1335, 1461, 1462,	9317, 9318, 9319,	11690, 11702,
	1750, 2141, 2158,	9320, 9321, 9322,	11785, 11797,
	2175, 2192, 2193,	9330, 9343, 9348,	11810, 11894,
	2208, 2209, 2224,	9352, 9408, 9637,	11906, 11919,
	2225, 2437, 4064,	9638, 9648, 9655,	12003, 12015,
	4065, 4066, 4067,	9689, 9700, 9701,	12028, 12112,
	4068, 4069, 4070,	9711, 9718, 9748,	12124, 12137,
	4071, 4072, 4073,	9773, 9792, 9989,	12221, 12233,
	4074, 4274, 4277,	10000, 10013,	12246, 12330,
	4280, 4283, 4287,	10025, 10027,	12342, 12355,
	4290, 4293, 4372,	10036, 10038,	12439, 12451,
	4376, 4398, 4681,	10039, 10042,	12464, 12487,
	4695, 4697, 4703,	10045, 10055,	12501, 12574,
	4705, 4716, 4722,	10062, 10063,	12578, 12636,
	4734, 4758, 4842,	10070, 10296,	12640, 12708,
	4858, 5023, 5077,	10303, 10317,	12733, 12747,
	5131, 5943, 5945,	10324, 10336,	12818, 12862,
	5965, 5966, 5977,	10344, 10348,	12865, 12871,



12877,	12879,	16835,	16836,	18559,	18560,
12884,	12903,	16837,	16838,	18561,	18562,
12904,	12992,	16855,	16950,	18563,	18564,
12993,	12994,	16987,	16988,	18565,	18594,
12995,	12996,	16998,	17004,	18600,	18601,
12997,	12998,	17007,	17009,	18602,	18603,
12999,	13000,	17011,	17012,	18604,	18605,
13001,	13019,	17014,	17019,	18606,	18607,
13025,	13026,	17027,	17029,	18608,	18609,
13027,	13028,	17037,	17038,	18610,	18611,
13029,	13030,	17039,	17040,	18612,	18672,
13031,	13032,	17042,	17043,	18673,	18804,
13033,	13034,	17046,	17047,	18805,	18806,
13035,	13115,	17078,	17079,	18807,	18808,
13116,	13125,	17087,	17088,	18809,	18810,
13131,	13151,	17098,	17104,	18811,	18812,
13152,	13161,	17107,	17109,	18813,	18814,
13168,	13239,	17111,	17112,	18815,	18838,
13242,	13275,	17114,	17119,	18844,	18845,
13278,	13280,	17127,	17129,	18846,	18847,
13286,	13287,	17137,	17138,	18848,	18849,
13288,	13306,	17139,	17140,	18850,	18851,
13310,	13313,	17142,	17143,	18852,	18853,
13316,	13318,	17146,	17147,	18854,	18855,
13322,	13620,	17175,	17176,	18856,	18887,
13621,	13634,	17182,	17183,	18888,	18991,
13635,	13648,	17195,	17196,	18992,	18993,
13649,	13970,	17197,	17198,	18994,	18995,
13971,	13972,	17199,	17200,	18996,	18997,
13973,	13979,	17202,	17208,	18998,	18999,
13980,	13981,	17280,	17297,	19000,	19001,
13982,	13983,	17303,	17317,	19002,	19020,
13984,	13994,	17325,	17568,	19026,	19027,
14003,	14028,	17785,	17802,	19028,	19029,
14029,	14030,	17803,	17804,	19030,	19031,
14031,	14032,	17805,	17813,	19032,	19033,
14033,	14043,	17820,	17859,	19034,	19035,
14052,	14081,	17883,	17884,	19036,	19037,
14082,	14094,	17885,	18084,	19038,	19072,
14095,	14096,	18134,	18300,	19073,	19396,
14098,	14099,	18301,	18415,	19397,	19398,
14100,	14101,	18416,	18417,	19399,	19477,
14183,	14196,	18418,	18419,	19496,	19519,
14856,	14870,	18420,	18421,	19600,	19610,
14894,	14908,	18422,	18423,	19611,	19612,
14941,	14972,	18424,	18453,	19613,	19614,
15003,	15066,	18459,	18460,	19615,	19616,
15076,	15661,	18461,	18462,	19617,	19618,
16053,	16054,	18463,	18464,	19619,	19620,
16102,	16105,	18465,	18466,	19621,	19622,
16124,	16125,	18467,	18468,	19623,	19624,
16133,	16830,	18469,	18554,	19625,	19626,
16831,	16832,	18555,	18556,	19627,	19628,
16833,	16834,	18557,	18558,	19629,	19630,



19631,	19632,	24079,	24089,	\Grot@y . . . . .	14215,
19634,	19902,	24096,	24188,		14220, 19250,
19904,	20136,	24199,	24202,		19260, 19267, 19278
20137,	20138,	24232,	24243,	\group . . . . .	16433, 16454,
20139,	20217,	24246,	24274,		16741, 16754,
20236,	20259,	24283,	24284,		16759, 16766, 16822
20340,	20350,	24285,	24286,	\grp@aligned . . . . .	9321
20351,	20352,	24288,	24291,	\GRP@box . . . . .	9316, 9348, 9350
20353,	20354,	24292,	24306,	\grp@eqs@numbered . . . . .	9320
20355,	20356,	24311,	24325,	\grp@hasNumber . . . . .	9325
20357,	20358,	24326,	24328,	\GRP@label . . . . .	9317
20359,	20360,	24337,	24370,	\grp@linewidth . . . . .	9319
20361,	20362,	24382,	24385,	\GRP@queue . . . . .	9316, 9352
20363,	20364,	24387,	24394,	\grp@setnumber . . . . .	9325
20365,	20366,	24398,	24400,	\grp@shiftnumber . . . . .	9322
20367,	20368,	24401, 24404, 24413		\grp@wdL . . . . .	9318
20369,	20370,	\globalcolorstrue . . . . .		\grp@wdNum . . . . .	9319
20371,	20372,	1756, 1761		\grp@wdR . . . . .	9318
20374,	20664,	\GlobalSetatBoolean 4851		\grp@wdT . . . . .	9318
20666,	20909,	\GlobalSetBoolean . . . . .		\Gscale@box . . . . .	
20910,	20911,	4835, 6883,			14226, 14318, 14335
20912,	20990,	6884, 6911, 6912,		\Gscale@div . . . . .	
21009,	21032,	6916, 6917, 7210, 7211			14317, 14324, 14327
21113,	21123,	\glossary . . . . .	13300, 24365	\Gscale@end . . . . .	14230, 14276
21124,	21125,	\glueexpr . . . . .	22803,	\Gscale@start 14230, 14276	
21126,	21127,	22810, 22815,		\Gscale@x . . . . .	14228, 14274
21128,	21129,	22902, 22963,		\Gscale@y . . . . .	14228, 14274
21130,	21131,	22966, 22970, 22976		\gsetlength . . . . .	
21132,	21133,	\Gm@lmargin . . . . .	1956,		6745, 6898, 6990,
21134,	21135,	1962, 2083, 3266			7452, 7701, 7703,
21136,	21137,	\Gm@pageframes . . . . .	14358		7730, 7732, 7759, 7761
21138,	21139,	\Gm@rmargin . . . . .	1954,	<b>H</b>	
21140,	21141,	1964, 2087, 3297		\H@@footnotemark . . . . .	
21142,	21143,	\Gm@vrule . . . . .	14341,		14747, 14836,
21144,	21145,	14342, 14343,			15029, 15043, 15060
21147,	21429,	14345, 14346,		\H@@footnotetext . . . . .	
21431,	21662,	14347, 14350,			11188, 14706,
21666,	21667,	14351, 14352,			14717, 14786,
21668,	21685,	14355, 14356, 14357			14833, 14947,
21697,	21702,	\Gm@vrules@mpi . . . . .	14338		15030, 15046, 15060
21706,	21718,	\Gm@vrules@mpii . . . . .	14348	\H@@mpfootnotetext . . . . .	
21755,	21757,	\grid . . . . .	17683, 17696		11194, 14715,
21762,	21764,	\Grot@box . . . . .	14216,		14749, 14753, 14837
22031,	22032,	14224, 19251,		\H@refstepcounter 15236	
22035,	22036,	19262, 19269, 19279		\halign . . . . .	8458, 16056
22570,	22571,	\Grot@box@kv . . . . .	14217	\hangafter . . . . .	9498, 16923
22664,	22669,	\Grot@box@std . . . . .	14211	\hangindent . . . . .	107,
23302,	23450,	\Grot@setangle 14212,			108, 109, 227,
23458,	23468,	14223, 19244,			228, 229, 647,
23471,	23515,	19254, 19265, 19272			874, 1130, 8078,
23773,	23990,	\Grot@x . . . . .	14214,		8079, 8080, 8725,
24001,	24031,	14219, 19249,			8902, 9402, 9498,
24032,	24042,	19259, 19267, 19277			15350, 15351,
24049,	24078,				



15352,	16916,	23981,	24051,	10405,	10406,
16922,	18277,	24056,	24060,	10408,	10632,
18649,	23908, 24432	24098,	24099,	10637,	10643,
\hb@xt@ . . . .	456, 516,	24105,	24295,	10866,	11165,
535, 668, 695, 897,		24376, 24392, 24414		12494,	12506,
912, 1059, 1151,		\hbadness . . . . .	7253,	12511,	12515,
1179, 4058, 8746,		10289,	10310,	12520,	12765,
8771, 8923, 8948,		21738,	21740,	12775,	12785,
9150, 9210, 9227,		23389, 23390, 23407		12794,	12948,
9488, 9657, 9662,		\hbox . . . . .	15,	13086,	13100,
9666, 9720, 9721,		28, 188, 210, 232,		13101,	13106,
9727, 9953, 9959,		345, 379, 387, 404,		13108,	13132,
9964, 9971, 9978,		544, 654, 731, 882,		13135,	13139,
10799,	10811,	965, 1137, 1211,		13216,	13220,
10909,	11006,	1413, 1472, 1572,		13222,	13260,
11065,	11344,	1594, 1602, 1617,		13265,	13475,
11351,	11356,	1625, 1638, 1646,		14204,	14205,
11363,	11368,	1659, 1667, 1768,		14213,	14218,
11375,	12901,	1774, 1783, 1790,		14229,	14230,
12918,	13009,	1816, 1828, 1829,		14275,	14276,
13170,	13171,	1860, 1905, 1910,		14314,	14321,
13177,	13197,	1921, 1971, 1973,		15356,	15362,
13212,	13331,	1975, 1977, 1979,		15381,	15434,
13754,	13761,	1980, 1982, 1993,		16045,	16065,
13766,	13773,	2008, 2013, 2022,		16070,	16127,
13778,	13785,	2037, 2046, 2047,		16130,	16438,
14005,	14006,	2058, 2060, 2075,		16454,	16455,
14012,	14054,	2077, 2079, 2081,		16473,	16733,
14059,	14063,	2083, 2087, 2104,		16735,	16745,
14239,	14285,	2108, 2115, 2116,		16781,	16816,
14340,	14345,	2426, 2431, 2438,		17230,	17264,
14350,	14354,	2511, 2512, 2513,		17280,	17282,
15411,	15575,	2521, 2528, 2535,		17392,	17711,
15582,	15589,	2879, 2885, 2891,		17713,	17716,
15594,	15662,	2998, 3024, 3112,		17797,	17852,
16951,	17053,	3153, 3154, 3223,		17856,	17876,
17058,	17062,	3260, 3266, 3267,		17909,	17913,
17153,	17154,	3515, 3517, 3534,		17918,	17922,
17160,	17257,	3536, 3699, 3976,		17934,	17945,
18298,	18323,	4257, 6857, 6945,		17962,	17972,
18670,	18695,	6947, 6952, 6985,		17989,	17998,
18786,	18829,	6986, 6995, 7002,		17999,	18008,
18902,	19010,	7222, 7255, 7573,		18062,	18063,
19070,	19087,	7612, 7639, 7657,		18064,	18066,
19762,	19799,	7675, 7797, 7806,		18067,	18093,
20523,	20560,	7815, 8250, 8258,		18111,	18122,
21288,	21325,	8377, 8427, 8431,		18284,	18338,
21609,	22294,	8442, 8459, 8470,		18656,	18761,
22456,	22565,	8676, 8690, 8732,		18885,	18915,
23047,	23178,	8810, 8909, 8963,		19097,	19266,
23215,	23217,	9237, 9349, 9415,		19323,	19359,
23283,	23290,	9444, 9604, 9607,		19362,	19377,
23292,	23724,	9624, 9628, 10348,		19884,	20062,
23905,	23906,	10351, 10354,		20099,	20102,



20117, 20646,	14632, 14634,	24314, 24316,
20835, 20872,	14638, 14640,	24353, 24354,
20875, 20890,	16784, 16792, 16817	24356, 24357, 24414
21411, 21588,	\hfil . . . . . 15, 210,	\hfill . . . . . 1478,
21636, 21649,	516, 535, 668, 695,	1479, 2095, 2116,
21677, 21688,	897, 912, 1060,	3006, 3009, 3143,
21727, 21797,	1151, 1179, 1409,	3234, 4576, 4582,
23170, 23171,	1410, 1411, 1412,	4596, 7014, 7015,
23220, 23222,	1440, 1441, 1442,	7018, 7019, 8399,
23279, 23280,	1448, 1449, 1450,	8409, 9421, 9422,
23483, 23517,	1572, 1603, 1605,	10141, 13102,
23519, 23525,	1626, 1628, 1647,	13103, 13108,
23638, 23647,	1649, 1668, 1670,	13109, 17232,
23648, 23657,	2043, 2047, 2069,	17256, 17495,
23722, 23723,	2083, 2086, 2521,	17498, 17499,
23726, 23727,	2528, 2535, 2879,	17500, 17503,
23728, 23729,	2885, 2891, 4030,	17504, 17505,
23737, 23743,	4035, 8428, 8430,	17506, 17507,
23907, 23916,	8535, 8746, 8771,	17510, 17511,
23918, 23923,	8923, 8948, 9210,	17512, 17513,
23933, 23948,	9227, 9488, 9605,	17514, 17515,
23977, 23978,	9608, 9625, 9629,	17516, 17519,
24303, 24313, 24315	9659, 9661, 9724,	17520, 17521,
\hboxL . . . . . 192,	9726, 9956, 9958,	17522, 17523,
3691, 3693, 3971,	9975, 9977, 10799,	17524, 17525,
13917, 13934,	10811, 11065,	17526, 17527,
15577, 17999, 23648	11504, 12901,	17530, 17531,
\hboxR 190, 3685, 3687,	12918, 13134,	17532, 17535,
3969, 17989, 23638	13174, 13176,	17536, 17537,
\head@style . . . . 621,	13202, 13215,	17540, 17541,
928, 1122, 1355,	13222, 14009,	17542, 17543,
8717, 8894, 18251,	14011, 14056,	17544, 17547,
18634, 18701, 18763	14058, 14347,	17548, 17549,
\headheight 2083, 4040,	14352, 15381,	17550, 17551,
10617, 13101,	15662, 16070,	17554, 17555,
13308, 19410,	16951, 17055,	17556, 17557,
20150, 20923, 24372	17057, 17157,	17558, 17963,
\headrule . . . . . 13104	17159, 17257,	17967, 19377,
\headrulewidth 4465, 7080	17856, 17910,	19922, 19939,
\headsep . . . . . 4048,	17914, 17919,	20117, 20684,
4051, 10618,	17923, 17935,	20701, 20890,
13309, 19411,	17946, 17972,	21449, 21466,
20151, 20924, 24381	18298, 18323,	21837, 21866,
\headwidth 4555, 13100,	18670, 18695,	23010, 23013,
13102, 13103,	18885, 18902,	23017, 23172,
13104, 13106,	19070, 19087,	23281, 23438, 23979
13108, 13109, 13110	22294, 22456,	\hfilneg . . . 11498, 11502
\height . 14220, 14294,	22565, 23047,	\hfuzz 10630, 21739, 21741
14502, 14504,	23178, 23215,	\hintcolour . . . . . 4495
14508, 14510,	23217, 23283,	\hintfont . . . . . 4503,
14537, 14538,	23290, 23292,	4511, 4565, 4572, 4577
14541, 14542,	23751, 23981,	\hintscolumnwidth .
14599, 14600,	24053, 24055,	. . . . . 4531,
14603, 14604,	24102, 24104,	4545, 4549, 4557,



4565, 4571, 4577, 4634	20117, 20883, 20890	13955, 13959,
\hintstyle . . . . . 4511	\hrulefill 28, 232, 544,	13962, 13963,
\hline 16022, 16024, 16030	731, 965, 1211,	15658, 15662,
\HLOFF . . . . . 4120	8810, 8963, 9237,	16056, 16067,
\HLON . . . . . 4114	10866, 11165,	16070, 16097,
\HLTR@@LTrfootnotetext	12948, 13475,	16180, 16181,
. . 11190, 14708,	15356, 15434,	16188, 16211,
14739, 14816,	17392, 18338,	16947, 16951,
14834, 14876,	18761, 18915, 19097	17184, 17264,
14978, 15032, 15052	\hspace . 41, 55, 71, 244,	17266, 17274,
\HLTR@@mpLTrfootnotetext	258, 273, 624, 931,	17310, 17314,
. . 11196, 14737,	1125, 1870, 2064,	17318, 17321,
14751, 14775, 14838	2143, 2144, 2145,	17326, 17329,
\hoffset . . . . . 4044	2160, 2161, 2162,	17379, 17383,
\hold@viper . . . . 9671,	2177, 2178, 2179,	17387, 18025,
9674, 9730, 9733,	2198, 2214, 2230,	18027, 18195,
9801, 9804, 9988,	3990, 4389, 7254,	18254, 18704,
9989, 10000,	7255, 7315, 7359,	18766, 18782,
10001, 10013,	7403, 8000, 8720,	18825, 19335,
10014, 10026,	8897, 9345, 9605,	19346, 19348,
10061, 10063, 10064	9608, 9625, 9629,	19417, 19418,
\holder . 17866, 17869,	11240, 11254,	19762, 19799,
17878, 17888,	11268, 11280,	19801, 20074,
17889, 17907,	11291, 11302,	20086, 20088,
17911, 17916,	11497, 11559,	20157, 20158,
17920, 17932,	11577, 11589,	20523, 20560,
17936, 17943, 17947	11602, 11665,	20562, 20847,
\href . . . . . 4601, 4602,	11683, 11694,	20859, 20861,
4605, 4606, 4609, 4610	11706, 11771,	20930, 20931,
\HRTL@@mpRTLfootnotetext	11789, 11801,	21288, 21325,
. . 11198, 14726,	11814, 11880,	21327, 23230,
14750, 14764, 14839	11898, 11910,	23233, 23238,
\HRTL@@RTLfootnotetext	11923, 11989,	23242, 23246,
. . 11192, 14707,	12007, 12019,	23250, 23254,
14728, 14801,	12032, 12098,	23258, 23262,
14835, 14914,	12116, 12128,	23266, 23486,
15009, 15031, 15049	12141, 12207,	23507, 23511,
\hrule 31, 235, 540, 725,	12225, 12237,	23678, 23688,
960, 1205, 7244,	12250, 12316,	23832, 24205,
7245, 7255, 7256,	12334, 12346,	24249, 24410, 24414
8429, 8804, 8957,	12359, 12425,	\hskip . . . . 14, 28, 209,
9067, 9073, 9079,	12443, 12455,	232, 305, 309, 534,
9085, 9233, 9913,	12468, 12505,	544, 654, 655, 694,
10284, 10862,	12666, 12678,	731, 882, 883, 896,
11161, 11210,	12690, 12724,	944, 965, 1137,
12944, 13478,	12727, 12738,	1138, 1178, 1211,
13480, 13512,	12741, 12752,	1358, 1411, 1412,
13922, 15359,	12755, 13221,	1450, 1474, 1477,
15430, 16211,	13222, 13565,	1570, 1574, 1600,
17344, 17395,	13582, 13598,	1607, 1623, 1630,
17964, 18332,	13625, 13639,	1644, 1651, 1665,
18755, 18911,	13653, 13670,	1672, 1912, 1914,
19093, 19370,	13671, 13817,	1916, 1918, 1921,
19377, 20110,	13922, 13952,	1979, 1982, 1990,



2013, 2020, 2059,	17521, 17523,	10467, 10470,
2068, 2083, 2087,	17525, 17527,	10474, 10476,
2110, 2119, 2458,	17530, 17532,	10480, 10482,
3114, 3151, 3156,	17535, 17537,	10486, 10489,
3192, 3199, 3211,	17540, 17542,	10492, 10496,
3266, 3294, 3297,	17544, 17547,	10498, 10503,
3432, 3442, 3517,	17549, 17551,	10505, 10818,
3518, 3521, 3536,	17554, 17556,	11152, 11346,
3537, 3540, 4648,	17558, 17572,	11358, 11370,
7961, 8401, 8445,	17814, 17821,	13756, 13768,
8446, 8449, 8451,	18284, 18285,	13780, 14477,
8452, 8455, 8732,	18322, 18338,	14493, 14506,
8733, 8770, 8810,	18637, 18656,	14518, 14531,
8909, 8910, 8947,	18657, 18694,	14540, 14548,
8963, 9226, 9237,	18761, 18901,	14593, 14602,
9417, 9420, 9487,	18915, 19086,	14610, 14623,
9658, 9665, 9669,	19097, 19175,	14636, 14648,
9670, 9955, 9963,	19177, 19184,	14672, 15351,
9968, 9969, 10349,	19186, 19222,	15352, 19734,
10350, 10353,	19224, 19233,	19743, 19839,
10363, 10364,	19235, 19321,	19849, 19852,
10407, 10798,	19377, 19384,	19854, 20495,
10866, 11165,	20060, 20117,	20504, 20600,
12492, 12917,	20124, 20833,	20610, 20613,
12948, 13133,	20890, 20897,	20615, 21260,
13138, 13142,	21597, 21603,	21269, 21365,
13143, 13198,	21615, 21620,	21375, 21378,
13214, 13475,	21836, 21865,	21380, 21560,
14055, 14062,	22026, 22057,	21561, 21842,
14066, 14067,	22080, 22097,	21854, 24535,
14340, 14342,	22114, 22131,	24539, 24544,
14343, 14346,	22148, 22165,	24546, 24550, 24552
14351, 14354,	22183, 22202,	\hss . . . . 457, 516, 535,
14356, 14357,	22222, 22257,	668, 695, 897, 912,
15262, 15270,	22449, 22452,	1151, 1179, 1905,
15278, 15286,	22658, 22690,	2338, 2360, 3153,
15295, 15303,	23165, 23212,	3154, 3715, 3990,
15312, 15320,	23222, 23277,	4059, 8020, 8746,
15356, 15380,	23975, 24052,	8771, 8923, 8948,
15412, 15434,	24059, 24063,	9151, 9210, 9227,
15569, 17054,	24064, 24297,	9488, 9664, 9668,
17061, 17065,	24299, 24313, 24316	9723, 9729, 9961,
17066, 17231,	\hspace . 108, 109, 228,	9966, 9973, 9980,
17243, 17255,	229, 553, 3030,	10352, 10362,
17310, 17314,	3037, 4566, 4571,	10407, 10416,
17318, 17321,	4577, 6997, 7004,	10632, 10635,
17322, 17326,	7226, 7904, 7905,	10637, 10640,
17329, 17330,	7911, 7912, 7918,	10643, 10799,
17392, 17495,	7919, 7925, 7926,	10811, 10910,
17498, 17500,	8053, 8079, 8080,	11007, 11065,
17503, 17505,	10271, 10444,	11345, 11351,
17507, 17510,	10447, 10451,	11357, 11363,
17512, 17514,	10453, 10458,	11369, 11375,
17516, 17519,	10460, 10464,	12901, 12918,



13010,	13137,	9447, 9764, 9771,	21673,	21685,
13141,	13173,	9779, 9793, 9804,	21800,	23526,
13179,	13331,	9821, 9823, 9826,	23528,	23934,
13755,	13761,	9828, 9842, 9855,	24277, 24287, 24291	
13767,	13773,	9859, 9862, 9863,	\ht@hold@viper . . . .	
13779,	13785,	9866, 9872, 9890,	9802, 9804, 10026,	
14008,	14014,	9891, 9904, 9934,	10027, 10061, 10062	
14061,	14065,	10026, 10061,	\ht@strip 17195, 17196,	
14239,	14285,	10292, 10301,	17197, 17198,	
14343,	14357,	10313, 10322,	17199, 17202, 17204	
15582,	15589,	10330, 10340,	\ht@viper . . . . . 9763,	
15594,	16065,	10342, 10358,	9769, 9770, 9793,	
16073,	16475,	10387, 10397,	9794, 9795, 9806,	
16736,	16817,	10399, 10412,	9960, 9965, 9972, 9979	
17060,	17064,	10783, 11506,	\httplink . . . . . 4603	
17156,	17162,	11612, 11617,	\Huge . 7987, 9070, 9082,	
17300,	17301,	11715, 11720,	9262, 9270, 11094,	
17311,	17312,	11824, 11829,	11103, 12931,	
17828,	17838,	11933, 11938,	12939, 19120, 19128	
18064,	18075,	12042, 12047,	\huge . . . . . 564,	
18076,	18077,	12151, 12156,	7841, 7843, 7986,	
18298,	18323,	12260, 12265,	9061, 9256, 10829,	
18670,	18695,	12369, 12374,	10838, 11088,	
18786,	18829,	12478, 12483,	12926, 19115,	
18885,	18902,	12496, 12567,	19459, 20199, 20972	
19011,	19070,	12629, 13082,	\hv@Bottom . . . . . 14572	
19087,	19323,	13842, 13849,	\hv@Center . . . 14476,	
19359,	19884,	13866, 13873,	14487, 14527,	
19894,	20062,	13874, 13887,	14589, 14617, 14670	
20099,	20646,	13891, 13914,	\hv@figure . 14441, 14459	
20656,	20835,	14085, 14090,	\hv@floatObject . . .	
20872,	21411,	14232, 14233,	. . . . . 14402, 14406	
21421,	21609,	14235, 14278,	\hv@floatType . 14432,	
22456,	22565,	14279, 14281,	14441, 14459, 14677	
23491,	23493,	14414, 15495,	\hv@Height . . . . . 14414	
23498,	23504,	15512, 16031,	\hv@label . . . . . 14383	
23724,	23842,	16084, 16099,	\hv@Left . . . 14417, 14485	
23893,	23894,	16114, 16116,	\hv@longCap . . . . . 14382	
23896,	23897,	16117, 16209,	\hv@Right . . 14418, 14474	
23899,	23900,	16216, 16219,	\hv@shortCap . . . . .	
23905,	23906,	17038, 17042,	. 14381, 14447, 14465	
23963,	23964,	17047, 17138,	\hv@Top . 14500, 14536,	
23965,	23966,	17142, 17147,	14556, 14598, 14630	
24058,	24062,	17198, 17200,	\hv@Width . . 14412, 14435	
24101, 24107, 24301		17398, 17404,	\hv@Zero . . . 14401, 14664	
\ht 385, 1460, 1493, 1775,		17408, 17878,	\hvAboveCaptionSkip	
1785, 1791, 1804,		17936, 17947,	. . . . . 14580, 14583	
1892, 1972, 1974,		17952, 17953,	\hvBelowCaptionSkip	
1976, 1978, 1998,		17954, 17955,	. . . . . 14564, 14567	
2007, 2009, 2027,		17959, 17974,	\hvCaptionBox . 14436,	
2036, 2038, 2076,		18091, 18114,	14453, 14495,	
2078, 2080, 2082,		19161, 19203,	14497, 14508,	
2088, 3278, 3705,		19206, 19261,	14510, 14520,	
3982, 9436, 9445,		19268, 21637,	14522, 14528,	



14529, 14537,	\hvSet@floatCapSep	\Hy@LT@currentHref
14538, 14545,	..... 14493,	..... 15238, 15249
14546, 14557,	14506, 14518,	\Hy@LT@LTRfootnotetext
14558, 14564,	14531, 14540,	..... 14866, 14875
14567, 14573,	14548, 14593,	\Hy@LT@RTLfootnotetext
14574, 14581,	14602, 14610,	..... 14904, 14913
14584, 14590,	14623, 14636, 14648	\Hy@MakeRemoteAction
14591, 14599,	\hvSet@floatPos .. 14430	..... 15089
14600, 14607,	\hvSet@objectAngle	\Hy@maketitle@end .
14608, 14625,	..... 14401, 14405	. 15035, 15040, 15042
14627, 14638,	\hvSet@objectPos ..	\Hy@maketitle@optarg
14640, 14650, 14652	. 14474, 14476, 14670	..... 15033, 15038
\hvCapWidth ... 14410,	\hvSet@rotAngle ...	\Hy@pstringD 15088, 15107
14412, 14414,	. 14395, 14664, 14667	\Hy@pstringdef ....
14416, 14420,	\Hy@Acrobatmenu .. 15181	.. 15087, 15088,
14422, 14437, 14455	\Hy@backout ..... 15208	15122, 15123, 15154
\hvFloat ..... 14384	\Hy@BeginAnnot ....	\Hy@pstringF .....
\hvMaxCapWidth 14395,	.. 15064, 15084,	.. 15085, 15086,
14396, 14417,	15121, 15153, 15182	15087, 15102,
14418, 14419, 14422	\Hy@bidipoem@footnotetext	15122, 15135, 15140
\hvObjectBox .....	..... 14937, 14946	\Hy@pstringP 15123, 15140
.. 14399, 14402,	\Hy@bidipoem@LTRfootnotetext	\Hy@pstringURI ....
14404, 14408,	..... 14968, 14977	..... 15154, 15167
14414, 14489,	\Hy@bidipoem@RTLfootnotetext	\Hy@raisedlink 14757,
14491, 14502,	..... 14999, 15008	14768, 14779,
14504, 14514,	\Hy@CleanupFile .. 15086	14790, 14805,
14516, 14532,	\Hy@colorlink . 15114,	14820, 14880,
14533, 14541,	15146, 15175, 15201	14918, 14951,
14542, 14549,	\Hy@endAnnot .....	14982, 15013, 15250
14550, 14557,	.. 15071, 15117,	\Hy@saved@footnotemark
14560, 14565,	15149, 15178, 15204	..... 15025, 15044
14568, 14573,	\Hy@endcolorlink . 15073	\Hy@saved@footnotetext
14576, 14580,	\Hy@footnote@currentHlabel	..... 15026, 15047
14583, 14594,	. 14793, 14808, 14823	\Hy@SetNewWindow ..
14595, 14603,	\Hy@footnote@currentHref	..... 15109, 15137
14604, 14611,	..... 14755,	\Hy@setpdfborder ..
14612, 14619,	14758, 14766,	..... 15095,
14621, 14632,	14769, 14777,	15129, 15160, 15189
14634, 14644, 14646	14780, 14788,	\Hy@tabularx@hook .
\hvObjectWidth ....	14791, 14794,	..... 14832, 14844
.. 14408, 14412,	14803, 14806,	\Hy@temp@menu 15183, 15196
14416, 14417, 14418	14809, 14818,	\Hy@xspace@end ....
\hvOBox .... 14402, 14406	14821, 14824,	.. 15080, 15116,
\hvSet@capAngle ..	14867, 14905,	15148, 15177, 15203
..... 14435, 14454	14938, 14969, 15000	\Hy@LTR@saved@LTRfootnotetext
\hvSet@capPos .....	\Hy@gttemp .. 14843, 14848	..... 15028, 15053
.. 14417, 14418,	\Hy@href@nextactionraw	\Hy@Org@maketitle ..
14485, 14556, 14572	..... 15110,	. 15023, 15034, 15039
\hvSet@capVPos 14487,	15142, 15171, 15197	\Hy@Org@TX@endtabularx
14500, 14527,	\Hy@href@page .... 15105	..... 14831
14536, 14589,	\Hy@linkcounter ...	\hyper@anchor 14755,
14598, 14617, 14630	..... 10683, 10688	14758, 14766,
\hvSet@capWidth 14412,	\Hy@linktoc ..... 14686	14769, 14777,
14414, 14419, 14420		14780, 14788,



14791, 14803,	\if . . . . . 361, 362, 363,	. . . . . 15795
14806, 14818,	365, 366, 367, 368,	\if@bidi@amsthmloaded@
14821, 14878,	369, 372, 373, 374,	. . . . . 15798
14881, 14916,	398, 404, 1386,	\if@bidi@animateloaded@
14919, 14949,	1387, 1388, 1390,	. . . . . 15801
14952, 14980,	1391, 1392, 1393,	\if@bidi@arabxetexloaded@
14983, 15011, 15014	1394, 1395, 1396,	. . . . . 16000
\hyper@anchorend . 15251	1399, 1400, 1401,	\if@bidi@arrayloaded@
\hyper@anchorstart 15251	1424, 1425, 1426,	. . . . . 15934
\hyper@link . . . . . 15079	1428, 1429, 1430,	\if@bidi@arydshlnloaded@
\hyper@linkend . . . .	1431, 1432, 4348,	. . . . . 15958
. . 14690, 14694,	4354, 4357, 4360,	\if@bidi@blank . . . .
14698, 14700,	4363, 5860, 5915,	. . . 4959, 5468, 5475
15080, 15213, 15216	5919, 5925, 5929,	\if@bidi@breqnloaded@
\hyper@linkfile . . 15082	5970, 6053, 6436,	. . . . . 15804
\hyper@linkstart . .	9306, 9325, 9358,	\if@bidi@calsloaded@
. . 14690, 14694,	9359, 9360, 13407,	. . . . . 15807
14698, 14700,	13431, 13665,	\if@bidi@captionloaded@
15080, 15209, 15216	15465, 16013,	. . . . . 15810
\hyper@linkurl . . . 15151	16015, 16017,	\if@bidi@colorloaded@
\hyper@makecurrent 15237	17746, 21649,	. . . . . 15816
\hyper@nat@current 15210	21683, 21688,	\if@bidi@colortblloaded@
\hyper@natlinkbreak	21775, 21776,	. . . . . 15835
. . . . . 15215	21777, 21778,	\if@bidi@croplloaded@
\hyper@natlinkend 15212	21779, 21780,	. . . . . 15813
\hyper@natlinkstart	21781, 21783,	\if@bidi@csdef . 3890,
. . . . . 15207	21784, 21785,	4923, 4972, 12525,
\hyper@pageduration	21786, 21787,	17342, 17401, 17477
. . . . . 1971, 2075	21790, 21791,	\if@bidi@csmacro . . 4971
\hyper@pagetransition	21792, 23837,	\if@bidi@csprimitive
. . . . . 1971, 2075	23838, 23931,	. . . . . 4981
\hyperref 13755, 13759,	23948, 23955,	\if@bidi@csundef . .
13761, 13767,	23956, 23957,	. . . . 4655, 4658,
13771, 13773,	23958, 23959, 23960	4661, 4665, 4670,
13779, 13783, 13785	\if@allcaps . . . . 752,	4929, 5008, 5043,
\hypersetup . . . . 4449,	761, 769, 1004,	5068, 5097, 5122,
4457, 8097, 8156, 8173	1013, 1021, 1254,	5154, 5160, 5188,
\hypertarget . . . . .	1263, 1271, 8840,	5194, 5203, 5220,
. 19728, 20489, 21254	8849, 8857, 9017,	5745, 6641, 6693,
\hyphenpenalty . . . 6,	9026, 9034, 18388,	11171, 11172,
105, 201, 225,	18397, 18405,	11185, 11186, 24431
623, 930, 1124,	18527, 18536, 18544	\if@bidi@cutdloaded@
8719, 8896, 15348,	\if@altsecnumformat	. . . . . 15823
15372, 18253,	. 19638, 20377, 21150	\if@bidi@cutwinloaded@
18703, 18765, 18908	\if@bib@break@ 19648,	. . . . . 15820
\HyRTL@saved@RTLfootnotetext	19673, 19688,	\if@bidi@dblfnloaded@
. . . . . 15027, 15050	19704, 20409,	. . . . . 15826
	20434, 20449,	\if@bidi@def . . . . . 4941
	20465, 21174,	\if@bidi@defmacro .
	21199, 21214, 21230	. . . . 4964, 4965,
\i . . . . . 6164,	\if@bibchapter . . . 21951	4973, 5367, 5386, 5533
6165, 6177, 6189, 6190	\if@bidi@amsmathloaded@	\if@bidi@defparam .
\ialign . . . 393, 21642,	. . . . . 15792	. . . . . 5388,
21680, 23751, 23939	\if@bidi@amstextloaded@	5482, 5483, 5535
\IeC . . . . . 15498		

# I



\if@bidi@defprimitive	\if@bidi@longtableloaded@	\if@bidi@supertabularloaded@
..... 4975	..... 15955	..... 15949
\if@bidi@defprotected	\if@bidi@mdf@RTL ..	\if@bidi@tablsloaded@
..... 5395,	..... 16171,16178	..... 15982
5491, 5492, 5546	\if@bidi@mdframedloaded@	\if@bidi@tabularyloaded@
\if@bidi@diagboxloaded@	..... 15871	..... 15985
..... 15829	\if@bidi@midfloatloaded@	\if@bidi@tikzloaded@
\if@bidi@draftwatermarkloaded@	..... 15874	..... 15925
..... 15889	\if@bidi@minitocloaded@	\if@bidi@titlesecloaded@
\if@bidi@empheqloaded@	..... 15967	..... 15928
..... 15892	\if@bidi@multicolloaded@	\if@bidi@titletocloaded@
\if@bidi@fancyboxloaded@	..... 15961	..... 15931
..... 15883	\if@bidi@multienumloaded@	\if@bidi@tocbasicloaded@
\if@bidi@fancyhdrloaded@	..... 15964	..... 15988
..... 15886	\if@bidi@natbibloaded@	\if@bidi@tocbibindloaded@
\if@bidi@fancyvrbloaded@	..... 15970	..... 15994
..... 16006	\if@bidi@newfloatloaded@	\if@bidi@tocstyleloaded@
\if@bidi@floatloaded@	..... 15973	..... 15991
..... 15838	\if@bidi@ntheoremloaded@	\if@bidi@todonotes@figposition@right
\if@bidi@floatrowloaded@	..... 15877	.. 23319, 23417,
..... 15841	\if@bidi@overpicloaded@	23422, 23429, 23435
\if@bidi@flowframloaded@	..... 15895	\if@bidi@todonotes@textdirection@RTL
..... 15844	\if@bidi@patchable	..... 23318,
\if@bidi@fontspecloaded@	..... 5355,5356	23352, 23392, 23426
..... 15997	\if@bidi@pdfencrypt	\if@bidi@undef ....
\if@bidi@framedloaded@	..... 3638,3873	.... 4947,5012,
..... 15847	\if@bidi@pdfmark	5264, 5275, 5294,
\if@bidi@ftnrightloaded@	..... 3641,	5298, 5302, 5306,
..... 15850	3885, 3941, 4005	5316, 5320, 5324,
\if@bidi@geometryloaded@	\if@bidi@pdfpagesloaded@	5328, 5364, 5383, 5530
..... 15865	..... 15898	\if@bidi@void@mpfootins
\if@bidi@graphicxloaded@	\if@bidi@perpage@footnote	. 11169,11437,11445
..... 15862	..... 3633,3860	\if@bidi@void@footins
\if@bidi@hvfloatloaded@	\if@bidi@pgfloaded@	. 11168,12800,12807
..... 15868	..... 15916	\if@bidi@wrapfigloaded@
\if@bidi@hyperrefloaded@	\if@bidi@picinparloaded@	..... 15859
..... 15880	..... 15919	\if@bidi@xcolorloaded@
\if@bidi@lettrineloaded@	\if@bidi@polyglossialloaded@	..... 15832
..... 15901	..... 16003	\if@bidi@xltextraloaded@
\if@bidi@linenoloaded@	\if@bidi@pstricksloaded@	..... 15853
..... 15904	..... 15913	\if@bidi@xtabloaded@
\if@bidi@list@minipage@parbox	\if@bidi@quotchaploaded@	..... 15952
..... 3649,	..... 15922	\if@bidi@xunicodeloaded@
23788, 23848,	\if@bidi@rotatingloaded@	..... 15856
23857, 23866,	..... 15979	\if@capbreak .....
23875, 23888,	\if@bidi@soulloaded@	. 19842,20603,21368
23889, 23903, 23904	..... 15940	\if@captionabove ..
\if@bidi@list@minipage@parbox	\if@bidi@supertabularloaded@	..... 19777,
..... 3650,	..... 15937	19783, 19877,
23796, 23850,	\if@bidi@subfigloaded@	19888, 20538,
23859, 23868, 23877	..... 15943	20544, 20639,
\if@bidi@listingsloaded@	\if@bidi@subfigureloaded@	20650, 21303,
..... 15907	..... 15946	21309, 21404, 21415
		\if@cftdopart .... 22008



<code>\if@cfthaschapter</code> .	17086, 17192,	<code>\if@oldtoc</code> . 658, 684,
..... 21999,	24030, 24077, 24267	886, 902, 1141,
22003, 22009,		1168, 8736, 8760,
22030, 22042, 22064	..... 10244, 10246	8913, 8937, 18288,
<code>\if@cfthaspart</code> ... 21995		18312, 18660, 18684
<code>\if@chapterentrywithdots</code>	<code>\if@firstfooterelement</code>	<code>\if@openright</code> .....
..... 20698, 21463	..... 10148, 10151	.. 8332, 9274, 11107
<code>\if@colour</code> ..... 4432	<code>\if@hboxRconstruct</code>	<code>\if@ovb</code> ..... 13090
<code>\if@colourgreen</code> 10079,	..... 3637,	<code>\if@ovl</code> ..... 13088
10108, 10177, 10203	3944, 4893, 4899,	<code>\if@ovr</code> ..... 13087
<code>\if@colourgrey</code> 10083,	13664, 23795,	<code>\if@ovt</code> ..... 13089
10122, 10181, 10215	23819, 23850,	<code>\if@pboxsw</code> ..... 23844
<code>\if@colourorange</code> ..	23859, 23868,	<code>\if@restonecol</code> ....
..... 10077,	23877, 23888,	..... 604, 620,
10101, 10175, 10197	23889, 23903, 23904	869, 1121, 8716,
<code>\if@coloured</code> . 10081,	<code>\if@ignore</code> ... 5712, 5714	8893, 9103, 18250,
10115, 10179, 10209	<code>\if@inlabel</code> ..... 9305	18505, 18964, 21991
<code>\if@compatibility</code> .	<code>\if@inltxdoc</code> ..... 21944	<code>\if@reversemargin</code> 24272
.. 518, 670, 746,	<code>\if@insert</code> ..... 10059	<code>\if@right@column@shrink</code>
914, 998, 1153,	<code>\if@komalongtable</code> .	... 9840, 9869, 9944
1248, 8834, 9011,	. 19874, 20636, 21401	<code>\if@right@column@spread</code>
18382, 18521,	<code>\if@left@column@shrink</code>	..... 9938
22034, 22569, 23919	..... 9922	<code>\if@rjfield</code> ..... 24311
<code>\if@contcw</code> . 16903, 16932	<code>\if@left@column@spread</code>	<code>\if@rl</code> ..... 3631
<code>\if@conthang</code> ..... 16913	..... 9839, 9916	<code>\if@rl@footnote</code> ... 3648
<code>\if@contindent</code> ... 16919	<code>\if@LTRbibitems</code> . 87,	<code>\if@rlmain</code> ..... 3630
<code>\if@DEBUG</code> ..... 4403	290, 572, 707,	<code>\if@rot@twoside</code> 19165,
<code>\if@displaypagenumbers</code>	970, 1220, 2389,	19170, 19180,
..... 4611, 4614	3644, 4629, 8786,	19210, 19216, 19228
<code>\if@donumindex</code> ....	8974, 9283, 10845,	
..... 21952, 21971	11116, 12953,	<code>\if@RTL</code> ... 12, 13, 25,
<code>\if@dotocbib</code> ..... 21913	15329, 16981,	87, 104, 107, 108,
<code>\if@dotocind</code> 21959, 21976	17566, 18343,	109, 173, 180, 189,
<code>\if@extrafootnotefeatures</code>	18737, 18931,	207, 208, 224, 227,
..... 3646, 3845	19134, 19664,	228, 229, 290, 305,
<code>\if@fcolmade</code> ... 9685,	20425, 21190, 21920	309, 513, 530, 533,
9744, 13146,	<code>\if@LTRmarginpar</code> 3643,	534, 557, 572, 624,
13186, 13270,	24296, 24301, 24305	637, 648, 649, 654,
14021, 14074,	<code>\if@mainmatter</code> . 8304,	665, 690, 693, 694,
14103, 17074,	9060, 9255, 11087,	707, 875, 876, 882,
17171, 24071, 24114	18127, 20380, 20402	892, 895, 896, 909,
<code>\if@ff@nwp</code> ..... 13238	<code>\if@minipage</code> . 7049, 16972	931, 970, 1125,
<code>\if@files</code> .....	<code>\if@mparswitch</code> ... 24269	1131, 1132, 1137,
4682, 5033, 5039,	<code>\if@newlist</code> ... 13286,	1148, 1174, 1177,
5058, 5064, 5087,	13318, 24325, 24400	1178, 1196, 1220,
5093, 5112, 5118,	<code>\if@nobreak</code> .... 6637,	1359, 1360, 1471,
5144, 5150, 5178, 5184	13939, 16182, 18188	1472, 1485, 1496,
<code>\if@firstcolumn</code> ...	<code>\if@nonlatin</code> .....	1511, 1567, 1573,
9636, 9699, 9760,	.. 336, 348, 3632,	1597, 1606, 1620,
10032, 10051,	3858, 4905, 4911,	1629, 1641, 1650,
13114, 13150,	9341, 9343, 16166	1662, 1671, 1851,
13978, 14027,	<code>\if@noparlist</code> ..... 8663	2389, 2471, 2479,
14115, 16986,	<code>\if@noskipsec</code> .. 9304,	2498, 2646, 2829,
	13940, 16183, 18189	2836, 2843, 3025,
		3032, 3077, 3082,



3168,	3223,	3229,	14314,	14321,	18651,	18656,
3339,	3361,	3415,	14486,	14588,	18667,	18690,
3424,	3434,	3456,	14690,	14698,	18693,	18694,
3497,	3506,	3525,	15080,	15116,	18704,	18717,
3631,	3665,	3943,	15148,	15177,	18737,	18766,
3950,	4629,	4869,	15203,	15209,	18882,	18897,
4875,	5032,	5057,	15213,	15216,	18900,	18901,
5086,	5111,	5143,	15261,	15269,	18906,	18907,
5177,	7960,	7961,	15277,	15285,	18931,	19067,
8078,	8079,	8080,	15293,	15302,	19082,	19085,
8720,	8726,	8727,	15310,	15319,	19086,	19113,
8732,	8743,	8766,	15329,	15347,	19125,	19134,
8769,	8770,	8786,	15350,	15351,	19245,	19247,
8897,	8903,	8904,	15352,	15367,	19251,	19255,
8909,	8920,	8943,	15378,	15379,	19257,	19262,
8946,	8947,	8974,	15413,	15417,	19266,	19269,
9058,	9069,	9071,	15420,	15425,	19273,	19275,
9207,	9222,	9225,	15546,	15553,	19279,	19304,
9226,	9253,	9267,	15561,	15581,	19312,	19337,
9283,	9302,	9314,	15591,	16066,	19350,	19636,
9327,	9402,	9443,	16138,	16148,	19637,	19664,
9444,	9448,	9449,	16155,	16174,	19712,	19713,
9451,	9458,	9464,	16257,	16265,	19714,	19716,
9483,	9486,	9487,	16456,	16782,	19764,	19768,
9493,	9498,	9605,	16862,	16863,	20043,	20051,
9608,	9625,	9629,	16864,	16865,	20076,	20090,
10450,		10457,	16866,	16867,	20376,	20425,
10473,		10479,	16946,	16948,	20473,	20474,
10495,		10502,	16981,	17226,	20475,	20477,
10631,		10711,	17230,	17231,	20525,	20529,
10726,		10748,	17238,	17243,	20816,	20824,
10749,		10750,	17250,	17255,	20849,	20863,
10751,		10774,	17566,	17645,	21149,	21190,
10794,		10797,	17665,	17680,	21238,	21239,
10798,		10808,	17694,	17726,	21240,	21242,
10822,		10835,	17856,	17906,	21290,	21294,
10845,		11062,	17981,	18035,	21559,	21562,
11085,		11100,	18036,	18039,	21592,	21612,
11116,		11137,	18043,	18075,	21810,	21855,
11140,		11145,	18076,	18077,	21872,	21892,
11153,		12898,	18122,	18124,	21895,	21900,
12913,		12916,	18130,	18141,	21904,	21905,
12917,		12924,	18143,	18154,	21920,	22016,
12936,		12953,	18156,	18167,	22017,	22018,
13222,		13379,	18169,	18178,	22026,	22047,
13665,		13812,	18180,	18197,	22048,	22049,
13814,		14211,	18217,	18233,	22057,	22070,
14213,		14216,	18234,	18254,	22071,	22072,
14217,		14218,	18267,	18278,	22080,	22087,
14224,		14226,	18279,	18284,	22088,	22089,
14243,		14246,	18295,	18318,	22097,	22104,
14253,		14262,	18321,	18322,	22105,	22106,
14268,		14272,	18343,	18638,	22114,	22121,
14275,		14289,	18639,	18650,	22122,	22123,



22131, 22138,	11740, 11785,	24120, 24341,
22139, 22140,	11849, 11894,	24347, 24376, 24392
22148, 22155,	11958, 12002,	\if@RTLmarginpar 3642,
22156, 22157,	12067, 12111,	24296, 24301, 24305
22165, 22173,	12176, 12221,	\if@RTLtab . 362, 363,
22174, 22175,	12285, 12330,	379, 382, 404, 406,
22183, 22192,	12394, 12439,	1367, 1368, 1387,
22193, 22194,	12592, 12613,	1388, 1425, 1426,
22202, 22212,	12654, 12709,	3636, 4267, 4271,
22213, 22214,	12718, 13559,	4272, 4881, 4887,
22222, 22247,	13608, 13648, 13649	9362, 9364, 9385,
22248, 22249,	\if@RTLbibitems . 87,	9392, 9414, 9415,
22257, 22297,	290, 572, 707,	9428, 9439, 16014,
22298, 22299,	970, 1220, 2389,	16016, 16127,
23092, 23154,	3645, 4629, 8786,	16130, 21627,
23155, 23156,	8974, 9283, 10845,	21631, 21632,
23162, 23165,	11116, 12953,	21649, 21657,
23212, 23272,	15329, 16981,	21663, 21688,
23277, 23300,	17566, 18343,	21776, 21777,
23307, 23367,	18737, 18931,	23748, 23923,
23370, 23454,	19134, 19664,	23927, 23928,
23489, 23497,	20425, 21190, 21920	23948, 23956, 23957
23524, 23525,	\if@RTLcolumnfootnotes	\if@sectionentrywithdots
23528, 23529,	. . . 3647, 11498,	. . . . . 19936
23531, 23568,	11499, 11502,	\if@sentedir . . . . . 3945
23572, 23625,	11503, 11538,	\if@specialpage . . .
23630, 23676,	11590, 11646,	. . . . . 13241, 24336
23677, 23704,	11695, 11750,	\if@star . . . . . 18111
23705, 23708,	11802, 11859,	\if@tab@rl . . . . . 3636
23712, 23789,	11911, 11968,	\if@tablecaptionabove
23797, 23803,	12020, 12077,	. 19906, 20668, 21433
23809, 23822,	12129, 12186,	\if@tempswa . . . . 1876,
23890, 23891,	12238, 12295,	1886, 1895, 1910,
23893, 23896,	12347, 12404, 12456	6479, 6524, 10346,
23899, 23903,	\if@RTLmain . . . . 1503,	10403, 19487,
23904, 23905,	1936, 1944, 1953,	20227, 21000, 22751
23906, 23908,	1961, 1983, 2000,	\if@thmmarks . . 17628,
23910, 23911,	2014, 2029, 2817,	17632, 17649, 17653
23916, 23963,	2909, 2911, 2914,	\if@titlecentered .
23964, 23970,	2946, 2957, 2970,	. . . . . 1341, 18618
23975, 24296,	2977, 3055, 3148,	\if@titlepage . . . . .
24301, 24305,	3155, 3247, 3551,	. . 411, 625, 733,
24313, 24314,	3630, 3664, 3683,	932, 985, 1184,
24315, 24316,	3942, 3949, 3968,	1235, 9105, 10868,
24411, 24414,	9501, 9524, 9547,	10961, 12968,
24422, 24432,	9570, 9954, 10438,	18255, 18369,
24534, 24544, 24550	10563, 10566,	18506, 18705,
\if@RTL@footnote . .	10572, 10580,	18768, 18965,
. . . . . 36, 239,	10590, 10600,	19388, 20128, 20901
2142, 2192, 2194,	10606, 10620,	\if@titlepageiscoverpage
3648, 3946, 7328,	13384, 14339,	. 19393, 20133, 20906
11235, 11276,	14349, 14366,	\if@tocstyle@penalties
11528, 11573,	14372, 15599,	. . . . . 23075, 23184
11637, 11679,	17183, 17340,	



\if@todonotes@authorgiven	\ifbeamer@plainframe	23100,	23109,
..... 23343,	..... 3111	23120,	23124,
23354, 23379, 23396	\ifbeamer@sb@subsection	23134,	23146,
\if@todonotes@disabled	... 3319, 3330, 3338	23200,	23228,
..... 23337, 23338	\ifbeamer@theme@subsection	23229,	23237,
\if@todonotes@dviStyle	..... 3079	23241,	23245,
..... 23340, 23374	\ifbeamer@tree@showhooks	23249,	23253,
\if@ttb@rotate ... 13378	..... 3514, 3533	23257, 23261, 23265	
\if@twocolumn ... 98,	\ifbeamer@coloreempty	\ifdefined ... 4942, 4948	
218, 458, 591, 607,	..... 1857,	\ifdefining ..... 5930	
634, 641, 809, 856,	2566, 2568, 2571,	\ifdfn@allowcbreak	
941, 952, 1061,	2581, 2583, 2586,	..... 10299, 10320	
1108, 1193, 1200,	2596, 2598, 2601,	\ifdfn@ruleboth ...	
1311, 3684, 3690,	2828, 2835, 2863, 2865	..... 10357, 10411	
8258, 8703, 8880,	\ifbidi@autofootnoterule	\ifdfn@trysingle ..	
9090, 9152, 10911,	..... 2192,	..... 10338, 10395	
11008, 13011,	2208, 2224, 13385,	\ifdim 1461, 1462, 1773,	
14117, 15341,	13620, 13634, 13648	1780, 1792, 1814,	
16845, 18237,	\ifbidi@in@label ..	1873, 1875, 1876,	
18264, 18271,	..... 5924, 5926	1881, 1883, 1885,	
18445, 18492,	\IfbidiPackageVersion	1887, 1888, 1904,	
18586, 18714,	..... 3617	1920, 3106, 3145,	
18721, 18830,	\IfbidiPackageVersionBefore	3180, 3516, 3535,	
18951, 19012,	..... 3611	3606, 3612, 3618,	
19554, 20294,	\IfbidiPackageVersionLater	7062, 7629, 8398,	
21067, 21946,	..... 3605	8435, 8437, 8496,	
23992, 24266, 24425	\ifblank ..... 2347, 3000	8497, 8499, 8505,	
\if@twoside .....	\ifblendcolors 23536,	8545, 8557, 8639,	
... 8249, 10598,	23557, 23579, 23606	8641, 8654, 8656,	
13245, 19435,	\ifbool .... 16196, 16205	8664, 9335, 9779,	
19479, 19557,	\ifcase 1408, 1435, 1439,	9794, 9838, 9841,	
19571, 20175,	1443, 1447, 1473,	9870, 9878, 9879,	
20219, 20297,	3734, 3740, 3746,	9885, 9908, 9915,	
20311, 20948,	3752, 3758, 3764,	9921, 9937, 9943,	
20992, 21070,	3776, 3782, 3788,	10012, 10028,	
21084, 23480, 24339	3795, 3809, 3816,	10041, 10044,	
\if@vihproof 17211, 17217	3826, 9416, 14686,	10046, 10293,	
\ifadl@inactive ... 1373	16079, 21886,	10314, 10334,	
\ifadl@usingarypkg 1376	22267, 23144,	10343, 10370,	
\ifAM@output ..... 17772	23214, 23324,	10374, 10391,	
\ifAM@survey ..... 17750	23332, 23556,	10400, 10422,	
\IfArgIsEmpty .....	23605, 24007, 24008	10426, 11343,	
. 19320, 20059, 20832	\ifcat 3675, 3960, 5810, 5811	11348, 11355,	
\ifartopt ..... 16882	\ifconvertcolorsU .	11360, 11367,	
\ifbeamer@centered 2121	..... 23542,	11372, 12568,	
\ifbeamer@colbox@ignorebg	23558, 23585, 23607	12572, 12576,	
..... 1858, 1861	\ifcoddpage ..... 6826	12630, 12634,	
\ifbeamer@colbox@rounded	\ifcsname .....	12638, 13076,	
..... 1894	4924, 4930, 5281,	13078, 13221,	
\ifbeamer@compress 2416	5673, 5687, 5701,	13753, 13758,	
\ifbeamer@dogeometry	5711, 5733, 6253,	13765, 13770,	
..... 1932	6268, 6482, 6490,	13777, 13782,	
\ifbeamer@onlytextwidth	17590, 17600,	13824, 13832,	
..... 2103	17614, 23099,	13848, 13849,	



13879,	13887,	2409, 4332, 7287,	\ifLtoRhboxconstruct
13900,	13915,	7331, 7375, 7618,	..... 4898
13948,	13949,	7624, 9449, 9451,	\ifLtoRtable ..... 4886
14231,	14238,	9458, 9464, 9483,	\ifmaskcolors . 23546,
14277,	14284,	21848, 23529,	23557, 23589, 23606
14329,	14419,	23531, 23568,	\ifmmode .....
14557,	14573,	23572, 23625,	3933, 9443, 9448,
15504,	15518,	23903, 23904,	13191, 13201,
15524,	15658,	23947, 24177, 24221	14211, 14213,
16067,	16114,	\ifhv@fbox ... 14488,	14216, 14217,
16117,	16852,	14494, 14501,	14218, 14224,
16895,	16902,	14507, 14513,	14226, 14243,
16906,	16908,	14519, 14528,	14246, 14253,
16947,	17008,	14532, 14537,	14262, 14268,
17016,	17018,	14541, 14545,	14272, 14275,
17108,	17116,	14549, 14563,	14289, 14314,
17118,	17193,	14579, 14590,	14321, 15065,
17204,	17288,	14594, 14599,	15077, 15080,
17296,	17302,	14603, 14607,	15116, 15148,
17316,	17324,	14611, 14618,	15177, 15203,
17800,	17853,	14624, 14631,	17783, 17841,
17878,	17936,	14637, 14643, 14649	18079, 18115,
17947,	17954,	\ifhv@nonfloat 14431,	19245, 19247,
17959,	17974,	14438, 14456,	19251, 19255,
18087,	18112,	14477, 14669, 14671	19257, 19262,
19748,	19831,	\ifhv@onlytext ....	19266, 19269,
20509,	20592,	..... 14439, 14457	19273, 19275,
21274,	21357,	\ifhv@useobox 14402, 14406	19279, 23524,
21674,	22607,	\ifhy@href@ismap . 15168	23528, 23839, 23914
22652,	22667,	\ifhy@hyperfootnotes	\ifnat@openbib ... 17569
22672,	23110,	. 11173, 11187, 14705	\ifnonlatin ..... 4910
23135,	23201,	\ifhy@nesting .....	\ifnum ..... 3,
23457,	23459,	.. 14754, 14765,	137, 143, 198, 304,
23461,	23463,	14776, 14787,	353, 354, 355, 356,
23464,	23465,	14802, 14817,	358, 459, 508, 525,
23467,	23507,	14877, 14915,	551, 560, 644, 660,
23514, 24278, 24410		14948, 14979, 15010	678, 810, 871, 904,
\ifdofullc@p .....		\ifhy@pdfa ... 15094,	922, 1062, 1127,
. 19818, 20579, 21344		15128, 15159, 15188	1143, 1161, 1312,
\iffalse .....		\ifin@ ..... 6498	1378, 1379, 1380,
4813, 4814, 4816,		\ifin@label ..... 5932	1381, 1383, 1422,
13939, 13940,		\ifinner .. 4338, 7293,	1423, 2192, 2208,
15709, 16182,		7337, 7381, 13827,	2224, 2348, 2415,
16183, 18188, 18189		23449, 24183, 24227	2419, 2440, 2441,
\iffileexists .. 6208,		\ifl@grid ..... 15519	2443, 2925, 2939,
6806, 8278, 8343		\ifl@realh ..... 15455	2940, 3854, 3855,
\iffootdir@debug ..		\iflatin ..... 4904	3856, 4364, 4700,
..... 13393, 13397		\iflettrineimage . 15449	5205, 5784, 5812,
\iffootnotebackref@number		\iflettrineongrid 15450	5814, 5822, 5824,
..... 13751		\iflettrineonheight	6025, 6035, 6133,
\ifgin@grid . 17681, 17694		..... 15451	6139, 6164, 6179,
\ifgin@iso ..... 14328		\iflettrineSelfRef 15452	6185, 8518, 8722,
\ifhbox 12510, 12519, 12523		\ifltoR ..... 4874	8738, 8754, 8818,
\ifhmode .....			8820, 8822, 8899,



8915, 8931, 8995,	18368,	18446,	..... 17796
8997, 8999, 9059,	18587,	18646,	\ifpoem@started 8492,
9153, 9202, 9217,	18662,	18678,	8498, 8638, 8645, 8659
9240, 9242, 9244,	18729,	18731,	\ifprimitive .. 4976, 4983
9254, 9336, 9603,	18733,	18831,	\ifPst@shift@star 18103
9611, 9616, 9623,	18878,	18892,	\ifr@ggedbottom .. 18053
9833, 9834, 9847,	18918,	18920,	\ifrot@messages ...
9858, 9994, 10006,	18922,	19013,	..... 19215, 19227
10019, 10234,	19062,	19077,	\ifRtoL ..... 4868
10789, 10803,	19100,	19102,	\ifRtoLhboxconstruct
10816, 10825,	19104,	19114,	..... 4892
10912, 11009,	19300,	19311,	\ifRtoLtable ..... 4880
11058, 11072,	19380,	19481,	\ifshowgrid ..... 18081
11074, 11076,	19528,	19555,	\ifsomething ..... 6063
11086, 11504,	19604,	20039,	\Ifstr .. 22310, 22311,
12893, 12908,	20050,	20120,	22312, 22313,
12925, 13012,	20221,	20268,	22314, 22315,
13062, 13064,	20295,	20344,	22316, 22317,
13066, 13354,	20379,	20394,	22318, 22333,
13356, 13358,	20397,	20401,	22334, 22335,
13367, 13369,	20812,	20823,	22336, 22338,
13371, 13517,	20893,	20994,	22339, 22340,
13620, 13634,	21041,	21068,	22343, 22346,
13648, 13948,	21117,	21163,	22355, 22356,
13950, 14138,	21166,	21719,	22357, 22360,
15067, 15072,	21767,	21768,	22363, 22382,
15369, 15511,	21769,	21770,	22383, 22384,
15571, 15629,	21772,	21877,	22386, 22387,
15632, 15640,	21879,	21998,	22388, 22391,
15643, 15712,	22002,	22044,	22394, 22403,
16028, 16029,	22063,	22085,	22404, 22405,
16109, 16110,	22102,	22119,	22408, 22411,
16846, 16879,	22136,	22153,	22469, 22470,
17005, 17035,	22171,	22190,	22471, 22472,
17105, 17135,	22210,	22245,	22473, 22474,
17224, 17236,	22428,	22429,	22475, 22476,
17248, 17348,	22540,	22541,	22477, 22492,
17354, 17432,	22568,	22578,	22493, 22494,
17450, 17609,	22592,	23074,	22495, 22497,
17619, 17866,	23079,	23097,	22498, 22499,
17872, 17884,	23270,	23488,	22502, 22505,
17887, 17888,	23770,	23953,	22514, 22515,
17889, 17891,	23954,	23968,	22516, 22519,
17892, 17893,	24023,	24274,	22522, 22776,
17894, 17903,	24296, 24419, 24420		22777, 22778,
17925, 17930,	\ifodd .... 4349, 8249,		22779, 22780,
17941, 17952,	10571, 10599,		22781, 22782,
17953, 17959,	10670, 13246,		22783, 22784,
17963, 17966,	14359, 14365,		22853, 22854,
17967, 18073,	23480, 24270, 24340		22855, 22856,
18074, 18081,	\ifoddpage ..... 6820		22858, 22859,
18126, 18274,	\ifonelinecaptions		22860, 22863,
18290, 18306,	. 19721, 20482, 21247		22866, 22875,
18364, 18366,	\ifpgfrememberpicturepositiononpage		22877,



22880,	22883,	..... 23119	4215, 4221, 4227,
22913,	22914,	\iftocstyle@indentnotnumbered	4242, 4273, 4325,
22915,	22917,	..... 23164, 23211	4328, 4589, 4590,
22918,	22919,	\iftrue ..... 4815,	4591, 4593, 4693,
22922,	22925,	7234, 7247, 7260	4722, 4725, 4745,
22934,	22935,	\ifttl@label ..... 21853	4749, 4769, 4773,
22936,	22939,	\ifTX@ ..... 21709	4788, 4792, 4862,
22942,	22962,	\ifvbox ..... 12821,	4931, 4949, 5244,
22965,	22968,	14185, 17475, 17490	5432, 5448, 5790,
22988,	22992,	\ifvmode .. 5029, 5083,	5796, 5797, 5834,
22997,	23009,	5140, 6637, 7023,	5835, 5836, 5837,
23012,	23016,	7026, 7029, 7032,	5847, 5853, 5878,
23026, 23030, 23035		16211, 17278,	5883, 5888, 5893,
\Ifstrstart ... 22767,		17639, 17659, 21661	5899, 5904, 6092,
22799,	22827,	\ifvoid 9671, 9687, 9730,	6198, 6222, 6237,
22840, 22899, 23051		9746, 9801, 9988,	6302, 6314, 6346,
\iftagsleft@ .. 328, 10628		10297, 10318,	6357, 6392, 6398,
\iftest ..... 5867		10329, 10354,	6409, 6410, 6421,
\ifthenelse 4583, 4600,		10386, 10408,	6451, 6460, 6461,
4604, 4608, 4616,		11393, 11394,	6481, 6496, 6506,
6719, 6779, 6781,		11402, 11408,	6520, 6527, 6539,
6784, 6788, 6791,		11432, 11433,	6555, 6610, 6621,
6794, 6819, 6876,		11449, 11461,	7563, 8387, 8408,
6895, 6910, 6915,		12861, 12876,	8561, 8613, 8618,
6921, 6930, 6941,		13683, 13908,	8620, 9647, 9710,
6947, 6953, 6954,		13929, 14084,	10366, 10418,
6961, 6968, 6970,		14089, 14107,	11135, 11151,
6976, 6993, 7011,		14109, 14118,	11155, 13124,
7013, 7017, 7035,		14128, 14148,	13160, 13514,
7036, 7039, 7040,		14149, 14153,	13792, 13993,
7075, 7084, 7095,		14164, 14171,	14042, 14080,
7105, 7154, 7269,		15244, 15248,	14257, 14299,
7493, 7511, 7512,		16127, 16227,	14300, 14306,
7530, 7531, 7549,		17263, 17418,	14393, 14395,
7550, 7581, 7582,		17420, 17434,	14401, 14412,
7700, 7705, 7729,		17435, 17479,	14414, 14417,
7734, 7758, 7763,		17483, 17487,	14418, 14435,
7840, 7844, 7892,		17981, 18047,	14441, 14442,
8105, 8151, 8160,		18049, 18054,	14444, 14447,
8168, 8195, 8242,		23630, 23683,	14459, 14460,
8311, 8322, 10138,		23693, 24125,	14462, 14465,
10144, 10161,		24140, 24141, 24164	14474, 14476,
10164, 10165,		\ifWF@float . 23462, 23476	14485, 14487,
10166, 10167,		\ifx ..... 115,	14500, 14527,
10168, 10254,		134, 136, 151, 155,	14536, 14556,
10259, 10262,		159, 166, 794, 798,	14572, 14589,
10263, 10264,		1046, 1050, 1296,	14598, 14617,
10265, 10266,		1300, 1892, 1893,	14630, 14664,
10269, 10273,		2259, 2285, 2311,	14670, 14683,
13327, 13342,		2711, 2717, 2723,	14714, 14725,
17740, 19169, 19214		2801, 2930, 2955,	14736, 15043,
\Iftocfeature . 22448,		2975, 3125, 3141,	15046, 15049,
22560, 22618, 22628		3208, 3272, 3368,	15052, 15096,
\iftocstyle@autolength		3463, 3864, 3865,	15104, 15130,



15138,	15161,	21054,	21069,	18269,	18710,
15190,	15394,	21070,	21074,	18719,	19245,
15415,	15457,	21075,	21083,	19255,	19273,
15477,	15669,	21084,	21088,	19791,	19793,
15670,	15674,	21089,	21098,	20552,	20554,
15676,	16033,	21099,	21103,	21317,	21319,
16956,	16997,	21104,	21112,	23568,	23572,
17097,	17362,	21177,	21669,	23815,	23854,
17367,	17372,	21888,	22230,	23863,	23872, 23881
17595,	17599,	22583,	22589,	\iii . . . . .	6171
17606,	17612,	22635,	22639,	\ilg . . . . .	17875, 17898
17756,	17768,	22643,	22750,	\immediate . . .	6634, 8625
18044,	18096,	23086,	23157,	\in@ . . . . .	6497
18137,	18150,	23169,	23177,	\includegraphics . .	
18163,	18430,	23194,	23219,	. . .	4624, 10140,
18434,	18571,	23286,	23291,		10271, 17669, 17742
18575,	19333,	23293,	23537,	\incluclmedia . . . . .	
19368,	19375,	23580,	23713,	. . .	16431, 16761, 16762
19432,	19433,	23823,	23826,	\includepdf . . . . .	17733
19440,	19448,	23833,	23994,	\indentedwidth . . .	11153
19455,	19461,	24002,	24041,	\index . . . . .	6049,
19483,	19499,	24088,	24353,		6050, 13299, 24364
19506,	19514,	24354,	24356, 24357	\indexname . . . . .	598,
19522,	19534,	\ifXC@tst . . .	23560, 23609		599, 600, 614,
19541,	19556,	\ignorespaces . . .	46,		615, 863, 864,
19557,	19561,		60, 76, 122, 249,		1115, 1116, 8065,
19562,	19570,		263, 278, 336,		8066, 8710, 8711,
19571,	19575,		630, 639, 937,		8887, 8888, 9097,
19576,	19585,		1189, 1198, 1884,		9098, 9099, 18244,
19586,	19590,		2095, 2099, 2104,		18245, 18499,
19591,	19599,		2116, 2126, 2154,		18500, 18958,
19652,	20072,		2171, 2188, 2204,		18959, 18960,
20108,	20115,		2220, 2236, 2462,		21955, 21956,
20172,	20173,		5621, 6111, 6127,		21957, 21961,
20180,	20188,		6129, 6135, 6138,		21962, 21963,
20195,	20201,		6141, 6145, 6150,		21966, 21967,
20223,	20239,		7046, 7053, 7054,		21973, 21974,
20246,	20254,		7063, 7650, 7668,		21978, 21979,
20262,	20274,		7686, 7722, 7751,		21980, 21983, 21984
20281,	20296,		7780, 8045, 8469,	\indexspace . . . . .	8081
20297,	20301,		8480, 8633, 8634,	\input . . . . .	3731, 3732,
20302,	20310,		8781, 8969, 9339,		3846, 3939, 4015,
20311,	20315,		9345, 9458, 9464,		4436, 8279, 8344,
20316,	20325,		9472, 9479, 11140,		24424, 24434,
20326,	20330,		11154, 11218,		24435, 24436,
20331,	20339,		11224, 11230,		24437, 24438,
20412,	20845,		13571, 13588,		24439, 24440,
20881,	20888,		13604, 13631,		24441, 24442,
20945,	20946,		13645, 13659,		24443, 24444,
20953,	20961,		14341, 14345,		24445, 24446,
20968,	20974,		14350, 14355,		24447, 24448,
20996,	21012,		15401, 15420,		24449, 24450,
21019,	21027,		16166, 16969,		24451, 24452,
21035,	21047,		16976, 18260,		24453, 24454,



24455,	24456,	24601,	24602,	\insertfootnotemark	
24457,	24458,	24603,	24604, 24605	..... 2132,	
24459,	24460,	\input@path .....	16452	2137, 2521, 2528,	
24462,	24463,	\InputIfFileExists		2535, 2879, 2885, 2891	
24467,	24473,	..	6196, 6205, 15468	\insertfootnotetext	
24480,	24481,	\insert .....	35, 49,	..... 2131,	
24482,	24483,		65, 238, 252, 267,	2136, 2521, 2528,	
24484,	24485,		3681, 3966, 10288,	2535, 2879, 2885, 2891	
24486,	24487,		10304, 10309,	\insertframenumber	
24488,	24489,		10325, 10372,	2813, 2943, 2949,	
24490,	24491,		10378, 10424,	2953, 2971, 2973, 3050	
24492,	24493,		10430, 11234,	\insertframesubtitle	
24494,	24495,		11248, 11262,	..... 3125,	
24496,	24497,		11528, 11538,	3126, 3272, 3273,	
24498,	24499,		11548, 11637,	3368, 3371, 3463, 3466	
24500,	24501,		11646, 11655,	\insertframetitle .	
24502,	24503,		11740, 11750,	..... 3124,	
24504,	24505,		11760, 11849,	3271, 3367, 3462	
24506,	24507,		11859, 11869,	\insertinstitute ..	
24508,	24509,		11958, 11968,	... 2662, 2717, 2720	
24510,	24511,		11978, 12067,	\insertinstituteindicator	
24512,	24513,		12077, 12087,	..... 2719	
24514,	24515,		12176, 12186,	\insertlogo .....	3154
24516,	24517,		12196, 12285,	\insertnavigation .	
24518,	24519,		12295, 12305,	..... 3077, 3336	
24520,	24521,		12394, 12404,	\insertpenalties ..	
24522,	24523,		12414, 12653,	..... 13522, 14138	
24524,	24525,		12671, 12683,	\insertsectionhead	
24527,	24528,		13558, 13575,	..... 2798,	
24529,	24530,		13591, 14108,	3030, 3432, 3515, 3523	
24531,	24532,		14110, 17419, 17421	\insertshortauthor	
24555,	24556,	\insert@column ....		... 3000, 3203, 3227	
24557,	24558,	....	1410, 1411,	\insertshortdate ..	3008
24559,	24560,		1412, 1413, 1415,	\insertshortinstitute	
24561,	24562,		1416, 1476, 1478,	..... 3000	
24563,	24564,		1479, 1481, 1482,	\insertshorttitle .	
24565,	24566,		1483, 9419, 9421,	..... 3003,	
24567,	24568,		9422, 9424, 9425, 9426	3195, 3234, 3422, 3504	
24569,	24570,	\insertauthor .....		\insertsubenumlabel 1627	
24571,	24572,	...	2656, 2711, 2714	\insertsubsectionhead	
24573,	24574,	\insertauthorindicator		..... 2801,	
24575,	24576,	.....	2713	2804, 3037, 3089,	
24577,	24578,	\insertblocktitle .		3346, 3442, 3534, 3542	
24579,	24580,		1725, 1734, 1743,	\insertsubsubenumlabel	
24581,	24582,		2563, 2578, 2593,	..... 1648	
24583,	24584,		2735, 2747, 2759, 2859	\insertsubtitle ...	
24585,	24586,	\insertcaption ....	2550	... 2640, 2708, 2785	
24587,	24588,	\insertcaptionname	2547	\inserttitle .....	
24589,	24590,	\insertdate .....		... 2634, 2707, 2778	
24591,	24592,	...	2668, 2723, 2726	\insertttitlegraphic 2651	
24593,	24594,	\insertdateindicator		\insertttitleindicator	
24595,	24596,	.....	2725	..... 2706	
24597,	24598,	\insertenumlabel ..		\inserttocsection .	
24599,	24600,	.....	1604, 1669	..... 1538,	



1578, 1697, 2702	\intertextsep . 23515, 23517	\jue@ht . . . . . 17024,
\inserttocsectionnumber	\InTheoType . . . . .	17031, 17124,
... 1535, 1572, 1694	.. 10644, 17629,	17131, 17200, 17207
\inserttocsubsection	17631, 17650, 17652	\jue@pr . . . . . 17007,
..... 1541,	\ior .. 16535, 16536, 16540	17037, 17107, 17137
1583, 1705, 2491	\isempty .. 6895, 7493,	\jue@sar . . . . . 17006,
\inserttocsubsubsection	7700, 7705, 7729,	17036, 17078,
..... 1546,	7734, 7758, 7763,	17106, 17136, 17175
1590, 1712, 2495	8151, 8160, 8168, 8195	\jue@sk . 17005, 17035,
\inserttotalframenumber	\isodd . . . . . 19169, 19214	17078, 17105,
.... 2813, 2934,	\isSC@ODD . . . . 21560,	17135, 17175, 17208
2940, 2943, 2959,	21561, 21563,	\justifying . . . . 6802,
2962, 2979, 2982, 3050	21564, 24535,	6872, 7442, 18175
\insertverticalnavigation	24537, 24539, 24541	\JustifyingParfillskip
..... 3206	\isundefined ... 7105,	..... 18181
\int . . . . 16485, 16532,	7154, 10138,	\JustifyingParindent
16533, 16537,	10144, 10161,	..... 6774,
16615, 16703,	10164, 10165,	7445, 8004, 18182
16706, 16707,	10166, 10167,	
16718, 16756,	10168, 10259,	
16794, 16819, 17705	10262, 10263,	
\interfootnotelinepenalty	10264, 10265,	
.. 39, 53, 69, 242,	10266, 10269, 10273	
256, 271, 11424,	\item . . . . . 102,	
13562, 13579, 13595	222, 603, 618, 867,	
\interlinepenalty 39,	950, 1119, 8037,	
53, 69, 242, 256,	8045, 8050, 8071,	
271, 558, 622,	8714, 8891, 9102,	
647, 874, 929,	13196, 13211,	
1123, 1130, 7957,	15345, 18248,	
8718, 8725, 8895,	18503, 18963, 21990	
8902, 9066, 9261,	\itemindent . . . . 8032,	
9269, 9991, 10003,	8033, 8041, 23777	
10016, 10823,	\itemize . . . . . 2346	
10836, 11093,	\itemsep . . . . . 2395,	
11102, 11424,	6768, 7978, 8017, 8031	
12930, 12938,	\itemx . . . . . 17494	
13562, 13579,	\itemxox . . . . . 17529	
13595, 17228,	\itemxoxx . . . . . 17539	
17240, 17252,	\itemxxx . . . . . 17497	
18130, 18252,	\itemxxo . . . . . 17534	
18277, 18649,	\itemxxox . . . . . 17546	
18702, 18764,	\itemxxx . . . . . 17502	
19119, 19127,	\itemxxxo . . . . . 17553	
21845, 21886,	\itemxxxx . . . . . 17509	
22020, 22051,	\itemxxxxx . . . . . 17518	
22074, 22091,	\itshape .. 4123, 4596,	
22108, 22125,	7841, 7843, 7847,	
22142, 22159,	7854, 7861, 7896,	
22177, 22196,	7903, 7910, 7917,	
22216, 22251,	7924, 8228, 8229, 8230	
22634, 23160,		
23274, 23455, 23972	J	
\intermath@penalty 9338	\j . . . . . 6185, 6186, 6190	



11160,	11162,	23727, 23729, 24293	16324,	16325,
11164,	11166,	\keys . . . 16248, 16444,	16326,	16327,
11209,	11210,	16538, 16777, 16778	16328,	16329,
11336,	11337,	\keywords . . . . . 324	16330,	16331,
12943,	12945,	\kill . . . . . 16030	16332,	16333,
12947,	12949,	\KOMAClassName 19327,	16334,	16335,
13087,	13088,	19500, 19507,	16336,	16337,
13089,	13331,	19529, 19535,	16341,	16342,
13474,	13476,	19542, 19730,	16343,	16345,
13477,	13478,	19739, 19803,	16347,	16350,
13479,	13480,	19913, 20066,	16351,	16353,
13512,	13797,	20240, 20247,	16354,	16355,
13861,	14239,	20269, 20275,	16364,	16374,
14285,	15355,	20282, 20491,	16375,	16376,
15357,	15358,	20500, 20564,	16377,	16378,
15359,	15429,	20675, 20839,	16379,	16380,
15431,	15433,	21013, 21020,	16381,	16382,
15435,	16166,	21042, 21048,	16388,	16390,
17287,	17343,	21055, 21256,	16391,	16392,
17344,	17391,	21265, 21329, 21440	16395,	16397,
17393,	17394,	\KV@do . . . . . 15485, 15490	16399,	16404,
17395,	18053,	\KV@errx . . 2251, 2254,	16405,	16406,
18064,	18067,	2257, 2277, 2280,	16408,	16410,
18094,	18110,	2283, 2303, 2306, 2309	16415,	16417,
18330,	18331,	\KV@prefix . 15483, 15488	16419,	16427,
18333,	18336,		16438,	16439,
18337,	18339,		16454,	16455,
18380,	18519,	L	16456,	16457,
18753,	18754,	\l . . . . . 10670, 10686,	16475,	16495,
18756,	18759,	10689, 10695,	16503,	16508,
18760,	18762,	10698, 10700,	16522,	16527,
18910,	18912,	10701, 10704,	16531,	16532,
18914,	18916,	10705, 10708,	16533,	16535,
19092,	19094,	10711, 10712,	16536,	16537,
19096,	19098,	10713, 10718,	16540,	16544,
19367,	19371,	10719, 10720,	16546,	16547,
19374,	19377,	10726, 10727,	16548,	16549,
19378,	19772,	10728, 10733,	16550,	16551,
19774,	19868,	10734, 10735,	16552,	16554,
19870,	20107,	10744, 10747,	16555,	16556,
20111,	20114,	10755, 16256,	16557,	16559,
20117,	20118,	16258, 16264,	16560,	16561,
20533,	20535,	16266, 16272,	16563,	16564,
20629,	20631,	16273, 16274,	16565,	16568,
20880,	20884,	16275, 16276,	16569,	16570,
20887,	20890,	16277, 16278,	16573,	16606,
20891,	21298,	16279, 16280,	16608,	16611,
21300,	21394,	16281, 16282,	16636,	16638,
21396,	21596,	16284, 16285,	16670,	16674,
21602,	21859,	16287, 16288,	16686,	16687,
23490,	23494,	16289, 16296,	16733,	16743,
23500,	23503,	16297, 16298,	16749,	16761,
23525,	23684,	16300, 16302,	16762,	16781,
23694,	23724,	16305, 16306,	16782,	16783,
		16313, 16323,		



16784, 16785,	15554, 15556,	17503, 17505,
16786, 16787,	15562, 15564, 15567	17507, 17510,
16788, 16789,	\l@part ..... 507,	17512, 17514,
16824, 16825,	659, 677, 903,	17516, 17519,
17707, 17709, 17718	921, 1142, 1160,	17521, 17523,
\l@ ..... 22261	8737, 8753, 8914,	17525, 17527,
\l@addto@macro ....	8930, 9201, 10802,	17530, 17532,
. 19310, 20049, 20822	11057, 12892,	17535, 17537,
\L@ante 15444, 15534, 15568	18289, 18305,	17540, 17542,
\l@chapter 8761, 8775,	18661, 18677,	17544, 17547,
8938, 8952, 9216,	18877, 19061,	17549, 17551,
12907, 18313,	21907, 21908,	17554, 17556, 17558
18327, 18685,	21996, 23231, 23234	\labelsep .... 85, 90,
18699, 18891,	\L@Pindent ... 15532,	288, 293, 577, 712,
19076, 21910,	15533, 15535,	975, 1225, 2373,
21911, 22043, 23239	15536, 15538,	2394, 4635, 4637,
\l@color ... 15473, 15474	15539, 15542, 15549	7994, 7996, 8053,
\l@figure ..... 7965,	\L@raise ... 15443, 15509	8791, 8979, 9288,
7966, 22152, 23267	\L@realhfalse .... 15451	10850, 11121,
\L@Findent .....	\L@realhtrue .... 15451	12958, 15327,
. 15445, 15536, 15569	\l@refstring ..... 15438	15332, 17495,
\L@first 15508, 15510,	\l@section .....	17498, 17500,
15512, 15514,	524, 685, 698, 887,	17503, 17505,
15518, 15524,	900, 1169, 1182,	17507, 17510,
15526, 15528,	10788, 22062, 23243	17512, 17514,
15530, 15534,	\L@selfreffalse .. 15452	17516, 17519,
15535, 15537,	\L@selfreftrue ... 15452	17521, 17523,
15538, 15547, 15549	\L@slope .....	17525, 17527,
\L@gridfalse ..... 15450	. 15447, 15558, 15559	17530, 17532,
\L@gridtrue ..... 15450	\l@subfigure ..... 22189	17535, 17537,
\L@hang .... 15441, 15533	\l@subparagraph ...	17540, 17542,
\L@imagefalse .... 15449	..... 22135, 23259	17544, 17547,
\L@imagertrue ..... 15449	\l@subsection 22084, 23247	17549, 17551,
\l@initial ..... 15438	\l@subsubsection ..	17554, 17556,
\L@lbox . 15487, 15494,	..... 22101, 23251	17558, 18348,
15495, 15496,	\l@subtable ..... 22209	18742, 18936,
15532, 15533, 15568	\l@table 7966, 22170, 23263	19139, 19671,
\l@L@Keys .... 15478,	\L@target@dp ..... 15515	20432, 21197, 21925
15480, 15485, 15490	\L@target@tht .....	\labelwidth ... 89, 90,
\L@lraise .... 15509,	. 15501, 15509, 15514	292, 293, 575, 576,
15510, 15515, 15568	\L@tbox . 15454, 15462,	710, 711, 973, 974,
\L@next . 15540, 15541,	15507, 15512, 15570	1223, 1224, 2381,
15554, 15556, 15559	\l@textcolor 15475, 15476	2392, 2393, 4634,
\l@ngrel@x 5244, 5245, 5247	\label 4620, 6924, 6926,	4636, 7995, 7996,
\L@Nindent ... 15446,	6928, 6932, 6984,	8789, 8790, 8977,
15539, 15541,	13298, 13730,	8978, 9286, 9287,
15543, 15556, 15558	13736, 14449,	10848, 10849,
\L@novskip .....	14467, 19724,	11119, 11120,
. 15448, 15518, 15522	20485, 21250, 24363	12956, 12957,
\L@oversize .....	\labelitemi . 743, 995,	13953, 15331,
. 15442, 15499, 15504	1058, 1245, 8831,	15332, 17495,
\l@paragraph 22118, 23255	9008, 18379, 18518	17498, 17500,
\L@parshape .....	\labelname ... 17495,	17503, 17505,
.. 15547, 15549,	17498, 17500,	17507, 17510,



17512,	17514,	10228,	10811,	653, 667, 692, 744,
17516,	17519,	10880,	10886,	881, 894, 911, 996,
17521,	17523,	10945,	10951,	1059, 1136, 1150,
17525,	17527,	10975,	10981,	1176, 1246, 1527,
17530,	17532,	11046,	11052,	1541, 1544, 1563,
17535,	17537,	11065,	12901,	1581, 1586, 1685,
17540,	17542,	12980,	12986,	1703, 1709, 1846,
17544,	17547,	13045,	13051,	2099, 2109, 2124,
17549,	17551,	18298,	18394,	2388, 2491, 2494,
17554,	17556,	18404,	18479,	2544, 2571, 2586,
17558,	18346,	18485,	18533,	2601, 2701, 2734,
18347,	18740,	18543,	18625,	2746, 2758, 2997,
18741,	18934,	18631,	18635,	3023, 3222, 3260,
18935,	19137,	18640,	18670,	3270, 4257, 4565,
19138,	19669,	18792,	18798,	5030, 5084, 5141,
19670,	20430,	18885,	18979,	7617, 7958, 8426,
20431,	21195,	18985,	19050,	8502, 8731, 8745,
21196, 21923, 21924		19056,	19070,	8768, 8832, 8908,
\landscape . 16144, 17725		22558, 22990, 23028		8922, 8945, 9009,
\langle ..... 4124		\Largr ..... 4127		9209, 9224, 9304,
\Larg ..... 4123,		\Largs ..... 4126		9305, 9443, 9495,
4124, 4125, 4126, 4127		\lastbox ..... 9778,		10796, 10810,
\Larga ..... 4124		12487, 12509,		11064, 11562,
\Largb ..... 4125		12518, 12522,		11668, 11774,
\LARGE ..... 423, 494,		16208, 17981,		11883, 11992,
751, 841, 1003,		23630, 23682, 23692		12101, 12210,
1093, 1253, 1344,		\LastFrameCommand .		12319, 12428,
1355, 7896, 7903,		..... 13815, 13925		12900, 12915,
7985, 8228, 8839,		\lastkern ... 7629, 13900		13196, 13211,
9016, 9117, 9188,		\lastpenalty . 9336, 23079		13662, 14227,
10223, 10878,		\lastrule ..... 9383		14273, 14293,
10943, 10973,		\lastskip ..... 7062,		15083, 15120,
11044, 12978,		8664, 8665, 9335		15152, 15361,
13043, 18387,		\LastTOCLevelWasHigher		15380, 16203,
18477, 18526,		..... 22960		17229, 17241,
18623, 18634,		\LastTOCLevelWasLower		17253, 17980,
18790, 18977, 19048		..... 22956		18061, 18066,
\Large ..... 561,		\LastTOCLevelWasSame		18112, 18133,
7847, 7910, 7984,		..... 22958		18283, 18297,
8229, 8230, 10134,		\LaTeX ..... 15225,		18320, 18380,
10227, 10826, 18866		23716, 23717, 23729		18519, 18655,
\large ..... 425, 431,		\LaTeXe .... 23718, 23719		18669, 18692,
496, 502, 516, 668,		\LBEG ..... 4128		18884, 18899,
758, 768, 843, 849,		\lcb . 4125, 4128, 4129, 4132		19069, 19084,
912, 1010, 1020,		\lccode ..... 5812,		19377, 20117,
1095, 1101, 1151,		5814, 23481, 23482		20890, 21576,
1260, 1270, 1346,		\Lcs ..... 4139		21627, 21851,
1352, 1356, 1361,		\LcsStar ..... 4140		21874, 22021,
7854, 7917, 7983,		\leaders ..... 19377,		22052, 22075,
8746, 8846, 8856,		20117, 20890,		22092, 22109,
8923, 9023, 9033,		21609, 21901,		22126, 22143,
9119, 9125, 9190,		23170, 23279, 23977		22160, 22178,
9196, 9210, 10133,		\leavevmode .. 14, 209,		22197, 22217,
10135, 10226,		305, 378, 515, 532,		22252, 22445,



22557, 22648,	19139, 19315,	15378, 15379,
23161, 23275,	19670, 19671,	16190, 16862,
23524, 23721,	20054, 20431,	16863, 17226,
23726, 23728,	20432, 20827,	17230, 17231,
23736, 23743,	21196, 21197,	17238, 17243,
23817, 23923, 23973	21924, 21925,	17250, 17255,
\left . 23737, 23744, 23750	23787, 23790,	18141, 18143,
\left@footnoterule	23800, 23804,	18154, 18156,
... 30, 234, 415,	23812, 23849,	18167, 18169,
538, 722, 739, 958,	23851, 23852,	18178, 18180,
991, 1202, 1241,	23853, 23858,	18254, 18267,
2192, 2224, 8801,	23860, 23861,	18278, 18279,
8827, 8954, 9004,	23862, 23867,	18284, 18295,
9109, 9231, 10860,	23869, 23870,	18318, 18321,
10872, 10965,	23871, 23876,	18322, 18650,
11159, 12942,	23878, 23879, 23880	18651, 18656,
12972, 13477,	\leftmargini ... 6765,	18667, 18690,
13483, 13496,	7975, 7988, 7995	18693, 18694,
13498, 13634,	\leftmarginii ..... 7989	18704, 18717,
13648, 15358,	\leftmarginiii .... 7990	18766, 18882,
15428, 16145,	\leftmarginiv ..... 7991	18897, 18900,
16147, 18329,	\leftmarginv ..... 7992	18901, 18906,
18375, 18512,	\leftmarginvi ..... 7993	18907, 19067,
18752, 18772,	\leftmarginwidth . 18906	19082, 19085,
18909, 18969,	\leftmark ..... 8325	19086, 19307,
19091, 19365,	\leftskip ..... 12,	20046, 20819,
19424, 20105,	13, 207, 208, 305,	21843, 21855,
20164, 20878, 20937	309, 513, 530, 533,	21872, 21893,
\leftfootnoterule .	534, 624, 637, 648,	21895, 21900,
..... 3767,	649, 654, 665, 690,	21904, 21905,
10280, 11206,	693, 694, 875, 876,	22016, 22017,
13481, 13484,	882, 892, 895, 896,	22018, 22026,
13722, 14198, 24427	909, 931, 1125,	22047, 22048,
\leftline .... 18076,	1131, 1132, 1137,	22049, 22057,
23895, 23901, 23903	1148, 1174, 1177,	22070, 22071,
\leftlinenumbers ..	1178, 1196, 1872,	22072, 22080,
..... 15602, 15605	1873, 1877, 2474,	22087, 22088,
\leftmargin ..... 90,	2480, 2909, 2911,	22089, 22097,
293, 576, 577, 711,	7952, 7960, 7961,	22104, 22105,
712, 947, 974,	8532, 8720, 8726,	22106, 22114,
975, 1224, 1225,	8727, 8732, 8743,	22121, 22122,
2381, 2393, 2394,	8766, 8769, 8770,	22123, 22131,
4636, 4637, 6765,	8897, 8903, 8904,	22138, 22139,
7975, 8034, 8035,	8909, 8920, 8943,	22140, 22148,
8042, 8048, 8790,	8946, 8947, 9207,	22155, 22156,
8791, 8978, 8979,	9222, 9225, 9226,	22157, 22165,
9287, 9288, 10849,	9358, 9359, 9360,	22173, 22174,
10850, 11120,	9486, 9487, 9493,	22175, 22183,
11121, 12957,	10794, 10797,	22192, 22193,
12958, 15332,	10798, 10808,	22194, 22202,
18130, 18347,	11062, 11478,	22212, 22213,
18348, 18741,	12803, 12812,	22214, 22222,
18742, 18935,	12898, 12913,	22247, 22248,
18936, 19138,	12916, 12917,	22249, 22257,



22297,	22298,	1369, 1370, 1374,	6399, 6400, 6416,
22299,	23092,	1390, 1391, 1392,	6459, 6462, 6464,
23154,	23155,	1428, 1429, 1430,	6469, 6483, 6491,
23156,	23162,	1455, 1456, 1457,	6492, 6512, 6513,
23165,	23212,	1458, 1463, 1498,	6540, 6551, 6556,
23272,	23277,	1499, 1750, 2049,	6560, 6562, 6565,
23300,	23307,	2050, 2073, 2091,	6575, 6586, 6613,
23676,	23677,	2192, 2208, 2224,	6624, 6633, 6682,
23884,	23910,	2239, 2240, 2241,	6687, 6703, 6704,
23911, 23970, 23975		2248, 2249, 2250,	6705, 6706, 6708,
\LEND . . . . . 4129		2251, 2252, 2257,	6709, 6710, 6711,
\leqno . . . . 328, 18072,		2258, 2274, 2275,	6757, 6887, 6888,
18074, 24418, 24420		2276, 2277, 2278,	6925, 6926, 6932,
\let . . . . . 86, 102, 115,		2283, 2284, 2300,	6934, 6938, 6983,
152, 153, 156, 157,		2301, 2302, 2303,	6984, 7066, 7068,
160, 161, 164, 222,		2304, 2309, 2310,	7070, 7216, 7217,
289, 319, 327, 328,		2381, 2399, 2401,	7230, 7234, 7236,
347, 379, 380, 383,		3670, 3672, 3674,	7237, 7243, 7247,
400, 404, 408, 413,		3804, 3805, 3812,	7251, 7260, 7504,
414, 415, 416, 417,		3899, 3955, 3957,	7505, 7523, 7524,
418, 419, 437, 438,		3959, 3991, 4064,	7542, 7543, 7570,
439, 440, 441, 442,		4065, 4066, 4067,	7571, 7599, 7600,
443, 444, 445, 446,		4068, 4069, 4070,	7601, 7698, 7719,
447, 448, 472, 473,		4071, 4072, 4073,	7720, 7721, 7727,
474, 475, 476, 477,		4074, 4212, 4213,	7748, 7749, 7750,
478, 479, 480, 481,		4214, 4241, 4258,	7756, 7777, 7778,
482, 483, 484, 491,		4259, 4260, 4261,	7779, 7795, 7799,
492, 493, 580, 603,		4262, 4263, 4264,	7800, 7801, 7804,
618, 715, 737, 738,		4265, 4266, 4268,	7808, 7809, 7810,
739, 740, 741, 779,		4269, 4270, 4380,	7813, 7817, 7818,
780, 781, 782, 783,		4381, 4382, 4383,	7819, 7966, 8030,
784, 785, 786, 787,		4384, 4385, 4386,	8071, 8158, 8225,
788, 823, 824, 825,		4387, 4388, 4640,	8226, 8227, 8417,
826, 827, 828, 829,		4649, 4722, 4740,	8418, 8420, 8421,
830, 831, 832, 833,		4764, 4783, 4788,	8439, 8460, 8461,
840, 867, 978, 989,		4813, 4814, 4821,	8462, 8463, 8464,
990, 991, 992, 993,		4822, 4825, 4826,	8465, 8466, 8467,
1031, 1032, 1033,		4860, 4993, 4996,	8468, 8471, 8472,
1034, 1035, 1036,		5010, 5245, 5267,	8473, 8474, 8475,
1037, 1038, 1039,		5289, 5290, 5420,	8476, 8477, 8478,
1040, 1075, 1076,		5500, 5502, 5505,	8479, 8540, 8558,
1077, 1078, 1079,		5506, 5507, 5508,	8609, 8615, 8636,
1080, 1081, 1082,		5509, 5564, 5602,	8649, 8659, 8673,
1083, 1084, 1085,		5609, 5617, 5628,	8677, 8678, 8679,
1092, 1119, 1228,		5634, 5642, 5645,	8680, 8681, 8682,
1239, 1240, 1241,		5648, 5658, 5662,	8683, 8684, 8685,
1242, 1243, 1281,		5664, 5729, 5730,	8691, 8692, 8693,
1282, 1283, 1284,		5735, 5842, 5845,	8694, 8695, 8696,
1285, 1286, 1287,		5876, 5962, 5969,	8697, 8698, 8699,
1288, 1289, 1290,		5972, 5982, 5992,	8714, 8794, 8825,
1325, 1326, 1327,		6003, 6070, 6080,	8826, 8827, 8828,
1328, 1329, 1330,		6082, 6116, 6127,	8829, 8867, 8868,
1331, 1332, 1333,		6218, 6234, 6254,	8869, 8870, 8871,
1334, 1335, 1343,		6269, 6285, 6378,	8872, 8873, 8874,



8875, 8876, 8891,	10932,	10933,	11846,	11943,
8982, 9002, 9003,	10934,	10935,	11944,	11945,
9004, 9005, 9006,	10942,	10963,	11949,	11950,
9044, 9045, 9046,	10964,	10965,	11951,	11952,
9047, 9048, 9049,	10966,	10967,	11955,	12052,
9050, 9051, 9052,	10968,	10969,	12053,	12054,
9053, 9102, 9107,	10987,	10988,	12058,	12059,
9108, 9109, 9110,	10989,	10990,	12060,	12061,
9111, 9112, 9113,	10991,	10992,	12064,	12161,
9131, 9132, 9133,	10993,	10994,	12162,	12163,
9134, 9135, 9136,	10995,	10996,	12167,	12168,
9137, 9138, 9139,	10997,	10998,	12169,	12170,
9140, 9141, 9142,	11022,	11023,	12173,	12270,
9166, 9167, 9168,	11024,	11025,	12271,	12272,
9169, 9170, 9171,	11026,	11027,	12276,	12277,
9172, 9173, 9174,	11028,	11029,	12278,	12279,
9175, 9176, 9177,	11030,	11031,	12282,	12379,
9178, 9185, 9186,	11032,	11033,	12380,	12381,
9187, 9291, 9315,	11034,	11041,	12385,	12386,
9317, 9320, 9321,	11042,	11043,	12387,	12388,
9322, 9328, 9333,	11124,	11174,	12391,	12538,
9353, 9365, 9366,	11175,	11176,	12539,	12540,
9367, 9369, 9370,	11177,	11178,	12545,	12546,
9376, 9377, 9378,	11179,	11188,	12552,	12553,
9379, 9399, 9408,	11189,	11190,	12554,	12555,
9449, 9455, 9476,	11191,	11192,	12556,	12557,
9648, 9651, 9652,	11193,	11194,	12561,	12562,
9711, 9714, 9715,	11195,	11196,	12593,	12595,
10278, 10279,	11197,	11198,	12597,	12598,
10280, 10281,	11199,	11204,	12603,	12604,
10282, 10285,	11205,	11206,	12610,	12611,
10286, 10288,	11207,	11208,	12612,	12614,
10306, 10307,	11308,	11309,	12616,	12618,
10309, 10327,	11310,	11311,	12619,	12623,
10328, 10332,	11312,	11313,	12624,	12651,
10367, 10369,	11316,	11317,	12660,	12672,
10381, 10384,	11318,	11319,	12684,	12715,
10385, 10389,	11320,	11321,	12734,	12748,
10419, 10421,	11325,	11513,	12818,	12888,
10433, 10436,	11514,	11515,	12961,	12970,
10437, 10484,	11519,	11520,	12971,	12972,
10508, 10516,	11521,	11522,	12973,	12974,
10524, 10853,	11525,	11622,	12992,	12993,
10870, 10871,	11623,	11624,	12994,	12995,
10872, 10873,	11628,	11629,	12996,	12997,
10874, 10892,	11630,	11631,	12998,	12999,
10893, 10894,	11634,	11725,	13000,	13001,
10895, 10896,	11726,	11727,	13025,	13026,
10897, 10898,	11731,	11732,	13027,	13028,
10899, 10900,	11733,	11734,	13029,	13030,
10901, 10925,	11737,	11834,	13031,	13032,
10926, 10927,	11835,	11836,	13033,	13034,
10928, 10929,	11840,	11841,	13035,	13042,
10930, 10931,	11842,	11843,	13098,	13125,



13128,	13129,	15222,	15223,	18188,	18189,
13161,	13164,	15238,	15249,	18190,	18191,
13165,	13247,	15328,	15345,	18192,	18205,
13248,	13250,	15394,	15438,	18211,	18223,
13251,	13254,	15474,	15484,	18231,	18232,
13255,	13284,	15489,	15697,	18248,	18351,
13286,	13288,	15709,	16020,	18373,	18374,
13298,	13299,	16021,	16022,	18375,	18376,
13300,	13306,	16024,	16026,	18377,	18415,
13310,	13313,	16030,	16032,	18416,	18417,
13316,	13318,	16034,	16035,	18418,	18419,
13321,	13322,	16037,	16038,	18420,	18421,
13456,	13484,	16039,	16043,	18422,	18423,
13510,	13511,	16049,	16061,	18424,	18459,
13620,	13634,	16086,	16094,	18460,	18461,
13648,	13674,	16095,	16096,	18462,	18463,
13675,	13676,	16145,	16146,	18464,	18465,
13677,	13711,	16182,	16183,	18466,	18467,
13793,	13799,	16184,	16185,	18468,	18469,
13804,	13939,	16186,	16194,	18476,	18503,
13940,	13941,	16241,	16242,	18510,	18511,
13942,	13994,	16243,	16830,	18512,	18513,
13997,	13998,	16831,	16832,	18514,	18515,
14043,	14046,	16833,	16834,	18516,	18554,
14047,	14183,	16835,	16836,	18555,	18556,
14198,	14199,	16837,	16838,	18557,	18558,
14200,	14201,	16894,	16897,	18559,	18560,
14202,	14296,	16898,	16900,	18561,	18562,
14330,	14332,	16901,	16998,	18563,	18564,
14360,	14362,	17001,	17002,	18565,	18600,
14367,	14369,	17098,	17101,	18601,	18602,
14373,	14375,	17102,	17334,	18603,	18604,
14706,	14707,	17337,	17364,	18605,	18606,
14708,	14749,	17365,	17369,	18607,	18608,
14750,	14751,	17370,	17374,	18609,	18610,
14793,	14794,	17375,	17576,	18611,	18612,
14795,	14808,	17577,	17578,	18620,	18621,
14809,	14810,	17686,	17687,	18622,	18745,
14823,	14824,	17688,	17689,	18770,	18771,
14825,	14831,	17690,	17692,	18772,	18773,
14833,	14834,	17736,	17741,	18774,	18775,
14835,	14836,	17755,	17787,	18776,	18804,
14837,	14838,	17982,	17986,	18805,	18806,
14839,	14848,	18031,	18032,	18807,	18808,
14884,	14922,	18033,	18034,	18809,	18810,
14955,	14986,	18037,	18038,	18811,	18812,
15017,	15023,	18040,	18045,	18813,	18814,
15025,	15026,	18068,	18069,	18815,	18844,
15027,	15028,	18070,	18071,	18845,	18846,
15029,	15030,	18072,	18134,	18847,	18848,
15031,	15032,	18138,	18140,	18849,	18850,
15044,	15047,	18151,	18153,	18851,	18852,
15050,	15053,	18164,	18166,	18853,	18854,
15220,	15221,	18176,	18177,	18855,	18856,



18862,	18863,	20024,	20025,	21147,	21208,
18864,	18939,	20140,	20160,	21233,	21234,
18963,	18967,	20162,	20163,	21249,	21250,
18968,	18969,	20164,	20165,	21251,	21252,
18970,	18971,	20166,	20167,	21253,	21254,
18972,	18973,	20168,	20170,	21339,	21426,
18991,	18992,	20217,	20236,	21428,	21434,
18993,	18994,	20259,	20289,	21436,	21567,
18995,	18996,	20291,	20340,	21568,	21569,
18997,	18998,	20345,	20346,	21572,	21628,
18999,	19000,	20347,	20348,	21629,	21630,
19001,	19002,	20349,	20350,	21633,	21644,
19026,	19027,	20351,	20352,	21645,	21646,
19028,	19029,	20353,	20354,	21653,	21654,
19030,	19031,	20355,	20356,	21659,	21668,
19032,	19033,	20357,	20358,	21669,	21670,
19034,	19035,	20359,	20360,	21672,	21675,
19036,	19037,	20361,	20362,	21679,	21682,
19038,	19045,	20363,	20364,	21684,	21687,
19046,	19047,	20365,	20366,	21696,	21699,
19142,	19167,	20367,	20368,	21712,	21713,
19194,	19195,	20369,	20370,	21714,	21729,
19212,	19284,	20371,	20372,	21730,	21731,
19285,	19286,	20374,	20443,	21732,	21733,
19400,	19420,	20468,	20469,	21734,	21736,
19422,	19423,	20484,	20485,	21737,	21740,
19424,	19425,	20486,	20487,	21741,	21815,
19426,	19427,	20488,	20489,	21816,	21819,
19428,	19430,	20574,	20661,	21821,	21822,
19477,	19496,	20663,	20669,	21823,	21838,
19519,	19549,	20671,	20796,	21867,	21896,
19551,	19600,	20797,	20798,	21901,	21907,
19605,	19606,	20913,	20933,	21910,	21928,
19607,	19608,	20935,	20936,	21990,	21994,
19609,	19610,	20937,	20938,	22023,	22024,
19611,	19612,	20939,	20940,	22025,	22054,
19613,	19614,	20941,	20943,	22055,	22056,
19615,	19616,	20990,	21009,	22077,	22078,
19617,	19618,	21032,	21062,	22079,	22094,
19619,	19620,	21064,	21113,	22095,	22096,
19621,	19622,	21118,	21119,	22111,	22112,
19623,	19624,	21120,	21121,	22113,	22128,
19625,	19626,	21122,	21123,	22129,	22130,
19627,	19628,	21124,	21125,	22145,	22146,
19629,	19630,	21126,	21127,	22147,	22162,
19631,	19632,	21128,	21129,	22163,	22164,
19634,	19682,	21130,	21131,	22180,	22181,
19707,	19708,	21132,	21133,	22182,	22199,
19723,	19724,	21134,	21135,	22200,	22201,
19725,	19726,	21136,	21137,	22219,	22220,
19727,	19728,	21138,	21139,	22221,	22254,
19813,	19899,	21140,	21141,	22255,	22256,
19901,	19907,	21142,	21143,	22319,	22478,
19909,	20023,	21144,	21145,	22661,	22699,



22752,	22755,	\LettrineDepth ... 15496	19465,	20205,
22785,	22831,	\LettrineHeight ...	20978,	21648,
22844,	23056,	. 15495, 15503, 15508	21687,	23946, 24366
23073,	23289,	\LettrineSecondString	\lineskiplimit ....	
23297,	23302,	..... 15454	..... 13303, 24366	
23309,	23326,	\LettrineTextFont .	\linespacing .. 24, 15366	
23329,	23389,	. 15454, 15462, 15507	\linespread ... 2777, 5231	
23447,	23451,	\LettrineWidth ....	\linewidth .... 4593,	
23529,	23534,	..... 15487, 15494	6960,	13197,
23544,	23548,	\lftside ..... 17912,	13212,	13216,
23577,	23587,	17914, 17917,	13951,	13959,
23591,	23631,	17919, 17933, 17935	13960,	13962,
23635,	23700,	\Line ..... 10511,	13963,	14396,
23701,	23702,	10514, 10519,	15537,	15540,
23703,	23706,	10522, 10527,	15562,	15564,
23707,	23709,	10528, 10531,	16188,	16902,
23714,	23716,	10532, 10536,	16908,	17643,
23718,	23730,	10537, 10540,	17645,	17663,
23731,	23732,	10541, 10545,	17665,	17870,
23733,	23737,	10546, 10549,	17876,	17962,
23738,	23744,	10550, 10554,	17971,	17972,
23745,	23746,	10555, 10558, 10559	18025,	18027,
23758,	23780,	\line ..... 9505, 9506,	18195,	19418,
23842,	23883,	9508, 9509, 9515,	19734,	19743,
23886,	23887,	9516, 9518, 9519,	19801,	19884,
23901,	23902,	9528, 9529, 9531,	20158,	20495,
23920,	23924,	9532, 9538, 9539,	20504,	20562,
23925,	23926,	9541, 9542, 9551,	20646,	20931,
23929,	23941,	9552, 9554, 9555,	21260,	21269,
23942,	23943,	9561, 9562, 9564,	21327,	21411,
23944,	23950,	9565, 9574, 9575,	23678,	23688,
23951,	23952,	9577, 9578, 9584,	23786,	23787,
23990,	24042,	9585, 9587, 9588,	23814,	23849,
24045,	24046,	18075, 18076, 18077	23851,	23852,
24089,	24092,	\LineNumber ... 15580,	23853,	23858,
24093,	24323,	15582, 15584,	23860,	23861,
24325,	24328,	15589, 15592, 15594	23862,	23867,
24340,	24342,	\linenumberwidth ..	23869,	23870,
24344,	24346,	. 15582, 15589, 15594	23871,	23876,
24348,	24350,	\lineskip ..... 401,	23878,	23879,
24353,	24354,	426, 497, 759,	23880,	24312, 24315
24356,	24357,	844, 1011, 1096,	\link ..... 4599	
24363,	24364,	1261, 1347, 1356,	\list . 89, 292, 574, 709,	
24365,	24370,	4469, 8847, 9024,	945, 972, 1222,	
24382,	24385,	9120, 9191, 10881,	2335, 2356, 2379,	
24387,	24394,	10946, 10976,	2391, 8013, 8031,	
24398,	24400,	11047, 12981,	8040, 8048, 8788,	
24403,	24404,	13046, 13302,	8976, 9285, 10847,	
24417,	24418,	16062, 16191,	11118,	12955,
24426,	24427,	18202, 18395,	15331,	17568,
24428,	24607, 24609	18480, 18534,	18345,	18739,
\LetLtxMacro	13724, 13725	18626, 18635,	18933,	19136,
\Letter	..... 4485	18793, 18869,	19666,	20427,
\lettergroup	..... 8082	18980, 19051,	21192, 21922, 23769	



<code>\listdoubleitemmaincolumnwidth</code>	7355, 7391, 7395, 6173, 6179, 6182, 6184, 6188, 6189, 6194
.... 4539, 4552,	
4553, 4554, 4581, 4585	
<code>\listfigurename</code> 7935, 7936	<code>\lower</code> 1973, 1977, 2008, 2037, 2077, 2081, 3708, 3985, 18066, 18100, 18108, 23517, 23726, 23728
<code>\listitemmaincolumnwidth</code>	
..... 4538,	
4546, 4547, 4579	
<code>\listitemsymbol</code> ...	<code>\lowercase</code> .... 4828, 4836, 4844, 4852
4480, 4537, 4578,	
4580, 10089, 10187	<code>\lowertitleback</code> ... .. 19508, 19543, 19630, 20248, 20283, 20370, 21021, 21056, 21143
<code>\listitemsymbolwidth</code>	
..... 4536,	
4537, 4547, 4553	
<code>\listoffigures</code> .... 7933	<code>\LR</code> 15221, 18033, 18066, 23702, 23726, 23728
<code>\listoftables</code> ..... 7941	
<code>\listparindent</code> ....	<code>\lrb</code> ..... 4127, 4136
. 945, 8033, 8040,	
8041, 23776, 23785	<code>\LRE</code> ..... 3671, 3715, 3956, 3990, 15220, 18033, 18036, 23329, 23702, 23705
<code>\listtablename</code> 7943, 7944	<code>\Lreset@listparshape</code> ..... 15571
<code>\llap</code> . 1528, 1564, 1581,	
1588, 1686, 1704,	
1711, 2338, 2360,	
3211, 8020, 10643,	
11344, 11356,	
11368, 13104,	
13110, 13754,	
13766, 13778,	
14205, 14341,	
14343, 14345,	
14347, 14350,	
14352, 14355,	
14357, 15568,	
21594, 21856, 21874	<code>\LRfootnoterule</code> ... .. 10282, 11208, 13484
<code>\LoadClass</code> ... 8267, 8291	<code>\LS@rot</code> ..... 16137
<code>\long</code> .. 34, 48, 64, 237,	<code>\lsb</code> ..... 4126, 4134
251, 266, 455, 742,	<code>\lst@@caption</code> . 15670, 15676, 15683, 15688
807, 994, 1057,	<code>\lst@alloverstyle</code> . ..... 4115, 4121
1244, 1309, 4057,	<code>\lst@HRefStepCounter</code> ..... 15670, 15676
4275, 4278, 4281,	<code>\lst@ifnumberbychapter</code> ..... 15709, 15710
4286, 4289, 4292,	<code>\lst@Key</code> ... 15613, 15620
4758, 4759, 4768,	<code>\lst@MakeCaption</code> .. ..... 15668, 15681
4771, 4782, 4961,	<code>\lst@makecaption</code> .. ..... 15665, 15698
4965, 4998, 5000,	<code>\lst@maketitle</code> 15666, 15699, 15703, 15705
5002, 5004, 5247,	<code>\lst@title@dropdelim</code> ..... 15666
5251, 5361, 5380,	<code>\lstKV@SwitchCases</code> ..... 15614, 15621
5455, 5471, 5483,	<code>\lstset</code> ..... 4085
5492, 5527, 5555,	<code>\LT@ehl</code> .... 16022, 16024
5567, 5568, 5942,	<code>\LT@tabarray</code> 16021, 16025
5944, 5949, 5950,	<code>\LT@array</code> .... 15229, 16011, 19899, 19900, 20661, 20662, 21426, 21427
5967, 5968, 5975,	
5984, 5987, 5994,	
6012, 6630, 6894,	
7043, 7303, 7307,	
7311, 7347, 7351,	
	<code>\longindentation</code> . 11152
	<code>\longthickrule</code> .... ..... 18861, 18867
	<code>\loop</code> ..... 3854, 3855, 3856, 6025, 6035, 9598, 9808, 12507, 12516, 15524, 17868, 17904, 17931, 17942, 17969, 21707
	<code>\looprepeat</code> 6042, 6046, 6090, 6161, 6168,



\LT@bchunk . . . . .	\LTR . . 18025, 23678, 23680	11998, 12018,
. 16052, 16059, 16063	\LTR@column@boxes .	12079, 12107,
\LT@caption . . . 16030,	. 17294, 17338, 17340	12127, 12188,
19901, 19907,	\LTR@outputdblcol .	12216, 12236,
19909, 20663,	. . . 9698, 13149,	12297, 12325,
20669, 20671,	13977, 17085,	12345, 12406,
21428, 21434, 21436	24076, 24120, 24122	12434, 12454,
\LT@cols . . . . . 16065,	\LTRbiditufsesidenotemarginpar 12674, 12702, 12737	\LTRight . . . . . 16014,
19883, 20645, 21410	. . . 7330, 7656, 7806	16016, 16018, 16057
\LT@end@pen . . . . . 16110	\LTRcite . . . . .	\LTRmarginnote . . . . 7803
\LT@endpbox . . . . . 16032	7600, 7720, 7749,	\LTRmarginpar . . . . 24176
\LT@err . . . . . 16111	7778, 7800, 7809, 7818	\LTRmulticolcolumns
\LT@foot . . . . . 15244,	\LTRcolumnfootnotes	. . . . . 17336
15248, 16114,	. . . . . 11327	\LTRsidenote . . 7525, 7785
16118, 16127, 16130	\LTRdblcol . . . . . 24122	\LTRthanks . 418, 438,
\LT@head . . . 16121, 16134	\LTRdfnmakecol . . . 10440	473, 492, 8139,
\LT@hline . . . . . 16030	\LTRfootfootmark . .	8147, 8164, 8180,
\LT@kill . . . . . 16030	. . 11229, 11354,	8191, 9112, 9132,
\LT@lastfoot . . . . .	11568, 11674,	9167, 9186, 10968,
. 16114, 16116, 16127	11780, 11889,	10988, 11023,
\LT@LL@FM@cr 16039, 16043	11998, 12107,	11042, 13693,
\LT@make@row . . . . . 16060	12216, 12325,	16831, 18515,
\LT@makecaption . .	12434, 12702, 13764	18555, 18601,
. . 16064, 16075,	\LTRfootmarkstyle .	18621, 18775,
19875, 20637, 21402	. . . . . 11340, 11379	18805, 18845,
\LT@mc col 16020, 16065,	\LTRfootnote . . . 418,	18863, 18972,
19883, 20645, 21410	492, 2299, 4213,	18992, 19027,
\LT@no@pgbk . 16028, 16029	4221, 7789, 8139,	19046, 19427,
\LT@nofcols . . . . . 16059	9112, 9186, 10968,	19606, 20167,
\LT@output . . . . . 16108	11042, 13539,	20346, 20940, 21119
\LT@p@ftn . . . . 14853,	13724, 13727,	\ltx@firstofthree .
14856, 14860,	18515, 18621,	. . . . . 13409, 13433
14870, 14891,	18775, 18863,	\ltx@ifundefined . .
14894, 14898,	18972, 19046,	. . . . . 13403, 13427
14908, 16101,	19427, 20167, 20940	\ltx@secondofthree
16102, 16104, 16105	\LTRfootnotetext . .	. . . . . 13412, 13436
\LT@p@ftntext . . . . 16094	. . . . 4279, 4290,	\ltx@thirdofthree .
\LT@p@LTRftntext . .	8570, 8580, 13695,	. 13405, 13422, 13429
. . . . . 14851,	13697, 14854,	
14858, 16095, 16100	16101, 21753, 21757	
\LT@p@RTLftntext . .	\LTRfootscript . . . .	M
. . . . . 14889,	. . 11340, 11357,	\m@advipersep . . . .
14896, 16096, 16103	11361, 11363,	. . . . . 17027, 17127
\LT@rows . . . 16054, 16079	13767, 13771, 13773	\m@m@float@spacing 11331
\LT@setprevdepth . 16055	\LTRfoottextfont . .	\m@m@footnote@spacing
\LT@start . . 15246, 15256	. . . . . 11230,	. . 11236, 11250,
\LT@startpbox . . . . .	11266, 11291,	11264, 11278,
. 16036, 16043, 16092	11419, 11540,	11289, 11300,
\LT@tabularcr . . . . 16026	11568, 11588,	11330, 11529,
\LT@caption . . . . .	11648, 11674,	11539, 11549,
. 16077, 16081, 16082	11693, 11752,	11575, 11587,
\LTcapwidth . . . . . 16065	11780, 11800,	11600, 11611,
\LTleft . . . . . 16014,	11861, 11889,	11616, 11638,
16016, 16018, 16056	11909, 11970,	11647, 11656,



11681,	11692,	..... 11475, 11487	12514, 12764,
11704,	11714,	\m@make@fourcol@footgroup	12774, 12784, 12793
11719,	11741,	..... 11730, 11821	\m@mmf@prepare 11246,
11751,	11761,	\m@make@peightcol@footgroup	11260, 11274,
11787,	11799,	..... 12172, 12262	11335, 11537,
11812,	11823,	\m@make@mpfivecol@footgroup	11547, 11557,
11828,	11850,	..... 11845, 11935	11583, 11596,
11860,	11870,	\m@make@mpfourcol@footgroup	11608, 11645,
11896,	11908,	..... 11736, 11826	11654, 11663,
11921,	11932,	\m@make@mpninecol@footgroup	11688, 11700,
11937,	11959,	..... 12281, 12371	11711, 11749,
11969,	11979,	\m@make@mppara@footgroup	11759, 11769,
12005,	12017,	. 12559, 12621, 12780	11795, 11808,
12030,	12041,	\m@make@mpsevenscol@footgroup	11820, 11858,
12046,	12068,	..... 12063, 12153	11868, 11878,
12078,	12088,	\m@make@mpsixcol@footgroup	11904, 11917,
12114,	12126,	..... 11954, 12044	11929, 11967,
12139,	12150,	\m@make@mptencol@footgroup	11977, 11987,
12155,	12177,	..... 12390, 12480	12013, 12026,
12187,	12197,	\m@make@mpthreecol@footgroup	12038, 12076,
12223,	12235,	..... 11633, 11717	12086, 12096,
12248,	12259,	\m@make@mptwocol@footgroup	12122, 12135,
12264,	12286,	..... 11524, 11614	12147, 12185,
12296,	12306,	\m@make@ninescol@footgroup	12195, 12205,
12332,	12344,	..... 12275, 12366	12231, 12244,
12357,	12368,	\m@make@para@footgroup	12256, 12294,
12373,	12395,	. 12543, 12601, 12760	12304, 12314,
12405,	12415,	\m@make@para@footstart	12340, 12353,
12441,	12453,	. . 12544, 12550,	12365, 12403,
12466,	12477,	12602, 12608, 12798	12413, 12423,
12482,	12564,	\m@make@sevenscol@footgroup	12449, 12462,
12626,	12661,	..... 12057, 12148	12474, 12670,
12673,	12685,	\m@make@sixcol@footgroup	12682, 12694,
12716,	12735,	..... 11948, 12039	12731, 12745, 12759
12749,	12767,	\m@make@tencol@footgroup	\m@mold@footnotetext
12777, 12786, 12795		..... 12384, 12475	. 11308, 11316, 12593
\m@m@h .....	11494,	\m@make@threecol@footgroup	\m@mold@LTRfootnotetext
	11496, 11498,	..... 11627, 11712	..... 11309, 11317
	11501, 11502, 11507	\m@make@twocol@footgroup	\m@mold@mpfootnotetext
\m@m@k .....	11494,	..... 11518, 11609	. 11311, 11319, 12614
	11496, 11501,	\m@mdoextrafeet ...	\m@mold@mpLTRfootnotetext
	11504, 11505, 11507	. 11388, 12868, 12882	..... 11312, 11320
\m@m@makecolfloats		\m@mdoextrafeetendmini	\m@mold@mpRTLfootnotetext
. 12816, 12869, 12875		..... 11457, 11470	. 11313, 11321, 12619
\m@m@makecolintro .		\m@mdoextrafeetmini	\m@mold@RTLfootnotetext
. 12831, 12860, 12873		..... 11429	. 11310, 11318, 12598
\m@m@makecoltext ..		\m@mDOSplits .. 11499,	\m@mopfootnote ....
. 12820, 12870, 12883		11503, 11504, 11505	..... 12832, 12866
\m@m@singlespace . 11329		\m@minterparanoteglue	\m@mremovehboxes ..
\m@make@eightcol@footgroup		..... 12500, 12502	..... 12522,
..... 12166, 12257		\m@mipn@skip .....	12523, 12765,
\m@make@fivecol@footgroup		. 12492, 12499, 12501	12775, 12785, 12794
..... 11839, 11930		\m@mmakehboxofhboxes	\m@mrigidbalance ..
\m@make@footstart .		..... 12504,	..... 11496,



11501, 11613,	\makelabel . . . . .	10264, 10265, 10266
11618, 11716,	2338, 2358, 2381,	\maketitledetailwidth
11721, 11825,	2401, 8020, 23780	. . . . . 10237,
11830, 11934,	\MakeLineNo . . . . . 15574	10239, 10240,
11939, 12043,	\makeLineNumber . . .	10241, 10242, 10257
12048, 12152,	. . . . . 15575, 15577	\maketitlehookb . . 16889
12157, 12261,	\makeLineNumberLeft	\maketitlehookc . . 16891
12266, 12370,	. . . . . 15580	\maketitlenamefullwidth
12375, 12479, 12484	\makeLineNumberRight	. 10231, 10232, 10234
\m@msplitoff 11504, 11506	. . . . . 15588	\maketitlenamemaxwidth
\m@mungebox . . . . .	\maketag@@@ . . . . 336,	. 10229, 10230, 10234
. . 12493, 12670,	10629, 10642, 16166	\maketitlenamewidth
12682, 12694,	\makethanksmark . . 16844	. . . . . 10233,
12731, 12745, 12759	\maketitle . . . . 110,	10234, 10240, 10252
\m@munvxh . . 12485, 12494	313, 320, 412,	\maketitlepage 8201, 8243
\m@ne . . . 304, 551, 560,	440, 451, 475, 735,	\maketitlepicturewidth
4812, 5007, 5762,	780, 802, 824, 987,	. . . . . 10235,
5769, 6021, 6026,	1032, 1054, 1076,	10236, 10242, 10271
6036, 6117, 7298,	1237, 1282, 1304,	\MakeUppercase . 125,
7342, 7386, 9059,	1326, 4053, 4065,	571, 599, 600,
9217, 9254, 9598,	4560, 8115, 8219,	615, 706, 864, 969,
10816, 10825,	8243, 8823, 8868,	1116, 1219, 8711,
11086, 12908,	9000, 9045, 9106,	8785, 8888, 8973,
12925, 15076,	9134, 9145, 9169,	9098, 9099, 9282,
17268, 18126,	10136, 10250,	10844, 11115,
18892, 19077,	10869, 10893,	12952, 15404,
19114, 19975,	10904, 10926,	18245, 18342,
20745, 20748,	10962, 10990,	18500, 18736,
21510, 21513,	11001, 11025,	18959, 18960, 19133
22002, 22044,	12969, 12993,	\marginline . . . . .
23098, 24188,	13004, 13026,	. 19715, 20476, 21241
24232, 24267, 24270	15023, 15024,	\marginnote . . . . . 7794
\m@th 403, 10632, 10637,	15389, 16839,	\marginpar . . . . .
10643, 13197,	18371, 18416,	6864, 7572, 19716,
13212, 16061,	18438, 18460,	20477, 21242, 23365
23170, 23279,	18508, 18557,	\marginparpush 6797, 24286
23750, 23844,	18579, 18603,	\marginparsep . . . . .
23916, 23918, 23977	18769, 18807,	. . . . 4043, 4445,
\maincolumnwidth . .	18818, 18847,	6838, 6841, 6845,
4534, 4543, 4544,	18966, 18994,	6997, 7004, 14340,
4545, 4546, 4548,	19005, 19029,	14342, 14346,
4552, 4567, 4571, 4596	19379, 19502,	14351, 14354,
\mainend . . . . . 2925	19509, 19530,	14356, 24297, 24299
\mainmatter . . . . . 8318	19537, 19544,	\marginparwidth 4042,
\makeatletter . 5427, 5446	19608, 20119,	4446, 6837, 6842,
\makebox . . . . . 10631,	20242, 20249,	6854, 6952, 7222,
10636, 10705,	20270, 20277,	7315, 7359, 7403,
10708, 10711,	20284, 20348,	14340, 14342,
10718, 10726,	20892, 21015,	14354, 14356,
10733, 10774,	21022, 21043,	24205, 24249, 24299
10778, 17680, 17698	21050, 21057, 21121	\markboth . . 124, 565,
\makefooter . . . . .	\maketitledetailsnewline	8323, 10830, 15403
. 10154, 10155, 10171	. . 10245, 10260,	\math@cr@@@align . . 338
\MakeFramed . . . . . 13817	10262, 10263,	\mathindent . 13198, 13214



<code>\mathsurround</code> . . . . .	9332	.. 16201, 16214,	13909, 13914,
<code>\max@poem@no</code> . . . . .		16215, 16216,	13919, 13932,
... 8518, 8620, 8621		16217, 16219, 16220	13943, 13951, 13963
<code>\maxdepth</code> . . . . .	12871,	<code>\mdf@frametitlefont</code>	<code>\MessageBreak</code> . . . . .
12884, 14189, 14196		..... 16204	..... 148, 5679,
<code>\maxdimen</code> . . . . .		<code>\mdf@frametitlefontcolor</code>	5693, 5705, 5717,
9639, 9640, 9642,		..... 16203	6394, 6405, 6412,
9702, 9703, 9705,		<code>\mdf@horizontalmargin@equation</code>	6424, 6430, 6528,
12666, 12678,		..... 16179	6581, 6582, 6583,
12690, 12727,		<code>\mdf@ignorevbadness</code>	6597, 6598, 6600,
12741, 12755,		..... 16213	6878, 6974, 7201,
13069, 13117,		<code>\mdf@lrbbox</code> . 16172, 16201	7202, 7270, 7874,
13118, 13119,		<code>\mdf@par@local</code> ... 16195	7875, 7876, 7878,
13153, 13154,		<code>\mdf@patchamsthm</code> . 16173	7879, 7883, 7884,
13155, 13824,		<code>\mdfframetitleenv</code> 16200	7885, 7887, 7888,
13985, 13986,		<code>\mdfframetitleboxdepth</code>	15459, 15501,
13988, 14034,		..... 16217	15502, 15505,
14035, 14037,		<code>\mdfframetitleboxheight</code>	16940, 16941,
16989, 16990,		..... 16216	17271, 17290,
16992, 17089,		<code>\mdfframetitleboxtotalheight</code>	17359, 17439,
17090, 17092,		..... 16218	17446, 19329,
21700, 21739,		<code>\mdfframetitleboxwidth</code>	19502, 19509,
23230, 23233,		..... 16215	19530, 19537,
23238, 23242,		<code>\mdseries</code> . . . . . 307,	19544, 19692,
23246, 23250,		10130, 10132,	19699, 19731,
23254, 23258,		10134, 10135,	19740, 19804,
23262, 23266,		10222, 10223,	19806, 19808,
23451, 24033,		10224, 10227, 10228	19809, 19810,
24034, 24036,		<code>\meaning</code> . . . . .	20068, 20242,
24080, 24081, 24083		4721, 4724, 4967,	20249, 20270,
<code>\mbox</code> . . . . .	14301,	5417, 5444, 5459,	20277, 20284,
15568, 19435,		5477, 5485, 5494, 5561	20453, 20460,
19557, 19571,		<code>\mediabutton</code> . . . . .	20492, 20501,
19586, 20175,		. 16764, 16824, 16825	20565, 20567,
20297, 20311,		<code>\medskip</code> . . . . . 8425	20569, 20570,
20326, 20948,		<code>\medskipamount</code> . . . .	20571, 20841,
21070, 21084, 21099		.... 1723, 1732,	21015, 21022,
<code>\mc@col@status@write</code>		1741, 2561, 2576,	21043, 21050,
..... 17298, 17319		2591, 2733, 2745,	21057, 21218,
<code>\mc@gridwarn</code> . . . . .	17288	2757, 2826, 11154	21225, 21257,
<code>\mc@lastcol@status@write</code>		<code>\mem@makecol</code> 12859, 12885	21266, 21330,
..... 17304, 17327		<code>\memRTLleftskip</code> .. 16862	21332, 21334,
<code>\mdf@footnotedistance@length</code>		<code>\memRTLlraggedleft</code> 16867	21335, 21336,
..... 16229		<code>\memRTLraggedright</code> 16866	22677, 22679, 22682
<code>\mdf@footnoteinput</code> 16237		<code>\memRTLrightskip</code> . 16863	<code>\metropolis@block</code> . 2825
<code>\mdf@footnoteoutput</code>		<code>\memRTLvleftskip</code> . 16864	<code>\metropolis@blockadjust</code>
..... 16226		<code>\memRTLvrightskip</code> 16865	.... 2845, 2846,
<code>\mdf@frametitleaboveskip@length</code>		<code>\message</code> .. 3928, 3930,	2847, 2851, 2852, 2853
..... 16221		13825, 13833,	<code>\metropolis@blocksep</code>
<code>\mdf@frametitlealignment</code>		13837, 13842,	... 2845, 2851, 2868
..... 16202		13850, 13856,	<code>\metropolis@parskip</code>
<code>\mdf@frametitlebelowskip@length</code>		13866, 13871,	..... 2869, 2872
..... 16222		13873, 13880,	<code>\metropolis@progressinheadfoot</code>
<code>\mdf@frametitlebox</code>		13888, 13901,	... 3049, 3056, 3058



\metropolis@progressinheadfoot@linewidth	16481,	\mpfootnoterule ...
... 3054, 3056, 3058	16491, 16492,	..... 13511, 13515
\metropolis@progressonsectionpage	16494, 16495,	\msg .... 16313, 16316,
... 2812, 2818, 2820	16500, 16501,	16364, 16367,
\metropolis@progressonsectionpage@linewidth	16519,	16382, 16385, 16427
... 2816, 2818, 2820	16521, 16526,	\MT ..... 10665,
\metropolis@strut .	16565, 16572,	10671, 10673, 16164
..... 2858, 2860	16573, 16576,	\mult@cols ..... 17377
\MH 10641, 10645, 10650,	16594, 16596,	\mult@firstbox ....
10651, 10655,	16599, 16601,	. 17295, 17309, 17315
10659, 10660,	16604, 16611,	\mult@footnotetext
10664, 10672,	16619, 16621,	..... 151, 153,
10674, 10679,	16674, 16679,	17362, 17365, 17378
10691, 10699,	16690, 16691,	\mult@info ..... 17269
10704, 10707,	16694, 16725,	\mult@LTRfootnotetext
10710, 10712,	16730, 16732,	..... 155, 157,
10713, 10715,	16739, 16740,	17367, 17370, 17382
10716, 10719,	16743, 16758,	\mult@rightbox ....
10720, 10722,	16762, 16765,	.. 17262, 17302,
10723, 10725,	16767, 16776,	17303, 17305,
10727, 10728,	16779, 16789,	17324, 17325, 17328
10730, 10731,	16790, 16792,	\mult@RTLfootnotetext
10734, 10735,	16815, 16821, 16825	..... 159, 161,
10737, 10738,	\mkern ..... 23171,	17372, 17375, 17386
10740, 10745,	23172, 23280, 23978	\multfootsep .. 7614, 7632
10746, 10747,	\mobile ..... 4522	\multi@column@out .
10748, 10749,	\Mobilefone ..... 4482	..... 17431, 17474
10750, 10751,	\mobilesymbol .....	\multicol@leftmargin
10752, 10753,	. 4482, 10164, 10262	..... 17272, 17281
10762, 10764,	\mode ..... 16435, 16768	\multicols ..... 17347
10768, 10769, 10771	\modernpoem ..... 8673	\multicolumn 16020, 21674
\MHInternalSyntaxOff	\modernpoem@obeylines	\multiplefootnotemark
..... 10786, 16169	..... 8420, 8673	..... 7613, 7629,
\MHInternalSyntaxOn	\modernpoem@par ...	7723, 7724, 7752,
..... 10626, 16163	... 8420, 8421, 8637	7753, 7781, 7782,
\MidFrameCommand ..	\morefloats ... 7104, 7201	11334, 11336, 11337
. 13813, 13857, 13925	\moreLRE ..... 3672,	\multiply ..... 2429,
\minrowclearance ..	3957, 17987, 23636	2433, 4027, 4032,
... 1460, 1494, 9437	\moreRLE ..... 3674,	4370, 12581,
\mintagvsep ..... 10646	3959, 17988, 23637	12643, 17411,
\missingfigure ....	\moveleft ... 7254, 17183	17412, 17415,
..... 23409, 23439	\moveright .....	17416, 17887, 17891
\mix 16258, 16259, 16266,	. 13304, 17281, 24369	
16267, 16293,	\mp@footgroupv@r ..	N
16310, 16333,	.. 11448, 11493,	\n@xt ..... 3670,
16336, 16338,	11525, 11634,	3672, 3674, 3675,
16361, 16393,	11737, 11846,	3955, 3957, 3959, 3960
16401, 16410,	11955, 12064,	\na ..... 17890, 17892,
16421, 16432,	12173, 12282,	17894, 17903,
16434, 16439,	12391, 12561, 12623	17905, 17930, 17931
16440, 16442,	\mp@LTRfootgroupv@l	\narrower ..... 23909
16443, 16445,	..... 11440,	\NAT@bibitem@first@sw
16457, 16466,	11452, 12562, 12624	..... 17576
16469, 16470,		



<code>\nb</code>	17890, 17893, 17894, 17903, 17904, 17925, 17941, 17942	4991, 4994, 4997, 4999, 5001, 5003, 5022, 5051, 5076, 5105, 5130, 5168, 5202, 5219, 5230, 5236, 5280, 5285, 5407, 5431, 5482, 5491, 5571, 5576, 5579, 5582, 5585, 5588, 5591, 5595, 5598, 5612, 5624, 5637, 5652, 6216, 6217, 6233, 6248, 6252, 6258, 6261, 6264, 6267, 6272, 6275, 6278, 6282, 6286, 6289, 6290, 6291, 6293, 6301, 6310, 6312, 6322, 6324, 6336, 6338, 6345, 6353, 6355, 6364, 6366, 6377, 6379, 6380, 6384, 6388, 6458, 6468, 6472, 6477, 6511, 6549, 6572, 6573, 6574, 6606, 6607, 6608, 6609, 6620, 6717, 6718, 6719, 6720, 6742, 6745, 6772, 6799, 6800, 6801, 6802, 6817, 6836, 6872, 6874, 6875, 6880, 6881, 6883, 6884, 6891, 6892, 6893, 6901, 6904, 6992, 7010, 7220, 7228, 7238, 7241, 7249, 7418, 7419, 7420, 7421, 7422, 7423, 7424, 7425, 7426, 7427, 7428, 7429, 7430, 7431, 7432, 7433, 7434, 7435, 7436, 7437, 7438, 7439, 7440, 7441, 7442, 7443, 7452, 7502, 7521, 7540, 7562, 7568, 7593, 7594, 7628, 7784, 7785, 7786, 7794, 7803, 7812, 7825, 7826, 7949, 8002, 8082,	8095, 8129, 8130, 8131, 8132, 8133, 8134, 8135, 8136, 8187, 8201, 8377, 8384, 8393, 8397, 8407, 8426, 8623, 8624, 10245, 10439, 10440, 10449, 10456, 10472, 10478, 10494, 10501, 11170, 11184, 11211, 11215, 11221, 11227, 11381, 11384, 12524, 12589, 12846, 12885, 12886, 12887, 12888, 13327, 13330, 13389, 13394, 13396, 13402, 13418, 13442, 13454, 13508, 13554, 13555, 13556, 13609, 13611, 13738, 13741, 13744, 13747, 14384, 15627, 15638, 17333, 17336, 17339, 19282, 19283, 20021, 20022, 20794, 20795, 23320, 23322, 23627, 23628, 23676, 23677, 23768, 23890, 23891, 23993, 24121, 24122, 24319
<code>\NC@find</code>	..... 21706		
<code>\NC@rewrite@X</code>	.... 21705		
<code>\NeedsTeXFormat</code>	...		
	3569, 4020, 4076, 4209, 4401, 4650, 4718, 6713, 7279, 7821, 7967, 8083, 8110, 8259, 8283, 8348, 10074, 10172		
<code>\new@command</code>	.. 5009, 5011		
<code>\new@poem@width</code>	...		
	8435, 8436, 8437, 8438, 8523, 8557, 8560		
<code>\newblock</code>	. 4648, 8535, 8635, 17570, 17572		
<code>\newboolean</code>	.... 6721, 6724, 6726, 6728, 6729, 6741, 6805, 6815, 6882, 6905, 7206, 7830, 8089, 8116		
<code>\newbox</code>	..... 8490, 8491		
<code>\newcommand</code>	.... 1952, 1960, 2470, 2478, 2497, 3246, 3604, 3605, 3611, 3617, 3634, 3635, 3639, 3640, 3651, 3654, 3657, 3661, 3681, 3682, 3697, 3713, 3729, 3858, 4114, 4120, 4123, 4124, 4125, 4126, 4127, 4128, 4129, 4426, 4512, 4517, 4518, 4519, 4521, 4522, 4523, 4525, 4526, 4528, 4529, 4540, 4541, 4561, 4568, 4570, 4574, 4578, 4580, 4586, 4595, 4597, 4599, 4603, 4607, 4612, 4624, 4648, 4654, 4827, 4835, 4843, 4851, 4868, 4874, 4880, 4886, 4892, 4898, 4904, 4910, 4917, 4920, 4923, 4929, 4941, 4947, 4959, 4962, 4964, 4971, 4975, 4981, 4988,		
<code>\newcount</code>	. 3848, 4023, 4024, 4652, 4662, 4666, 5020, 5755, 5858, 6018, 6079, 6159, 11494, 23985		
<code>\newcounter</code>	7501, 8619, 13223, 13387, 22231, 22235, 22236		
<code>\newdimen</code>	. 8381, 8382, 8432, 11494, 14113		
<code>\newenvironment</code>	...		
	4161, 4172, 4181, 4190, 4625, 6851, 6866, 6869, 6907,		



7034, 8608, 8672,	6833, 6834, 6835,	20185, 20256,
15325, 23680,	6889, 6906, 7694,	20293, 20302,
23690, 23846,	10229, 10231,	20306, 20316,
23855, 23864, 23873	10233, 10235,	20320, 20331,
\newfloat@@setwithin	10237, 22263,	20335, 20949,
..... 17603,	22265, 22266, 22979	20958, 21029,
17609, 17617, 17619	\newline ..... 4593,	21066, 21075,
\newfloat@Error .. 17622	7068, 19732,	21079, 21089,
\newfloat@setwithin	19741, 20493,	21093, 21104, 21108
..... 17589	20502, 21258, 21267	\next@tpage ... 19435,
\newif 3632, 3633, 3637,	\newlinechar ..... 3900	19442, 19488,
3638, 3641, 3642,	\newlinetospace ...	19564, 19578,
3643, 3644, 3645,	7065, 7085, 7086,	19593, 20175,
3646, 3647, 3649,	7087, 8324, 8325, 8326	20182, 20228,
3650, 3941, 3942,	\newlistentry 22228, 22295	20304, 20318,
3943, 3944, 3945,	\newpage ..... 465,	20333, 20948,
3946, 4403, 4432,	487, 816, 836,	20955, 21001,
4611, 4659, 5433,	1068, 1088, 1318,	21077, 21091, 21106
5924, 8304, 8492,	1338, 6575, 6577,	\ninecolumnfootnotes
10077, 10079,	6581, 6586, 6587,	..... 12267
10081, 10083,	6590, 6594, 6596,	\no ..... 2930, 2955, 2975
10148, 10175,	6599, 8220, 8257,	\no@bib@break .....
10177, 10179,	8258, 9159, 9181,	. 19678, 20439, 21204
10181, 10244,	10071, 10918,	\noalign .. 1374, 8546,
11168, 11169,	10938, 11015,	11504, 16027,
13385, 13393,	11037, 13018,	16028, 16029,
16171, 23318, 23319	13038, 16027,	19876, 19902,
\newinsert .....	16853, 18452,	19904, 20638,
3677, 3962, 7107,	18472, 18593,	20664, 20666,
7108, 7109, 7110,	18615, 18837,	21403, 21429, 21431
7111, 7112, 7113,	18859, 19019, 19041	\nobibliography ... 7498
7114, 7115, 7116,	\newpoem@tabcr ....	\nobidilogo ..... 3991
7117, 7118, 7119,	... 8636, 8645, 8646	\nobreak ..... 14, 16,
7120, 7121, 7122,	\newsavebox .... 4160,	209, 211, 517, 535,
7123, 7124, 7125,	6850, 6885, 6886	562, 566, 654, 655,
7126, 7127, 7128,	\newskip .....	669, 695, 882, 883,
7129, 7130, 7131,	4198, 4199, 4200,	897, 913, 1137,
7132, 7133, 7134,	5012, 12499, 13975	1138, 1152, 1179,
7135, 7136, 7137,	\newthought ..... 8023	2111, 2118, 3234,
7138, 7139, 7140,	\NewTokenList ..... 5965	6637, 7621, 7961,
7156, 7157, 7158,	\newtoks ..... 4211,	7962, 8446, 8448,
7159, 7160, 7161,	4732, 4733, 5756,	8454, 8732, 8733,
7162, 7163, 7164,	5757, 5927, 5940,	8747, 8771, 8909,
7165, 7166, 7167,	5965, 6018, 8433,	8910, 8924, 8948,
7168, 7169, 7170,	13395, 17983, 23632	9062, 9070, 9082,
7171, 7172, 7173,	\newXeTeXintercharclass	9211, 9227, 9257,
7174, 7175, 7176,	..... 3850, 3851	9262, 9270, 9488,
7177, 7178, 7179,	\next ..... 24016, 24019	10799, 10812,
7180, 7181, 11483,	\next@tdpage .. 19436,	10827, 10831,
11488, 11491, 11492	19445, 19516,	10839, 11066,
\newlength .....	19553, 19562,	11089, 11094,
4530, 4531, 4532,	19566, 19576,	11103, 11147,
4534, 4535, 4536,	19580, 19591,	11148, 12902,
4538, 4539, 4622,	19595, 20176,	12918, 12927,



12931,	12939,	5474, 5475, 5476,	22803,	22810,
15380,	15382,	5478, 5484, 5485,	22815,	22816,
15427,	16134,	5487, 5493, 5494,	22902,	23302,
16228,	17232,	5496, 5558, 5560,	23303,	23304,
17243,	17244,	5561, 5775, 5921,	23305,	23306,
17255,	17256,	5926, 5932, 5980,	23307,	23308,
18129,	18131,	6008, 6011, 6014,	23309,	23310,
18284,	18285,	6015, 6099, 6106,	23552,	23567,
18299,	18323,	6109, 6110, 6127,	23595,	23601,
18656,	18657,	6131, 6133, 6134,	23614, 23939, 24323	
18671,	18695,	6135, 6143, 6144,	\noindent . . . . . 455,	
18886,	18902,	6145, 6148, 6149,	630, 639, 937,	
19071,	19087,	6150, 6185, 6242,	1189, 1198, 2519,	
19116,	19120,	6403, 6404, 6406,	2526, 2533, 2877,	
19128,	19653,	6542, 6647, 6681,	2883, 2889, 4057,	
21861,	21878,	6682, 7470, 7472,	6860, 7053, 7644,	
21885,	22026,	7480, 7873, 7876,	7662, 7680, 7797,	
22029,	22057,	7882, 7885, 8567,	7806, 7815, 8025,	
22058,	22080,	8570, 8573, 8625,	8045, 8206, 8208,	
22081,	22097,	10029, 10381,	8210, 8401, 8781,	
22098,	22114,	10433, 13225,	8969, 9149, 9345,	
22115,	22131,	13226, 13231,	10908, 11005,	
22132,	22148,	13232, 13284,	11150, 11213,	
22149,	22165,	14126, 14136,	12668, 12680,	
22166,	22183,	14844, 14854,	12692, 12729,	
22184,	22202,	14862, 14863,	12743, 12757,	
22203,	22222,	14864, 14866,	12769, 12779,	
22223,	22257,	14892, 14900,	12788, 12797,	
22258,	22293,	14901, 14902,	13008, 14204,	
22455,	22456,	14904, 14933,	15566, 16917,	
22565,	22567,	14934, 14935,	18260, 18269,	
22658,	22690,	14937, 14964,	18710, 18719,	
22695,	22698,	14965, 14966,	18785, 18828,	
23163,	23168,	14968, 14995,	19009, 19319,	
23176,	23277,	14996, 14997,	19358, 19436,	
23278,	23282,	14999, 16056,	19439, 19443,	
23975, 23976, 23980		16101, 16104,	19653, 19838,	
\nobreakspace . . . . . 561		16692, 16957,	19849, 20058,	
\node . 2971, 2973, 2978,		19395, 19396,	20098, 20176,	
2979, 2981, 2982,		19397, 19398,	20179, 20183,	
23363, 23393, 23399		19399, 19400,	20599, 20610,	
\noexpand . . . . . 393,		19675, 19676,	20831, 20871,	
4233, 4234, 4248,		20135, 20136,	20949, 20952,	
4249, 4276, 4279,		20137, 20138,	20956, 21364,	
4282, 4687, 4728,		20139, 20140,	21375, 23341,	
4737, 4741, 4761,		20436, 20437,	23344, 23346,	
4765, 4864, 4966,		20908, 20909,	23348, 23351,	
4967, 4969, 5026,		20910, 20911,	23355, 23357,	
5054, 5080, 5108,		20912, 20913,	23413, 23475, 23908	
5134, 5137, 5171,		21201, 21202,	\nointerlineskip ..	
5174, 5412, 5413,		21570, 21642,	. . . . 1812, 1825,	
5414, 5416, 5417,		21679, 21680,	2568, 2583, 2598,	
5442, 5444, 5462,		21753, 21760,	2862, 3048, 3110,	
5463, 5464, 5467,		22238, 22770,	3115, 3258, 3275,	





6165, 6171, 6177, 6180, 6186, 6190, 8518, 8612, 9851, 9853, 9862, 9866, 9930, 9951, 10305, 10326, 10371, 10377, 10380, 10423, 10429, 10432, 10683, 10686, 15374, 17350	\numberline . . . . .	1410, 1411, 1412, 1414, 1415, 1435, 1436, 1437, 1441, 1442, 1443, 1444, 1445, 1449, 1450, 1478, 1479, 1480, 1482, 1483, 3736, 3742, 3748, 3754, 3760, 3766, 3768, 3770, 3772, 3778, 3784, 3790, 3803, 3811, 3818, 3828, 9420, 9421, 9422, 9424, 9425, 14688, 14692, 22270, 22273, 22276, 23216, 23327, 23334, 23556, 23605, 24008, 24009, 24011	873, 889, 906, 924, 959, 961, 964, 966, 1000, 1114, 1118, 1129, 1145, 1163, 1171, 1203, 1209, 1250, 3678, 3963, 4469, 4470, 4474, 4475, 6753, 6754, 6755, 6762, 6763, 6764, 6766, 6767, 7972, 7973, 7974, 7976, 7977, 8043, 8709, 8713, 8724, 8740, 8756, 8763, 8802, 8808, 8836, 8886, 8890, 8901, 8917, 8933, 8940, 8955, 8961, 9013, 9057, 9063, 9068, 9072, 9074, 9077, 9080, 9084, 9086, 9096, 9101, 9115, 9204, 9219, 9232, 9234, 9236, 9238, 9252, 9258, 9263, 9266, 9271, 9503, 9513, 9526, 9536, 9549, 9559, 9572, 9582, 9879, 9886, 10045, 10065, 10283, 10284, 10791, 10805, 10861, 10863, 10865, 10867, 10876, 10971, 11060, 11084, 11090, 11095, 11099, 11104, 11160, 11162, 11164, 11166, 11209, 11210, 12895, 12910, 12923, 12928, 12932, 12935, 12940, 12943, 12945, 12947, 12949, 12976, 13077, 13474, 13476, 13477, 13478, 13479, 13480, 13512, 14231, 14238, 14277, 14284, 14329, 15342,
\numberline@box . . . . . . . . 22661, 22662	\numberline@tempa 23293	\orig@footnotetext . . . 152, 17364, 17381	
\numberwithin . . . . . 329	\numexpr . . 5231, 6654, 22428, 22540, 22770	\orig@LTRfootnotetext . . . 156, 17369, 17385	
\nxLcs . . . 4139, 4140, 4141		\orig@RTLfootnotetext . . . 160, 17374, 17389	
<b>O</b>		\origin@RaggedLeft . . . 18231, 18233, 18234	
\obeylines . . . 8536, 8637		\origin@RaggedRight . . . 18232, 18233, 18234	
\ocgbase . . . 16748, 16750		\originalHbadness . . . . . . 23389, 23407	
\oddpage . . . . .	4024, 4028, 4029, 4030, 4033, 4034, 4035	\othermargin . . . . . 879	
\oddsidemargin . . . .	. . . . . 4046, 4441, 10603, 10607, 10613, 14360, 14369, 14373, 19404, 20144, 20917, 24344, 24348	\outer . . . . . 4017	
\offinterlineskip .	. . . . . 2046, 2057	\outer@nobreak . . . .	
\on@stripcols@break 9788		4396, 7320, 7364, 7408, 24210, 24254	
\onecolumn . . . . .	. . . 604, 620, 869, 1121, 4479, 8716, 8893, 9103, 18250, 18505, 18964, 21991	\outputpenalty . 9994, 9997, 10006, 10009, 10019, 10022, 16109, 16110	
\opening . . . 11135, 15415		\overfullrule . . . . .	
\OptArg . . . . . 4140, 4206		. . . 4430, 4431, 18112	
\OptArg@i . . . . 4206, 4207		\OVP@calc . . . . . 17677	
\OptArg@ii . . . 4206, 4208			
\OptArgs . . . . . 4205		<b>P</b>	
\optparams . . . . .	6927, 7784, 7785, 7786, 7788, 7789, 7790	\p@ . . . 27, 29, 30, 31, 99, 103, 219, 223, 231, 233, 234, 235, 311, 421, 510, 527, 539, 541, 543, 545, 597, 602, 613, 617, 646, 662, 680, 687, 723, 729, 748, 862, 866,	
\OR . . . . . 6921, 6993, 7013, 7017, 7269			



15346,	15355,	20443, 21208, 21928	5632, 5749, 6382,
15357,	15358,	\p@subfigure . . . . . 21653	6411, 8614, 10086,
15359,	15411,	\p@subtable . . . . . 21654	10184, 13227,
15429,	15431,	\PackageError . . . . .	13930, 15458,
15433,	15435,	. . . . . 144, 4798,	15470, 17289,
16895,	17225,	4830, 4833, 4838,	17349, 17437,
17237,	17249,	4841, 4846, 4849,	17444, 17583,
17343,	17344,	4854, 4857, 5014,	22233, 22584, 22675
17391,	17393,	6591, 6718, 7826,	\PackageWarningNoLine
17394,	17395,	12526, 15618,	4673, 5044, 5069,
18243,	18247,	15625, 15793,	5098, 5123, 5155,
18276,	18292,	15796, 15799,	5161, 5189, 5195, 6578
18308,	18315,	15802, 15805,	\page@sofar . . . 164, 17261
18330,	18336,	15808, 15811,	\pagebreak . . . . .
18384,	18498,	15814, 15818,	. 16028, 23459, 23468
18502,	18523,	15821, 15824,	\pagecontents . . . . 18047
18648,	18664,	15827, 15830,	\pagedepth . . . . . 23453
18680,	18687,	15833, 15836,	\pagefillstretch . 23465
18753,	18759,	15839, 15842,	\pagefilstretch . . 23464
18788,	18880,	15845, 15848,	\pagefootnoterule .
18894,	18910,	15851, 15854,	. . . . . 13510, 13518
18912,	18914,	15857, 15860,	\pagegoal 13824, 13826,
18916,	18957,	15863, 15866,	13831, 13838,
18962,	18975,	15869, 15872,	13879, 13881,
19064,	19079,	15875, 15878,	16115, 17195, 23456
19092,	19094,	15881, 15884,	\pageinwindow . . . . 9605
19096,	19098,	15887, 15890,	\pagenumbering 4477, 8308
19112,	19117,	15893, 15896,	\pageref . . . . . 4616, 4618
19121,	19124,	15899, 15902,	\pageshrink 9841, 9844,
19129,	19367,	15905, 15908,	9870, 9894, 13840,
19371,	19374,	15911, 15914,	13844, 13860,
19378,	19929,	15917, 15920,	13886, 13898, 23459
19947,	20107,	15923, 15926,	\pagestretch . . . . .
20111,	20114,	15929, 15932,	. . . 9895, 13839,
20118,	20691,	15935, 15938,	13860, 13898, 23463
20710,	20880,	15941, 15944,	\pagestyle 2053, 4022,
20884,	20887,	15947, 15950,	4468, 4476, 4619,
20891,	21456,	15953, 15956,	7073, 8309, 10170
21475,	21989,	15959, 15962,	\pagetotal . . . 13826,
22264,	22432,	15965, 15968,	13831, 13837,
22435,	22439,	15971, 15974,	16852, 17193,
22544,	22547,	15977, 15980,	17196, 17207,
22551,	22963,	15983, 15986,	23451, 23456, 23514
22966,	22970,	15989, 15992,	\paperheight . . . 2625,
22976,	23087,	15995, 15998,	2630, 2637, 3241,
23271, 23969, 24432		16001, 16004,	4405, 4408, 4411,
\p@enumiv 86, 289, 580,		16007, 17355,	4414, 4417, 4420,
715, 978, 1228,		21889, 22242, 23995	4423, 4424, 10566,
2399, 4640, 8794,		\PackageInfo . . . . .	19409, 20149, 20922
8982, 9291, 10853,		. . . . . 5016, 6279,	\paperwidth 2063, 2681,
11124, 12961,		6381, 6528, 6720,	2943, 2945, 2947,
15328, 18351,		15500, 18214, 23313	2948, 2961, 2968,
18745, 18939,		\PackageWarning . . .	2969, 2973, 2981,
19142, 19682,		. . . . . 138, 5015,	2982, 2999, 3002,



3005, 3026, 3028, 3033, 3035, 3050, 3052, 3054, 3056, 3077, 3113, 3140, 3223, 3225, 3230, 3232, 3243, 3267, 3280, 3283, 3289, 3294, 3316, 3324, 3336, 3356, 3362, 3364, 3378, 3382, 3404, 3408, 3416, 3419, 3425, 3428, 3435, 3438, 3452, 3457, 3459, 3472, 3476, 3495, 3498, 3501, 3507, 3510, 3526, 3529, 3544, 4406, 4409, 4412, 4415, 4418, 4421, 4424, 4425, 10566, 10573, 10583, 19407, 20147, 20920	2807, 2826, 2879, 2885, 2891, 3124, 3126, 3174, 3195, 3203, 3271, 3273, 3369, 3371, 3464, 3466, 4017, 4053, 4394, 6947, 6955, 7014, 7015, 7018, 7019, 7044, 7053, 7054, 7223, 7239, 7963, 8078, 8079, 8080, 8081, 8206, 8208, 8210, 8228, 8229, 8230, 8404, 8511, 8525, 8536, 8554, 8629, 8637, 8662, 8733, 8746, 8771, 8782, 8844, 8854, 8861, 8862, 8910, 8923, 8948, 8970, 9021, 9031, 9038, 9039, 9062, 9070, 9082, 9117, 9123, 9125, 9126, 9145, 9188, 9194, 9198, 9210, 9227, 9257, 9262, 9270, 9347, 9488, 10291, 10312, 10799, 10811, 10827, 10830, 10838, 10878, 10884, 10886, 10887, 10904, 10943, 10949, 10953, 10973, 10979, 10981, 10982, 11001, 11044, 11050, 11054, 11065, 11089, 11094, 11103, 11137, 11142, 11145, 11147, 11148, 11158, 11459, 11565, 11568, 11571, 11671, 11674, 11677, 11777, 11780, 11783, 11886, 11889, 11892, 11995, 11998, 12001, 12104, 12107, 12110, 12213,	12216, 12219, 12322, 12325, 12328, 12431, 12434, 12437, 12769, 12779, 12788, 12797, 12901, 12918, 12927, 12931, 12939, 12978, 12984, 12986, 12987, 13004, 13043, 13049, 13053, 13221, 13681, 15350, 15351, 15352, 15371, 15381, 15389, 15417, 15422, 15425, 15427, 15517, 15659, 16061, 16184, 16207, 16211, 16839, 16911, 16917, 16923, 16927, 16933, 16948, 16967, 16976, 17233, 17245, 17258, 17496, 17508, 17570, 17854, 18025, 18026, 18027, 18028, 18121, 18122, 18129, 18130, 18190, 18261, 18271, 18285, 18298, 18323, 18392, 18402, 18409, 18410, 18438, 18477, 18483, 18487, 18531, 18541, 18548, 18549, 18579, 18623, 18629, 18634, 18639, 18642, 18657, 18670, 18695, 18711, 18721, 18785, 18790, 18796, 18798, 18799, 18818, 18828, 18866, 18871, 18874, 18885, 18902,
\par . . . . . 5, 15, 46, 60, 76, 107, 108, 109, 110, 200, 210, 227, 228, 229, 249, 263, 278, 310, 313, 404, 423, 429, 431, 432, 451, 494, 500, 504, 516, 535, 562, 565, 631, 641, 655, 668, 695, 756, 766, 773, 774, 802, 841, 847, 851, 883, 897, 912, 938, 952, 1008, 1018, 1025, 1026, 1054, 1093, 1099, 1103, 1138, 1151, 1179, 1190, 1200, 1258, 1268, 1275, 1276, 1304, 1344, 1350, 1355, 1360, 1363, 1538, 1541, 1546, 1578, 1583, 1590, 1697, 1705, 1712, 1723, 1732, 1741, 2123, 2491, 2495, 2521, 2528, 2535, 2550, 2561, 2565, 2576, 2580, 2591, 2595, 2707, 2714, 2720, 2726, 2733, 2745, 2757, 2779, 2786, 2800,		



18977,	18983,	. 19447, 20187, 20960	9375, 9494, 10795,
18985,	18986,	\paragraph . . . . . 7859	10809, 11063,
19005,	19048,	\paragraphfootnotes	12697, 12701,
19054,	19058,	. . . . . 12529, 12535	12705, 12899,
19070,	19087,	\parbox . . . . . 4565,	12914, 15379,
19116,	19120,	4567, 10158,	16191, 17226,
19128,	19357,	11153, 13102,	17238, 17250,
19450,	19451,	13103, 13104,	18144, 18157,
19456,	19459,	13108, 13109,	18170, 18181,
19461,	19468,	13110, 14489,	18280, 18296,
19472,	19474,	14491, 14495,	18319, 18652,
19476,	19491,	14497, 14528,	18668, 18691,
19495,	19517,	14529, 14532,	18883, 18898,
19525,	19653,	14533, 14590,	19068, 19083,
19772,	19829,	14591, 14594,	21840, 21869,
19837,	19840,	14595, 14619,	21899, 22018,
19848,	19850,	14621, 14625,	22049, 22072,
19861,	19868,	14627, 16065,	22089, 22106,
20097,	20190,	16905, 16934,	22123, 22140,
20191,	20196,	17494, 17496,	22157, 22175,
20199,	20201,	17497, 17499,	22194, 22214,
20208,	20212,	17501, 17502,	22249, 22444,
20214,	20216,	17504, 17506,	22556, 22624,
20231,	20235,	17508, 17509,	22626, 22690,
20257,	20265,	17511, 17513,	23156, 23158,
20533,	20590,	17514, 17515,	23272, 23885, 23970
20598,	20601,	17516, 17517,	\parindent 12, 42, 56,
20609,	20611,	17518, 17520,	72, 103, 207, 223,
20622,	20629,	17521, 17522,	245, 259, 274, 455,
20870,	20963,	17523, 17524,	513, 530, 557, 601,
20964,	20969,	17525, 17526,	616, 652, 665, 690,
20972,	20974,	17527, 17528,	742, 759, 865, 880,
20981,	20985,	17529, 17531,	892, 909, 946, 994,
20987,	20989,	17532, 17533,	1011, 1057, 1117,
21004,	21008,	17534, 17536,	1135, 1148, 1174,
21030,	21038,	17537, 17538,	1244, 1261, 2519,
21298,	21355,	17539, 17541,	2526, 2533, 2877,
21363,	21366,	17542, 17543,	2883, 2889, 4057,
21374,	21376,	17544, 17545,	4472, 6775, 7446,
21387,	21394,	17546, 17548,	7955, 7997, 8005,
21684,	22294,	17549, 17550,	8070, 8223, 8529,
22300,	22457,	17551, 17552,	8632, 8712, 8730,
22566,	22690,	17553, 17555,	8743, 8766, 8830,
23182,	23284,	17556, 17557,	8847, 8889, 8907,
23341,	23342,	17558, 17559,	8920, 8943, 9007,
23348,	23349,	19884, 20646, 21411	9024, 9058, 9078,
23351,	23359,	\parfillskip . . . . 13,	9100, 9149, 9207,
23412,	23678,	208, 514, 531, 650,	9222, 9253, 9267,
23679,	23688,	666, 691, 877,	9371, 9402, 9493,
23689,	23847,	893, 910, 1133,	10794, 10808,
23856,	23865,	1149, 1175, 7954,	10822, 10835,
23874,	23943,	8530, 8728, 8744,	10908, 11005,
23982,	24411, 24432	8767, 8905, 8921,	11062, 11085,
\par@updaterelative		8944, 9208, 9223,	11100, 11212,



11480,	11560,	19338,	19340,	15303, 15312, 15320
11666,	11772,	19351,	19353,	\pdfsavepos 5036, 5038,
11881,	11990,	20077,	20079,	5061, 5063, 5090,
12099,	12208,	20091,	20093,	5092, 5115, 5117,
12317,	12426,	20850,	20852,	5147, 5149, 5181, 5183
12696,	12700,	20864,	20866,	\pdfstringdefDisableCommands
12704,	12805,	23678,	23688,	..... 15219
12814,	12898,	23814,	23849,	\penalty ..... 751,
12913,	12924,	23851,	23852,	1003, 1253, 8450,
12936,	13008,	23853,	23858,	8772, 8839, 8949,
14203,	15346,	23860,	23861,	9016, 9228, 9332,
15378,	16187,	23862,	23867,	9338, 9991, 10003,
17227,	17239,	23869,	23870,	10016, 12498,
17251,	17563,	23871,	23876,	12698, 12702,
18145,	18158,	23878, 23879, 23880		12706, 12919,
18171,	18182,	\parskip 103, 223, 602,		13861, 18324,
18246,	18282,	617, 866, 1118,		18387, 18526,
18295,	18318,	2057, 2565, 2580,		18696, 18903,
18378,	18395,	2595, 2827, 2872,		19088, 22458,
18501,	18517,	4050, 4473, 6776,		23080, 23188, 23455
18534,	18654,	7447, 7998, 8006,		\pgf@baseline .... 17809
18667,	18690,	8069, 8224, 8528,		\pgf@insertlayers 17831
18785,	18828,	8631, 8666, 8713,		\pgf@nodecallback 17787
18865,	18882,	8890, 9101, 9995,		\pgf@oldpicture .. 17794
18897,	18961,	10007, 10020,		\pgf@picmaxx .. 17788,
19009,	19067,	11141, 11144,		17800, 17802, 17820
19082,	19113,	11146, 11148,		\pgf@picmaxy 17790, 17804
19125,	19319,	15346, 15421,		\pgf@picminx .....
19358,	20058,	15424, 15426,		. 17789, 17803, 17813
20098,	20831,	16187, 16196,		\pgf@picminy 17791, 17805
20871,	21850,	17860, 18193,		\pgf@picture ..... 17794
21887,	21988,	18247, 18502,		\pgf@picture@serial@count
22019,	22050,	18865, 18962,		..... 17785, 17786
22073,	22090,	21989, 23092,		\pgf@process .....
22107,	22124,	23450, 23454, 23784		. 17809, 17812, 17819
22141,	22158,	\part ..... 23, 15365		\pgf@relevantforpicturesizefalse
22176,	22195,	\partname .... 561, 10826		..... 17808
22215,	22250,	\partopsep .....		\pgf@relevantforpicturesizetrue
22443,	22555,	2396, 8019, 16890,		..... 17792
22629,	22631,	16892, 17639, 17659		\pgf@remember@layerlist@globally
23092,	23153,	\PassOptionsToClass		..... 17826
23154,	23273,	8261, 8262, 8263,		\pgf@resetpathsizes
23684,	23694,	8264, 8265, 8285,		..... 17793
23785,	23885,	8286, 8287, 8288, 8289		\pgf@restore@layerlist@from@global
23910, 23911, 23971		\PassOptionsToPackage		..... 17830
\parsep ... 949, 6767,		..... 7278, 8108		\pgf@shift@baseline
6768, 7977, 7978,		\pbs ..... 17703, 17721		..... 17810
8016, 8043, 23784		\pdfencryptsetup ..		\pgf@trimleft .... 17812
\parshape ..... 9344,		... 3729, 3730, 3838		\pgf@trimleft@final
13952, 13960,		\pdflastxpos ... 5026,		. 17814, 17815, 17817
15567, 17645,		5054, 5134, 5171		\pgf@trimright ... 17819
17665, 17860,		\pdflastypos ... 5080,		\pgf@trimright@final
18025, 18027,		5108, 5137, 5174		. 17821, 17822, 17824
18784, 18827,		\pdfm@box .... 15295,		



<code>\pgf@x</code> . . . . . 17813, 17817, 17820, 17824	<code>\phantom</code> . . . 16438, 17284	<code>\poem@write@aux</code> . . . . . . 8560, 8612, 8624
<code>\pgf@y</code> . . . . . 17810	<code>\phantomsection</code> . . . 4563	<code>\poemblocksep</code> . . . . . . . . 8431, 8535, 8635
<code>\pgfdeclarehorizontalshading</code> . . . . . 3241	<code>\phonesymbol</code> . . . . . . . . 4483, 10165, 10263	<code>\poemcolsepskip</code> 8422, 8451
<code>\pgfmathsetmacro</code> . . 2942	<code>\photo</code> . . . . . 4528	<code>\poemextrabaseskip</code> . . . 8424, 8512, 8547
<code>\pgfpathcircle</code> . . . 1533	<code>\picbox</code> . . . . . 17965	<code>\poemmarginskip</code> . . . . . . 8423, 8445, 8446
<code>\pgfpathcurveto</code> . . . 1800	<code>\picinwindow</code> . . . . . 9625	<code>\poemskip</code> 8425, 8525, 8556
<code>\pgfpathlineto</code> . . . . . . . 1799, 1806, 1807	<code>\picwd</code> . . . . . 17853, 17856, 17964, 17966	<code>\postbibhook</code> . . . . . 16983
<code>\pgfpathqcurveto</code> . . 1798	<code>\place@tag</code> . . 338, 339, 341	<code>\postCutedStrip</code> . . 10017
<code>\pgfpathqmoveto</code> . . . 1797	<code>\plainauthor</code> . . . . . . . . 7085, 8128, 8130, 8169, 8170, 8173	<code>\postdisplaypenalty</code> . . . . . 13195, 13209
<code>\pgfpathrectangle</code> . . . . . 1820, 3283, 3289, 3324, 3382, 3408, 3476	<code>\plainfootnotes</code> . . 11325	<code>\postmath</code> . . . . . 9338
<code>\pgfpic</code> . . . . . 17840	<code>\plainpublisher</code> . . . . . . . 8131, 8196, 8197	<code>\PotEndMark</code> . . . . . . . . 10635, 10640, 10643
<code>\pgfpicture</code> . . . . . 17781	<code>\plaintitle</code> 7086, 7087, 8128, 8129, 8152, 8153, 8156, 8324, 8326	<code>\preCutedStrip</code> 9993, 10005
<code>\pgfpictureid</code> 17786, 17797	<code>\plitemsep</code> . . . . . 8017	<code>\predisplaydirection</code> . . . . . 18073, 18074, 24419, 24420
<code>\pgfpicturetrue</code> . . . . . . . . 1828, 17784	<code>\plparsep</code> . . . . . 8016	<code>\predisplaypenalty</code> . . . . . 13194, 13208
<code>\pgfpoint</code> . 1533, 1799, 1801, 1802, 1803, 1806, 1807, 1820, 1822, 3283, 3289, 3324, 3382, 3408, 3476	<code>\plpartopsep</code> . . . . . 8019	<code>\premath</code> . . . . . 9334
<code>\pgfpointorigin</code> . . . 3289	<code>\pLRE</code> 3671, 3672, 3956, 3957	<code>\prepare@bidi@copyins</code> . . . . . 13969, 14002, 14051, 14209
<code>\pgfsetcolor</code> . . . . . 1828	<code>\PLS@Rotate</code> . . . . . . . . 17725, 17727, 17729	<code>\prepare@multicols</code> 17422
<code>\pgfsetfading</code> . . 3284, 3325, 3383, 3409, 3477	<code>\pltopsep</code> . . . . . 8018	<code>\preparefootins</code> . . . . . . . . . 14001, 14050
<code>\pgfsetfillcolor</code> . . . . . . . 3282, 3320, 3322, 3381, 3407, 3475	<code>\poem@finish</code> . . . . . . . . 8561, 8611, 8618	<code>\PrependToTokenList</code> 5968
<code>\pgfsys@discardpath</code> . . . . . 17833	<code>\poem@line</code> 8488, 8494, 8545	<code>\prepnext@tok</code> . . . . . . . . . . 1407, 1417, 1465, 1497, 9412, 9440
<code>\pgfsys@endpicture</code> 17836	<code>\poem@linebegin</code> 8445, 8503	<code>\presetkeys</code> . . . . . 23441
<code>\pgfsys@endscope</code> . 17835	<code>\poem@lineend</code> . 8446, 8509	<code>\prevdepth</code> . . . . . 6947, 6955, 9912, 10361, 10415, 16895, 17286
<code>\pgfsys@markposition</code> . . . . . 17797	<code>\poem@lineparsebegin</code> . . . 8457, 8514, 8541	<code>\pRLE</code> 3673, 3674, 3958, 3959
<code>\pgfsys@shadingoutside</code> 17845	<code>\poem@lineparseend</code> . . . 8483, 8495, 8552	<code>\process@cols</code> . 17262, 17295, 17309, 17315
<code>\pgfsys@typesetpicturebox</code> . . . . . 17840	<code>\poem@lineversesep</code> . . . . . 8447, 8506	<code>\ProcessOptions</code> . . . . 4435, 6743, 7834, 8093, 8125, 8266, 8290, 10088, 10186
<code>\pgftext</code> . . . . . 1535, 1689, 1690, 1822, 3291	<code>\poem@needrun</code> . . 8439, 8558, 8613, 8615	<code>\ProcessOptionsX</code> . . 3836
<code>\pgftransformshift</code> 1822	<code>\poem@obeylines</code> 8540, 8609, 8649, 8673	<code>\protect</code> . . . . . 400, 3671, 3672, 3673, 3674, 3899, 3956, 3957, 3958, 3959, 4215, 4221, 4227, 4233, 4242, 4248, 5289, 5290, 5926, 5932, 6633, 7046,
<code>\pgfusepath</code> 1534, 1808, 1821, 3285, 3290, 3326, 3384, 3410, 3478	<code>\poem@prop</code> . . . 8521, 8623	
<code>\pgfuseshading</code> . 1822, 3248, 3250, 3314, 3357, 3402, 3453, 3560	<code>\poem@startedfalse</code> . . . 8538, 8647, 8653	
<code>\pgfutil@gobble</code> . . 17787	<code>\poem@startedtrue</code> . . . . . . 8496, 8497, 8537, 8639, 8641, 8646, 8654, 8656	
<code>\pgfutil@ifnextchar</code> . . . . . 17794	<code>\poem@verse</code> . . . . . . . . 8434, 8504, 8507	
	<code>\poem@width</code> . . . . . 8437, 8438, 8442, 8519, 8521, 8524, 8557	



13284, 13695,	12725, 12739,	10561, 10564,
13709, 15683,	12753, 13566,	10625, 10787,
15688, 16049,	13583, 13599,	10960, 11134,
16969, 21674,	13627, 13641, 13655	11167, 12891,
21675, 21679,	\protected@write 3797,	13067, 13096,
21687, 21956,	3801, 6613, 6624	13112, 13189,
22300, 23621, 24323	\protected@xdef ...	13219, 13228,
\protected 3956, 3958,	.... 2261, 2287,	13233, 13383,
5014, 5015, 5016,	2313, 7708, 7737,	13723, 13790,
5237, 5245, 5247,	7766, 8149, 8166,	13967, 14210,
5253, 5439, 5455,	8182, 8193, 13531,	14337, 14379,
5471, 5494, 5496,	13540, 13694,	14680, 15324,
5549, 5604, 5619,	13699, 13708,	15410, 15414,
17989, 17999,	13714, 14863,	15436, 15573,
18009, 18017,	14901, 14934,	15612, 15716,
23529, 23638,	14965, 14996, 15059	16010, 16136,
23648, 23658, 23667	\providecommand ...	16162, 16170,
\protected@edef . 43,	4480, 4481, 4482,	16827, 16984,
57, 73, 246, 260,	4483, 4484, 4485,	17222, 17260,
275, 2150, 2167,	4496, 4497, 4498,	17493, 17560,
2184, 2200, 2216,	4499, 4500, 4501,	17588, 17626,
2232, 7645, 7663,	4502, 4503, 4504,	17647, 17667,
7681, 11241,	4505, 4506, 4507,	17701, 17724,
11255, 11269,	4508, 4509, 4510,	17732, 17780,
11281, 11292,	4511, 4720, 7606,	17844, 17850,
11303, 11532,	7613, 7614, 8023,	18078, 18119,
11542, 11552,	10149, 10154,	18135, 18235,
11578, 11591,	13417, 22989,	18490, 18767,
11603, 11641,	22993, 22998,	18949, 19152,
11650, 11659,	23002, 23027,	19281, 20020,
11684, 11696,	23031, 23036, 23040	20793, 21558,
11707, 11744,	\ProvidesClass ....	21565, 21625,
11754, 11764,	... 4402, 8260, 8284	21651, 21656,
11790, 11803,	\ProvidesExplPackage	21690, 21765,
11815, 11853,	..... 16245	21795, 21814,
11863, 11873,	\ProvidesFile . 1, 131,	21834, 21863,
11899, 11912,	165, 196, 326, 344,	21912, 21993,
11924, 11962,	349, 351, 410, 605,	22301, 23071,
11972, 11982,	854, 1106, 1366,	23317, 23446,
12008, 12021,	1501, 1519, 1748,	23522, 23626, 24606
12033, 12071,	1844, 1928, 2326,	\ProvidesPackage ..
12081, 12091,	2412, 2465, 2469,	3572, 4021, 4077,
12117, 12130,	2609, 2612, 2679,	4210, 4651, 4719,
12142, 12180,	2774, 2899, 2903,	6714, 7280, 7822,
12190, 12200,	2908, 2920, 2992,	7968, 8084, 8111,
12226, 12239,	3046, 3069, 3097,	8349, 10075, 10173
12251, 12289,	3217, 3240, 3307,	\prune ..... 17870,
12299, 12309,	3395, 3490, 3549,	17908, 17912,
12335, 12348,	3559, 8701, 8878,	17917, 17921,
12360, 12398,	9055, 9088, 9301,	17933, 17944, 17971
12408, 12418,	9356, 9398, 9400,	\prw@mkboth ... 21962,
12444, 12457,	9403, 9441, 9484,	21967, 21979, 21984
12469, 12664,	9499, 9595, 9633,	\ps@empty ..... 2072
12676, 12688,	10277, 10442,	\ps@navigation .... 1968



\psgrid .....	18082	8324, 8325, 8326,	20475, 20477,
\pspicture .....	18079	8431, 23751, 23760	21149, 21238,
\psset .....	18117	\quote .....	21239, 21240,
\pst@dima .....	18094	\quotecolour .....	21242, 23886,
\pst@dimb 18092, 18097,		. 4491, 10093, 10191	23888, 23890, 23891
18099, 18104, 18107		\quote font ....	\RaggedLeftLeftskip
\pst@dimc .....	18110	4500,	..... 18154
\pst@dimd ....	18091,	4508, 10133, 10226	\RaggedLeftParfillskip
18097, 18098,		\quotestyle .....	..... 18157
18099, 18100,		. 4508, 10146, 10275	\RaggedLeftParindent
18104, 18105,		\quotewidth ....	..... 18158
18106, 18107, 18108		4542, 10146, 10275	\RaggedLeftRightskip
\pst@hbox ....	18087,		..... 18155
18091, 18092,		<b>R</b>	\raggedpart .....
18093, 18109,		\R@@page .....	19637
18111, 18112, 18114		19157,	\RaggedRight ..
\pst@ifstar .....	18079	19158, 19167,	18162,
\pst@killglue ....	18083	19169, 19200,	18200, 18215,
\pst@picture .....	18079	19201, 19212, 19214	18220, 18232,
\pst@shift .....		\raggedbottom .....	18234, 21563,
. 18084, 18106, 18114		4478	21564, 24537,
\pst@tempa .	18096, 18098	\raggedcaption ....	24541, 24547, 24551
\publisher ...	8186, 8187	. 19815, 20576, 21341	\raggedright ....
\publishers .....		\raggeddictum .....	25,
. 19628, 20368, 21141		. 19712, 20473, 21238	104, 224, 557,
\put ..	9504, 9505, 9506,	\raggeddictumauthor	1506, 1514, 1725,
9507, 9508, 9509,		. 19714, 20475, 21240	1734, 1743, 2534,
9514, 9515, 9516,		\raggeddictumtext .	2647, 2890, 9058,
9517, 9518, 9519,		. 19713, 20474, 21239	9078, 9253, 9267,
9527, 9528, 9529,		\raggedfootnote ...	10822, 10835,
9530, 9531, 9532,		. 19303, 20042, 20815	11085, 11100,
9537, 9538, 9539,		\RaggedLeft ...	11137, 11140,
9540, 9541, 9542,		18149,	11145, 11153,
9550, 9551, 9552,		18198, 18214,	12924, 12936,
9553, 9554, 9555,		18218, 18231,	15347, 15367,
9560, 9561, 9562,		18233, 21563,	15417, 15420,
9563, 9564, 9565,		21564, 24537,	15425, 16866,
9573, 9574, 9575,		24541, 24545, 24553	16867, 18122,
9576, 9577, 9578,		\raggedleft .....	18124, 18130,
9583, 9584, 9585,		25,	19113, 19125,
9586, 9587, 9588,		104, 224, 557,	19636, 19637,
10566, 10590,		1504, 1512, 2527,	19712, 19713,
10620, 17680,		2649, 2884, 9058,	19714, 19716,
17682, 17695, 17698		9253, 9267, 10822,	20376, 20473,
		10835, 11085,	20474, 20475,
		11100, 11137,	20477, 21149,
		11140, 11145,	21238, 21239,
		11153, 12924,	21240, 21242,
		12936, 15347,	22635, 22638,
		15367, 15417,	22642, 22753,
		15420, 15425,	23882, 23887,
		16866, 16867,	23889, 23890, 23891
		18122, 18124,	\RaggedRightLeftskip
		18130, 19113,	..... 18167
		19125, 19636,	\RaggedRightParfillskip
		19637, 19712,	..... 18170
		19713, 19714,	\RaggedRightParindent
		19716, 20376,	
		20473, 20474,	

## Q

\Q .....	7463, 7485
\q 16333, 16336, 16565, 16619	
\qauthor .....	18120
\qqquad .....	7899,
7906, 7913, 7920,	
7927, 7962, 18122	
\quad .....	3716, 3990,
7085, 7086, 7087,	



..... 6773, 7444, 8003, 18171	16288, 16324, 16329, 16331, 16375, 16376, 16388	3782, 3788, 3795, 3804, 3805, 3809, 3816, 3826, 3899, 3932, 4064, 4065, 4066, 4071, 4072, 4073, 4074, 4298, 4306, 4314, 4365, 4435, 4694, 4699, 4705, 4720, 4918, 4921, 4931, 4949, 5009, 5210, 5214, 5224, 5231, 5244, 5428, 5432, 5766, 5767, 5771, 5810, 5811, 5853, 5876, 6003, 6017, 6080, 6082, 6091, 6092, 6108, 6116, 6133, 6144, 6149, 6198, 6222, 6237, 6254, 6269, 6285, 6302, 6314, 6346, 6357, 6436, 6644, 6645, 6654, 6682, 6747, 7245, 7454, 7562, 7625, 7629, 7633, 7713, 7724, 7742, 7753, 7771, 7782, 7840, 8037, 8045, 8050, 8081, 8266, 8290, 8386, 8391, 8394, 8401, 8439, 8445, 8540, 8558, 8587, 8594, 8601, 8613, 8649, 8713, 8720, 8732, 8738, 8754, 8810, 8826, 8827, 8828, 8832, 8841, 8850, 8867, 8868, 8873, 8874, 8875, 8876, 8890, 8897, 8909, 8915, 8931, 8963, 9003, 9004, 9005, 9009, 9018, 9027, 9044, 9045, 9050, 9051, 9052, 9053, 9101, 9108, 9109, 9110, 9131, 9132, 9133, 9134, 9139, 9140, 9141, 9142, 9166, 9167, 9168, 9169, 9170, 9175, 9176, 9177, 9178, 9202,
\RaggedRightRightskip ..... 8000, 18168	\reinsert@footnotes ..... 17423, 17425, 17453, 17455, 17460, 17462, 17467, 17469	
\raggedsection .... . 19636, 20376, 21149	\relax ..... 2, 8, 10, 12, 14, 28, 85, 103, 132, 166, 197, 203, 205, 207, 209, 223, 232, 288, 301, 319, 400, 414, 415, 416, 437, 438, 439, 440, 445, 446, 447, 448, 472, 473, 474, 475, 476, 481, 482, 483, 484, 508, 602, 617, 624, 654, 660, 678, 731, 738, 739, 740, 744, 753, 762, 779, 780, 785, 786, 787, 788, 791, 794, 798, 823, 824, 825, 830, 831, 832, 833, 866, 882, 904, 922, 931, 965, 990, 991, 992, 996, 1005, 1014, 1031, 1032, 1037, 1038, 1039, 1040, 1043, 1046, 1050, 1075, 1076, 1077, 1082, 1083, 1084, 1085, 1118, 1125, 1137, 1143, 1161, 1211, 1240, 1241, 1242, 1246, 1255, 1264, 1281, 1282, 1287, 1288, 1289, 1290, 1293, 1296, 1300, 1325, 1326, 1327, 1332, 1333, 1334, 1335, 1422, 1423, 1440, 1441, 1442, 1750, 1921, 2266, 2292, 2318, 2348, 2417, 2420, 2422, 2423, 2424, 2571, 2586, 2601, 2845, 2847, 2851, 2853, 3734, 3740, 3746, 3752, 3758, 3764, 3776,	
\raise .... 1704, 1783, 2083, 2431, 2511, 2512, 2513, 3517, 3536, 13090, 15362		
\raisebox ..... 6998, 7003, 7014, 7015, 7018, 7019, 10633, 10638, 10654, 10657, 10773, 14502, 14504, 14508, 14510, 14537, 14538, 14541, 14542, 14599, 14600, 14603, 14604, 14632, 14634, 14638, 14640, 15568		
\rangle ..... 4124		
\ratio ..... 2813, 3050		
\rawtext ..... 17860, 17866, 17888, 17889, 17970, 17974		
\rbrace .... 23740, 23749		
\rcb . 4125, 4128, 4129, 4133		
\rcol@footinsskip . ..... 13982, 14031		
\realfootnote .... 15056		
\recomputelengths . ..... 4541, 4558		
\recomputethemelengths ..... 4540, 4556, 10238, 10243		
\reflectbox ..... 14271		
\refname ... 570, 571, 705, 706, 968, 969, 1218, 1219, 4627, 8058, 10843, 10844		
\refstepcounter 552, 10817, 13210, 13728, 13734, 15233, 15671, 15677, 16012, 16960, 17636, 17657, 19723, 20484, 21249, 21953		
\regex ..... 16273, 16278, 16281, 16284, 16287,		



9344, 9358, 9359,	12893,	12971,	17248,	17250,
9360, 9365, 9366,	12972,	12973,	17251,	17254,
9367, 9368, 9371,	12992,	12993,	17347,	17392,
9375, 9376, 9377,	12998,	12999,	17686,	17687,
9378, 9379, 9380,	13000,	13001,	17688,	17736,
9480, 9498, 9648,	13025,	13026,	17741,	17746,
9711, 9842, 9844,	13027,	13032,	17755,	17763,
9879, 9905, 9935,	13033,	13034,	17785,	17788,
10088, 10186,	13035,	13072,	17789,	17790,
10278, 10279,	13074,	13078,	17791,	17800,
10280, 10281,	13125,	13161,	17802,	17803,
10282, 10294,	13190,	13200,	17804,	17805,
10315, 10369,	13243,	13263,	17980,	18044,
10381, 10384,	13264,	13279,	18134,	18205,
10421, 10433,	13381,	13513,	18211,	18223,
10436, 10597,	13535,	13544,	18247,	18254,
10615, 10676,	13703,	13718,	18284,	18290,
10755, 10803,	13823,	13845,	18306,	18338,
10871, 10872,	13883,	13994,	18374,	18375,
10873, 10892,	14043,	14442,	18376,	18380,
10893, 10898,	14444,	14447,	18389,	18398,
10899, 10900,	14460,	14462,	18415,	18416,
10901, 10925,	14465,	14711,	18421,	18422,
10926, 10927,	14722,	14733,	18423,	18424,
10932, 10933,	14744,	14758,	18427,	18430,
10934, 10935,	14769,	14780,	18434,	18459,
10964, 10965,	14791,	14806,	18460,	18461,
10966, 10987,	14821,	14862,	18466,	18467,
10988, 10989,	14881,	14900,	18468,	18469,
10990, 10995,	14919,	14933,	18502,	18511,
10996, 10997,	14952,	14964,	18512,	18513,
10998, 11022,	14983,	14995,	18519,	18528,
11023, 11024,	15014,	15096,	18537,	18554,
11025, 11026,	15130,	15161,	18555,	18556,
11031, 11032,	15190,	15327,	18557,	18562,
11033, 11034,	15346,	15356,	18563,	18564,
11058, 11204,	15368,	15374,	18565,	18568,
11205, 11206,	15376,	15378,	18571,	18575,
11207, 11208,	15380,	15465,	18600,	18601,
11337, 11517,	15477,	15484,	18602,	18603,
11561, 11626,	15485,	15489,	18604,	18609,
11667, 11729,	15490,	15499,	18610,	18611,
11773, 11838,	15567,	16049,	18612,	18656,
11882, 11947,	16209,	16212,	18662,	18678,
11991, 12056,	16215,	16216,	18704,	18761,
12100, 12165,	16217,	16223,	18766,	18771,
12209, 12274,	16830,	16831,	18772,	18773,
12318, 12383,	16832,	16833,	18804,	18805,
12427, 12501,	16834,	16894,	18806,	18807,
12532, 12542,	16998,	17098,	18812,	18813,
12548, 12571,	17224,	17226,	18814,	18815,
12600, 12606,	17227,	17230,	18844,	18845,
12633, 12651,	17236,	17238,	18846,	18847,
12887, 12888,	17239,	17242,	18848,	18853,



18854,	18855,	20371,	20372,	22540,	22569,
18856,	18878,	20374,	20412,	22581,	22593,
18962,	18968,	20699,	20716,	22598,	22601,
18969,	18970,	20812,	20825,	22605,	22607,
18991,	18992,	20827,	20833,	22621,	22623,
18993,	18994,	20880,	20881,	22631,	22649,
18999,	19000,	20887,	20888,	22653,	22665,
19001,	19002,	20890,	20893,	22666,	22668,
19026,	19027,	20913,	20916,	22674,	22682,
19028,	19029,	20917,	20918,	22684,	22756,
19030,	19035,	20920,	20922,	22770,	22804,
19036,	19037,	20933,	20936,	22811,	22817,
19038,	19062,	20937,	20938,	22904,	22963,
19300,	19313,	20994,	21035,	22966,	22970,
19315,	19321,	21041,	21062,	22976,	23021,
19367,	19368,	21117,	21118,	23086,	23094,
19374,	19375,	21119,	21120,	23095,	23097,
19377,	19380,	21121,	21122,	23098,	23111,
19400,	19403,	21136,	21137,	23122,	23126,
19404,	19405,	21138,	21139,	23131,	23136,
19407,	19409,	21140,	21141,	23144,	23148,
19420,	19423,	21142,	21143,	23157,	23158,
19424,	19425,	21144,	21145,	23169,	23177,
19481,	19522,	21147,	21177,	23188,	23194,
19528,	19549,	21464,	21481,	23198,	23202,
19604,	19605,	21572,	21609,	23219,	23223,
19606,	19607,	21672,	21687,	23272,	23273,
19608,	19609,	21697,	21699,	23276,	23324,
19623,	19624,	21728,	21886,	23332,	23473,
19625,	19626,	21904,	21905,	23556,	23605,
19627,	19628,	21989,	21998,	23620,	23713,
19629,	19630,	22016,	22019,	23770,	23782,
19631,	19632,	22022,	22047,	23833,	23913,
19634,	19652,	22050,	22053,	23916,	23918,
19937,	19953,	22070,	22073,	23970,	23971,
20039,	20052,	22076,	22087,	23974,	23994,
20054,	20060,	22090,	22093,	24003,	24007,
20107,	20108,	22104,	22107,	24042,	24089,
20114,	20115,	22110,	22119,	24426,	24428
20117,	20120,	22121,	22124,	\remainx . . . . .	17496
20140,	20143,	22127,	22136,	\remainxox .	17531, 17538
20144,	20145,	22138,	22141,	\remainxoxx . . . . .	
20147,	20149,	22144,	22155,	. 17541, 17550, 17559	
20160,	20163,	22158,	22161,	\remainxxx ..	17499, 17501
20164,	20165,	22173,	22176,	\remainxxx . . . . .	
20221,	20262,	22179,	22192,	.. 17504, 17506,	
20268,	20289,	22195,	22198,	17508, 17533, 17536	
20344,	20345,	22212,	22215,	\remainxxxx . . .	17511,
20346,	20347,	22218,	22230,	17513,	17515,
20348,	20349,	22245,	22247,	17517,	17543,
20363,	20364,	22250,	22253,	17545,	17548,
20365,	20366,	22267,	22297,	17552, 17555, 17557	
20367,	20368,	22298,	22299,	\remainxxxxx . . . . .	
20369,	20370,	22428,	22452,	.. 17520, 17522,	



17524, 17526, 17528	8139, 8140, 8142,	10962, 11001,
\remove@strip . 17006,	8146, 8147, 8148,	11003, 11057,
17036, 17106, 17136	8152, 8153, 8159,	11071, 11073,
\renewcommand . . . 19,	8163, 8164, 8165,	11075, 11077,
20, 21, 22, 86, 168,	8169, 8170, 8175,	11078, 11079,
214, 215, 216, 217,	8179, 8180, 8181,	11080, 11081,
289, 329, 412, 451,	8190, 8191, 8192,	11082, 11106,
453, 507, 524, 538,	8196, 8197, 8219,	11125, 11135,
542, 546, 547, 548,	8243, 8305, 8318,	11148, 11159,
549, 581, 621, 643,	8323, 8331, 8717,	11163, 11233,
659, 677, 685, 698,	8721, 8737, 8753,	11247, 11261,
700, 701, 702, 703,	8761, 8775, 8795,	11275, 11286,
716, 722, 728, 734,	8801, 8807, 8812,	11297, 12892,
735, 745, 802, 804,	8813, 8814, 8815,	12907, 12942,
870, 887, 900, 903,	8816, 8817, 8819,	12946, 12962,
921, 928, 954, 955,	8821, 8823, 8833,	12969, 13004,
956, 957, 958, 963,	8894, 8898, 8914,	13006, 13056,
979, 986, 987, 997,	8930, 8938, 8952,	13057, 13058,
1054, 1056, 1122,	8954, 8960, 8983,	13059, 13060,
1126, 1142, 1160,	8989, 8990, 8991,	13061, 13063,
1169, 1182, 1202,	8992, 8993, 8994,	13065, 13190,
1208, 1213, 1214,	8996, 8998, 9000,	13200, 13220,
1215, 1216, 1229,	9010, 9106, 9145,	13229, 13334,
1236, 1237, 1247,	9147, 9201, 9216,	13353, 13355,
1304, 1306, 1510,	9231, 9235, 9239,	13357, 13359,
1749, 1929, 2093,	9241, 9243, 9245,	13360, 13361,
2140, 2157, 2174,	9246, 9247, 9248,	13362, 13363,
2191, 2207, 2223,	9249, 9250, 9273,	13364, 13366,
2247, 2273, 2299,	9292, 9357, 9362,	13368, 13370,
2346, 2400, 2466,	9384, 9391, 9401,	13372, 13373,
2825, 4053, 4055,	9485, 9490, 9500,	13374, 13375,
4427, 4428, 4429,	9523, 9546, 9569,	13376, 13377,
4465, 4466, 4471,	9596, 9612, 10089,	13378, 13388,
4520, 4524, 4555,	10129, 10130,	13457, 13727,
4560, 4641, 6196,	10131, 10132,	13733, 13752,
6220, 6552, 6557,	10133, 10134,	13764, 13776,
6577, 6590, 6612,	10135, 10136,	13791, 14338,
6623, 6751, 6760,	10150, 10155,	14348, 15328,
6801, 6919, 6922,	10187, 10221,	15385, 15386,
6923, 6927, 6928,	10222, 10223,	15387, 15388,
7080, 7081, 7430,	10224, 10225,	15411, 15415,
7431, 7432, 7433,	10226, 10227,	15428, 15432,
7434, 7435, 7436,	10228, 10238,	15441, 15442,
7437, 7438, 7492,	10250, 10438,	15443, 15444,
7607, 7616, 7637,	10439, 10440,	16075, 16828,
7655, 7673, 7788,	10562, 10565,	16839, 16862,
7789, 7790, 7872,	10569, 10595,	16863, 16864,
7881, 7933, 7941,	10760, 10761,	16865, 16866,
7965, 7970, 7981,	10788, 10802,	16867, 16868,
7982, 7983, 7984,	10854, 10860,	16869, 16871,
7985, 7986, 7987,	10864, 10869,	16873, 16875,
8053, 8058, 8060,	10904, 10906,	16877, 16878,
8061, 8078, 8079,	10956, 10957,	16880, 16881,
8080, 8081, 8138,	10958, 10959,	16888, 16889,



16891,	16897,	19287,	19291,	21240,	21241,
16898,	17494,	19295,	19299,	21244,	21285,
17497,	17502,	19365,	19372,	21302,	21316,
17509,	17518,	19379,	19429,	21322,	21402,
17529,	17534,	19431,	19550,	21425,	21427,
17539,	17546,	19552,	19638,	21448,	21450,
17553,	17570,	19639,	19640,	21452,	21455,
17572,	17589,	19643,	19644,	21461,	21469,
17631,	17652,	19658,	19683,	21471,	21474,
17733,	17742,	19712,	19713,	21480,	21482,
18120,	18123,	19714,	19715,	21559,	21562,
18132,	18136,	19718,	19759,	21835,	21864,
18149,	18162,	19776,	19790,	21870,	21902,
18175,	18187,	19796,	19875,	21915,	21929,
18251,	18273,	19898,	19900,	21940,	21996,
18289,	18305,	19921,	19923,	22043,	22062,
18313,	18327,	19925,	19928,	22084,	22101,
18329,	18335,	19934,	19942,	22118,	22135,
18352,	18358,	19944,	19946,	22152,	22170,
18359,	18360,	19952,	19954,	22188,	22189,
18361,	18362,	20026,	20030,	22208,	22209,
18363,	18365,	20034,	20038,	22228,	22296,
18367,	18370,	20105,	20112,	22577,	22642,
18371,	18381,	20119,	20169,	22955,	22957,
18438,	18440,	20171,	20290,	22959,	22975,
18507,	18508,	20292,	20377,	22982,	22984,
18520,	18579,	20378,	20386,	22986,	23006,
18581,	18645,	20387,	20390,	23020,	23025,
18661,	18677,	20391,	20395,	23045,	23048,
18685,	18699,	20398,	20400,	23049,	23063,
18701,	18723,	20419,	20444,	23067,	23072,
18724,	18725,	20473,	20474,	23192,	23299,
18726,	18727,	20475,	20476,	23321,	23339,
18728,	18730,	20479,	20520,	23361,	23373,
18732,	18746,	20537,	20551,	23409,	23888,
18752,	18758,	20557,	20637,	23889,	24120,
18763,	18769,	20660,	20662,	24121,	24122,
18777,	18818,	20683,	20685,	24432,	24475,
18820,	18877,	20687,	20690,	24477,	24478,
18891,	18906,	20696,	20704,	24479,	24534,
18909,	18913,	20706,	20709,	24536,	24538,
18917,	18919,	20715,	20717,	24540,	24544,
18921,	18923,	20799,	20803,	24546,	24550, 24552
18924,	18925,	20807,	20811,	\RenewDocumentCommand	
18926,	18927,	20878,	20885,	. . . . . 16431, 16764	
18940,	18966,	20892,	20942,	\renewenvironment 83,	
19005,	19007,	20944,	21063,	286, 569, 590,	
19061,	19076,	21065,	21150,	606, 626, 633,	
19091,	19095,	21151,	21155,	704, 855, 933,	
19099,	19101,	21156,	21159,	940, 967, 1107,	
19103,	19105,	21160,	21164,	1185, 1192, 1217,	
19106,	19107,	21167,	21169,	1845, 2101, 2387,	
19108,	19109,	21184,	21209,	7022, 7025, 7028,	
19110,	19143,	21238,	21239,	7031, 8029, 8039,	



8047, 8063, 8274,	5276, 5277, 5278,	11970, 11980,
8702, 8777, 8783,	6401, 6409, 6419,	12006, 12018,
8879, 8965, 8971,	6421, 6428, 6430,	12031, 12069,
9089, 9280, 9342,	6435, 6437, 6438,	12079, 12089,
9363, 9497, 10842,	6441, 6444, 6480,	12115, 12127,
11113, 12950,	6481, 6482, 6484,	12140, 12178,
13207, 13808,	6491, 6494, 6519,	12188, 12198,
16979, 17561,	6520, 6540, 6542,	12224, 12236,
17668, 18236,	6546, 6553, 6555,	12249, 12287,
18256, 18263,	6634, 6635, 22586,	12297, 12307,
18340, 18491,	22587, 22588,	12333, 12345,
18706, 18713,	22589, 22590,	12358, 12396,
18734, 18928,	22592, 22593,	12406, 12416,
18950, 19131,	22594, 22596,	12442, 12454,
19647, 20408,	22598, 22601,	12467, 12662,
21173, 21916,	22605, 22638,	12674, 12686,
21919, 21945, 23752	22639, 22642,	12723, 12737,
\renewrobustcmd ...	22643, 23188, 23189	12751, 13295,
. 16200, 16226, 16237	\reserved@b 4324, 4325,	13560, 13561,
\renewtagform .... 16168	4784, 4788, 4789,	13577, 13578,
\repeat ..... 3854,	6391, 6392, 6420,	13593, 13594,
3855, 3856, 6030,	6478, 6480, 6497,	13623, 13624,
6037, 9611, 9887,	6514, 6515, 6520,	13637, 13638,
12512, 12521,	6525, 6527, 6528,	13651, 13652,
15527, 17878,	6530, 6533, 6553, 6555	24215, 24259, 24359
17925, 17936,	\reserved@c .... 6493,	\ResetCounterPerPage
17947, 17975, 21711	6496, 6497, 6501,	..... 3862, 4654
\RequirePackage ...	6512, 6525, 6539, 6543	\resizebox ..... 14292
.... 3623, 3625,	\reserved@d .... 4783,	\restore@protect .. 5291
3626, 3627, 3628,	4788, 6513, 6532, 6545	\restoreCaptionSkip
3629, 3861, 4078,	\reset@dir . 18044, 23713	..... 14473
4079, 4437, 4438,	\reset@font ..... 37,	\restorecounters@ 10687
4439, 4440, 4447,	51, 67, 240, 254,	\restylefloat ..... 7272
4448, 4463, 4516,	269, 2147, 2164,	\resumename ..... 4517
6399, 6400, 6416,	2181, 2196, 2212,	\rightskip ..... 22298
6460, 6461, 6464,	2228, 7325, 7369,	\right 23740, 23749, 23751
6716, 6778, 6780,	7413, 7641, 7642,	\right@cor ... 17008,
6787, 6808, 6812,	7659, 7660, 7677,	17009, 17108, 17109
6848, 6849, 7072,	7678, 11237,	\right@footnoterule
7282, 7283, 7284,	11251, 11265,	... 26, 230, 414,
7285, 7489, 7490,	11279, 11290,	542, 728, 738, 963,
7605, 7824, 7999,	11301, 11530,	990, 1208, 1240,
8010, 8062, 8088,	11540, 11550,	2192, 2208, 8807,
8096, 8113, 8268,	11576, 11588,	8826, 8960, 9003,
8269, 8270, 8271,	11601, 11639,	9108, 9235, 10864,
8272, 8273, 8292,	11648, 11657,	10871, 10964,
8293, 8294, 8295,	11682, 11693,	11163, 12946,
8296, 8297, 24466,	11705, 11742,	12971, 13473,
24469, 24470,	11752, 11762,	13487, 13497,
24471, 24472, 24526	11788, 11800,	13620, 13648,
\RequireXeTeX . 3624, 3940	11813, 11851,	15354, 15432,
\reserved@a 4344, 4348,	11861, 11871,	16146, 16154,
4354, 4357, 4360,	11897, 11909,	17390, 18335,
4363, 4784, 4788,	11922, 11960,	18374, 18511,



18758, 18771,	17243, 17250,	23165, 23212,
18913, 18968,	17255, 18141,	23272, 23277,
19095, 19372,	18143, 18154,	23300, 23307,
19423, 20112,	18156, 18167,	23676, 23677,
20163, 20885, 20936	18169, 18178,	23883, 23910,
\rightfootnoterule	18180, 18254,	23911, 23970, 23975
..... 3769,	18267, 18278,	\RL ... 15223, 18034, 23703
10279, 11205,	18279, 18284,	\rlap 306, 454, 805, 1307,
13485, 14199, 24428	18295, 18318,	4056, 9148, 10907,
\rightline ... 18077,	18321, 18322,	11004, 13007,
23898, 23902, 23904	18650, 18651,	13102, 13108,
\rightlinenumbers .	18656, 18667,	13797, 14230,
..... 15600, 15608	18690, 18693,	14276, 14342,
\rightmargin ... 948,	18694, 18704,	14343, 14356,
8015, 8034, 8042,	18717, 18766,	14357, 15412,
8048, 13945,	18882, 18897,	17284, 18063,
13949, 18130,	18900, 18901,	18441, 18582,
19313, 20052,	18906, 18907,	18779, 18822,
20825, 23775,	19067, 19082,	19008, 19431,
23786, 23792,	19085, 19086,	19552, 20171,
23798, 23806, 23810	19305, 20044,	20292, 20944,
\rightskip ... 12, 13,	20817, 21839,	21065, 21600, 23723
207, 208, 305, 309,	21844, 21855,	\RLE . 3673, 3958, 15222,
513, 530, 533, 534,	21868, 21872,	18034, 18035,
624, 637, 648, 649,	21892, 21895,	18039, 23326,
654, 665, 690, 693,	21900, 21904,	23703, 23704, 23708
694, 875, 876, 882,	21905, 22016,	\rmfamily ..... 734,
892, 895, 896, 909,	22017, 22018,	986, 1236, 7843,
931, 1125, 1131,	22026, 22047,	7896, 7899, 7903,
1132, 1137, 1148,	22048, 22049,	7906, 7910, 7913,
1174, 1177, 1178,	22057, 22070,	7917, 7920, 7924,
1196, 1874, 1875,	22071, 22072,	7927, 18370, 18507
1878, 2472, 2482,	22080, 22087,	\romannumeral .....
2909, 2911, 7953,	22088, 22089,	.... 6076, 6077,
7960, 7961, 8531,	22097, 22104,	8560, 8623, 10695,
8720, 8726, 8727,	22105, 22106,	10698, 10744,
8732, 8743, 8766,	22114, 22121,	13336, 13337,
8769, 8770, 8897,	22122, 22123,	13338, 13339,
8903, 8904, 8909,	22131, 22138,	13341, 13342,
8920, 8943, 8946,	22139, 22140,	13343, 13344,
8947, 9207, 9222,	22148, 22155,	13345, 13348,
9225, 9226, 9358,	22156, 22157,	13349, 13350, 23778
9359, 9360, 9486,	22165, 22173,	\rot@float@box 19160,
9487, 9493, 10794,	22174, 22175,	19161, 19162,
10797, 10798,	22183, 22192,	19176, 19185,
10808, 11062,	22193, 22194,	19203, 19204,
11479, 12804,	22202, 22212,	19205, 19206,
12813, 12898,	22213, 22214,	19207, 19223, 19234
12913, 12916,	22222, 22247,	\rot@label . 19156, 19199
12917, 15378,	22248, 22249,	\rot@LR .... 19167, 19212
15379, 16190,	22257, 22297,	\rot@mess@toks 19159,
16862, 16863,	22299, 23092,	19171, 19181,
17226, 17230,	23154, 23155,	19190, 19202,
17231, 17238,	23156, 23162,	19217, 19229, 19239



\rot@message 19190, 19239	\RTLfootnotetext ..	2220, 2236, 4565,
\rot@pageref 19157, 19200	.... 4282, 4293,	10143, 10776,
\rotate ..... 19253	8573, 8583, 13709,	10780, 10783,
\rotatebox ... 13379,	13712, 14892,	11218, 11224,
14405, 14454,	16104, 21760, 21764	11230, 13571,
14667, 16137,	\RTLfootscript ....	13588, 13604,
16139, 16141,	.. 11341, 11369,	13631, 13645,
16257, 16265,	11373, 11375,	13659, 16438, 18114
16787, 19176,	13779, 13783, 13785	
19185, 19223, 19234	\RTLfoottextfont ..	S
\rotateframe 13341, 13378	..... 11224,	\s ..... 16287, 16288
\rotFPbot .... 19177,	11252, 11302,	\save@dir .. 18043, 23712
19184, 19224, 19233	11420, 11550,	\savebox ..... 10701,
\rotFPtop .... 19175,	11571, 11601,	14402, 14404, 14484
19186, 19222, 19235	11657, 11677,	\saveCaptionSkip . 14434
\rrb ..... 4127, 4137	11705, 11762,	\savecounters@ ... 10684
\rsb ..... 4126, 4135	11783, 11813,	\saved@dir ... 18043,
\RTL .. 18027, 23688, 23690	11871, 11892,	18044, 23712, 23713
\RTL@column@boxes .	11922, 11980,	\saved@tempdimb ...
. 17308, 17335, 17340	12001, 12031,	... 9809, 9892, 9901
\RTL@outputdblcol .	12089, 12110,	\sbox ..... 10767,
... 9635, 13113,	12140, 12198,	14436, 14453,
14026, 16985,	12219, 12249,	15454, 15462,
24029, 24120, 24121	12307, 12328,	15507, 15653,
\RTLbidituftesidenotemarginpar	12358, 12416,	16066, 16256,
... 7374, 7674, 7815	12437, 12467,	16264, 16456,
\RTLcases .. 23750, 23753	12686, 12706, 12751	16743, 16782,
\RTLcite .....	\RTLmarginnote .... 7812	16787, 16899,
7601, 7721, 7750,	\RTLmarginpar .... 24220	16914, 16946,
7779, 7801, 7810, 7819	\RTLMulticolcolumns	17669, 21854,
\RTLcolumnfootnotes	..... 17333	21871, 22663, 24409
..... 11326	\RTLSidenote .. 7544, 7786	\SC@FLOAT 21559, 24534,
\RTLdblcol ..... 24121	\RTLthanks . 419, 439,	24538, 24544,
\RTLdfnmakecol ... 10439	474, 493, 8140,	24546, 24550, 24552
\RTLfootfootmark ..	8148, 8165, 8181,	\SC@justify@caption
.. 11223, 11366,	8192, 9113, 9133,	.. 21562, 24536,
11571, 11677,	9168, 9187, 10969,	24540, 24545,
11783, 11892,	10989, 11024,	24547, 24551, 24553
12001, 12110,	11043, 13707,	\sc@wm@text ..... 10563
12219, 12328,	16832, 18516,	\scalebox ..... 14290
12437, 12706, 13776	18556, 18602,	\scantokens ... 5427, 5447
\RTLfootmarkstyle .	18622, 18776,	\scr@makesinglelinecaption
..... 11341, 11380	18806, 18846,	.. 19747, 19767,
\RTLfootnote ... 419,	18864, 18973,	19790, 20508,
493, 2273, 4214,	18993, 19028,	20528, 20551,
4227, 7790, 8140,	19047, 19428,	21273, 21293, 21316
9113, 9187, 10969,	19607, 20168,	\scr@caption .....
11043, 13530,	20347, 20941, 21120	.. 19901, 19903,
13725, 13733,	\rtside ..... 17908,	19905, 20663,
18516, 18622,	17910, 17921,	20665, 20667,
18776, 18864,	17923, 17944, 17946	21428, 21430, 21432
18973, 19047,	\rule .. 46, 60, 76, 249,	\scr@compatibility
19428, 20168, 20941	263, 278, 2154,	.. 19380, 19481,
	2171, 2188, 2204,	19604, 20120,



20221, 20344,	22808, 22826,	\scshape . . . . . 9061
20893, 20994, 21117	22828, 22839,	\secshape . . 18865, 18906
\scr@dte@current . .	22841, 22857,	\SectFont 629, 638, 936,
. . . . . 22752, 22755	22897, 22898,	944, 1188, 1197,
\scr@dte@def@l@targetocline	22900, 22916,	8780, 8968, 18259,
. . . . . 22463	22969, 22996,	18268, 18709, 18718
\scr@dte@def@l@tocline	23015, 23034, 23050	\sectfont . . . . . 18124
. . . . . 22713	\scr@LT@array . 15232,	\section . . . 570, 598,
\scr@dte@def@l@undottedtocline	19898, 19899,	614, 629, 635, 638,
. . . . . 22302	19911, 20660,	705, 863, 936, 942,
\scr@dte@donumwidth	20661, 20673,	944, 968, 1115,
. . . . . 22982, 22983	21425, 21426, 21438	1188, 1194, 1197,
\scr@dte@largetocline@init	\scr@makemultilinecaption	1218, 4561, 4627,
. . . . . 22464	. . 19749, 19754,	7845, 7867, 7935,
\scr@dte@nosub 22768,	19796, 20510,	7943, 8058, 8061,
22770, 22800,	20515, 20557,	8065, 8780, 8968,
22801, 22803,	21275, 21280, 21322	10843, 18259,
22808, 22810,	\scr@makesinglelinecaption	18265, 18268,
22815, 22816,	. . . . . 19751,	18709, 18715, 18718
22828, 22833,	19759, 20512,	\sectionbib . . . . . 21940
22841, 22846,	20520, 21277, 21285	\sectionfont . . . 4501,
22900, 22902, 23053	\scr@parindent . . . .	4509, 10134, 10227
\scr@dte@numberline@box	. 20013, 20786, 21551	\sectionstyle . 4509, 4567
. . . . . 22661, 22688	\scr@samed@footnotetext	\sectiontitlecolour
\scr@dte@pagenumberwidth	. . . . . 19284,	. . . 4492, 10096,
. . . . . 22699	19288, 20023,	10104, 10111,
\scr@dte@tocline . .	20027, 20796, 20800	10118, 10125,
. . . . . 22577, 23060	\scr@samed@LTrfootnotetext	10195, 10201,
\scr@dte@tocline@init	. . 19282, 19285,	10207, 10213, 10219
. . . . . 22714	19292, 20021,	\selectfont . . . . 347,
\scr@dte@tocline@numberwidth	20024, 20031,	5232, 8206, 8208,
. . . . . 22664,	20794, 20797, 20804	8210, 17682, 17695
22667, 22669, 22672	\scr@samed@RTLfootnotetext	\separatorcolumnwidth
\scr@dte@tocline@numbox	. . 19283, 19286,	. . . . . 4532,
. 22663, 22665, 22679	19296, 20022,	4533, 4544, 4550,
\scr@dte@undottedtocline@init	20025, 20035,	4566, 4571, 4577,
. . . . . 22303	20795, 20798, 20808	4635, 10241, 10271
\scr@endstrut . 19829,	\scr@smashdp . . . . .	\SepMark . . . 23762, 23763
19839, 19850,	. . 19821, 19852,	\seq . . . . . 16519,
19861, 20590,	19855, 20582,	16520, 17713, 17716
20600, 20611,	20613, 20616,	\set@color 9444, 9449,
20622, 21355,	21347, 21378, 21381	9457, 9463, 9471,
21365, 21376, 21387	\scr@trim@spaces . 22588	9478, 9483, 13804,
\scr@ifundefinedorrelax	\scr@tso@figure@pagenumberformat	23525, 23529, 23625
. . 19802, 19815,	. . . . . 23063	\set@split@topskip@to
20563, 20576,	\scr@tso@table@pagenumberformat	. . . . . 9807, 10065
21328, 21341,	. . . . . 23067	\set@typeset@protect
22337, 22385,	\scr@v@is@ge . . . . .	. . . . . 13290,
22430, 22496,	. 19300, 20039, 20812	13294, 21647,
22542, 22569,	\scr@v@is@gt 20379, 20401	23945, 24331, 24333
22590, 22595,	\scr@v@is@le . . 20394,	\SetatBoolean . . . . . 4843
22651, 22766,	20397, 21163, 21166	\setbaselineskip . . 5230
22768, 22797,	\scriptsize . . . . .	\setbeamerfont 1613, 1700
22800, 22801,	. . . 1613, 1700, 7981	



\setbeamersize . . . .	9932, 9952, 9989,	14029,	14036,
. . . 1929, 2681, 3183	10000, 10013,	14037,	14053,
\setbeamertemplate	10063, 10287,	14104,	14116,
. . . . . 2610,	10295, 10296,	14150,	14152,
2613, 2614, 2616,	10300, 10308,	14163,	14188,
2617, 2768, 2769,	10316, 10317,	14213,	14222,
2770, 2775, 2783,	10321, 10336,	14229,	14230,
2811, 2876, 2882,	10339, 10344,	14275,	14276,
2888, 2894, 2896,	10348, 10356,	16045,	16054,
2900, 2901, 2904,	10393, 10396,	16113,	16118,
2905, 2906, 2915,	10401, 10405,	16121,	16130,
3043, 3047, 3065,	10410, 11276,	16176,	16208,
3135, 3303, 3391,	11287, 11298,	16214,	16988,
3486, 3552, 3554, 3565	11390, 11496,	16991, 16992,	
\SetBoolean . . . . . 4827	11501, 11508,	17014,	17019,
\setboolean 6722, 6723,	11573, 11585,	17029,	17047,
6725, 6727, 6732,	11598, 11679,	17052,	17088,
6733, 6737, 6738,	11690, 11702,	17091,	17092,
6809, 6813, 6816,	11785, 11797,	17114,	17119,
6821, 6823, 6827,	11810, 11894,	17129,	17147,
6829, 7207, 7831,	11906, 11919,	17152,	17183,
7832, 7833, 8090,	12003, 12015,	17264,	17280,
8091, 8092, 8117, 8118	12028, 12112,	17852,	17866,
\setbox 387, 1413, 1415,	12124, 12137,	17869,	17888,
1416, 1472, 1768,	12221, 12233,	17889,	17895,
1774, 1783, 1828,	12246, 12330,	17896,	17907,
1829, 1860, 1905,	12342, 12355,	17909,	17911,
1910, 1921, 1971,	12439, 12451,	17913,	17916,
1973, 1975, 1977,	12464, 12486,	17918,	17920,
1982, 1993, 2008,	12487, 12494,	17922,	17932,
2013, 2022, 2037,	12506, 12509,	17934,	17943,
2075, 2077, 2079,	12511, 12515,	17945,	17960,
2081, 2087, 2141,	12518, 12520,	17962,	17970,
2158, 2175, 2193,	12522, 12666,	17972,	17981,
2209, 2225, 3267,	12678, 12690,	18062,	18063,
3515, 3534, 3699,	12708, 12727,	18093,	18111,
3976, 4376, 7253,	12733, 12741,	19245,	19255,
7309, 7312, 7353,	12747, 12755,	19266,	19273,
7356, 7397, 7400,	12765, 12775,	21588,	21636,
8459, 8470, 8676,	12785, 12794,	21677,	21727,
8690, 9316, 9343,	12824, 12832,	21797,	23230,
9348, 9380, 9415,	12847, 12863,	23233,	23238,
9444, 9599, 9600,	12874, 13086,	23242,	23246,
9604, 9607, 9617,	13116, 13119,	23250,	23254,
9621, 9624, 9628,	13132, 13152,	23258,	23262,
9638, 9641, 9642,	13155, 13169,	23266,	23517,
9656, 9673, 9689,	13220, 13260,	23525,	23630,
9701, 9704, 9705,	13265, 13621,	23682,	23692,
9719, 9732, 9748,	13635, 13649,	23722,	23723,
9773, 9774, 9778,	13668, 13859,	23907,	23933,
9810, 9811, 9813,	13868, 13872,	24032,	24035,
9814, 9817, 9818,	13896, 13910,	24036,	24050,
9846, 9852, 9855,	13980, 13987,	24079,	24082,
9863, 9901, 9902,	13988, 14004,	24083,	24097,



24126, 24128,	\setlatin . . . . . 3634	15537, 15540,
24142, 24144,	\setlength . . . . . 511,	16097, 17674,
24155, 24199,	528, 664, 688,	18294, 18316,
24202, 24243,	890, 908, 945,	18666, 18688,
24246, 24274,	946, 947, 948, 949,	18895, 19065,
24288, 24306, 24372	1147, 1172, 2812,	19080, 19332,
\setcaptionfont . . . 6801	2827, 2872, 3049,	20071, 20844,
\setchapterpreamble	4201, 4202, 4203,	21843, 21844,
. . . . . 20413, 21178	4405, 4406, 4408,	21892, 21893,
\setcitationfont . . 7436	4409, 4411, 4412,	21895, 22264,
\setcounter . . . . . 436,	4414, 4415, 4417,	22268, 22269,
471, 746, 778, 822,	4418, 4420, 4421,	22271, 22272,
998, 1030, 1074,	4423, 4424, 4425,	22274, 22275,
1248, 1280, 1324,	4430, 4431, 4469,	22277, 22278,
4063, 7509, 7528,	4470, 4472, 4473,	22280, 22281,
7547, 7579, 7829,	4474, 4475, 4533,	22441, 22553,
8341, 8619, 8834,	4542, 4543, 4546,	22980, 23831, 23834
8866, 9011, 9043,	4548, 4551, 4552,	\setLR . . . . . 18069, 23731
9130, 9165, 10891,	4554, 4557, 4623,	\setLTR . . . . . 18030,
10924, 10986,	4633, 4634, 4635,	18031, 18044,
11021, 12991,	6746, 6773, 6774,	18069, 18070,
13024, 13320,	6775, 6776, 6797,	23699, 23700,
15439, 15440,	6803, 6804, 6837,	23713, 23731, 23732
16860, 17634,	6840, 6844, 6890,	\setLTRbibitems . . 23766
17655, 18382,	6942, 6943, 7444,	\setLTRcitationfont 7437
18414, 18458,	7445, 7446, 7447,	\setLTRmarginnotefont
18521, 18553,	7453, 7695, 7988,	. . . . . 7434
18599, 18803,	7989, 7990, 7991,	\setLTRmarginpar . 24309
18843, 18990,	7992, 7993, 7994,	\setLTRsidenotefont 7431
19025, 19390,	7995, 7997, 7998,	\setLTRtable . . . . . 3640
19603, 19676,	8000, 8003, 8004,	\setmarginnotefont 7433
20130, 20343,	8005, 8006, 8223,	\setnonlatin . . . . . 3635
20437, 20903,	8224, 8742, 8764,	\setparsizes . . . . .
21116, 21202, 22240	8919, 8941, 9205,	. 19447, 20187, 20960
\setdefaultbibitems	9220, 9491, 10230,	\setRL . . . . . 18068, 23730
. . . . . 23767	10234, 10236,	\setRTL . 18029, 18032,
\setdefaultmarginpar	10239, 10647,	18044, 18068,
. . . . . 24310	10792, 10807,	23352, 23392,
\setDefaults . . . . . 14391	11382, 11385,	23426, 23698,
\setfloatalignment 6881	11422, 12897,	23701, 23713, 23730
\setfootnoteLR . . . 13552	12911, 13666,	\setRTLbibitems . . 23765
\setfootnoteRL . . . 13550	14207, 14315,	\setRTLcitationfont 7438
\setkeys . . . . . 1752,	14316, 14322,	\setRTLmain . . . . . 3948
1753, 1847, 1852,	14323, 14325,	\setRTLmarginnotefont
1854, 1856, 1931,	14326, 14395,	. . . . . 7435
2097, 2121, 2122,	14396, 14408,	\setRTLmarginpar . 24308
2256, 2282, 2308,	14412, 14414,	\setRTLsidenotefont 7432
3729, 9307, 9324,	14416, 14420,	\setRTLtable . . . . . 3639
10665, 10671,	14422, 15445,	\setsidenotefont . . 7430
10673, 14221,	15446, 15447,	\setSingleSpace . . .
14265, 14393,	15448, 15487,	. . . . . 11328, 11333
15453, 15491,	15494, 15495,	\setspace@spacespace
17675, 17739,	15496, 15508,	. . . 7640, 7658, 7676
19164, 19209, 23410	15509, 15532,	\setthesection . . . 16877



<code>\settodepth</code> . . . . .	17670	<code>\sidecaptionsep</code>	21560,	8733, 8910, 10132,
<code>\settoheight</code>	10644, 17671		21561, 24535,	10133, 10223,
<code>\settowidth</code> . . . . .	89,		24539, 24544,	10224, 10226,
	292, 575, 710, 973,		24546, 24550, 24552	18285, 18657, 18871
	1223, 2392, 2927,	<code>\sidenote</code> . . . . .	7506,	<code>\small</code> 413, 638, 737, 944,
	2931, 2934, 4537,		7560, 7598, 7693, 7784	989, 1197, 1239,
	8789, 8977, 9286,	<code>\sidenotes</code> . . . . .	7603	4088, 4503, 4593,
	10232, 10689,	<code>\sideways</code> . . . . .	19271	4598, 4628, 7970,
	10848, 11119,	<code>\sixcolumnfootnotes</code>		7971, 8036, 8044,
	12956, 15331,		11940	8049, 8068, 8825,
	15534, 17673,	<code>\sist@on</code> . . . . .	4343, 4365	9002, 9107, 10870,
	18346, 18740,	<code>\size@chapter</code> . . . .	18124	10963, 12970,
	18934, 19137,	<code>\skip</code> . . . . .	3678, 3963,	18268, 18373,
	19669, 19747,		8547, 8548, 10341,	18510, 18718,
	20430, 20508,		10398, 11410,	18770, 18967,
	21195, 21273,		11435, 11443,	19422, 20162, 20935
	21923, 23195, 23197		11451, 11465,	<code>\smallcaps</code> 8324, 8325, 8326
<code>\setupL@lbox</code>	15486, 15493		11481, 11484,	<code>\smallskip</code> . . . . .
<code>\Setversedim</code> . . . . .			11489, 12572,	.. 17496, 17501,
	.. 8354, 8358, 8384		12574, 12576,	17508, 17517,
<code>\SetWatermarkText</code>	10562		12578, 12634,	17528, 17533,
<code>\sevendcolumnfootnotes</code>			12636, 12638,	17538, 17545,
	12049		12640, 12806,	17552, 17559, 18121
<code>\sf@size</code> . . . . .	15362		12815, 12838,	<code>\smallskipamount</code> ..
<code>\sfcode</code>	93, 296, 586, 718,		12851, 13684,	.. 2741, 2753, 2765
	981, 1231, 2406,		13970, 13971,	<code>\smash</code> . . . . .
	8797, 8985, 9297,		13982, 13984,	6998,
	10856, 11130,		14031, 14033,	7003, 7014, 7015,
	12964, 15335,		14087, 14092,	7018, 7019, 7226,
	17575, 18354,		14155, 14166,	10290, 10311,
	18748, 18945,		14173, 14207,	13797, 15568,
	19148, 19686,		17397, 17403,	18066, 23726, 23728
	20447, 21212, 21934		17407, 17412,	<code>\SOUL@apo</code> . . . . .
<code>\sh@wgridXunit</code> ..	18082		17416, 17478,	21582
<code>\sh@wgridYunit</code> ..	18082		17482, 18050,	<code>\SOUL@comma</code> . . . . .
<code>\shadowbox</code> . . . . .	10761		18056, 24131,	21581
<code>\shadowsize</code> ..	10771,		24147, 24158, 24166	<code>\SOUL@do</code> . . . . .
	10775, 10776,	<code>\skip@</code> . . . . .	311, 312	21584
	10779, 10780, 10783	<code>\slideentry</code> . . . . .	2413	<code>\SOUL@eventuallyxexhyphen</code>
<code>\shipout</code> . . . . .	13290,	<code>\sloppy</code> . . . . .	42,	.. 21571
	14127, 14137, 24330		56, 72, 92, 245,	<code>\SOUL@grave</code> . . . . .
<code>\shortauthors</code> . . . .			259, 274, 295, 582,	21583
	.. 115, 116, 121,		717, 980, 1230,	<code>\SOUL@ignorespacesfalse</code>
	15394, 15395, 15400		2402, 4642, 8796,	.. 21575
<code>\shortcite</code> . . . . .	17577		8984, 9293, 10855,	<code>\SOUL@lasttoken</code> ..
<code>\shorttitle</code> . . . . .			11126, 12963,	21578
	.. 114, 115, 121,		13965, 15334,	<code>\SOUL@lowerthan</code> ..
	15393, 15394, 15400		16193, 17574,	21568
<code>\showbox</code> . . . . .	13933		18204, 18353,	<code>\SOUL@minus</code> . . . . .
<code>\showgridp@s</code> . . . . .	18081		18747, 18941,	21580
<code>\showoutput</code> . . . . .	13933		19144, 19685,	<code>\SOUL@postamble</code> ..
<code>\sidebarheight</code> . . . .			20446, 21211, 21930	21585
	.. 1985, 1993,	<code>\slshape</code> . . . . .	655,	<code>\SOUL@preamble</code> ..
	2003, 2016, 2022, 2032		883, 1138, 4589,	21577



\SOUL@ulleaders ...	\splitfirstmark ...	19722, 19723,
. 21597, 21603, 21619	.... 9645, 9708,	20483, 20484,
\SOUL@uloverlap .. 21590	13122, 13158,	21248, 21249, 24402
\SOUL@ulunderline 21587	13869, 13991,	\stopbreaks ..... 11149
\SOUL@word ..... 21579	14040, 16995,	\str .... 16276, 16327,
\soulomit ..... 21570	17095, 24039, 24086	16399, 16417,
\space 3572, 5413, 5559,	\SplitFootnoteRule	16479, 16503,
5673, 5687, 5701,	..... 3771, 13508	16508, 16582,
5711, 6394, 6581,	\splitfootnoterule	16613, 16626,
6583, 6594, 6596,	..... 13512, 13520	16648, 16702, 16734
6599, 7062, 7067,	\splitmaxdepth 40, 54,	\stretch ..... 1474,
7068, 7201, 7202,	70, 243, 257, 272,	1477, 9417, 9420
9061, 9256, 9827,	9639, 9702, 11427,	\string 359, 1384, 3798,
9829, 9851, 9853,	13117, 13153,	3802, 4685, 4721,
11088, 12926,	13564, 13581,	4727, 4799, 4801,
13833, 13841,	13597, 13985,	4819, 4820, 4823,
13842, 13866,	14034, 16989,	4824, 5007, 5026,
13874, 15471,	17089, 24033, 24080	5054, 5080, 5108,
15503, 15504,	\splittopskip ... 40,	5134, 5137, 5171,
16564, 17270,	54, 70, 243, 257,	5174, 5258, 5259,
17272, 17273,	272, 11426, 11498,	5265, 5413, 5443,
17274, 17275,	11502, 11612,	5464, 5467, 5494,
17441, 17448,	11613, 11617,	5496, 5559, 5632,
18089, 19115,	11618, 11715,	5679, 5680, 5693,
19158, 19201,	11716, 11720,	5694, 5705, 5706,
19328, 19501,	11721, 11824,	5717, 5718, 5749,
19508, 19530,	11825, 11829,	5763, 5764, 5765,
19536, 19543,	11830, 11933,	5766, 5770, 6394,
19691, 20067,	11934, 11938,	6403, 6407, 6413,
20241, 20248,	11939, 12042,	6424, 6581, 6583,
20270, 20276,	12043, 12047,	6594, 6596, 6597,
20283, 20452,	12048, 12151,	6598, 6599, 6601,
20840, 21014,	12152, 12156,	7201, 7202, 9453,
21021, 21043,	12157, 12260,	9456, 9474, 9477,
21049, 21056,	12261, 12265,	12527, 12529,
21217, 21747,	12266, 12369,	13837, 13838,
21749, 21806,	12370, 12374,	13839, 13840,
22681, 22683,	12375, 12478,	13841, 13963,
23314, 23997, 24279	12479, 12483,	14297, 14298,
\spacefactor ... 7619,	12484, 13563,	18214, 18215,
7624, 7630, 7633	13580, 13596,	19328, 19501,
\spaceskip . 21615, 21620	13864, 13865, 17862	19502, 19508,
\speci@ls .. 17459, 17466	\stepcounter ... 2260,	19509, 19530,
\special .....	2286, 2312, 5729,	19536, 19537,
3700, 3874, 3883,	5735, 5743, 5749,	19543, 19544,
3977, 4003, 4052,	7517, 7536, 7555,	19691, 19693,
18063, 21803,	7587, 7707, 7736,	19699, 19731,
21804, 21808,	7765, 8517, 13319,	19732, 19740,
21809, 21811, 23723	13390, 13460,	19741, 19804,
\spinemargin .. 10575,	13530, 13539,	19805, 19808,
10577, 10581, 10585	15058, 16012,	19809, 20067,
\split@prev .....	17629, 17633,	20241, 20242,
. 13509, 13517, 13522	17650, 17654,	20248, 20249,
\splitbotmark .... 13870	19155, 19198,	20270, 20276,



20277, 20283,	12328, 12431,	... 4568, 7852, 7868
20284, 20452,	12434, 12437,	\subsectioncolour .
20454, 20460,	12698, 12702,	... 4494, 10097,
20492, 20493,	12706, 16207,	10105, 10112,
20501, 20502,	19791, 19820,	10119, 10126,
20565, 20566,	19832, 19843,	10196, 10202,
20569, 20570,	19852, 20552,	10208, 10214, 10220
20840, 21014,	20581, 20593,	\subsectionfont 4502,
21015, 21021,	20604, 20613,	4510, 10135, 10228
21022, 21043,	21317, 21346,	\subsectionstyle ..
21049, 21050,	21358, 21369,	..... 4510, 4569
21056, 21057,	21378, 21854, 21859	\subsubitem .....
21217, 21219,	\strutbox . 40, 54, 70,	109, 229, 8080, 15352
21225, 21257,	243, 257, 272, 385,	\subsubsection ....
21258, 21266,	389, 2154, 2171,	... 7872, 7873, 7876
21267, 21330,	2188, 2204, 2220,	\subtable ..... 6938
21331, 21334,	2236, 9908, 11219,	\supereject ..... 4017
21335, 21773,	11225, 11231,	\symbol ..... 4131, 4141
23313, 23570,	11427, 11612,	\sys ..... 16497
23617, 23997, 24017	11617, 11715,	
\strip@prefix . 5464, 5477	11720, 11824,	T
\strip@pt ..... 4918,	11829, 11933,	\t@cb@bchapsec ... 21915
5231, 10511,	11938, 12042,	\tabcaption . 14444, 14462
10514, 10519,	12047, 12151,	\tabcolsep 379, 1356,
10522, 12585, 12647	12156, 12260,	16042, 18635, 23737
\stripsep ..... 9690,	12265, 12369,	\tablinesep ..... 21670
9749, 9765, 9772,	12374, 12478,	\tabskip .. 395, 8527,
9992, 10004,	12483, 12567,	16056, 16057,
10018, 17023,	12629, 13564,	21643, 21681, 23940
17025, 17032,	13571, 13581,	\tabular ..... 21742
17123, 17125,	13588, 13597,	\tabularnewline 404,
17132, 17194,	13604, 13631,	16026, 21645, 23942
17197, 17199, 17206	13645, 13659,	\tabularx ..... 21733
\strut . 46, 60, 76, 249,	16031, 16047,	\tabularxcolumn .. 21695
263, 278, 2702,	16084, 16209,	\tagform@ ..... 336
2949, 2953, 2959,	19772, 19774,	\tamark ..... 16843
2962, 2971, 2973,	19868, 19870,	\tcb@icolorbox .. 21831
2978, 2979, 2981,	20533, 20535,	\tcb@vbox ..... 21818
2982, 3124, 3126,	20629, 20631,	\tcd .. 17859, 17866, 17867
3271, 3273, 3367,	21298, 21300,	\tcdsav ..... 17859
3369, 3371, 3462,	21394, 21396,	\tcl .. 17883, 17884, 17890
3464, 3466, 4118,	21637, 21638,	\tcn 17867, 17868, 17890,
11157, 11165,	21673, 23934, 23935	17891, 17892, 17893
11568, 11571,	\subfig@oldlabel ..	\Telefon ..... 4483
11671, 11674,	..... 6932, 6934	\tencolumnfootnotes
11677, 11777,	\subfigure ... 6931, 6938	..... 12376
11780, 11783,	\subitem .....	\TeX .... 15224, 18045,
11886, 11889,	108, 228, 8079, 15351	18046, 18067,
11892, 11995,	\subjclass ..... 324	23714, 23715, 23727
11998, 12001,	\subject .....	\textbf .....
12104, 12107,	. 19627, 20367, 21140	4596, 8025, 13810,
12110, 12213,	\subparagraph .....	13812, 13814, 13816
12216, 12219,	... 7881, 7882, 7885	\textbullet 2894, 4480,
12322, 12325,	\subsection .....	10089, 10153, 10187



<code>\textcolor</code> . . . 10760, 10775, 10779, 10782, 13800, 15475	14346, 14351, 14357, 16181, 17053, 17061, 17153, 17184, 17344, 17379, 17380, 17383, 17384, 17387, 17388, 17392, 17395, 19406, 19416, 19449, 19489, 19493, 20146, 20156, 20189, 20229, 20233, 20919, 20929, 20962, 21002, 21006, 24051, 24059, 24098, 24376, 24392	1075, 1092, 1243, 1255, 1281, 1292, 1293, 1302, 1325, 1343, 4064, 8132, 8133, 8134, 8135, 8138, 8145, 8146, 8162, 8163, 8178, 8179, 8190, 8829, 8841, 8867, 9006, 9018, 9044, 9111, 9131, 9166, 9185, 10874, 10892, 10925, 10942, 10967, 10987, 11022, 11041, 12974, 12992, 13025, 13042, 16830, 18377, 18389, 18415, 18426, 18427, 18436, 18459, 18476, 18514, 18528, 18554, 18567, 18568, 18577, 18600, 18620, 18774, 18804, 18844, 18862, 18971, 18991, 19026, 19045, 19426, 19605, 20166, 20345, 20939, 21118
<code>\textdef</code> . . . . . 345	<code>\textwidth@footnoterule</code> . . . . . 416, 740, 992, 1242, 8828, 9005, 9110, 10873, 10966, 12973, 13479, 13490, 17394, 18376, 18513, 18773, 18970, 19425, 20165, 20938	<code>\thankses</code> . . . . . 323
<code>\textdir</code> . . . . . 16742	<code>\textwidthfootnoterule</code> . . . . . 3773, 10281, 11207, 13488, 14200, 24429	<code>\the</code> . . . . . 124, 125, 1372, 1466, 1467, 1469, 1470, 1937, 1939, 1945, 1947, 2945, 2947, 2948, 2949, 2951, 2952, 2953, 2958, 2959, 2961, 2962, 2968, 2969, 2971, 2973, 2978, 2979, 2981, 2982, 3602, 3711, 3929, 3988, 4028, 4030, 4033, 4035, 4274, 4276, 4279, 4282, 4287, 4290, 4293, 4398, 4734, 4736, 4737, 4758, 4760, 4761, 5428, 5765, 5860, 5915, 5943, 5945, 5952, 5954, 5956, 5958,
<code>\textendash</code> . 743, 995, 1058, 1245, 8831, 9008, 18379, 18518	<code>\TeXeTOff</code> . 17978, 23628 <code>\TeXeTOn</code> . . . . 17977, 17979, 23627, 23629 <code>\TeXeTstate</code> . . 17977, 17978, 23627, 23628 <code>\TF@conlab</code> . . . . . . 13793, 13795, 13802 <code>\TF@savecolor</code> 13799, 13804 <code>\TF@Title</code> . . . . . 13802 <code>\thanklessauthor</code> 8133, 8166, 8169, 8206 <code>\thanklesspublisher</code> . . . . . 8134, 8193, 8196, 8210 <code>\thanklesstitle</code> 8132, 8149, 8152, 8208 <code>\thanks</code> . . . . . 323, 417, 437, 472, 491, 741, 753, 779, 790, 791, 800, 823, 840, 993, 1005, 1031, 1042, 1043, 1052,	
<code>\textheight</code> . . . . 4037, 4444, 9673, 9732, 13973, 14395, 19163, 19208, 19408, 19413, 19414, 19415, 20148, 20153, 20154, 20155, 20921, 20926, 20927, 20928, 24401	<code>\TeXXeTOff</code> . 17978, 23628 <code>\TeXXeTOn</code> . . . . 17977, 17979, 23627, 23629 <code>\TeXXeTstate</code> . . 17977, 17978, 23627, 23628 <code>\TF@conlab</code> . . . . . . 13793, 13795, 13802 <code>\TF@savecolor</code> 13799, 13804 <code>\TF@Title</code> . . . . . 13802 <code>\thanklessauthor</code> 8133, 8166, 8169, 8206 <code>\thanklesspublisher</code> . . . . . 8134, 8193, 8196, 8210 <code>\thanklesstitle</code> 8132, 8149, 8152, 8208 <code>\thanks</code> . . . . . 323, 417, 437, 472, 491, 741, 753, 779, 790, 791, 800, 823, 840, 993, 1005, 1031, 1042, 1043, 1052,	
<code>\textit</code> . . . . . 22300	<code>\textwidth</code> . . . . 1752, 1847, 1904, 1905, 1920, 1921, 1990, 2013, 2020, 2062, 2063, 2064, 2104, 2108, 2112, 2144, 2161, 2178, 2630, 2637, 2654, 2660, 2666, 2813, 2816, 2818, 3263, 3687, 3693, 4036, 4442, 4533, 4542, 4543, 4555, 4557, 6840, 6844, 6943, 7244, 7245, 8385, 9657, 9665, 9720, 9913, 9953, 9963, 10143, 10158, 10230, 10239, 10353, 10574, 10584, 10590, 10620, 11497, 12505, 13132, 13138, 13170, 13260, 13265, 13671, 14005, 14054, 14062, 14343,	
<code>\textsf</code> . . . . . 3715		
<code>\textsl</code> . . 7085, 7086, 7087		
<code>\textsuperscript</code> . . . . . 7632, 11378, 11379, 11380, 19364, 20104, 20877		
<code>\texttt</code> . . . . . 4141, 4205, 4207, 4208, 5752		
<code>\textwidth</code> . . . . 1752, 1847, 1904, 1905, 1920, 1921, 1990, 2013, 2020, 2062, 2063, 2064, 2104, 2108, 2112, 2144, 2161, 2178, 2630, 2637, 2654, 2660, 2666, 2813, 2816, 2818, 3263, 3687, 3693, 4036, 4442, 4533, 4542, 4543, 4555, 4557, 6840, 6844, 6943, 7244, 7245, 8385, 9657, 9665, 9720, 9913, 9953, 9963, 10143, 10158, 10230, 10239, 10353, 10574, 10584, 10590, 10620, 11497, 12505, 13132, 13138, 13170, 13260, 13265, 13671, 14005, 14054, 14062, 14343,		



5959, 5960, 5971,  
5978, 5980, 5985,  
5989, 5990, 5995,  
6000, 6008, 6011,  
6015, 6021, 6105,  
6106, 6107, 6132,  
6647, 6654, 6683,  
7474, 7484, 7619,  
7630, 8436, 8443,  
8567, 8570, 8573,  
8577, 8580, 8583,  
8688, 9303, 9308,  
9352, 9413, 9644,  
9646, 9707, 9709,  
9789, 9809, 9815,  
9819, 9826, 9827,  
9828, 9829, 9830,  
9831, 9851, 9853,  
9862, 9866, 9889,  
9890, 9891, 9893,  
9894, 9895, 9896,  
9929, 9993, 10005,  
10017, 12571,  
12633, 13121,  
13123, 13157,  
13159, 13388,  
13403, 13404,  
13407, 13408,  
13411, 13464,  
13468, 13522,  
13695, 13709,  
13826, 13833,  
13837, 13838,  
13839, 13840,  
13841, 13842,  
13850, 13856,  
13863, 13864,  
13866, 13871,  
13873, 13874,  
13888, 13914,  
13944, 13945,  
13946, 13951,  
13952, 13953,  
13963, 13990,  
13992, 14039,  
14041, 14267,  
14312, 14845,  
14853, 14854,  
14860, 14862,  
14891, 14892,  
14898, 14900,  
14931, 14933,  
14962, 14964,  
14993, 14995,

15403, 15404,  
15501, 15503,  
15547, 15549,  
15554, 15556,  
15562, 15564,  
15569, 16101,  
16104, 16692,  
16994, 16996,  
17007, 17024,  
17031, 17037,  
17094, 17096,  
17107, 17124,  
17131, 17137,  
17207, 17270,  
17272, 17273,  
17274, 17275,  
17276, 17568,  
17738, 17754,  
17758, 17761,  
17786, 17810,  
17817, 17824,  
17984, 17985,  
19171, 19181,  
19190, 19217,  
19229, 19239,  
19396, 19397,  
19398, 19676,  
20136, 20137,  
20138, 20437,  
20909, 20910,  
20911, 21202,  
21666, 21667,  
21697, 21716,  
21718, 21742,  
21747, 21749,  
21750, 21753,  
21754, 21757,  
21760, 21761,  
21764, 21872,  
22609, 22679,  
22682, 22684,  
22770, 23096,  
23099, 23100,  
23102, 23104,  
23108, 23113,  
23117, 23128,  
23129, 23132,  
23138, 23142,  
23150, 23151,  
23188, 23204,  
23208, 23307,  
23470, 23482,  
23487, 23508,  
23509, 23511,

23633, 23634,  
23778, 23835,  
24003, 24005,  
24017, 24038,  
24040, 24085, 24087  
\the@cornersize ...  
..... 13078, 13079  
\thealgocf ..... 168  
\theAlgoLine ..... 24475  
\theBackrefHyperFootnoteCounter  
..... 13729, 13735  
\thechapter .... 308,  
7841, 8812, 8818,  
8820, 8822, 8989,  
8995, 8997, 8999,  
9061, 9240, 9242,  
9244, 9245, 9246,  
9256, 11072,  
11074, 11076,  
11077, 11078,  
11088, 12926,  
13056, 13062,  
13064, 13066,  
13354, 13356,  
13358, 13359,  
13360, 13367,  
13369, 13371,  
13372, 13373,  
15712, 16868,  
16877, 16879,  
16880, 16881,  
17609, 18127,  
18358, 18364,  
18366, 18368,  
18723, 18729,  
18731, 18733,  
18918, 18920,  
18922, 18923,  
19100, 19102,  
19104, 19105,  
19106, 19115,  
20380, 20382,  
20395, 20398,  
20402, 20404,  
21152, 21164,  
21167, 21170, 21956  
\thecontentspage 7899,  
7906, 7913, 7920, 7927  
\thedata . 8128, 8136, 8182  
\theenumiv 86, 89, 289,  
292, 581, 716, 979,  
1229, 2400, 4641,  
8795, 8983, 9292,  
10854, 11125,



12962, 15328,	14723, 14734,	13374, 15385,
15331, 18352,	14864, 14902,	16868, 16870,
18746, 18940,	14935, 14966,	17617, 17619,
19143, 19683,	14997, 15059, 16239	18358, 18359,
20444, 21209, 21929	\thempfootnote . . . .	18723, 18724,
\theequation . . . . .	. . . . . 13673, 16239	18923, 18924,
8817, 8994, 9239,	\theorem@indent 17643,	19106, 19107,
11071, 13061,	17644, 17663, 17664	19639, 20378,
13353, 13366,	\theorem@prework . 17637	20386, 21151, 21155
15413, 16878,	\theorempostskipamount	\thesubparagraph 22,
18363, 18732,	. . . . . 17638, 17658	217, 549, 703,
18917, 19099,	\theorempreskipamount	957, 1216, 8816,
20400, 21169, 24422	. . . . . 17641, 17661	8993, 9250, 10959,
\thefigure . . . . 8819,	\thepage . . . . . 4026,	11082, 13060,
8996, 9241, 11073,	4031, 4618, 6973,	13364, 13377,
13063, 13355,	7085, 7086, 7087,	15388, 16875,
13368, 16880,	7096, 7097, 8312,	18362, 18727,
18365, 18728,	8313, 8324, 8325,	18927, 19110,
18919, 19101,	8326, 10030,	19644, 20391, 21160
20395, 21164, 21653	10048, 17441,	\thesubsection . . 19,
\thefootdir@label .	17448, 23514, 24279	20, 214, 215, 546,
. . 13388, 13391,	\theparagraph . . . 21,	547, 700, 701,
13420, 13425,	22, 216, 217, 548,	954, 955, 1213,
13443, 13446, 13466	549, 702, 703,	1214, 7855, 8813,
\thefootnote 453, 745,	956, 957, 1215,	8814, 8990, 8991,
804, 997, 1056,	1216, 7862, 8815,	9247, 9248, 10956,
1247, 1306, 4055,	8816, 8992, 8993,	10957, 11079,
8833, 9010, 9147,	9249, 9250, 10958,	11080, 13057,
10906, 11003,	10959, 11081,	13058, 13361,
13006, 14745,	11082, 13059,	13362, 13374,
18381, 18440,	13060, 13363,	13375, 15385,
18520, 18581,	13364, 13376,	15386, 16869,
18777, 18820,	13377, 15387,	16872, 18359,
19007, 19429,	15388, 16873,	18360, 18724,
19550, 20169,	16876, 18361,	18725, 18924,
20290, 20942, 21063	18362, 18726,	18925, 19107,
\thefootnotemark . .	18727, 18926,	19108, 19639,
. 19364, 20104, 20877	18927, 19109,	19641, 20386,
\theHchapter . . . . . 17609	19110, 19643,	20388, 21155, 21157
\theHsection 17617, 17619	19645, 20390,	\thesubsubsection 20,
\theindex . 98, 218, 15341	20392, 21159, 21161	21, 215, 216,
\thelstlisting 15683,	\thepart . . . . . 553,	547, 548, 701,
15688, 15711, 15714	561, 10818, 10826	702, 955, 956,
\thempfn . . . . .	\ther@tfl@t . . . 19156,	1214, 1215, 8814,
2250, 2276, 2302,	19157, 19199, 19200	8815, 8991, 8992,
4299, 4307, 4315,	\thesection . . . . . 19,	9248, 9249, 10957,
7708, 7714, 7737,	214, 546, 700,	10958, 11080,
7743, 7766, 7772,	954, 1213, 7848,	11081, 13058,
8588, 8595, 8602,	8812, 8813, 8989,	13059, 13362,
13531, 13536,	8990, 9246, 9247,	13363, 13375,
13540, 13545,	10956, 11078,	13376, 15386,
13673, 13699,	11079, 13056,	15387, 16871,
13704, 13714,	13057, 13360,	16874, 18360,
13719, 14712,	13361, 13373,	18361, 18725,



18726, 18925,	18562, 18609,	16325, 16326,
18926, 19108,	18812, 18853,	16327, 16328,
19109, 19640,	18999, 19035,	16330, 16332,
19643, 20387,	19624, 20364, 21137	16334, 16335,
20390, 21156, 21159	\TitleBarFrame . . . .	16337, 16343,
\thetable . . . . . 8821,	. . . 13791, 13810,	16347, 16350,
8998, 9243, 11075,	13812, 13814, 13816	16351, 16354,
13065, 13357,	\titlecolour . 4489, 10190	16361, 16366,
13370, 16881,	\titlecontents . 7894,	16374, 16377,
18367, 18730,	7901, 7908, 7915, 7922	16378, 16379,
18921, 19103,	\TitleFont . . . . . 734,	16380, 16381,
20398, 21167, 21654	750, 841, 843, 849,	16384, 16390,
\TheTokenList . . . . . 5969	986, 1002, 1093,	16391, 16392,
\thinlines . . . . . 9503,	1095, 1101, 1236,	16397, 16399,
9513, 9526, 9536,	1252, 1344, 1346,	16406, 16410,
9549, 9559, 9572, 9582	1352, 1355, 1356,	16415, 16417,
\thispagestyle . . . .	1361, 8838, 9015,	16419, 16421,
. . . . . 101, 113,	18370, 18386,	16440, 16446,
221, 469, 601, 616,	18477, 18479,	16447, 16448,
820, 865, 1072,	18485, 18507,	16449, 16450,
1117, 1322, 8213,	18525, 18623,	16462, 16465,
8235, 8256, 8712,	18625, 18631,	16468, 16470,
8889, 9100, 9163,	18634, 18635, 18640	16494, 16495,
10922, 11019,	\titlefont . . . . .	16497, 16506,
11136, 11139,	. . . 4498, 4506, 10223	16509, 16510,
13022, 15344,	\titleformat . . . 7838,	16511, 16512,
15392, 15416,	7845, 7852, 7859	16513, 16514,
15419, 16858,	\titlehead . . . . .	16516, 16522,
18246, 18456,	. 19626, 20366, 21139	16527, 16530,
18501, 18597,	\titlepage . . . . . 627,	16531, 16544,
18841, 18961,	934, 1186, 8778,	16546, 16547,
19023, 19599,	8966, 18257, 18707	16548, 16549,
20339, 21112, 21988	\titlepage@restore	16550, 16551,
\thm@topsepadd 17638,	. . . 19394, 19400,	16552, 16561,
17639, 17642,	19420, 19522,	16564, 16568,
17658, 17659, 17662	19549, 20134,	16569, 16570,
\thr@@ . 356, 372, 1381,	20140, 20160,	16573, 16587,
1399, 1423, 1432,	20262, 20289,	16593, 16606,
11716, 11721,	20907, 20913,	16611, 16615,
17432, 17450,	20933, 21035, 21062	16636, 16644,
21573, 21770, 21790	\titlepagestyle . . .	16645, 16670,
\threecolumnfootnotes	. 19599, 20339, 21112	16674, 16675,
. . . . . 11619	\titlespacing . . . . .	16676, 16689,
\tiny . . . . . 4101, 7610, 7982	. . . 7866, 7867, 7868	16761, 16762,
\title . . 320, 445, 481,	\titlestyle . . 4506, 10254	16770, 16771,
785, 830, 1037,	\tl . . . . . 16259, 16267,	16772, 16773,
1082, 1287, 1332,	16272, 16274,	16783, 16784,
4071, 4520, 4559,	16275, 16276,	16785, 16790,
8127, 8142, 8873,	16277, 16279,	16795, 16797,
9050, 9139, 9175,	16280, 16282,	16800, 16801,
10898, 10932,	16285, 16289,	16806, 16807,
10995, 11031,	16298, 16302,	16812, 16824, 16825
12998, 13032,	16305, 16310,	\tmpcount . . . . 6159, 6185
18421, 18466,	16315, 16323,	\toaddress . 11145, 15425



\toc@headstar	21978, 21983	23255, 23259,	14309, 14312,
\tocbasic@DependOnPenaltyAndTOCLevel	22580	23267, 23299	14842, 14845,
\tocbasic@SetPenaltyByTOCLevel	22708	\tocstyle@macrochangewarning	15400, 15404,
\TOCEntryStyleStartInitCode	19920, 19933,	\tocstyle@numberline	16993, 16994,
19951, 20682,	\tocstyle@saved@dottedtocline	16995, 16996,	
20695, 20714,	23289	17093, 17094,	
21447, 21460, 21479	\tocstyle@saved@numberline	17095, 17096,	
\toclevel@subfigure	23297	21716, 21736,	
22190	\tocstyle@depth	21742, 24037,	
\toclevel@subtable	23084,	24038, 24039,	
\TOCLineLeaderFill	23096, 23108,	24040, 24084,	
19937,	23128, 23129,	24085, 24086, 24087	
19953, 20699,	23132, 23150,	\tolerance	.....
20716, 21464,	23151, 23200,	.. 11561, 11667,	
21481, 22730, 23021	23202, 23204, 23208	11773, 11882,	
\tocstyle@@numberline	\tocstyleTOC	11991, 12100,	
23195,	.. 23096, 23099,	12209, 12318, 12427	
23197, 23215,	23100, 23102,	\toname	.... 11145, 15425
23217, 23220, 23222	23104, 23108,	\topheight	.....
\tocstyle@activate@all@l	23109, 23111,	.. 17871, 17873,	
23308	23112, 23116,	17874, 17875,	
\tocstyle@activate@features	23120, 23121,	17877, 17883,	
23085	23124, 23125,	17885, 17887,	
\tocstyle@dottedtocline	23128, 23129,	17888, 17889,	
23072	23132, 23134,	17952, 17953,	
\tocstyle@feature@dothook	23136, 23137,	17954, 17955,	
23171	23141, 23146,	17959, 17960, 17964	
\tocstyle@feature@entryhook	23147, 23150,	\topins	..... 18047
23167	23151, 23200,	\topmargin	.... 4041,
\tocstyle@feature@entryvskip	23202, 23203, 23207	4443, 10616,	
23086, 23089	\today	13304, 19403,	
\tocstyle@feature@leaders	\toks	20143, 20916, 24368	
23169, 23174	122,	\topmark	.. 9643, 9652,
\tocstyle@feature@pagenumberbox	124, 1466, 1467,	9706, 9715, 13120,	
23177, 23180	1469, 1470, 7467,	13129, 13156,	
\tocstyle@feature@pagenumberhook	7468, 7474, 9413,	13165, 13989,	
23178, 23180	13869, 13870,	13998, 14038,	
\tocstyle@feature@parfillskip	13871, 15401, 15403	14047, 16993,	
23157, 23158	\toks@	17002, 17093,	
\tocstyle@feature@raggedhook	121, 125,	17102, 24037,	
23093	3698, 3711, 3975,	24046, 24084, 24093	
\tocstyle@feature@spaceafternumber	3988, 6679, 6683,	\topsep	2397, 4183, 4192,
23194,	9643, 9644, 9645,	4633, 6766, 7976,	
23198, 23219, 23223	9646, 9706, 9707,	8018, 16890, 16892	
\tocstyle@indentstyle	9708, 9709, 13120,	\topskip	301, 4049, 9807,
23144, 23214	13121, 13122,	13875, 13877,	
\tocstyle@l@define	13123, 13156,	13882, 16896,	
23231, 23234,	13157, 13158,	17187, 21954,	
23239, 23243,	13159, 13989,	21960, 21965,	
23247, 23251,	13990, 13991,	21972, 21977, 21982	
	13992, 14038,	\TOTALHEIGHT	21802, 21806
	14039, 14040,	\totalheight	..... 14294
	14041, 14264,	\tovalue	.....
	14267, 14301,	6043, 6130, 6138,	
	14303, 14307,		



6169, 6182, 6188, 6189	13083, 13084,	\TX@align .. 21746, 21748
\tracingmacros .... 6158	13868, 13872,	\TX@arith ..... 21708
\traditionalconnverses	13873, 13887,	\TX@ckpt ... 21698, 21744
... 8374, 8397, 8413	13891, 13896,	\TX@col@width . 21695,
\traditionalhalfverses	13899, 13910,	21701, 21706, 21749
..... 8363,	13914, 13915,	\TX@cols .....
8367, 8374, 8407	13916, 13917,	. 21702, 21706, 21750
\traditionalpoem .. 8609	13920, 14219,	\TX@endtabularx 14831,
\traditionalpoem@cr	14220, 14230,	14842, 14848, 21691
... 8487, 8536, 8537	14232, 14233,	\TX@find@endtabularxa
\traditionalpoem@obeylines	14235, 14236,	..... 21693, 21694
..... 8417, 8609	14239, 14241,	\TX@find@endtabularxb
\traditionalpoem@par	14242, 14276,	..... 21723
... 8417, 8418, 8536	14278, 14279,	\TX@find@endtabularxbb
\trimb ..... 7469, 7476	14281, 14282,	..... 21721
\trimc ..... 7478	14285, 14287,	\TX@ftn . 21718, 21753,
\trivlist .....	14288, 15551,	21755, 21757,
. 13211, 17640, 17660	17280, 17287,	21760, 21762, 21764
\ttdefault . 10129, 10221	17288, 17296,	\TX@ftntext ..... 21712
\ttfamily .....	17297, 17302,	\TX@LRFftntext ....
4088, 4128, 4129,	17303, 17316,	..... 21713, 21752
4131, 4132, 4133,	17317, 17324,	\TX@newcol ..... 21695
4134, 4135, 4136, 4137	17325, 17348,	\TX@old@table .... 21700
\ttl@a ..... 21877, 21879	17353, 18063,	\TX@RTLftntext ....
\ttl@b ..... 21872,	18064, 19351,	..... 21714, 21759
21873, 21877, 21879	19353, 20091,	\TX@target . 21701, 21715
\ttl@beginlongest 21847	20093, 20864,	\TX@trial .....
\ttl@calc .. 21842, 21854	20866, 21573,	. 21705, 21710, 21726
\ttl@change@centercr	21671, 21769,	\TX@trial@ftn .....
..... 21846	21777, 22102,	. 21729, 21730, 21731
\ttl@contentsstretch	23723, 23724,	\TX@typeout@ 21703, 21745
..... 21884	23953, 23957, 23959	\TX@verb ..... 21696
\ttl@corr .....	\twocolumn .... 462,	\TX@vwarn ..... 21732
. 21899, 21900, 21903	598, 614, 813,	\TX@xftntext ..... 21712
\ttl@endlongest .. 21862	863, 1065, 1115,	\TX@xLRFftntext ...
\ttl@filleft 21836, 21865	1315, 4025, 8710,	..... 21713, 21756
\ttl@filright 21837, 21866	8887, 9097, 9156,	\TX@xRTLftntext ...
\ttl@glcmds ..... 21849	10029, 10915,	..... 21714, 21763
\ttl@hmode@error . 21848	11012, 13015,	\typeout ..... 3601,
\ttl@leaders ..... 21901	16849, 18244,	3603, 6969, 6971,
\ttl@lselect 21908, 21911	18449, 18499,	6972, 6973, 6975,
\ttl@makeline 21842, 21897	18590, 18834,	6977, 6978, 6979,
\ttl@margin . 21896, 21902	18958, 19016,	13398, 18103,
\ttl@midlongest .. 21861	19573, 19579,	23096, 23108,
\ttl@outnoblock .. 21875	19582, 20313,	23128, 23129,
\ttl@savel@chapter 21910	20319, 20322,	23132, 23150, 23151
\ttl@savel@part .. 21907	21086, 21092,	
\ttl@h@hang ..... 21841	21095, 21954,	
\turn ..... 19243	21960, 21965,	
\turnbox ..... 19264	21972, 21977, 21982	
\tw@ ... 355, 363, 1380,	\twocolumnfootnotes	
1388, 1422, 1426,	..... 11510	
1431, 4355, 5259,	\TX@ ..... 21693,	
11613, 11618,	21694, 21722, 21723	

## U

\uc@authornothanks	.. 762, 791, 796,
	1014, 1043, 1048,
	1264, 1293, 1298,
	8850, 9027, 18398,



18427, 18432,	\unhskip . . . . . 5962	19276, 19793,
18537, 18568, 18573	\unitindent . . . . 637,	20554, 21319,
\uc@ax . . . . . 792,	648, 649, 651,	24035, 24082, 24311
793, 1044, 1045,	725, 731, 875,	\untilcondition 6044,
1294, 1295, 18428,	876, 878, 944, 945,	6058, 6142, 6185
18429, 18569, 18570	947, 948, 960, 965,	\unvbox . . . 2146, 2163,
\uc@nothanks . . . . .	1059, 1131, 1132,	2180, 2195, 2211,
. . 753, 790, 791,	1134, 1196, 1205,	2227, 9349, 9350,
800, 1005, 1042,	1211, 8726, 8727,	9604, 9607, 9624,
1043, 1052, 1255,	8729, 8804, 8810,	9628, 9641, 9691,
1292, 1293, 1302,	8903, 8904, 8906,	9704, 9750, 9775,
8841, 9018, 18389,	8957, 8963, 18267,	9790, 9813, 9817,
18426, 18427,	18278, 18279,	9907, 9936, 9990,
18436, 18528,	18281, 18332,	10001, 10014,
18567, 18568, 18577	18338, 18650,	10064, 10295,
\uc@tx . . . . . 790,	18651, 18653,	10298, 10299,
798, 1042, 1050,	18717, 18755, 18761	10316, 10319,
1292, 1300, 18426,	\unitlength . . . . .	10320, 10345,
18434, 18567, 18575	9503, 9513, 9526,	10352, 10357,
\uc@ty . . . . . 799,	9536, 9549, 9559,	10362, 10402,
800, 1051, 1052,	9572, 9582, 17674	10407, 10411,
1301, 1302, 18435,	\unkern . . 7631, 9777, 9787	10416, 11277,
18436, 18576, 18577	\unpenalty . . . . 9338,	11288, 11299,
\uncover . . 2153, 2170,	9777, 9787, 12491,	11392, 11413,
2187, 2203, 2219, 2235	12508, 12517, 13899	11468, 11474,
\undefined . . . . 6485,	\unrestored@protected@xdef	11509, 11574,
8561, 8615, 8618, 8620	. . . . . 2267,	11586, 11599,
\underline . 23912, 23920	2293, 2319, 4299,	11680, 11691,
\undertext . . . . . 23920	4307, 4315, 7714,	11703, 11786,
\unexpanded . . . . 5286,	7743, 7772, 8588,	11798, 11811,
5295, 5296, 5303,	8595, 8602, 13536,	11895, 11907,
5304, 5317, 5318,	13545, 13704,	11920, 12004,
5325, 5326, 5427,	13719, 14712,	12016, 12029,
5551, 19730,	14723, 14734, 14745	12113, 12125,
19736, 19739,	\unsetfootnoteRL . .	12138, 12222,
19745, 20491,	. . . . . 13551, 13552	12234, 12247,
20497, 20500,	\unsetLTR . . 18032, 23701	12331, 12343,
20506, 21256,	\unsetRL . . . 18070, 23732	12356, 12440,
21262, 21265, 21271	\unsetRTL . . 18031, 23700	12452, 12465,
\unhbox . . . . . 1496,	\unskip . . . 46, 60, 76,	12486, 12717,
8442, 8700, 9439,	249, 263, 278, 336,	12736, 12750,
12488, 12511,	1448, 1449, 1450,	12762, 12772,
12520, 12523,	2105, 2388, 2409,	12782, 12791,
12765, 12769,	7023, 7026, 7029,	12827, 12835,
12775, 12779,	7032, 7722, 7751,	12842, 12849,
12785, 12788,	7780, 8469, 8480,	12855, 13622,
12794, 12797,	9335, 9641, 9704,	13636, 13650,
15267, 15272,	9777, 9787, 11460,	13687, 13692,
15300, 15305,	12489, 12490,	13862, 13872,
15317, 15322,	13682, 13987,	13899, 13987,
23842, 23963,	14036, 16166,	14036, 14108,
23964, 23965, 23966	16208, 16211,	14110, 14154,
\unhcopy 15283, 15288,	16991, 17091,	14159, 14165,
21593, 21605, 21681	19248, 19258,	14176, 14176,



14192,	16113,	2449, 2454, 2545,	7018, 7019, 7226,
16118,	16127,	2623, 2633, 2639,	10706, 10709,
16130,	16214,	2702, 2707, 2708,	10717, 10724,
16232,	16991,	2714, 2720, 2726,	10732, 10739,
17020,	17022,	2735, 2737, 2747,	10782, 14402,
17030,	17048,	2749, 2759, 2761,	14406, 14489,
17050,	17091,	2796, 2802, 2879,	14491, 14495,
17120,	17122,	2885, 2891, 3011,	14497, 14502,
17130,	17148,	3112, 3124, 3126,	14504, 14508,
17150,	17205,	3147, 3194, 3201,	14510, 14514,
17909,	17913,	3210, 3234, 3271,	14516, 14520,
17918,	17922,	3273, 3288, 3371, 3466	14522, 14528,
17934,	17945,	\usebeamerfont . 1529,	14529, 14532,
17965,	17968,	1544, 1545, 1565,	14533, 14537,
17973,	18047,	1586, 1587, 1595,	14538, 14541,
18048,	18052,	1618, 1639, 1660,	14542, 14545,
18057,	23842,	1691, 1709, 1710,	14546, 14549,
24035,	24082,	1725, 1727, 1734,	14550, 14564,
24130,	24135,	1736, 1743, 1745,	14565, 14567,
24146,	24150,	2329, 2339, 2351,	14568, 14580,
24157, 24162, 24169		2361, 2374, 2439,	14581, 14583,
\unvcopy . . . . .		2494, 2495, 2511,	14584, 14590,
9776, 9814, 9818,		2512, 2513, 2546,	14591, 14594,
9846, 9852, 9856,		2563, 2569, 2578,	14595, 14599,
9864, 10339, 10396		2584, 2593, 2599,	14600, 14603,
\uppercase . . . . 308,		2607, 2632, 2638,	14604, 14607,
770, 790, 1022,		2655, 2661, 2667,	14608, 14611,
1042, 1272, 1292,		2707, 2708, 2714,	14612, 14619,
8858, 9035, 18406,		2720, 2726, 2735,	14621, 14625,
18426, 18545, 18567		2747, 2759, 2797,	14627, 14632,
\uppercasenonmath .		2803, 2857, 2871,	14634, 14638,
. . . . . 114, 15393		2941, 3000, 3003,	14640, 14644,
\uppermargin . . . . 10588		3007, 3012, 3030,	14646, 14650,
\uppertitleback . . .		3037, 3089, 3124,	14652, 14665,
. . 19501, 19536,		3126, 3190, 3202,	14667, 15568,
19629, 20241,		3227, 3234, 3271,	15570, 17670,
20276, 20369,		3273, 3346, 3355,	17671, 17673,
21014, 21049, 21142		3367, 3371, 3373,	17680, 17698,
\upshape . . 7899, 7906,		3422, 3431, 3441,	17980, 17981, 23630
7913, 7920, 7927,		3451, 3462, 3466,	\usecounter . . . . 91,
10130, 10134,		3468, 3504, 3513, 3532	294, 579, 714,
10135, 10222,		\usebeamertemplate	977, 1227, 2337,
10227, 10228, 18122		1971, 1975, 1986,	2398, 4639, 8014,
\urlstyle . . . . . 4462		1995, 2004, 2017,	8793, 8981, 9290,
\use . . . . . 16390		2024, 2033, 2066,	10852, 11123,
\usebeamercolor . . .		2075, 2079, 2087,	12960, 15333,
1530, 1566, 1582,		2133, 2138, 2332,	18350, 18744,
1589, 1596, 1619,		2336, 2354, 2357,	18938, 19141,
1640, 1661, 1692,		2377, 2444, 2446,	19675, 19680,
1755, 1760, 1770,		2451, 2456, 2548,	20436, 20441,
1831, 1863, 1866,		2799, 3013, 3211, 3234	21201, 21206, 21927
1911, 1994, 2023,		\usebox 4168, 4178, 6864,	\usefontofkomafont
2331, 2340, 2353,		6996, 6998, 7003,	. . . . . 19761,
2362, 2376, 2442,		7005, 7014, 7015,	19798, 20522,



20559, 21287, 21324	\value . . . . . 2939,	10355, 10356,
\usekomafont . . . . .	2940, 7512, 7531,	10373, 10380,
. . 19369, 19376,	7550, 7582, 13388,	10396, 10401,
19450, 19456,	13403, 13404,	10405, 10406,
19459, 19461,	13407, 13408,	10409, 10410,
19464, 19472,	13411, 15439,	10425, 10432,
19474, 19517,	15440, 15511,	11276, 11287,
19791, 19792,	15545, 19722,	11298, 11390,
19823, 19824,	20483, 21248, 21697	11573, 11585,
19829, 19834,	\var@@leftcolumn@badness	11598, 11679,
19835, 19838,	. . . 9815, 9827, 9833	11690, 11702,
19845, 19846,	\var@@rightcolumn@badness	11785, 11797,
19850, 19856,	. . . 9819, 9829, 9834	11810, 11894,
19857, 19861,	\var@@thecol@num 9759,	11906, 11919,
19924, 19927,	9761, 10030, 10048	12003, 12015,
19937, 19943,	\vbadness . . . . . 9640,	12028, 12112,
19945, 20109,	9703, 11498,	12124, 12137,
20116, 20190,	11502, 13118,	12221, 12233,
20196, 20199,	13154, 13259,	12246, 12330,
20201, 20204,	13986, 14035,	12342, 12355,
20212, 20214,	16990, 17090,	12439, 12451,
20257, 20552,	17861, 24034, 24081	12464, 12486,
20553, 20584,	\vbox . . . 306, 398, 404,	12666, 12678,
20585, 20590,	1416, 1483, 1751,	12690, 12714,
20595, 20596,	1869, 1979, 1985,	12727, 12733,
20599, 20606,	1993, 2003, 2016,	12741, 12747,
20607, 20611,	2022, 2032, 2046,	12755, 12824,
20617, 20618,	2061, 2083, 2141,	12832, 12847,
20622, 20686,	2158, 2175, 2193,	13132, 13169,
20689, 20699,	2209, 2225, 2571,	13260, 13265,
20705, 20708,	2586, 2601, 2645,	13290, 13305,
20882, 20889,	3118, 3128, 3153,	13330, 13621,
20963, 20969,	3173, 3175, 3268,	13635, 13649,
20972, 20974,	3276, 4379, 7253,	13668, 13859,
20977, 20985,	7254, 7256, 8429,	13872, 13896,
20987, 21030,	9343, 9348, 9426,	13987, 14004,
21317, 21318,	9604, 9607, 9624,	14036, 14053,
21349, 21350,	9628, 9641, 9656,	14152, 14163,
21355, 21360,	9673, 9689, 9704,	14188, 16054,
21361, 21364,	9719, 9732, 9748,	16113, 16118,
21371, 21372,	9773, 9774, 9813,	16121, 16126,
21376, 21382,	9814, 9817, 9818,	16127, 16130,
21383, 21387,	9846, 9852, 9855,	16176, 16214,
21451, 21454,	9863, 9902, 9932,	16746, 16896,
21464, 21470, 21473	9952, 9960, 9965,	16991, 17014,
\usepackage . . . . 6403,	9972, 9979, 9989,	17019, 17021,
6404, 6409, 6410,	10000, 10013,	17029, 17047,
6413, 6416, 6461, 6462	10063, 10069,	17052, 17091,
\usetocbasicnumberline	10287, 10295,	17114, 17119,
. . . . . 22660	10296, 10304,	17121, 17129,
	10308, 10316,	17147, 17152,
V	10317, 10325,	17183, 17719,
\vadjust . 8445, 8446, 8453	10339, 10344,	17895, 17896,
\valign . . . . 11499, 11503	10348, 10351,	17909, 17913,



17918,	17922,	18258,	18261,	421, 424, 430, 489,
17934,	17945,	18383,	18412,	495, 501, 505, 567,
17960,	17962,	18522,	18551,	646, 748, 757, 767,
17964,	17967,	18708,	18711,	838, 842, 848, 852,
17972,	18009,	18787,	18801,	873, 1000, 1009,
18016,	18017,	18974, 18988, 24373		1019, 1090, 1094,
18024,	18133,	\vfill . . . . 2710, 3207,		1100, 1104, 1129,
19801,	20562,	4017, 8209, 11499,		1250, 1259, 1269,
21327,	21649,	11503,	12887,	1340, 1345, 1351,
21683,	21688,	17960,	17965,	1355, 1361, 1364,
23230,	23233,	17966,	19173,	1723, 1732, 1741,
23238,	23242,	19188,	19220,	1767, 1813, 1826,
23246,	23250,	19237,	19453,	1830, 1879, 1881,
23254,	23258,	19478,	19492,	1883, 1885, 1887,
23262,	23266,	19516,	20193,	1888, 2561, 2568,
23658,	23666,	20218,	20232,	2571, 2576, 2583,
23667,	23675,	20256,	20966,	2586, 2591, 2598,
23832,	23837,	20991, 21005, 21029		2601, 2733, 2741,
23931,	23948,	\vfuzz 2645, 7480, 7483, 7484		2745, 2753, 2757,
24035,	24050,	\vleftskip . 16864, 16865		2765, 2826, 2909,
24082,	24097,	\voffset . . . . . 4045		2911, 3016, 3039,
24128,	24144,	\voidb@x . . . . . 9316, 9380		3077, 3117, 3129,
24155,	24289,	\vphantom . . . . . 23393		3176, 3191, 3196,
24330, 24369, 24372		\vpic . 17885, 17895, 17896		3204, 3212, 3236,
\vboxL . . . . . 18017,		\wrightskip . 16864, 16865		3259, 3268, 3299,
19163, 19208, 23667		\vrule . . . . 387, 1495,		3315, 3331, 3333,
\vboxR . . . . . 18009, 23658		1569, 1575, 1583,		3354, 3359, 3366,
\vcenter 398, 1480, 9423,		1590, 1599, 1608,		3374, 3377, 3403,
21683,	23750,	1622, 1631, 1643,		3414, 3444, 3450,
23839, 23840, 23931		1652, 1664, 1673,		3461, 3471, 3560,
\veqno . . . . . 327, 328		3114, 3150, 3157,		4394, 8485, 8512,
\verb . . . . . 21696		3161, 3517, 3536,		8548, 8549, 8555,
\VerbBox . . . 10763, 10765		7255, 7256, 8428,		8665, 8667, 8724,
\verse@i . . . . . 8459,		8430, 9438, 9660,		8763, 8836, 8845,
8490, 8496, 8504, 8545		9725, 9957, 9976,		8855, 8901, 8940,
\verse@ii . . . . .		13134, 13175,		9013, 9022, 9032,
8470, 8491, 8497,		14010, 14057,		9063, 9068, 9072,
8499, 8505, 8507, 8545		16045, 16099,		9074, 9080, 9084,
\versewidth . . . . .		16474, 16736,		9086, 9115, 9118,
. . . 8422, 8432, 8524		16817, 17024,		9124, 9183, 9189,
\vfil 420, 434, 628, 631,		17031, 17056,		9195, 9199, 9219,
747, 776, 935, 938,		17124, 17131,		9258, 9263, 9271,
999, 1028, 1187,		17158, 17187,		9690, 9749, 9910,
1190, 1249, 1278,		17300, 17311,		9914, 9992, 9995,
1987, 2005, 2018,		21609, 21637,		10004, 10007,
2034, 3119, 3130,		21678, 23934,		10018, 10020,
8429, 8779, 8782,		24054, 24103, 24303		10360, 10414,
8835, 8864, 8967,		\vsize . . . . . 10038,		10832, 10840,
8970, 9012, 9041,		13280, 13824,		10876, 10879,
9114, 9128, 10295,		13875, 16125,		10885, 10940,
10316, 10875,		16133, 19398,		10944, 10950,
10889, 10970,		19415, 20138,		10954, 10971,
10984, 12975,		20155, 20911, 20928		10974, 10980,
12989, 18053,		\vskip . . . . . 309, 312,		11039, 11045,



11051,	11055,	19117,	19121,	11084,	11099,
11090,	11095,	19129,	19368,	11144,	11146,
11104,	11410,	19375,	19457,	11148,	12923,
11435,	11443,	19460,	19462,	12935,	15424,
11451,	11465,	19471,	19473,	15426,	16196,
11481,	12806,	19475,	19518,	16209,	19112,
12815,	12828,	19778,	19780,	19124,	21954,
12836,	12838,	19784,	19786,	21960,	21965,
12851,	12910,	19878,	19880,	21972, 21977, 21982	
12928,	12932,	19889,	19891,	\vsplit 9599,9600,9617,	
12940,	12976,	20108,	20115,	9621, 9642, 9705,	
12979,	12985,	20197,	20200,	9811, 9901, 10066,	
13040,	13044,	20202,	20211,	11508,	13119,
13050,	13054,	20213,	20215,	13155,	13868,
13304,	13308,	20258,	20539,	13988,	14037,
13309,	13684,	20541,	20545,	16992,	17092,
13860,	13898,	20547,	20640,	17866,	17869,
13903,	14155,	20642,	20651,	17888,	17889,
14166,	14173,	20653,	20881,	17907,	17911,
14193,	15530,	20888,	20970,	17916,	17920,
15651,	15664,	20973,	20975,	17932,	17943,
16072,	16084,	20984,	20986,	17970, 24036, 24083	
16229,	16890,	20988,	21031,	\vss . . . 306, 1996, 2025,	
16892,	16895,	21304,	21306,	3154, 9676, 9735,	
16936,	16945,	21310,	21312,	9918, 9924, 9940,	
16953,	17022,	21405,	21407,	9946, 9960, 9965,	
17023,	17025,	21416,	21418,	9972, 9979, 10067,	
17032,	17049,	22046,	22065,	10352,	10362,
17122,	17123,	22086,	22103,	10407,	10416,
17125,	17132,	22120,	22137,	13331,	16118,
17149,	17194,	22154,	22172,	16130,	16747,
17206,	17225,	22191,	22211,	17895,	17896,
17237,	17249,	22246,	22435,	17967, 18133, 23842	
17860,	17877,	23087,	23271,	\vtop . . . 398, 404, 1415,	
17898,	17964,	23450,	23454,	1482, 7314, 7358,	
18050,	18056,	23473,	23854,	7402, 9349, 9425,	
18276,	18315,	23863,	23872,	16036,	21649,
18384,	18393,	23881,	23969,	21683,	21688,
18403,	18474,	24131,	24147,	23838,	23931,
18478,	18484,	24158,	24166,	23948, 24204, 24248	
18488,	18523,	24289,	24368,		
18532,	18542,	24381, 24408, 24416			
18617,	18624,			W	
18630,	18634,	\vspace 2629, 2631, 2659,		\waslice 17895, 17913,	
18640,	18643,	2665, 2671, 2780,		17918,	17934,
18648,	18687,	2787, 2808, 2869,		17953, 17954, 17963	
18788,	18791,	4562, 6857, 6947,		\wbslice . . . . . 17896,	
18797,	18861,	6955, 7573, 7577,		17909,	17922,
18867,	18872,	7639, 7644, 7657,		17945,	17952,
18875,	18894,	7662, 7675, 7680,		17954,	17955,
18975,	18978,	7797, 7806, 7815,		17959,	17960,
18984,	19043,	7896, 7903, 7910,		17967, 17972, 17973	
19049,	19055,	7917, 7924, 8207,		\wd . . . 1773, 1778, 1792,	
19059,	19079,	8251, 8255, 9057,		1814, 1891, 1904,	
		9077, 9252, 9266,		1920, 1974, 1978,	





13121, 13123,  
 13157, 13159,  
 13522, 13990,  
 13992, 14039,  
 14041, 14182,  
 14843, 15480,  
 16052, 16994,  
 16996, 17094,  
 17096, 17810,  
 17817, 17824,  
 21872, 23112,  
 23116, 23137,  
 23141, 23203,  
 23207, 23482,  
 23487, 23508,  
 23509, 23511,  
 23512, 24038,  
 24040, 24085, 24087  
 \XeLaTeX . . . . . 15225,  
 23728, 24609, 24610  
 \XeTeX . . 15224, 18066,  
 23726, 24607, 24608  
 \XeTeXcharclass 3852,  
 3853, 3854, 3855, 3856  
 \XeTeXinterchartokenstate  
 . . . . . 3849  
 \XeTeXinterchartoks 3857  
 \XKV@err . . 2252, 2255,  
 2278, 2281, 2304, 2307  
 \XKV@errx 2258, 2284, 2310  
 \XKV@tkey 2255, 2281, 2307  
 \xm . . . . . 10528,  
 10532, 10546, 10550  
 \xxm . . . . . 10536,  
 10540, 10554, 10558  
 \xyzy . . . . . 7461  
  
 Y  
 \y . . . . . 10528, 10532,  
 10536, 10540,  
 10545, 10546,  
 10549, 10550,  
 10554, 10555,  
 10558, 10559,  
 15229, 15231,  
 15232, 15235, 15242  
 \ym . . . . . 10545,  
 10549, 10555, 10559  
 \yym . . . . . 10527,  
 10531, 10537, 10541  
  
 Z  
 \z@ . . . 12, 24, 46, 60, 76,  
 99, 103, 111, 128,

134, 136, 207, 219,  
 223, 249, 263, 278,  
 306, 314, 318, 336,  
 357, 361, 364, 375,  
 390, 395, 401, 402,  
 466, 513, 525, 530,  
 557, 596, 601, 602,  
 612, 616, 617, 646,  
 647, 650, 652, 665,  
 690, 742, 759, 817,  
 861, 865, 866, 873,  
 874, 877, 880, 892,  
 909, 946, 949, 994,  
 1011, 1057, 1069,  
 1113, 1117, 1118,  
 1129, 1130, 1133,  
 1135, 1148, 1174,  
 1244, 1261, 1319,  
 1356, 1382, 1386,  
 1389, 1402, 1424,  
 1432, 1450, 1460,  
 1462, 1472, 1474,  
 1479, 1493, 1495,  
 1496, 1873, 1875,  
 1876, 1881, 1883,  
 1885, 1887, 1888,  
 1913, 2154, 2171,  
 2188, 2204, 2220,  
 2236, 3699, 3704,  
 3705, 3706, 3708,  
 3976, 3981, 3982,  
 3983, 3985, 4339,  
 4394, 4654, 4664,  
 4669, 5203, 5220,  
 6024, 6034, 6754,  
 6763, 7062, 7295,  
 7299, 7339, 7343,  
 7383, 7387, 7973,  
 8000, 8031, 8043,  
 8221, 8449, 8452,  
 8455, 8496, 8497,  
 8499, 8505, 8519,  
 8523, 8527, 8528,  
 8529, 8530, 8531,  
 8532, 8545, 8619,  
 8631, 8632, 8639,  
 8641, 8654, 8656,  
 8664, 8708, 8712,  
 8713, 8724, 8725,  
 8728, 8730, 8743,  
 8766, 8818, 8820,  
 8822, 8830, 8847,  
 8885, 8889, 8890,  
 8901, 8902, 8905,

8907, 8920, 8943,  
 8995, 8997, 8999,  
 9007, 9024, 9058,  
 9078, 9095, 9100,  
 9101, 9160, 9207,  
 9222, 9240, 9242,  
 9244, 9253, 9267,  
 9318, 9319, 9330,  
 9332, 9415, 9417,  
 9422, 9436, 9438,  
 9439, 9444, 9445,  
 9446, 9447, 9448,  
 9482, 9493, 9611,  
 9779, 9802, 9835,  
 9838, 9841, 9849,  
 9860, 9870, 9873,  
 9878, 9881, 9885,  
 9912, 9915, 9921,  
 9937, 9943, 9997,  
 10009, 10022,  
 10041, 10044,  
 10065, 10293,  
 10314, 10331,  
 10332, 10334,  
 10335, 10343,  
 10365, 10367,  
 10370, 10388,  
 10389, 10391,  
 10392, 10400,  
 10417, 10419,  
 10422, 10745,  
 10767, 10769,  
 10771, 10774,  
 10776, 10778,  
 10780, 10782,  
 10783, 10789,  
 10794, 10808,  
 10822, 10835,  
 10919, 11016,  
 11062, 11072,  
 11074, 11076,  
 11085, 11100,  
 11218, 11224,  
 11230, 11343,  
 11348, 11355,  
 11360, 11367,  
 11372, 11478,  
 11479, 11480,  
 11560, 11666,  
 11772, 11881,  
 11990, 12099,  
 12208, 12317,  
 12426, 12495,  
 12568, 12630,



12696,	12700,	16166,	16187,	19245,	19249,
12704,	12803,	16189,	16211,	19250,	19255,
12804,	12805,	16240,	16852,	19259,	19260,
12812,	12813,	16855,	16879,	19261,	19266,
12814,	12898,	17004,	17008,	19267,	19268,
12913,	12924,	17018,	17079,	19273,	19277,
12936,	13019,	17104,	17108,	19278,	19323,
13062,	13064,	17118,	17176,	19338,	19351,
13066,	13095,	17193,	17202,	19359,	19368,
13246,	13303,	17204,	17225,	19375,	19377,
13331,	13354,	17237,	17249,	19447,	19473,
13356,	13358,	17269,	17280,	19518,	19831,
13367,	13369,	17286,	17563,	19884,	19964,
13371,	13517,	17568,	17609,	19973,	19976,
13571,	13588,	17619,	17669,	19982,	19992,
13604,	13631,	17670,	17671,	20002,	20062,
13645,	13659,	17673,	17675,	20077,	20091,
13673,	13677,	17680,	17698,	20099,	20108,
13753,	13758,	17981,	18025,	20115,	20117,
13765,	13770,	18027,	18062,	20187,	20213,
13777,	13782,	18063,	18064,	20258,	20592,
13865,	13915,	18073,	18074,	20646,	20726,
13922,	13948,	18087,	18111,	20729,	20735,
13949,	13950,	18112,	18133,	20749,	20755,
13971,	13972,	18178,	18179,	20765,	20775,
14138,	14213,	18196,	18242,	20835,	20850,
14214,	14215,	18246,	18247,	20864,	20872,
14222,	14229,	18276,	18277,	20881,	20888,
14230,	14231,	18280,	18282,	20890,	20960,
14232,	14233,	18295,	18318,	20986,	21031,
14235,	14236,	18364,	18366,	21357,	21411,
14238,	14239,	18368,	18378,	21491,	21494,
14241,	14275,	18395,	18453,	21500,	21514,
14276,	14277,	18497,	18501,	21520,	21530,
14278,	14279,	18502,	18517,	21540,	21580,
14281,	14282,	18534,	18594,	21581,	21582,
14284,	14285,	18635,	18648,	21583,	21588,
14287,	14359,	18649,	18652,	21589,	21593,
14365,	15342,	18654,	18667,	21605,	21639,
15346,	15362,	18690,	18729,	21662,	21674,
15366,	15378,	18731,	18733,	21678,	21771,
15390,	15407,	18786,	18829,	21775,	21782,
15504,	15547,	18838,	18865,	21793,	21839,
15554,	15562,	18882,	18897,	21840,	21850,
15575,	15577,	18918,	18920,	21854,	21855,
15617,	15624,	18922,	18956,	21856,	21859,
15629,	15640,	18961,	18962,	21868,	21869,
15712,	16014,	19020,	19067,	21871,	21872,
16016,	16048,	19082,	19100,	21874,	21882,
16054,	16057,	19102,	19104,	21887,	21902,
16062,	16065,	19113,	19125,	21988,	21989,
16099,	16113,	19160,	19161,	22063,	22153,
16117,	16118,	19162,	19205,	22171,	22264,
16121,	16127,	19206,	19207,	22443,	22555,



22619,	22626,	23775,	23776,	21643,	21648,
22629,	22976,	23777,	23854,	21681,	21687,
22980,	23087,	23863,	23872,	23884,	23885,
23092,	23097,	23881,	23885,	23940,	23946, 24366
23145,	23271,	23905,	23906,	\zap@space	6391, 6478, 6514
23457,	23464,	23936,	23947,	\zifrefundefined	..
23465,	23483,	23955,	23960,	.....	13420, 13443
23499,	23502,	23969,	24185,	\zref@extractdefault	
23511,	23512,	24189,	24229,	.....	13425, 13446
23514,	23518,	24233,	24274,	\zref@labelbyprops	
23525,	23526,	24278,	24281,	.....	13391, 13466
23527,	23528,	24291,	24292,		☒
23623,	23628,	24296,	24303,	\	..... 3855
23630,	23678,	24340,	24366,	\	..... 3855
23682,	23683,	24379, 24419, 24420			☒
23688,	23692,			\	..... 3856
23693,	23722,	\z@skip .. 4394, 13301,		\	..... 3856
23723,	23724,	13302,	16187,	\	..... 3856
		16190,	18193,		

