



# The bidi Package

Source documentation for [version 41.0](#)

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/xepersian/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:

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# The *bidi* Package

## Bidirectional typesetting in plain $\TeX$ and $\LaTeX$ , using Xe $\TeX$ engine

Source documentation for version 41.0

Vafa Khalighi\*

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### Contents

1	File <code>amsart-xetex-bidi.def</code>	5	18	File <code>beamerbasecompatibility-xetex-bidi.def</code>	44
2	File <code>adjmulticol-xetex-bidi.def</code>	7	19	File <code>beamerbaseframecomponents-xetex-bidi.def</code>	44
3	File <code>algorithm2e-xetex-bidi.def</code>	8	20	File <code>beamerbaseframesize-xetex-bidi.def</code>	51
4	File <code>amsbook-xetex-bidi.def</code>	8	21	File <code>beamerbaselocalstructure-xetex-bidi.def</code>	54
5	File <code>amsmath-xetex-bidi.def</code>	11	22	File <code>beamerbasemisc-xetex-bidi.def</code>	55
6	File <code>amstext-xetex-bidi.def</code>	11	23	File <code>beamerbasenavigation-xetex-bidi.def</code>	56
7	File <code>amsthm-xetex-bidi.def</code>	11	24	File <code>beamerbaseoverlay-xetex-bidi.def</code>	58
8	File <code>array-xetex-bidi.def</code>	12	25	File <code>beamerinnerthemedefault-xetex-bidi.def</code>	58
9	File <code>article-xetex-bidi.def</code>	13	26	File <code>beamerinnerthemecircles-xetex-bidi.def</code>	62
10	File <code>artikel1-xetex-bidi.def</code>	17	27	File <code>beamerinnerthemefocus-xetex-bidi.def</code>	62
11	File <code>artikel2-xetex-bidi.def</code>	22	28	File <code>beamerinnerthemeinmargin-xetex-bidi.def</code>	63
12	File <code>artikel3-xetex-bidi.def</code>	26	29	File <code>beamerinnerthememetropolis-xetex-bidi.def</code>	65
13	File <code>arydshln-xetex-bidi.def</code>	31	30	File <code>beamerinnerthemerectangles-xetex-bidi.def</code>	67
14	File <code>beamer-xetex-bidi.def</code>	34	31	File <code>beamerinnerthemrounded-xetex-bidi.def</code>	67
15	File <code>beamerbaseauxtemplates-xetex-bidi.def</code>	34	32	File <code>beamerouterthemedefault-xetex-bidi.def</code>	68
16	File <code>beamerbaseboxes-xetex-bidi.def</code>	40	33	File <code>beamerouterthemefocus-xetex-bidi.def</code>	69
17	File <code>beamerbasecolor-xetex-bidi.def</code>	42	34	File <code>beamerouterthemeinfolines-xetex-bidi.def</code>	71

\*Thanks to the `bidi-tex` GitHub organization consisted of David Carlisle and other members of the  $\LaTeX$  team for maintaining the package in the period 2018–2020.

35	File beamerouterthememetropolis-xetex-bidi.def	186
36	File beamerouterthememiniframes-xetex-bidi.def	190
37	File beamerouterthemesidebar-xetex-bidi.def	191
38	File beamerouterthemesplit-xetex-bidi.def	191
39	File beamerouterthemeshadow-xetex-bidi.def	192
40	File beamerouterthesmoothbars-xetex-bidi.def	192
41	File beamerouterthesmoothtree-xetex-bidi.def	192
42	File beamerouterthemetree-xetex-bidi.def	193
43	File beamerthemeHannover-xetex-bidi.def	194
44	File beamerthemeSingapore-xetex-bidi.def	196
45	File bidi.sty	82
46	File bidi.tex	89
47	File bidi2ini.sty	92
48	File bidicode.sty	93
49	File bidiftnxtra.sty	96
50	File bidimoderncv.cls	100
51	File bidi-perpage.sty	105
52	File biditools.sty	106
53	File bidituftefloat.sty	141
54	File bidituftesidenote.sty	151
55	File bidituftetoc.sty	162
56	File bidituftegeneralstructure.sty	164
57	File bidituftehyperref.sty	167
58	File biditufтетitle.sty	167
59	File biditufte-handout.cls	170
60	File biditufte-book.cls	170
61	File bidipoem.sty	172
62	File boek3-xetex-bidi.def	178
63	File boek-xetex-bidi.def	182
64	File bookest-xetex-bidi.def	185
72	File def02-xetex-bidi.def	186
72	File def02-xetex-bidi.def	186
72	File def02-xetex-bidi.def	186
73	File def03-xetex-bidi.def	191
75	File def05-xetex-bidi.def	191
76	File def06-xetex-bidi.def	192
77	File def07tbl-xetex-bidi.def	192
79	File def09-xetex-bidi.def	192
80	File def10combine-xetex-bidi.def	193
81	File def11crop-xetex-bidi.def	194
81	File def11cutwin-xetex-bidi.def	196
75	File def15cuted-xetex-bidi.def	196
76	File cvthemebidicasual.sty	205
77	File cvthemebidiclassic.sty	206
78	File dblfnote-xetex-bidi.def	208
79	File diagbox-xetex-bidi.def	212
80	File draftwatermark-xetex-bidi.def	214
81	File eso-pic-xetex-bidi.def	214
82	File empheq-xetex-bidi.def	215
83	File extarticle-xetex-bidi.def	218
84	File extbook-xetex-bidi.def	221
85	File extletter-xetex-bidi.def	225
86	File extrafootnotefeatures-xetex-bidi.def	225
87	File extreport-xetex-bidi.def	296
88	File fancybox-xetex-bidi.def	299
89	File fancyhdr-xetex-bidi.def	300
90	File fix2col-xetex-bidi.def	300
91	File fleqn-xetex-bidi.def	301
92	File float-xetex-bidi.def	302
93	File floatrow-xetex-bidi.def	302
94	File flowfram-xetex-bidi.def	302



95	File footnote-xetex-bidi.def	305	125	File overpic-xetex-bidi.def	378
96	File footnotebackref-xetex-bidi.def	312	126	File pdfbase-xetex-bidi.def	378
97	File framed-xetex-bidi.def	313	127	File pdfscape-xetex-bidi.def	379
98	File ftnright-xetex-bidi.def	316	128	File pdfpages-xetex-bidi.def	379
99	File graphicx-xetex-bidi.def	321	129	File pgfcorescopes.code-xetex-bidi.def	380
100	File geometry-xetex-bidi.def	323	130	File pgfsys.code-xetex-bidi.def	381
101	File hvfloat-xetex-bidi.def	324	131	File picinpar-xetex-bidi.def	381
102	File hyperref-xetex-bidi.def	330	132	File plain-xetex-bidi.def	384
103	File imsproc-xetex-bidi.def	342	133	File pstricks-xetex-bidi.def	386
104	File leqno-xetex-bidi.def	343	134	File quotchap-xetex-bidi.def	387
105	File letter-xetex-bidi.def	343	135	File ragged2e-xetex-bidi.def	387
106	File lettrine-xetex-bidi.def	344	136	File rapport1-xetex-bidi.def	389
107	File lineno-xetex-bidi.def	344	137	File rapport3-xetex-bidi.def	394
108	File listings-xetex-bidi.def	345	138	File refrep-xetex-bidi.def	399
109	File longtable-xetex-bidi.def	347	139	File report-xetex-bidi.def	402
110	File lscape-xetex-bidi.def	350	140	File rotating-xetex-bidi.def	406
111	File mathtools-xetex-bidi.def	350	141	File scrartcl-xetex-bidi.def	409
112	File mdframed-xetex-bidi.def	350	142	File scrbook-xetex-bidi.def	422
113	File media9-xetex-bidi.def	352	143	File screprt-xetex-bidi.def	437
114	File bidi-media9.sty	352	144	File sidecap-xetex-bidi.def	451
115	File memoir-xetex-bidi.def	363	145	File soul-xetex-bidi.def	452
116	File midfloat-xetex-bidi.def	366	146	File stabular-xetex-bidi.def	453
117	File minitoc-xetex-bidi.def	370	147	File subfigure-xetex-bidi.def	453
118	File multicol-xetex-bidi.def	371	148	File tabs-xetex-bidi.def	454
119	File multienum-xetex-bidi.def	374	149	File tabularx-xetex-bidi.def	454
120	File natbib-xetex-bidi.def	375	150	File tabulary-xetex-bidi.def	456
121	File newfloat-xetex-bidi.def	376	151	File tc-xetex-bidi.def	456
122	File nicematrix-xetex-bidi.def	376	152	File tcolorbox-xetex-bidi.def	457
123	File ntheorem-xetex-bidi.def	377	153	File titlesec-xetex-bidi.def	457
124	File ntheorem-hyper-xetex-bidi.def	377	154	File titletoc-xetex-bidi.def	458



155	File tocbibind-xetex-bidi.def	459	160	File wrapfig-xetex-bidi.def	488
156	File tocloft-xetex-bidi.def	460	161	File xcolor-xetex-bidi.def	489
157	File tocbasic-xetex-bidi.def	466	162	File latex-xetex-bidi.def	491
158	File tocstyle-xetex-bidi.def	480	163	File xltextra-xetex-bidi.def	509
159	File todonotes-xetex-bidi.def	485	164	Index	509



## 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\rightskip\else\leftskip\fi#3\relax \advance\if@RTL\rightskip\else\
13 \if@RTL\leftskip\else\rightskip\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 \@makefntext{%
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 \@makefntext{%
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 \ifRTL\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 \ifRTL\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\shorttitle
115 \ifx\@empty\shortauthors \let\shortauthors\shorttitle
116 \else \andify\shortauthors
117 \fi
118 \@maketitle@hook
119 \begingroup
120 \@maketitle
121 \toks@\@xp{\shortauthors}\@temptokena\@xp{\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}[2025/01/03 v0.3 bidi adaptations for algorithm2e p
166 \expandafter\ifx\csname algocf@within\endcsname\relax% if \algocf@within doesn't exist
167 \else%
168 \renewcommand\thealgocf{\csname the\algocf@within\endcsname\@SepMark\@arabic@c@algocf}%
169 \fi
170 \ApplyPatchIfPackageLoadedF{color}{%
171 \bidi@patchcmd{\@algocf@start}{\bgroup}{%
172 \bgroup
173 \if@RTL
174 \beginR
175 \else
176 \beginL
177 \fi
178 }{}{}
179 \bidi@patchcmd{\@algocf@finish}{\egroup\end{lrbox}}{%
180 \if@RTL
181 \endR
182 \else
183 \endL
184 \fi
185 \egroup
186 \end{lrbox}}%
187 }{}{}
188 \bidi@patchcmd{\algocf@makecaption}{\hbox}{%
189 \if@RTL
190 \hboxR
191 \else
192 \hboxL
193 \fi
194 }{}{}
195 }
196
197 \@ifpackagewith{algorithm2e}{algonl}{%
198 \renewcommand{\theAlgoLine}{\expandafter\csname the\algocf@float\endcsname\@SepMark\arabic{A
199 }{}
200
201 \@ifpackagewith{algorithm2e}{algotpart}{\renewcommand{\algocf@within}{part}}{}
202
203 \@ifpackagewith{algorithm2e}{algotchapter}{\renewcommand{\algocf@within}{chapter}}{}
204
205 \@ifpackagewith{algorithm2e}{algotsection}{\renewcommand{\algocf@within}{section}}{}

```

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



```

206 \ProvidesFile{amsbook-xetex-bidi.def}[2017/08/09 v1.2 bidi adaptations for amsbook class for
207 \def\@tocline#1#2#3#4#5#6#7{\relax
208   \ifnum #1>\c@tocdepth % then omit
209   \else
210     \par \addpenalty\@secpenalty\addvspace{#2}%
211     \begingroup \hyphenpenalty\@M
212     \@ifempty{#4}{%
213       \@tempdima\csname r@tocindent\number#1\endcsname\relax
214     }{%
215       \@tempdima#4\relax
216     }%
217     \parindent\z@ \if@RTL\rightskip\else\leftskip\fi#3\relax \advance\if@RTL\rightskip\else\
218     \if@RTL\leftskip\else\rightskip\fi\@pnumwidth plus4em \parfillskip-\@pnumwidth
219     #5\leavevmode\hskip-\@tempdima #6\nobreak\relax
220     \hfil\hbox to\@pnumwidth{\@tocpagenum{#7}}\par
221     \nobreak
222   \endgroup
223 \fi}
224 \renewcommand\thesubsection {\thesection\@SepMark\arabic{subsection}}
225 \renewcommand\thesubsubsection {\thesubsection \@SepMark\arabic{subsubsection}}
226 \renewcommand\theparagraph {\thesubsubsection\@SepMark\arabic{paragraph}}
227 \renewcommand\thesubparagraph {\theparagraph\@SepMark\arabic{subparagraph}}
228 \def\theindex{\@restonecoltrue\if@twocolumn\@restonecolfalse\fi
229   \columnseprule\z@ \columnsep 35\p@
230   \@indextitlestyle
231   \thispagestyle{plain}%
232   \let\item\@idxitem
233   \parindent\z@ \parskip\z@\@plus.3\p@\relax
234   \if@RTL\raggedleft\else\raggedright\fi
235   \hyphenpenalty\@M
236   \footnotesize}
237 \def\@idxitem{\par\hangindent \if@RTL-\fi2em}
238 \def\subitem{\par\hangindent \if@RTL-\fi2em\hspace*{1em}}
239 \def\subsubitem{\par\hangindent \if@RTL-\fi3em\hspace*{2em}}
240 \def\right@footnoterule{%
241   \kern-.4\p@
242   \hbox to \columnwidth{\hskip \dimexpr\columnwidth-5pc\relax \hrulefill }
243   \kern11\p@\kern-\footnotesep}
244 \def\left@footnoterule{\kern-.4\p@
245   \hrule\@width 5pc\kern11\p@\kern-\footnotesep}
246
247 \long\def\@footnotetext#1{%
248   \insert\footins{%
249     \if@RTL\footnote\@RTLtrue\else\@RTLfalse\fi%
250     \reset@font%
251     \bidi@footnotetext@font% \normalfont\footnotesize
252     \interlinepenalty\interfootnotelinepenalty
253     \splittopskip\footnotesep \splitmaxdepth \dp\strutbox
254     \floatingpenalty\@MM \hsize\columnwidth
255     \@parboxrestore \parindent\normalparindent \sloppy
256     \protected@edef\@currentlabel{%
257       \csname p@footnote\endcsname\@thefnmark}%
258     \@makefntext{%
259       \rule\z@\footnotesep\ignorespaces#1\unskip\strut\par}}}}

```



```

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

```



```

314 \ifnum\c@secnumdepth>\m@ne
315 \leavevmode \hskip-\if@RTL\rightskip\else\leftskip\fi
316 \rlap{\vbox to\z@{\vss
317 \centerline{\normalsize\mdseries
318 \uppercase\@xp{\chaptername}\enspace\thechapter}
319 \vskip 3pc}}\hskip\if@RTL\rightskip\else\leftskip\fi\fi
320 #1\par \endgroup
321 \skip@34\p@ \advance\skip@-\normalbaselineskip
322 \vskip\skip@ }
323 \def\maketitle{\par
324 \topnum\z@ % this prevents figures from falling at the top of page 1
325 \begingroup
326 \@maketitle
327 \endgroup
328 \c@footnote\z@
329 \def\do##1{\let##1\relax}%
330 \do\maketitle \do\@maketitle \do\title \do\@xtitle \do\@title
331 \do\author \do\@xauthor \do\address \do\@xaddress
332 \do\email \do\@xemail \do\curraddr \do\@xcurraddr
333 \do\dedicatory \do\@dedicatory \do\thanks \do\thankses
334 \do\keywords \do\@keywords \do\subjclass \do\@subjclass
335 }

```

## 5 File `amsmath-xetex-bidi.def`

```

336 \ProvidesFile{amsmath-xetex-bidi.def}[2020/05/16 v1.2 bidi adaptations for amsmath package f
337 \let\veqno=\eqno
338 \iftagsleft@ \let\veqno=\leqno \fi
339 \renewcommand{\numberwithin}[3][\arabic]{%
340 \ifundefined{c@#2}{\@nocounterr{#2}}{%
341 \ifundefined{c@#3}{\@nocnterr{#3}}{%
342 \addtoreset{#2}{#3}%
343 \xp\xdef\csname the#2\endcsname{%
344 \xp\@nx\csname the#3\endcsname \@nx\@SepMark\@nx#1{#2}}}%
345 }
346 \def\tagform@#1{\maketag@@@{\if@nonlatin\beginR\fi(\kern\z@\ignorespaces#1\unskip\@italicco
347
348 \bidi@patchcmd\math@cr@@@align\place@tag{%
349 \place@tag
350 \else
351 \place@tag
352 }{}{}
353

```

## 6 File `amstext-xetex-bidi.def`

```

354 \ProvidesFile{amstext-xetex-bidi.def}[2016/09/12 v0.2 bidi adaptations for amstext package f
355 \def\textdef@#1#2#3{\hbox{%
356 \everymath{#1}%
357 \let\fontsize#2\selectfont
358 \if@nonlatin\beginR\fi#3\if@nonlatin\endR\fi}}

```

## 7 File `amsthm-xetex-bidi.def`



```

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

```

## 8 File array-xetex-bidi.def

```

361 \ProvidesFile{array-xetex-bidi.def}[2024/12/10 v0.5 bidi adaptations for array package for X
362 \def\@testpach{\@chclass
363 \ifnum \@lastchclass=6 \@ne \@chnum \@ne \else
364 \ifnum \@lastchclass=7 5 \else
365 \ifnum \@lastchclass=8 \tw@ \else
366 \ifnum \@lastchclass=9 \thr@@
367 \else \z@
368 \ifnum \@lastchclass = 10 \else
369 \edef\@nextchar{\expandafter\string\@nextchar}%
370 \@chnum
371 \if \@nextchar c\z@ \else
372 \if \@nextchar \if@RTLtab r\else l\fi\@ne \else
373 \if \@nextchar \if@RTLtab l\else r\fi\tw@ \else
374 \z@ \@chclass
375 \if \@nextchar |\@ne \else
376 \if \@nextchar !6 \else
377 \if \@nextchar @7 \else
378 \if \@nextchar <8 \else
379 \if \@nextchar >9 \else
380 10
381 \@chnum
382 \if \@nextchar m\thr@@ \else
383 \if \@nextchar p4 \else
384 \if \@nextchar b5 \else
385 \z@ \@chclass \z@ \@preamerr \z@ \fi \fi \fi \fi
386 \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi}
387 \def\@tabular{%
388 \leavevmode
389 \hbox \bgroup\if@RTLtab\beginR \fi
390 \UseTaggingSocket{tbl/hmode/begin}%
391 $\col@sep\tabc@sep \let\d@llarbegin\begin@group
392 \let\d@llarend\end@group
393 \@tabarray}
394 \def\endtabular{\endarray\m@th $
395 \UseTaggingSocket{tbl/hmode/end}%
396 \if@RTLtab\endR\fi\egroup
397 }
398 \expandafter\let\c@name endtabular*\endc@name=\endtabular
399 \ExplSyntaxOn
400 \def\@array[#1]#2{
401 \@tempdima \ht \strutbox
402 \advance \@tempdima by\extrarowheight
403 \setbox \@arstrutbox \hbox{\vrule
404 \@height \arraystretch \@tempdima
405 \@depth \arraystretch \dp \strutbox
406 \@width \z@}%
407 \tbl_save_outer_table_cols:
408 \begin@group
409 \mkpream{#2}%

```



```

410 \tbl_count_table_cols:
411 \xdef\@preamble{
412   \noexpand \ar@ialign
413   \@halignto
414   \bgroup \@arstrut
415   \UseTaggingSocket{tbl/row/begin}
416   \tbl_init_cell_data_for_row:
417   \@preamble
418   \tabskip \z@ \cr}
419 \endgroup
420 \@arrayleft
421 \if #1\vtop \else \if#1b\vbox \else \vcenter \fi \fi
422 \bgroup
423 \let \@sharp ##\let \protect \relax
424 \lineskip \z@
425 \baselineskip \z@
426 \mathsurround \z@
427 \let\\\@arraycr \let\tabularnewline\\\let\par\@empty
428 \if@RTLtab\hbox\bgroup\beginR\@hboxRconstructtrue\if #1\vtop \else \vbox \fi\bgroup\fi
429 \UseTaggingSocket{tbl/init}
430 \@preamble
431 }
432 \ExplSyntaxOff
433 \let\@array\@array
434 \ExplSyntaxOn
435 \def\endarray {
436   \tbl_crr:n{endarray} \egroup
437   \UseTaggingSocket{tbl/finalize}
438   \tbl_restore_outer_cell_data:
439   \if@RTLtab\egroup\endR\egroup\fi
440   \egroup
441   \@arrayright \gdef\@preamble{}%
442 }
443 \ExplSyntaxOff
444 \def\array{\col@sep\arraycolsep
445   \def\d@llarbegin{${}\let\d@llarend\d@llarbegin\def\@halignto{}}%
446   \@RTLtabfalse\@tabarray}

```

## 9 File article-xetex-bidi.def

```

447 \ProvidesFile{article-xetex-bidi.def}[2025/01/03 v0.8 bidi adaptations for standard article]
448 \IfClassLoadedT{svmult}{\endinput}
449 \if@titlepage
450   \renewcommand\maketitle{\begin{titlepage}%
451     \let\footnotesize\small
452     \let\right@footnoterule\relax
453     \let\left@footnoterule\relax
454     \let\textwidth@footnoterule\relax
455     \let \footnote \thanks
456     \let \LTRfootnote \LTRthanks
457     \let \RTLfootnote \RTLthanks
458     \null\vfil
459     \vskip 60\p@
460     \begin{center}%

```



```

461   {\LARGE \@title \par}%
462   \vskip 3em%
463   {\large
464     \lineskip .75em%
465     \begin{tabular}[t]{c}%
466       \@author
467     \end{tabular}\par}%
468   \vskip 1.5em%
469   {\large \@date \par}%           % Set date in \large size.
470 \end{center}\par
471 \@thanks
472 \vfil\null
473 \end{titlepage}%
474 \setcounter{footnote}{0}%
475 \global\let\thanks\relax
476 \global\let\LTRthanks\relax
477 \global\let\RTLthanks\relax
478 \global\let\maketitle\relax
479 \global\let\@thanks\@empty
480 \global\let\@author\@empty
481 \global\let\@date\@empty
482 \global\let\@title\@empty
483 \global\let\title\relax
484 \global\let\author\relax
485 \global\let\date\relax
486 \global\let\and\relax
487 }
488 \else
489 \renewcommand\maketitle{\par
490   \begingroup
491     \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
492     \def\@makefnmark{\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
493     \long\def\@makefntext##1{\parindent 1em\noindent
494       \hb@xt@1.8em{%
495         \hss\@textsuperscript{\normalfont\@thefnmark}}##1}%
496     \if@twocolumn
497       \ifnum \col@number=\@one
498         \@maketitle
499       \else
500         \twocolumn[\@maketitle]%
501       \fi
502     \else
503       \newpage
504       \global\@topnum\z@   % Prevents figures from going at top of page.
505       \@maketitle
506     \fi
507     \thispagestyle{plain}\@thanks
508   \endgroup
509   \setcounter{footnote}{0}%
510   \global\let\thanks\relax
511   \global\let\LTRthanks\relax
512   \global\let\RTLthanks\relax
513   \global\let\maketitle\relax
514   \global\let\@maketitle\relax

```



```

515 \global\let\thanks\@empty
516 \global\let\author\@empty
517 \global\let\@date\@empty
518 \global\let\@title\@empty
519 \global\let\title\relax
520 \global\let\author\relax
521 \global\let\date\relax
522 \global\let\and\relax
523 }
524 \def\@maketitle{%
525 \newpage
526 \null
527 \vskip 2em%
528 \begin{center}%
529 \let \footnote \thanks
530 \let \LTRfootnote \LTRthanks
531 \let \RTLfootnote \RTLthanks
532 {\LARGE \@title \par}%
533 \vskip 1.5em%
534 {\large
535 \lineskip .5em%
536 \begin{tabular}[t]{c}%
537 \@author
538 \end{tabular}\par}%
539 \vskip 1em%
540 {\large \@date}%
541 \end{center}%
542 \par
543 \vskip 1.5em}
544 \fi
545 \renewcommand*\l@part[2]{%
546 \ifnum \c@tocdepth >-2\relax
547 \addpenalty\@secpenalty
548 \addvspace{2.25em \@plus\p@}%
549 \setlength\@tempdima{3em}%
550 \begingroup
551 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
552 \parfillskip -\@pnumwidth
553 {\leavevmode
554 \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
555 \nobreak
556 \if@compatibility
557 \global\@nobreaktrue
558 \everypar{\global\@nobreakfalse\everypar{}}%
559 \fi
560 \endgroup
561 \fi}
562 \renewcommand*\l@section[2]{%
563 \ifnum \c@tocdepth >\z@
564 \addpenalty\@secpenalty
565 \addvspace{1.0em \@plus\p@}%
566 \setlength\@tempdima{1.5em}%
567 \begingroup
568 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth

```





```

569     \parfillskip -\@pnumwidth
570     \leavevmode \bfseries
571     \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
572     \hskip -\if@RTL\rightskip\else\leftskip\fi
573     #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
574   \endgroup
575 \fi}
576 \renewcommand\left@footnoterule{%
577   \kern-3\p@
578   \hrule\@width.4\columnwidth
579   \kern2.6\p@}
580 \renewcommand\right@footnoterule{%
581   \kern-3\p@
582   \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
583   \kern2.6\p@}
584 \renewcommand\thesubsection {\thesection\@SepMark\@arabic\c@subsection}
585 \renewcommand\thesubsubsection{\thesubsection\@SepMark\@arabic\c@subsubsection}
586 \renewcommand\theparagraph {\thesubsubsection\@SepMark\@arabic\c@paragraph}
587 \renewcommand\thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}
588 \def\@part[#1]#2{%
589   \ifnum \c@secnumdepth >\m@ne
590     \refstepcounter{part}%
591     \addcontentsline{toc}{part}{\thepart\hspace{1em}#1}%
592   \else
593     \addcontentsline{toc}{part}{#1}%
594   \fi
595   {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi
596     \interlinepenalty \@M
597     \normalfont
598     \ifnum \c@secnumdepth >\m@ne
599       \Large\bfseries \partname\nobreakspace\thepart
600     \par\nobreak
601     \fi
602     \huge \bfseries #2%
603     \markboth{}{\par}%
604     \nobreak
605     \vskip 3ex
606     \@afterheading}
607 \bidi@patchcmd\@spart\raggedright{%
608   \if@RTL\raggedleft\else\raggedright\fi
609 }{}{\bidi@warningnoline{Oops! patching `string\@spart' failed}}
610 \renewenvironment{thebibliography}[1]
611   {\section*{\refname}%
612     \@mkboth{\MakeUppercase\refname}{\MakeUppercase\refname}%
613     \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
614     \bidi@@thebibliography@font@hook%
615     \list{\@biblabel{\@arabic\c@enumiv}}%
616       {\settowidth\labelwidth{\@biblabel{#1}}%
617         \leftmargin\labelwidth
618         \advance\leftmargin\labelsep
619         \@openbib@code
620         \usecounter{enumiv}%
621         \let\p@enumiv\@empty
622         \renewcommand\theenumiv{\@arabic\c@enumiv}}%

```



```

623     \sloppy
624     \clubpenalty4000
625     \@clubpenalty \clubpenalty
626     \widowpenalty4000%
627     \sfcode`\.\@m}
628     {\def\@noitemerr
629       {\@latex@warning{Empty `thebibliography' environment}}}%
630     \endlist}
631 \renewenvironment{theindex}
632     {\if@twocolumn
633       \@restonecolfalse
634     \else
635       \@restonecoltrue
636     \fi
637     \columnseprule \z@
638     \columnsep 35\p@
639     \twocolumn[\section*{\indexname}]%
640     \@mkboth{\MakeUppercase\indexname}%
641             {\MakeUppercase\indexname}%
642     \thispagestyle{plain}\parindent\z@
643     \parskip\z@ \@plus .3\p@\relax
644     \let\item\@idxitem}
645     {\if@restonecol\onecolumn\else\clearpage\fi}

```

## 10 File `artikel1-xetex-bidi.def`

```

646 \ProvidesFile{artikel1-xetex-bidi.def}[2017/06/09 v0.4 bidi adaptations for artikel1 class f
647 \renewenvironment{theindex}{%
648   \if@twocolumn
649     \@restonecolfalse
650   \else
651     \@restonecoltrue
652   \fi
653   \columnseprule \z@
654   \columnsep 35\p@
655   \twocolumn[\section*{\indexname}]%
656   \@mkboth{\MakeUppercase{\indexname}}{\MakeUppercase{\indexname}}%
657   \thispagestyle{plain}\parindent\z@
658   \parskip\z@ \@plus .3\p@\relax
659   \let\item\@idxitem
660 }{%
661   \if@restonecol\onecolumn\else\clearpage\fi}
662 \renewcommand*\head@style{%
663   \interlinepenalty \@M
664   \hyphenpenalty=\@M \exhyphenpenalty=\@M
665   \if@RTL\leftskip\else\rightskip\fi=0cm plus .7\hsize\relax}
666 \if@titlepage
667   \renewenvironment{abstract}{%
668     \titlepage
669     \null\vfil
670     \section*{\SectFont\abstractname}
671     \noindent\ignorespaces}
672   {\par\vfil\null\endtitlepage}
673 \else

```



```

674 \renewenvironment{abstract}{%
675     \if@twocolumn
676         \section*{\abstractname}%
677     \else
678         \bgroup\if@RTL\leftskip\else\rightskip\fi=\unitindent
679         \section*{\small\SectFont\abstractname}%
680         \noindent\ignorespaces
681     \fi}
682     {\if@twocolumn\else\par\egroup\fi}
683 \fi
684 \renewcommand*\@regtocline[3]{%
685     \ifnum #1>\c@tocdepth
686     \else
687         \vskip\z@\@plus.2\p@
688         {\hangindent\z@ \@afterindenttrue \interlinepenalty\@M
689         \if@RTL\rightskip\else\leftskip\fi\unitindent
690         \if@RTL\leftskip\else\rightskip\fi\unitindent\@plus 1fil
691         \parfillskip\z@
692         \@tempdima\unitindent
693         \parindent\z@
694         \leavevmode
695         \hbox{} \hskip -\if@RTL\rightskip\else\leftskip\fi\relax#2\nobreak
696         \hskip 1em \nobreak{\slshape #3}\par
697     }%
698     \fi}
699 \if@oldtoc
700 \renewcommand*\l@part[2]{%
701     \ifnum \c@tocdepth >-2\relax
702         \addpenalty\@secpenalty
703         \addvspace{2.25em \@plus\p@}%
704         \begingroup
705             \setlength\@tempdima{3em}%
706             \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
707             \parfillskip -\@pnumwidth
708             {\leavevmode
709             \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
710             \nobreak
711             \if@compatibility
712             \global\@nobreaktrue
713             \everypar{\global\@nobreakfalse\everypar{}}%
714         \fi
715     \endgroup
716     \fi}
717 \else
718     \renewcommand*\l@part{%
719         \ifnum \c@tocdepth >-2\relax
720             \addpenalty\@secpenalty
721             \addvspace{2.25em \@plus \p@}%
722             \@regtocline{0}%
723         \fi}
724 \fi
725 \if@oldtoc
726 \renewcommand*\l@section[2]{%
727     \addpenalty\@secpenalty

```



```

728 \addvspace{1.0em \@plus\p@}%
729 \setlength\@tempdima{1.5em}%
730 \begingroup
731 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
732 \parfillskip -\@pnumwidth
733 \leavevmode \bfseries
734 \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
735 \hskip -\if@RTL\rightskip\else\leftskip\fi
736 #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
737 \endgroup}
738 \else
739 \renewcommand*\l@section{\@regtocline{1}}
740 \fi
741 \renewcommand*\thesubsection{\thesection\@SepMark\@arabic\c@subsection}
742 \renewcommand*\thesubsubsection{\thesubsection\@SepMark\@arabic\c@subsubsection}
743 \renewcommand*\theparagraph{\thesubsubsection\@SepMark\@arabic\c@paragraph}
744 \renewcommand*\thesubparagraph{\theparagraph\@SepMark\@arabic\c@subparagraph}
745 \renewenvironment{thebibliography}[1]
746 {\section*\refname}%
747 \mkboth{\MakeUppercase\refname}{\MakeUppercase\refname}%
748 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
749 \bidi\@thebibliography@font@hook%
750 \list{\@biblabel{\@arabic\c@enumiv}}%
751 {\settowidth\labelwidth{\@biblabel{#1}}%
752 \leftmargin\labelwidth
753 \advance\leftmargin\labelsep
754 \@openbib@code
755 \usecounter{enumiv}%
756 \let\p@enumiv\@empty
757 \renewcommand*\theenumiv{\@arabic\c@enumiv}}%
758 \sloppy\clubpenalty4000\widowpenalty4000%
759 \sfcode\.\@m}
760 {\def\@noitemerr
761 {\@latex@warning{Empty `thebibliography' environment}}}%
762 \endlist}
763 \renewcommand*\left@footnoterule{%
764 \kern-3\p@
765 \kern.5\baselineskip
766 \hrule\@width\unitindent
767 \kern.4\baselineskip
768 }
769 \renewcommand*\right@footnoterule{%
770 \kern-3\p@
771 \kern.5\baselineskip
772 \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\unitindent\relax \hrulefill }
773 \kern.4\baselineskip}
774 \if@titlepage
775 \renewcommand*\TitleFont{\rmfamily}
776 \renewcommand*\maketitle{%
777 \begin{titlepage}%
778 \let\footnotesize\small
779 \let\right@footnoterule\relax
780 \let\left@footnoterule\relax
781 \let\textwidth\footnoterule\relax

```



```

782 \let \footnote \thanks
783 \long\def\@makefntext##1{\parindent\z@
784 \def\labelitemi{\textendash}\@revlabeltrue
785 \leavevmode\@textsuperscript{\@thefnmark}\kern1em\relax ##1}
786 \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
787 \if@compatibility\setcounter{page}{0}\fi
788 \null\vfil
789 \vskip 60\p@
790 \begin{center}%
791 \TitleFont
792 {\LARGE \def\{\penalty -\@M}
793 \if@allcaps
794 \expandafter\uc@nothanks\@title\thanks\relax
795 \else
796 \@title
797 \fi\par}%
798 \vskip 3em%
799 {\large
800 \lineskip .75em \parindent\z@
801 \begin{tabular}[t]{c}%
802 \if@allcaps
803 \expandafter\uc@authornothanks\@author\and\relax
804 \else
805 \@author
806 \fi
807 \end{tabular}\par}%
808 \vskip 1.5em%
809 {\large
810 \if@allcaps
811 \uppercase\expandafter{\@date}%
812 \else
813 \@date
814 \fi\par}%
815 \end{center}\par
816 \@thanks
817 \vfil\null
818 \end{titlepage}%
819 \setcounter{footnote}{0}%
820 \global\let\thanks\relax
821 \global\let\maketitle\relax
822 \global\let\@thanks\@empty
823 \global\let\@author\@empty
824 \global\let\@title\@empty
825 \global\let\@date\@empty
826 \global\let\title\relax
827 \global\let\author\relax
828 \global\let\date\relax
829 \global\let\and\relax
830 }
831 \def\uc@nothanks#1\thanks{\uppercase{#1}\futurelet\@tempa\uc@tx}
832 \def\uc@authornothanks#1\and{\uc@nothanks#1\thanks\relax
833 \futurelet\@tempa\uc@ax}
834 \def\uc@ax{%
835 \ifx\@tempa\relax

```



```

836 \else
837   \ \ \andname \ \ \expandafter\uc@authornothanks
838 \fi}
839 \def\uc@tx{\ifx\@tempa\relax
840   \else \expandafter\uc@ty \fi}
841 \def\uc@ty#1{\thanks{#1}\uc@nothanks}
842 \else
843 \renewcommand*\maketitle{\par
844 \begin{group}
845   \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
846   \def\@makefnmark{\rlap{%
847     \@textsuperscript{\normalfont\@thefnmark}}}%
848   \long\def\@makefntext{\@xmakefntext{%
849     \@textsuperscript{\normalfont\@thefnmark}}}%
850   \if@twocolumn
851     \ifnum \col@number=\@ne
852       \@maketitle
853     \else
854       \twocolumn[\@maketitle]%
855     \fi
856   \else
857     \newpage
858     \global\@topnum\z@
859     \@maketitle
860   \fi
861   \thispagestyle{plain}\@thanks
862 \end{group}
863 \setcounter{footnote}{0}%
864 \global\let\thanks\relax
865 \global\let\maketitle\relax
866 \global\let\@maketitle\relax
867 \global\let\@thanks\@empty
868 \global\let\@author\@empty
869 \global\let\@title\@empty
870 \global\let\@date\@empty
871 \global\let\title\relax
872 \global\let\author\relax
873 \global\let\date\relax
874 \global\let\and\relax
875 }
876 \def\@maketitle{%
877 \newpage
878 \null
879 \vskip 2em%
880 \begin{center}%
881   \let \footnote \thanks
882   {\LARGE \TitleFont \@title \par}%
883   \vskip 1.5em%
884   {\large \TitleFont
885     \lineskip .5em%
886     \begin{tabular}[t]{c}%
887       \@author
888     \end{tabular}\par}%
889   \vskip 1em%

```



```

890   {\large \TitleFont \@date}%
891 \end{center}%
892 \par
893 \vskip 1.5em}
894 \fi

```

## 11 File artikel2-xetex-bidi.def

```

895 \ProvidesFile{artikel2-xetex-bidi.def}[2017/06/09 v0.4 bidi adaptations for artikel2 class f
896 \renewenvironment{theindex}{%
897   \if@twocolumn
898     \@restonecolfalse
899   \else
900     \@restonecoltrue
901   \fi
902   \columnseprule \z@
903   \columnsep 35\p@
904   \twocolumn[\section*{\indexname}]%
905   \@mkboth{\MakeUppercase{\indexname}}{\MakeUppercase{\indexname}}%
906   \thispagestyle{plain}\parindent\z@
907   \parskip\z@ \@plus .3\p@\relax
908   \let\item\@idxitem
909   }{%
910   \if@restonecol\onecolumn\else\clearpage\fi}
911 \renewcommand*{\@regtocline}[3]{%
912   \ifnum #1>\c@tocdepth
913   \else
914     \vskip\z@ \@plus .2\p@
915     {\hangindent\z@ \@afterindenttrue \interlinepenalty\@M
916     \if@RTL\righskip\else\leftskip\fi\unitindent
917     \if@RTL\leftskip\else\righskip\fi\unitindent \@plus 1fil
918     \parfillskip\z@
919     \@tempdima\unitindent
920     \advance\@tempdima by \othermargin
921     \parindent\z@
922     \leavevmode
923     \hbox{} \hskip -\if@RTL\righskip\else\leftskip\fi\relax#2\nobreak
924     \hskip 1em \nobreak{\slshape #3}\par
925   }%
926 \fi}
927 \if@oldtoc
928 \renewcommand*\l@section[2]{%
929   \addpenalty\@secpenalty
930   \addvspace{1.0em \@plus\p@}%
931   \setlength\@tempdima{1.5em}%
932   \begingroup
933   \parindent \z@ \if@RTL\leftskip\else\righskip\fi \@pnumwidth
934   \parfillskip -\@pnumwidth
935   \leavevmode \bfseries
936   \advance\if@RTL\righskip\else\leftskip\fi\@tempdima
937   \hskip -\if@RTL\righskip\else\leftskip\fi
938   #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
939   \endgroup}
940 \else

```



```

941 \renewcommand*\l@section{\@regtocline{1}}
942 \fi
943 \if@oldtoc
944 \renewcommand*\l@part[2]{%
945 \ifnum \c@tocdepth >-2\relax
946 \addpenalty\@secpenalty
947 \addvspace{2.25em \@plus\p@}%
948 \begingroup
949 \setlength\@tempdima{3em}%
950 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
951 \parfillskip -\@pnumwidth
952 {\leavevmode
953 \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
954 \nobreak
955 \if@compatibility
956 \global\@nobreaktrue
957 \everypar{\global\@nobreakfalse\everypar{}}%
958 \fi
959 \endgroup
960 \fi}
961 \else
962 \renewcommand*\l@part{%
963 \ifnum \c@tocdepth >-2\relax
964 \addpenalty\@secpenalty
965 \addvspace{2.25em \@plus\p@}%
966 \@regtocline{0}%
967 \fi}
968 \fi
969 \renewcommand*\head@style{%
970 \interlinepenalty \@M
971 \hyphenpenalty=\@M \exhyphenpenalty=\@M
972 \if@RTL\leftskip\else\rightskip\fi=0cm plus .7\hsize\relax}
973 \if@titlepage
974 \renewenvironment{abstract}{%
975 \titlepage
976 \null\vfil
977 \section*{\SectFont\abstractname}%
978 \noindent\ignorespaces}
979 {\par\vfil\null\endtitlepage}
980 \else
981 \renewenvironment{abstract}{%
982 \if@twocolumn
983 \section*{\abstractname}%
984 \else
985 \section*{\hskip\unitindent\small\SectFont\abstractname}%
986 \list*{\setlength\listparindent{\unitindent}%
987 \setlength\parindent {\z@}%
988 \setlength\leftmargin {\unitindent}%
989 \setlength\rightmargin {\unitindent}%
990 \setlength\parsep {\z@}}%
991 \item[]%
992 \fi}
993 {\if@twocolumn\else\par\endlist\fi}
994 \fi

```





```

995 \renewcommand*\thesubsection{\thesection\@SepMark\@arabic\c@subsection}
996 \renewcommand*\thesubsubsection{\thesubsection\@SepMark\@arabic\c@subsubsection}
997 \renewcommand*\theparagraph{\thesubsubsection\@SepMark\@arabic\c@paragraph}
998 \renewcommand*\thesubparagraph{\theparagraph\@SepMark\@arabic\c@subparagraph}
999 \renewcommand*\left@footnoterule{%
1000 \kern-3\p@
1001 \hrule\@width 3\unitindent
1002 \kern 2.6\p@
1003 }
1004 \renewcommand*\right@footnoterule{%
1005 \kern-3\p@
1006 \hbox to \columnwidth{\hskip \dimexpr\columnwidth-3\unitindent\relax \hrulefill }
1007 \kern 2.6\p@}
1008 \renewenvironment{thebibliography}[1]
1009   {\section*\refname}%
1010   \mkboth{\MakeUppercase\refname}{\MakeUppercase\refname}%
1011   \ifRTL\ifLTRbibitems\@RTLfalse\else\fi\else\ifRTLBibitems\@RTLtrue\else\fi\fi
1012   \bidi@thebibliography@font@hook%
1013   \list{\@biblabel{\@arabic\c@enumiv}}%
1014     {\settowidth\labelwidth{\@biblabel{#1}}%
1015     \leftmargin\labelwidth
1016     \advance\leftmargin\labelsep
1017     \@openbib@code
1018     \usecounter{enumiv}%
1019     \let\p@enumiv\@empty
1020     \renewcommand*\theenumiv{\@arabic\c@enumiv}}%
1021   \sloppy\clubpenalty4000\widowpenalty4000%
1022   \sfcode\.\@m}
1023   {\def\@noitemerr
1024     {\@latex@warning{Empty `thebibliography' environment}}}%
1025   \endlist}
1026 \if@titlepage
1027 \renewcommand*\TitleFont{\rmfamily}
1028 \renewcommand*\maketitle{%
1029 \begin{titlepage}%
1030 \let\footnotesize\small
1031 \let\right@footnoterule\relax
1032 \let\left@footnoterule\relax
1033 \let\textwidth@footnoterule\relax
1034 \let \footnote \thanks
1035 \long\def\@makefntext##1{\parindent\z@
1036 \def\labelitemi{\textendash}\@revlabeltrue
1037 \leavevmode\@textsuperscript{\@thefnmark}\kern1em\relax ##1}
1038 \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
1039 \if@compatibility\setcounter{page}{0}\fi
1040 \null\vfil
1041 \vskip 60\p@
1042 \begin{center}%
1043 \TitleFont
1044 {\LARGE \def\{\{\penalty -\@M}
1045 \if@allcaps
1046 \expandafter\uc@nothanks\@title\thanks\relax
1047 \else
1048 \@title

```



```

1049     \fi\par}%
1050     \vskip 3em%
1051     {\large
1052     \lineskip .75em \parindent\z@
1053     \begin{tabular}[t]{c}%
1054     \if@allcaps
1055     \expandafter\uc@authornothanks \@author\and\relax
1056     \else
1057     \@author
1058     \fi
1059     \end{tabular}\par}%
1060     \vskip 1.5em%
1061     {\large
1062     \if@allcaps
1063     \uppercase\expandafter{\@date}%
1064     \else
1065     \@date
1066     \fi\par}%
1067     \end{center}\par
1068     \@thanks
1069     \vfil\null
1070 \end{titlepage}%
1071 \setcounter{footnote}{0}%
1072 \global\let\thanks\relax
1073 \global\let\maketitle\relax
1074 \global\let\@thanks\@empty
1075 \global\let\@author\@empty
1076 \global\let\@title\@empty
1077 \global\let\@date\@empty
1078 \global\let\title\relax
1079 \global\let\author\relax
1080 \global\let\date\relax
1081 \global\let\and\relax
1082 }
1083 \def\uc@nothanks#1\thanks{\uppercase{#1}\futurelet\@tempa\uc@tx}
1084 \def\uc@authornothanks#1\and{\uc@nothanks#1\thanks\relax
1085     \futurelet\@tempa\uc@ax}
1086 \def\uc@ax{%
1087     \ifx\@tempa\relax
1088     \else
1089     \ \andname \ \ \expandafter\uc@authornothanks
1090     \fi}
1091 \def\uc@tx{\ifx\@tempa\relax
1092     \else \expandafter\uc@ty \fi}
1093 \def\uc@ty#1{\thanks{#1}\uc@nothanks}
1094 \else
1095 \renewcommand*\maketitle{\par
1096     \begingroup
1097     \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
1098     \long\def\@makefntext##1{\parindent\z@
1099     \def\labelitemi{\textendash}%
1100     \leavevmode\hb@xt@.5\unitindent{%
1101     \@textsuperscript{\normalfont\@thefnmark}\hfil}##1}
1102     \iftwocolumn

```



```

1103     \ifnum \col@number=\@ne
1104         \@maketitle
1105     \else
1106         \twocolumn[\@maketitle]%
1107     \fi
1108 \else
1109     \newpage
1110     \global\@topnum\z@
1111     \@maketitle
1112 \fi
1113 \thispagestyle{plain}\@thanks
1114 \endgroup
1115 \setcounter{footnote}{0}%
1116 \global\let\thanks\relax
1117 \global\let\maketitle\relax
1118 \global\let\@maketitle\relax
1119 \global\let\@thanks\@empty
1120 \global\let\@author\@empty
1121 \global\let\@title\@empty
1122 \global\let\@date\@empty
1123 \global\let\title\relax
1124 \global\let\author\relax
1125 \global\let\date\relax
1126 \global\let\and\relax
1127 }
1128 \def\@maketitle{%
1129     \newpage
1130     \null
1131     \vskip 2em%
1132     \begin{center}%
1133         \let \footnote \thanks
1134         {\LARGE \TitleFont \@title \par}%
1135         \vskip 1.5em%
1136         {\large \TitleFont
1137             \lineskip .5em%
1138             \begin{tabular}[t]{c}%
1139                 \@author
1140             \end{tabular}\par}%
1141         \vskip 1em%
1142         {\large \TitleFont \@date}%
1143     \end{center}%
1144     \par
1145     \vskip 1.5em}
1146 \fi

```

## 12 File artikel3-xetex-bidi.def

```

1147 \ProvidesFile{artikel3-xetex-bidi.def}[2017/06/09 v0.5 bidi adaptations for artikel3 class f
1148 \renewenvironment{theindex}{%
1149     \if@twocolumn
1150         \@restonecolfalse
1151     \else
1152         \@restonecoltrue
1153     \fi

```



```

1154 \columnseprule \z@
1155 \columnsep 35\p@
1156 \twocolumn[\section*{\indexname}]%
1157 \@mkboth{\MakeUppercase{\indexname}}{\MakeUppercase{\indexname}}%
1158 \thispagestyle{plain}\parindent\z@
1159 \parskip\z@ \@plus .3\p@\relax
1160 \let\item\@idxitem
1161 }{%
1162 \if@restonecol\onecolumn\else\clearpage\fi}
1163 \renewcommand*\head@style{%
1164   \interlinepenalty \@M
1165   \hyphenpenalty=\@M \exhyphenpenalty=\@M
1166   \if@RTL\leftskip\else\rightskip\fi=0cm plus .7\hsize\relax}
1167 \renewcommand*\@regtocoline[3]{%
1168   \ifnum #1>\c@tocdepth
1169   \else
1170     \vskip\z@\@plus.2\p@
1171     {\hangindent\z@ \@afterindenttrue \interlinepenalty\@M
1172     \if@RTL\rightskip\else\leftskip\fi\unitindent
1173     \if@RTL\leftskip\else\rightskip\fi\unitindent\@plus 1fil
1174     \parfillskip\z@
1175     \@tempdima\unitindent
1176     \parindent\z@
1177     \leavevmode
1178     \hbox{} \hskip -\if@RTL\rightskip\else\leftskip\fi\relax#2\nobreak
1179     \hskip 1em \nobreak{\slshape #3}\par
1180     }%
1181   \fi}
1182 \if@oldtoc
1183 \renewcommand*\l@part[2]{%
1184   \ifnum \c@tocdepth >-2\relax
1185     \addpenalty\@secpenalty
1186     \addvspace{2.25em \@plus\p@}%
1187     \begingroup
1188       \setlength\@tempdima{3em}%
1189       \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
1190       \parfillskip -\@pnumwidth
1191       {\leavevmode
1192         \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
1193         \nobreak
1194         \if@compatibility
1195           \global\@nobreaktrue
1196           \everypar{\global\@nobreakfalse\everypar{}}%
1197       \fi
1198     \endgroup
1199   \fi}
1200 \else
1201 \renewcommand*\l@part{%
1202   \ifnum \c@tocdepth >-2\relax
1203     \addpenalty\@secpenalty
1204     \addvspace{2.25em \@plus \p@}%
1205     \@regtocoline{0}%
1206   \fi}
1207 \fi

```



```

1208
1209 \if@oldtoc
1210 \renewcommand*\l@section[2]{%
1211     \addpenalty\@secpenalty
1212     \addvspace{1.0em \@plus\p@}%
1213     \setlength\@tempdima{1.5em}%
1214     \begingroup
1215     \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
1216     \parfillskip -\@pnumwidth
1217     \leavevmode \bfseries
1218     \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima
1219     \hskip -\if@RTL\rightskip\else\leftskip\fi
1220     #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
1221     \endgroup}
1222 \else
1223     \renewcommand*\l@section{\@regtocline{1}}
1224 \fi
1225 \if@titlepage
1226 \renewenvironment{abstract}{%
1227     \titlepage
1228     \null\vfil
1229     \section*\SectFont\abstractname}%
1230     \noindent\ignorespaces}
1231     {\par\vfil\null\endtitlepage}
1232 \else
1233 \renewenvironment{abstract}{%
1234     \if@twocolumn
1235         \section*\abstractname}%
1236     \else
1237         \bgroup\if@RTL\leftskip\else\rightskip\fi=\unitindent
1238         \section*\small\SectFont\abstractname}%
1239     \noindent\ignorespaces
1240     \fi}
1241     {\if@twocolumn\else\par\egroup\fi}
1242 \fi
1243 \renewcommand*\left@footnoterule{%
1244     \kern-3\p@
1245     \kern.5\baselineskip
1246     \hrule\@width\unitindent
1247     \kern.4\baselineskip
1248 }
1249 \renewcommand*\right@footnoterule{%
1250     \kern-3\p@
1251     \kern.5\baselineskip
1252     \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\unitindent\relax \hrulefill }
1253     \kern.4\baselineskip}
1254 \renewcommand*\thesubsection{\thesection\@SepMark\@arabic\c@subsection}
1255 \renewcommand*\thesubsubsection{\thesubsection\@SepMark\@arabic\c@subsubsection}
1256 \renewcommand*\theparagraph{\thesubsubsection\@SepMark\@arabic\c@paragraph}
1257 \renewcommand*\thesubparagraph{\theparagraph\@SepMark\@arabic\c@subparagraph}
1258 \renewenvironment{thebibliography}[1]
1259     {\section*\refname}%
1260     \mkboth{\MakeUppercase\refname}{\MakeUppercase\refname}%
1261     \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi

```



```

1262 \bidi@thebibliography@font@hook%
1263 \list{\@biblabel{\@arabic\c@enumiv}}%
1264   {\settowidth\labelwidth{\@biblabel{#1}}%
1265   \leftmargin\labelwidth
1266   \advance\leftmargin\labelsep
1267   \@openbib@code
1268   \usecounter{enumiv}}%
1269   \let\p@enumiv\@empty
1270   \renewcommand*\theenumiv{\@arabic\c@enumiv}}%
1271 \sloppy\clubpenalty4000\widowpenalty4000%
1272 \sfcode`. \@m}
1273 {\def\@noitemerr
1274  {\@latex@warning{Empty `thebibliography' environment}}}%
1275 \endlist}
1276 \if@titlepage
1277 \renewcommand*\TitleFont{\rmfamily}
1278 \renewcommand*\maketitle{%
1279 \begin{titlepage}%
1280 \let\footnotesize\small
1281 \let\right@footnoterule\relax
1282 \let\left@footnoterule\relax
1283 \let\textwidth@footnoterule\relax
1284 \let \footnote \thanks
1285 \long\def\@makefnctext##1{\parindent\z@
1286   \def\labelitemi{\textendash}\@revlabeltrue
1287   \leavevmode\@textsuperscript{\@thefnmark}\kern1em\relax ##1}
1288 \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
1289 \if@compatibility\setcounter{page}{0}\fi
1290 \null\vfil
1291 \vskip 60\p@
1292 \begin{center}%
1293 \TitleFont
1294 {\LARGE \def\{\{\penalty -\@M}
1295 \if@allcaps
1296 \expandafter\uc@nothanks\@title\thanks\relax
1297 \else
1298 \@title
1299 \fi\par}%
1300 \vskip 3em%
1301 {\large
1302 \lineskip .75em \parindent\z@
1303 \begin{tabular}[t]{c}%
1304 \if@allcaps
1305 \expandafter\uc@authornothanks\@author\and\relax
1306 \else
1307 \@author
1308 \fi
1309 \end{tabular}\par}%
1310 \vskip 1.5em%
1311 {\large
1312 \if@allcaps
1313 \uppercase\expandafter{\@date}%
1314 \else
1315 \@date

```



```

1316     \fi\par}%
1317     \end{center}\par
1318     \@thanks
1319     \vfil\null
1320 \end{titlepage}%
1321 \setcounter{footnote}{0}%
1322 \global\let\thanks\relax
1323 \global\let\maketitle\relax
1324 \global\let\@thanks\@empty
1325 \global\let\@author\@empty
1326 \global\let\@title\@empty
1327 \global\let\@date\@empty
1328 \global\let\title\relax
1329 \global\let\author\relax
1330 \global\let\date\relax
1331 \global\let\and\relax
1332 }
1333 \def\uc@nothanks#1\thanks{\uppercase{#1}\futurelet\@tempa\uc@tx}
1334 \def\uc@authornothanks#1\and{\uc@nothanks#1\thanks\relax
1335     \futurelet\@tempa\uc@ax}
1336 \def\uc@ax{%
1337     \ifx\@tempa\relax
1338     \else
1339         \ \andname \ \expandafter\uc@authornothanks
1340     \fi}
1341 \def\uc@tx{\ifx\@tempa\relax
1342     \else \expandafter\uc@ty \fi}
1343 \def\uc@ty#1{\thanks{#1}\uc@nothanks}
1344 \else
1345 \renewcommand*\maketitle{\par
1346     \begingroup
1347     \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
1348     \def\@makefnmark{\rlap{%
1349         \@textsuperscript{\normalfont\@thefnmark}}}%
1350     \long\def\@makefntext{\@xmakefntext{%
1351         \@textsuperscript{\normalfont\@thefnmark}}}%
1352     \if@twocolumn
1353         \ifnum \col@number=\@one
1354             \@maketitle
1355         \else
1356             \twocolumn[\@maketitle]%
1357         \fi
1358     \else
1359         \newpage
1360         \global\@topnum\z@
1361         \@maketitle
1362     \fi
1363     \thispagestyle{plain}\@thanks
1364 \endgroup
1365 \setcounter{footnote}{0}%
1366 \global\let\thanks\relax
1367 \global\let\maketitle\relax
1368 \global\let\@maketitle\relax
1369 \global\let\@thanks\@empty

```



```

1370 \global\let\@author\@empty
1371 \global\let\@title\@empty
1372 \global\let\@date\@empty
1373 \global\let\title\relax
1374 \global\let\author\relax
1375 \global\let\date\relax
1376 \global\let\and\relax
1377 }
1378 \def\@maketitle{%
1379 \newpage
1380 \null
1381 \vskip 2em%
1382 \if@titlecentered
1383 \begin{center}%
1384 \let \footnote \thanks
1385 {\LARGE \TitleFont \@title \par}%
1386 \vskip 1.5em%
1387 {\large \TitleFont
1388 \lineskip .5em%
1389 \begin{tabular}[t]{c}%
1390 \@author
1391 \end{tabular}\par}%
1392 \vskip 1em%
1393 {\large \TitleFont \@date}%
1394 \end{center}%
1395 \else
1396 {\LARGE \TitleFont \head@style \@title \par} \vskip 1.5em
1397 {\large \TitleFont \lineskip .5em \tabcolsep\z@
1398 \def\and{%% \begin{tabular} has already started
1399 \end{tabular}\hskip 1em plus .17fil
1400 \if@RTL\begin{tabular}[t]{r}\else\begin{tabular}[t]{l}\fi}% \end{tabu
1401 \if@RTL\begin{tabular}[t]{r}\else\begin{tabular}[t]{l}\fi\@author\end{tabular}\
1402 \vskip 1em {\large \TitleFont \@date}
1403 \fi
1404 \par
1405 \vskip 1.5em}
1406 \fi

```

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

```

1407 \ProvidesFile{arydshln-xetex-bidi.def}[2025/01/03 v0.3 bidi adaptations for arydshln package]
1408 \def\endarray{\adl@endarray \egroup \adl@arrayrestore \if@RTLtab\egroup\endR\egroup\fi\egroup}
1409 \def\endtabular{\endarray $\if@RTLtab\endR\fi\egroup}
1410 \expandafter\let\csname endtabular*\endcsname\endtabular
1411 \let\adl@array\@array
1412 \def\@array{\adl@everyvbox\everyvbox
1413 \everyvbox{\adl@arrayinit \the\adl@everyvbox \everyvbox\adl@everyvbox}%
1414 \ifadl@inactive \adl@inactivate \else \adl@activate \fi
1415 \let\adl@noalign\noalign
1416 \adl@array}
1417 \ifadl@usingarypkg
1418 \def\@testpach{\@chclass
1419 \ifnum \@lastchclass=6 \@ne \@chnum \@ne \else
1420 \ifnum \@lastchclass=7 5 \else

```





```

1421 \ifnum \@lastchclass=8 \tw@ \else
1422 \ifnum \@lastchclass=9 \thr@@
1423 \else \z@
1424 \ifnum \@lastchclass = 10 \else
1425 \edef\@nextchar{\expandafter\string\@nextchar}%
1426 \@chnum
1427 \if \@nextchar c\z@ \else
1428 \if \@nextchar \if@RTLtab r\else l\fi\@ne \else
1429 \if \@nextchar \if@RTLtab l\else r\fi\tw@ \else
1430 \z@ \@chclass
1431 \if\@nextchar |\@ne \let\@arrayrule\adl@arrayrule \else
1432 \if\@nextchar :\@ne \let\@arrayrule\adl@arraydashrule \else
1433 \if\@nextchar ;\@ne \let\@arrayrule\adl@argarraydashrule \else
1434 \if \@nextchar !6 \else
1435 \if \@nextchar @7 \else
1436 \if \@nextchar <8 \else
1437 \if \@nextchar >9 \else
1438 10
1439 \@chnum
1440 \if \@nextchar m\thr@@\else
1441 \if \@nextchar p4 \else
1442 \if \@nextchar b5 \else
1443 \z@ \@chclass \z@ \@preamerr \z@ \fi \fi \fi \fi \fi \fi
1444 \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi}
1445
1446 \def\@classz{\@classx
1447 \tempcnta \count@
1448 \prepnext@tok
1449 \@addtopreamble{\ifcase \@chnum
1450 \hfil
1451 \adl@putlrc{\d@llarbegin \insert@column \d@llarend}\hfil \or
1452 \hskip1sp\adl@putlrc{\d@llarbegin \insert@column \d@llarend}\hfil \or
1453 \hfil\hskip1sp\adl@putlrc{\d@llarbegin \insert@column \d@llarend}\or
1454 \setbox\adl@box\hbox \adl@startmbox{\@nextchar}\insert@column
1455 \adl@endmbox\or
1456 \setbox\adl@box\vtop \@startpbox{\@nextchar}\insert@column \@endpbox \or
1457 \setbox\adl@box\vbox \@startpbox{\@nextchar}\insert@column \@endpbox
1458 \fi}\prepnext@tok}
1459 \def\adl@class@start{4}
1460 \def\adl@class@iiiorvii{7}
1461
1462 \else
1463 \def\@testpach#1{\@chclass \ifnum \@lastchclass=\tw@ 4\relax \else
1464 \ifnum \@lastchclass=\thr@@ 5\relax \else
1465 \z@ \if #1c\@chnum \z@ \else
1466 \if \if@RTLtab#1r\else#1l\fi\@chnum \@ne \else
1467 \if \if@RTLtab#1l\else#1r\fi\@chnum \tw@ \else
1468 \@chclass
1469 \if #1|\@ne \let\@arrayrule\adl@arrayrule \else
1470 \if #1:\@ne \let\@arrayrule\adl@arraydashrule \else
1471 \if #1;\@ne \let\@arrayrule\adl@argarraydashrule \else
1472 \if #1@\tw@ \else
1473 \if #1p\thr@@ \else \z@ \@preamerr 0\fi
1474 \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi}

```



```

1475
1476 \def \@arrayclassz{\ifcase \@lastchclass \@acolampacol \or \@ampacol \or
1477     \or \or \@addamp \or
1478     \@acolampacol \or \@firstampfalse \@acol \fi
1479 \edef \@preamble{\@preamble
1480     \ifcase \@chnum
1481     \hfil\adl@putlrc{\$ \relax \@sharp$}\hfil
1482     \or \adl@putlrc{\$ \relax \@sharp$}\hfil
1483     \or \hfil\adl@putlrc{\$ \relax \@sharp$}\fi}}
1484 \def \@tabclassz{\ifcase \@lastchclass \@acolampacol \or \@ampacol \or
1485     \or \or \@addamp \or
1486     \@acolampacol \or \@firstampfalse \@acol \fi
1487 \edef \@preamble{\@preamble
1488     \ifcase \@chnum
1489     \hfil\adl@putlrc{\@sharp\unskip}\hfil
1490     \or \adl@putlrc{\@sharp\unskip}\hfil
1491     \or \hfil\hskip\z@ \adl@putlrc{\@sharp\unskip}\fi}}
1492 \def \adl@class@start{6}
1493 \def \adl@class@iiiorvii{3}
1494 \fi
1495 \ApplyPatchCodeToPackage{colortbl}{%
1496 \def \adl@inactivate{\adl@org@inactivate \let\CT@setup\adl@CT@setup}
1497 \def \adl@activate{\adl@org@activate \let\CT@setup\adl@act@CT@setup
1498     \let\@endpbox\adl@org@endpbox}
1499 \let \adl@CT@setup\CT@setup
1500 \def \CT@setup{\adl@CT@setup
1501     \@tempdima\ht\z@ \advance\@tempdima\minrowclearance
1502     \ifdim\adl@height<\@tempdima \global\adl@height\@tempdima \fi
1503     \ifdim\adl@depth<\dp\z@ \global\adl@depth\dp\z@\fi}
1504 \let \adl@act@CT@setup\CT@setup
1505 \def \@classz{\@classx
1506     \@tempcnta\count@ \prepnext@tok
1507     \expandafter\CT@extract\the\toks\@tempcnta\columncolor!\@nil
1508     \expandafter\adl@extract@arc\the\toks\@tempcnta\arrayrulecolor!\@nil
1509     \expandafter\adl@extract@drsc
1510     \the\toks\@tempcnta\doublerulesepcolor!\@nil
1511     \expandafter\adl@extract@dgc\the\toks\@tempcnta\dashgapcolor!\@nil
1512     \@addtopreamble{\if@RTL\beginL\fi%
1513     \setbox\z@\hbox\bgroup\bgroup\if@RTL\beginR\fi
1514     \ifcase \@chnum
1515     \hskip\stretch{.5}\kern\z@
1516     \d@llarbegin
1517     \insert@column
1518     \d@llarend\hskip\stretch{.5}%
1519     \or \d@llarbegin \insert@column \d@llarend \hfill
1520     \or \hfill \kern\z@ \d@llarbegin \insert@column \d@llarend
1521     \or $\vcenter
1522     \@startpbox{\@nextchar}\insert@column \@endpbox $%
1523     \or \vtop \@startpbox{\@nextchar}\insert@column \@endpbox
1524     \or \vbox \@startpbox{\@nextchar}\insert@column \@endpbox
1525     \fi
1526     \if@RTL\endR\fi\egroup\egroup
1527     \begingroup
1528     \CT@setup

```



```

1529             \CT@column@color
1530             \CT@row@color
1531             \CT@cell@color
1532             \CT@do@color
1533         \endgroup
1534         \@tempdima\ht\z@
1535         \advance\@tempdima\minrowclearance
1536         \vrule\@height\@tempdima\@width\z@
1537         \unhbox\z@\if@RTL\endL\fi}%
1538     \prepnext@tok}
1539 \let\adl@act@classz\@classz
1540 \let\adl@org@classz\@classz
1541 }

```

## 14 File beamer-xetex-bidi.def

```

1542 \ProvidesFile{beamer-xetex-bidi.def}[2022/06/07 v0.3 bidi adaptations for beamer class for X
1543 \AtBeginDocument{%
1544   \if@RTLmain
1545     \raggedleft
1546   \else
1547     \raggedright
1548   \fi
1549 }
1550
1551 \renewcommand*{\bidi@beamer@ragged}{%
1552   \if@RTL
1553     \raggedleft
1554   \else
1555     \raggedright
1556   \fi
1557 }
1558
1559

```

## 15 File beamerbaseauxtemplates-xetex-bidi.def

```

1560 \ProvidesFile{beamerbaseauxtemplates-xetex-bidi.def}[2025/01/03 v0.5 bidi adaptations for be
1561 \bidi@csundef{beamer@tmpop@subsection in toc@sections numbered}
1562
1563 \bidi@csundef{beamer@tmpop@subsubsection in toc@sections numbered}
1564
1565 \bidi@csundef{beamer@tmpop@section in toc@subsections numbered}
1566
1567 \bidi@csundef{beamer@tmpop@subsection in toc@subsections numbered}
1568
1569 \bidi@csundef{beamer@tmpop@subsubsection in toc@subsections numbered}
1570
1571 \defbeamertemplate{subsection in toc}{sections numbered}
1572 {\leavevmode\bidi@beamer@leftskip=2.5em\inserttocsubsection\par}
1573
1574 \defbeamertemplate{subsubsection in toc}{sections numbered}
1575 {\leavevmode\normalsize\usebeamerfont{subsection in toc}\bidi@beamer@leftskip=3.5em\usebeame
1576 \inserttocsubsubsection\par}

```



```

1577
1578 \defbeamertemplate{section in toc}{subsections numbered}
1579 {\leavevmode\ bidi@beamer@leftskip=2em\inserttocsection\par}
1580
1581 \defbeamertemplate{subsection in toc}{subsections numbered}
1582 {\leavevmode\ bidi@beamer@leftskip=2em\rlap{\hskip-2em\inserttocsectionnumber.\inserttocsubse
1583
1584 \defbeamertemplate{subsubsection in toc}{subsections numbered}
1585 {\leavevmode\normalsize\usebeamerfont{subsection in
1586   toc}\ bidi@beamer@leftskip=3em\usebeamerfont{subsubsection in toc}}%
1587   \inserttocsubsubsection\par}
1588
1589 \bidi@csundef{beamer@@tmpop@section in toc@circle}
1590
1591 \bidi@csundef{beamer@@tmpop@subsection in toc@circle}
1592
1593 \bidi@csundef{beamer@@tmpop@subsubsection in toc@circle}
1594
1595 \defbeamertemplate{section in toc}{circle}
1596 {\leavevmode\ bidi@beamer@leftskip=2ex%
1597   \llap{%
1598     \usebeamerfont*{section number projected}}%
1599     \usebeamerfont*{section number projected}}%
1600   \begin{pgfpicture}{-1ex}{0ex}{1ex}{2ex}
1601     \color{bg}
1602     \pgfpathcircle{\pgfpoint{0pt}{.75ex}}{1.2ex}
1603     \pgfusepath{fill}
1604     \pgftext[base]{\color{fg}\inserttocsectionnumber}
1605   \end{pgfpicture}\kern1.25ex%
1606 }%
1607 \inserttocsection\par}
1608
1609 \defbeamertemplate{subsection in toc}{circle}
1610 {\leavevmode\ bidi@beamer@leftskip=2em\inserttocsubsection\par}
1611
1612 \defbeamertemplate{subsubsection in toc}{circle}
1613 {\leavevmode\normalsize\usebeamerfont{subsection in
1614   toc}\ bidi@beamer@leftskip=3em\usebeamerfont{subsubsection in toc}}%
1615   \inserttocsubsubsection\par}
1616
1617 \bidi@csundef{beamer@@tmpop@section in toc@square}
1618
1619 \bidi@csundef{beamer@@tmpop@subsection in toc@square}
1620
1621 \bidi@csundef{beamer@@tmpop@subsubsection in toc@square}
1622
1623 \bidi@csundef{beamer@@tmpop@enumerate item@square}
1624
1625 \bidi@csundef{beamer@@tmpop@enumerate subitem@square}
1626
1627 \bidi@csundef{beamer@@tmpop@enumerate subsubitem@square}
1628
1629 \bidi@csundef{beamer@@tmpop@enumerate mini template@square}
1630

```



```

1631 \defbeamertemplate{section in toc}{square}
1632 {\leavevmode\ bidi@beamer@leftskip=3ex%
1633   \llap{%
1634     \usebeamerfont*{section number projected}%
1635     \usebeamercolor[bg]{section number projected}%
1636     \if@RTL
1637     \else
1638       \vrule width2.25ex height1.85ex depth.4ex%
1639       \hskip-2.25ex%
1640     \fi
1641     \hbox to2.25ex{{\hfil\color{fg}\inserttocsectionnumber\hfil}}%
1642     \if@RTL
1643       \hskip-2.25ex%
1644       \vrule width2.25ex height1.85ex depth.4ex%
1645     \fi
1646   }\kern1.25ex}%
1647 \inserttocsection\par}
1648
1649 \defbeamertemplate{subsection in toc}{square}
1650 {\leavevmode\ bidi@beamer@leftskip=5ex\llap{%
1651   \usebeamercolor[bg]{subsection number projected}%
1652   \vrule width1ex height1ex\kern1ex}}\inserttocsubsection\par}
1653
1654 \defbeamertemplate{subsubsection in toc}{square}
1655 {\leavevmode\normalsize\usebeamerfont{subsection in
1656   toc}\ bidi@beamer@leftskip=7ex\usebeamerfont{subsubsection in toc}%
1657   \llap{%
1658     \usebeamercolor[bg]{subsubsection number projected}%
1659     \vrule width0.75ex height0.75ex\kern1ex}}\inserttocsubsubsection\par}
1660
1661 \defbeamertemplate{enumerate item}{square}
1662 {
1663   \hbox{%
1664     \usebeamerfont*{item projected}%
1665     \usebeamercolor[bg]{item projected}%
1666     \if@RTL
1667     \else
1668       \vrule width2.25ex height1.85ex depth.4ex%
1669       \hskip-2.25ex%
1670     \fi
1671     \hbox to2.25ex{%
1672       \hfil%
1673       \color{fg}\insertenumlabel%
1674       \hfil}}%
1675     \if@RTL
1676       \hskip-2.25ex%
1677       \vrule width2.25ex height1.85ex depth.4ex%
1678     \fi
1679   }}%
1680 }
1681 [action]
1682 {\setbeamerfont{item projected}{size=\scriptsize}}
1683
1684 \defbeamertemplate{enumerate subitem}{square}

```



```

1685 {
1686   \hbox{%
1687     \usebeamerfont*{subitem projected}%
1688     \usebeamercolor[bg]{subitem projected}%
1689     \if@RTL
1690     \else
1691       \vrule width2.25ex height1.85ex depth.4ex%
1692       \hskip-2.25ex%
1693     \fi
1694     \hbox to2.25ex{%
1695       \hfil%
1696       \color{fg}\insertsubenumlabel%
1697       \hfil}}%
1698     \if@RTL
1699       \hskip-2.25ex%
1700       \vrule width2.25ex height1.85ex depth.4ex%
1701     \fi
1702   }}%
1703 }
1704
1705 \defbeamertemplate{enumerate subsubitem}{square}
1706 {
1707   \hbox{%
1708     \usebeamerfont*{subitem projected}%
1709     \usebeamercolor[bg]{subsubitem projected}%
1710     \if@RTL
1711     \else
1712       \vrule width2.25ex height1.85ex depth.4ex%
1713       \hskip-2.25ex%
1714     \fi
1715     \hbox to2.25ex{%
1716       \hfil%
1717       \color{fg}\insertsubsubenumlabel%
1718       \hfil}}%
1719     \if@RTL
1720       \hskip-2.25ex%
1721       \vrule width2.25ex height1.85ex depth.4ex%
1722     \fi
1723   }}%
1724 }
1725
1726 \defbeamertemplate{enumerate mini template}{square}
1727 {
1728   \hbox{%
1729     \usebeamerfont*{\beameritemnestingprefix item projected}%
1730     \usebeamercolor[bg]{\beameritemnestingprefix item projected}%
1731     \if@RTL
1732     \else
1733       \vrule width2.25ex height1.85ex depth.4ex%
1734       \hskip-2.25ex%
1735     \fi
1736     \hbox to2.25ex{%
1737       \hfil%
1738       \color{fg}\insertenumlabel%

```



```

1739     \hfil}}%
1740     \if@RTL
1741         \hskip-2.25ex%
1742         \vrule width2.25ex height1.85ex depth.4ex%
1743     \fi
1744 }}%
1745 }
1746
1747 \bidi@csundef{beamer@@tmpop@section in toc@ball unnumbered}
1748
1749 \bidi@csundef{beamer@@tmpop@subsection in toc@ball unnumbered}
1750
1751 \bidi@csundef{beamer@@tmpop@subsubsection in toc@ball unnumbered}
1752
1753 \defbeamertemplate{section in toc}{ball unnumbered}
1754 {\leavevmode\bidi@beamer@leftskip=2.25ex%
1755  \llap{%
1756   \raise0.1ex\beamer@usesphere{section number projected}{bigosphere}\kern1.25ex}%
1757  \inserttocsection\par}
1758
1759 \defbeamertemplate{subsection in toc}{ball unnumbered}
1760 {\leavevmode\bidi@beamer@leftskip=5.1ex\llap{%
1761   \raise0.2ex\beamer@usesphere{subsection number projected}{smallsphere}\kern1ex}\inserttocsection\par}
1762
1763 \defbeamertemplate{subsubsection in toc}{ball unnumbered}
1764 {\leavevmode\normalsize\usebeamerfont{subsection in
1765  toc}\bidi@beamer@leftskip=8.2ex\usebeamerfont{subsubsection in toc}%
1766  \llap{%
1767   \beamer@usesphere{subsubsection number projected}{smallsphere}\kern0.75ex}\inserttocsection\par}
1768
1769 \bidi@csundef{beamer@@tmpop@section in toc@ball}
1770
1771 \bidi@csundef{beamer@@tmpop@subsection in toc@ball}
1772
1773 \bidi@csundef{beamer@@tmpop@subsubsection in toc@ball}
1774
1775 \defbeamertemplate{section in toc}{ball}
1776 {\leavevmode\bidi@beamer@leftskip=2.75ex%
1777  \llap{%
1778   \normalsize%
1779   \begin{pgfpicture}{-1ex}{-0.7ex}{1ex}{1ex}
1780     \pgftext{\beamer@usesphere{section number projected}{tocsphere}}
1781     \pgftext{%
1782       \usebeamerfont*{section number projected}%
1783       \usebeamerfont{section number projected}%
1784       \color{fg!90!bg}%
1785       \inserttocsectionnumber}
1786     \end{pgfpicture}%
1787   \kern1.25ex}%
1788  \inserttocsection\par}
1789 }
1790 [action]
1791 {\setbeamerfont{section number projected}{size=\scriptsize}}
1792

```



```

1793 \defbeamerteremplate{subsection in toc}{ball}
1794 {\leavevmode\bidibeamer@leftskip=5ex%
1795 \llap{\raise0.1ex\beamer@usesphere{subsection number projected}{bigsphere}\kern1ex}%
1796 \inserttocsubsection\par%
1797 }
1798
1799 \defbeamerteremplate{subsubsection in toc}{ball}
1800 {\leavevmode\normalsize\usebeamerfont{subsection in
1801 toc}\bidibeamer@leftskip=7ex\usebeamerfont{subsubsection in toc}%
1802 \llap{\beamer@usesphere{subsubsection number projected}{bigsphere}\kern0.75ex}%
1803 \inserttocsubsubsection\par%
1804 }
1805
1806 \bidi@csundef{beamer@@tmpop@block begin@rounded}
1807
1808 \bidi@csundef{beamer@@tmpop@block alerted begin@rounded}
1809
1810 \bidi@csundef{beamer@@tmpop@block example begin@rounded}
1811
1812 \defbeamerteremplate{block begin}{rounded}[1][shadow=false]
1813 {%
1814 \par\vskip\medskipamount%
1815 \begin{beamerboxesrounded}[upper=block title,lower=block body,#1]%
1816 {\raggedright\usebeamerfont*{block title}\insertblocktitle}%
1817 \bidi@beamer@ragged%
1818 \usebeamerfont{block body}%
1819 }
1820
1821 \defbeamerteremplate{block alerted begin}{rounded}[1][shadow=false]
1822 {%
1823 \par\vskip\medskipamount%
1824 \begin{beamerboxesrounded}[upper=block title alerted,lower=block body alerted,#1]%
1825 {\raggedright\usebeamerfont*{block title alerted}\insertblocktitle}%
1826 \bidi@beamer@ragged%
1827 \usebeamerfont{block body alerted}%
1828 }%
1829
1830 \defbeamerteremplate{block example begin}{rounded}[1][shadow=false]
1831 {%
1832 \par\vskip\medskipamount%
1833 \begin{beamerboxesrounded}[upper=block title example,lower=block body example,#1]
1834 {\raggedright\usebeamerfont*{block title example}\insertblocktitle}%
1835 \bidi@beamer@ragged%
1836 \usebeamerfont{block body example}%
1837 }%
1838
1839 \bidi@csundef{beamer@@tmpop@caption@numbered}
1840
1841 \defbeamerteremplate{caption}{numbered}
1842 {%
1843 \leavevmode
1844 \bidi@beamer@ragged
1845 {%
1846 \usebeamercolor[fg]{caption name}%

```





```

1847 \usebeamerfont*{caption name}%
1848 \insertcaptionname~\insertcaptionnumber
1849 \usebeamerfont{caption label separator}%
1850 }%
1851 \insertcaption\par
1852 }
1853
1854 \bidi@csundef{beamer@tmpop@caption@caption name own line}
1855
1856 \defbeamerfont{caption}{caption name own line}
1857 {%
1858 \begin{minipage}{\textwidth}
1859 \leavevmode
1860 \bidi@beamer@ragged
1861 {%
1862 \usebeamerfont[fg]{caption name}%
1863 \usebeamerfont*{caption name}%
1864 \insertcaptionname%
1865 }\\
1866 \insertcaption
1867 \end{minipage}
1868 }
1869
1870 \ApplyPatchCodeToPackage{caption}{%
1871 \DeclareCaptionFont{beamer@font}{%
1872 \usebeamerfont*{caption}%
1873 % \usebeamerfont[fg]{caption}%
1874 }
1875 \SetCaptionDefault{font}{beamer@font}
1876 \DeclareCaptionJustification{bidi@beamer@ragged}{\bidi@beamer@ragged}
1877 \SetCaptionDefault{justification}{bidi@beamer@ragged}
1878 }
1879

```

## 16 File beamerbaseboxes-xetex-bidi.def

```

1880 \ProvidesFile{beamerbaseboxes-xetex-bidi.def}[2022/06/01 v0.1 bidi adaptations for beamerbas
1881 \renewcommand\beamerboxesrounded[2] [] {%
1882 \global\let\beamer@firstlineitemizeunskip=\relax%
1883 \vbox\bgroup%
1884 \setkeys{beamerboxes}{upper=block title,lower=block body,width=\textwidth,shadow=false}%
1885 \setkeys{beamerboxes}{#1}%
1886 {%
1887 \usebeamerfont{\bmb@lower}%
1888 \globalcolorstrue%
1889 \colorlet{lower.bg}{bg}%
1890 }%
1891 {%
1892 \usebeamerfont{\bmb@upper}%
1893 \globalcolorstrue%
1894 \colorlet{upper.bg}{bg}%
1895 }%
1896 %
1897 % Typeset head

```



```

1898 %
1899 \vskip4bp
1900 \setbox\bmb@box=\hbox{%
1901   \begin{minipage}[b]{\bmb@width}%
1902     \usebeamercolor[fg]{\bmb@upper}%
1903     #2%
1904   \end{minipage}}%
1905 \ifdim\wd\bmb@box=0pt%
1906   \setbox\bmb@box=\hbox{}%
1907   \ht\bmb@box=1.5pt%
1908   \bmb@prevheight=-4.5pt%
1909 \else%
1910   \wd\bmb@box=\bmb@width%
1911   \bmb@temp=\dp\bmb@box%
1912   \ifdim\bmb@temp<1.5pt%
1913     \bmb@temp=1.5pt%
1914   \fi%
1915   \setbox\bmb@box=\hbox{\raise\bmb@temp\hbox{\box\bmb@box}}%
1916   \dp\bmb@box=0pt%
1917   \bmb@prevheight=\ht\bmb@box%
1918 \fi%
1919 \bmb@temp=\bmb@width%
1920 \bmb@dima=\bmb@temp\advance\bmb@dima by2.2bp%
1921 \bmb@dimb=\bmb@temp\advance\bmb@dimb by4bp%
1922 \hbox{%
1923   \begin{pgfpicture}{0bp}{+-\ht\bmb@box}{0bp}{+-\ht\bmb@box}
1924     \ifdim\wd\bmb@box=0pt%
1925       \color{lower.bg}%
1926     \else%
1927       \color{upper.bg}%
1928     \fi%
1929     \pgfpathmoveto{-4bp}{-1bp}
1930     \pgfpathqcurveto{-4bp}{1.2bp}{-2.2bp}{3bp}{0bp}{3bp}
1931     \pgfpathlineto{\pgfpoint{\bmb@temp}{3bp}}
1932     \pgfpathcurveto%
1933       {\pgfpoint{\bmb@dima}{3bp}}%
1934       {\pgfpoint{\bmb@dimb}{1.2bp}}%
1935       {\pgfpoint{\bmb@dimb}{-1bp}}%
1936     \bmb@dima=-\ht\bmb@box%
1937     \advance\bmb@dima by-2pt%
1938     \pgfpathlineto{\pgfpoint{\bmb@dimb}{\bmb@dima}}
1939     \pgfpathlineto{\pgfpoint{-4bp}{\bmb@dima}}
1940     \pgfusepath{fill}
1941   \end{pgfpicture}%
1942   \copy\bmb@box%
1943 }%
1944 \nointerlineskip%
1945 \vskip-1pt%
1946 \ifdim\wd\bmb@box=0pt%
1947 \else%
1948 \hbox{%
1949   \begin{pgfpicture}{0pt}{0pt}{\bmb@width}{6pt}
1950     \bmb@dima=\bmb@width%
1951     \advance\bmb@dima by8bp%

```



```

1952     \pgfpathrectangle{\pgfpoint{-4bp}{-1bp}}{\pgfpoint{\bmb@dim}{8bp}}
1953     \pgfusepath{clip}
1954     {\pgftransformshift{\pgfpoint{-4bp}{0bp}}\pgftext[left,base]{\pgfuseshading{\bmb@transi
1955     \end{pgfpicture}%
1956   }%
1957   \nointerlineskip%
1958   \vskip-0.5pt%
1959   \fi%
1960   \setbox\bmb@colorbox=\hbox{\pgfpicturetrue\pgfsetcolor{lower.bg}}}%
1961   \setbox\bmb@box=\hbox\bgroup\begin{minipage}[b]{\bmb@width}%
1962     \vskip2pt%
1963     \usebeamercolor[fg]{\bmb@lower}%
1964     \colorlet{beamerstructure}{upper.bg}%
1965     \colorlet{structure}{upper.bg}%
1966     %\color{.}%
1967     \@bidi@list@minipage@parboxfalse
1968   }
1969
1970 \bidi@patchcmd{\endbeamerboxesrounded}{\begingroup}{%
1971   \begingroup
1972   \@RTLfalse
1973 }{}{}
1974
1975

```

## 17 File beamerbasecolor-xetex-bidi.def

```

1976 \ProvidesFile{beamerbasecolor-xetex-bidi.def}[2022/06/07 v0.2 bidi adaptations for beamerbas
1977 \renewenvironment{beamercolorbox}[2][]{%
1978   \def\beamer@vmode{\leavevmode}%
1979   \setkeys{beamercolbox}{wd=\textwidth,ht={},dp={},%
1980     leftskip=0pt,rightskip=0pt plus1fil,%
1981     sep=0pt,colsep=0pt,colsep*=0pt,%
1982     shadow=false,rounded=false,ignorebg=false}%
1983   \ifRTL
1984     \setkeys{beamercolbox}{rightskip=0pt,leftskip=0pt plus1fil}%
1985   \else
1986     \setkeys{beamercolbox}{leftskip=0pt,rightskip=0pt plus1fil}%
1987   \fi
1988   \setkeys{beamercolbox}{#1}%
1989   \ifbeamercolorempy[bg]{#2}{\@tempwafalse}{\@tempwattrue}%
1990   \ifbeamer@colbox@ignorebg\@tempwafalse\fi%
1991   \def\beamer@colbox@color{#2}%
1992   \setbox\beamer@tempbox=\hbox\bgroup\color@begingroup
1993     \ifbeamer@colbox@ignorebg%
1994       \colorlet{beamer@temp@color}{bg}%
1995       \usebeamercolor[fg]{#2}%
1996       \colorlet{bg}{beamer@temp@color}%
1997     \else%
1998       \usebeamercolor[fg]{#2}%
1999     \fi%
2000   \beginL
2001   \vbox\bgroup%
2002   \hsize=\beamer@colbox@wd%

```



```

2003   \@arrayparboxrestore%
2004   \leftskip=\beamer@colbox@ls%
2005   \ifdim\beamer@colbox@sep>\z@\advance\leftskip\beamer@colbox@sep\fi%
2006   \rightskip=\beamer@colbox@rs%
2007   \ifdim\beamer@colbox@sep>\z@\advance\rightskip\beamer@colbox@sep\fi%
2008   \if@tempswa\ifdim\beamer@colbox@colsep>\z@%
2009     \advance\leftskip by\beamer@colbox@colsep%
2010     \advance\rightskip by\beamer@colbox@colsep%
2011     \vskip\beamer@colbox@colsep%
2012   \fi%
2013   \ifdim\beamer@colbox@colseps>\z@\vskip\beamer@colbox@colseps\fi%
2014   \fi%
2015   \ifdim\beamer@colbox@sep>\z@\vskip\beamer@colbox@sep\fi%
2016   \beamer@vmode\ignorespaces}{%
2017   \ifdim\beamer@colbox@sep>\z@\vskip\beamer@colbox@sep\fi%
2018   \if@tempswa
2019     \ifdim\beamer@colbox@colsep>\z@\vskip\beamer@colbox@colsep\fi%
2020     \ifdim\beamer@colbox@colseps>\z@\vskip\beamer@colbox@colseps\fi%
2021   \fi%
2022 \egroup\endL\color@endgroup\egroup%
2023 \wd\beamer@tempbox=\beamer@colbox@wd%
2024 \ifx\beamer@colbox@ht\@empty\else\ht\beamer@tempbox=\beamer@colbox@ht\fi%
2025 \ifx\beamer@colbox@dp\@empty\else\dp\beamer@tempbox=\beamer@colbox@dp\fi%
2026 \ifbeamer@colbox@rounded%
2027   \if@tempswa%
2028     \begin{beamerboxesrounded}[%
2029       shadow=\beamer@colbox@shadow,%
2030       lower=\beamer@colbox@color,%
2031       upper=normal text,%
2032       width=\beamer@colbox@wd]{}%
2033     \box\beamer@tempbox%
2034     \end{beamerboxesrounded}%
2035   \else%
2036     \ifdim\wd\beamer@tempbox>\textwidth%
2037       \setbox\beamer@tempbox=\hbox to\textwidth{\hss\box\beamer@tempbox\hss}%
2038     \fi%
2039     \box\beamer@tempbox%
2040   \fi%
2041 \else%
2042   \if@tempswa\setbox\beamer@tempbox=\hbox{%
2043     \usebeamercolor{\beamer@colbox@color}%
2044     \hskip-\beamer@colbox@colseps%
2045     \fboxsep=\z@\colorbox{bg}{%
2046       \hskip\beamer@colbox@colseps%
2047       \box\beamer@tempbox%
2048       \hskip\beamer@colbox@colseps%
2049     }%
2050     \hskip-\beamer@colbox@colseps%
2051   }\fi%
2052   \ifdim\wd\beamer@tempbox>\textwidth%
2053     \setbox\beamer@tempbox=\hbox to\textwidth{\hskip0pt minus\beamer@leftmargin\relax\box\
2054   \fi%
2055   \box\beamer@tempbox%
2056 \fi%

```



```
2057 }
2058
2059
```

## 18 File beamerbasecompatibility-xetex-bidi.def

```
2060 \ProvidesFile{beamerbasecompatibility-xetex-bidi.def}[2022/06/27 v0.1 bidi adaptations for b
2061 \def\insertvrule#1#2{\hbox{{\color{#2}\hskip-\Gm@lmargin\vrule width \paperwidth height #1\h
2062
2063
```

## 19 File beamerbaseframecomponents-xetex-bidi.def

```
2064 \ProvidesFile{beamerbaseframecomponents-xetex-bidi.def}[2024/12/28 v0.7 bidi adaptations for
2065 \renewcommand{\setbeamerfont}[1]{%
2066   \beamer@dogeometryfalse%
2067   \setkeys{beamer@margin}{#1}%
2068   \ifbeamer@dogeometry%
2069     % Reset left margin now
2070     \beamer@tempdim=\beamer@leftmargin%
2071     \advance\beamer@tempdim by\beamer@leftsidebar%
2072     \if@RTLmain
2073       \geometry{right=\the\beamer@tempdim}%
2074     \else
2075       \geometry{left=\the\beamer@tempdim}%
2076     \fi
2077     % Reset right margin now
2078     \beamer@tempdim=\beamer@rightmargin%
2079     \advance\beamer@tempdim by\beamer@rightsidebar%
2080     \if@RTLmain
2081       \geometry{left=\the\beamer@tempdim}%
2082     \else
2083       \geometry{right=\the\beamer@tempdim}%
2084     \fi
2085   \fi%
2086 }
2087
2088 \newcommand*\bidi@beamer@Gm@lmargin}{%
2089   \if@RTLmain
2090     \Gm@rmargin
2091   \else
2092     \Gm@lmargin
2093   \fi
2094 }
2095
2096 \newcommand*\bidi@beamer@Gm@rmargin}{%
2097   \if@RTLmain
2098     \Gm@lmargin
2099   \else
2100     \Gm@rmargin
2101   \fi
2102 }
2103
2104 \def\ps@navigation{
```



```

2105 \def\@oddhead{%
2106   \begingroup%
2107   \setbox\beamer@tempbox=\hbox{\usebeamertemplate***{background canvas}\hyper@pagetransiti
2108   \beamer@tempdim=\ht\beamer@tempbox%
2109   \setbox\beamer@tempbox=\hbox{\lower\beamer@tempdim\hbox{\box\beamer@tempbox}}}%
2110   \wd\beamer@tempbox=Opt\ht\beamer@tempbox=Opt\dp\beamer@tempbox=Opt%
2111   \setbox\@tempboxa=\hbox{\usebeamertemplate***{background}}}%
2112   \beamer@tempdim=\ht\@tempboxa%
2113   \setbox\@tempboxa=\hbox{\lower\beamer@tempdim\hbox{\box\@tempboxa}}}%
2114   \wd\@tempboxa=Opt\ht\@tempboxa=Opt\dp\@tempboxa=Opt%
2115   \vbox{\hbox{\hskip-\bidi@beamer@Gm@lmargin\box\beamer@tempbox\box\@tempboxa}}%
2116   \hbox{%
2117     {%
2118       \setbox\beamer@tempbox=\hbox{\hskip-\bidi@beamer@Gm@lmargin%
2119       \ifRTLmain
2120         {%
2121           \vbox to \sidebarheight{%
2122             \usebeamertemplate***{sidebar left}}%
2123             \vfil%
2124           }}%
2125           \ApplyPatchIfPackageLoadedF{beamerinnerthemeinmargin}{%
2126             \hskip-\textwidth
2127           }%
2128           \fi
2129           {\setbox\beamer@tempbox=\hbox{\vbox to \sidebarheight{%
2130             \usebeamercolor*{sidebar left}}%
2131             \usebeamertemplate{sidebar canvas left}}%
2132             \vss%
2133           }}%
2134           \wd\beamer@tempbox=Opt\ht\beamer@tempbox=Opt\dp\beamer@tempbox=Opt%
2135           \box\beamer@tempbox}}%
2136           \ifRTLmain
2137           \else
2138           {%
2139             \vbox to \sidebarheight{%
2140               \usebeamertemplate***{sidebar left}}%
2141               \vfil%
2142             }}\fi}%
2143           \beamer@tempdim=\ht\beamer@tempbox%
2144           \setbox\beamer@tempbox=\hbox{{\lower\beamer@tempdim\hbox{\box\beamer@tempbox}}}%
2145           \wd\beamer@tempbox=Opt\ht\beamer@tempbox=Opt\dp\beamer@tempbox=Opt%
2146           \box\beamer@tempbox%
2147         }%
2148         {% print right sidebar first, since it should be overwritten by headline
2149         \setbox\beamer@tempbox=\hbox{\hskip\textwidth\hskip\beamer@rightmargin%
2150         \ifRTLmain
2151           {%
2152             \vbox to \sidebarheight{%
2153               \usebeamertemplate***{sidebar right}}%
2154               \vfil%
2155             }}%
2156             \hskip-\textwidth
2157           \fi
2158           {\setbox\beamer@tempbox=\hbox{\vbox to \sidebarheight{%

```



```

2159         \usebeamercolor*{sidebar right}%
2160         \usebeamertemplate{sidebar canvas right}%
2161         \vss%
2162     }}%
2163     \wd\beamer@tempbox=0pt\ht\beamer@tempbox=0pt\dp\beamer@tempbox=0pt%
2164     \box\beamer@tempbox}%
2165     \if@RTLmain
2166     \else
2167     {%
2168         \vbox to \sidebarheight{%
2169             \usebeamertemplate***{sidebar right}%
2170             \vfil%
2171         }}\fi}%
2172     \beamer@tempdim=\ht\beamer@tempbox%
2173     \setbox\beamer@tempbox=\hbox{{\lower\beamer@tempdim\hbox{\box\beamer@tempbox}}}%
2174     \wd\beamer@tempbox=0pt\ht\beamer@tempbox=0pt\dp\beamer@tempbox=0pt%
2175     \box\beamer@tempbox%
2176     }%
2177     \beamer@typesetheadorfoot{headline}%
2178     }%
2179     \hfil}%
2180 \endgroup}
2181 \def\@oddfoot{%
2182     \vbox{\offinterlineskip\hbox{\beamer@typesetheadorfoot{footline}%
2183     \hfil}\hbox{}}\hfil
2184     }%
2185 \let\@evenhead\@oddhead
2186 \let\@evenfoot\@oddfoot}
2187
2188 \AtBeginDocument{%
2189     \pagestyle{navigation}%
2190 }
2191
2192 \def\beamer@typesetheadorfoot#1{% typeset the head or footline
2193     {\parskip0pt\offinterlineskip%
2194         \hbox{%
2195             \hskip-\bidi@beamer@Gm@lmargin%
2196             \hbox{%
2197                 \vbox{%
2198                     \@tempdima=\textwidth%
2199                     \textwidth=\paperwidth%
2200                     \hsize=\textwidth%
2201                     \def\{\,%
2202                         \usebeamertemplate***{#1}%
2203                     }}%
2204                 \hskip-\bidi@beamer@Gm@rmargin%
2205             }}\hfil%
2206     }
2207
2208 \def\ps@empty{%
2209     \let\@mkboth\@gobbletwo%
2210     \def\@oddhead{\beginingroup%
2211         \setbox\beamer@tempbox=\hbox{\usebeamertemplate***{background canvas}\hyper@pagetransiti
2212         \beamer@tempdim=\ht\beamer@tempbox%

```



```

2213 \setbox\beamer@tempbox=\hbox{\lower\beamer@tempdim\hbox{\box\beamer@tempbox}}%
2214 \wd\beamer@tempbox=Opt\ht\beamer@tempbox=Opt\dp\beamer@tempbox=Opt%
2215 \setbox\@tempboxa=\hbox{\usebeamer-template***{background}}%
2216 \beamer@tempdim=\ht\@tempboxa%
2217 \setbox\@tempboxa=\hbox{\lower\beamer@tempdim\hbox{\box\@tempboxa}}%
2218 \wd\@tempboxa=Opt\ht\@tempboxa=Opt\dp\@tempboxa=Opt%
2219 \vbox{\hbox{\hskip-\Gm@lmargin\raise\headheight\box\beamer@tempbox\raise\headheight\box\
2220 \endgroup%
2221 }
2222 \def\@oddfont{\normalcolor\hfil%
2223 \setbox\beamer@tempbox=\hbox{\usebeamer-template***{navigation symbols}\hskip-\bidi@beame
2224 \ht\beamer@tempbox=Opt%
2225 \dp\beamer@tempbox=Opt%
2226 \box\beamer@tempbox}}
2227 \let\@evenhead\@oddhead\let\@evenfoot\@oddfont}
2228
2229 \renewenvironment<>{beamer@columnenv}[2][\beamer@colmode]{%
2230 \beamer@colclose\def\beamer@colclose{%
2231 \begin{actionenv}#3%
2232 \setkeys{beamer@col}{#1}%
2233 \begin{minipage}[\beamer@colalign]{#2}%
2234 \leavevmode\bidi@beamer@ragged\beamer@colheadskip\ignorespaces}
2235 {end{minipage}\hfill\end{actionenv}}\@ignoretrue}
2236 \let\endcolumn\endbeamer@columnenv
2237
2238 \renewcommand<>\beamer@columncom[2][\beamer@colmode]{%
2239 \beamer@colclose%
2240 \def\beamer@colclose{end{minipage}\hfill\end{actionenv}\ignorespaces}%
2241 \begin{actionenv}#3%
2242 \setkeys{beamer@col}{#1}%
2243 \begin{minipage}[\beamer@colalign]{#2}%
2244 \leavevmode\bidi@beamer@ragged\beamer@colheadskip\ignorespaces}
2245
2246 \renewenvironment<>{columns}[1][]{%
2247 \begin{actionenv}#2%
2248 \ifbeamer@onlytextwidth
2249 \def\beamer@colentrycode{\hbox to\textwidth\bgroup\ignorespaces}%
2250 \def\beamer@colexitcode{\unskip\egroup}
2251 \else%
2252 \def\beamer@colentrycode{%
2253 \hbox to\textwidth\bgroup%
2254 \leavevmode%
2255 \hskip-\beamer@leftmargin%
2256 \nobreak%
2257 \beamer@tempdim=\textwidth%
2258 \advance\beamer@tempdim by\beamer@leftmargin%
2259 \advance\beamer@tempdim by\beamer@rightmargin%
2260 \hbox to\beamer@tempdim\bgroup%
2261 \hbox}\hfill\ignorespaces}%
2262 \def\beamer@colexitcode{\egroup%
2263 \nobreak%
2264 \hskip-\beamer@rightmargin\egroup}%
2265 \fi%
2266 \ifbeamer@centered\setkeys{beamer@col}{c}\else\setkeys{beamer@col}{t}\fi%

```





```

2267 \setkeys{beamer@col}{#1}%
2268 \par%
2269 \leavevmode
2270 \beamer@colentrycode%
2271 \def\beamer@colclose{\ignorespaces}%
2272 {\beamer@colclose\def\beamer@colclose{\beamer@colclose}\end{actionenv}}%
2273
2274
2275 \def\@makeRTLfnntext#1{%
2276 \def\insertfootnotetext{#1}%
2277 \def\insertfootnotemark{\@makefnmark}%
2278 \usebeamertemplate***{RTLfootnote}}
2279
2280 \def\@makeLTRfnntext#1{%
2281 \def\insertfootnotetext{#1}%
2282 \def\insertfootnotemark{\@makefnmark}%
2283 \usebeamertemplate***{LTRfootnote}}
2284
2285 \renewcommand<>\beamer@framefootnotetext[1]{%
2286 \global\setbox\beamer@footins\vbox{%
2287 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
2288 \hsize\framewidth
2289 \textwidth\hsize
2290 \columnwidth\hsize
2291 \unvbox\beamer@footins
2292 \reset@font
2293 \bidi@@footnotetext@font
2294 \@parboxrestore
2295 \protected@edef\@currentlabel
2296 {\csname p@footnote\endcsname\@thefnmark}%
2297 \color@begingroup
2298 \uncover#2{\@makefnntext{%
2299 \rule\z@\footnotesep\ignorespaces#1\@finalstrut\strutbox}}%
2300 \color@endgroup}}
2301
2302 \renewcommand<>\beamer@frameRTLfootnotetext[1]{%
2303 \global\setbox\beamer@footins\vbox{%
2304 \@RTLtrue
2305 \hsize\framewidth
2306 \textwidth\hsize
2307 \columnwidth\hsize
2308 \unvbox\beamer@footins
2309 \reset@font
2310 \bidi@@RTLfootnotetext@font
2311 \@parboxrestore
2312 \protected@edef\@currentlabel
2313 {\csname p@footnote\endcsname\@thefnmark}%
2314 \color@begingroup
2315 \uncover#2{\@makeRTLfnntext{%
2316 \rule\z@\footnotesep\ignorespaces#1\@finalstrut\strutbox}}%
2317 \color@endgroup}}
2318
2319 \renewcommand<>\beamer@frameLTRfootnotetext[1]{%
2320 \global\setbox\beamer@footins\vbox{%

```



```

2321 \@RTLfalse
2322 \hsize\framewidth
2323 \textwidth\hsize
2324 \columnwidth\hsize
2325 \unvbox\beamer@footins
2326 \reset@font
2327 \bidi@@LTRfootnotetext@font
2328 \@parboxrestore
2329 \protected@edef\@currentlabel
2330     {\csname p@footnote\endcsname\@thefnmark}%
2331 \color@begingroup
2332     \uncover#2{\@makeLTRfntext{%
2333         \rule\z@\footnotesep\ignorespaces#1\@finalstrut\strutbox}}%
2334 \color@endgroup}}
2335
2336 \renewcommand<>\@mpfootnotetext[1]{%
2337 \ifbidi@autofooterule\ifnum\c@mpfootnote=\@ne\if@RTL@footnote\global\let\bidi@mpfootnoter
2338 \global\setbox\@mpfootins\vbox{%
2339     \unvbox\@mpfootins
2340     \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
2341     \reset@font
2342     \bidi@@footnotetext@font
2343     \hsize\columnwidth
2344     \@parboxrestore
2345     \protected@edef\@currentlabel
2346         {\csname p@mpfootnote\endcsname\@thefnmark}%
2347     \color@begingroup
2348         \uncover#2{\@makefntext{%
2349             \rule\z@\footnotesep\ignorespaces#1\@finalstrut\strutbox}}%
2350     \color@endgroup}}
2351
2352 \renewcommand<>\@mpRTLfootnotetext[1]{%
2353 \ifbidi@autofooterule\ifnum\c@mpfootnote=\@ne\global\let\bidi@mpfootnoterule\right@footno
2354 \global\setbox\@mpfootins\vbox{%
2355     \unvbox\@mpfootins
2356     \@RTLtrue
2357     \reset@font
2358     \bidi@@RTLfootnotetext@font
2359     \hsize\columnwidth
2360     \@parboxrestore
2361     \protected@edef\@currentlabel
2362         {\csname p@mpfootnote\endcsname\@thefnmark}%
2363     \color@begingroup
2364         \uncover#2{\@makeRTLfntext{%
2365             \rule\z@\footnotesep\ignorespaces#1\@finalstrut\strutbox}}%
2366     \color@endgroup}}
2367
2368 \renewcommand<>\@mpLTRfootnotetext[1]{%
2369 \ifbidi@autofooterule\ifnum\c@mpfootnote=\@ne\global\let\bidi@mpfootnoterule\left@footnot
2370 \global\setbox\@mpfootins\vbox{%
2371     \unvbox\@mpfootins
2372     \@RTLfalse
2373     \reset@font
2374     \bidi@@LTRfootnotetext@font

```



```

2375 \hsize\columnwidth
2376 \@parboxrestore
2377 \protected@edef\@currentlabel
2378   {\csname p@mpfootnote\endcsname\@thefnmark}%
2379 \color@begingroup
2380   \uncover#2{\@makeLTRfntext{%
2381     \rule\z@\footnotesep\ignorespaces#1\@finalstrut\strutbox}}%
2382   \color@endgroup}}
2383
2384 \let\@footnotetext=\beamer@framefootnotetext
2385 \let\@RTLfootnotetext=\beamer@frameRTLfootnotetext
2386 \let\@LTRfootnotetext=\beamer@frameLTRfootnotetext
2387
2388 \footdir@temp\footdir@ORG@bidi@beamer@footnotetext\@footnotetext{\bidi@footdir@footnote}%
2389 \footdir@temp\footdir@ORG@bidi@beamer@RTLfootnotetext\@RTLfootnotetext{R}%
2390 \footdir@temp\footdir@ORG@bidi@beamer@LTRfootnotetext\@LTRfootnotetext{L}%
2391
2392 \renewcommand<>{\footnote}[1] [] {%
2393   \let\beamer@footnotetext=\@footnotetext%
2394   \let\beamer@mpfn=\@mpfn%
2395   \let\beamer@thempfn=\@thempfn%
2396   \let\beamer@kvorig=\KV@errx%
2397   \let\beamer@xkvorig=\XKV@err
2398   \def\beamer@footarg{}%
2399   \def\KV@errx##1{\edef\beamer@footarg{\@tempa}}%
2400   \def\XKV@err##1{\edef\beamer@footarg{\XKV@tkey}}%
2401   \setkeys{beamerfootnote}{#1}%
2402   \let\KV@errx=\beamer@kvorig%
2403   \let\XKV@errx=\beamer@xkvorig
2404   \ifx\beamer@footarg\@empty%
2405     \def\beamer@next{\stepcounter\beamer@mpfn
2406       \protected@xdef\@thefnmark{\beamer@thempfn}%
2407       \@footnotemark\beamer@footnotetext#2}%
2408   \else%
2409     \def\beamer@next{%
2410       \begingroup
2411         \csname c@\beamer@mpfn\endcsname\beamer@footarg\relax
2412         \unrestored@protected@xdef\@thefnmark{\beamer@thempfn}%
2413       \endgroup
2414       \@footnotemark\beamer@footnotetext#2}%
2415   \fi%
2416   \beamer@next}
2417
2418 \renewcommand<>{\RTLfootnote}[1] [] {%
2419   \let\beamer@RTLfootnotetext=\@RTLfootnotetext%
2420   \let\beamer@mpfn=\@mpfn%
2421   \let\beamer@thempfn=\@thempfn%
2422   \let\beamer@kvorig=\KV@errx%
2423   \let\beamer@xkvorig=\XKV@err
2424   \def\beamer@footarg{}%
2425   \def\KV@errx##1{\edef\beamer@footarg{\@tempa}}%
2426   \def\XKV@err##1{\edef\beamer@footarg{\XKV@tkey}}%
2427   \setkeys{beamerfootnote}{#1}%
2428   \let\KV@errx=\beamer@kvorig%

```



```

2429 \let\XKV@errx=\beamer@xkvorig
2430 \ifx\beamer@footarg\@empty%
2431   \def\beamer@next{\stepcounter\beamer@mpfn
2432     \protected@xdef\@thefnmark{\beamer@thempfn}%
2433     \@footnotemark\beamer@RTLfootnotetext#2}%
2434 \else%
2435   \def\beamer@next{%
2436     \begingroup
2437       \csname c@\beamer@mpfn\endcsname\beamer@footarg\relax
2438       \unrestored@protected@xdef\@thefnmark{\beamer@thempfn}%
2439     \endgroup
2440     \@footnotemark\beamer@RTLfootnotetext#2}%
2441 \fi%
2442 \beamer@next}
2443
2444 \renewcommand<>{\LTRfootnote}[1] [] {%
2445   \let\beamer@LTRfootnotetext=\@LTRfootnotetext%
2446   \let\beamer@mpfn=\@mpfn%
2447   \let\beamer@thempfn=\@thempfn%
2448   \let\beamer@kvorig=\KV@errx%
2449   \let\beamer@xkvorig=\XKV@err
2450   \def\beamer@footarg{}%
2451   \def\KV@errx##1{\edef\beamer@footarg{\@tempa}}%
2452   \def\XKV@err##1{\edef\beamer@footarg{\XKV@tkey}}%
2453   \setkeys{beamerfootnote}{#1}%
2454   \let\KV@errx=\beamer@kvorig%
2455   \let\XKV@errx=\beamer@xkvorig
2456   \ifx\beamer@footarg\@empty%
2457     \def\beamer@next{\stepcounter\beamer@mpfn
2458       \protected@xdef\@thefnmark{\beamer@thempfn}%
2459       \@footnotemark\beamer@LTRfootnotetext#2}%
2460   \else%
2461     \def\beamer@next{%
2462       \begingroup
2463         \csname c@\beamer@mpfn\endcsname\beamer@footarg\relax
2464         \unrestored@protected@xdef\@thefnmark{\beamer@thempfn}%
2465       \endgroup
2466       \@footnotemark\beamer@LTRfootnotetext#2}%
2467   \fi%
2468   \beamer@next}
2469
2470

```

## 20 File beamerbaseframesize-xetex-bidi.def

```

2471 \ProvidesFile{beamerbaseframesize-xetex-bidi.def}[2022/06/27 v0.1 bidi adaptations for beamer]
2472 \def\beamer@framezoom<#1><#2>[#3] (#4, #5) (#6, #7){%
2473   \par\nointerlineskip%
2474   \global\beamer@slidehaszoomtrue%
2475   \advance\beamer@zoomcount by1\relax%
2476   \def\beamer@zoomborderwidth{0}%
2477   \edef\beamer@labelzoomed{\beamer@labelzoomed@the\beamer@zoomframecount @the\beamer@zoomcount}
2478   \setkeys{beamerzoom}{#3}%
2479   \only<#1>{%

```



```

2480 {\hypersetup{pdfhighlight={/P},pdfborder={0 0 \beamer@zoomborderwidth}}}%
2481 \global\setbox\@tempboxa=\vbox{\hyperlink{\beamer@labelzoomed}{%
2482   \expandafter\ifx\csname XeTeXrevision\endcsname\relax
2483     \vbox to #7{%
2484       \hbox to#6{\hfil}%
2485       \vfil%
2486     }%
2487   \else%
2488     \begin{group}%
2489     \normalsize%
2490     \begin{pgfpicture}{0pt}{0pt}{#6}{#7}%
2491       \pgfsetfillopacity{0}
2492       \pgftext[x=0cm,y=3pt]{.}
2493       \pgftext[x=#6,y=\dimexpr#7-\baselineskip+3pt]{.}
2494     \end{pgfpicture}%
2495     \endgroup%
2496   \fi%
2497 }}}%
2498 \ht\@tempboxa=0pt%
2499 \wd\@tempboxa=0pt%
2500 \dp\@tempboxa=0pt%
2501 \setbox\@tempboxa=\vbox{\if@RTL\moveleft\else\moveright\fi#4\hbox{\lower#5\vbox{\box\@tempboxa}}%
2502 \ht\@tempboxa=0pt%
2503 \wd\@tempboxa=0pt%
2504 \dp\@tempboxa=0pt%
2505 \global\setbox\beamer@zoombox=\vbox to0pt{\unvbox\beamer@zoombox\box\@tempboxa}%
2506 }%
2507 \only<#2>{%
2508   \ifundefined{\beamer@labelzoomed}%
2509   {%
2510     \hypertarget{\beamer@labelzoomed}{}%
2511     \expandafter\gdef\csname\beamer@labelzoomed\endcsname{}%
2512   }{}%
2513   \gdef\beamer@zoomer{%
2514     % compute zoom factor
2515     \@tempdima=\beamer@frametextheight%
2516     \@tempdimb=#7\relax%
2517     \@tempcnta=\@tempdimb%
2518     \divide\@tempcnta by4096\relax%
2519     \multiply\@tempdima by16\relax%
2520     \divide\@tempdima by\@tempcnta%
2521     \@tempdimb=\paperwidth%
2522     \ifbeamer@plainframe%
2523     \else%
2524       \advance\@tempdimb by-\beamer@leftsidebar%
2525       \advance\@tempdimb by-\beamer@rightsidebar\relax%
2526     \fi%
2527     \@tempdimc=#6\relax%
2528     \@tempcntb=\@tempdimc%
2529     \divide\@tempcntb by4096\relax%
2530     \multiply\@tempdimb by16\relax%
2531     \divide\@tempdimb by\@tempcntb%
2532     \ifdim\@tempdimb<\@tempdima%
2533       \@tempdima=\@tempdimb%

```



```

2534 \fi%
2535 \edef\beamer@temp{\strip@pt\@tempdima}%
2536 \@tempdimc=\beamer@frametextheight%
2537 \advance\@tempdimc by4pt%
2538 \@tempdimb=\paperwidth%
2539 \ifbeamer@plainframe%
2540 \else%
2541 \advance\@tempdimb by-\beamer@leftsidebar%
2542 \advance\@tempdimb by-\beamer@rightsidebar\relax%
2543 \fi%
2544 \setbox\@tempboxa=\vbox{\hsize=\@tempdimb\Acrobatmenu{GoBack}{\vbox to
2545 \beamer@frametextheight{\hbox to\@tempdimb{\hfil}\vfil}}}%
2546 \ht\@tempboxa=0pt%
2547 \wd\@tempboxa=0pt%
2548 \dp\@tempboxa=0pt%
2549 \setbox\beamer@framebox=\vbox to\beamer@frametextheight{%
2550 \ifbeamer@plainframe\beamer@leftmargin=\Gm@lmargin\fi%
2551 \if@RTL
2552 \begin{pgfpicture}{\paperwidth-\beamer@leftmargin}{-\beamer@frametextheight}{\pape
2553 \pgftext [right, top]{\box\@tempboxa}
2554 \pgfpathrectangle{\pgfpoint{0pt}{-\@tempdimc}}{\pgfpoint{\@tempdimb}{\@tempdimc}}
2555 \pgfusepath{clip}
2556 \begingroup
2557 \pgftransformscale{\beamer@temp}
2558 \@tempdima=#4\relax%
2559 \@tempdimb=#5\relax%
2560 {\pgftransformshift{\pgfpoint{\@tempdima+#6}{\@tempdimb}}}%
2561 \pgftext [right, top]{\vbox{\vbox{} \nointerlineskip \unvbox\beamer@framebox}}
2562 \endgroup
2563 \end{pgfpicture}}%
2564 \else
2565 \begin{pgfpicture}{\beamer@leftmargin}{-\beamer@frametextheight}{\beamer@leftmargin
2566 \pgftext [left, top]{\box\@tempboxa}
2567 \pgfpathrectangle{\pgfpoint{0pt}{-\@tempdimc}}{\pgfpoint{\@tempdimb}{\@tempdimc}}
2568 \pgfusepath{clip}
2569 \begingroup
2570 \pgftransformscale{\beamer@temp}
2571 \@tempdima=#4\relax%
2572 \@tempdimb=#5\relax%
2573 {\pgftransformshift{\pgfpoint{-\@tempdima}{\@tempdimb}}}%
2574 \pgftext [left, top]{\vbox{\vbox{} \nointerlineskip \unvbox\beamer@framebox}}
2575 \endgroup
2576 \end{pgfpicture}}%
2577 \fi
2578 }}%
2579 \setbox\beamer@framebox=\vbox{%
2580 \nobreak\vbox{} \nobreak\par \nobreak\beamer@entrycode \nobreak%
2581 \nointerlineskip \unvbox\beamer@frametitlebox%
2582 \nobreak%
2583 \box\beamer@framebox%
2584 \nobreak%
2585 \vss%
2586 \beamer@exitcode%
2587 }%

```



```

2588     \global\setbox\beamer@footins=\box\voidb@x% no footnotes in zoomed slides
2589   }%
2590 }%
2591 }
2592
2593

```

## 21 File beamerbaselocalstructure-xetex-bidi.def

```

2594 \ProvidesFile{beamerbaselocalstructure-xetex-bidi.def}[2022/05/24 v0.1 bidi adaptations for
2595 \def\beamer@enum@{%
2596   \beamer@computepref\@itemdepth% sets \beameritemnestingprefix
2597   \usebeamerfont{itemize/enumerate \beameritemnestingprefix body}%
2598   \bgroup
2599   \usebeamerfont[fg]{itemize/enumerate \beameritemnestingprefix body}%
2600   \usebeamerfont[fg]{itemize/enumerate \beameritemnestingprefix body}%
2601   \egroup
2602   \expandafter
2603     \list
2604       {\usebeamerfont{\beamer@enumtempl}}
2605       {\usecounter\@enumctr%
2606         \def\makelabel##1{\hss\llap{%
2607           \usebeamerfont*{enumerate \beameritemnestingprefix item}%
2608           \usebeamerfont[fg]{enumerate \beameritemnestingprefix item}##1}}}}%
2609   \beamer@cramped%
2610   \bidi@beamer@ragged%
2611   \beamer@firstlineitemizeunskip%
2612 }
2613
2614 \renewcommand{\itemize}[1][\@itemdepth]{%
2615   \ifblank{##1}{\def\beamer@defaulttospec{##1}}%
2616   \ifnum \@itemdepth >2\relax\@toodeep\else
2617     \advance\@itemdepth\@ne
2618     \beamer@computepref\@itemdepth% sets \beameritemnestingprefix
2619     \usebeamerfont{itemize/enumerate \beameritemnestingprefix body}%
2620     \bgroup
2621     \usebeamerfont[fg]{itemize/enumerate \beameritemnestingprefix body}%
2622     \usebeamerfont[fg]{itemize/enumerate \beameritemnestingprefix body}%
2623     \egroup
2624     \list
2625       {\usebeamerfont{itemize \beameritemnestingprefix item}}
2626       {\def\makelabel##1{%
2627         {%
2628           \hss\llap{%
2629             \usebeamerfont*{itemize \beameritemnestingprefix item}%
2630             \usebeamerfont[fg]{itemize \beameritemnestingprefix item}##1}}}}%
2631         }%
2632       }%
2633   }
2634   \fi%
2635   \beamer@cramped%
2636   \bidi@beamer@ragged%
2637   \beamer@firstlineitemizeunskip%
2638 }

```



```

2639
2640 \def\@@description{%
2641   \advance\beamer@descdefault by \labelsep%
2642   \usebeamerfont{description body}%
2643   \bgroup
2644   \usebeamercolor[fg]{description body}%
2645   \usebeamerfont{description body begin}%
2646   \egroup
2647   \list
2648   {}
2649   {\labelwidth\beamer@descdefault\leftmargin\beamer@descdefault\let\makelabel\beamer@descrip
2650   \beamer@cramped%
2651   \bidi@beamer@ragged
2652   \beamer@firstlineitemizeunskip%
2653 }
2654
2655 \renewenvironment{thebibliography}[1]
2656 {%\leavevmode\unskip%
2657 \ifRTL\ifLTRbibitems\@RTLfalse\else\fi\else\ifRTLbibitems\@RTLtrue\else\fi\fi
2658 \bidi@thebibliography@font@hook%
2659 \list{\@biblabel{\@arabic\c@enumiv}}%
2660   {\settowidth\labelwidth{\beamer@biblabeltemplate{\@biblabel{#1}}}%
2661   \leftmargin\labelwidth
2662   \advance\leftmargin\labelsep
2663   \itemsep=0pt%
2664   \partopsep=0pt%
2665   \topsep=0pt%
2666   \usecounter{enumiv}%
2667   \let\p@enumiv\@empty
2668   \renewcommand\theenumiv{\@arabic\c@enumiv}
2669   \let\makelabel\beamer@biblabeltemplate}%
2670   \sloppy\bidi@beamer@ragged
2671   \clubpenalty10000
2672   \@clubpenalty \clubpenalty
2673   \widowpenalty10000%
2674   \sfcode`..\@m}
2675 {\def\@noitemerr
2676   {\@latex@warning{Empty `thebibliography' environment}}%
2677   \ifhmode\unskip\fi\endlist}
2678
2679

```

## 22 File beamerbasemisc-xetex-bidi.def

```

2680 \ProvidesFile{beamerbasemisc-xetex-bidi.def}[2022/06/27 v0.1 bidi adaptations for beamerbase
2681 \define@key{beamerst}{width}{%
2682 \def\beamer@ststart{%
2683   \begin{minipage}[t]{#1}%
2684     \bidi@beamer@ragged
2685     \beamer@stalign
2686     \beamer@stlinebreakrule
2687   }%
2688 \def\beamer@stend{\end{minipage}}
2689

```





## 23 File beamerbasenavigation-xetex-bidi.def

```

2691 \ProvidesFile{beamerbasenavigation-xetex-bidi.def}[2022/06/27 v0.2 bidi adaptations for beamer]
2692 \def\slideentry#1#2#3#4#5#6{%
2693   %section number, subsection number, slide number, first/last frame, page number, part number
2694   \ifnum#6=\c@part\ifnum#1>0\ifnum#3>0%
2695     \ifbeamer@compress%
2696       \advance\beamer@xpos by1\relax%
2697     \else%
2698       \ifnum#2=0%
2699         \beamer@ypos@offset=1\relax%
2700       \fi
2701       \beamer@xpos=#3\relax%
2702       \beamer@ypos=#2\relax%
2703       \advance\beamer@ypos by \beamer@ypos@offset\relax
2704     \fi%
2705   \hbox to 0pt{%
2706     \beamer@tempdim=-\beamer@vboxoffset%
2707     \advance\beamer@tempdim by-\beamer@boxsize%
2708     \multiply\beamer@tempdim by\beamer@ypos%
2709     \advance\beamer@tempdim by -.05cm%
2710     \raise\beamer@tempdim\hbox{%
2711       \beamer@tempdim=\beamer@boxsize%
2712       \multiply\beamer@tempdim by\beamer@xpos%
2713       \advance\beamer@tempdim by -\beamer@boxsize%
2714       \advance\beamer@tempdim by 1pt%
2715       \kern\beamer@tempdim
2716       \global\beamer@section@min@dim\beamer@tempdim
2717       \hbox{\beamer@link(#4){%
2718         \usebeamerfont{mini frame}%
2719         \ifnum\c@section=#1%
2720           \ifnum\c@subsection=#2%
2721             \usebeamercolor[fg]{mini frame}%
2722             \ifnum\c@subsectionslide=#3%
2723               \usebeamertemplate{mini frame}%\beamer@minislidehighlight%
2724             \else%
2725               \usebeamertemplate{mini frame in current subsection}%\beamer@minisliderowhighlight%
2726             \fi%
2727           \else%
2728             \usebeamercolor{mini frame}%
2729             %\color{fg!50!bg}%
2730             \usebeamertemplate{mini frame in other subsection}%\beamer@minislide%
2731           \fi%
2732         \else%
2733           \usebeamercolor{mini frame}%
2734           %\color{fg!50!bg}%
2735           \usebeamertemplate{mini frame in other subsection}%\beamer@minislide%
2736         \fi%
2737       }}}\hskip-10cm plus 1fil%
2738   }\fi\fi%
2739 \else%
2740 \fakeslideentry{#1}{#2}{#3}{#4}{#5}{#6}%

```



```

2741 \fi\ignorespaces
2742 }
2743
2744 \pgfdefobject{bidi@beamer@RTL@gotosymbol}{\pgfpoint{0pt}{-1pt}}{\pgfpoint{5pt}{5pt}}
2745 {
2746 \pgfpathmoveto{3.5bp}{0.5bp}
2747 \pgfpathqlineto{1.5bp}{2bp}
2748 \pgfpathqlineto{3.5bp}{3.5bp}
2749 \pgfusepathqfill
2750 }
2751
2752 \def\insertgotosymbol{%
2753 \if@RTL
2754 \begin{pgfpicture}{-1pt}{0pt}{4pt}{5pt}
2755 \pgfuseobject{bidi@beamer@RTL@gotosymbol}%
2756 \end{pgfpicture}%
2757 \else
2758 \begin{pgfpicture}{1pt}{0pt}{6pt}{5pt}
2759 \pgfuseobject{beamergotosymbol}%
2760 \end{pgfpicture}%
2761 \fi
2762 }
2763
2764 \pgfdefobject{bidi@beamer@RTL@skipsymbol}{\pgfpoint{0pt}{-1pt}}{\pgfpoint{7pt}{5pt}}
2765 {
2766 \pgfpathmoveto{5.5bp}{0.5bp}
2767 \pgfpathqlineto{3.5bp}{2bp}
2768 \pgfpathqlineto{5.5bp}{3.5bp}
2769 \pgfpathmoveto{3.5bp}{0.5bp}
2770 \pgfpathqlineto{1.5bp}{2bp}
2771 \pgfpathqlineto{3.5bp}{3.5bp}
2772 \pgfusepathqfill
2773 }
2774
2775 \def\insertskipsymbol{%
2776 \if@RTL
2777 \begin{pgfpicture}{-1pt}{0pt}{6pt}{5pt}
2778 \pgfuseobject{bidi@beamer@RTL@skipsymbol}%
2779 \end{pgfpicture}%
2780 \else
2781 \begin{pgfpicture}{1pt}{0pt}{8pt}{5pt}
2782 \pgfuseobject{beamerskipsymbol}%
2783 \end{pgfpicture}%
2784 \fi
2785 }
2786
2787 \pgfdefobject{bidi@beamer@RTL@returnsymbol}{\pgfpoint{0pt}{-1pt}}{\pgfpoint{5pt}{5pt}}
2788 {
2789 \pgfpathmoveto{1.5bp}{0.5bp}
2790 \pgfpathqlineto{3.5bp}{2bp}
2791 \pgfpathqlineto{1.5bp}{3.5bp}
2792 \pgfusepathqfill
2793 }
2794

```



```

2795 \def\insertreturnsymbol{%
2796 \if@RTL
2797 \begin{pgfpicture}{-1pt}{0pt}{4pt}{5pt}
2798 \pgfuseobject{bidi@beamer@RTL@returnsymbol}%
2799 \end{pgfpicture}%
2800 \else
2801 \begin{pgfpicture}{1pt}{0pt}{6pt}{5pt}
2802 \pgfuseobject{beamerreturnsymbol}%
2803 \end{pgfpicture}%
2804 \fi
2805 }
2806
2807

```

## 24 File beamerbaseoverlay-xetex-bidi.def

```

2808 \ProvidesFile{beamerbaseoverlay-xetex-bidi.def}[2022/06/10 v0.1 bidi adaptations for beamer]
2809 \renewcommand<>{\color}{\alt#1{\beameroriginal{\color}}{\beamer@gobbleoptionalinsp}}
2810
2811

```

## 25 File beamerinnerthemedefault-xetex-bidi.def

```

2812 \ProvidesFile{beamerinnerthemedefault-xetex-bidi.def}[2022/06/27 v0.6 bidi adaptations for beamer]
2813 \newcommand*{\bidi@beamer@leftskip}{%
2814 \if@RTL
2815 \rightskip
2816 \else
2817 \leftskip
2818 \fi
2819 }
2820
2821 \newcommand*{\bidi@beamer@rightskip}{%
2822 \if@RTL
2823 \leftskip
2824 \else
2825 \rightskip
2826 \fi
2827 }
2828
2829 \bidi@csundef{beamer@tmpop@subsection in toc@default}
2830
2831 \bidi@csundef{beamer@tmpop@subsubsection in toc@default}
2832
2833 \defbeamertemplate*{subsection in toc}{default}
2834 {\leavevmode\bidi@beamer@leftskip=1.5em\inserttocsubsection\par}
2835
2836 \defbeamertemplate*{subsubsection in toc}{default}
2837 {\leavevmode\normalsize\usebeamerfont{subsection in toc}\bidi@beamer@leftskip=3em%
2838 \usebeamerfont{subsubsection in toc}\inserttocsubsubsection\par}
2839
2840 \newcommand*{\bidi@beamer@blacktriangle}{%
2841 \if@RTL
2842 $\blacktriangleleft$%

```



```

2843 \else
2844   $\blacktriangleright$%
2845 \fi
2846 }
2847
2848 \bidi@csundef{beamer@@tmpop@itemize item@default}
2849
2850 \bidi@csundef{beamer@@tmpop@itemize subitem@default}
2851
2852 \bidi@csundef{beamer@@tmpop@itemize subsubitem@default}
2853
2854 \defbeamertemplate*{itemize item}{default}{\usebeamerfont*{itemize item}\raise1.25pt\hbox{\d
2855 \defbeamertemplate*{itemize subitem}{default}{\usebeamerfont*{itemize subitem}\raise1.5pt\hb
2856 \defbeamertemplate*{itemize subsubitem}{default}{\usebeamerfont*{itemize subsubitem}\raise1.
2857
2858 \bidi@undef\beamer@@tmpop@footnote@default
2859
2860 \defbeamertemplate*{footnote}{default}
2861 {
2862   \parindent 1em\noindent%
2863   \bidi@beamer@ragged
2864   \hbox to 1.8em{\hfil\insertfootnotemark}\insertfootnotetext\par%
2865 }
2866
2867 \defbeamertemplate*{RTLfootnote}{default}
2868 {
2869   \parindent 1em\noindent%
2870   \raggedleft
2871   \hbox to 1.8em{\hfil\insertfootnotemark}\insertfootnotetext\par%
2872 }
2873
2874 \defbeamertemplate*{LTRfootnote}{default}
2875 {
2876   \parindent 1em\noindent%
2877   \raggedright
2878   \hbox to 1.8em{\hfil\insertfootnotemark}\insertfootnotetext\par%
2879 }
2880
2881 \bidi@undef\beamer@@tmpop@caption@default
2882
2883 \defbeamertemplate*{caption}{default}
2884 {%
2885   \bidi@beamer@ragged
2886   {%
2887     \leavevmode
2888     \usebeamerfont[fg]{caption name}%
2889     \usebeamerfont*{caption name}%
2890     \insertcaptionname
2891     \usebeamertemplate{caption label separator}%
2892   }%
2893   \insertcaption\par
2894 }
2895
2896 \bidi@csundef{beamer@@tmpop@block begin@default}

```



```

2897
2898 \bidi@csundef{beamer@tmpop@block alerted begin@default}
2899
2900 \bidi@csundef{beamer@tmpop@block example begin@default}
2901
2902 \defbeamer*template*{block begin}{default}
2903 {
2904   \par\vskip\medskipamount%
2905   \begin{beamer*colorbox}[colsep*=.75ex]{block title}
2906     \usebeamerfont*{block title}\insertblocktitle%
2907   \end{beamer*colorbox}%
2908   {\parskip0pt\par}%
2909   \ifbeamer*colorempthy[bg]{block title}
2910   {}
2911   {\ifbeamer*colorempthy[bg]{block body}{}\{\nointerlineskip\vskip-0.5pt}\}%
2912   \usebeamerfont{block body}%
2913   \begin{beamer*colorbox}[colsep*=.75ex,vmode]{block body}%
2914     \ifbeamer*colorempthy[bg]{block body}{\vskip-.25ex}{\leavevmode\vskip-\dimexpr.75ex+\basel
2915   }
2916
2917 \defbeamer*template*{block alerted begin}{default}
2918 {
2919   \par\vskip\medskipamount%
2920   \begin{beamer*colorbox}[colsep*=.75ex]{block title alerted}
2921     \usebeamerfont*{block title alerted}\insertblocktitle%
2922   \end{beamer*colorbox}%
2923   {\parskip0pt\par}%
2924   \ifbeamer*colorempthy[bg]{block title alerted}
2925   {}
2926   {\ifbeamer*colorempthy[bg]{block body alerted}{}\{\nointerlineskip\vskip-0.5pt}\}%
2927   \usebeamerfont{block body alerted}%
2928   \begin{beamer*colorbox}[colsep*=.75ex,vmode]{block body alerted}%
2929     \ifbeamer*colorempthy[bg]{block body alerted}{\vskip-.25ex}{\leavevmode\vskip-\dimexpr.75e
2930   }
2931
2932 \defbeamer*template*{block example begin}{default}
2933 {
2934   \par\vskip\medskipamount%
2935   \begin{beamer*colorbox}[colsep*=.75ex]{block title example}
2936     \usebeamerfont*{block title example}\insertblocktitle%
2937   \end{beamer*colorbox}%
2938   {\parskip0pt\par}%
2939   \ifbeamer*colorempthy[bg]{block title example}
2940   {}
2941   {\ifbeamer*colorempthy[bg]{block body example}{}\{\nointerlineskip\vskip-0.5pt}\}%
2942   \usebeamerfont{block body example}%
2943   \begin{beamer*colorbox}[colsep*=.75ex,vmode]{block body example}%
2944     \ifbeamer*colorempthy[bg]{block body example}{\vskip-.25ex}{\leavevmode\vskip-\dimexpr.75e
2945   }
2946
2947 \bidi@csundef{beamer@tmpop@abstract begin@default}
2948
2949 \defbeamer*template*{abstract begin}{default}
2950 {\beamer*colorbox[vmode]{abstract}\bidi@beamer@leftskip2em\bidi@beamer@rightskip2em plus 1fil

```



```

2951
2952 \bidi@undef\beamer@tmpop@button@default
2953
2954 \defbeamertemplate*{button}{default}
2955 {%
2956 \setbox\beamer@tempbox=\hbox{\insertbuttontext}}%
2957 \ht\beamer@tempbox=6pt%
2958 \dp\beamer@tempbox=0pt%
2959 \setbox\beamer@tempbox=\vbox{\box\beamer@tempbox\vskip2pt}%
2960 \beamer@tempdim=\wd\beamer@tempbox%
2961 \beamer@dima=\beamer@tempdim\advance\beamer@dima by2.2pt
2962 \beamer@dimb=\beamer@tempdim\advance\beamer@dimb by4pt
2963 \if@RTL
2964 \kern4pt%
2965 \box\beamer@tempbox%
2966 \hskip-\beamer@tempdim%
2967 \fi
2968 \begin{pgfpicture}{-4pt}{0pt}{\the\beamer@tempdim}{8pt}
2969 \color{bg}
2970 \pgfsetlinewidth{0.8pt}
2971 \pgfpathmoveto{0pt}{0pt}
2972 \pgfpathqcurveto{-2.2pt}{0pt}{-4pt}{1.8pt}{-4pt}{4pt}
2973 \pgfpathqcurveto{-4pt}{6.2pt}{-2.2pt}{8pt}{0pt}{8pt}
2974 \pgfpathlineto{\pgfpoint{\the\beamer@tempdim}{8pt}}
2975 \pgfpathcurveto%
2976 {\pgfpoint{\the\beamer@dima}{8pt}}%
2977 {\pgfpoint{\the\beamer@dimb}{6.2pt}}%
2978 {\pgfpoint{\the\beamer@dimb}{4pt}}
2979 \pgfpathcurveto%
2980 {\pgfpoint{\the\beamer@dimb}{1.8pt}}%
2981 {\pgfpoint{\the\beamer@dima}{0pt}}%
2982 {\pgfpoint{\the\beamer@tempdim}{0pt}}
2983 \pgfpathclose
2984 \pgfusepathqfill
2985 \colorlet{bg}{parent.bg}
2986 \usebeamercolor[fg]{button border}
2987 \pgfpathmoveto{0pt}{0pt}
2988 \pgfpathqcurveto{-2.2pt}{0pt}{-4pt}{1.8pt}{-4pt}{4pt}
2989 \pgfpathqcurveto{-4pt}{6.2pt}{-2.2pt}{8pt}{0pt}{8pt}
2990 \pgfpathlineto{\pgfpoint{\the\beamer@tempdim}{8pt}}
2991 \pgfpathcurveto%
2992 {\pgfpoint{\the\beamer@dima}{8pt}}%
2993 {\pgfpoint{\the\beamer@dimb}{6.2pt}}%
2994 {\pgfpoint{\the\beamer@dimb}{4pt}}
2995 \pgfpathcurveto%
2996 {\pgfpoint{\the\beamer@dimb}{1.8pt}}%
2997 {\pgfpoint{\the\beamer@dima}{0pt}}%
2998 {\pgfpoint{\the\beamer@tempdim}{0pt}}
2999 \pgfpathclose
3000 \pgfusepathqstroke
3001 \end{pgfpicture}%
3002 \if@RTL
3003 \else
3004 \hskip-\beamer@tempdim%

```



```

3005     \box\beamer@tempbox%
3006     \kern4pt%
3007 \fi
3008 }
3009
3010

```

## 26 File beamerinnerthemecircles-xetex-bidi.def

```

3011 \ProvidesFile{beamerinnerthemecircles-xetex-bidi.def}[2022/06/06 v0.1 bidi adaptations for bea
3012 \setbeamertemplate{sections/subsections in toc}[circle]
3013

```

## 27 File beamerinnerthemefocus-xetex-bidi.def

```

3014 \ProvidesFile{beamerinnerthemefocus-xetex-bidi.def}[2022/06/13 v0.1 bidi adaptations for bea
3015 \setbeamertemplate{section in toc}[square]
3016 \setbeamertemplate{subsection in toc}[square]
3017
3018 \setbeamertemplate{itemize items}[square]
3019 \setbeamertemplate{itemize subitem}[triangle]
3020
3021 \bidi@csundef{beamer@@tmpop@title page@focus}
3022
3023 \defbeamertemplate*{title page}{focus}{%
3024     {%
3025         \usebeamercolor{frametitle}\colorlet{focus@@temp}{bg}%
3026         \begin{tikzpicture}[overlay, remember picture]
3027             \fill[color=focus@@temp] (current page.north west) rectangle ([shift = {(0, -0.4
3028         \end{tikzpicture}
3029     }
3030
3031     \vspace{-1.65\baselineskip}
3032     \begin{minipage}[b] [0.35\paperheight]{\textwidth}
3033         \vspace{\baselineskip}
3034         \usebeamerfont{title}
3035         \usebeamercolor[fg]{frametitle}
3036         \inserttitle
3037     \end{minipage}
3038
3039     \begin{minipage}[t] [0.1\paperheight]{\textwidth}
3040         \usebeamerfont{subtitle}
3041         \usebeamercolor[fg]{frametitle}
3042         \insertsubtitle
3043     \end{minipage}
3044
3045     % Set the title graphic in a zero-height box, so that
3046     % the position of other elements is not affected.
3047     {\vfuzz=9999pt\vbox to 0pt {
3048         \if@RTL
3049             \raggedright
3050         \else
3051             \raggedleft
3052         \fi

```



```

3053     \inserttitlegraphic
3054   }}
3055
3056   \begin{minipage}[t]{\textwidth}
3057     \usebeamerfont{author}
3058     \insertauthor
3059   \end{minipage}
3060
3061   \vspace*{\baselineskip}
3062   \begin{minipage}[t]{\textwidth}
3063     \usebeamerfont{institute}
3064     \insertinstitute
3065   \end{minipage}
3066
3067   \vspace*{\baselineskip}
3068   \begin{minipage}[t]{\textwidth}
3069     \usebeamerfont{date}
3070     \insertdate
3071   \end{minipage}
3072
3073   \vspace*{0pt plus 100fill}
3074
3075   \addtocounter{framenummer}{-1}
3076   \addtocounter{realframenummer}{-1}
3077 }
3078
3079
3080

```

## 28 File beamerinnerthemeinmargin-xetex-bidi.def

```

3081 \ProvidesFile{beamerinnerthemeinmargin-xetex-bidi.def}[2022/06/09 v0.1 bidi adaptations for
3082 \AtBeginDocument{%
3083   \setbeamerfont{sidebar width left=.25\paperwidth}%
3084 }
3085
3086 \bidi@csundef{beamer@tmpop@section in toc@inmargin}
3087
3088 \bidi@csundef{beamer@tmpop@title page@inmargin}
3089
3090 \bidi@csundef{beamer@tmpop@block begin@inmargin}
3091
3092 \bidi@csundef{beamer@tmpop@block end@inmargin}
3093
3094 \bidi@csundef{beamer@tmpop@block alerted begin@inmargin}
3095
3096 \bidi@csundef{beamer@tmpop@block alerted end@inmargin}
3097
3098 \bidi@csundef{beamer@tmpop@block example begin@inmargin}
3099
3100 \bidi@csundef{beamer@tmpop@block example end@inmargin}
3101
3102 \defbeamerfont{section in toc}{inmargin}
3103 {\leavevmode

```





```

3104 \beamer@putleft{\usebeamercolor[fg]{section in toc}\inserttocsection}\strut}{2.5ex}}
3105
3106 \defbeamerteremplate*{title page}{inmargin}
3107 {
3108   \begin{block}{\inserttitleindicator}
3109     \bgroup\usebeamercolor[fg]{title}\usebeamerfont{title}\inserttitle\egroup\par
3110     \usebeamercolor[fg]{subtitle}\usebeamerfont{subtitle}\insertsubtitle
3111   \end{block}
3112   \vfill
3113   \ifx\insertauthor\@empty
3114   \else
3115     \begin{block}{\insertauthorindicator}
3116       \bgroup\usebeamercolor[fg]{author}\usebeamerfont{author}\insertauthor\egroup\par
3117     \end{block}
3118     \fi
3119     \ifx\insertinstitute\@empty
3120     \else
3121       \begin{block}{\insertinstituteindicator}
3122         \bgroup\usebeamercolor[fg]{institute}\usebeamerfont{institute}\insertinstitute\egroup\par
3123       \end{block}
3124       \fi
3125       \ifx\insertdate\@empty
3126       \else
3127         \begin{block}{\insertdateindicator}
3128           \bgroup\usebeamercolor[fg]{date}\usebeamerfont{date}\insertdate\egroup\par
3129         \end{block}
3130         \fi
3131     }
3132
3133 \defbeamerteremplate*{block begin}{inmargin}
3134 {
3135   \par\vskip\medskipamount%
3136   \leavevmode%
3137   \beamer@putleft{\normalfont{\usebeamercolor[fg]{block title}\usebeamerfont*{block title}\i}
3138   \beginL\beamer@putright
3139   %\usebeamercolor[fg]{block body}% to be done!
3140 }
3141
3142 \defbeamerteremplate*{block end}{inmargin}
3143 {\endbeamer@putright\endL\vskip\smallskipamount}
3144
3145 \defbeamerteremplate*{block alerted begin}{inmargin}
3146 {
3147   \par\vskip\medskipamount%
3148   \leavevmode%
3149   \beamer@putleft{\normalfont{\usebeamercolor[fg]{block title alerted}\usebeamerfont*{block
3150   \beginL\beamer@putright
3151   %\usebeamercolor[fg]{block body alerted}% to be done!
3152 }
3153
3154 \defbeamerteremplate*{block alerted end}{inmargin}
3155 {\endbeamer@putright\endL\vskip\smallskipamount}
3156
3157 \defbeamerteremplate*{block example begin}{inmargin}

```



```

3158 {
3159   \par\vskip\medskipamount%
3160   \leavevmode%
3161   \beamer@putleft{\normalfont{\usebeamerfont{fg}{block title example}}\usebeamerfont*{block
3162   \beginL\beamer@putright
3163   %\usebeamerfont{fg}{block body example}% to be done
3164 }
3165
3166 \defbeamertemplate*{block example end}{inmargin}
3167 {\endbeamer@putright\endL\vskip\smallskipamount}
3168
3169 \bidi@AfterFile{beamerinnerthememetropolis-xetex-bidi.def}{%
3170   \setbeamertemplate{section in toc}[inmargin]%
3171   \setbeamertemplate{subsection in toc}[inmargin]%
3172   \setbeamertemplate{subsubsection in toc}[inmargin]%
3173 }
3174
3175

```

## 29 File beamerinnerthememetropolis-xetex-bidi.def

```

3176 \ProvidesFile{beamerinnerthememetropolis-xetex-bidi.def}[2022/06/13 v0.1 bidi adaptations fo
3177 \setbeamertemplate{title}{
3178   \bidi@beamer@ragged%
3179   \linespread{1.0}%
3180   \inserttitle%
3181   \par%
3182   \vspace*{0.5em}
3183 }
3184
3185 \setbeamertemplate{subtitle}{
3186   \bidi@beamer@ragged%
3187   \insertsubtitle%
3188   \par%
3189   \vspace*{0.5em}
3190 }
3191
3192 \bidi@csundef{beamer@@tmpop@section page@progressbar}
3193
3194 \defbeamertemplate{section page}{progressbar}{
3195   \centering
3196   \begin{minipage}{22em}
3197     \bidi@beamer@ragged
3198     \usebeamerfont{fg}{section title}
3199     \usebeamerfont{section title}
3200     \insertsectionhead\[-1ex]
3201     \usebeamertemplate*{progress bar in section page}
3202     \par
3203     \ifx\insertsubsectionhead\@empty\else%
3204       \usebeamerfont{fg}{subsection title}%
3205       \usebeamerfont{subsection title}%
3206       \insertsubsectionhead
3207     \fi
3208   \end{minipage}

```



```

3209 \par
3210 \vspace{\baselineskip}
3211 }
3212
3213 \setbeamertemplate{progress bar in section page}{
3214 \setlength{\metropolis@progressonsectionpage}{%
3215 \textwidth * \ratio{\insertframenumber pt}{\inserttotalframenumber pt}}%
3216 }%
3217 \begin{tikzpicture}
3218 \fill[bg] (0,0) rectangle (\textwidth, \metropolis@progressonsectionpage@linewidth);
3219 \if@RTLmain
3220 \fill[fg] (\textwidth-\metropolis@progressonsectionpage,0) rectangle (\textwidth, \metropolis@progressonsectionpage@linewidth);
3221 \else
3222 \fill[fg] (0,0) rectangle (\metropolis@progressonsectionpage, \metropolis@progressonsectionpage@linewidth);
3223 \fi
3224 \end{tikzpicture}%
3225 }
3226
3227 \renewcommand{\metropolis@block}[1]{
3228 \par\vskip\medskipamount%
3229 \setlength{\parskip}{Opt}
3230 \ifbeamercolorempy[bg]{block title#1}{%
3231 \if@RTL
3232 \begin{beamercolorbox}[leftskip=Opt plus 4em]{block title#1}%
3233 \else
3234 \begin{beamercolorbox}[rightskip=Opt plus 4em]{block title#1}%
3235 \fi
3236 }{%
3237 \ifbeamercolorempy[bg]{block title}{%
3238 \if@RTL
3239 \begin{beamercolorbox}[leftskip=Opt plus 4em]{block title#1}%
3240 \else
3241 \begin{beamercolorbox}[rightskip=Opt plus 4em]{block title#1}%
3242 \fi
3243 }%
3244 }%
3245 \if@RTL
3246 \begin{beamercolorbox}[
3247 sep=\dimexpr\metropolis@blocksep-\metropolis@blockadjust\relax,
3248 rightskip=\metropolis@blockadjust,
3249 leftskip=\dimexpr\metropolis@blockadjust plus 4em\relax
3250 ]{block title#1}%
3251 \else
3252 \begin{beamercolorbox}[
3253 sep=\dimexpr\metropolis@blocksep-\metropolis@blockadjust\relax,
3254 leftskip=\metropolis@blockadjust,
3255 rightskip=\dimexpr\metropolis@blockadjust plus 4em\relax
3256 ]{block title#1}%
3257 \fi
3258 }}%
3259 \usebeamerfont*{block title#1}%
3260 \metropolis@strut%
3261 \insertblocktitle%
3262 \metropolis@strut%

```



```

3263 \end{beamercolorbox}%
3264 \nointerlineskip%
3265 \ifbeamercoloreempty[bg]{block body#1}{%
3266   \begin{beamercolorbox}[vmode]{block body#1}}{
3267   \ifbeamercoloreempty[bg]{block body}{%
3268     \begin{beamercolorbox}[vmode]{block body#1}%
3269   }{%
3270     \begin{beamercolorbox}[sep=\metropolis@blocksep, vmode]{block body#1}%
3271     \vspace{-\metropolis@parskip}
3272   }}%
3273     \usebeamerfont{block body#1}%
3274     \setlength{\parskip}{\metropolis@parskip}%
3275 }
3276
3277
3278 \setbeamertemplate{footnote}{%
3279   \parindent 0em\noindent%
3280   \bidi@beamer@ragged
3281   \usebeamercolor{footnote}\hbox to 0.8em{\hfil\insertfootnotemark}\insertfootnotetext\par%
3282 }
3283
3284 \setbeamertemplate{RTLfootnote}{%
3285   \parindent 0em\noindent%
3286   \raggedleft
3287   \usebeamercolor{footnote}\hbox to 0.8em{\hfil\insertfootnotemark}\insertfootnotetext\par%
3288 }
3289
3290 \setbeamertemplate{LTRfootnote}{%
3291   \parindent 0em\noindent%
3292   \raggedright
3293   \usebeamercolor{footnote}\hbox to 0.8em{\hfil\insertfootnotemark}\insertfootnotetext\par%
3294 }
3295
3296 \setbeamertemplate{itemize items}{\textbullet}
3297
3298 \setbeamertemplate{section page}[progressbar]
3299
3300

```

### 30 [File beamerinnerthemerectangles-xetex-bidi.def](#)

```

3301 \ProvidesFile{beamerinnerthemerectangles-xetex-bidi.def}[2022/06/06 v0.1 bidi adaptations for b
3302 \setbeamertemplate{sections/subsections in toc}[square]
3303 \setbeamertemplate{items}[square]
3304

```

### 31 [File beamerinnerthemrounded-xetex-bidi.def](#)

```

3305 \ProvidesFile{beamerinnerthemrounded-xetex-bidi.def}[2022/06/01 v0.1 bidi adaptations for b
3306 \setbeamertemplate{blocks}[rounded] [shadow=\beamer@themrounded@shadow]
3307 \setbeamertemplate{items}[ball]
3308 \setbeamertemplate{sections/subsections in toc}[ball]
3309

```



## 32 File beamerouterthemedefault-xetex-bidi.def

```
3310 \ProvidesFile{beamerouterthemedefault-xetex-bidi.def}[2022/06/27 v0.2 bidi adaptations for b
3311 \def\beamer@fteleft{\if@RTLmain\vskip0.35cm\advance\leftskip by 1.7cm\advance\rightskip by1.
3312
3313 \def\beamer@fteright{\if@RTLmain\else\vskip0.35cm\advance\leftskip by 1.7cm\advance\rightski
3314
3315 \AtBeginDocument{%
3316   \if@RTLmain
3317     \setbeamertemplate{frametitle}[default][right]
3318   \fi
3319 }
3320
3321 \bidi@csundef{beamer@tmpop@note page@default}
3322
3323 \newcommand*{\bidi@beamer@today}{%
3324 \the\year-\ifnum\month<10\relax0\fi\the\month-\ifnum\day<10\relax0\fi\the\day}
3325
3326 \defbeamer*{note page}{default}
3327 {%
3328   {%
3329     \scriptsize
3330     \usebeamerfont{note title}\usebeamercolor[fg]{note title}%
3331     \ifbeamercolorempy[bg]{note title}{-}{%
3332       \insertvrule{.25\paperheight}{note title.bg}%
3333       \vskip-.25\paperheight%
3334       \nointerlineskip%
3335     }%
3336     \vbox{
3337       \hfill\insertslideintonotes{0.25}\hskip-\Gm@rmargin\hskip0pt%
3338       \vskip-0.25\paperheight%
3339       \nointerlineskip
3340       \if@RTL
3341         \begin{pgfpicture}{-\textwidth}{0cm}{-\textwidth}{0cm}
3342           \begin{pgflowlevelslope}{\pgftransformrotate{-90}}
3343             {\pgftransformshift{\pgfpoint{2cm}{0.2cm}}}%
3344             \pgftext[base,right]{\usebeamerfont{note date}\usebeamercolor[fg]{note date}\bidi@
3345           \end{pgflowlevelslope}
3346         \end{pgfpicture}%
3347       \else
3348         \begin{pgfpicture}{0cm}{0cm}{0cm}{0cm}
3349           \begin{pgflowlevelslope}{\pgftransformrotate{90}}
3350             {\pgftransformshift{\pgfpoint{-2cm}{0.2cm}}}%
3351             \pgftext[base,left]{\usebeamerfont{note date}\usebeamercolor[fg]{note date}\bidi@
3352           \end{pgflowlevelslope}
3353         \end{pgfpicture}%
3354       \fi
3355       \nointerlineskip
3356       \vbox to .25\paperheight{\vskip0.5em
3357       \if@RTL
3358         \moveright0.25\textwidth
3359       \fi
3360       \hbox{\insertshorttitle[width=0.75\textwidth]}}%
3361       \setbox\beamer@tempbox=\hbox{\insertsection}%
```



```

3362
3363 \if@RTL
3364 \moveright\dimexpr0.29\textwidth-14pt\relax
3365 \fi
3366 \hbox{\if@RTL\beginR\fi\ifdim\wd\beamer@tempbox>1pt{\hskip4pt\raise3pt\hbox{\vrule
3367     width0.4pt height7pt\vrule width 9pt
3368     height0.4pt}}\hskip1pt\hbox{\begin{minipage}[t]{0.71\textwidth}\def\breakhere{}}\fi%
3369 \if@RTL\endR\fi}%
3370 \setbox\beamer@tempbox=\hbox{\insertsubsection}%
3371
3372 \if@RTL
3373 \moveright\dimexpr0.29\textwidth-27.4pt\relax
3374 \fi \hbox{\if@RTL\beginR\fi\ifdim\wd\beamer@tempbox>1pt{\hskip17.4pt\raise3pt\hbox{\vrule
3375     width0.4pt height7pt\vrule width 9pt
3376     height0.4pt}}\hskip1pt\hbox{\begin{minipage}[t]{0.71\textwidth}\def\breakhere{}}\fi%
3377 \if@RTL\endR\fi}%
3378 \setbox\beamer@tempbox=\hbox{\insertshortframetitle}%
3379
3380 \if@RTL
3381 \moveright\dimexpr0.33\textwidth-40.8pt\relax
3382 \fi \hbox{\if@RTL\beginR\fi\ifdim\wd\beamer@tempbox>1pt{\hskip30.8pt\raise3pt\hbox{\vrule
3383     width0.4pt height7pt\vrule width 9pt
3384     height0.4pt}}\hskip1pt\hbox{\insertshortframetitle[width=0.67\textwidth]}\fi%
3385 \if@RTL\endR\fi}%
3386 \vfil}%
3387 }%
3388 \ifbeamercoloreempty[bg]{note page}{-}{-}%
3389 \nointerlineskip%
3390 \insertvrule{.75\paperheight}{note page.bg}%
3391 \vskip-.75\paperheight%
3392 }%
3393 \vskip.25em
3394 \nointerlineskip
3395 \insertnote
3396 }
3397
3398
3399

```

### 33 File beamerouterthemefocus-xetex-bidi.def

```

3400 \ProvidesFile{beamerouterthemefocus-xetex-bidi.def}[2022/06/13 v0.1 bidi adaptations for bea
3401 \bidi\undef\beamer@tmpop@footline@progressbar
3402
3403 \defbeamer*template*{footline}{progressbar}{%
3404     % If not appendix.
3405     \ifnum\mainend<0% From package appendixnumberbeamer.
3406     %
3407     \settowidth{\focus@pbar@leftoffset}{1}%
3408     \addtolength{\focus@pbar@leftoffset}{1.5em}%
3409     %
3410     \ifx\beamer@focus@totalframenum\no%
3411     \settowidth{\focus@pbar@rightoffset}{-}%
3412     \addtolength{\focus@pbar@rightoffset}{0.5em}%

```



```

3413     \else%
3414         \settoheight{\focus@pbar@rightoffset}{\inserttotalframenumbe}%
3415         \addtolength{\focus@pbar@rightoffset}{1.5em}%
3416     \fi%
3417     %
3418     % If not title page.
3419     \ifnum\value{realframenumbe}>0%
3420         \ifnum\value{framenumbe}<\inserttotalframenumbe%
3421             \begin{tikzpicture}[inner xsep=0.5em, inner ysep=0.5ex]\usebeamerfont{footli
3422                 \pgfmathsetmacro{\focus@pbar@progress}%
3423                     {(\paperwidth-\focus@pbar@leftoffset-\focus@pbar@rightoffset)*(\inse
3424
3425                 \clip (0,0) rectangle ++(\paperwidth,\the\focus@pbar@height);
3426 \if@RTLmain
3427                 \fill[footline.bg] (\paperwidth,0) rectangle ++(-\the\focus@pbar@leftoff
3428                 \fill[footline.bg] (\paperwidth-\the\focus@pbar@leftoffset,0) rectangl
3429                     ++(0,{-0.5*\the\focus@pbar@height}) node[anchor=west,
3430 \else
3431                 \fill[footline.bg] (0,0) rectangle ++(\the\focus@pbar@leftoffset,\the\fo
3432                 \fill[footline.bg] (\the\focus@pbar@leftoffset,0) rectangle ++(\focus@pb
3433                     ++(0,{-0.5*\the\focus@pbar@height}) node[anchor=east,
3434 \fi
3435                 \ifx\beamer@focus@totalframenumbeing\no%
3436                 \else%
3437 \if@RTLmain
3438                 \fill[footline.bg] (0,0) rectangle ++(\the\focus@pbar@rightoffset,\t
3439                     ++(0,{-0.5*\the\focus@pbar@height}) node[anchor=e
3440 \else
3441                 \fill[footline.bg] (\paperwidth,0) rectangle ++(-\the\focus@pbar@rig
3442                     ++(0,{-0.5*\the\focus@pbar@height}) node[anchor=w
3443 \fi
3444                 \fi%
3445                 \end{tikzpicture}%
3446     \else%
3447         \begin{tikzpicture}[inner xsep=0.5em, inner ysep=0.5ex]
3448             \clip (0,0) rectangle ++(\paperwidth,\the\focus@pbar@height);
3449             \fill[footline.bg] (0,0) rectangle ++(\paperwidth,\the\focus@pbar@height
3450 \if@RTLmain
3451             \node[anchor=west, footline.fg] at ({\the\focus@pbar@rightoffset},{0.5*\
3452 \else
3453             \node[anchor=east, footline.fg] at ({\paperwidth-\the\focus@pbar@rightof
3454 \fi
3455             \ifx\beamer@focus@totalframenumbeing\no%
3456             \else%
3457 \if@RTLmain
3458                 \node[footline.fg] at ({\the\focus@pbar@rightoffset},{0.5*\focus@pba
3459                 \node[anchor=east, footline.fg] at ({\the\focus@pbar@rightoffset},{0
3460 \else
3461                 \node[footline.fg] at ({\paperwidth-\the\focus@pbar@rightoffset},{0.
3462                 \node[anchor=west, footline.fg] at ({\paperwidth-\the\focus@pbar@rig
3463 \fi
3464                 \fi%
3465                 \end{tikzpicture}%
3466     \fi%

```



```

3467         \fi%
3468     \fi%
3469 }
3470
3471

```

## 34 File beamerouterthemeinfolines-xetex-bidi.def

```

3472 \ProvidesFile{beamerouterthemeinfolines-xetex-bidi.def}[2022/06/09 v0.2 bidi adaptations for
3473 \bidi@csundef{beamer@tmpop@footline@infolines theme}
3474
3475 \defbeamertemplate*{footline}{infolines theme}
3476 {%
3477     \leavevmode%
3478     \hbox{%
3479         \begin{beamercolorbox}[wd=.333333\paperwidth,ht=2.25ex,dp=1ex,center]{author in head/foot}%
3480             \usebeamerfont{author in head/foot}\insertshortauthor\expandafter\ifblank\expandafter{\b
3481         \end{beamercolorbox}%
3482         \begin{beamercolorbox}[wd=.333333\paperwidth,ht=2.25ex,dp=1ex,center]{title in head/foot}%
3483             \usebeamerfont{title in head/foot}\insertshorttitle
3484         \end{beamercolorbox}%
3485         \begin{beamercolorbox}[wd=.333333\paperwidth,ht=2.25ex,dp=1ex,leftskip=2ex,rightskip=2ex,s
3486             \hfill%
3487             \usebeamerfont{date in head/foot}%
3488             \insertshortdate{}%
3489             \hfill%
3490             \bgroup
3491             \usebeamerfont{page number in head/foot}%
3492             \usebeamerfont{page number in head/foot}%
3493             \usebeamertemplate{page number in head/foot}%
3494             \egroup
3495         \end{beamercolorbox}}%
3496         \vskip0pt%
3497     }
3498
3499 \bidi@csundef{beamer@tmpop@headline@infolines theme}
3500
3501 \defbeamertemplate*{headline}{infolines theme}
3502 {%
3503     \leavevmode%
3504     \hbox{%
3505         \if@RTL
3506             \begin{beamercolorbox}[wd=.5\paperwidth,ht=2.65ex,dp=1.5ex,left]{section in head/foot}%
3507         \else
3508             \begin{beamercolorbox}[wd=.5\paperwidth,ht=2.65ex,dp=1.5ex,right]{section in head/foot}%
3509         \fi
3510             \usebeamerfont{section in head/foot}\insertsectionhead\hspace*{2ex}
3511         \end{beamercolorbox}%
3512         \if@RTL
3513             \begin{beamercolorbox}[wd=.5\paperwidth,ht=2.65ex,dp=1.5ex,right]{subsection in head/foot}%
3514         \else
3515             \begin{beamercolorbox}[wd=.5\paperwidth,ht=2.65ex,dp=1.5ex,left]{subsection in head/foot}%
3516         \fi
3517             \usebeamerfont{subsection in head/foot}\hspace*{2ex}\insertsubsectionhead

```





```

3518 \end{beamercolorbox}}}%
3519 \vskipOpt%
3520 }
3521
3522 \bidi@AfterFile{beamerouterthemesplit-xetex-bidi.def}{%
3523 \setbeamertemplate{footline}[infolines theme]%
3524 }
3525

```

## 35 File beamerouterthememetropolis-xetex-bidi.def

```

3526 \ProvidesFile{beamerouterthememetropolis-xetex-bidi.def}[2022/06/13 v0.1 bidi adaptations fo
3527 \setbeamertemplate{progress bar in head/foot}{
3528 \nointerlineskip
3529 \setlength{\metropolis@progressinheadfoot}{%
3530 \paperwidth * \ratio{\insertframenum pt}{\inserttotalframenum pt}}%
3531 }%
3532 \begin{beamercolorbox}[wd=\paperwidth]{progress bar in head/foot}
3533 \begin{tikzpicture}
3534 \fill[bg] (0,0) rectangle (\paperwidth, \metropolis@progressinheadfoot@linewidth);
3535 \if@RTLmain
3536 \fill[fg] (\paperwidth-\metropolis@progressinheadfoot,0) rectangle (\paperwidth, \metr
3537 \else
3538 \fill[fg] (0,0) rectangle (\metropolis@progressinheadfoot, \metropolis@progressinheadf
3539 \fi
3540 \end{tikzpicture}}%
3541 \end{beamercolorbox}
3542 }
3543
3544 \AtBeginDocument{%
3545 \setbeamertemplate{frametitle}[plain]%
3546 }
3547
3548

```

## 36 File beamerouterthememiniframes-xetex-bidi.def

```

3549 \ProvidesFile{beamerouterthememiniframes-xetex-bidi.def}[2022/06/09 v0.1 bidi adaptations fo
3550 \bidi@csundef{beamer@tmpop@headline@miniframes theme}
3551
3552 \defbeamertemplate*{headline}{miniframes theme}
3553 {%
3554 \begin{beamercolorbox}[colsep=1.5pt]{upper separation line head}
3555 \end{beamercolorbox}
3556 \begin{beamercolorbox}{section in head/foot}
3557 \vskip2pt\if@RTL\beginR\fi\insertnavigation{\paperwidth}\if@RTL\endR\fi\vskip2pt
3558 \end{beamercolorbox}}%
3559 \ifbeamer@theme@subsection%
3560 \begin{beamercolorbox}[colsep=1.5pt]{middle separation line head}
3561 \end{beamercolorbox}
3562 \if@RTL
3563 \begin{beamercolorbox}[ht=2.5ex,dp=1.125ex,%
3564 rightskip=.3cm,leftskip=.3cm plus1fil]{subsection in head/foot}
3565 \else

```



```

3566 \begin{beamercolorbox}[ht=2.5ex,dp=1.125ex,%
3567 leftskip=.3cm,rightskip=.3cm plus1fil]{subsection in head/footer}
3568 \fi
3569 \usebeamerfont{subsection in head/footer}\insertsubsectionhead
3570 \end{beamercolorbox}%
3571 \fi%
3572 \begin{beamercolorbox}[colsep=1.5pt]{lower separation line head}
3573 \end{beamercolorbox}
3574 }
3575
3576

```

### 37 File beamerouterthemesidebar-xetex-bidi.def

```

3577 \ProvidesFile{beamerouterthemesidebar-xetex-bidi.def}[2022/06/07 v0.2 bidi adaptations for b
3578 \bidi@csundef{beamer@tmpop@frametitle@sidebar theme}
3579
3580 \bidi@csundef{beamer@tmpop@headline@sidebar theme}
3581
3582 \bidi@csundef{beamer@tmpop@sidebar left@sidebar theme}
3583
3584 \bidi@csundef{beamer@tmpop@sidebar right@sidebar theme}
3585
3586 \ifdim\beamer@headheight>0pt
3587
3588 \defbeamer*template*{frametitle}{sidebar theme}
3589 {%
3590 \nointerlineskip%
3591 \ifbeamer@plainframe%
3592 \hbox{\usebeamercolor[bg]{frametitle}%
3593 \@tempdima\paperwidth\advance\@tempdima-\beamer@sidebarwidth
3594 \hskip-\beamer@leftmargin\vrule height\beamer@headheight width\@tempdima\hskip-\beam
3595 \nointerlineskip%
3596 \fi%
3597 \vskip-\beamer@headheight%
3598 \vbox to \beamer@headheight{%
3599 \vfil
3600 \bidi@beamer@leftskip=-\beamer@leftmargin%
3601 \advance\bidi@beamer@leftskip by0.3cm%
3602 \bidi@beamer@rightskip=-\beamer@rightmargin%
3603 \advance\bidi@beamer@rightskip by0.3cm plus1fil%
3604 {\usebeamercolor[fg]{frametitle}\usebeamerfont{frametitle}\strut\insertframetitle\par}
3605 \ifx\insertframesubtitle\@empty\else%
3606 {\usebeamercolor[fg]{framesubtitle}\usebeamerfont{framesubtitle}\strut\insertframesu
3607 \fi%
3608 \vbox{}%
3609 \vskip-1em%
3610 \vfil
3611 }%
3612 }
3613
3614 \AtBeginDocument{%
3615 \setbeamer*template{frametitle}{sidebar theme}%
3616 }

```



```

3617
3618 \defbeamertheme*{headline}{sidebar theme}
3619 {%
3620 \begin{beamercolorbox}[wd=\paperwidth]{frametitle}
3621 \ifx\beamer@sidebarside\beamer@lefttext%
3622 \else%
3623 \hfill%
3624 \fi%
3625 \ifdim\beamer@sidebarwidth>Opt%
3626 \bgroup
3627 \usebeamercolor[bg]{logo}%
3628 \if@RTLmain
3629 \else
3630 \vrule width\beamer@sidebarwidth height \beamer@headheight%
3631 \hskip-\beamer@sidebarwidth%
3632 \fi
3633 \hbox to \beamer@sidebarwidth{\hss\vbox to
3634 \beamer@headheight{\vss\hbox{\color{fg}\insertlogo}\vss}\hss}%
3635 \if@RTLmain
3636 \hskip-\beamer@sidebarwidth%
3637 \vrule width\beamer@sidebarwidth height \beamer@headheight%
3638 \fi
3639 \egroup
3640 \else%
3641 \vrule widthOpt height \beamer@headheight%
3642 \fi%
3643 \end{beamercolorbox}
3644 }
3645 \fi
3646
3647 \def\beamer@sidebarformat#1#2#3{%
3648 \if@RTL
3649 \begin{beamercolorbox}[wd=\beamer@sidebarwidth,rightskip=#1,leftskip=1ex plus1fil,vmode]{#
3650 \else
3651 \begin{beamercolorbox}[wd=\beamer@sidebarwidth,leftskip=#1,rightskip=1ex plus1fil,vmode]{#
3652 \fi
3653 \vbox{%
3654 #3\par%
3655 \vbox{%
3656 \vskip-1.5ex%
3657 \end{beamercolorbox}
3658 }
3659
3660 \ifdim\beamer@sidebarwidth>Opt
3661
3662 \AtBeginDocument{%
3663 \setbeamersize{sidebar width \beamer@sidebarside=\beamer@sidebarwidth}%
3664 }
3665
3666 \defbeamertheme*{sidebar \beamer@sidebarside}{sidebar theme}
3667 {
3668 \beamer@tempdim=\beamer@sidebarwidth%
3669 \advance\beamer@tempdim by -6pt%
3670 {\usebeamerfont{title in sidebar}}%

```



```

3671     \vskip1.5em%
3672     \hskip3pt%
3673     \bgroup
3674     \usebeamercolor[fg]{title in sidebar}%
3675     \insertshorttitle[width=\beamer@tempdim,center,respectlinebreaks]\egroup\par%
3676     \vskip1.25em%
3677   }%
3678   {%
3679     \hskip3pt%
3680     \bgroup
3681     \usebeamercolor[fg]{author in sidebar}%
3682     \usebeamerfont{author in sidebar}%
3683     \insertshortauthor[width=\beamer@tempdim,center,respectlinebreaks]\egroup\par%
3684     \vskip1.25em%
3685   }%
3686   \insertverticalnavigation{\beamer@sidebarwidth}%
3687   \vfill
3688   \ifx\beamer@sidebarside\beamer@lefttext%
3689     \else%
3690       \usebeamercolor{normal text}%
3691       \llap{\usebeamertemplate***{navigation symbols}\hskip0.1cm}%
3692       \vskip2pt%
3693     \fi%
3694   }%
3695 \fi
3696

```

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

```

3697 \ProvidesFile{beamerouterthemesplit-xetex-bidi.def}[2022/06/09 v0.2 bidi adaptations for bea
3698 \bidi\csundef{beamer@tmpop@footline@split theme}
3699
3700 \defbeamertemplate*{footline}{split theme}
3701 {%
3702   \leavevmode%
3703   \hbox{\if@RTL\begin{beamercolorbox}[wd=.5\paperwidth,ht=2.5ex,dp=1.125ex,rightskip=.3cm pl
3704 \else
3705 \begin{beamercolorbox}[wd=.5\paperwidth,ht=2.5ex,dp=1.125ex,leftskip=.3cm plus1fill,rightski
3706 \fi
3707   \usebeamerfont{author in head/foot}\insertshortauthor
3708   \end{beamercolorbox}}%
3709 \if@RTL
3710   \begin{beamercolorbox}[wd=.5\paperwidth,ht=2.5ex,dp=1.125ex,rightskip=.3cm,leftskip=.3cm
3711 \else
3712   \begin{beamercolorbox}[wd=.5\paperwidth,ht=2.5ex,dp=1.125ex,leftskip=.3cm,rightskip=.3cm p
3713 \fi
3714   \usebeamerfont{title in head/foot}\insertshorttitle\nobreak\hfill\bgroup\usebeamercolor[
3715   \end{beamercolorbox}}}%
3716   \vskip0pt%
3717 }
3718
3719

```



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

```
3720 \ProvidesFile{beamerouterthemeshadow-xetex-bidi.def}[2022/06/11 v0.3 bidi adaptations for be
3721 \pgfdeclarehorizontalshading[frametitle.bg,frametitle right.bg]{bidi@beamer@RTL@frametitlesh
3722   color(0pt)=(frametitle right.bg);
3723   color(\paperwidth)=(frametitle.bg)
3724 }
3725
3726 \newcommand*{\bidi@beamer@frametitleshade}{%
3727   \if@RTLmain
3728     \pgfuses shading{bidi@beamer@RTL@frametitleshade}%
3729   \else
3730     \pgfuses shading{beamer@frametitleshade}%
3731   \fi
3732 }
3733
3734 \bidi@csundef{beamer@tmpop@frametitle@shadow theme}
3735
3736 \defbeamer template*{frametitle}{shadow theme}
3737 {%
3738   \nointerlineskip%
3739   \vskip-2pt%
3740   \hbox{\leavevmode
3741     \advance\beamer@leftmargin by -12bp%
3742     \advance\beamer@rightmargin by -12bp%
3743     \beamer@tempdim=\textwidth%
3744     \advance\beamer@tempdim by \beamer@leftmargin%
3745     \advance\beamer@tempdim by \beamer@rightmargin%
3746     \hskip-\Gm@lmargin\hbox{%
3747       \setbox\beamer@tempbox=\hbox{\begin{minipage}[b]{\paperwidth}%
3748         \vbox{\vskip-.75ex%
3749           \bidi@beamer@leftskip0.3cm%
3750           \bidi@beamer@rightskip0.3cm plus1fil\leavevmode
3751           \bgroup\usebeamer color{fg}{frametitle}\usebeamer font{frametitle}\strut\insertframe
3752           \ifx\insertframesubtitle@empty\else%
3753             {\usebeamer font*{framesubtitle}{\usebeamer color{fg}{framesubtitle}\insertframesu
3754           \fi%
3755           \nointerlineskip
3756           \vbox{}%
3757         \end{minipage}}%
3758       \beamer@tempdim=\ht\beamer@tempbox%
3759       \advance\beamer@tempdim by 2pt%
3760       \begin{pgfpicture}{0pt}{0pt}{\paperwidth}{\beamer@tempdim}
3761         \begin{pgfscope}
3762           \pgfsetfillcolor{black}%
3763           \pgfpathrectangle{\pgfpoint{0pt}{-4pt}}{\pgfpoint{\paperwidth}{8pt}}%
3764           \pgfsetfading{beamer@topshadowmask}{}%
3765           \pgfusepath{fill}%
3766         \end{pgfscope}
3767         \begin{pgfscope}
3768           \usebeamer color{frametitle right}%
3769           \pgfpathrectangle{\pgfpointorigin}{\pgfpoint{\paperwidth}{\beamer@tempdim}}%
3770           \pgfusepath{clip}%
3771           \pgftext[left,base]{\bidi@beamer@frametitleshade}%
```



```

3772     \end{pgfscope}
3773     \end{pgfpicture}
3774     \hskip-\paperwidth%
3775     \box\beamer@tempbox%
3776   }%
3777   \hskip-\Gm@margin%
3778 }%
3779 \vskip-2pt
3780 }
3781
3782 \AtBeginDocument{%
3783   \setbeamertheme{frametitle}[shadow theme]%
3784 }
3785
3786

```

## 40 File beamerouterthemesmoothbars-xetex-bidi.def

```

3787 \ProvidesFile{beamerouterthemesmoothbars-xetex-bidi.def}[2022/06/09 v0.1 bidi adaptations fo
3788 \bidi@csundef{beamer@tmpop@headline@smoothbars theme}
3789
3790 \bidi@csundef{beamer@tmpop@frametitle@smoothbars theme}
3791
3792 \defbeamertheme*{headline}{smoothbars theme}
3793 {%
3794   \pgfuseshading{beamer@barshade}%
3795   \vskip-0.05ex%
3796   \begin{beamercolorbox}[wd=\paperwidth,ht=1ex,dp=0ex]{empty}
3797   \begin{pgfpicture}
3798     \begin{pgfscope}%
3799       \ifbeamer@sb@subsection%
3800         \pgfsetfillcolor{subsection in head/foot.bg}%
3801       \else%
3802         \pgfsetfillcolor{section in head/foot.bg}%
3803       \fi%
3804       \pgfpathrectangle{\pgfpoint{-.5\paperwidth}{-0.5ex}}{\pgfpoint{\paperwidth}{1ex}}%
3805       \pgfsetfading{beamer@belowframetitlemask}{}%
3806       \pgfusepath{fill}%
3807     \end{pgfscope}%
3808   \end{pgfpicture}%
3809   \end{beamercolorbox}%
3810   \ifbeamer@sb@subsection%
3811     \vskip-9.75ex%
3812   \else%
3813     \vskip-6.85ex%
3814   \fi%
3815   \begin{beamercolorbox}[ignorebg,ht=2.25ex,dp=3.75ex]{section in head/foot}
3816     \insertnavigation{\paperwidth}
3817   \end{beamercolorbox}%
3818   \ifbeamer@sb@subsection%
3819   \ifRTL
3820     \begin{beamercolorbox}[ignorebg,ht=2.125ex,dp=1.125ex,%
3821       rightskip=.3cm,leftskip=.3cm plus1fil]{subsection in head/foot}
3822   \else

```



```

3823   \begin{beamercolorbox}[ignorebg,ht=2.125ex,dp=1.125ex,%
3824     leftskip=.3cm,rightskip=.3cm plus1fil]{subsection in head/foot}
3825   \fi
3826     \usebeamerfont{subsection in head/foot}\insertsubsectionhead
3827   \end{beamercolorbox}%
3828 \fi%
3829 }%
3830
3831 \defbeamertemplate*{frametitle}{smoothbars theme}
3832 {%
3833   \nointerlineskip%
3834   \vskip-0.19ex%
3835   \usebeamerfont{headline}%
3836   \begin{beamercolorbox}[wd=\paperwidth,ht=1ex,dp=1ex,vmode]{empty}
3837     \pgfuses shading{beamer@aboveframetitle}%
3838   \end{beamercolorbox}%
3839   \vskip-1ex%
3840   \nointerlineskip%
3841   \if@RTL
3842     \begin{beamercolorbox}[wd=\paperwidth,rightskip=.3cm,leftskip=.3cm plus1fil,vmode]{frameti
3843   \else
3844     \begin{beamercolorbox}[wd=\paperwidth,leftskip=.3cm,rightskip=.3cm plus1fil,vmode]{frameti
3845   \fi
3846     \vskip0.5ex%
3847     \usebeamerfont*{frametitle}\strut\insertframetitle%
3848     \ifx\insertframesubtitle\@empty%
3849       \strut\par%
3850     \else
3851       \par{\usebeamerfont*{framesubtitle}{\usebeamercolor[fg]{framesubtitle}\strut\insertf
3852     \fi}%
3853     \usebeamerfont{headline}%
3854     \vskip0.05ex%
3855   \end{beamercolorbox}%
3856   \nointerlineskip%
3857   \vskip-0.05ex%
3858   \begin{beamercolorbox}[wd=\paperwidth,ht=1ex,dp=0ex]{empty}
3859   \begin{pgfpicture}
3860     \begin{pgfscope}%
3861       \pgfsetfillcolor{frametitle.bg}%
3862       \pgfpathrectangle{\pgfpoint{- .5\paperwidth}{-.5ex}}{\pgfpoint{\paperwidth}{1ex}}%
3863       \pgfsetfading{beamer@belowframetitlemask}{}%
3864       \pgfusepath{fill}%
3865     \end{pgfscope}%
3866   \end{pgfpicture}%
3867   \end{beamercolorbox}%
3868 }
3869
3870 \AtBeginDocument{%
3871   \setbeamertemplate{frametitle}[smoothbars theme]%
3872 }
3873
3874

```



## 41 File beamerouterthemessmoothtree-xetex-bidi.def

```
3875 \ProvidesFile{beamerouterthemessmoothtree-xetex-bidi.def}[2022/06/09 v0.1 bidi adaptations fo
3876 \bidi@csundef{beamer@tmpop@headline@smoothtree theme}
3877
3878 \bidi@csundef{beamer@tmpop@frametitle@smoothtree theme}
3879
3880 \defbeamer*{headline}{smoothtree theme}
3881 {%
3882   \pgfuseshading{beamer@treeshade}%
3883   \vskip-0.05ex%
3884   \begin{beamercolorbox}[wd=\paperwidth,ht=1ex,dp=0ex]{empty}
3885   \begin{pgfpicture}
3886     \begin{pgfscope}%
3887       \pgfsetfillcolor{subsection in head/foot.bg}%
3888       \pgfpathrectangle{\pgfpoint{-0.5\paperwidth}{-0.5ex}}{\pgfpoint{\paperwidth}{1ex}}%
3889       \pgfsetfading{beamer@belowframetitlemask}{}%
3890       \pgfusepath{fill}%
3891     \end{pgfscope}%
3892   \end{pgfpicture}%
3893   \end{beamercolorbox}%
3894   \vskip-9.15ex%
3895   \if@RTL
3896     \begin{beamercolorbox}[wd=\paperwidth,ht=1.125ex,dp=1.125ex,ignorebg,%
3897       rightskip=.3cm,leftskip=.3cm plus1fil]{title in head/foot}
3898   \else
3899     \begin{beamercolorbox}[wd=\paperwidth,ht=1.125ex,dp=1.125ex,ignorebg,%
3900       leftskip=.3cm,rightskip=.3cm plus1fil]{title in head/foot}
3901     \fi
3902     \usebeamerfont{title in head/foot}\insertshorttitle
3903   \end{beamercolorbox}
3904   \if@RTL
3905     \begin{beamercolorbox}[wd=\paperwidth,ht=2.125ex,dp=1.125ex,ignorebg,%
3906       rightskip=.3cm,leftskip=.3cm plus1fil]{section in head/foot}
3907   \else
3908     \begin{beamercolorbox}[wd=\paperwidth,ht=2.125ex,dp=1.125ex,ignorebg,%
3909       leftskip=.3cm,rightskip=.3cm plus1fil]{section in head/foot}
3910     \fi
3911     \usebeamerfont{section in head/foot}%
3912     \hskip6pt\insertsectionhead
3913   \end{beamercolorbox}
3914   \if@RTL
3915     \begin{beamercolorbox}[wd=\paperwidth,ht=2.125ex,dp=1.125ex,ignorebg,%
3916       rightskip=.3cm,leftskip=.3cm plus1fil]{subsection in head/foot}
3917   \else
3918     \begin{beamercolorbox}[wd=\paperwidth,ht=2.125ex,dp=1.125ex,ignorebg,%
3919       leftskip=.3cm,rightskip=.3cm plus1fil]{subsection in head/foot}
3920     \fi
3921     \usebeamerfont{subsection in head/foot}%
3922     \hskip12pt\insertsubsectionhead
3923   \end{beamercolorbox}
3924   \vskip-0.4ex%
3925 }
3926
```





```

3927 \defbeamertheme*{frametitle}{smoothtree theme}
3928 {%
3929   \nointerlineskip%
3930   \vskip-0.05ex%
3931   \usebeamerfont{headline}%
3932   \begin{beamercolorbox}[wd=\paperwidth,ht=0.85ex,dp=0ex]{empty}
3933     \pgfuses shading{beamer@aboveframetitle}%
3934   \end{beamercolorbox}
3935   \nointerlineskip%
3936   \if@RTL
3937     \begin{beamercolorbox}[wd=\paperwidth,rightskip=.935cm,leftskip=.3cm plus1fil]{frametitle}
3938   \else
3939     \begin{beamercolorbox}[wd=\paperwidth,leftskip=.935cm,rightskip=.3cm plus1fil]{frametitle}
3940   \fi
3941     \vskip-1.2ex%
3942     \usebeamerfont*{frametitle}\strut\insertframetitle%
3943     \ifx\insertframesubtitle\@empty%
3944       \strut\par%
3945     \else
3946       \par{\usebeamerfont*{framesubtitle}{\usebeamercolor[fg]{framesubtitle}\strut\insertframesubtitle}%
3947     \fi%
3948     \usebeamerfont{headline}%
3949   \end{beamercolorbox}%
3950   \nointerlineskip
3951   \vskip-0.2ex%
3952   \begin{beamercolorbox}[wd=\paperwidth,ht=1ex,dp=0ex]{empty}
3953   \begin{pgfpicture}
3954     \begin{pgfscope}%
3955       \pgfsetfillcolor{frametitle.bg}%
3956       \pgfpathrectangle{\pgfpoint{-0.5\paperwidth}{-0.5ex}}{\pgfpoint{\paperwidth}{1ex}}%
3957       \pgfsetfading{beamer@belowframetitlemask}{}%
3958       \pgfusepath{fill}%
3959     \end{pgfscope}%
3960   \end{pgfpicture}%
3961   \end{beamercolorbox}%
3962 }
3963
3964
3965 \AtBeginDocument{%
3966   \setbeamertheme{frametitle}[smoothtree theme]%
3967 }
3968
3969

```

## 42 File beamerouterthemetree-xetex-bidi.def

```

3970 \ProvidesFile{beamerouterthemetree-xetex-bidi.def}[2022/06/09 v0.1 bidi adaptations for beamer]
3971 \bidi@csundef{beamer@tmpop@headline@tree theme}
3972
3973 \defbeamertheme*{headline}{tree theme}
3974 {%
3975   \begin{beamercolorbox}[wd=\paperwidth,colsep=1.5pt]{upper separation line head}
3976   \end{beamercolorbox}
3977   \if@RTL

```



```

3978 \begin{beamercolorbox}[wd=\paperwidth,ht=2.5ex,dp=1.125ex,%
3979 rightskip=.3cm,leftskip=.3cm plus1fil]{title in head/foot}
3980 \else
3981 \begin{beamercolorbox}[wd=\paperwidth,ht=2.5ex,dp=1.125ex,%
3982 leftskip=.3cm,rightskip=.3cm plus1fil]{title in head/foot}
3983 \fi
3984 \usebeamerfont{title in head/foot}\insertshorttitle
3985 \end{beamercolorbox}
3986 \if@RTL
3987 \begin{beamercolorbox}[wd=\paperwidth,ht=2.5ex,dp=1.125ex,%
3988 rightskip=.3cm,leftskip=.3cm plus1fil]{section in head/foot}
3989 \else
3990 \begin{beamercolorbox}[wd=\paperwidth,ht=2.5ex,dp=1.125ex,%
3991 leftskip=.3cm,rightskip=.3cm plus1fil]{section in head/foot}
3992 \fi
3993 \usebeamerfont{section in head/foot}%
3994 \ifbeamer@tree@showhooks
3995 \setbox\beamer@tempbox=\hbox{\insertsectionhead}%
3996 \ifdim\wd\beamer@tempbox>1pt%
3997 \hskip2pt\raise1.9pt\hbox{\vrule width0.4pt height1.875ex\vrule width 5pt height0.4pt}
3998 \hskip1pt%
3999 \fi%
4000 \else%
4001 \hskip6pt%
4002 \fi%
4003 \insertsectionhead
4004 \end{beamercolorbox}
4005 \if@RTL
4006 \begin{beamercolorbox}[wd=\paperwidth,ht=2.5ex,dp=1.125ex,%
4007 rightskip=.3cm,leftskip=.3cm plus1fil]{subsection in head/foot}
4008 \else
4009 \begin{beamercolorbox}[wd=\paperwidth,ht=2.5ex,dp=1.125ex,%
4010 leftskip=.3cm,rightskip=.3cm plus1fil]{subsection in head/foot}
4011 \fi
4012 \usebeamerfont{subsection in head/foot}%
4013 \ifbeamer@tree@showhooks
4014 \setbox\beamer@tempbox=\hbox{\insertsubsectionhead}%
4015 \ifdim\wd\beamer@tempbox>1pt%
4016 \hskip9.4pt\raise1.9pt\hbox{\vrule width0.4pt height1.875ex\vrule width 5pt height0.4pt}
4017 \hskip1pt%
4018 \fi%
4019 \else%
4020 \hskip12pt%
4021 \fi%
4022 \insertsubsectionhead
4023 \end{beamercolorbox}
4024 \begin{beamercolorbox}[wd=\paperwidth,colsep=1.5pt]{lower separation line head}
4025 \end{beamercolorbox}
4026 }
4027
4028

```

## 43 File beamerthemeHannover-xetex-bidi.def



```

4029 \ProvidesFile{beamerthemeHannover-xetex-bidi.def}[2022/06/07 v0.1 bidi adaptations for beamer]
4030 \AtBeginDocument{%
4031   \if@RTLmain
4032     \setbeamertemplate{frametitle}[default][left]%
4033   \else
4034     \setbeamertemplate{frametitle}[default][right]%
4035   \fi
4036 }
4037
4038

```

## 44 File beamerthemeSingapore-xetex-bidi.def

```

4039 \ProvidesFile{beamerthemeSingapore-xetex-bidi.def}[2022/06/09 v0.1 bidi adaptations for beamer]
4040 \addtoheadtemplate{\pgfuses shading{beamer@headfade}\vskip-1.25cm}{ }
4041
4042 \beamertemplatedotitem
4043
4044 \AtBeginDocument{%
4045   \setbeamertemplate{frametitle}[default][center]%
4046 }
4047
4048

```

## 45 File bidi.sty

```

4049 \NeedsTeXFormat{LaTeX2e}
4050 \def\bididate{2025/01/03}
4051 \def\bidi@version{41.0}
4052 \def\bidi@releasename{Maryam Mirzakhani}
4053 \newcommand*{\bidireleasename}{\bidi@releasename}
4054 \ProvidesPackage{bidi}[\bididate\space v\bidi@version\space (Release \bidi@releasename)\space]
4055 Bidirectional typesetting in plain TeX and LaTeX]
4056 \newif\if@bidi@banner
4057 \newif\if@bidi@pdfbanner
4058 \newif\if@footdir@debug
4059 \newif\if@extrafootnote@features
4060 \newif\if@nonlatin
4061 \newif\if@bidi@pdfm@mark
4062 \newif\if@bidi@perpage@footnote
4063 \ExplSyntaxOn
4064 \keys_define:nn { bidi }
4065 {
4066   banner .choice: ,
4067   banner / on .code:n = \@bidi@bannertrue ,
4068   banner / off .code:n = \@bidi@bannerfalse ,
4069   banner .default:n = on
4070 }
4071 \keys_define:nn { bidi }
4072 {
4073   PDFbanner .choice: ,
4074   PDFbanner / on .code:n = \@bidi@pdfbannertrue ,
4075   PDFbanner / off .code:n = \@bidi@pdfbannerfalse ,
4076   PDFbanner .default:n = on

```



```

4077 }
4078 \keys_define:nn { bidi }
4079 {
4080   RTLdocument .choice: ,
4081   RTLdocument / on .code:n = \AtEndOfPackage{\@RTLtrue} ,
4082   RTLdocument / off .code:n = \AtEndOfPackage{\@RTLfalse} ,
4083   RTLdocument .default:n = on
4084 }
4085 \keys_define:nn { bidi }
4086 {
4087   rldocument .choice: ,
4088   rldocument / on .code:n = \AtEndOfPackage{\@RTLtrue} ,
4089   rldocument / off .code:n = \AtEndOfPackage{\@RTLfalse} ,
4090   rldocument .default:n = on
4091 }
4092 \keys_define:nn { bidi }
4093 {
4094   documentdirection .choice: ,
4095   documentdirection / righttoleft .code:n = \AtEndOfPackage{\@RTLtrue} ,
4096   documentdirection / lefttoright .code:n = \AtEndOfPackage{\@RTLfalse}
4097 }
4098 \keys_define:nn { bidi }
4099 {
4100   tabledirection .choice: ,
4101   tabledirection / righttoleft .code:n = \AtEndOfPackage{\@RTLtabtrue} ,
4102   tabledirection / lefttoright .code:n = \AtEndOfPackage{\@RTLtabfalse}
4103 }
4104 \keys_define:nn { bidi }
4105 {
4106   footnotedirection .choice: ,
4107   footnotedirection / righttoleft .code:n = \AtEndOfPackage{\@RTL@footnotetrue} ,
4108   footnotedirection / lefttoright .code:n = \AtEndOfPackage{\@RTL@footnotefalse}
4109 }
4110 \keys_define:nn { bidi }
4111 {
4112   debugfootnotedirection .choice: ,
4113   debugfootnotedirection / on .code:n = \footdir@debugtrue ,
4114   debugfootnotedirection / off .code:n = \footdir@debugfalse ,
4115   debugfootnotedirection .default:n = on
4116 }
4117 \keys_define:nn { bidi }
4118 {
4119   footnoterule .choice: ,
4120   footnoterule / automatic .code:n = \AtEndOfPackage{\autofootnoterule} ,
4121   footnoterule / left .code:n = \AtEndOfPackage{\leftfootnoterule} ,
4122   footnoterule / right .code:n = \AtEndOfPackage{\rightfootnoterule} ,
4123   footnoterule / split .code:n = \AtEndOfPackage{\SplitFootnoteRule} ,
4124   footnoterule / textwidth .code:n = \AtEndOfPackage{\textwidthfootnoterule}
4125 }
4126 \keys_define:nn { bidi }
4127 {
4128   extrafootnotefeatures .choice: ,
4129   extrafootnotefeatures / on .code:n = \@extrafootnotefeaturestrue ,
4130   extrafootnotefeatures / off .code:n = \@extrafootnotefeaturesfalse ,

```



```

4131   extrafootnotefeatures .default:n = on
4132 }
4133 \keys_define:nn { bidi }
4134 {
4135   script .choice: ,
4136   script / latin .code:n = \@nonlatinfalse ,
4137   script / nonlatin .code:n = \@nonlatintrue ,
4138   script .default:n = latin
4139 }
4140 \keys_define:nn { bidi }
4141 {
4142   DetectColumn .choice: ,
4143   DetectColumn / on .code:n =
4144     \def\bidi@firstcolumn@status@write{%
4145       \protected@write\@auxout{%
4146         {\string\bidi@column@status
4147           {1}}}
4148     \def\bidi@lastcolumn@status@write{%
4149       \protected@write\@auxout{%
4150         {\string\bidi@column@status{2}}} ,
4151   DetectColumn / off .code:n =
4152     \let\bidi@firstcolumn@status@write\relax
4153     \let\bidi@lastcolumn@status@write\relax ,
4154   DetectColumn .default:n = on
4155 }
4156 \keys_define:nn { bidi }
4157 {
4158   logo .choice: ,
4159   logo / on .code:n = \@AtEndOfPackage{\@AtBeginDocument{\@bidi@inslogo}} ,
4160   logo / off .code:n = \let\@bidi@logo@\@empty \let\@bidi@inslogo@\@empty ,
4161   logo .default:n = on
4162 }
4163 \keys_define:nn { bidi }
4164 {
4165   pdfinfo .choice: ,
4166   pdfinfo / on .code:n = \@bidi@pdfm@marktrue ,
4167   pdfinfo / off .code:n = \@bidi@pdfm@markfalse ,
4168   pdfinfo .default:n = on
4169 }
4170 % The `perpagefootnote' option is documented in UK TeX FAQ at
4171 % <https://texfaq.org/FAQ-footnpp> (see last paragraph)
4172 \keys_define:nn { bidi }
4173 {
4174   perpagefootnote .choice: ,
4175   perpagefootnote / on .code:n = \@bidi@perpage@footnotetrue ,
4176   perpagefootnote / off .code:n = \@bidi@perpage@footnotefalse ,
4177   perpagefootnote .default:n = on
4178 }
4179 \keys_set:nn { bidi }
4180 {
4181   banner = on ,
4182   PDFbanner = on ,
4183   DetectColumn = off
4184 }

```



```

4185 }
4186 \ExplSyntaxOff
4187 \ProcessKeyOptions
4188 \edef\@bidi@info{*****~J%
4189 * ~J%
4190 * bidi package (Bidirectional typesetting in~J%
4191 * plain TeX and LaTeX, using XeTeX engine)~J%
4192 * ~J%
4193 * Description: A convenient interface for~J%
4194 * typesetting bidirectional texts in plain TeX~J%
4195 * and LaTeX. The package includes adaptations~J%
4196 * for use with many other commonly-used packages.~J%
4197 * ~J%
4198 * Copyright (c) 2007--2025 Vafa Khalighi~J%
4199 * Copyright (c) 2018--2020 bidi-tex GitHub organization~J%
4200 * ~J%
4201 * v\bidi@version\space (Release \bidi@releasename), \bididate~J%
4202 * ~J%
4203 * License: LaTeX Project Public License, version~J%
4204 * 1.3c or higher (your choice)~J%
4205 * ~J%
4206 * Location on CTAN: /macros/xetex/latex/bidi~J%
4207 * ~J%
4208 * Issue tracker: https://github.com/xepersian/bidi/issues~J%
4209 * ~J%
4210 * Discussions: https://github.com/xepersian/bidi/discussions~J%
4211 * ~J%
4212 * Primary author of bidi package: Vafa Khalighi.~J%
4213 * ~J%
4214 *****}
4215 \edef\bidi@everyjob{\the\everyjob}
4216 \if@bidi@banner
4217 \typeout{\@bidi@info}
4218 \everyjob{\bidi@everyjob\typeout{\@bidi@info}}
4219 \fi
4220 \newcommand*\bidi@version{\ensuremath\bidi@version}
4221 \newcommand*\IfbidiPackageVersionLater}[1]{%
4222 \ifdim\bidi@version pt > #1 pt %
4223 \expandafter\@firstoftwo
4224 \else
4225 \expandafter\@secondoftwo
4226 \fi}
4227 \newcommand*\IfbidiPackageVersionBefore}[1]{%
4228 \ifdim\bidi@version pt < #1 pt %
4229 \expandafter\@firstoftwo
4230 \else
4231 \expandafter\@secondoftwo
4232 \fi}
4233 \newcommand*\IfbidiPackageVersion}[1]{%
4234 \ifdim\bidi@version pt = #1 pt %
4235 \expandafter\@firstoftwo
4236 \else
4237 \expandafter\@secondoftwo
4238 \fi}

```



```

4239 \RequirePackage{iftex}
4240 \RequireXeTeX
4241 \RequirePackage{bidiutils}
4242 \RequirePackage{zref-abspage}
4243 \RequirePackage{auxhook}
4244 \RequirePackage{ltxcmds}
4245 \eqnewif{\if@RTLmain}{\if@rlmain}
4246 \eqnewif{\if@RTL}{\if@rl}
4247 \newcommand*\setlatin{\@nonlatinfalse}
4248 \newcommand*\setnonlatin{\@nonlatintrue}
4249 \eqnewif{\if@RTLtab}{\if@tab@rl}
4250 \newif\if@hboxRconstruct
4251 \newif\if@bidi@pdfencrypt
4252 \newcommand*\setRTLtable{\@RTLtabtrue}
4253 \newcommand*\setLTRtable{\@RTLtabfalse}
4254 \newif\if@RTLMarginpar
4255 \newif\if@LTRmarginpar
4256 \newif\if@LTRbibitems
4257 \newif\if@RTLbibitems
4258 \eqnewif{\if@RTL@footnote}{\if@rl@footnote}
4259 \newif\if@bidi@list@minipage@parbox
4260 \newif\if@bidi@list@minipage@parbox@not@nob
4261 \newcommand*\@bidi@pdfcreator{%
4262   The bidi package, v\bidi@version\space (Release \bidi@releasename), \bididate
4263 }
4264 \newcommand*\@bidi@pdfproducer{%
4265   The bidi package, v\bidi@version\space (Release \bidi@releasename), \bididate
4266 }
4267 \newcommand*\@bidi@pdfcustomproperties{%
4268   This is the bidi package, Version \bidi@version\space (Release \bidi@releasename),
4269   Released January 3, 2025.
4270 }
4271 \newcommand*\bidi@beamer@ragged{}
4272 \@RTLmainfalse
4273 \AtBeginDocument{%
4274   \if@RTLmain\else
4275     \if@RTL\@RTLmaintrue%
4276     \else\@RTLmainfalse%
4277     \fi%
4278   \fi%
4279 }
4280 \let\n@xt=\
4281 \bidi@newrobustcmd*\LRE{\protect\pLRE}%
4282 \def\pLRE{\protect\afterassignment\moreLRE \let\n@xt= }
4283 \bidi@newrobustcmd*\RLE{\protect\pRLE}
4284 \def\pRLE{\protect\afterassignment\moreRLE \let\n@xt= }
4285 \def\bracetext{\ifcat\n@xt{\else\ifcat\n@xt}\fi
4286   \errmessage{Missing left brace has been substituted}\fi \bgroup}
4287 \newinsert\@bidi@copyins@
4288 \skip\@bidi@copyins@=12\p@
4289 \dimen\@bidi@copyins@=40pc
4290 \count\@bidi@copyins@=1000
4291 \newcommand*\@bidi@inslogo@\@insert\@bidi@copyins@\@bidi@logo@}
4292 \newcommand*\@bidi@logo@hb@xt@columnwidth}{%

```



```

4293 \if@RTLmain
4294   \if@twocolumn
4295     \hboxR to \columnwidth
4296   \else
4297     \hboxR to \textwidth
4298   \fi
4299 \else
4300   \if@twocolumn
4301     \hboxL to \columnwidth
4302   \else
4303     \hboxL to \textwidth
4304   \fi
4305 \fi
4306 }
4307 \newcommand*{\@bidi@logo}[1]{%
4308   \toks@{%
4309     \setbox\z@\hbox{%
4310       \special{%
4311         pdf:image width 50pt height 50pt (#1)%
4312       }
4313     }%
4314     \dp\z@\z@
4315     \ht\z@=50pt
4316     \wd\z@=50pt
4317     \beginL
4318       \lower20pt\box\z@
4319     \endL
4320   }%
4321   \the\toks@
4322 }
4323 \newcount\bidi@typesethour
4324 \newcount\bidi@typesetminute
4325 \bidi@typesethour=\time
4326 \divide\bidi@typesethour 60
4327 \bidi@typesetminute=-\bidi@typesethour
4328 \multiply\bidi@typesetminute 60
4329 \advance\bidi@typesetminute \time
4330 \newcommand*{\TypesetHour}{\two@digits\bidi@typesethour}
4331 \newcommand*{\TypesetMinute}{\two@digits\bidi@typesetminute}
4332 \newcommand*{\TypesetTime}{\TypesetHour:\TypesetMinute}
4333 \newcommand*{\@bidi@logo@}{%
4334   \@bidi@logo@hb@xt@columnwidth
4335   {\hss\LRE{\bfseries Typeset {\today} at {\TypesetTime} by the \textsf{bidi}
4336     package\quad\@bidi@logo{bidi-logo.pdf}}}}
4337 \ExplSyntaxOn
4338 \keys_define:nn { bidi / pdfencrypt }
4339 {
4340   userpassword .code:n = \def\bidi@pdfencrypt@userpassword{#1} ,
4341   userpassword .default:n =
4342 }
4343 \keys_define:nn { bidi / pdfencrypt }
4344 {
4345   ownerpassword .code:n = \def\bidi@pdfencrypt@ownerpassword{#1} ,
4346   ownerpassword .default:n =

```





```

4347 }
4348 \keys_define:nn { bidi / pdfencrypt }
4349 {
4350   keylength .code:n = \def\bidi@pdfencrypt@keylength{#1} ,
4351   keylength .default:n = 128
4352 }
4353 \keys_define:nn { bidi / pdfencrypt }
4354 {
4355   permissionflags .code:n = \def\bidi@pdfencrypt@permissionflags{#1} ,
4356   permissionflags .default:n = 2052
4357 }
4358 \NewDocumentCommand \pdfencryptsetup {m} { \keys_set:nn { bidi / pdfencrypt } {#1} }
4359 \ExplSyntaxOff
4360 \@onlypreamble\pdfencryptsetup
4361 \input{latex-xetex-bidi.def}
4362
4363 \pdfencryptsetup{%
4364   userpassword,%
4365   ownerpassword,%
4366   keylength,%
4367   permissionflags%
4368 }
4369
4370 \if@extrafootnotefeatures
4371   \input{extrafootnotefeatures-xetex-bidi.def}
4372 \fi
4373 \newcount\bidi@digits
4374 \XeTeXinterchartokenstate=\@ne
4375 \newXeTeXintercharclass\bidi@digits@charclass
4376 \newXeTeXintercharclass\bidi@sepmark@charclass
4377 \XeTeXcharclass \. \bidi@sepmark@charclass
4378 \XeTeXcharclass \- \bidi@sepmark@charclass
4379 \bidi@digits=\0 \loop \XeTeXcharclass \bidi@digits \bidi@digits@charclass \ifnum\bidi@digit
4380 \bidi@digits=\ \loop \XeTeXcharclass \bidi@digits \bidi@digits@charclass \ifnum\bidi@digit
4381 \bidi@digits=\ \loop \XeTeXcharclass \bidi@digits \bidi@digits@charclass \ifnum\bidi@digit
4382 \XeTeXinterchartoks \bidi@sepmark@charclass \bidi@digits@charclass = {\DigitsDotDashInterCh
4383 \newcommand*{\DigitsDotDashInterCharToks}{\if@nonlatin\char"200F \fi}
4384 \bidi@AtEndPreamble{%
4385   \if@bidi@perpage@footnote
4386     \RequirePackage{bidi-perpage}%
4387     \ResetCounterPerPage{footnote}%
4388   \fi
4389   \ifx\bidi@pdfencrypt@ownerpassword\bidi@empty
4390     \ifx\bidi@pdfencrypt@userpassword\bidi@empty
4391       \@bidi@pdfencryptfalse
4392     \else
4393       \@bidi@pdfencrypttrue
4394     \fi
4395   \else
4396     \@bidi@pdfencrypttrue
4397   \fi
4398   \if@bidi@pdfencrypt
4399     \special{pdf:encrypt
4400       userpw (\bidi@pdfencrypt@userpassword)

```



```

4401     ownerpw (\bidi@pdfencrypt@ownerpassword)
4402     length \bidi@pdfencrypt@keylength
4403     perm \bidi@pdfencrypt@permissionflags
4404   }%
4405 \fi
4406 }
4407 \if@bidi@pdfbanner
4408 \if@bidi@pdfm@mark
4409   \AtEndDocument{%
4410     \special{pdf:%
4411       docinfo<<%
4412         /Creator(\@bidi@pdfcreator)%
4413         /Producer(\@bidi@pdfproducer)%
4414         /BIDI.Fullbanner(\@bidi@pdfcustomproperties)%
4415         \if@bidi@csdef{@xepersian@pdfcustomproperties}{-%
4416           /XEPERSIAN.Fullbanner(\@xepersian@pdfcustomproperties)%
4417         }{}%
4418       >>%
4419     }%
4420   }
4421 \else
4422   \AtEndDocument{%
4423     \special{pdf:%
4424       docinfo<<%
4425         /BIDI.Fullbanner(\@bidi@pdfcustomproperties)%
4426         \if@bidi@csdef{@xepersian@pdfcustomproperties}{-%
4427           /XEPERSIAN.Fullbanner(\@xepersian@pdfcustomproperties)%
4428         }{}%
4429       >>%
4430     }%
4431   }
4432 \fi
4433 \else
4434 \if@bidi@pdfm@mark
4435   \AtEndDocument{%
4436     \special{pdf:%
4437       docinfo<<%
4438         /Creator(\@bidi@pdfcreator)%
4439         /Producer(\@bidi@pdfproducer)%
4440       >>%
4441     }%
4442   }
4443 \fi
4444 \fi

```

## 46 File bidi.tex

```

4445 \def\bidiidate{2025/01/03}
4446 \catcode`@=11
4447 \def\bidi@version{41.0}
4448 \def\bidi@releasename{Maryam Mirzakhani}
4449 \def\bidi@releasename{\bidi@releasename}
4450 \let \protect \relax
4451 \newlinechar`^^J

```



```

4452 \edef\@bidi@info{*****~J%
4453 * ~J%
4454 * bidi package (Bidirectional typesetting in~J%
4455 * plain TeX and LaTeX, using XeTeX engine)~J%
4456 * ~J%
4457 * Description: A convenient interface for~J%
4458 * typesetting bidirectional texts in plain TeX~J%
4459 * and LaTeX. The package includes adaptations~J%
4460 * for use with many other commonly-used packages.~J%
4461 * ~J%
4462 * Copyright (c) 2007--2025 Vafa Khalighi~J%
4463 * Copyright (c) 2018--2020 bidi-tex GitHub organization~J%
4464 * ~J%
4465 * v\bidi@version\space (Release \bidi@releasename), \bididate~J%
4466 * ~J%
4467 * License: LaTeX Project Public License, version~J%
4468 * 1.3c or higher (your choice)~J%
4469 * ~J%
4470 * Location on CTAN: /macros/xetex/latex/bidi~J%
4471 * ~J%
4472 * Issue tracker: https://github.com/xepersian/bidi/issues~J%
4473 * ~J%
4474 * Discussions: https://github.com/xepersian/bidi/discussions~J%
4475 * ~J%
4476 * Primary author of bidi package: Vafa Khalighi.~J%
4477 * ~J%
4478 *****}
4479 \edef\bidi@everyjob{\the\everyjob}
4480 \message{\@bidi@info}
4481 \everyjob{\bidi@everyjob\message{\@bidi@info}}
4482 \def\bidiversion{%
4483   \relax
4484   \ifmode
4485     \bidi@version
4486   \else
4487     $\bidi@version$
4488   \fi
4489 }
4490 \input iftex.sty
4491 \RequireXeTeX
4492 \newif\if@bidi@pdfm@mark
4493 \newif\if@RTLmain
4494 \newif\if@RTL
4495 \newif\if@hboxRconstruct
4496 \newif\if@sentdir
4497 \newif\if@RTL@footnote
4498 \@RTLmainfalse
4499 \def\setRTLmain{%
4500   \if@RTLmain\else
4501     \if@RTL\@RTLmaintrue%
4502     \else\@RTLmainfalse%
4503     \fi%
4504   \fi%
4505 }

```



```

4506 \let\n@xt=\
4507 \protected\def\LRE{\protect\pLRE}%
4508 \def\pLRE{\protect\afterassignment\moreLRE \let\n@xt= }
4509 \protected\def\RLE{\protect\pRLE}
4510 \def\pRLE{\protect\afterassignment\moreRLE \let\n@xt= }
4511 \def\bracetext{\ifcat\n@xt{\else\ifcat\n@xt}\fi
4512 \errmessage{Missing left brace has been substituted}\fi \bgroup}
4513 \newinsert\@bidi@copyins@
4514 \skip\@bidi@copyins@=12\p@
4515 \dimen\@bidi@copyins@=40pc
4516 \count\@bidi@copyins@=1000
4517 \def\@bidi@inslogo@{\insert\@bidi@copyins@{\@bidi@logo@}}
4518 \def\@bidi@logo@hb@xt@{%
4519 \if@RTLmain
4520 \hboxR to
4521 \else
4522 \hboxL to
4523 \fi
4524 }
4525 \def\@bidi@logo#1{%
4526 \toks@{%
4527 \setbox\z@\hbox{%
4528 \special{%
4529 pdf:image width 50pt height 50pt (#1)%
4530 }
4531 }%
4532 \dp\z@\z@
4533 \ht\z@=50pt
4534 \wd\z@=50pt
4535 \beginL
4536 \lower20pt\box\z@
4537 \endL
4538 }%
4539 \the\toks@
4540 }
4541 \def\two@digits#1{\ifnum#1<10 0\fi\number#1}
4542 \newcount\bidi@typesethour
4543 \newcount\bidi@typesetminute
4544 \bidi@typesethour=\time
4545 \divide\bidi@typesethour 60
4546 \bidi@typesetminute=-\bidi@typesethour
4547 \multiply\bidi@typesetminute 60
4548 \advance\bidi@typesetminute \time
4549 \def\TypesetHour{\two@digits\bidi@typesethour}
4550 \def\TypesetMinute{\two@digits\bidi@typesetminute}
4551 \def\TypesetTime{\TypesetHour:\TypesetMinute}
4552 \def\@bidi@logo@{\@bidi@logo@hb@xt@\hsize{\hss\LRE{\bf Typeset {\today} at {\TypesetTime} by
4553 \def\nobidilogo{\let\@bidi@logo@\empty \let\@bidi@inslogo@\empty}
4554 \def\@bidi@pdfcreator{%
4555 The bidi package, v\bidi@version\space (Release \bidi@releasename), \bididate
4556 }
4557 \def\@bidi@pdfproducer{%
4558 The bidi package, v\bidi@version\space (Release \bidi@releasename), \bididate
4559 }

```



```

4560 \def\@bidi@pdfcustomproperties{%
4561   This is the bidi package, Version \bidi@version\space (Release \bidi@releasename),
4562   Released January 3, 2025.
4563 }
4564 \def\bidi@pdfm@mark{%
4565   \special{pdf:%
4566     docinfo<<%
4567     \if\bidi@pdfm@mark
4568       /Creator(\@bidi@pdfcreator)%
4569       /Producer(\@bidi@pdfproducer)%
4570     \fi
4571     /BIDI.Fullbanner(\@bidi@pdfcustomproperties)%
4572     >>%
4573   }%
4574 }
4575 \def\bidipdfinfoon{\@bidi@pdfm@marktrue}
4576 \def\bidipdfinfooff{\@bidi@pdfm@markfalse}
4577 \input plain-xetex-bidi.def
4578 \@bidi@inslogo@
4579 \outer\def\bye{\par\vfill\supereject\bidi@pdfm@mark\end}
4580 \catcode`@=12
4581 \bidipdfinfoon

```

## 47 File bidi2in1.sty

```

4582 \NeedsTeXFormat{LaTeX2e}
4583 \ProvidesPackage{bidi2in1}
4584 \pagestyle{plain}
4585 \newcount\evenpage
4586 \newcount\oddpge
4587 \twocolumn
4588 \def\@oddfont{\evenpage=\thepage%
4589 \multiply\evenpage by 2%
4590 \oddpge=\the\evenpage%
4591 \advance\oddpge by -1%
4592 \hfil\the\evenpage\hfil\hfil\the\oddpge\hfil}%
4593 \def\@evenfont{\evenpage=\thepage%
4594 \multiply\evenpage by 2%
4595 \oddpge=\the\evenpage%
4596 \advance\oddpge by -1%
4597 \hfil\the\oddpge\hfil\hfil\the\evenpage\hfil}%
4598 \textwidth 9.49in
4599 \textheight 6.7in
4600 \columnsep 0.9in
4601 \columnseprule 0.125pt
4602 \headheight 0cm
4603 \topmargin 0in
4604 \marginparwidth 0in
4605 \marginparsep 0in
4606 \hoffset 0.05in % Corrected
4607 \voffset -0.5in %top margin space is 1.0in by default
4608 \oddsidemargin 0in
4609 \evensidemargin 0in
4610 \headsep 0cm

```



```

4611 \topskip 0cm
4612 \parskip 0.15in      %
4613 \headsep Opt
4614 \special{papersize=11.69in,8.26in}
4615 \renewcommand\maketitle{\par
4616 \begingroup
4617 \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
4618 \def\@makefnmark{\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
4619 \long\def\@makefntext##1{\parindent 1em\noindent
4620 \hb@xt@1.8em{%
4621 \hss\@textsuperscript{\normalfont\@thefnmark}}##1}%
4622 \@maketitle
4623 \@thanks
4624 \endgroup
4625 \setcounter{footnote}{0}%
4626 \global\let\thanks\relax
4627 \global\let\maketitle\relax
4628 \global\let\@maketitle\relax
4629 \global\let\@thanks\@empty
4630 \global\let\@author\@empty
4631 \global\let\@date\@empty
4632 \global\let\@title\@empty
4633 \global\let\title\relax
4634 \global\let\author\relax
4635 \global\let\date\relax
4636 \global\let\and\relax
4637 }

```

## 48 File bidicode.sty

```

4638 \NeedsTeXFormat{LaTeX2e}
4639 \ProvidesPackage{bidicode}
4640 \RequirePackage{xcolor}
4641 \RequirePackage{showexpl}
4642 \definecolor{hellgelb}{rgb}{1,1,0.85}
4643 \definecolor{colKeys}{rgb}{0.2,0.4,0.8}
4644 \definecolor{colCS}{rgb}{0.2,0.4,0.8}
4645 \definecolor{colIdentifier}{rgb}{0,0,0}
4646 \definecolor{colComments}{rgb}{1,0,0}
4647 \definecolor{colString}{rgb}{0,0.5,0}
4648 \lstset{%
4649     language=[LaTeX]TeX,%
4650     float=hbp,%
4651     basicstyle=\ttfamily\small,%
4652     identifierstyle=\color{colIdentifier},%
4653     keywordstyle=\color{colKeys},%
4654     texcsstyle=\color{colCS},%
4655     stringstyle=\color{colString},%
4656     commentstyle=\color{colComments},%
4657     backgroundcolor=\color{hellgelb},%
4658     columns=flexible,%
4659     tabsize=4,%
4660     extendedchars=true,%
4661     showspaces=false,%

```



```

4662 showstringspaces=false,%
4663 numbers=left,%
4664 numbersep=0.9em,%
4665 numberstyle=\tiny,%
4666 frame=single,%
4667 captionpos=b,%
4668 xleftmargin=1em,%
4669 breaklines=true,%
4670 breakautoindent=false,%
4671 breakindent=0pt,%
4672 escapeinside=**,%
4673 pos=r,%
4674 explpreset={%
4675     xleftmargin=1em,%
4676     columns=flexible,%
4677     language=[LaTeX]TeX%
4678 },%
4679 moretexcs={%
4680     bididate,%
4681     bidiversion,%
4682     deflatinfont,%
4683     defpersianfont,%
4684     ding,%
4685     endLTR,%
4686     endRTL,%
4687     false,%
4688     falsesymbol,%
4689     junicode,%
4690     lr,%
4691     LR,%
4692     LRE,%
4693     LTR,%
4694     maketitle,%
4695     Nastaliq,%
4696     newfontfamily,%
4697     Parsifont,%
4698     part,%
4699     RL,%
4700     RLE,%
4701     RTL,%
4702     RTLcases,%
4703     SepMark,%
4704     setLR,%
4705     setLTR,%
4706     setRL,%
4707     setRTL,%
4708     settextfont,%
4709     subsection,%
4710     subsubsection,%
4711     tableofcontents,%
4712     text,%
4713     theequation,%
4714     thesection,%
4715     true,%

```



```

4716     truesymbol,%
4717     XePersian,%
4718     xepersiandate,%
4719     xepersianversion%
4720 }%
4721 }
4722 \newcommand\HLON{%
4723   \gdef\lst@alloverstyle##1{%
4724     \fboxrule=Opt
4725     \fboxsep=Opt
4726     \fcolorbox{hellgelb}{hellgelb}{\bfseries\strut##1}%
4727 }}
4728 \newcommand\HLOFF{%
4729   \xdef\lst@alloverstyle##1{##1}%
4730 }
4731 \newcommand\Larg [1]{\normalfont\itshape#1\}/}
4732 \newcommand\Larga[1]{\langle$\Larg{#1}$\rangle$}
4733 \newcommand\Largb[1]{\lcb\Larg{#1}\rcb}
4734 \newcommand\Largs[1]{\lsb\Larg{#1}\rsb}
4735 \newcommand\Largr[1]{\lrb\Larg{#1}\rrb}
4736 \newcommand\LBEG[1]{\normalfont\ttfamily\bs{}begin\lcb#1\rcb}
4737 \newcommand\LEND[1]{\normalfont\ttfamily\bs{}end\lcb#1\rcb}
4738
4739 \DeclareRobustCommand\bs{\normalfont\ttfamily\symbol{92}}
4740 \DeclareRobustCommand\lcb{\normalfont\ttfamily\char`{}}
4741 \DeclareRobustCommand\rcb{\normalfont\ttfamily\char`\}}
4742 \DeclareRobustCommand\lsb{\normalfont\ttfamily[]}
4743 \DeclareRobustCommand\rsb{\normalfont\ttfamily}}
4744 \DeclareRobustCommand\lrb{\normalfont\ttfamily()}
4745 \DeclareRobustCommand\rrb{\normalfont\ttfamily)}}
4746
4747 \def\Lcs#1{\nxLcs{#1}}
4748 \def\LcsStar#1{\nxLcs{#1}\OptArg*{}}
4749 \def\nxLcs#1{\texttt{\symbol{92}#1}}
4750
4751 \def\Coordx#1{${x}_{#1}$}
4752 \def\Coordy#1{${y}_{#1}$}
4753 \def\Coordz#1{${z}_{#1}$}
4754 \def\Coord#1{\Coordx{#1},\kern 1pt\Coordy{#1}}
4755 \def\Coordn{\Coordx{n},\kern 1pt\Coordy{n}}
4756 \def\CoordIII#1{\Coordx{#1},\kern 1pt\Coordy{#1},\kern 1pt\Coordz{#1}}
4757 \def\CAny{\Coordx{},\kern 1pt\Coordy{}}
4758 \def\CIIIAny{\Coordx{},\kern 1pt\Coordy{},\kern 1pt\Coordz{}}
4759 \def\coord#1{(\Coordx{#1},\kern 1pt\Coordy{#1})}
4760 \def\coordn{(\Coordx{n},\kern 1pt\Coordy{n})}
4761 \def\coordiii#1{(\Coordx{#1},\kern 1pt\Coordy{#1},\kern 1pt\Coordz{#1})}
4762 \def\coordx#1{(${x}_{#1}$)}
4763 \def\coordy#1{(${y}_{#1}$)}
4764 \def\coordz#1{(${z}_{#1}$)}
4765 \def\cAny{(\Coordx{},\kern 1pt\Coordy{}}
4766 \def\ciiiiAny{(\Coordx{},\kern 1pt\Coordy{},\kern 1pt\Coordz{}})
4767
4768 \newsavebox{\boxdef}
4769 \newenvironment{BDef}

```





```

4770 {\begin{lrbox}\boxdef
4771   \def\arraystretch{1.0}
4772   \begin{tabular}{@{}l@{}l@{}l@{}}
4773 }
4774 {\end{tabular}\end{lrbox}
4775
4776 {\BCmd\fbbox{\usebox\boxdef}\endBCmd}
4777 \aftergroup\@afterindentfalse\aftergroup\@afterheading
4778 }
4779
4780 \newenvironment{BDef*}
4781 {\begin{lrbox}\boxdef
4782   \def\arraystretch{1.0}
4783   \begin{tabular}{@{}l@{}l@{}l@{}}
4784 }
4785 {\end{tabular}\end{lrbox}
4786 {\begin{BCmd*}\fbbox{\usebox\boxdef}\end{BCmd*}}
4787 \aftergroup\@afterindentfalse\aftergroup\@afterheading
4788 }
4789 \newenvironment{BCmd}{
4790 \@beginparpenalty-\@lowpenalty
4791 \topsep\BDefaboveskip
4792 \fbboxsep3pt
4793 \flushleft}
4794 {\@endparpenalty\@M
4795 \@topsepadd\BDefbelowskip
4796 \endflushleft}
4797
4798 \newenvironment{BCmd*}{
4799 \@beginparpenalty\@M
4800 \topsep\BDefinlineskip
4801 \fbboxsep3pt
4802 \flushleft}
4803 {\@endparpenalty5000
4804 \endflushleft}
4805
4806 \newskip\BDefaboveskip
4807 \newskip\BDefbelowskip
4808 \newskip\BDefinlineskip
4809 \setlength\BDefaboveskip{10pt plus 4pt}
4810 \setlength\BDefbelowskip{6pt}
4811 \setlength\BDefinlineskip{6pt}
4812
4813 \def\OptArgs{\colorbox{black!20}{\texttt{[Options]}}\kern1pt}
4814 \def\OptArg{\@ifnextchar*\OptArg@i{\OptArg@ii*}}
4815 \def\OptArg@i*#1{\colorbox{black!20}{\texttt{#1}}\kern1pt}
4816 \def\OptArg@ii*#1{\colorbox{black!20}{\texttt{[#1]}}\kern1pt}

```

## 49 File bidiftnxtra.sty

```

4817 \NeedsTeXFormat{LaTeX2e}
4818 \ProvidesPackage{bidiftnxtra}
4819 \newtoks\bidip@ftn
4820 \let\FN@sf@footnote\footnote

```



```

4821 \let\FN@sf@LTRfootnote\LTRfootnote
4822 \let\FN@sf@RTLfootnote\RTLfootnote
4823 \def\footnote{\ifx\protect\@typeset@protect
4824   \expandafter\FN@sf@footnote
4825   \else
4826   \expandafter\FN@sf@gobble@opt
4827   \fi
4828 }
4829 \def\LTRfootnote{\ifx\protect\@typeset@protect
4830   \expandafter\FN@sf@LTRfootnote
4831   \else
4832   \expandafter\FN@sf@gobble@opt
4833   \fi
4834 }
4835 \def\RTLfootnote{\ifx\protect\@typeset@protect
4836   \expandafter\FN@sf@RTLfootnote
4837   \else
4838   \expandafter\FN@sf@gobble@opt
4839   \fi
4840 }
4841 \edef\FN@sf@gobble@opt{\noexpand\protect
4842   \expandafter\noexpand\csname FN@sf@gobble@opt \endcsname}
4843 \expandafter\def\csname FN@sf@gobble@opt \endcsname{%
4844   \@ifnextchar[%]
4845     \FN@sf@gobble@twobrace
4846     \@gobble
4847 }
4848 \def\FN@sf@gobble@twobrace[#1]#2{}
4849 \let\FN@sf@footnotemark\footnotemark
4850 \def\footnotemark{\ifx\protect\@typeset@protect
4851   \expandafter\FN@sf@footnotemark
4852   \else
4853   \expandafter\FN@sf@gobble@optonly
4854   \fi
4855 }
4856 \edef\FN@sf@gobble@optonly{\noexpand\protect
4857   \expandafter\noexpand\csname FN@sf@gobble@optonly \endcsname}
4858 \expandafter\def\csname FN@sf@gobble@optonly \endcsname{%
4859   \@ifnextchar[%]
4860     \FN@sf@gobble@bracket
4861     {}%
4862 }
4863 \def\FN@sf@gobble@bracket[#1]{}
4864 \def\@tabular{%
4865   \leavevmode \hbox \bgroup
4866   \let\@footnotetext\@bidi@p@ftntext
4867   \let\@LTRfootnotetext\@bidi@p@LTRftntext
4868   \let\@RTLfootnotetext\@bidi@p@RTLftntext
4869   \let\@xfootnotenext\@bidi@p@xftntext
4870   \let\@xfootnote\@bidi@p@xfootnote
4871   \let\@xLTRfootnotenext\@bidi@p@xLTRftntext
4872   \let\@xLTRfootnote\@bidi@p@xLTRfootnote
4873   \let\@xRTLfootnotenext\@bidi@p@xRTLftntext
4874   \let\@xRTLfootnote\@bidi@p@xRTLfootnote

```



```

4875 \if@RTLtab\beginR \fi
4876 $\let\@acol\@tabacol
4877 \let\@classz\@tabclassz
4878 \let\@classiv\@tabclassiv \let\\\@tabularcr\@tabarray}
4879 \def\endtabular{\crr\egroup\if@RTLtab\egroup\endR\egroup\fi
4880 \egroup $\if@RTLtab\endR\fi\egroup
4881 \ifx\@cuptype\@undefined
4882 \global\@bidi@p@ftn\expandafter{\expandafter}\the\@bidi@p@ftn\fi}
4883 \long\def\@bidi@p@ftntext#1{%
4884 \edef\@tempy{\the\@bidi@p@ftn\noexpand\footnotetext[\the\csname c@\@mpfn\endcsname]}%
4885 \global\@bidi@p@ftn\expandafter{\@tempy{#1}}}%
4886 \long\def\@bidi@p@LTRftntext#1{%
4887 \edef\@tempyi{\the\@bidi@p@ftn\noexpand\LTRfootnotetext[\the\csname c@\@mpfn\endcsname]}%
4888 \global\@bidi@p@ftn\expandafter{\@tempyi{#1}}}%
4889 \long\def\@bidi@p@RTLftntext#1{%
4890 \edef\@tempyii{\the\@bidi@p@ftn\noexpand\RTLfootnotetext[\the\csname c@\@mpfn\endcsname]}%
4891 \global\@bidi@p@ftn\expandafter{\@tempyii{#1}}}%
4892
4893
4894 \long\def\@bidi@p@xftntext[#1]#2{%
4895 \global\@bidi@p@ftn\expandafter{\the\@bidi@p@ftn\footnotetext[#1]{#2}}}
4896
4897 \long\def\@bidi@p@xLTRftntext[#1]#2{%
4898 \global\@bidi@p@ftn\expandafter{\the\@bidi@p@ftn\LTRfootnotetext[#1]{#2}}}
4899
4900 \long\def\@bidi@p@xRTLftntext[#1]#2{%
4901 \global\@bidi@p@ftn\expandafter{\the\@bidi@p@ftn\RTLfootnotetext[#1]{#2}}}
4902
4903
4904 \def\@bidi@p@xfootnote[#1]{%
4905 \begingroup
4906 \csname c@\@mpfn\endcsname #1\relax
4907 \unrestored@protected@xdef\@thefnmark{\thempfn}%
4908 \endgroup
4909 \@footnotemark\@bidi@p@xftntext[#1]}
4910
4911
4912 \def\@bidi@p@xLTRfootnote[#1]{%
4913 \begingroup
4914 \csname c@\@mpfn\endcsname #1\relax
4915 \unrestored@protected@xdef\@thefnmark{\thempfn}%
4916 \endgroup
4917 \@footnotemark\@bidi@p@xLTRftntext[#1]}
4918
4919
4920 \def\@bidi@p@xRTLfootnote[#1]{%
4921 \begingroup
4922 \csname c@\@mpfn\endcsname #1\relax
4923 \unrestored@protected@xdef\@thefnmark{\thempfn}%
4924 \endgroup
4925 \@footnotemark\@bidi@p@xRTLftntext[#1]}
4926
4927 \def\@xfloat #1[#2]{%
4928 \@nodocument

```



```

4929 \def \@capytype {#1}%
4930 \def \@fps {#2}%
4931 \@onelevel@sanitize \@fps
4932 \def \reserved@b {!}%
4933 \ifx \reserved@b \@fps
4934   \@fpsaddefault
4935 \else
4936   \ifx \@fps \@empty
4937     \@fpsaddefault
4938   \fi
4939 \fi
4940 \ifhmode
4941   \@bsphack
4942   \@floatpenalty -\@Mii
4943 \else
4944   \@floatpenalty-\@Miii
4945 \fi
4946 \ifinner
4947   \@parmoderr\@floatpenalty\z@
4948 \else
4949   \@next\@currbox\@freelist
4950   {%
4951     \@tempcnta \sixt@n
4952     \expandafter \@tfor \expandafter \reserved@a
4953     \expandafter :\expandafter =\@fps
4954     \do
4955     {%
4956       \if \reserved@a h%
4957         \ifodd \@tempcnta
4958       \else
4959         \advance \@tempcnta \@ne
4960       \fi
4961     \fi
4962     \if \reserved@a t%
4963       \@setfpsbit \tw@
4964     \fi
4965     \if \reserved@a b%
4966       \@setfpsbit 4%
4967     \fi
4968     \if \reserved@a p%
4969       \@setfpsbit 8%
4970     \fi
4971     \if \reserved@a !%
4972       \ifnum \@tempcnta>15
4973         \advance\@tempcnta -\sixt@n\relax
4974       \fi
4975     \fi
4976   }%
4977   \@tempcntb \csname ftype@\@capytype \endcsname
4978   \multiply \@tempcntb \xxxii
4979   \advance \@tempcnta \@tempcntb
4980   \global \count\@currbox \@tempcnta
4981   }%
4982 \@fltovf

```



```

4983 \fi
4984 \global \setbox\@currbox
4985   \color@vbox
4986   \normalcolor
4987   \vbox \bgroup
4988   \let\@footnotetext\@bidi@p@ftntext
4989   \let\@LTRfootnotetext\@bidi@p@LTRftntext
4990   \let\@RTLfootnotetext\@bidi@p@RTLftntext
4991   \let\@xfootnotenext\@bidi@p@xftntext
4992   \let\@xfootnote\@bidi@p@xfootnote
4993   \let\@xLTRfootnotenext\@bidi@p@xLTRftntext
4994   \let\@xLTRfootnote\@bidi@p@xLTRfootnote
4995   \let\@xRTLfootnotenext\@bidi@p@xRTLftntext
4996   \let\@xRTLfootnote\@bidi@p@xRTLfootnote
4997   \hsize\columnwidth
4998   \@parboxrestore
4999   \@floatboxreset
5000 }
5001 \def \@endfloatbox{%
5002   \par\vskip\z@skip      %% \par\vskip\z@ added 15 Dec 87
5003   \@minipagefalse
5004   \outer@nobreak
5005   \egroup                %% end of vbox
5006   \global\@bidi@p@ftn\@expandafter{\@expandafter}\the\@bidi@p@ftn
5007   \color@endbox
5008 }

```

## 50 File bidimoderncv.cls

```

5009 \NeedsTeXFormat{LaTeX2e}
5010 \ProvidesClass{bidimoderncv}
5011 \newif\if@DEBUG\@DEBUGfalse
5012 \DeclareOption{a4paper}{
5013   \setlength\paperheight{297mm}
5014   \setlength\paperwidth{210mm}}
5015 \DeclareOption{a5paper}{
5016   \setlength\paperheight{210mm}
5017   \setlength\paperwidth{148mm}}
5018 \DeclareOption{b5paper}{
5019   \setlength\paperheight{250mm}
5020   \setlength\paperwidth{176mm}}
5021 \DeclareOption{letterpaper}{
5022   \setlength\paperheight{11in}
5023   \setlength\paperwidth{8.5in}}
5024 \DeclareOption{legalpaper}{
5025   \setlength\paperheight{14in}
5026   \setlength\paperwidth{8.5in}}
5027 \DeclareOption{executivepaper}{
5028   \setlength\paperheight{10.5in}
5029   \setlength\paperwidth{7.25in}}
5030 \DeclareOption{landscape}{
5031   \setlength\@tempdima{\paperheight}
5032   \setlength\paperheight{\paperwidth}
5033   \setlength\paperwidth{\@tempdima}}

```



```

5034 \newcommand\@ptsize{}
5035 \DeclareOption{10pt}{\renewcommand\@ptsize{0}}
5036 \DeclareOption{11pt}{\renewcommand\@ptsize{1}}
5037 \DeclareOption{12pt}{\renewcommand\@ptsize{2}}
5038 \DeclareOption{draft}{\setlength\overfullrule{5pt}}
5039 \DeclareOption{final}{\setlength\overfullrule{0pt}}
5040 \newif\if@colour\@colourtrue
5041 \DeclareOption{nocolour}{\@colourfalse}
5042 \ExecuteOptions{a4paper,11pt,colour,final}
5043 \ProcessOptions\relax
5044 \input{size1\@ptsize.clo}
5045 \RequirePackage{color}
5046 \RequirePackage{graphicx}
5047 \RequirePackage{ifthen}
5048 \RequirePackage{marvosym}
5049 \addtolength{\oddsidemargin}{-54pt}
5050 \addtolength{\textwidth}{109pt}
5051 \addtolength{\topmargin}{-70pt}
5052 \addtolength{\textheight}{122pt}
5053 \addtolength{\marginparsep}{-5pt}
5054 \addtolength{\marginparwidth}{-10pt}
5055 \RequirePackage{url}
5056 \RequirePackage{hyperref}
5057 \hypersetup{%
5058   breaklinks,
5059   baseurl      = http://,%
5060   pdfborder    = 0 0 0,%
5061   pdfpagemode  = UseNone,%
5062   pdfstartpage = 1}
5063 \AtEndOfClass{%
5064   \AtBeginDocument{%
5065     \hypersetup{%
5066       pdfauthor    = \@firstname~\@familyname,%
5067       pdftitle     = \@title,%
5068       pdfsubject   = \@firstname~\@familyname,%
5069       pdfkeywords  = \@resumename~\@firstname~\@familyname}}}
5070 \urlstyle{tt}
5071 \RequirePackage{fancyhdr}
5072 \fancypagestyle{plain}{%
5073   \renewcommand{\headrulewidth}{0pt}
5074   \renewcommand{\footrulewidth}{0pt}
5075   \fancyhf{}}
5076 \pagestyle{plain}
5077 \setlength\lineskip{1\p@}
5078 \setlength\normallineskip{1\p@}
5079 \renewcommand\baselinestretch{}
5080 \setlength{\parindent}{0pt}
5081 \setlength{\parskip}{0pt}
5082 \setlength\columnsep{10\p@}
5083 \setlength\columnseprule{0\p@}
5084 \pagestyle{empty}
5085 \pagenumbering{arabic}
5086 \raggedbottom
5087 \onecolumn

```



```

5088 \providecommand*\listitemsymbol{\textbullet}
5089 \providecommand*\addresssymbol{}
5090 \providecommand*\mobilesymbol{\Mobilefone}
5091 \providecommand*\phonesymbol{\Telefon}
5092 \providecommand*\faxsymbol{\FAX}
5093 \providecommand*\emailsymbol{\Letter}
5094 \definecolor{firstnamecolor}{rgb}{0,0,0}
5095 \def\firstnamecolour#1{\gdef\@firstnamecolour{\addfontfeature{Color=#1}}}
5096 \def\familynamcolour#1{\gdef\@familynamecolour{\addfontfeature{Color=#1}}}
5097 \def\titlecolour#1{\gdef\@titlecolour{\addfontfeature{Color=#1}}}
5098 \def\addresscolour#1{\gdef\@addresscolour{\addfontfeature{Color=#1}}}
5099 \def\quotecolour#1{\gdef\@quotecolour{\addfontfeature{Color=#1}}}
5100 \def\sectiontitlecolour#1{\gdef\@sectiontitlecolour{\addfontfeature{Color=#1}}}
5101 \definecolor{sectionrectanglecolor}{rgb}{0,0,0}
5102 \def\subsectioncolour#1{\gdef\@subsectioncolour{\addfontfeature{Color=#1}}}
5103 \def\hintcolour#1{\gdef\@hintcolour{\addfontfeature{Color=#1}}}
5104 \providecommand*\firstnamefont{}
5105 \providecommand*\familynamefont{}
5106 \providecommand*\titlefont{}
5107 \providecommand*\addressfont{}
5108 \providecommand*\quoteftfont{}
5109 \providecommand*\sectionfont{}
5110 \providecommand*\subsectionfont{}
5111 \providecommand*\hintfont{\small}
5112 \providecommand*\firstnamestyle[1]{\@firstnamefont\@firstnamecolour#1}
5113 \providecommand*\familynamestyle[1]{\@familynamefont\@familynamecolour#1}
5114 \providecommand*\titlestyle[1]{\@titlefont\@titlecolour#1}
5115 \providecommand*\addresstyle[1]{\@addressfont\@addresscolour#1}
5116 \providecommand*\quotestyle[1]{\@quotefont\@quotecolour#1}
5117 \providecommand*\sectionstyle[1]{\@sectionfont\@sectiontitlecolour#1}
5118 \providecommand*\subsectionstyle[1]{\@subsectionfont\@subsectioncolour#1}
5119 \providecommand*\hintstyle[1]{\@hintfont\@hintcolour#1}
5120 \newcommand*\cvtheme[2]{}
5121 \def\@cvtheme{#2}
5122 \def\@cvthemeoptions{#1}
5123 \cvtheme{bidi-casual}
5124 \AtBeginDocument{\RequirePackage[\@cvthemeoptions]{cvtheme\@cvtheme}}
5125 \newcommand*\resumename[1]{\def\@resumename{#1}}
5126 \newcommand*\firstname[1]{\def\@firstname{#1}}
5127 \newcommand*\familyname[1]{\def\@familyname{#1}}
5128 \renewcommand*\title[1]{\def\@title{#1}}
5129 \newcommand*\address[1]{\def\@address{#1}}
5130 \newcommand*\mobile[1]{\def\@mobile{#1}}
5131 \newcommand*\phone[1]{\def\@phone{#1}}
5132 \renewcommand*\fax[1]{\def\@fax{#1}}
5133 \newcommand*\email[1]{\def\@email{#1}}
5134 \newcommand*\extrainfo[1]{\def\@extrainfo{#1}}
5135 \def\@photowidth{0pt}
5136 \newcommand*\photo[2][64pt]{\def\@photowidth{#1}\def\@photo{#2}}
5137 \newcommand*\quote[1]{\def\@quote{#1}}
5138 \newlength{\quotewidth}
5139 \newlength{\hintscolumnwidth}
5140 \newlength{\separatorcolumnwidth}
5141 \setlength{\separatorcolumnwidth}{0.025\textwidth}

```



```

5142 \newlength{\maincolumnwidth}
5143 \newlength{\doubleitemmaincolumnwidth}
5144 \newlength{\listitemsymbolwidth}
5145 \settowidth{\listitemsymbolwidth}{\listitemsymbol{}}~}
5146 \newlength{\listitemmaincolumnwidth}
5147 \newlength{\listdoubleitemmaincolumnwidth}
5148 \newcommand*\recomputethemlengths}{%
5149 \newcommand*\recomputelengths}{%
5150 \setlength{\quotewidth}{0.65\textwidth}%
5151 \setlength{\maincolumnwidth}{\textwidth}%
5152 \addtolength{\maincolumnwidth}{-\separatorcolumnwidth}%
5153 \addtolength{\maincolumnwidth}{-\hintscolumnwidth}%
5154 \setlength{\listitemmaincolumnwidth}{\maincolumnwidth}%
5155 \addtolength{\listitemmaincolumnwidth}{-\listitemsymbolwidth}%
5156 \setlength{\doubleitemmaincolumnwidth}{\maincolumnwidth}%
5157 \addtolength{\doubleitemmaincolumnwidth}{-\hintscolumnwidth}%
5158 \addtolength{\doubleitemmaincolumnwidth}{-\separatorcolumnwidth}%
5159 \setlength{\doubleitemmaincolumnwidth}{0.5\doubleitemmaincolumnwidth}%
5160 \setlength{\listdoubleitemmaincolumnwidth}{\maincolumnwidth}%
5161 \addtolength{\listdoubleitemmaincolumnwidth}{-\listitemsymbolwidth}%
5162 \setlength{\listdoubleitemmaincolumnwidth}{0.475\listdoubleitemmaincolumnwidth}%
5163 \renewcommand{\headwidth}{\textwidth}%
5164 \recomputethemlengths}
5165 \setlength{\hintscolumnwidth}{0.15\textwidth}
5166 \recomputelengths
5167 \title{}
5168 \renewcommand*\maketitle{}
5169 \newcommand*\section}[1]{%
5170 \vspace*{2.5ex \@plus 1ex \@minus .2ex}%
5171 \phantomsection}%
5172 \addcontentsline{toc}{part}{#1}%
5173 \parbox[m]{\hintscolumnwidth}{\bidi@raggedleft\hintfont{\leavevmode\color{sectionrectangle}
5174 \hspace{\separatorcolumnwidth}}%
5175 \parbox[m]{\maincolumnwidth}{\sectionstyle{#1}}\}[1ex]}
5176 \newcommand*\subsection}[1]{%
5177 \cvline[0.45em]{\subsectionstyle{#1}}
5178 \newcommand*\cvline}[3][.25em]{%
5179 \begin{tabular}{@{}p{\hintscolumnwidth}@{\hspace{\separatorcolumnwidth}}p{\maincolumnwidth}
5180 \bidi@raggedleft\hintfont{#2} &{#3}}%
5181 \end{tabular}}\}[#1]}
5182 \newcommand*\cvdoubleitem}[4]{%
5183 \cvline{#1}{\begin{minipage}[t]{\doubleitemmaincolumnwidth}#2\end{minipage}}%
5184 \hfill%
5185 \begin{minipage}[t]{\hintscolumnwidth}\bidi@raggedleft\hintfont{#3}\end{minipage}\hspace*{\
5186 \newcommand*\cvlistitem}[2][\listitemsymbol]{%
5187 \cvline[Opt]{\begin{minipage}[t]{\listitemmaincolumnwidth}#2\end{minipage}}
5188 \newcommand*\cvlistdoubleitem}[3][\listitemsymbol]{%
5189 \cvline[Opt]{\begin{minipage}[t]{\listdoubleitemmaincolumnwidth}#2\end{minipage}}%
5190 \hfill%
5191 \ifthenelse{\equal{#3}{}}%
5192 {}%
5193 {#1-\begin{minipage}[t]{\listdoubleitemmaincolumnwidth}#3\end{minipage}}}}
5194 \newcommand*\cventry}[6]{%
5195 \cvline{#1}{%

```





```

5196     {\bfseries#2}%
5197     \ifx#3\else{, {\slshape#3}}\fi%
5198     \ifx#4\else{, #4}\fi%
5199     \ifx#5\else{, #5}\fi%
5200     .%
5201     \ifx#6\else{\newline}\begin{minipage}[t]{\linewidth}\small#6\end{minipage}}\fi
5202     }%
5203 \newcommand*{\cvlanguage}[3]{%
5204   \cvline{#1}{\begin{minipage}[t]{.225\maincolumnwidth}\textbf{#2}\end{minipage}\hfill\begin{minipage}[t]{.775\maincolumnwidth}}{#3}{#4}{#5}}
5205 \newcommand*{\cvcomputer}[4]{%
5206   \cvdoubleitem{#1}{\small#2}{#3}{\small#4}}
5207 \newcommand*{\link}[2][ ]{%
5208   \ifthenelse{\equal{#1}{}}%
5209     {\href{#2}{#2}}%
5210     {\href{#2}{#1}}}
5211 \newcommand*{\httplink}[2][ ]{%
5212   \ifthenelse{\equal{#1}{}}%
5213     {\href{http://#2}{#2}}%
5214     {\href{http://#2}{#1}}}
5215 \newcommand*{\emailink}[2][ ]{%
5216   \ifthenelse{\equal{#1}{}}%
5217     {\href{mailto:#2}{#2}}%
5218     {\href{mailto:#2}{#1}}}
5219 \newif\if@displaypagenumbers\@displaypagenumberstrue
5220 \newcommand*{\nopagenumbers}{\@displaypagenumbersfalse}
5221 \AtBeginDocument{%
5222   \if@displaypagenumbers%
5223     \ifundefined{r@lastpage}{ }{%
5224       \ifthenelse{\pageref{lastpage} > 1}{%
5225         \fancypagestyle{plain}{%
5226           \fancyfoot [r]{\beginL\addressfont\@quotecolour\footnotesize\thepage\beginL\endL\pageref{lastpage}}%
5227         \pagestyle{plain}}}%
5228   \AtEndDocument{\label{lastpage}}%
5229   \fi}
5230 \newlength{\bibindent}
5231 \setlength{\bibindent}{1.5em}
5232 \newcommand*{\bibliographyitemlabel}{\includegraphics{bidi-bibitem.pdf}}
5233 \newenvironment{thebibliography}[1]{%
5234   {%
5235     \section{\refname}%
5236     \small%
5237     \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
5238     \bidi@thebibliography@font@hook%
5239     \begin{list}{\bibliographyitemlabel}%
5240       {%
5241         \setlength{\topsep}{0pt}%
5242         \setlength{\labelwidth}{\hintscolumnwidth}%
5243         \setlength{\labelsep}{\separatorcolumnwidth}%
5244         \leftmargin\labelwidth%
5245         \advance\leftmargin\labelsep%
5246         \@openbib@code%
5247         \usecounter{enumiv}%
5248         \let\p@enumiv\@empty%
5249         \renewcommand\theenumiv{\@arabic\c@enumiv}}%

```



```

5250         \sloppy\clubpenalty4000\widowpenalty4000%
5251     }%
5252     {%
5253         \def\@noitemerr{\@latex@warning{Empty `thebibliography' environment}}%
5254         \end{list}%
5255     }
5256 \newcommand\newblock{\hskip .11em\@plus.33em\@minus.07em}
5257 \let\@openbib@code\empty

```

## 51 File bidi-perpage.sty

```

5258 \NeedsTeXFormat{LaTeX2e}
5259 \ProvidesPackage{bidi-perpage}[2018/10/04 v0.4 Reset counter(s) on every page]
5260 \newcount\bidi@page@count
5261 \bidi@page@count\@ne
5262 \newcommand*\ResetCounterPerPage}[2][\z@]{%
5263     \if@bidi@csundef{bidi@stepcounterhook@#2}{%
5264         \expandafter\gdef\csname bidi@stepcounterhook@#2\endcsname{%
5265             }{}%
5266         \if@bidi@csundef{if@bidi@reset@#2@rerun}{%
5267             \expandafter\newif\csname if@bidi@reset@#2@rerun\endcsname
5268             }{}%
5269         \if@bidi@csundef{bidi@#2@count}{%
5270             \expandafter\newcount\csname bidi@#2@count\endcsname
5271             }{}%
5272         \csname bidi@#2@count\endcsname\z@
5273         \if@bidi@csundef{bidi@previous@page@#2@count}{%
5274             \expandafter\newcount\csname
5275                 bidi@previous@page@#2@count\endcsname
5276             }{}%
5277         \csname bidi@previous@page@#2@count\endcsname\z@
5278         \if@bidi@csundef{bidi@reset@#2@perpage}{%
5279             \bidi@AfterEndDocumentCheckLabelsRerun{%
5280                 \csname if@bidi@reset@#2@rerun\endcsname
5281                 \PackageWarningNoLine{bidi-perpage}{%
5282                     Counter `#2' may not have been reset per page.
5283                     Rerun to reset counter `#2' per page%
5284                 }%
5285             }%
5286         }%
5287     }{}%
5288     \expandafter\gdef\csname bidi@reset@#2@perpage\endcsname{%
5289         \global\advance\csname bidi@#2@count\endcsname\@ne
5290         \if@files@w
5291             \edef\@tempa{%
5292                 \write\@auxout{%
5293                     \string\bidi@counter@page{#2}%
5294                     {\number\csname bidi@#2@count\endcsname}%
5295                     {\noexpand\number\noexpand\bidi@page@count}%
5296                 }%
5297             }%
5298             \@tempa
5299         \fi
5300     \begingroup\expandafter\expandafter\expandafter\endgroup

```



```

5301 \expandafter\ifx\csname bidi@#2@@\number\csname
5302 bidi@#2@count\endcsname\endcsname\relax
5303   \global\csname @bidi@reset@#2@reruntrue\endcsname
5304 \else
5305   \global\csname @bidi@reset@#2@rerunfalse\endcsname
5306   \expandafter\@tempcnta\csname bidi@#2@@\number
5307   \csname bidi@#2@count\endcsname\endcsname\relax
5308   \ifnum\@tempcnta=\csname
5309   bidi@previous@page@#2@count\endcsname
5310   \else
5311     \global\csname
5312     bidi@previous@page@#2@count\endcsname\@tempcnta
5313     \global\csname c@#2\endcsname#1\relax
5314   \fi
5315 \fi
5316 }%
5317 \expandafter\bidi@gappto\csname
5318 bidi@stepcounterhook@#2\endcsname{%
5319   \csname bidi@reset@#2@perpage\endcsname
5320 }%
5321 }
5322 \def\bidi@counter@page#1#2#3{\bidi@namegdef{bidi@#1@#2}#{3}}
5323 \bidi@AtEndOutputPage{%
5324   \global\advance\bidi@page@count\@ne
5325 }

```

## 52 File biditools.sty

```

5326 \NeedsTeXFormat{LaTeX2e}
5327 \ProvidesPackage{biditools}[2025/01/03 v2.6 Programming tools for bidi package]
5328 \providecommand{\@bidi@saveprimitive}[2]{\begingroup\escapechar`\\relax
5329   \edef\@tempa{\string#1}\edef\@tempb{\meaning#1}%
5330   \ifx\@tempa\@tempb \global\let#2#1%
5331   \else
5332     \edef\@tempb{\meaning#2}%
5333     \ifx\@tempa\@tempb
5334       \else
5335         \@latex@error{Unable to properly define \string#2; primitive
5336         \noexpand#1no longer primitive}\@eha
5337     \fi
5338   \fi
5339 \endgroup}
5340 \newtoks\@bidi@envbody
5341 \newtoks\@bidi@emptytoks
5342 \def\bidi@addto@envbody#1{\global\@bidi@envbody\expandafter{\the\@bidi@envbody#1}}
5343 \def\bidi@collect@body#1{%
5344   \@bidi@envbody{\expandafter#1\expandafter{\the\@bidi@envbody}}%
5345   \edef\bidi@process@envbody{\the\@bidi@envbody\noexpand\end{\@currentvir}}%
5346   \@bidi@envbody\@bidi@emptytoks \def\begin@bidi@stack{b}%
5347   \begingroup
5348   \expandafter\let\csname\@currentvir\endcsname\bidi@collect@body
5349   \edef\bidi@process@envbody{\expandafter\noexpand\csname\@currentvir\endcsname}%
5350   \bidi@process@envbody
5351 }

```



```

5352 \def\ bidi@push@begins#1\begin#2{%
5353   \ifx\end#2\else b\expandafter\ bidi@push@begins\fi
5354 }
5355 \def\ bidi@collect@@body#1\end#2{%
5356   \edef\begin@bidi@stack{\ bidi@push@begins#1\begin\end \expandafter\@gobble\begin@bidi@stack
5357   \ifx\@empty\begin@bidi@stack
5358     \endgroup
5359     \@checkend{#2}%
5360     \ bidi@addto@envbody{#1}%
5361   \else
5362     \ bidi@addto@envbody{#1\end{#2}}%
5363   \fi
5364   \ bidi@process@envbody % A little tricky! Note the grouping
5365 }
5366 \long\def\ bidi@addto@long@envbody#1{\global\@bidi@envbody\expandafter{\the\@bidi@envbody#1}}
5367 \long\def\ bidi@collect@long@body#1{%
5368   \@bidi@envbody{\expandafter#1\expandafter{\the\@bidi@envbody}}%
5369   \edef\ bidi@process@envbody{\the\@bidi@envbody\noexpand\end{\@currentenv}}%
5370   \@bidi@envbody\@bidi@emptytoks \def\begin@bidi@stack{b}%
5371   \begingroup
5372   \expandafter\let\csname\@currentenv\endcsname\ bidi@collect@long@@body
5373   \edef\ bidi@process@envbody{\expandafter\noexpand\csname\@currentenv\endcsname}%
5374   \ bidi@process@envbody
5375 }
5376 \long\def\ bidi@push@long@begins#1\begin#2{%
5377   \ifx\end#2\else b\expandafter\ bidi@push@long@begins\fi
5378 }
5379 \long\def\ bidi@collect@long@@body#1\end#2{%
5380   \edef\begin@bidi@stack{\ bidi@push@long@begins#1\begin\end \expandafter\@gobble\begin@bidi@
5381   \ifx\@empty\begin@bidi@stack
5382     \endgroup
5383     \@checkend{#2}%
5384     \ bidi@addto@long@envbody{#1}%
5385   \else
5386     \ bidi@addto@long@envbody{#1\end{#2}}%
5387   \fi
5388   \ bidi@process@envbody % A little tricky! Note the grouping
5389 }
5390 \long\def\ bidi@new@ifnextchar#1#2#3{%
5391   \let\reserved@d= #1%
5392   \def\reserved@a{#2}\def\reserved@b{#3}%
5393   \futurelet\@let@token\ bidi@new@ifnch
5394 }
5395 \def\ bidi@new@ifnch{%
5396   \ifx\@let@token\reserved@d \let\reserved@b\reserved@a \fi
5397   \reserved@b
5398 }
5399 \def\ bidi@matrix@check#1{%
5400   \expandafter\ifx\csname\@currentenv\endcsname#1%
5401   \else\ bidi@matrix@error#1%
5402     \expandafter\@gobble
5403   \fi
5404 }
5405 \def\ bidi@matrix@error#1{%

```



```

5406 \PackageError{biditools}{%
5407 Old form `string#1' should be \string\begin{\expandafter@gobble\string#1}%
5408 }{%
5409 `string#1{...}' is old bidi package syntax whose use is
5410 ill-advised in the old versions of bidi package.%
5411 }%
5412 }
5413 \def\eqnewif#1#2{%
5414 \count@\escapechar \escapechar@m@ne
5415 \let#1\iffalse
5416 \let#2\iffalse
5417 \eq@if#1#2\iftrue
5418 \eq@if#1#2\iffalse
5419 \escapechar\count@}
5420 \def\eq@if#1#2#3{%
5421 \expandafter\def\csname\expandafter@gobbletwo\string#1%
5422 \expandafter@gobbletwo\string#3\endcsname
5423 {\let#1#3%
5424 \let#2#3}%
5425 \expandafter\def\csname\expandafter@gobbletwo\string#2%
5426 \expandafter@gobbletwo\string#3\endcsname
5427 {\let#2#3%
5428 \let#1#3}}
5429 \def\noteqnewif#1#2{%
5430 \count@\escapechar \escapechar@m@ne
5431 \let#1\iffalse
5432 \let#2\iffalse
5433 \not@eq@if#1#2\iftrue\iffalse
5434 \escapechar\count@}
5435 \def\not@eq@if#1#2#3#4{%
5436 \expandafter\def\csname\expandafter@gobbletwo\string#1%
5437 \expandafter@gobbletwo\string#3\endcsname
5438 {\let#1#3%
5439 \let#2#4}%
5440 \expandafter\def\csname\expandafter@gobbletwo\string#1%
5441 \expandafter@gobbletwo\string#4\endcsname
5442 {\let#1#4%
5443 \let#2#3}%
5444 \expandafter\def\csname\expandafter@gobbletwo\string#2%
5445 \expandafter@gobbletwo\string#3\endcsname
5446 {\let#2#3%
5447 \let#1#4}%
5448 \expandafter\def\csname\expandafter@gobbletwo\string#2%
5449 \expandafter@gobbletwo\string#4\endcsname
5450 {\let#2#4%
5451 \let#1#3}}
5452 \newcommand*{\SetBoolean}[2]{%
5453 \lowercase{\def\@tempa{#2}}%
5454 \@ifundefined{\@tempwa\@tempa}%
5455 {\PackageError{biditools}%
5456 {You can only set a boolean to `true' or `false'}\@ehc}%
5457 {\@ifundefined{#1\@tempa}%
5458 {\PackageError{biditools}{Boolean #1 undefined}\@ehc}%
5459 {\csname#1\@tempa\endcsname}}}

```



```

5460 \newcommand*\GlobalSetBoolean}[2]{%
5461   \lowercase{\def\@tempa{#2}}%
5462   \@ifundefined{@tempswa\@tempa}%
5463     {\PackageError{biditytools}%
5464       {You can only set a boolean to `true' or `false'}\@ehc}%
5465     {\@ifundefined{#1\@tempa}%
5466       {\PackageError{biditytools}{Boolean #1 undefined}\@ehc}%
5467       {\global\csname#1\@tempa\endcsname}}}
5468 \newcommand*\SetatBoolean}[2]{%
5469   \lowercase{\def\@tempa{#2}}%
5470   \@ifundefined{@tempswa\@tempa}%
5471     {\PackageError{biditytools}%
5472       {You can only set a boolean to `true' or `false'}\@ehc}%
5473     {\@ifundefined{@#1\@tempa}%
5474       {\PackageError{biditytools}{Boolean @#1 undefined}\@ehc}%
5475       {\csname @#1\@tempa\endcsname}}}
5476 \newcommand*\GlobalSetatBoolean}[2]{%
5477   \lowercase{\def\@tempa{#2}}%
5478   \@ifundefined{@tempswa\@tempa}%
5479     {\PackageError{biditytools}%
5480       {You can only set a boolean to `true' or `false'}\@ehc}%
5481     {\@ifundefined{@#1\@tempa}%
5482       {\PackageError{biditytools}{Boolean @#1 undefined}\@ehc}%
5483       {\global\csname @#1\@tempa\endcsname}}}
5484 \def\@bidi@removefromreset#1#2{%
5485   \expandafter\let\csname c@#1\endcsname\@bidi@removefromreset
5486   \def\@elt##1{%
5487     \expandafter\ifx\csname c@##1\endcsname\@bidi@removefromreset
5488     \else
5489     \noexpand\@elt{##1}%
5490     \fi}%
5491   \expandafter\xdef\csname c1@#2\endcsname{%
5492     \csname c1@#2\endcsname}}}
5493 \newcommand*\ifRtoL{%
5494   \ifRTL
5495     \expandafter\@firstoftwo
5496   \else
5497     \expandafter\@secondoftwo
5498   \fi}
5499 \newcommand*\ifLtoR{%
5500   \ifRTL
5501     \expandafter\@secondoftwo
5502   \else
5503     \expandafter\@firstoftwo
5504   \fi}
5505 \newcommand*\ifRtoLtable{%
5506   \ifRTLTab
5507     \expandafter\@firstoftwo
5508   \else
5509     \expandafter\@secondoftwo
5510   \fi}
5511 \newcommand*\ifLtoRtable{%
5512   \ifRTLTab
5513     \expandafter\@secondoftwo

```



```

5514 \else
5515   \expandafter\@firstoftwo
5516 \fi}
5517 \newcommand*\ifRtoLhboxconstruct}{%
5518   \if@hboxRconstruct
5519   \expandafter\@firstoftwo
5520 \else
5521   \expandafter\@secondoftwo
5522 \fi}
5523 \newcommand*\ifLtoRhboxconstruct}{%
5524   \if@hboxRconstruct
5525   \expandafter\@secondoftwo
5526 \else
5527   \expandafter\@firstoftwo
5528 \fi}
5529 \newcommand*\iflatin}{%
5530   \if@nonlatin
5531   \expandafter\@secondoftwo
5532 \else
5533   \expandafter\@firstoftwo
5534 \fi}
5535 \newcommand*\ifnonlatin}{%
5536   \if@nonlatin
5537   \expandafter\@firstoftwo
5538 \else
5539   \expandafter\@secondoftwo
5540 \fi}
5541
5542 \newcommand*\bidi@convert@dimen@t@unit}[2]{%
5543   \strip@pt\dimexpr #1*65536/\dimexpr 1#2\relax #2}
5544
5545 \newcommand*\bidi@convert@dimen@t@pt}[1]{%
5546   \dimexpr #1*65536/\dimexpr 1pt\relax}
5547
5548 \newcommand*\if@bidi@csdef}[1]{%
5549   \ifcsname#1\endcsname
5550   \expandafter\@firstoftwo
5551 \else
5552   \expandafter\@secondoftwo
5553 \fi}
5554 \newcommand*\if@bidi@csundef}[1]{%
5555   \ifcsname#1\endcsname
5556   \expandafter\ifx\csname#1\endcsname\relax
5557   \expandafter\expandafter
5558   \expandafter\@firstoftwo
5559 \else
5560   \expandafter\expandafter
5561   \expandafter\@secondoftwo
5562 \fi
5563 \else
5564   \expandafter\@firstoftwo
5565 \fi}
5566 \newcommand\if@bidi@def}[1]{%
5567   \ifdefined#1%

```



```

5568 \expandafter\@firstoftwo
5569 \else
5570 \expandafter\@secondoftwo
5571 \fi}
5572 \newcommand{\if@bidi@undef}[1]{%
5573 \ifdefined#1%
5574 \ifx#1\relax
5575 \expandafter\expandafter
5576 \expandafter\@firstoftwo
5577 \else
5578 \expandafter\expandafter
5579 \expandafter\@secondoftwo
5580 \fi
5581 \else
5582 \expandafter\@firstoftwo
5583 \fi}
5584 \newcommand{\if@bidi@blank}[1]{% from url.sty
5585 \bidi@ifblank@i#1&&\@secondoftwo\@firstoftwo:}
5586 \long\def\bidi@ifblank@i#1#2&#3#4#5:#{#4}
5587 \newcommand{\bidi@notblank}[1]{%
5588 \bidi@ifblank@i#1&&\@firstoftwo\@secondoftwo:}
5589 \newcommand{\if@bidi@defmacro}{}
5590 \long\edef\if@bidi@defmacro#1{%
5591 \noexpand\expandafter\noexpand\bidi@ifdefmacro
5592 \noexpand\meaning#1\detokenize{macro}:&}
5593 \edef\bidi@ifdefmacro{%
5594 \def\noexpand\bidi@ifdefmacro##1\detokenize{macro}:##2&}
5595 \bidi@ifdefmacro{\bidi@notblank{#2}}
5596 \newcommand*{\if@bidi@csmacro}[1]{%
5597 \if@bidi@csdef{#1}
5598 {\expandafter\if@bidi@defmacro\csname#1\endcsname}
5599 {\@secondoftwo}}
5600 \newcommand{\if@bidi@defprimitive}[1]{%
5601 \ifprimitive#1%
5602 \expandafter\@firstoftwo
5603 \else
5604 \expandafter\@secondoftwo
5605 \fi}
5606 \newcommand{\if@bidi@csprimitive}[1]{%
5607 \begingroup\expandafter\expandafter\expandafter\endgroup%
5608 \expandafter\ifprimitive\csname#1\endcsname%
5609 \expandafter\@firstoftwo
5610 \else
5611 \expandafter\@secondoftwo
5612 \fi}
5613 \newcommand*{\bidi@csdefcs}[2]{%
5614 \expandafter\@ifdefinable \csname#1\endcsname{%
5615 \expandafter\def\csname#1\expandafter\endcsname{\csname#2\endcsname}}
5616 \newcommand*{\bidi@csletcs}[2]{%
5617 \expandafter\@ifdefinable \csname#1\endcsname{%
5618 \expandafter\let\csname#1\expandafter\endcsname\csname#2\endcsname}}
5619 \newcommand*{\bidi@cslet}[2]{%
5620 \expandafter\@ifdefinable \csname#1\endcsname{%
5621 \expandafter\let\csname#1\endcsname#2}}

```





```

5622 \newcommand{\bidi@namelongdef}[1]{%
5623   \long\expandafter\def\csname #1\endcsname}
5624 \newcommand{\bidi@namelonggdef}[1]{%
5625   \long\expandafter\gdef\csname #1\endcsname}
5626 \newcommand{\bidi@namelongedef}[1]{%
5627   \long\expandafter\edef\csname #1\endcsname}
5628 \newcommand{\bidi@namelongxdef}[1]{%
5629   \long\expandafter\xdef\csname #1\endcsname}
5630 \def\bidi@ensure@newcommand{\@star@or@long\bidi@ensure@new@command}
5631 \def\bidi@ensure@new@command#1{%
5632   \begingroup \escapechar\m@ne\xdef\@gtempa{\string#1}\endgroup
5633   \expandafter\if\bidi@csundef\@gtempa
5634     {\new@command#1}{\relax%
5635     \let\@ifdefinable\@rc@ifdefinable%
5636     \new@command#1}}
5637 \def\bidi@ensure@newlength#1{\if\bidi@undef#1{\newskip#1}{}}
5638
5639 \protected\def\bidi@error{\PackageError{bidi}}
5640 \protected\def\bidi@warning{\PackageWarning{bidi}}
5641 \protected\def\bidi@warningnoline{\PackageWarningNoLine{bidi}}
5642 \protected\def\bidi@info{\PackageInfo{bidi}}
5643
5644 \def\bidi@pos#1#2#3#4{\bidi@namegdef{bidi@#1pos@#2@#3}{#4}}
5645
5646 \newcount\bidi@poscount
5647
5648 \newcommand*{\WriteStartXPostoaux}{%
5649   \global\advance\bidi@poscount\@ne
5650   \edef\@tempa{%
5651     \write\@auxout{%
5652       \string\bidi@pos{x}{start}{\number\bidi@poscount}{\noexpand\number\noexpand\pdflastx
5653       }%
5654     }%
5655     \ifvmode
5656       \leavevmode
5657     \fi
5658   \if@RTL
5659     \if@filesw
5660       \@tempa
5661     \fi
5662   \pdfsavepos
5663   \else
5664   \pdfsavepos
5665   \if@filesw
5666     \@tempa
5667   \fi
5668   \fi
5669   \if\bidi@csundef{bidi@xpos@start@\number\bidi@poscount}{%
5670     \PackageWarningNoLine{biditools}{%
5671       The start x position ` \number\bidi@poscount' is not known yet.
5672       Rerun to get this x position%
5673     }%
5674   }{}}%
5675 }

```



```

5676
5677 \newcommand*\WriteEndXPostoaux}{%
5678     \edef\@tempa{%
5679         \write\@auxout{%
5680             \string\bidipos{x}{end}{\number\bidiposcount}{\noexpand\number\noexpand\pdflastx
5681         }%
5682     }%
5683 \if@RTL
5684     \if@filesw
5685         \@tempa
5686     \fi
5687 \pdfsavepos
5688 \else
5689 \pdfsavepos
5690 \if@filesw
5691     \@tempa
5692 \fi
5693 \fi
5694 \if@bidi@csundef{bidixpos@end@\number\bidiposcount}{%
5695     \PackageWarningNoLine{biditools}{%
5696         The end x position ` \number\bidiposcount' is not known yet.
5697         Rerun to get this x position%
5698     }%
5699 }{}%
5700 }
5701
5702 \newcommand*\WriteStartYPostoaux}{%
5703 \global\advance\bidiposcount\@ne
5704     \edef\@tempa{%
5705         \write\@auxout{%
5706             \string\bidipos{y}{start}{\number\bidiposcount}{\noexpand\number\noexpand\pdflasty
5707         }%
5708     }%
5709     \ifvmode
5710         \leavevmode
5711     \fi
5712 \if@RTL
5713     \if@filesw
5714         \@tempa
5715     \fi
5716 \pdfsavepos
5717 \else
5718 \pdfsavepos
5719 \if@filesw
5720     \@tempa
5721 \fi
5722 \fi
5723 \if@bidi@csundef{bidipypos@start@\number\bidiposcount}{%
5724     \PackageWarningNoLine{biditools}{%
5725         The start y position ` \number\bidiposcount' is not known yet.
5726         Rerun to get this y position%
5727     }%
5728 }{}%
5729 }

```



```

5730
5731 \newcommand*\WriteEndYPostoaux}{%
5732     \edef\@tempa{%
5733         \write\@auxout{%
5734             \string\bidipos{y}{end}{\number\bidiposcount}{\noexpand\number\noexpand\pdflasty
5735         }%
5736     }%
5737 \if@RTL
5738     \if@filesw
5739         \@tempa
5740 \fi
5741 \pdfsavepos
5742 \else
5743 \pdfsavepos
5744 \if@filesw
5745     \@tempa
5746 \fi
5747 \fi
5748 \if@bidi\csundef{bidipypos@end@\number\bidiposcount}{%
5749     \PackageWarningNoLine{biditools}{%
5750         The end y position ` \number\bidiposcount' is not known yet.
5751         Rerun to get this y position%
5752     }%
5753 }{}%
5754 }
5755
5756 \newcommand*\WriteStartXYPostoaux}{%
5757 \global\advance\bidiposcount\@ne
5758     \edef\@tempa{%
5759         \write\@auxout{%
5760             \string\bidipos{x}{start}{\number\bidiposcount}{\noexpand\number\noexpand\pdflasty
5761         }%
5762         \write\@auxout{%
5763             \string\bidipos{y}{start}{\number\bidiposcount}{\noexpand\number\noexpand\pdflasty
5764         }%
5765     }%
5766     \ifvmode
5767         \leavevmode
5768     \fi
5769 \if@RTL
5770     \if@filesw
5771         \@tempa
5772 \fi
5773 \pdfsavepos
5774 \else
5775 \pdfsavepos
5776 \if@filesw
5777     \@tempa
5778 \fi
5779 \fi
5780 \if@bidi\csundef{bidixpos@start@\number\bidiposcount}{%
5781     \PackageWarningNoLine{biditools}{%
5782         The start x position ` \number\bidiposcount' is not known yet.
5783         Rerun to get this x position%

```



```

5784     }%
5785 }-%
5786 \if@bidi@csundef{bidi@ypos@@start@\number\bidi@poscount}{%
5787     \PackageWarningNoLine{biditools}{%
5788         The start y position `\

```



```

5838 \dimexpr \csname bidi@xpos@@start@\number\bidi@poscount
5839 \endcsname sp - \csname bidi@xpos@@end@\number\bidi@poscount
5840 \endcsname sp\relax
5841 \fi
5842 }%
5843 }
5844
5845 \newcommand*{\currentposyheight}{%
5846 \if@bidi@csundef{bidi@ypos@@end@\number\bidi@poscount}{\z@}
5847 {%
5848 \dimexpr \csname bidi@ypos@@start@\number\bidi@poscount
5849 \endcsname sp - \csname bidi@ypos@@end@\number\bidi@poscount
5850 \endcsname sp\relax
5851 }%
5852 }
5853
5854
5855
5856 \newcommand*{\setbaselineskip}[1]{%
5857 \linespread{\strip@pt\dimexpr\numexpr\dimexpr#1\relax*65536/\dimexpr\baselineskip\relax}
5858 \selectfont
5859 }
5860
5861
5862 \newcommand*{\bidi@newrobustcmd}{%
5863 \protected\def\bidi@newrobustcmd{\@star@or@long\bidi@new@command}
5864
5865 \def\bidi@new@command#1{\@testopt{\bidi@newcommand#1}0}
5866
5867 \def\bidi@newcommand#1[#2]{%
5868 \@ifnextchar[%]
5869 {\bidi@xargdef#1[#2]}
5870 {\ifx\l@ngrel@x\relax
5871 \let\l@ngrel@x\protected
5872 \else
5873 \protected\def\l@ngrel@x{\protected\long}%
5874 \fi
5875 \@argdef#1[#2]}}
5876
5877 \long\def\bidi@xargdef#1[#2][#3]#4{%
5878 \@ifdefinable#1{%
5879 \expandafter\protected
5880 \expandafter\def
5881 \expandafter#1%
5882 \expandafter{%
5883 \expandafter\@testopt
5884 \csname\string#1\endcsname{#3}}%
5885 \expandafter\@yargdef\csname\string#1\endcsname\tw@{#2}{#4}}
5886
5887 \bidi@newrobustcmd*{\bidi@renewrobustcmd}{\@star@or@long\bidi@renew@command}
5888
5889 \def\bidi@renew@command#1{%
5890 \if@bidi@undef{#1}
5891 {\bidi@error{\string#1 undefined}\@ehc}

```



```

5892     {}%
5893 \let\@ifdefinable\@rc@ifdefinable
5894 \bidi@new@command#1}
5895
5896
5897
5898 \bidi@newrobustcmd*\bidi@providerobustcmd}{\@star@or@long\bidi@provide@command}
5899
5900 \def\bidi@provide@command#1{%
5901 \if@bidi@undef{#1}
5902   {\def\reserved@a{\bidi@new@command#1}}
5903   {\def\reserved@a{\bidi@renew@command\reserved@a}}%
5904 \reserved@a}
5905
5906 \newcommand*\bidi@csuse}[1]{%
5907 \ifcsname#1\endcsname
5908   \csname#1\expandafter\endcsname
5909 \fi}
5910
5911 \newcommand{\bidi@expandonce}[1]{%
5912 \unexpanded\expandafter{#1}}
5913
5914 \def\bidi@protected{%
5915 \let\@protect\protect
5916 \let\protect\@unexpandable@protect
5917 \afterassignment\restore@protect}
5918
5919 \bidi@newrobustcmd{\bidi@appto}[2]{%
5920 \if@bidi@undef{#1}
5921   {\edef#1{\unexpanded{#2}}}
5922   {\edef#1{\bidi@expandonce#1\unexpanded{#2}}}}
5923 \bidi@newrobustcmd{\bidi@eappto}[2]{%
5924 \if@bidi@undef{#1}
5925   {\edef#1{#2}}
5926   {\edef#1{\bidi@expandonce#1#2}}}}
5927 \bidi@newrobustcmd{\bidi@gappto}[2]{%
5928 \if@bidi@undef{#1}
5929   {\xdef#1{\unexpanded{#2}}}
5930   {\xdef#1{\bidi@expandonce#1\unexpanded{#2}}}}
5931 \bidi@newrobustcmd{\bidi@xappto}[2]{%
5932 \if@bidi@undef{#1}
5933   {\xdef#1{#2}}
5934   {\xdef#1{\bidi@expandonce#1#2}}}}
5935
5936 \bidi@newrobustcmd*\bidi@protected@eappto}{\bidi@protected\bidi@eappto}
5937 \bidi@newrobustcmd*\bidi@protected@xappto}{\bidi@protected\bidi@xappto}
5938
5939
5940
5941 \bidi@newrobustcmd{\bidi@preto}[2]{%
5942 \if@bidi@undef{#1}
5943   {\edef#1{\unexpanded{#2}}}
5944   {\edef#1{\unexpanded{#2}\bidi@expandonce#1}}}}
5945 \bidi@newrobustcmd{\bidi@epreto}[2]{%

```



```

5946 \if@bidi@undef{#1}
5947   {\edef#1{#2}}
5948   {\edef#1{#2\bidix@expandonce#1}}
5949 \bidix@newrobustcmd{\bidix@gpreto}[2]{%
5950 \if@bidi@undef{#1}
5951   {\xdef#1{\unexpanded{#2}}}
5952   {\xdef#1{\unexpanded{#2}\bidix@expandonce#1}}}
5953 \bidix@newrobustcmd{\bidix@xpreto}[2]{%
5954 \if@bidi@undef{#1}
5955   {\xdef#1{#2}}
5956   {\xdef#1{#2\bidix@expandonce#1}}}
5957
5958 \bidix@newrobustcmd*{\bidix@protected@epreto}{\bidix@protected\bidix@epreto}
5959 \bidix@newrobustcmd*{\bidix@protected@xpreto}{\bidix@protected\bidix@xpreto}
5960
5961
5962
5963 \bidix@newrobustcmd*{\bidix@csappto}[1]{\expandafter\bidix@appto\csname#1\endcsname}
5964 \bidix@newrobustcmd*{\bidix@cseappto}[1]{\expandafter\bidix@eappto\csname#1\endcsname}
5965 \bidix@newrobustcmd*{\bidix@csgappto}[1]{\expandafter\bidix@gappto\csname#1\endcsname}
5966 \bidix@newrobustcmd*{\bidix@csxappto}[1]{\expandafter\bidix@xappto\csname#1\endcsname}
5967 \bidix@newrobustcmd*{\bidix@protected@cseappto}{\bidix@protected\bidix@cseappto}
5968 \bidix@newrobustcmd*{\bidix@protected@csxappto}{\bidix@protected\bidix@csxappto}
5969
5970
5971
5972 \bidix@newrobustcmd*{\bidix@cspreto}[1]{\expandafter\bidix@preto\csname#1\endcsname}
5973 \bidix@newrobustcmd*{\bidix@csepreto}[1]{\expandafter\bidix@epreto\csname#1\endcsname}
5974 \bidix@newrobustcmd*{\bidix@csgpreto}[1]{\expandafter\bidix@gpreto\csname#1\endcsname}
5975 \bidix@newrobustcmd*{\bidix@csxpreto}[1]{\expandafter\bidix@xpreto\csname#1\endcsname}
5976 \bidix@newrobustcmd*{\bidix@protected@csepreto}{\bidix@protected\bidix@csepreto}
5977 \bidix@newrobustcmd*{\bidix@protected@csxpreto}{\bidix@protected\bidix@csxpreto}
5978
5979
5980
5981 \bidix@newrobustcmd{\if@bidi@patchable}{%
5982 \bidix@dbg@trce\if@bidi@patchable
5983 \begingroup
5984 \@makeother\#%
5985 \@ifstar\bidix@ifpatchable@i\bidix@ifpatchable}
5986
5987 \long\def\bidix@ifpatchable#1#2{%
5988 \endgroup
5989 \bidix@dbg@init#1%
5990 \if@bidi@undef{#1}
5991   {\bidix@dbg@fail{def}\@secondoftwo}
5992   {\bidix@dbg@info{def}}%
5993   \if@bidi@defmacro{#1}
5994     {\bidix@dbg@info{mac}}%
5995     \bidix@ifscanable{#1}
5996     {\bidix@ifhashcheck{#2}
5997       {\bidix@dbg@info{tok}}%
5998       \bidix@ifpattern#1{#2}
5999       {\bidix@dbg@info{pat}}%

```



```

6000         \bidi@dbg@info{pos}\@firstoftwo}
6001         {\bidi@dbg@fail{pat}\@secondoftwo}}
6002         {\bidi@dbg@fail{hsh}\@secondoftwo}}
6003         {\bidi@dbg@fail{tok}\@secondoftwo}}
6004         {\bidi@dbg@fail{mac}\@secondoftwo}}}}
6005
6006 \long\def\bidi@ifpatchable@i#1{%
6007 \endgroup
6008 \bidi@dbg@init#1%
6009 \if@bidi@undef{#1}
6010   {\bidi@dbg@fail{def}\@secondoftwo}
6011   {\bidi@dbg@info{def}%
6012   \if@bidi@defmacro{#1}
6013     {\bidi@dbg@info{mac}%
6014     \if@bidi@defparam{#1}
6015       {\bidi@dbg@info{prm}%
6016       \bidi@ifscanable{#1}
6017         {\bidi@dbg@info{tok}%
6018         \bidi@dbg@info{pos}\@firstoftwo}
6019         {\bidi@dbg@fail{tok}\@secondoftwo}}
6020       {\bidi@dbg@info{prl}%
6021       \if@bidi@defprotected{#1}
6022         {\bidi@dbg@info{pro}}
6023         {}%
6024         \bidi@dbg@info{pos}\@firstoftwo}}
6025       {\bidi@dbg@fail{mac}\@secondoftwo}}}}
6026
6027 \bidi@newrobustcmd*{\bidi@patchcmd}{%
6028 \bidi@dbg@trce\bidi@patchcmd
6029 \begingroup
6030 \@makeother\%
6031 \bidi@@patchcmd}
6032
6033 \newcommand{\bidi@@patchcmd}[4][#####1]{%
6034 \bidi@ifpatchable#2{#3}
6035   {\bidi@dbg@succ{ret}%
6036   \begingroup
6037   \edef\bidi@resrvda{%
6038     \def\noexpand\bidi@resrvda#####1\detokenize{macro:}####2->####3&{%
6039     #1\def\string\bidi@resrvda\space####2{\noexpand\bidi@resrvdb#####3}}%
6040     \def\noexpand\bidi@resrvdb#####1\detokenize{#3}####2&{%
6041     #####1\detokenize{#4}####2}%
6042     \edef\noexpand\bidi@resrvda{%
6043     \noexpand\bidi@resrvda\meaning#2&}}%
6044     \bidi@resrvda
6045     \bidi@patchcmd@scantoks\bidi@resrvda
6046     \let#2\bidi@resrvda
6047     \bidi@undef\bidi@resrvda
6048     \@firstoftwo}
6049   {\@secondoftwo}}
6050
6051 \def\bidi@patchcmd@scantoks#1{%
6052 \edef\bidi@resrvda{\endgroup
6053 \unexpanded{\makeatletter\scantokens}{#1}%

```





```

6054 \catcode\number`\@=\the\catcode`\@ \relax}%
6055 \bidi@resrvda}
6056
6057 \protected\def\bidi@ifscanable#1{%
6058 \begingroup
6059 \edef\bidi@resrvda{%
6060 \def\noexpand\bidi@resrvda####1\detokenize{macro}:####2->####3&{%
6061 ####1\def\string\bidi@resrvda####2{####3}}}%
6062 \edef\noexpand\bidi@resrvda{\noexpand\bidi@resrvda\meaning#1&}}%
6063 \bidi@resrvda
6064 \makeatletter
6065 \scantokens\expandafter{\bidi@resrvda}%
6066 \expandafter\endgroup\ifx#1\bidi@resrvda
6067 \expandafter\@firstoftwo
6068 \else
6069 \expandafter\@secondoftwo
6070 \fi}
6071
6072
6073 \protected\long\def\bidi@ifhashcheck#1{%
6074 \begingroup
6075 \edef\bidi@resrvda{\detokenize{#1}}%
6076 \expandafter\endgroup
6077 \expandafter\bidi@ifhashcheck@i\meaning\bidi@resrvda&}
6078
6079 \edef\bidi@ifhashcheck@i#1&{%
6080 \noexpand\expandafter
6081 \noexpand\bidi@ifhashcheck@ii
6082 \noexpand\strip@prefix#1\string#\string#&}
6083
6084 \edef\bidi@ifhashcheck@ii{%
6085 \def\noexpand\bidi@ifhashcheck@ii##1\string#\string###2&}
6086 \bidi@ifhashcheck@ii{\if@bidi@blank{#2}}
6087
6088
6089 \protected\long\def\bidi@ifpattern#1#2{%
6090 \begingroup
6091 \edef\bidi@resrvda{%
6092 \def\noexpand\bidi@resrvda####1\detokenize{#2}####2&{%
6093 \endgroup\noexpand\noexpand\noexpand\noexpand\if@bidi@blank{####2}}}%
6094 \edef\noexpand\bidi@resrvda{\noexpand\bidi@resrvda
6095 \expandafter\strip@prefix\meaning#1\detokenize{#2}&}}%
6096 \noexpand\bidi@resrvda}
6097 \bidi@resrvda\@secondoftwo\@firstoftwo}
6098
6099
6100 \newcommand{\if@bidi@defparam}{ }
6101 \long\edef\if@bidi@defparam#1{%
6102 \noexpand\expandafter\noexpand\bidi@ifdefparam
6103 \noexpand\meaning#1\detokenize{macro}:->&}
6104 \edef\bidi@ifdefparam{%
6105 \def\noexpand\bidi@ifdefparam##1\detokenize{macro}:##2->##3&}
6106 \bidi@ifdefparam{\bidi@notblank{#2}}
6107

```



```

6108
6109 \newcommand{\if@bidi@defprotected}{}
6110 \long\edef\if@bidi@defprotected#1{%
6111   \noexpand\expandafter\noexpand\bidi@ifdefprotected
6112   \noexpand\meaning#1\string\protected&}
6113 \edef\bidi@ifdefprotected{%
6114   \def\noexpand\bidi@ifdefprotected##1\string\protected##2&}
6115 \bidi@ifdefprotected{\bidi@notblank{#2}}
6116
6117
6118 \bidi@newrobustcmd{\bidi@undef}[1]{\let#1\bidi@undefined}
6119 \bidi@newrobustcmd{\bidi@csundef}[1]{%
6120   \expandafter\let\csname #1\endcsname\bidi@undefined
6121 }
6122
6123 \let\bidi@dbg@trce@gobble
6124 \let\bidi@dbg@init@gobble
6125 \let\bidi@dbg@info@gobble
6126 \let\bidi@dbg@succ@gobble
6127 \let\bidi@dbg@fail@gobble
6128
6129
6130
6131 \bidi@newrobustcmd*{\bidi@apptocmd}{%
6132   \bidi@dbg@trce\bidi@apptocmd
6133   \begingroup
6134   \@makeother\#%
6135   \bidi@hooktocmd\bidi@append}
6136
6137
6138
6139 \bidi@newrobustcmd*{\bidi@pretocmd}{%
6140   \bidi@dbg@trce\bidi@pretocmd
6141   \begingroup
6142   \@makeother\#%
6143   \bidi@hooktocmd\bidi@prepend}
6144
6145 \long\def\bidi@hooktocmd#1#2#3{%
6146   \endgroup
6147   \bidi@dbg@init#2%
6148   \if@bidi@undef{#2}
6149     {\bidi@dbg@fail{def}\@secondoftwo}
6150     {\bidi@dbg@info{def}%
6151       \if@bidi@defmacro{#2}
6152         {\bidi@dbg@info{mac}%
6153           \if@bidi@defparam{#2}
6154             {\bidi@dbg@info{prm}%
6155               \bidi@ifscanable{#2}
6156                 {\bidi@ifhashcheck{#3}
6157                   {\bidi@dbg@info{tok}%
6158                     \bidi@dbg@succ{ret}%
6159                     \bidi@hooktocmd@i#1#2{#3}%
6160                     \@firstoftwo}
6161                   {\bidi@dbg@fail{hsh}\@secondoftwo}}

```



```

6162         {\bidi@dbg@fail{tok}\@secondoftwo}}
6163     {\bidi@dbg@info{prl}%
6164     \if@bidi@defprotected{#2}
6165     {\bidi@dbg@info{pro}%
6166     \bidi@dbg@succ{red}%
6167     \protected}
6168     {\bidi@dbg@succ{red}}}%
6169     \edef#2{#1{\bidi@expandonce#2}{\unexpanded{#3}}}%
6170     \@firstoftwo}}
6171     {\bidi@dbg@fail{mac}\@secondoftwo}}
6172
6173 \long\def\bidi@hooktocmd#i#1#2#3{%
6174     \begingroup
6175     \edef\bidi@resrvda{%
6176         \def\noexpand\bidi@resrvda####1\detokenize{macro}:####2->####3{%
6177             ####1\def\string\bidi@resrvda\space####2{#1{####3}{\detokenize{#3}}}}%
6178         \edef\noexpand\bidi@resrvda{%
6179             \noexpand\bidi@resrvda\meaning#2&}}}%
6180     \bidi@resrvda
6181     \bidi@patchcmd@scantoks\bidi@resrvda
6182     \let#2\bidi@resrvda
6183     \bidi@undef\bidi@resrvda}
6184
6185 \long\def\bidi@append#1#2{#1#2}
6186 \long\def\bidi@prepend#1#2{#2#1}
6187
6188 %\bidi@newrobustcmd*{\bidi@AtEndPreamble}{\bidi@gappto\bidi@endpreamblehook}
6189 %\newcommand*{\bidi@endpreamblehook}{}
6190
6191 \bidi@newrobustcmd*{\bidi@AtEndPreamble}{\AddToHook{begindocument/before}}%
6192
6193 \bidi@newrobustcmd*{\bidi@BeforeOutputPageShipOut}{\bidi@gappto\bidi@beforeoutputpageshipout}
6194 \newcommand*{\bidi@beforeoutputpageshipouthook}{}
6195
6196 \bidi@newrobustcmd*{\bidi@BeforeHeader}{\bidi@gappto\bidi@beforeheaderhook}
6197 \newcommand*{\bidi@beforeheaderhook}{}
6198
6199 \bidi@newrobustcmd*{\bidi@BeforeOutputBoxOutputPage}{\bidi@gappto\bidi@beforeoutputboxoutput}
6200 \newcommand*{\bidi@beforeoutputboxoutputpagehook}{}
6201
6202 \bidi@newrobustcmd*{\bidi@AfterOutputBoxOutputPage}{\bidi@gappto\bidi@afteroutputboxoutput}
6203 \newcommand*{\bidi@afteroutputboxoutputpagehook}{}
6204
6205 \bidi@newrobustcmd*{\bidi@BeforeFooter}{\bidi@gappto\bidi@beforefooterhook}
6206 \newcommand*{\bidi@beforefooterhook}{}
6207
6208 \bidi@newrobustcmd*{\bidi@AfterFooter}{\bidi@gappto\bidi@afterfooterhook}
6209 \newcommand*{\bidi@afterfooterhook}{}
6210
6211
6212 \bidi@newrobustcmd*{\bidi@AfterOutputPageShipOut}{\bidi@gappto\bidi@afteroutputpageshipout}
6213 \newcommand*{\bidi@afteroutputpageshipouthook}{}
6214
6215 \bidi@newrobustcmd*{\bidi@AtEndOutputPage}{\bidi@gappto\bidi@atendoutputpagehook}

```



```

6216 \newcommand*{\bidi@atendoutputpagehook}{}
6217
6218 %\bidi@preto\document{%
6219 % \endgroup
6220 % \let\bidi@AtEndPreamble\@firstofone
6221 % \bidi@endpreamblehook
6222 % \protected\def\bidi@AtEndPreamble{\@notprerr\@gobble}%
6223 % \bidi@undef\bidi@endpreamblehook
6224 % \beginingroup}
6225
6226 \bidi@newrobustcmd*{\bidi@AfterPreamble}{\AtBeginDocument}
6227 \bidi@AtEndPreamble{\let\bidi@AfterPreamble\@firstofone}
6228
6229 %\bidi@newrobustcmd*{\bidi@AfterEndPreamble}{\bidi@gappto\bidi@afterendpreamblehook}
6230 %\newcommand*{\bidi@afterendpreamblehook}{}
6231
6232 \bidi@newrobustcmd*{\bidi@AfterEndPreamble}{\AddToHook{begindocument/end}}%
6233
6234 %\bidi@appto\document{%
6235 % \let\bidi@AfterEndPreamble\@firstofone
6236 % \bidi@afterendpreamblehook
6237 % \protected\def\bidi@AfterEndPreamble{\@notprerr\@gobble}%
6238 % \bidi@undef\bidi@afterendpreamblehook
6239 % \ignorespaces}
6240
6241 \bidi@newrobustcmd*{\bidi@AfterEndDocumentCheckLabelsRerun}{\bidi@gappto\bidi@afterenddocumentchecklabelsrerunhook}
6242 \newcommand*{\bidi@afterenddocumentchecklabelsrerunhook}{}
6243
6244 \bidi@patchcmd\enddocument
6245 {\fi}
6246 {\let\bidi@AfterEndDocumentCheckLabelsRerun\@firstofone
6247 \bidi@afterenddocumentchecklabelsrerunhook
6248 \fi}
6249 {}
6250 {\PackageWarning{biditools}{Patching '\string\enddocument' failed}}
6251
6252 \AtEndDocument{\let\bidi@AfterEndPreamble\@gobble}
6253
6254 \bidi@newrobustcmd*{\bidi@AfterLastShipout}{\bidi@gappto\bidi@afterlastshipouthook}
6255 \newcommand*{\bidi@afterlastshipouthook}{}
6256
6257 \bidi@patchcmd\enddocument
6258 {\clearpage}
6259 {\clearpage
6260 \let\bidi@AfterLastShipout\@firstofone
6261 \bidi@afterlastshipouthook}
6262 {}
6263 {\let\bidi@clearpage\clearpage
6264 \def\clearpage{%
6265 \bidi@clearpage
6266 \let\bidi@AfterLastShipout\@firstofone
6267 \bidi@afterlastshipouthook}}
6268
6269 %\bidi@newrobustcmd*{\bidi@AfterEndDocument}{\bidi@gappto\bidi@afterenddocumenthook}

```



```

6270 %\newcommand*{\bidi@afterenddocumenthook}{-}
6271
6272 \bidi@newrobustcmd*{\bidi@AfterEndDocument}{\AddToHook{enddocument/end}}%
6273
6274 %\bidi@patchcmd\enddocument
6275 % {\deadcycles}
6276 % {\let\bidi@AfterEndDocument\@firstofone
6277 % \bidi@afterenddocumenthook
6278 % \deadcycles}
6279 % {}
6280 % {\let\bidi@@end\@end
6281 % \def\@end{%
6282 % \let\bidi@AfterEndDocument\@firstofone
6283 % \bidi@afterenddocumenthook
6284 % \bidi@@end}}
6285
6286 \bidi@newrobustcmd{\bidi@AtBeginEnvironment}[1]{%
6287 \bidi@csgappto{\bidi@begin@#1@hook}}
6288
6289 % Patch \begin<space> and \end<space> in newer LaTeX releases
6290 % \begin and \end in older ones.
6291 \expandafter\bidi@patchcmd\csname begin\ifcsname begin \endcsname\space\fi\endcsname
6292 {\csname #1\endcsname}
6293 {\bidi@csuse{\bidi@begin@#1@hook}}%
6294 \csname #1\endcsname}
6295 {}
6296 {\bidi@warning{%
6297 \string\begin' failed!\MessageBreak
6298 \string\bidi@AtBeginEnvironment' will not work@gobble}}
6299
6300
6301
6302 \bidi@newrobustcmd{\bidi@AtEndEnvironment}[1]{%
6303 \bidi@csgappto{\bidi@end@#1@hook}}
6304
6305 \expandafter\bidi@patchcmd\csname end\ifcsname end \endcsname\space\fi\endcsname
6306 {\csname end#1\endcsname}
6307 {\bidi@csuse{\bidi@end@#1@hook}}%
6308 \csname end#1\endcsname}
6309 {}
6310 {\bidi@warning{%
6311 \string\end' failed!\MessageBreak
6312 \string\bidi@AtEndEnvironment' will not work@gobble}}
6313
6314
6315
6316 \bidi@newrobustcmd{\bidi@BeforeBeginEnvironment}[1]{%
6317 \bidi@csgappto{\bidi@beforebegin@#1@hook}}
6318
6319 \expandafter\bidi@pretocmd\csname begin\ifcsname begin \endcsname\space\fi\endcsname
6320 {\bidi@csuse{\bidi@beforebegin@#1@hook}}
6321 {}
6322 {\bidi@warning{%
6323 \string\begin' failed!\MessageBreak

```



```

6324     '\string\bidi@BeforeBeginEnvironment' will not work@gobble}}
6325
6326 \bidi@newrobustcmd{\bidi@AfterEndEnvironment}[1]{%
6327   \bidi@csgappto{@bidi@afterend@#1@hook}}
6328
6329 \expandafter\bidi@patchcmd\csname end\ifcsname end \endcsname\space\fi\endcsname
6330   {\if@ignore}
6331   {\bidi@csuse{@bidi@afterend@#1@hook}%
6332     \if@ignore}
6333   {}
6334   {\bidi@warning{%
6335     Patching '\string\end' failed!\MessageBreak
6336     '\string\bidi@AfterEndEnvironment' will not work@gobble}}
6337
6338 \def\bidi@namedef#1{\expandafter\def\csname #1\endcsname}
6339 \def\bidi@namegdef#1{\expandafter\gdef\csname #1\endcsname}
6340 \def\bidi@nameedef#1{\expandafter\edef\csname #1\endcsname}
6341 \def\bidi@namexdef#1{\expandafter\xdef\csname #1\endcsname}
6342
6343 % From David Carlisle:
6344 % The \stpelt redefinition below belongs to Heiko Oberdiek
6345 % See also https://github.com/ho-tex/oberdiek/issues/26
6346
6347 \let@bidi@stepcounter\stepcounter
6348 \let@bidi@@stpelt\stpelt
6349
6350 \def@stpelt#1{%
6351   \ifcsname bidi@reset@#1@perpage\endcsname
6352     \begingroup
6353     \let\stepcounter@bidi@stepcounter
6354     \@bidi@@stpelt{#1}%
6355     \endgroup
6356     \expandafter@gobbletwo
6357   \fi
6358   \@bidi@@stpelt{#1}%
6359 }
6360
6361 \bidi@pretocmd\stepcounter
6362   {%
6363     \if@bidi@csundef{bidi@stepcounterhook@#1}{-}{-}%
6364     \csname bidi@stepcounterhook@#1\endcsname
6365   }%
6366 }-%
6367 {\PackageWarning{biditools}{Patching '\string\stepcounter' failed}}
6368
6369 \chardef\bidi@backslash`\\
6370 \def\bidics#1{\texttt{\char\bidi@backslash#1}}
6371
6372 % anonymous control sequences
6373 \newcount\bidi@tempcountb
6374 \newtoks\bidi@temptoksa
6375 \newtoks\bidi@temptoksb
6376
6377 % Catcode (re)storing

```



```

6378 %
6379 \def\bidi@storecatcode#1%
6380   {\escapechar\m@ne
6381    \bidi@csarg\edef\bidi@restorecatcode\string#1}%
6382    {\catcode`\string#1=
6383     \the\catcode\expandafter`\string#1}%
6384    \catcode\expandafter`\string#1=12\relax
6385    \escapechar`\\relax}
6386 \def\bidi@restorecatcode#1%
6387   {\escapechar\m@ne
6388    \csname bidi@restorecatcode\string#1\endcsname
6389    \escapechar`\\relax}
6390
6391 % Construct a control sequence inside \edef
6392 %
6393 \def\bidi@csname#1{\expandafter\noexpand\csname#1\endcsname}
6394
6395 % Construct a control sequence out of #2, and give it to #1
6396 %
6397 \def\bidi@csarg#1#2{\expandafter#1\csname#2\endcsname}
6398
6399 % Pick an escapecharacter
6400 % this presumes that its argument is a character.
6401 %
6402 \def\bidi@pickescape#1{\ifnum`#1=\escapechar\else#1\fi}
6403
6404 % Equality of strings.
6405 % the fast approach: does not work in expansion-only environment.
6406 %
6407 \def\bidi@EqualString#1#2{00\fi\def\bidi@eqs@a{#1}\def\bidi@eqs@b{#2}%
6408   \ifx\bidi@eqs@a\bidi@eqs@b}
6409
6410 % Test by expansion only
6411 %
6412 \def\bidi@EqualStringX#1#2{00\fi
6413   \csname if\@bidi@EqualStringX#1&#2&\endcsname}
6414 \def\@bidi@EqualStringX#1#2$#3#4${\ifx#1#3%
6415   \ifx#1&true\else\bidi@hop@ES\@bidi@EqualStringX#2$#4$\fi
6416   \else false\fi}
6417 \def\bidi@hop@ES#1\fi#2\fi{\fi\fi#1}
6418
6419 % Lexicographic ordering
6420 % note the use of \def
6421 % also note the characters 0,127,255 that are used,
6422 % these are not supposed to appear in the strings
6423 %
6424 {\catcode0=12 \catcode255=12 \catcode127=12
6425 \gdef\bidi@StringBeforeNC#1#2{00\fi
6426   \bidi@CharsBefore#1^^@^^?#2^^ff^^?}
6427 \gdef\bidi@CharsBeforeNC#1#2^^?#3#4^^?{%
6428   \ifcat#1\relax\def\bidi@next{\bidi@CharsBefore#2^^@^^?#3#4^^ff^^?}%
6429   \else\ifcat#3\relax\def\bidi@next{\bidi@CharsBefore#1#2^^@^^?#4^^ff^^?}%
6430   \else\ifnum\lccode`#1<\lccode`#3
6431     \def\bidi@next{\csname iftrue\endcsname}%

```



```

6432         \else\ifnum\lccode`#1>\lccode`#3
6433             \def\bidinext{\csname iffalse\endcsname}%
6434             \else\def\bidinext{\bidi@CharsBefore#2^^?#4^^?}%
6435     \fi \fi \fi \fi
6436     \bidi@next}
6437 \gdef\bidi@StringBefore#1#2{00\fi
6438     \bidi@CharsBefore#1^^@^^?#2^^ff^^?}
6439 \gdef\bidi@CharsBefore#1#2^^?#3#4^^?{%
6440     \ifnum`#1<`#3
6441         \def\bidinext{\csname iftrue\endcsname}%
6442     \else\ifnum`#1>`#3
6443         \def\bidinext{\csname iffalse\endcsname}%
6444         \else\def\bidinext{\bidi@CharsBefore#2^^?#4^^?}%
6445     \fi\fi
6446     \bidi@next}
6447 }
6448
6449 % Null argument test
6450 %
6451 \def\bidi@empty{}
6452 \def\bidi@ifempty#1{00\fi\expandafter\ifx\csname bidi@#1@null\endcsname\bidi@null}
6453 \def\bidi@ifemptyX#1{\expandafter\ifx\csname bidi@#1@null\endcsname\bidi@null}
6454 %\def\bidi@ifempty#1{\def\bidi@cs@a{#1}\ifx\bidi@cs@a\bidi@empty}
6455 \def\bidi@IsEmptyList#1{00\fi\def\bidi@cs@a{#1}\ifx\cs@a\bidi@empty}
6456
6457 % Next character test
6458 %
6459 \def\bidi@NextChar#1#2#3{00\fi
6460     \let\bidi@nxt@ch#1\def\bidi@nxt@a{#2}\def\bidi@nxt@b{#3}%
6461     \futurelet\bidi@nxt@c@\bidi@ifnxtc}
6462 \def\bidi@ifNextChar#1#2#3{%
6463     \let\bidi@nxt@ch#1\def\bidi@nxt@a{#2}\def\bidi@nxt@b{#3}%
6464     \futurelet\bidi@nxt@c@\bidi@ifnxtc}
6465 \def@\bidi@ifnxtc{\ifx\bidi@nxt@ch\bidi@nxt@c \expandafter\bidi@nxt@a
6466     \else \expandafter\bidi@nxt@b \fi}
6467
6468 % Test for defined-ness of string as control sequence.
6469 % works inside \edef
6470 %
6471 \def\bidi@undefinedcs#1{00\fi\bidi@csarg\ifx{#1}\relax}
6472
6473 % Define uniquely defined dummy macros,
6474 % usually to serve as bumper blocks at the end of a list
6475 %
6476 \newcount\bidi@dummies
6477 \def\DefNewDummy#1{
6478     \if\bidi@undefinedcs{#1}\bidi@csarg\edef{#1}{bidi@dum\the\bidi@dummies}
6479         \advance\bidi@dummies@ne
6480     \else
6481         \bidi@error{Attempt at second definition of `#1'}
6482     \fi}
6483
6484 % string case statement
6485 % use: \bidi@switch \iftest{...} in:

```





```

6486%      item1 action1
6487%      ...
6488%      itemn actionn
6489%      default defaultaction [optional]
6490%      \endbidi@switch
6491% inspired by Jonathan Fine: Some Basic Control Macros
6492% Tugboat 12 #4
6493%
6494\let\@bidi@fi\fi \let\endbidi@switch\relax \DefNewDummy{bidi@default}
6495\def\bidi@switch@exit #1 \@bidi@fi #2 \endbidi@switch {\fi #1}
6496\def\bidi@switch #1#2#3{\bidi@csarg\ifx{#2}\bidi@default\bidi@switch@exit #3 \@bidi@fi
6497 #1{#2}\bidi@switch@exit #3 \@bidi@fi
6498 \bidi@switch {#1}
6499 }
6500% this version puts the test object in {}
6501\def\bidi@oswitch #1 in: #2 #3; {\bidi@csarg\ifx{#2}\bidi@default\bidi@switch@exit #3 \@bidi@fi
6502 #1{#2}\bidi@switch@exit #3 \@bidi@fi
6503 \bidi@switch #1 in:
6504 }
6505% this version assumes that the test object is just one character
6506\def\bidi@cswitch #1 in: #2 #3; {\bidi@csarg\ifx{#2}\bidi@default\bidi@switch@exit #3 \@bidi@fi
6507 #1#2\bidi@switch@exit #3 \@bidi@fi
6508 \bidi@cswitch #1 in:
6509 }
6510% this version assumes that the test object can have an optional space
6511\def\bidi@bswitch #1 in: #2 #3; {\bidi@csarg\ifx{#2}\bidi@default\bidi@switch@exit #3 \@bidi@fi
6512 #1#2 \bidi@switch@exit #3 \@bidi@fi
6513 \bidi@bswitch #1 in:
6514 }
6515% this version can cope with significant spaces at the start of #3;
6516% #2 is macro argument
6517\def\bidi@mswitch #1 in: #2:#3; {\bidi@csarg\ifx{#2}\bidi@default\bidi@switch@exit #3 \@bidi@fi
6518 #1{#2}\bidi@switch@exit #3 \@bidi@fi
6519 \bidi@mswitch #1 in:
6520 }
6521% idem; #2 does not have to be enclosed in braces
6522\def\bidi@fswitch #1 in: #2:#3; {\bidi@csarg\ifx{#2}\bidi@default\bidi@switch@exit #3 \@bidi@fi
6523 #1#2 \bidi@switch@exit #3 \@bidi@fi
6524 \bidi@fswitch #1 in:
6525 }
6526
6527% Routines for taking the value of a string:
6528% if the string is defined as control sequence
6529% take the value of that, otherwise take the string itself
6530
6531% String or value of control sequence
6532%
6533\def\bidi@ww#1{\if\bidi@undefinedcs{#1}#1\else \the\csname#1\endcsname\fi}
6534
6535% String or control sequence
6536%
6537\def\@bidi@ww#1{\if\bidi@undefinedcs{#1}#1\else \csname#1\endcsname \fi}
6538
6539% String or \noexpand-ed control sequence;

```



```

6540 % for use in \edef
6541 %
6542 \newif\ifbidi@in@label
6543 \def\@bidi@w@w#1{\if\bidi@undefinedcs{#1}#1\else
6544     \ifbidi@in@label\noexpand\protect\fi \bidi@csname{#1}\fi}
6545 \newtoks\bidi@are@these@correct
6546 \def\bidi@t@w@w#1{%
6547     \if\bidi@undefinedcs{#1}#1%
6548     \ifdefining\bidi@append@to@list\bidi@are@these@correct{#1 }\fi
6549     \else
6550     \ifin@label\noexpand\protect\fi \bidi@csname{#1}\fi}
6551
6552 % List Manipulation .....
6553 % this assumes that #1 is a list of tokens, #2 is the name of a list
6554 %
6555 % Names of lists (and of items to pop into) are given as strings;
6556 % not as control sequences.
6557 %
6558 \newtoks\bidi@toks@lista \newtoks\bidi@toks@listb
6559 % basic append/prepend macro
6560 \long\def\@bidi@append@to@cslist#1#2#3{\begingroup\bidi@toks@lista=#2{#3}%
6561     \global#1=\expandafter\expandafter\expandafter{\expandafter\the\expandafter#1\the\bidi@toks@lista}
6562 \long\def\@bidi@prepend@to@cslist#1#2#3{\begingroup\bidi@toks@lista=#2{#3}%
6563     \global#1=\expandafter\expandafter\expandafter{\expandafter\the\expandafter\bidi@toks@lista}
6564 \def\@bidi@append@to@list{\bidi@csarg\@bidi@append@to@cslist}
6565 \def\@bidi@prepend@to@list{\bidi@csarg\@bidi@prepend@to@cslist}
6566 % variations:
6567 \long\def\bidi@append@to@list#1#2{\@bidi@append@to@list{#1}{#2}}
6568 \long\def\bidi@prepend@to@list#1#2{\@bidi@prepend@to@list{#1}{#2}}
6569 \def\bidi@append@list@to@list#1#2{%
6570     \@bidi@append@to@list{#1}{\expandafter\expandafter\expandafter}{\expandafter\the\csname#2}
6571 \def\bidi@prepend@list@to@list#1#2{%
6572     \@bidi@prepend@to@list{#1}{\expandafter\expandafter\expandafter}{\expandafter\the\csname#2}
6573 \def\bidi@append@cslist@to@cslist#1#2{%
6574     \@bidi@append@to@cslist{#1}\expandafter{\the#2}}
6575 \def\bidi@prepend@cslist@to@cslist#1#2{%
6576     \@bidi@prepend@to@cslist{#1}\expandafter{\the#2}}
6577 \def\bidi@append@toks@cs@to@list#1#2{\@bidi@append@to@list{#1}\expandafter{\the#2}}
6578 \def\bidi@prepend@toks@cs@to@list#1#2{\@bidi@prepend@to@list{#1}\expandafter{\the#2}}
6579
6580 \let\bidi@willbeunhskip\unhskip
6581
6582 % A few list macros for the user
6583 \def\NewTokenList:#1 {\bidi@csarg\newtoks{#1}\global\csname#1\endcsname{}}
6584 \def\EmptyTokenList:#1 {\global\csname#1\endcsname{}}
6585 \long\def\AppendToTokenList:#1=#2 {\@bidi@append@to@list{#1}{#2}}
6586 \long\def\PrependToTokenList:#1=#2 {\@bidi@prepend@to@list{#1}{#2}}
6587 \def\TheTokenList:#1 {\let\bidi@oldwbuskip\bidi@willbeunhskip \let\bidi@willbeunhskip\empty
6588     \if\bidi@undefinedcs{#1}\bidi@error{Token List <#1> undefined}
6589     \else\bidi@csarg\the{#1}\fi
6590     \let\bidi@willbeunhskip\bidi@oldwbuskip}
6591
6592 \def\bidi@del@tok@from@list#1#2{\begingroup
6593     \long\def\bidi@cs@liste##1#2##2\bidi@tok@SM

```



```

6594     {\bidi@toks@lista{##1}\bidi@toks@listb{##2}%
6595     \edef\bidi@cs@listb{\global\bidi@csname{#1}=
6596         {\the\bidi@toks@lista\the\bidi@toks@listb}}%
6597     \bidi@cs@listb}%
6598     \edef\bidi@cs@lista{\noexpand\bidi@cs@liste{}}\expandafter\the\csname#1\endcsname\noexpand
6599     \bidi@cs@lista \endgroup}
6600 \def\bidi@in@front@of@list#1{\bidi@csarg{\let\expandafter\bidi@cs@lista}{#1}%
6601 \bidi@in@front@of@cslist\bidi@cs@lista}
6602 \long\def\bidi@in@front@of@cslist#1#2{\begingroup\bidi@toks@lista={#2}%
6603 \global#1=\expandafter\expandafter\expandafter{\expandafter\the\expandafter\bidi@toks@list
6604 \endgroup}
6605 \long\def\bidi@local@in@front@of@list#1#2{\bidi@toks@lista={#2}%
6606 \csname#1\endcsname\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter
6607     {\expandafter\expandafter\expandafter\the\expandafter\expandafter\expandafter
6608     \expandafter\the\csname#1\endcsname}%
6609 }
6610 \def\bidi@set@list#1{\bidi@csarg{\let\expandafter\bidi@cs@lista}{#1}%
6611 \bidi@set@cslist\bidi@cs@lista}
6612 \long\def\bidi@set@cslist#1#2{\begingroup\bidi@toks@lista={#2}%
6613 \global#1=\expandafter{\the\bidi@toks@lista}\endgroup}
6614
6615 %%% Stack macros
6616 %
6617 % push in terms of prepending of lists
6618 \def\bidi@push@cs@onto@cs#1#2{\@bidi@prepend@to@cslist#1\expandafter{\expandafter\expandafter
6619 \def\bidi@push@onto#1{\bidi@csarg\bidi@push@onto@cs{#1}}
6620 \def\bidi@push@onto@cs#1#2{\@bidi@prepend@to@cslist#1}{\{#2}}
6621 \def\bidi@local@push@onto#1#2{\let\relax
6622 \bidi@local@in@front@of@list{#1}{\{#2}}
6623 % pop via auxiliary macro: #1 is result, #2 is stack
6624 % two cs arguments
6625 \def\bidi@pop@cs@into#1#2{\edef\bidi@cs@e
6626     {\noexpand\@bidi@popinto\noexpand#1\noexpand#2\the#2\noexpand\@bidi@pop}\bidi@cs@e}
6627 % two string arguments
6628 \def\bidi@pop@into#1#2{\edef\bidi@cs@e
6629     {\noexpand\@bidi@popinto\bidi@csname{#1}\bidi@csname{#2}\bidi@csarg\the{#2}\noexpand\@bidi@pop}
6630 \long\def\@bidi@popinto#1#2\@#3#4\@bidi@pop{#1{#3}#2{#4}}
6631 \def\bidi@copy@stacktop#1#2{%
6632     \edef\bidi@cs@e{\noexpand\@bidi@copy@stacktop
6633         {#1}\bidi@csarg\the{#2}\noexpand\@bidi@pop}%
6634     \bidi@cs@e}
6635 \def\@bidi@copy@stacktop#1\@#2#3\@bidi@pop{\csname#1\endcsname#2\relax}
6636 \newcount\bidi@stack@length \newtoks\bidi@empty@stack \bidi@empty@stack{\{}}
6637 \def\bidi@length@of@stack#1{\bidi@csarg\bidi@length@of@csstack{#1}}
6638 \def\bidi@length@of@csstack#1{\def\@#1{\advance\bidi@stack@length\@ne}%
6639 \bidi@stack@length\@m@ne \the#1}
6640 % turn a stack upside down
6641 \def\bidi@invert@csstack#1{\bidi@length@of@csstack{#1}%
6642 \bidi@tempcountb\z@ \bidi@temptoksa\bidi@empty@stack
6643 \loop\ifnum\bidi@tempcountb<\bidi@stack@length
6644     \bidi@pop@cs@into\bidi@temptoksb#1\advance\bidi@stack@length\@m@ne
6645     \bidi@push@cs@onto@cs\bidi@temptoksa\bidi@temptoksb
6646 % \bidi@append@cslist@to@cslist\bidi@temptoksb\bidi@temptoksa% append a to b
6647 % \bidi@temptoksa\bidi@temptoksb

```



```

6648 \repeat% copy b to a
6649 #1\biditemptoksa \biditemptoksa\biditempty@toks}
6650% invert a stack into a list
6651 \def\bidix@stack@to@list#1{\bidilength@of@stack{#1}%
6652 \biditempcountb\z@ \biditemptoksa\biditempty@toks
6653 \loop\ifnum\biditempcountb<\bidistack@length
6654 \bidipop@into{\biditemptoksb}{#1}\advance\bidistack@length\m@ne
6655 \bidiaappend@list@to@list{\biditemptoksb}{\biditemptoksa}\repeat
6656 \csname#1\endcsname\biditemptoksa \biditemptoksa\biditempty@toks}
6657
6658
6659% General loop macro:
6660% \looprepeat
6661% \forvariable{<var>} \fromvalue{<start>} \bystep{<step>} \tovalue{<end>} \downtovalue{<end>}
6662% \untilcondition{<cond>} \whilecondition{<cond>}
6663% \doloopbody { <loop body> }
6664% where all control sequences in between \looprepeat and \doloopbody are optional.
6665%
6666% var: characters to form a control sequence;
6667% after \forvariable{index} you can access the loop counter as \index.
6668% This is a count register; to print it use \number\index.
6669% start,step,end: integers with obvious relations to the loop counter;
6670% start and step have a default value of 1
6671% cond: (sequence of commands ending in) any TeX \if... test.
6672%
6673% Count down instead of up with \downtovalue; the increment given in \bystep
6674% is always positive, and is added or subtracted accordingly.
6675%
6676% Tests: \untilcondition is evaluated at the end of the loop body; \whilecondition
6677% at the beginning of the loop body.
6678%
6679% Exit from middle of loop: \breaklooprepeat
6680% use this at any place in the loop; in case of a conditional use
6681% \ifsomething ... \expandafter \breaklooprepeat \fi
6682%
6683% Note that the line ends do not cause spaces in the output.
6684%
6685% Technical details:
6686% The loop body is not executed in a group: the braces are those
6687% of a token list.
6688% The `forvariable' variable is \let to a \count register.
6689
6690
6691
6692% Auxiliary stuff
6693 \def\bidilooprepeat@csarg#1#2{\expandafter#1\csname#2\endcsname}
6694 \def\bidilooprepeat@csromannumeral#1{\csname #1\romannumeral\bidilooprepeat@depth\endcsname}
6695 \def\bidilooprepeat@csargromannumeral#1#2{\expandafter#1\csname#2\romannumeral\bidilooprepeat@depth\endcsname}
6696
6697 \newcount\bidilooprepeat@depth
6698 \let\endlooprepeat\relax \def\bidicsprotect{}
6699% Trace switches may later be defined by PAC_utils
6700 \let\bidilooprepeat@traceinit\relax \let\bidilooprepeat@traceexit\relax
6701

```



```

6702 % Main repeatloop macro
6703 % - go to next level and allocate unique counter/toks if this is the
6704 % first time we visit this level
6705 % - setup: gather bounds and termination conditions
6706 % - scoop up body in token list; after the assignment define and
6707 % execute body
6708 \def\looprepeat#1\doloopbody{\bidi@looprepeat@traceinit % exit in \breakrepeatloop
6709 \advance\bidi@looprepeat@depth\@ne\relax
6710 \bidi@looprepeat@csargromannumeral\ifx\bidi@looprepeat@count\relax
6711 \bidi@looprepeat@csargromannumeral{\csname newcount\expandafter\endcsname}{\bidi@looprepe
6712 \bidi@looprepeat@csargromannumeral{\csname newtoks\expandafter\endcsname}{\bidi@looprepea
6713 \bidi@looprepeat@csargromannumeral{\csname newtoks\expandafter\endcsname}{\bidi@looprepea
6714 \bidi@looprepeat@csargromannumeral{\csname newtoks\expandafter\endcsname}{\bidi@looprepea
6715 \fi \bidi@looprepeat@zero \def\bidi@looprepeat@sign{}}\def\bidi@looprepeat@comp{>}\bidi@loop
6716 \edef\bidi@looprepeat@tmp
6717 {\def\bidi@looprepeat@csargromannumeral\noexpand{\bidi@looprepeat@looprepeat}{\bidi@loop
6718 \afterassignment\bidi@looprepeat@dxbody\bidi@looprepeat@csromannumeral{\bidi@looprepeat@tok
6719
6720 % Define and execute loop body
6721 % This is done with an \edef to construct the actual sequence
6722 \def\bidi@looprepeat@dxbody{\bidi@looprepeat@csargromannumeral\edef{\bidi@looprepeat@body}{%
6723 \bidi@looprepeat@csargromannumeral\the{\bidi@looprepeat@wtest}}%
6724 \noexpand\the\bidi@looprepeat@csargromannumeral\noexpand{\bidi@looprepeat@toks}}%
6725 \bidi@looprepeat@csargromannumeral\the{\bidi@looprepeat@utest}}%
6726 \global\bidi@looprepeat@csargromannumeral\advance{\bidi@looprepeat@count} by \bidi@loopre
6727 \noexpand\endlooprepeat
6728 \bidi@looprepeat@csargromannumeral\noexpand{\bidi@looprepeat@looprepeat}}%
6729 \bidi@looprepeat@csromannumeral{\bidi@looprepeat@body}\ignorespaces}
6730
6731 % Stop test
6732 %% In order to stop, issue a
6733 % \breaklooprepeat which scoops up the rest of the body and exits
6734 \def\breaklooprepeat#1\endlooprepeat{\bidi@looprepeat@zero\bidi@looprepeat@csargromannumeral
6735 \advance\bidi@looprepeat@depth\m@ne \bidi@looprepeat@traceexit
6736 }
6737
6738
6739 % Setup
6740 % gather bounds and termination conditions
6741 \def\bidi@looprepeat@setup#1{%
6742 \begingroup
6743 \def\forvariable##1{%
6744 \edef\bidi@looprepeat@tmp{%
6745 \global\let\bidi@looprepeat@csarg\noexpand{##1}\bidi@looprepeat@csromannumeral{\bidi@
6746 \bidi@looprepeat@tmp}}%
6747 \def\fromvalue##1{\bidi@looprepeat@csargromannumeral\global{\bidi@looprepeat@count}##1\ig
6748 \def\tovalue##1{%
6749 \edef\bidi@looprepeat@tmp{\global\bidi@looprepeat@csargromannumeral\noexpand{\bidi@loop
6750 {\bidi@looprepeat@csargromannumeral\the{\bidi@looprepeat@wtest}}%
6751 \noexpand\ifnum\bidi@looprepeat@csargromannumeral\noexpand{\bidi@looprepeat@count}\bi
6752 \noexpand\expandafter \noexpand\breaklooprepeat
6753 \noexpand\fi}\ignorespaces}}%
6754 \bidi@looprepeat@tmp}}%
6755 \def\downvalue##1{%

```



```

6756     \gdef\bidi@looprepeat@sign{-}\gdef\bidi@looprepeat@comp{<}\tovalue{##1}\ignorespaces}%
6757 \def\bystep##1{\ifnum##1<0 \bidi@error{LOOPREPEAT: increment has to be a positive value}
6758     \bidi@looprepeat@csargromannumeral\gdef\bidi@looprepeat@inc{-##1}\else
6759     \bidi@looprepeat@csargromannumeral\gdef\bidi@looprepeat@inc{##1}\fi\ignoresp
6760 \def\untilcondition##1{%
6761     \edef\bidi@looprepeat@tmp{\global\bidi@looprepeat@csargromannumeral\noexpand\bidi@loop
6762     {noexpand##1\relax
6763     \noexpand\expandafter \noexpand\breaklooprepeat \noexpand\fi}\ignorespaces}%
6764     \bidi@looprepeat@tmp}%
6765 \def}whilecondition##1{%
6766     \edef\bidi@looprepeat@tmp{\global\bidi@looprepeat@csargromannumeral\noexpand\bidi@loop
6767     {noexpand##1\relax \noexpand\else
6768     \noexpand\expandafter \noexpand\breaklooprepeat \noexpand\fi}\ignorespaces}%
6769     \bidi@looprepeat@tmp}%
6770     \fromvalue{\@ne}\bystep{\@ne}#1%
6771 \endgroup}
6772 \def\bidi@looprepeat@zero
6773     {\bidi@looprepeat@csromannumeral\bidi@looprepeat@toks-}\bidi@looprepeat@csromannumeral{b
6774     \bidi@looprepeat@csargromannumeral\def\bidi@looprepeat@body-}}
6775
6776 %\tracingmacros2
6777 %\newcount\tmpcount % used in some examples below
6778
6779 %\looprepeat \forvariable{i}
6780 %     \bystep{2}
6781 % \doloopbody {%
6782 %     \ifnum i=13 \expandafter\breaklooprepeat \fi
6783 %     \number i} %
6784 %}%
6785
6786 %\looprepeat \forvariable{iii}
6787 %     \tovalue{8}
6788 % \doloopbody {}
6789 %After loop: \number iii%
6790
6791 %\looprepeat \forvariable{i}
6792 %     \fromvalue{10}
6793 %     \bystep{2}
6794 %     \downtovalue{0}
6795 % \doloopbody {\number i} }
6796
6797 %\looprepeat \forvariable{x} \whilecondition{\ifnum x<7}
6798 % \doloopbody {\number x} }
6799
6800 %\looprepeat \tovalue{3} \doloopbody {Hello world! }
6801
6802 %\looprepeat \forvariable{j}
6803 %     \untilcondition{\tmpcount j \divide\tmpcount by 37 \noexpand\ifnum\tmpcount=1}
6804 % \doloopbody {\number j} }
6805
6806 %\looprepeat \forvariable{i} \bystep{2} \tovalue{10} \doloopbody
6807 % {\looprepeat \forvariable{j} \fromvalue{i} \bystep{3} \tovalue{18}
6808 % \doloopbody {(\number i.\number j) }
6809 % }

```



```

6810
6811 % infinite loop
6812 %\looprepeat \doloopbody {}
6813
6814 \ExplSyntaxOn
6815 \NewDocumentCommand \bidi@AfterClass { s m o +m }
6816 {
6817   \IfBooleanTF { #1 }
6818   {
6819     \@ifclassloaded{ #2 }
6820     { #4 }
6821     {
6822       \hook_gput_code:nnn
6823         { file / #2.\@clsextension / after }
6824         { #3 }
6825         { #4 }
6826     }
6827   }
6828   {
6829     \hook_gput_code:nnn { file / #2.\@clsextension / after } { #3 } { #4 }
6830   }
6831 }
6832
6833 \seq_new:N \g__biditytools_input_file_seq
6834
6835 \prg_new_protected_conditional:Npnn \__bidi_if_loading:n #1 { T, F, TF }
6836 {
6837   \str_set:Nx \l_tmpa_str { #1 }
6838   \seq_if_in:NxTF \g__biditytools_input_file_seq { \str_use:N \l_tmpa_str }
6839   { \prg_return_true: }
6840   { \prg_return_false: }
6841 }
6842
6843 \prg_new_protected_conditional:Npnn \bidi_if_class_loaded:n #1 { T, F, TF }
6844 {
6845   \@ifclassloaded { #1 }
6846   {
6847     \__bidi_if_loading:nTF { #1.\@clsextension }
6848     { \prg_return_false: }
6849     { \prg_return_true: }
6850   }
6851   {
6852     \prg_return_false:
6853   }
6854 }
6855
6856 \prg_new_protected_conditional:Npnn \bidi_if_package_loaded:n #1 { T, F, TF }
6857 {
6858   \@ifpackageloaded { #1 }
6859   {
6860     \__bidi_if_loading:nTF { #1.\@pkgextension }
6861     { \prg_return_false: }
6862     { \prg_return_true: }
6863   }

```



```

6864     {
6865     \prg_return_false:
6866     }
6867 }
6868
6869 \NewDocumentCommand \bidi@AfterAtEndOfClass { s m o +m }
6870 {
6871   \IfBooleanTF { #1 }
6872   {
6873     \bidi_if_class_loaded:nTF { #2 }
6874     { #4 }
6875     { \hook_gput_code:nnn { class / #2 / after } { #3 } { #4 } }
6876   }
6877   {
6878     \bidi_if_class_loaded:nF
6879     { #2 }
6880     { \hook_gput_code:nnn { class / #2 / after } { #3 } { #4 } }
6881   }
6882 }
6883
6884 \NewDocumentCommand \bidi@AfterPackage { s m o +m }
6885 {
6886   \IfBooleanTF { #1 }
6887   {
6888     \@ifpackageloaded{ #2 }
6889     { #4 }
6890     {
6891       \hook_gput_code:nnn
6892       { file / #2.\@pkgextension / after }
6893       { #3 }
6894       { #4 }
6895     }
6896   }
6897   {
6898     \hook_gput_code:nnn { file / #2.\@pkgextension / after } { #3 } { #4 }
6899   }
6900 }
6901
6902 \NewDocumentCommand \bidi@AfterAtEndOfPackage { s m o +m }
6903 {
6904   \IfBooleanTF { #1 }
6905   {
6906     \bidi_if_package_loaded:nTF { #2 }
6907     { #4 }
6908     { \hook_gput_code:nnn { package / #2 / after } { #3 } { #4 } }
6909   }
6910   {
6911     \bidi_if_package_loaded:nF
6912     { #2 }
6913     { \hook_gput_code:nnn { package / #2 / after } { #3 } { #4 } }
6914   }
6915 }
6916
6917 \clist_new:N \l__biditools_package_clist

```





```

6918 \msg_new:nnn { biditools } { cannot-prevent-for-already-loaded-package }
6919 {
6920   Can-not~prevent-package-`#1'-from-being-loaded,~
6921   since-it~has~been~loaded~already~before~line~\msg_line_number:
6922 }
6923 \clist_new:N \g__biditools_prevent_clist
6924
6925 \NewDocumentCommand \bidi@PreventPackageFromLoading { s +o m }
6926 {
6927   \clist_set:Nx \l__biditools_package_clist { #3 }
6928   \clist_map_inline:Nn \l__biditools_package_clist
6929   {
6930     \@ifpackageloaded { ##1 }
6931     {
6932       \IfBooleanTF { #1 } { \msg_info:nnn } { \msg_warning:nnn }
6933       { biditools } { cannot-prevent-for-already-loaded-package } { ##1 }
6934     }
6935     {
6936       \clist_if_in:NnF \g__biditools_prevent_clist { ##1 }
6937       { \clist_gput_right:Nn \g__biditools_prevent_clist { ##1 } }
6938       \tl_if_exist:cF { g__biditools_exclude_package_##1_tl }
6939       {
6940         \tl_new:c { g__biditools_exclude_package_##1_tl }
6941       }
6942       \IfValueT { #2 }
6943       {
6944         \tl_gput_right:cn { g__biditools_exclude_package_##1_tl } { #2 }
6945       }
6946       \disable@package@load { ##1 }
6947       { \tl_use:c { g__biditools_exclude_package_##1_tl } }
6948     }
6949   }
6950   \clist_clear:N \l__biditools_package_clist
6951 }
6952
6953 \NewDocumentCommand \bidi@ResetPreventPackageFromLoading {}
6954 {
6955   \clist_map_function:NN \g__biditools_prevent_clist \reenable@package@load
6956   \clist_gclear:N \g__biditools_prevent_clist
6957 }
6958
6959 \NewDocumentCommand \bidi@StorePreventPackageFromLoading { m }
6960 { \edef #1 { \clist_use:Nn \g__biditools_prevent_clist { , } } }
6961
6962 \NewDocumentCommand \bidi@UnPreventPackageFromLoading { s m }
6963 {
6964   \clist_set:Nx \l__biditools_package_clist { #2 }
6965   \clist_map_inline:Nn \l__biditools_package_clist
6966   {
6967     \clist_if_in:NnT \g__biditools_prevent_clist { ##1 }
6968     {
6969       \clist_gremove_all:Nn \g__biditools_prevent_clist { ##1 }
6970       \reenable@package@load { ##1 }
6971       \IfBooleanT { #1 }

```



```

6972         { \cs_undefine:c { g__biditools_exclude_package_##1_tl } }
6973     }
6974 }
6975 }
6976
6977 \NewDocumentCommand \bidi@BeforeClosingMainAux { o m }
6978 {
6979     \hook_gput_code:nnn { enddocument / afterlastpage } { #1 }
6980     {
6981         \debug_suspend:
6982         \RenewDocumentCommand \bidi@BeforeClosingMainAux { m } { ##1 }
6983         \cs_set_eq:NN \__biditools_protected@write:Nnn \protected@write
6984         \cs_set_eq:NN \protected@write \bidi@protected@immediate@write
6985         #2
6986         \cs_set_eq:NN \protected@write \__biditools_protected@write:Nnn
6987         \debug_resume:
6988     }
6989 }
6990
6991 \NewDocumentCommand \bidi@AfterReadingMainAux { o m }
6992 {
6993     \hook_gput_code:nnn { enddocument / afteraux } { #1 }
6994     {
6995         \debug_suspend:
6996         \RenewDocumentCommand \bidi@AfterReadingMainAux { m } { ##1 }
6997         \cs_set_eq:NN \__biditools_protected@write:Nnn \protected@write
6998         \cs_set_eq:NN \protected@write \bidi@protected@immediate@write
6999         #2
7000         \cs_set_eq:NN \protected@write \__biditools_protected@write:Nnn
7001         \debug_resume:
7002     }
7003 }
7004
7005 \clist_new:N \l__biditools_file_patch_clist
7006
7007 \NewDocumentCommand \ApplyPatchToFiles { m O{def} O{bidi} }
7008 {
7009     \clist_set:Nx \l__biditools_file_patch_clist { #1 }
7010     \clist_map_inline:Nn \l__biditools_file_patch_clist
7011     {
7012         \ApplyPatchToFile { ##1 } [ #2 ] [ #3 ]
7013     }
7014     \clist_clear:N \l__biditools_file_patch_clist
7015 }
7016
7017 \clist_new:N \l__biditools_package_patch_clist
7018
7019 \NewDocumentCommand \ApplyPatchToPackages { m O{bidi} }
7020 {
7021     \clist_set:Nx \l__biditools_package_patch_clist { #1 }
7022     \clist_map_inline:Nn \l__biditools_package_patch_clist
7023     {
7024         \ApplyPatchToPackage { ##1 } [ #2 ]
7025     }

```



```

7026   \clist_clear:N \l__biditools_package_patch_clist
7027 }
7028
7029 \clist_new:N \l__biditools_class_patch_clist
7030
7031 \NewDocumentCommand \ApplyPatchToClasses { m O{bidi} }
7032 {
7033   \clist_set:Nx \l__biditools_class_patch_clist { #1 }
7034   \clist_map_inline:Nn \l__biditools_class_patch_clist
7035     {
7036       \ApplyPatchToClass { ##1 } [ #2 ]
7037     }
7038   \clist_clear:N \l__biditools_class_patch_clist
7039 }
7040
7041 \NewDocumentCommand \ApplyPatchToClassesIfPackageLoadedF { m m O{bidi} }
7042 {
7043   \clist_set:Nx \l__biditools_class_patch_clist { #1 }
7044   \clist_map_inline:Nn \l__biditools_class_patch_clist
7045     {
7046       \ApplyPatchToClassIfPackageLoadedF { ##1 } { #2 } [ #3 ]
7047     }
7048   \clist_clear:N \l__biditools_class_patch_clist
7049 }
7050 \ExplSyntaxOff
7051
7052 \newcommand*{\bidi@ReplaceInput}{\declare@file@substitution}
7053 \newcommand*{\bidi@UnReplaceInput}
7054 {\undeclare@file@substitution}
7055 \newcommand*{\bidi@ReplacePackage}[2]{%
7056   \declare@file@substitution{#1.\@pkgextension}{#2.\@pkgextension}%
7057 }
7058 \newcommand*{\bidi@UnReplacePackage}[1]{%
7059   \undeclare@file@substitution{#1.\@pkgextension}%
7060 }
7061 \newcommand*{\bidi@ReplaceClass}[2]{%
7062   \declare@file@substitution{#1.\@clsextension}{#2.\@clsextension}%
7063 }
7064 \newcommand*{\bidi@UnReplaceClass}[1]{%
7065   \undeclare@file@substitution{#1.\@clsextension}%
7066 }
7067 \newcommand*{\bidi@BeforeFile}[1]{%
7068   \AddToHook{file/#1/before}%
7069 }
7070 \newcommand*{\bidi@AfterFile}[1]{%
7071   \AddToHook{file/#1/after}%
7072 }
7073 \newcommand*{\bidi@BeforeClass}[1]{%
7074   \bidi@BeforeFile{#1.\@clsextension}%
7075 }
7076 \newcommand*{\bidi@BeforePackage}[1]{%
7077   \bidi@BeforeFile{#1.\@pkgextension}%
7078 }
7079

```



```

7080 \long\def\ bidi@protected@immediate@write#1#2#3{%
7081 \begingroup
7082 #2%
7083 \let\protect\@unexpandable@protect
7084 \edef\reserved@a{\immediate\write#1{#3}}%
7085 \reserved@a
7086 \endgroup
7087 \if@nobreak\ifvmode\nobreak\fi\fi
7088 }
7089
7090 \def\ bidi@patch@AfterPackage#1{%
7091 \@ifpackageloaded{#1}{%
7092 \@firstofone
7093 }{%
7094 \AddToHook{package/#1/after}%
7095 }%
7096 }
7097
7098 \def\ bidi@patch@AfterFile#1{%
7099 \IfFileLoadedTF{#1}{%
7100 \@firstofone
7101 }{%
7102 \AddToHook{file/#1/after}%
7103 }%
7104 }
7105
7106 \NewDocumentCommand \ApplyPatchToFile { m O{def} O{bidi} }
7107 {
7108 \ bidi@patch@AfterFile{#1.#2}{%
7109 \ifnum\catcode`\@=11
7110 \input{#1-xetex-#3.def}%
7111 \else
7112 \ bidi@storecatcode\@
7113 \makeatletter
7114 \input{#1-xetex-#3.def}%
7115 \ bidi@restorecatcode\@
7116 \fi
7117 }%
7118 }
7119
7120 \NewDocumentCommand \ApplyPatchCodeToFile { m +m O{def} }
7121 {
7122 \ bidi@patch@AfterFile{#1.#3}{#2}%
7123 }
7124
7125 \NewDocumentCommand \ApplyPatchToFilesIfPackageLoadedF { m m O{def} O{bidi} }
7126 {
7127 \AddToHook{begindocument/before}{%
7128 \IfPackageLoadedF{#1}{%
7129 \ApplyPatchToFiles{#2}[#3][#4]%
7130 }%
7131 }
7132 }
7133

```



```

7134 \NewDocumentCommand \ApplyPatchToClassIfPackageLoadedF { m m O{bidi} }
7135 {
7136   \AddToHook{begindocument/before}{%
7137     \IfPackageLoadedF{#2}{%
7138       \ifnum\catcode`\@=11
7139         \@ifclassloaded{#1}{%
7140           \input{#1-xetex-#3.def}%
7141         }{}%
7142       \else
7143         \bidi@storecatcode\@
7144         \makeatletter
7145         \@ifclassloaded{#1}{%
7146           \input{#1-xetex-#3.def}%
7147         }{}%
7148         \bidi@restorecatcode\@
7149       \fi
7150     }%
7151   }
7152 }
7153
7154 \NewDocumentCommand \ApplyPatchToPackageIfPackageLoadedF { m m O{bidi} }
7155 {
7156   \AddToHook{begindocument/before}{%
7157     \IfPackageLoadedF{#2}{%
7158       \IfPackageLoadedT{#1}{%
7159         \ifnum\catcode`\@=11
7160           \input{#1-xetex-#3.def}%
7161         \else
7162           \bidi@storecatcode\@
7163           \makeatletter
7164           \input{#1-xetex-#3.def}%
7165           \bidi@restorecatcode\@
7166         \fi
7167       }%
7168     }%
7169   }
7170 }
7171
7172 \NewDocumentCommand \ApplyPatchIfPackageLoaded { m +m +m }
7173 {
7174   \AddToHook{begindocument/before}{%
7175     \ifnum\catcode`\@=11
7176       \@ifpackageloaded{#1}{#2}{#3}%
7177     \else
7178       \bidi@storecatcode\@
7179       \makeatletter
7180       \@ifpackageloaded{#1}{#2}{#3}%
7181       \bidi@restorecatcode\@
7182     \fi
7183   }
7184 }
7185
7186 \NewDocumentCommand \ApplyPatchIfPackageLoadedT { m +m }
7187 {

```



```

7188   \ApplyPatchIfPackageLoaded{#1}{#2}{}%
7189   }
7190
7191 \NewDocumentCommand \ApplyPatchIfPackageLoadedF { m +m }
7192   {
7193     \ApplyPatchIfPackageLoaded{#1}{#2}%
7194   }
7195
7196 \NewDocumentCommand \ApplyPatchToPackage { m O{bidi} }
7197   {
7198     \bidi@patch@AfterPackage{#1}{\input{#1-xetex-#2.def}}%
7199   }
7200
7201 \NewDocumentCommand \ApplyPatchCodeToPackage { m +m }
7202   {
7203     \bidi@patch@AfterPackage{#1}{#2}%
7204   }
7205
7206 \NewDocumentCommand \ApplyPatchToClass { m O{bidi} }
7207   {
7208     \@ifclassloaded{#1}{\input{#1-xetex-#2.def}}{}%
7209   }

```

## 53 File `bidituftefloat.sty`

```

7210 \NeedsTeXFormat{LaTeX2e}
7211 \ProvidesPackage{bidituftefloat}[2025/01/03 v0.3
7212 bidi implementation of tufte float]
7213 \RequirePackage{xifthen}
7214 \newcommand{\@bidituftefloat@pkgname}{bidituftefloat}
7215 \newcommand{\bidituftefloatError}[2]{\PackageError{\@bidituftefloat@pkgname}{#1}{#2}}
7216 \newcommand{\bidituftefloatDebugInfoNL}[1]{\ifthenelse{\boolean{@bidituftefloat@debug}}{\bid
7217 \newcommand{\bidituftefloatInfoNL}[1]{\PackageInfo{\@bidituftefloat@pkgname}{#1@gobble}}
7218 \newboolean{@bidituftefloat@reversegeometry}
7219 \setboolean{@bidituftefloat@reversegeometry}{false}
7220 \DeclareOption{reversegeometry}{\setboolean{@bidituftefloat@reversegeometry}{true}}
7221 \newboolean{@bidituftefloat@a4paper}
7222 \DeclareOption{a4paper}{\setboolean{@bidituftefloat@a4paper}{true}}
7223 \newboolean{@bidituftefloat@b5paper}
7224 \DeclareOption{b5paper}{\setboolean{@bidituftefloat@b5paper}{true}}
7225 \newboolean{@bidituftefloat@symmetric}
7226 \newboolean{@bidituftefloat@twoside}
7227 \DeclareOption{twoside}{%
7228 \@twoside true \@mparswitch true%
7229 \setboolean{@bidituftefloat@twoside}{true}%
7230 \setboolean{@bidituftefloat@symmetric}{true}%
7231 }
7232 \DeclareOption{oneside}{%
7233 \@twoside false \@mparswitch false%
7234 \setboolean{@bidituftefloat@twoside}{false}%
7235 \setboolean{@bidituftefloat@symmetric}{false}%
7236 }
7237 \IfClassLoadedT{book}{\ExecuteOptions{twoside}}
7238 \newboolean{@bidituftefloat@debug}

```



```

7239 \newcommand*{\@biditytfloat@caption@justification}{\@biditytfloat@justification@autodete
7240 \ProcessOptions
7241 %% Globally sets the length
7242 \newcommand*\gsetlength}[2]{%
7243   \setlength{#1}{#2}%
7244   \global#1=#1\relax%
7245 }
7246
7247 %% Set the font sizes and baselines to match biditytfloat's books
7248 \renewcommand\normalsize{%
7249   \@setfontsize\normalsize\@xpt{14}%
7250   \abovedisplayskip 10\p@ \@plus2\p@ \@minus5\p@
7251   \abovedisplayshortskip \z@ \@plus3\p@
7252   \belowdisplayshortskip 6\p@ \@plus3\p@ \@minus3\p@
7253   \belowdisplayskip \abovedisplayskip
7254   \let\@listi\@listI}
7255 \normalbaselineskip=14pt
7256 \normalsize
7257 \renewcommand\footnotesize{%
7258   \@setfontsize\footnotesize\@viipt{10}%
7259   \abovedisplayskip 6\p@ \@plus2\p@ \@minus4\p@
7260   \abovedisplayshortskip \z@ \@plus\p@
7261   \belowdisplayshortskip 3\p@ \@plus\p@ \@minus2\p@
7262   \def\@listi{\leftmargin\leftmargini
7263     \topsep 3\p@ \@plus\p@ \@minus\p@
7264     \parsep 2\p@ \@plus\p@ \@minus\p@
7265     \itemsep \parsep}%
7266   \belowdisplayskip \abovedisplayskip
7267 }
7268 %% Paragraph indentation and separation for marginal text
7269 \newcommand{\@biditytfloat@margin@par}{%
7270   \setlength{\RaggedRightParindent}{0.5pc}%
7271   \setlength{\JustifyingParindent}{0.5pc}%
7272   \setlength{\parindent}{0.5pc}%
7273   \setlength{\parskip}{Opt}%
7274 }
7275 \RequirePackage{ragged2e}
7276 \ifthenelse{\boolean{@biditytfloat@reversegeometry}}{%
7277 \RequirePackage[letterpaper,right=1in,top=1in,headsep=2\baselineskip,textwidth=26pc,marginpa
7278 \ifthenelse{\boolean{@biditytfloat@afourpaper}}
7279   {\geometry{a4paper,right=24.8mm,top=27.4mm,headsep=2\baselineskip,textwidth=107mm,marginpa
7280   {}}
7281 \ifthenelse{\boolean{@biditytfloat@bfivepaper}}
7282   {\geometry{paperwidth=176mm,paperheight=250mm,right=14.66mm,top=13.88mm,textwidth=102.66mm,
7283   {}}}%
7284 \RequirePackage[letterpaper,left=1in,top=1in,headsep=2\baselineskip,textwidth=26pc,marginpar
7285 \ifthenelse{\boolean{@biditytfloat@afourpaper}}
7286   {\geometry{a4paper,left=24.8mm,top=27.4mm,headsep=2\baselineskip,textwidth=107mm,marginpar
7287   {}}
7288 \ifthenelse{\boolean{@biditytfloat@bfivepaper}}
7289   {\geometry{paperwidth=176mm,paperheight=250mm,left=14.66mm,top=13.88mm,textwidth=102.66mm,
7290   {}}
7291 \ifthenelse{\boolean{@biditytfloat@symmetric}}
7292   {}

```



```

7293 {\geometry{asymmetric}}% forces internal LaTeX `twoside'
7294 \setlength\marginparpush{10pt}
7295 %% Font for margin items
7296 \newcommand{\@biditytfloat@marginfont}{\normalfont\footnotesize}
7297 \newcommand*{\@biditytfloat@caption@font}{\@biditytfloat@marginfont}
7298 \newcommand*{\setcaptionfont}[1]{\renewcommand*{\@biditytfloat@caption@font}{#1}}
7299 \newcommand{\@biditytfloat@justification}{\justifying}%
7300 \setlength\abovedisplayskip{6pt plus 2pt minus 4pt}
7301 \setlength\belowdisplayskip{6pt plus 2pt minus 4pt}
7302 \newboolean{\@biditytfloat@changepage}
7303 \IfFileExists{changepage.sty}{%
7304 \biditytfloatDebugInfoNL{Found changepage.sty}
7305 \RequirePackage[strict]{changepage}
7306 \setboolean{\@biditytfloat@changepage}{true}
7307 }{%
7308 \biditytfloatDebugInfoNL{Found chngpage.sty}
7309 \RequirePackage[strict]{chngpage}
7310 \setboolean{\@biditytfloat@changepage}{false}
7311 }
7312 \newboolean{\@biditytfloat@odd@page}
7313 \setboolean{\@biditytfloat@odd@page}{true}
7314 \newcommand*{\@biditytfloat@checkoddpage}{%
7315 \checkoddpage%
7316 \ifthenelse{\boolean{\@biditytfloat@changepage}}{%
7317 \ifoddpage%
7318 \setboolean{\@biditytfloat@odd@page}{true}%
7319 \else%
7320 \setboolean{\@biditytfloat@odd@page}{false}%
7321 \fi%
7322 }{%
7323 \ifcpoddpage%
7324 \setboolean{\@biditytfloat@odd@page}{true}%
7325 \else%
7326 \setboolean{\@biditytfloat@odd@page}{false}%
7327 \fi%
7328 }%
7329 }
7330 \newlength{\@biditytfloat@overhang}% used by the fullwidth environment and the running head
7331 \newlength{\@biditytfloat@fullwidth}
7332 \newlength{\@biditytfloat@caption@fill}
7333 \newcommand{\biditytfloatRecalculate}{%
7334 \setlength{\@biditytfloat@overhang}{\marginparwidth}
7335 \addtolength{\@biditytfloat@overhang}{\marginparsep}
7336
7337 \setlength{\@biditytfloat@fullwidth}{\textwidth}
7338 \addtolength{\@biditytfloat@fullwidth}{\marginparsep}
7339 \addtolength{\@biditytfloat@fullwidth}{\marginparwidth}
7340
7341 \setlength{\@biditytfloat@caption@fill}{\textwidth}
7342 \addtolength{\@biditytfloat@caption@fill}{\marginparsep}
7343 }
7344 \AtBeginDocument{\biditytfloatRecalculate}
7345 \RequirePackage{optparams}% provides multiple optional arguments for commands
7346 \RequirePackage{placeins}

```





```

7347 \newsavebox{\@biditytfloat@margin@floatbox}
7348 \newenvironment{@biditytfloat@margin@float}[2] [-1.2ex]%
7349   {\FloatBarrier% process all floats before this point so the figure/table numbers stay in o
7350   \begin{lrbox}{\@biditytfloat@margin@floatbox}%
7351   \begin{minipage}{\marginparwidth}%
7352     \@biditytfloat@caption@font%
7353     \def\@captive{#2}%
7354     \hbox{} \vspace*{#1}%
7355     \@biditytfloat@caption@justification%
7356     \@biditytfloat@margin@par%
7357     \noindent%
7358   }
7359   {\end{minipage}%
7360   \end{lrbox}%
7361   \marginpar{\usebox{\@biditytfloat@margin@floatbox}}%
7362 }
7363 \newenvironment{marginfigure}[1] [-1.2ex]%
7364   {\begin{@biditytfloat@margin@float}[#1]{figure}}
7365   {\end{@biditytfloat@margin@float}}
7366 \newenvironment{margintable}[1] [-1.2ex]%
7367   {\begin{@biditytfloat@margin@float}[#1]{table}}
7368   {\end{@biditytfloat@margin@float}}
7369 \newcommand*{\@biditytfloat@justification@autodetect}{\justifying}%
7370
7371 \newcommand{\@biditytfloat@float@debug@info}{}% contains debug info generated as the float
7372 \newcommand{\@biditytfloat@float@debug}[1]{% adds debug info to the queue for output
7373   \ifthenelse{\equal{\@biditytfloat@float@debug@info}{}}%
7374     {\def\@biditytfloat@float@debug@info{#1}}%
7375     {\g@addto@macro\@biditytfloat@float@debug@info{\MessageBreak#1}}%
7376 }
7377 \newcommand{\floatalignment}{x}% holds the current float alignment (t, b, h, p)
7378 \newcommand{\setfloatalignment}[1]{\global\def\floatalignment{#1}\@biditytfloat@float@debu
7379 \newboolean{@biditytfloat@float@recto}
7380 \newcommand{\forcerectofloat}{\GlobalSetBoolean{@biditytfloat@float@recto}{true}\@bidityt
7381 \newcommand{\forceversofloat}{\GlobalSetBoolean{@biditytfloat@float@recto}{false}\@bidityt
7382 \newsavebox{\@biditytfloat@figure@box}
7383 \newsavebox{\@biditytfloat@caption@box}
7384 \let\@biditytfloat@orig@float\@float
7385 \let\@biditytfloat@orig@endfloat\end@float
7386 \newlength{\@biditytfloat@caption@vertical@offset}
7387 \setlength{\@biditytfloat@caption@vertical@offset}{0pt}
7388 \newcommand{\@biditytfloat@stored@shortcaption}{}
7389 \newcommand{\@biditytfloat@stored@caption}{}
7390 \newcommand{\@biditytfloat@stored@label}{}
7391 \long\def\@biditytfloat@caption[#1][#2]#3{%
7392   \ifthenelse{\isempty{#1}}%
7393     {\gdef\@biditytfloat@stored@shortcaption{#3}}%
7394     {\gdef\@biditytfloat@stored@shortcaption{#1}}%
7395   \gsetlength{\@biditytfloat@caption@vertical@offset}{-#2}% we want a positive offset to l
7396   \gdef\@biditytfloat@stored@caption{#3}%
7397 }
7398 \newcommand{\@biditytfloat@label}[1]{%
7399   \gdef\@biditytfloat@stored@label{#1}%
7400 }

```



```

7401 \newcommand{\@biditytfloat@fps}{}
7402 \newboolean{@biditytfloat@float@star}
7403 \newlength{\@biditytfloat@float@contents@width}
7404 \newenvironment{@biditytfloat@float}[3][htbp]%
7405   {% begin @biditytfloat@float
7406     % Should this float be full-width or just text-width?
7407     \ifthenelse{\equal{#3}{star}}%
7408       {\GlobalSetBoolean{@biditytfloat@float@star}{true}}%
7409       {\GlobalSetBoolean{@biditytfloat@float@star}{false}}%
7410     % Check page side (recto/verso) and store detected value -- can be overridden in environm
7411     \@biditytfloat@checkoddpag%
7412     \ifthenelse{\boolean{@biditytfloat@odd@page}}%
7413       {\GlobalSetBoolean{@biditytfloat@float@recto}{true}}\@biditytfloat@float@debug{Dete
7414       {\GlobalSetBoolean{@biditytfloat@float@recto}{false}}\@biditytfloat@float@debug{Det
7415     % If the float placement specifier is 'b' and only 'b', then bottom-align the mini-pages
7416     \renewcommand{\@biditytfloat@fps}{#1}%
7417     \@biditytfloat@float@debug{Allowed positions: [#1]}%
7418     \ifthenelse{\equal{#1}{b}\OR\equal{#1}{B}}%
7419       {\renewcommand{\floatalignment}{b}\@biditytfloat@float@debug{Presumed position: [bot
7420       {\renewcommand{\floatalignment}{t}\@biditytfloat@float@debug{Presumed position: [top
7421     % Capture the contents of the \caption and \label commands to use later
7422     \global\let\@biditytfloat@orig@caption\caption%
7423     \global\let\@biditytfloat@orig@label\label%
7424     \renewcommand{caption}{\optparams{\@biditytfloat@caption}{[[] [Opt]]}}%
7425     \renewcommand{label}[1]{\@biditytfloat@label{##1}}%
7426     % Handle subfigure package compatibility
7427     \ifthenelse{\boolean{@biditytfloat@packages@subfigure}}{%
7428       \bidi@patchcmd{\subfigure}{%
7429         \let\subfig@oldlabel=\label
7430         }{%
7431         \let\subfig@oldlabel=\@biditytfloat@orig@label
7432         }
7433       {}
7434       {}
7435       \let\subtable=\subfigure
7436     }{% subfigure package is not loaded
7437     \@biditytfloat@orig@float{#2}[#1}%
7438     \ifthenelse{\boolean{@biditytfloat@float@star}}%
7439       {\setlength{\@biditytfloat@float@contents@width}{\@biditytfloat@fullwidth}}%
7440       {\setlength{\@biditytfloat@float@contents@width}{\textwidth}}%
7441     \begin{lrbox}{\@biditytfloat@figure@box}%
7442     \begin{minipage}[\floatalignment]{\@biditytfloat@float@contents@width}\hbox{%
7443   }{% end @biditytfloat@float
7444     \par\hbox{\vspace{-\baselineskip}\ifthenelse{\prevdepth>0}{\vspace{-\prevdepth}}}%
7445     \end{minipage}%
7446     \end{lrbox}%
7447     % build the caption box
7448     \begin{lrbox}{\@biditytfloat@caption@box}%
7449     \begin{minipage}[\floatalignment]{\marginparwidth}\hbox{%
7450       \ifthenelse{\NOT\equal{\@biditytfloat@stored@caption}}{\@biditytfloat@orig@cap
7451       \ifthenelse{\NOT\equal{\@biditytfloat@stored@label}}{\@biditytfloat@orig@label
7452       \par\vspace{-\prevdepth}}% TODO: DOUBLE-CHECK FOR SAFETY
7453     \end{minipage}%
7454     \end{lrbox}%

```



```

7455 % now typeset the stored boxes
7456 \begin{fullwidth}%
7457   \begin{minipage}[\floatalignment]{\linewidth}%
7458     \ifthenelse{\boolean{@biditytfloat@float@star}}%
7459       {\@biditytfloat@float@fullwidth[\@biditytfloat@caption@vertical@offset]{\@bidi
7460       {\@biditytfloat@float@textwidth[\@biditytfloat@caption@vertical@offset]{\@bidi
7461     \end{minipage}%
7462   \end{fullwidth}%
7463   \@biditytfloat@orig@endfloat% end original LaTeX float environment
7464   % output debug info
7465   \ifthenelse{\boolean{@biditytfloat@debug}}{%
7466     \typeout{^^J^^J----- biditytfloat package float information -----}%
7467     \ifthenelse{\equal{\@biditytfloat@stored@label}{}}%
7468       {\typeout{Warning: Float unlabeled!}}%
7469       {\typeout{Float label: [\@biditytfloat@stored@label]}}%
7470     \typeout{Page number: [\thepage]}%
7471     \def\MessageBreak{^^J}%
7472     \typeout{\@biditytfloat@float@debug@info}%
7473     \ifthenelse{\boolean{@biditytfloat@symmetric}}%
7474       {\typeout{Symmetric: [true]}}%
7475       {\typeout{Symmetric: [false]}}%
7476     \typeout{-----^^J^^J}%
7477   }{%
7478   % reset commands and temp boxes and captions
7479   \gdef\@biditytfloat@float@debug@info{%
7480   \let\caption\@biditytfloat@orig@caption%
7481   \let\label\@biditytfloat@orig@label%
7482   \begin{lrbox}{\@biditytfloat@figure@box}\hbox{}\end{lrbox}%
7483   \begin{lrbox}{\@biditytfloat@caption@box}\hbox{}\end{lrbox}%
7484   \gdef\@biditytfloat@stored@shortcaption{%
7485   \gdef\@biditytfloat@stored@caption{%
7486   \gdef\@biditytfloat@stored@label{%
7487   \gsetlength{\@biditytfloat@caption@vertical@offset}{0pt}% reset caption offset
7488   }
7489   \newcommand{\@biditytfloat@float@textwidth}[3][0pt]{%
7490     \ifthenelse{\NOT\boolean{@biditytfloat@symmetric}\OR\boolean{@biditytfloat@float@recto
7491       % asymmetric or page is odd, so caption is on the right
7492       \hbox{%
7493         \usebox{#2}%
7494         \hspace{\marginparsep}%
7495         \smash{\raisebox{#1}{\usebox{#3}}}%
7496       }
7497       \@biditytfloat@float@debug{Caption position: [right]}%
7498   }{% symmetric pages and page is even, so caption is on the left
7499     \hbox{%
7500       \smash{\raisebox{#1}{\usebox{#3}}}%
7501       \hspace{\marginparsep}%
7502       \usebox{#2}%
7503     }
7504     \@biditytfloat@float@debug{Caption position: [left]}%
7505   }%
7506 }
7507 \newcommand{\@biditytfloat@float@fullwidth}[3][0pt]{%
7508   \ifthenelse{\equal{\floatalignment}{b}}%

```



```

7509   {% place caption above figure
7510     \ifthenelse{\NOT\boolean{@biditytfloat@symmetric}}\OR\boolean{@biditytfloat@float@
7511       {\hfill\smash{\raisebox{#1}{\usebox{#3}}}\par\usebox{#2}\@biditytfloat@float@debug
7512       {\smash{\raisebox{#1}{\usebox{#3}}}\hfill\par\usebox{#2}\@biditytfloat@float@debug
7513   }{% place caption below figure
7514     \ifthenelse{\NOT\boolean{@biditytfloat@symmetric}}\OR\boolean{@biditytfloat@float@
7515       {\usebox{#2}\par\hfill\smash{\raisebox{#1}{\usebox{#3}}}\@biditytfloat@float@debug
7516       {\usebox{#2}\par\smash{\raisebox{#1}{\usebox{#3}}}\hfill\@biditytfloat@float@debug
7517   }%
7518 }
7519 \renewenvironment{figure}[1][htbp]%
7520   {\ifvmode\else\unskip\fi\begin{@biditytfloat@float}[#1]{figure}{}}
7521   {\end{@biditytfloat@float}}
7522 \renewenvironment{table}[1][htbp]
7523   {\ifvmode\else\unskip\fi\begin{@biditytfloat@float}[#1]{table}{}}
7524   {\end{@biditytfloat@float}}
7525 \renewenvironment{figure*}[1][htbp]%
7526   {\ifvmode\else\unskip\fi\begin{@biditytfloat@float}[#1]{figure}{star}}
7527   {\end{@biditytfloat@float}}
7528 \renewenvironment{table*}[1][htbp]%
7529   {\ifvmode\else\unskip\fi\begin{@biditytfloat@float}[#1]{table}{star}}
7530   {\end{@biditytfloat@float}}
7531 \newenvironment{fullwidth}
7532   {\ifthenelse{\boolean{@biditytfloat@symmetric}}%
7533     {\ifthenelse{\boolean{@biditytfloat@changepage}}{\begin{adjustwidth*}{-}\@biditytfloat@
7534     {\begin{adjustwidth}{-}\@biditytfloat@overhang}}%
7535   }%
7536   {\ifthenelse{\boolean{@biditytfloat@symmetric}}%
7537     {\ifthenelse{\boolean{@biditytfloat@changepage}}{\end{adjustwidth*}}{\end{adjustwidth}}
7538     {\end{adjustwidth}}}%
7539   }
7540 \long\def\@caption#1[#2]#3{%
7541   \par%
7542   \addcontentsline{\csname ext@#1\endcsname}{#1}%
7543     {\protect\numberline{\csname the#1\endcsname}{\ignorespaces #2}}%
7544   \begingroup%
7545     \@parboxrestore%
7546     \if@minipage%
7547       \setminipage%
7548     \fi%
7549     \@biditytfloat@caption@font\@biditytfloat@caption@justification%
7550     \noindent\csname fnum@#1\endcsname: \ignorespaces#3\par%
7551     %\@makecaption{\csname fnum@#1\endcsname}{\ignorespaces #3}\par
7552   \endgroup}
7553 %%
7554 % Turns newlines into spaces. Based on code from the `titlesec' package.
7555 \DeclareRobustCommand{\@biditytfloat@newlinetospace}{%
7556   \@ifstar{\@biditytfloat@newlinetospace@i}{\@biditytfloat@newlinetospace@i}}%
7557 }
7558 \def\@biditytfloat@newlinetospace@i{%
7559   \ifdim\lastskip>\z@\else\space\fi
7560   \ignorespaces%
7561 }
7562 \DeclareRobustCommand{\newlinetospace}[1]{%

```



```

7563 \let\@bidityfteheading@orig@cr\% save the original meaning of \
7564 \def\{\@bidityfteheading@newlinetospace}% turn \ and \* into \space
7565 \let\newline\% turn \newline into \space
7566 #1%
7567 \let\@\@bidityfteheading@orig@cr% revert to original meaning of \
7568 }
7569 \RequirePackage{fancyhdr}
7570 \pagestyle{fancy}
7571 \AtBeginDocument{%
7572 \ifthenelse{\boolean{@bidityftefloat@symmetric}}
7573   {\fancyhfoffset[LE,RO]{\@bidityftefloat@overhang}}
7574   {\fancyhfoffset[RE,RO]{\@bidityftefloat@overhang}}
7575 }
7576 % The running heads/feet don't have rules
7577 \renewcommand{\headrulewidth}{0pt}
7578 \renewcommand{\footrulewidth}{0pt}
7579 % The 'fancy' page style is the default style for all pages.
7580 \fancyhf{} % clear header and footer fields
7581 \ifthenelse{\boolean{@bidityftefloat@symmetric}}
7582   {\fancyhead[LE]{\thepage\quad\textsl{\newlinetospace{\plainauthor}}}%
7583   \fancyhead[RO]{\textsl{\newlinetospace{\plaintitle}}\quad\thepage}}%
7584   {\fancyhead[RE,RO]{\textsl{\newlinetospace{\plaintitle}}\quad\thepage}}%
7585 % The `plain' page style is used on chapter opening pages.
7586 % In Tufte's /Beautiful Evidence/ he never puts page numbers at the
7587 % bottom of pages -- the folios are unexpressed.
7588 \fancypagestyle{plain}{
7589 \fancyhf{} % clear header and footer fields
7590 % Uncomment the following five lines of code if you want the opening page
7591 % of the chapter to express the folio in the lower outside corner.
7592 % \ifthenelse{\boolean{@bidityftefloat@symmetric}}
7593 %   {\fancyfoot[LE,RO]{\thepage}}
7594 %   {\fancyfoot[RE,RO]{\thepage}}
7595 }
7596 % The `empty' page style suppresses all headers and footers.
7597 % It's used on title pages and `intentionally blank' pages.
7598 \fancypagestyle{empty}{
7599 \fancyhf{} % clear header and footer fields
7600 }
7601 \def\morefloats{% provides a total of 52 floats
7602 \ifthenelse{\isundefined{\bx@S}}{%
7603 \bidityftefloatDebugInfoNL{Adding 34 more float slots.}
7604 \newinsert\bx@S
7605 \newinsert\bx@T
7606 \newinsert\bx@U
7607 \newinsert\bx@V
7608 \newinsert\bx@W
7609 \newinsert\bx@X
7610 \newinsert\bx@Y
7611 \newinsert\bx@Z
7612 \newinsert\bx@a
7613 \newinsert\bx@b
7614 \newinsert\bx@c
7615 \newinsert\bx@d
7616 \newinsert\bx@e

```



```

7617 \newinsert\bx@f
7618 \newinsert\bx@g
7619 \newinsert\bx@h
7620 \newinsert\bx@i
7621 \newinsert\bx@j
7622 \newinsert\bx@k
7623 \newinsert\bx@l
7624 \newinsert\bx@m
7625 \newinsert\bx@n
7626 \newinsert\bx@o
7627 \newinsert\bx@p
7628 \newinsert\bx@q
7629 \newinsert\bx@r
7630 \newinsert\bx@s
7631 \newinsert\bx@t
7632 \newinsert\bx@u
7633 \newinsert\bx@v
7634 \newinsert\bx@w
7635 \newinsert\bx@x
7636 \newinsert\bx@y
7637 \newinsert\bx@z
7638 \gdef\@freelist{\@elt\bx@A\@elt\bx@B\@elt\bx@C\@elt\bx@D\@elt\bx@E
7639 \@elt\bx@F\@elt\bx@G\@elt\bx@H\@elt\bx@I\@elt\bx@J
7640 \@elt\bx@K\@elt\bx@L\@elt\bx@M\@elt\bx@N
7641 \@elt\bx@O\@elt\bx@P\@elt\bx@Q\@elt\bx@R
7642 \@elt\bx@S\@elt\bx@T\@elt\bx@U\@elt\bx@V
7643 \@elt\bx@W\@elt\bx@X\@elt\bx@Y\@elt\bx@Z
7644 \@elt\bx@a\@elt\bx@b\@elt\bx@c\@elt\bx@d\@elt\bx@e
7645 \@elt\bx@f\@elt\bx@g\@elt\bx@h\@elt\bx@i\@elt\bx@j
7646 \@elt\bx@k\@elt\bx@l\@elt\bx@m\@elt\bx@n
7647 \@elt\bx@o\@elt\bx@p\@elt\bx@q\@elt\bx@r
7648 \@elt\bx@s\@elt\bx@t\@elt\bx@u\@elt\bx@v
7649 \@elt\bx@w\@elt\bx@x\@elt\bx@y\@elt\bx@z}]%
7650 }{% we've already added another 34 floats, so we'll add 26 more, but that's it!
7651 \ifthenelse{\isundefined{\bx@AA}}{%
7652 \bidituftefloatDebugInfoNL{Adding 26 more float slots.}
7653 \newinsert\bx@AA
7654 \newinsert\bx@BB
7655 \newinsert\bx@CC
7656 \newinsert\bx@DD
7657 \newinsert\bx@EE
7658 \newinsert\bx@FF
7659 \newinsert\bx@GG
7660 \newinsert\bx@HH
7661 \newinsert\bx@II
7662 \newinsert\bx@JJ
7663 \newinsert\bx@KK
7664 \newinsert\bx@LL
7665 \newinsert\bx@MM
7666 \newinsert\bx@NN
7667 \newinsert\bx@OO
7668 \newinsert\bx@PP
7669 \newinsert\bx@QQ
7670 \newinsert\bx@RR

```



```

7671 \newinsert\bx@SS
7672 \newinsert\bx@TT
7673 \newinsert\bx@UU
7674 \newinsert\bx@VV
7675 \newinsert\bx@WW
7676 \newinsert\bx@XX
7677 \newinsert\bx@YY
7678 \newinsert\bx@ZZ
7679 \gdef\@freelist{\@elt\bx@A\@elt\bx@B\@elt\bx@C\@elt\bx@D\@elt\bx@E
7680 \@elt\bx@F\@elt\bx@G\@elt\bx@H\@elt\bx@I\@elt\bx@J
7681 \@elt\bx@K\@elt\bx@L\@elt\bx@M\@elt\bx@N
7682 \@elt\bx@O\@elt\bx@P\@elt\bx@Q\@elt\bx@R
7683 \@elt\bx@S\@elt\bx@T\@elt\bx@U\@elt\bx@V
7684 \@elt\bx@W\@elt\bx@X\@elt\bx@Y\@elt\bx@Z
7685 \@elt\bx@a\@elt\bx@b\@elt\bx@c\@elt\bx@d\@elt\bx@e
7686 \@elt\bx@f\@elt\bx@g\@elt\bx@h\@elt\bx@i\@elt\bx@j
7687 \@elt\bx@k\@elt\bx@l\@elt\bx@m\@elt\bx@n
7688 \@elt\bx@o\@elt\bx@p\@elt\bx@q\@elt\bx@r
7689 \@elt\bx@s\@elt\bx@t\@elt\bx@u\@elt\bx@v
7690 \@elt\bx@w\@elt\bx@x\@elt\bx@y\@elt\bx@z
7691 \@elt\bx@AA\@elt\bx@BB\@elt\bx@CC\@elt\bx@DD\@elt\bx@EE
7692 \@elt\bx@FF\@elt\bx@GG\@elt\bx@HH\@elt\bx@II\@elt\bx@JJ
7693 \@elt\bx@KK\@elt\bx@LL\@elt\bx@MM\@elt\bx@NN
7694 \@elt\bx@OO\@elt\bx@PP\@elt\bx@QQ\@elt\bx@RR
7695 \@elt\bx@SS\@elt\bx@TT\@elt\bx@UU\@elt\bx@VV
7696 \@elt\bx@WW\@elt\bx@XX\@elt\bx@YY\@elt\bx@ZZ}%
7697 }{%
7698 \biditytfloatError{You may only call \string\morefloats\space twice. See the\Message
7699 {There are already 78 float slots allocated. Try using \string\FloatBarrier\space or
7700 }%
7701 }%
7702 }
7703 \newboolean{@biditytfloat@packages@subfigure}
7704 \setboolean{@biditytfloat@packages@subfigure}{false}
7705 \AtBeginDocument{%
7706 \@ifpackageloaded{subfigure}
7707 {\GlobalSetBoolean{@biditytfloat@packages@subfigure}{true}}
7708 {\GlobalSetBoolean{@biditytfloat@packages@subfigure}{false}}%
7709 }
7710 \AtBeginDocument{%
7711 \@ifpackageloaded{float}{%
7712 % Save the redefined float environment (instead of the LaTeX float environment)
7713 \let\@biditytfloat@orig@float\float
7714 \let\@biditytfloat@orig@endfloat\endfloat
7715
7716 % Define Tuftian float styles (with the caption in the margin)
7717 \newcommand{\floatc@biditytfloatplain}[2]{%
7718 \begin{lrbox}{\@biditytfloat@caption@box}%
7719 \begin{minipage}{\floatalignment}{\marginparwidth}\hbox{%}
7720 \@biditytfloat@caption@font{\@fs@font #1:} #2\par%
7721 \end{minipage}%
7722 \end{lrbox}%
7723 \smash{\hspace{\@biditytfloat@caption@fill}}\usebox{\@biditytfloat@caption@box}}%
7724 }

```



```

7725 \newcommand{\fs@bidituftefloatplain}{%
7726 \def\@fs@cfont{\@bidituftefloat@caption@font}%
7727 \let\@fs@capt\floatc@bidituftefloatplain%
7728 \def\@fs@pre{}%
7729 \def\@fs@post{}%
7730 \def\@fs@mid{}%
7731 \let\@fs@iftopcapt\iftrue%
7732 }
7733 \let\fs@bidituftefloatplaintop=\fs@bidituftefloatplain
7734 \let\floatc@bidituftefloatplaintop=\floatc@bidituftefloatplain
7735 \newcommand\floatc@bidituftefloatruled[2]{%
7736 {\@fs@cfont #1} #2\par%
7737 }
7738 \newcommand\fs@bidituftefloatruled{%
7739 \def\@fs@cfont{\@bidituftefloat@caption@font}%
7740 \let\@fs@capt\floatc@bidituftefloatplain%
7741 \def\@fs@pre{\hrule height.8pt depth0pt width\textwidth \kern2pt}%
7742 \def\@fs@post{\kern2pt\hrule width\textwidth\relax}%
7743 \def\@fs@mid{}%
7744 \let\@fs@iftopcapt\iftrue%
7745 }
7746 \newcommand\fs@bidituftefloatboxed{%
7747 \def\@fs@cfont{}%
7748 \let\@fs@capt\floatc@bidituftefloatplain%
7749 \def\@fs@pre{%
7750 \setbox\@currbox\ vbox{\hbadness10000
7751 \moveleft3.4pt\ vbox{\advance\hsize by6.8pt
7752 \hrule \hbox to\hsize{\vrule\kern3pt
7753 \vbox{\kern3pt\box\@currbox\kern3pt}\kern3pt\vrule}\hrule}}
7754 }%
7755 \def\@fs@mid{\kern2pt}%
7756 \def\@fs@post{}%
7757 \let\@fs@iftopcapt\iftrue%
7758 }
7759 }{%
7760 % Nothing to do
7761 }
7762 }
7763 \AtBeginDocument{%
7764 \@ifpackageloaded{algorithm}{%
7765 % Set the float style to the Tuftian version
7766 \ifthenelse{\equal{\ALG@floatstyle}{plain}\OR\equal{\ALG@floatstyle}{ruled}\OR\equal{\AL
7767 \bidituftefloatInfoNL{Switching algorithm float style from \ALG@floatstyle\MessageBrea
7768 \floatstyle{bidituftefloat\ALG@floatstyle}%
7769 \restylefloat{algorithm}%
7770 }{}%
7771 }{%
7772 % Nothing to do
7773 }
7774 }
7775 \PassOptionsToPackage{caption=false}{subfig}

```

## 54 File bidituftesidenote.sty





```

7776 \NeedsTeXFormat{LaTeX2e}
7777 \ProvidesPackage{bidituftesidenote}[2017/08/09 v0.4
7778 bidi implementation of tufte sidenote]
7779 \RequirePackage{xifthen}
7780 \RequirePackage{ragged2e}
7781 \RequirePackage{setspace}
7782 \RequirePackage{biditools}
7783 \def\bidituftesidenotemarginpar{%
7784   \ifhmode
7785     \@bsphack
7786     \@floatpenalty -\@Mii
7787   \else
7788     \@floatpenalty-\@Miii
7789   \fi
7790   \ifinner
7791     \@parmoderr
7792     \@floatpenalty\z@
7793   \else
7794     \@next\@currbox\@freelist{}{}%
7795     \@next\@marbox\@freelist{\global\count\@marbox\m@ne}%
7796     {\@floatpenalty\z@
7797       \@fltovf\def\@currbox{\@tempboxa}\def\@marbox{\@tempboxa}}%
7798   \fi
7799   \@ifnextchar [\@bidituftesidenotexmpar\@bidituftesidenoteympar}
7800 \long\def\@bidituftesidenotexmpar[#1]#2{%
7801   \@bidituftesidenotesavemarbox\@marbox{#1}%
7802   \@bidituftesidenotesavemarbox\@currbox{#2}%
7803   \@xympar}
7804 \long\def\@bidituftesidenoteympar#1{%
7805   \@bidituftesidenotesavemarbox\@marbox{#1}%
7806   \global\setbox\@currbox\copy\@marbox
7807   \@xympar}
7808 \long\def \@bidituftesidenotesavemarbox #1#2{%
7809   \global\setbox #1%
7810     \color@vbox
7811     \vtop{%
7812       \hsize\marginparwidth
7813       \@parboxrestore
7814       \@bidituftesidenotemarginparreset
7815       #2%
7816       \@minipagefalse
7817       \outer@nobreak
7818     }%
7819   \color@endbox
7820 }
7821 \def \@bidituftesidenotemarginparreset {%
7822   \reset@font
7823   \normalsize
7824   \@minipagetrue
7825   \everypar{\@minipagefalse\everypar{} \if@RTL@footnote\beginR\else\beginL\fi}%
7826 }
7827 \def\LTRbidituftesidenotemarginpar{%
7828   \ifhmode
7829     \@bsphack

```



```

7830 \floatpenalty -\@Mii
7831 \else
7832 \floatpenalty-\@Miii
7833 \fi
7834 \ifinner
7835 \@parmoderr
7836 \floatpenalty\z@
7837 \else
7838 \@next\@currbox\@freelist{}{}%
7839 \@next\@marbox\@freelist{\global\count\@marbox\m@ne}%
7840 {\floatpenalty\z@
7841 \fltovf\def\@currbox{\@tempboxa}\def\@marbox{\@tempboxa}}%
7842 \fi
7843 \@ifnextchar [\@LTRbiditytesidenotexmpar\@LTRbiditytesidenoteympar}
7844 \long\def\@LTRbiditytesidenotexmpar[#1]#2{%
7845 \@LTRbiditytesidenotesavemarbox\@marbox{#1}%
7846 \@LTRbiditytesidenotesavemarbox\@currbox{#2}%
7847 \@xympar}
7848 \long\def\@LTRbiditytesidenoteympar#1{%
7849 \@LTRbiditytesidenotesavemarbox\@marbox{#1}%
7850 \global\setbox\@currbox\copy\@marbox
7851 \@xympar}
7852 \long\def \@LTRbiditytesidenotesavemarbox #1#2{%
7853 \global\setbox #1%
7854 \color@vbox
7855 \vtop{%
7856 \hsize\marginparwidth
7857 \@parboxrestore
7858 \@LTRbiditytesidenotemarginparreset
7859 #2%
7860 \@minipagefalse
7861 \outer@nobreak
7862 }%
7863 \color@endbox
7864 }
7865 \def \@LTRbiditytesidenotemarginparreset {%
7866 \reset@font
7867 \normalsize
7868 \@minipagetrue
7869 \everypar{\@minipagefalse\everypar{} \beginL}%
7870 }
7871 \def\RTLbiditytesidenotemarginpar{%
7872 \ifhmode
7873 \@bsphack
7874 \floatpenalty -\@Mii
7875 \else
7876 \floatpenalty-\@Miii
7877 \fi
7878 \ifinner
7879 \@parmoderr
7880 \floatpenalty\z@
7881 \else
7882 \@next\@currbox\@freelist{}{}%
7883 \@next\@marbox\@freelist{\global\count\@marbox\m@ne}%

```



```

7884     {\floatpenalty\z@
7885     \fltovf\def\@currbox{\@tempboxa}\def\@marbox{\@tempboxa}}%
7886 \fi
7887 \ifnextchar [\@RTLbidituftesidenotexmpar\@RTLbidituftesidenoteympar}
7888 \long\def\@RTLbidituftesidenotexmpar[#1]#2{%
7889 \@RTLbidituftesidenotesavemarbox\@marbox{#1}%
7890 \@RTLbidituftesidenotesavemarbox\@currbox{#2}%
7891 \@xympar}
7892 \long\def\@RTLbidituftesidenoteympar#1{%
7893 \@RTLbidituftesidenotesavemarbox\@marbox{#1}%
7894 \global\setbox\@currbox\copy\@marbox
7895 \@xympar}
7896 \long\def \@RTLbidituftesidenotesavemarbox #1#2{%
7897 \global\setbox #1%
7898 \color@vbox
7899 \vtop{%
7900 \hsize\marginparwidth
7901 \@parboxrestore
7902 \@RTLbidituftesidenotemarginparreset
7903 #2%
7904 \@minipagefalse
7905 \outer@nobreak
7906 }%
7907 \color@endbox
7908 }
7909 \def \@RTLbidituftesidenotemarginparreset {%
7910 \reset@font
7911 \normalsize
7912 \@minipagetrue
7913 \everypar{\@minipagefalse\everypar{}}\beginR}%
7914 }
7915 \newcommand*{\@bidituftesidenote@marginfont}{\normalfont\footnotesize}
7916 \newcommand*{\@bidituftesidenote@LTRmarginfont}{\normalfont\footnotesize}
7917 \newcommand*{\@bidituftesidenote@RTLmarginfont}{\normalfont\footnotesize}
7918 \newcommand*{\@bidituftesidenote@sidenote@font}{\@bidituftesidenote@marginfont}
7919 \newcommand*{\@bidituftesidenote@LTRsidenote@font}{\@bidituftesidenote@LTRmarginfont}
7920 \newcommand*{\@bidituftesidenote@RTLSidenote@font}{\@bidituftesidenote@RTLmarginfont}
7921 \newcommand*{\@bidituftesidenote@marginnote@font}{\@bidituftesidenote@marginfont}
7922 \newcommand*{\@bidituftesidenote@LTRmarginnote@font}{\@bidituftesidenote@LTRmarginfont}
7923 \newcommand*{\@bidituftesidenote@RTLmarginnote@font}{\@bidituftesidenote@RTLmarginfont}
7924 \newcommand*{\@bidituftesidenote@citation@font}{\@bidituftesidenote@marginfont}
7925 \newcommand*{\@bidituftesidenote@LTRcitation@font}{\@bidituftesidenote@LTRmarginfont}
7926 \newcommand*{\@bidituftesidenote@RTLCitation@font}{\@bidituftesidenote@RTLmarginfont}
7927 \newcommand*{\setsidenotefont}[1]{\renewcommand*{\@bidituftesidenote@sidenote@font}{#1}}
7928 \newcommand*{\setLTRsidenotefont}[1]{\renewcommand*{\@bidituftesidenote@LTRsidenote@font}{#1}}
7929 \newcommand*{\setRTLSidenotefont}[1]{\renewcommand*{\@bidituftesidenote@RTLSidenote@font}{#1}}
7930 \newcommand*{\setmarginnotefont}[1]{\renewcommand*{\@bidituftesidenote@marginnote@font}{#1}}
7931 \newcommand*{\setLTRmarginnotefont}[1]{\renewcommand*{\@bidituftesidenote@LTRmarginnote@font}{#1}}
7932 \newcommand*{\setRTLmarginnotefont}[1]{\renewcommand*{\@bidituftesidenote@RTLmarginnote@font}{#1}}
7933 \newcommand*{\setcitationfont}[1]{\renewcommand*{\@bidituftesidenote@citation@font}{#1}}
7934 \newcommand*{\setLTRcitationfont}[1]{\renewcommand*{\@bidituftesidenote@LTRcitation@font}{#1}}
7935 \newcommand*{\setRTLCitationfont}[1]{\renewcommand*{\@bidituftesidenote@RTLCitation@font}{#1}}
7936 \newcommand*{\@bidituftesidenote@sidenote@justification}{\@bidituftesidenote@justification@}
7937 \newcommand*{\@bidituftesidenote@marginnote@justification}{\@bidituftesidenote@justification@}

```



```

7938 \newcommand*{\@bidityftesidenote@citation@justification}{\@bidityftesidenote@justification@
7939 \newcommand*{\@bidityftesidenote@justification@autodetect}{\justifying}%
7940 \newcommand{\@bidityftesidenote@margin@par}{%
7941   \setlength{\RaggedRightParindent}{0.5pc}%
7942   \setlength{\JustifyingParindent}{0.5pc}%
7943   \setlength{\parindent}{0.5pc}%
7944   \setlength{\parskip}{0pt}%
7945 }
7946 %%
7947 % Globally sets the length
7948 \@ifundefined{gsetlength}{%
7949 \newcommand*{gsetlength}[2]{%
7950   \setlength{#1}{#2}%
7951   \global#1=#1\relax%
7952 }%
7953 }{}
7954
7955 %%
7956 % A function that removes leading and trailing spaces from the supplied macro.
7957 % Based on code written by Michael Downes (See ``Around the Bend'', #15.)
7958 % Executing \@bidityftesidenote@trim@spaces\xyzzy will result in the contents of \xyzzy
7959 % being trimmed of leading and trailing white space.
7960 \catcode\Q=3
7961 \def\@bidityftesidenote@trim@spaces#1{%
7962   % Use grouping to emulate a multi-token afterassignment queue
7963   \begingroup%
7964   % Put ``\toks 0 {' into the afterassignment queue
7965   \aftergroup\toks\aftergroup0\aftergroup{%
7966   % Apply \trimb to the replacement text of #1, adding a leading
7967   % \noexpand to prevent brace stripping and to serve another purpose
7968   % later.
7969   \expandafter\@bidityftesidenote@trim@b\expandafter\noexpand#1Q Q}%
7970   % Transfer the trimmed text back into #1.
7971   \edef#1{\the\toks0}%
7972 }
7973 % \trimb removes a trailing space if present, then calls \@bidityftesidenote@trim@c to
7974 % clean up any leftover bizarre Qs, and trim a leading space. In
7975 % order for \trimc to work properly we need to put back a Q first.
7976 \def\@bidityftesidenote@trim@b#1 Q{\@bidityftesidenote@trim@c#1Q}
7977 % Execute \vfuzz assignment to remove leading space; the \noexpand
7978 % will now prevent unwanted expansion of a macro or other expandable
7979 % token at the beginning of the trimmed text. The \endgroup will feed
7980 % in the \aftergroup tokens after the \vfuzz assignment is completed.
7981 \def\@bidityftesidenote@trim@c#1Q#2{\afterassignment\endgroup \vfuzz\the\vfuzz#1}
7982 \catcode\Q=11
7983 %%
7984 % Citations should go in the margin as sidenotes
7985
7986 \RequirePackage{natbib}
7987 \RequirePackage{bibentry} % allows bibitems to be typeset outside the bibliography env
7988 % Redefine the \BR@b@bibitem command to fix a bug with bibentry+chicago style
7989 \renewcommand\BR@b@bibitem[2][]{%
7990   \ifthenelse{\isempty{#1}}{%
7991     {\BR@b@bibitem{#2}}%

```



```

7992   {\BR@bibitem[#1]{#2}}%
7993   \BR@c@bibitem{#2}%
7994 }
7995 \bidi@AtEndPreamble{\nobibliography*}           % pre-loads the bibliography keys
7996 %%
7997 % Normal \cite behavior
7998 \newcounter{@bidituftesidenote@num@bibkeys}%
7999 \newcommand{@bidituftesidenote@normal@cite}[2][Opt]{%
8000 % Snag the last bibentry in the list for later comparison
8001 \let@temp@last@bibkey\empty%
8002 \@for@temp@bibkey:=#2\do{\let@temp@last@bibkey@temp@bibkey}%
8003 \sidenote[][#1]{%
8004   % Loop through all the bibentries, separating them with semicolons and spaces
8005   \normalsize\normalfont@bidituftesidenote@citation@font%
8006   \setcounter{@bidituftesidenote@num@bibkeys}{0}%
8007   \@for@temp@bibkeyx:=#2\do{%
8008     \ifthenelse{equal{@temp@last@bibkey}{@temp@bibkeyx}}%
8009     {\ifthenelse{equal{value{@bidituftesidenote@num@bibkeys}}{0}}{and\ }%
8010     \@bidituftesidenote@trim@spaces@temp@bibkeyx% trim spaces around bibkey
8011     \bibentry{@temp@bibkeyx}}%
8012     {\@bidituftesidenote@trim@spaces@temp@bibkeyx% trim spaces around bibkey
8013     \bibentry{@temp@bibkeyx};\ }%
8014     \stepcounter{@bidituftesidenote@num@bibkeys}%
8015   }%
8016 }%
8017 }
8018 \newcommand{@bidituftelTRSidenote@normal@cite}[2][Opt]{%
8019 % Snag the last bibentry in the list for later comparison
8020 \let@temp@last@bibkey\empty%
8021 \@for@temp@bibkey:=#2\do{\let@temp@last@bibkey@temp@bibkey}%
8022 \LTRsidenote[][#1]{%
8023   % Loop through all the bibentries, separating them with semicolons and spaces
8024   \normalsize\normalfont@bidituftesidenote@LTRcitation@font%
8025   \setcounter{@bidituftesidenote@num@bibkeys}{0}%
8026   \@for@temp@bibkeyx:=#2\do{%
8027     \ifthenelse{equal{@temp@last@bibkey}{@temp@bibkeyx}}%
8028     {\ifthenelse{equal{value{@bidituftesidenote@num@bibkeys}}{0}}{and\ }%
8029     \@bidituftesidenote@trim@spaces@temp@bibkeyx% trim spaces around bibkey
8030     \bibentry{@temp@bibkeyx}}%
8031     {\@bidituftesidenote@trim@spaces@temp@bibkeyx% trim spaces around bibkey
8032     \bibentry{@temp@bibkeyx};\ }%
8033     \stepcounter{@bidituftesidenote@num@bibkeys}%
8034   }%
8035 }%
8036 }
8037 \newcommand{@biditufterTLsidenote@normal@cite}[2][Opt]{%
8038 % Snag the last bibentry in the list for later comparison
8039 \let@temp@last@bibkey\empty%
8040 \@for@temp@bibkey:=#2\do{\let@temp@last@bibkey@temp@bibkey}%
8041 \RTLsidenote[][#1]{%
8042   % Loop through all the bibentries, separating them with semicolons and spaces
8043   \normalsize\normalfont@bidituftesidenote@citation@font%
8044   \setcounter{@bidituftesidenote@num@bibkeys}{0}%
8045   \@for@temp@bibkeyx:=#2\do{%

```



```

8046     \ifthenelse{\equal{\@temp@last@bibkey}{\@temp@bibkeyx}}%
8047     {\ifthenelse{\equal{\value{\@bituftesidenote@num@bibkeys}}{0}}{\and\ }%
8048     \@bituftesidenote@trim@spaces\@temp@bibkeyx% trim spaces around bibkey
8049     \bibentry{\@temp@bibkeyx}}%
8050     {\@bituftesidenote@trim@spaces\@temp@bibkeyx% trim spaces around bibkey
8051     \bibentry{\@temp@bibkeyx};\ }%
8052     \stepcounter{\@bituftesidenote@num@bibkeys}%
8053     }%
8054 }%
8055 }
8056 %%
8057 % Macros for holding the list of cite keys until after the \sidenote
8058 \gdef\@bituftesidenote@citations{}% list of cite keys
8059 \newcommand\@bituftesidenote@add@citation[1]{\relax% adds a new bibkey to the list of cite
8060 \ifx\@bituftesidenote@citations\emptyelse
8061 \g@addto@macro\@bituftesidenote@citations{,}% separate by commas
8062 \fi
8063 \g@addto@macro\@bituftesidenote@citations{#1}
8064 }
8065 \newcommand{\@bituftesidenote@print@citations}[1][Opt]{% puts the citations in a margin no
8066 % Snag the last bibentry in the list for later comparison
8067 \let\@temp@last@bibkey\empty%
8068 \@for\@temp@bibkey:=\@bituftesidenote@citations\do{\let\@temp@last@bibkey\@temp@bibkey}%
8069 \marginpar{%
8070 \hbox{\vspace*{#1}%
8071 \@bituftesidenote@citation@font%
8072 \@bituftesidenote@citation@justification%
8073 \@bituftesidenote@margin@par% use parindent and parskip settings for marginal text
8074 \vspace*{-1\baselineskip}}%
8075 % Loop through all the bibentries, separating them with semicolons and spaces
8076 \setcounter{\@bituftesidenote@num@bibkeys}{0}%
8077 \@for\@temp@bibkeyx:=\@bituftesidenote@citations\do{%
8078 \ifthenelse{\equal{\@temp@last@bibkey}{\@temp@bibkeyx}}%
8079 {\ifthenelse{\equal{\value{\@bituftesidenote@num@bibkeys}}{0}}{\and\ }%
8080 \@bituftesidenote@trim@spaces\@temp@bibkeyx% trim spaces around bibkey
8081 \bibentry{\@temp@bibkeyx}}%
8082 {\@bituftesidenote@trim@spaces\@temp@bibkeyx% trim spaces around bibkey
8083 \bibentry{\@temp@bibkeyx};\ }%
8084 \stepcounter{\@bituftesidenote@num@bibkeys}%
8085 }%
8086 }%
8087 }
8088 %%
8089 % \cite behavior when executed within a sidenote
8090 \newcommand{\@bituftesidenote@sidenote@citations}{}% contains list of \cites in sidenote
8091 \newcommand{\@bituftesidenote@infootnote@cite}[1]{%
8092 \@bituftesidenote@add@citation{#1}
8093 }
8094 %%
8095 % Set the default \cite style. This is set and reset by the \sidenote command.
8096 \let\cite\@bituftesidenote@normal@cite
8097 \let\LTRcite\@bituftelTRSidenote@normal@cite
8098 \let\RTLcite\@bitufterteRLsidenote@normal@cite
8099 %%

```



```

8100 % Transform existing \footnotes into \sidenotes
8101 % Sidenote: ``Where God meant footnotes to go.''' ---bidituftesidenote
8102 \RequirePackage{optparams}% for our new sidenote commands -- provides multiple optional argu
8103 \providecommand{\footnotelayout}{\@bidituftesidenote@sidenote@font\@bidituftesidenote@sidenote
8104 \renewcommand{\footnotelayout}{\@bidituftesidenote@sidenote@font\@bidituftesidenote@sidenote
8105 % Override footmisc's definition to set the sidenote marks (numbers) inside the
8106 % sidenote's text block.
8107 \bidi@patch@AfterPackage{bidi}{\long\def\@makefnmark#1{\@textsuperscript{\@bidituftesidenote
8108 % Set the in-text footnote mark in the same typeface as the body text itself.
8109 \bidi@patch@AfterPackage{bidi}{\def\@makefnmark{\hbox{\@textsuperscript{\normalfont\footnote
8110 \providecommand*\multiplefootnotemarker}{3sp}
8111 \providecommand*\multfootsep}{,}
8112 \bidi@patch@AfterPackage{bidi}{\fi}
8113 \renewcommand{\@footnotemark}{\fi}
8114 \leavevmode%
8115 \ifhmode%
8116 \edef\@x@sf{\the\spacefactor}%
8117 \@bidituftesidenote@check@multiple@sidenotes%
8118 \nobreak%
8119 \fi%
8120 \@makefnmark%
8121 \ifhmode\spacefactor\@x@sf\fi%
8122 \relax%
8123 }%
8124 }
8125 \newcommand{\@bidituftesidenote@check@multiple@sidenotes}{\fi}
8126 \ifdim\lastkern=\multiplefootnotemarker\relax%
8127 \edef\@x@sf{\the\spacefactor}%
8128 \unkern%
8129 \textsuperscript{\multfootsep}%
8130 \spacefactor\@x@sf\relax%
8131 \fi
8132 }
8133 \bidi@patch@AfterPackage{bidi}{\fi}
8134 \renewcommand\@footnotetext[2][Opt]{\fi}
8135 \bidituftesidenotemarginpar{\fi}
8136 \hbox{\vspace*{#1}}%
8137 \def\baselinestretch {\setspace@singlespace}%
8138 \reset@font%
8139 \bidi@@footnotetext@font% \reset@font\footnotesize%
8140 \@bidituftesidenote@margin@par% use parindent and parskip settings for marginal text
8141 \vspace*{-1\baselineskip}\noindent%
8142 \protected@edef\@currentlabel{\fi}
8143 \csname p@footnote\endcsname\@thefnmark%
8144 }%
8145 \color@begingroup%
8146 \@makefnmark{\fi}
8147 \ignorespaces#2%
8148 }%
8149 \color@endgroup%
8150 }%
8151 }%
8152 \renewcommand\@LTRfootnotetext[2][Opt]{\fi}
8153 \LTRbidituftesidenotemarginpar{\fi}

```



```

8154 \hbox{} \vspace*{#1}%
8155 \def\baselinestretch {\setspaces@spacespace}%
8156 \reset@font%
8157 \bidi@LTRfootnotetext@font% \reset@font\footnotesize%
8158 \@bidiuftesidenote@margin@par% use parindent and parskip settings for marginal text
8159 \vspace*{-1\baselineskip}\noindent%
8160 \protected@edef\@currentlabel{%
8161   \csname p@footnote\endcsname\@thefnmark%
8162 }%
8163 \color@begingroup%
8164   \@makefntext{%
8165     \ignorespaces#2%
8166   }%
8167 \color@endgroup%
8168 }%
8169 }%
8170 \renewcommand\@RTLfootnotetext [2] [Opt] {%
8171 \RTLbidiuftesidenotemarginpar{%
8172   \hbox{} \vspace*{#1}%
8173   \def\baselinestretch {\setspaces@spacespace}%
8174   \reset@font%
8175   \bidi@RTLfootnotetext@font% \reset@font\footnotesize%
8176   \@bidiuftesidenote@margin@par% use parindent and parskip settings for marginal text
8177   \vspace*{-1\baselineskip}\noindent%
8178   \protected@edef\@currentlabel{%
8179     \csname p@footnote\endcsname\@thefnmark%
8180   }%
8181   \color@begingroup%
8182     \@makefntext{%
8183       \ignorespaces#2%
8184     }%
8185   \color@endgroup%
8186 }%
8187 }%
8188 }
8189 %
8190 % Define \sidenote command. Can handle \cite.
8191 \newlength{\@bidiuftesidenote@sidenote@vertical@offset}
8192 \setlength{\@bidiuftesidenote@sidenote@vertical@offset}{0pt}
8193 % #1 = footnote num, #2 = vertical offset, #3 = footnote text
8194 \long\def\@bidiuftesidenote@sidenote[#1] [#2] #3{%
8195   \let\cite\@bidiuftesidenote@infootnote@cite% use the in-sidenote \cite command
8196   \gdef\@bidiuftesidenote@citations{}% clear out any old citations
8197   \ifthenelse{\NOT\isempty{#2}}{%
8198     \gsetlength{\@bidiuftesidenote@sidenote@vertical@offset}{#2}%
8199   }{%
8200     \gsetlength{\@bidiuftesidenote@sidenote@vertical@offset}{0pt}%
8201   }%
8202   \ifthenelse{\isempty{#1}}{%
8203     % no specific footnote number provided
8204     \stepcounter\@mpfn%
8205     \protected@xdef\@thefnmark{\thempfn}%
8206     \@footnotemark\@footnotetext[\@bidiuftesidenote@sidenote@vertical@offset]{#3}%
8207   }{%

```





```

8208 % specific footnote number provided
8209 \begingroup%
8210 \csname c@\mpfn\endcsname #1\relax%
8211 \unrestored@protected@xdef\@thefnmark{\thempfn}%
8212 \endgroup%
8213 \@footnotemark\@footnotetext[\@bidityftesidenote@sidenote@vertical@offset]{#3}%
8214 }%
8215 \@bidityftesidenote@print@citations% print any citations
8216 \let\cite\@bidityftesidenote@normal@cite% go back to using normal in-text \cite comm
8217 \let\LTRcite\@bidityfteLTRsidenote@normal@cite% go back to using normal in-text \LTR
8218 \let\RTLcite\@bidityfteRTLsidenote@normal@cite% go back to using normal in-text \RTL
8219 \unskip\ignorespaces% remove extra white space
8220 \kern-\multiplefootnotemarker% remove \kern left behind by sidenote
8221 \kern\multiplefootnotemarker\relax% add new \kern here to replace the one we yanked
8222 }
8223 \long\def\@LTRbidityftesidenote@sidenote[#1][#2]#3{%
8224 \let\cite\@bidityftesidenote@infootnote@cite% use the in-sidenote \cite command
8225 \gdef\@bidityftesidenote@citations{}% clear out any old citations
8226 \ifthenelse{\NOT\isempty{#2}}{%
8227 \gsetlength{\@bidityftesidenote@sidenote@vertical@offset}{#2}%
8228 }{%
8229 \gsetlength{\@bidityftesidenote@sidenote@vertical@offset}{0pt}%
8230 }%
8231 \ifthenelse{\isempty{#1}}{%
8232 % no specific footnote number provided
8233 \stepcounter\mpfn%
8234 \protected@xdef\@thefnmark{\thempfn}%
8235 \@footnotemark\@LTRfootnotetext[\@bidityftesidenote@sidenote@vertical@offset]{#3}%
8236 }{%
8237 % specific footnote number provided
8238 \begingroup%
8239 \csname c@\mpfn\endcsname #1\relax%
8240 \unrestored@protected@xdef\@thefnmark{\thempfn}%
8241 \endgroup%
8242 \@footnotemark\@LTRfootnotetext[\@bidityftesidenote@sidenote@vertical@offset]{#3}%
8243 }%
8244 \@bidityftesidenote@print@citations% print any citations
8245 \let\cite\@bidityftesidenote@normal@cite% go back to using normal in-text \cite comm
8246 \let\LTRcite\@bidityfteLTRsidenote@normal@cite% go back to using normal in-text \LTR
8247 \let\RTLcite\@bidityfteRTLsidenote@normal@cite% go back to using normal in-text \RTL
8248 \unskip\ignorespaces% remove extra white space
8249 \kern-\multiplefootnotemarker% remove \kern left behind by sidenote
8250 \kern\multiplefootnotemarker\relax% add new \kern here to replace the one we yanked
8251 }
8252 \long\def\@RTLbidityftesidenote@sidenote[#1][#2]#3{%
8253 \let\cite\@bidityftesidenote@infootnote@cite% use the in-sidenote \cite command
8254 \gdef\@bidityftesidenote@citations{}% clear out any old citations
8255 \ifthenelse{\NOT\isempty{#2}}{%
8256 \gsetlength{\@bidityftesidenote@sidenote@vertical@offset}{#2}%
8257 }{%
8258 \gsetlength{\@bidityftesidenote@sidenote@vertical@offset}{0pt}%
8259 }%
8260 \ifthenelse{\isempty{#1}}{%
8261 % no specific footnote number provided

```



```

8262 \stepcounter\@mpfn%
8263 \protected@xdef\@thefnmark{\thempfn}%
8264 \@footnotemark\@RTLfootnotetext[\@bidityftesidenote@sidenote@vertical@offset]{#3}%
8265 }-%
8266 % specific footnote number provided
8267 \begingroup%
8268 \csname c@\@mpfn\endcsname #1\relax%
8269 \unrestored@protected@xdef\@thefnmark{\thempfn}%
8270 \endgroup%
8271 \@footnotemark\@RTLfootnotetext[\@bidityftesidenote@sidenote@vertical@offset]{#3}%
8272 }%
8273 \@bidityftesidenote@print@citations% print any citations
8274 \let\cite\@bidityftesidenote@normal@cite% go back to using normal in-text \cite comm
8275 \let\LTRcite\@bidityfteLTRsidenote@normal@cite% go back to using normal in-text \LTR
8276 \let\RTLcite\@bidityfteRTLsidenote@normal@cite% go back to using normal in-text \RTL
8277 \unskip\ignorespaces% remove extra white space
8278 \kern-\multiplefootnotemarker% remove \kern left behind by sidenote
8279 \kern\multiplefootnotemarker\relax% add new \kern here to replace the one we yanked
8280 }
8281 \newcommand{\sidenote}{\optparams{\@bidityftesidenote@sidenote}{[] [Opt]}}
8282 \newcommand{\LTRsidenote}{\optparams{\@LTRbidityftesidenote@sidenote}{[] [Opt]}}
8283 \newcommand{\RTLsidenote}{\optparams{\@RTLbidityftesidenote@sidenote}{[] [Opt]}}
8284 \bidi@patch@AfterPackage{bidi}{%
8285 \renewcommand{\footnote}{\optparams{\@bidityftesidenote@sidenote}{[] [Opt]}}%
8286 \renewcommand{\LTRfootnote}{\optparams{\@LTRbidityftesidenote@sidenote}{[] [Opt]}}%
8287 \renewcommand{\RTLfootnote}{\optparams{\@RTLbidityftesidenote@sidenote}{[] [Opt]}}%
8288 }
8289 %%
8290 % Sidenote without the footnote mark
8291 \newcommand\marginnote[2] [Opt]{%
8292 \let\cite\@bidityftesidenote@infootnote@cite% use the in-sidenote \cite command
8293 \gdef\@bidityftesidenote@citations{}% clear out any old citations
8294 \bidityftesidenotemarginpar{\hbox{}}\vspace*{#1}\@bidityftesidenote@marginnote@font\@bidity
8295 \@bidityftesidenote@print@citations% print any citations
8296 \let\cite\@bidityftesidenote@normal@cite% go back to using normal in-text \cite comm
8297 \let\LTRcite\@bidityfteLTRsidenote@normal@cite% go back to using normal in-text \LTR
8298 \let\RTLcite\@bidityfteRTLsidenote@normal@cite% go back to using normal in-text \RTL
8299 }
8300 \newcommand\LTRmarginnote [2] [Opt]{%
8301 \let\cite\@bidityftesidenote@infootnote@cite% use the in-sidenote \cite command
8302 \gdef\@bidityftesidenote@citations{}% clear out any old citations
8303 \LTRbidityftesidenotemarginpar{\hbox{}}\vspace*{#1}\@bidityftesidenote@LTRmarginnote@font\@
8304 \@bidityftesidenote@print@citations% print any citations
8305 \let\cite\@bidityftesidenote@normal@cite% go back to using normal in-text \cite comm
8306 \let\LTRcite\@bidityfteLTRsidenote@normal@cite% go back to using normal in-text \LTR
8307 \let\RTLcite\@bidityfteRTLsidenote@normal@cite% go back to using normal in-text \RTL
8308 }
8309 \newcommand\RTLmarginnote [2] [Opt]{%
8310 \let\cite\@bidityftesidenote@infootnote@cite% use the in-sidenote \cite command
8311 \gdef\@bidityftesidenote@citations{}% clear out any old citations
8312 \RTLbidityftesidenotemarginpar{\hbox{}}\vspace*{#1}\@bidityftesidenote@RTLmarginnote@font\@
8313 \@bidityftesidenote@print@citations% print any citations
8314 \let\cite\@bidityftesidenote@normal@cite% go back to using normal in-text \cite comm
8315 \let\LTRcite\@bidityfteLTRsidenote@normal@cite% go back to using normal in-text \LTR

```



```

8316 \let\RTLcite\@bidityfteRTLsidenote@normal@cite% go back to using normal in-text \RTL
8317 }

```

## 55 File `bidituftetoc.sty`

```

8318 \NeedsTeXFormat{LaTeX2e}
8319 \ProvidesPackage{bidituftetoc}[2011/06/17 v0.1
8320 bidi implementation of tufte toc]
8321 \RequirePackage{titlesec,titletoc,xifthen,biditools}
8322 \newcommand{\@bidityftetoc@pkgname}{bidituftetoc}
8323 \newcommand{\@bidityftetocError}[2]{\PackageError{\@bidityftetoc@pkgname}{#1}{#2}}
8324 %%
8325 % Turn off section numbering
8326 \setcounter{secnumdepth}{-1}
8327 \newboolean{@bidityftetoc@toc}
8328 \setboolean{@bidityftetoc@toc}{true}
8329 \DeclareOption{notoc}{\setboolean{@bidityftetoc@toc}{false}}
8330 \DeclareOption{toc}{\setboolean{@bidityftetoc@toc}{true}}
8331 \ProcessOptions
8332 %%
8333 % Make Tuftian-style section headings and TOC formatting
8334 \bidi@patch@AfterPackage{bidi}{%
8335 \titleformat{\chapter}%
8336 [display]% shape
8337 {\relax\ifthenelse{\NOT\boolean{@bidityftefloat@symmetric}}{\begin{fullwidth}}{}}% format
8338 {\itshape\huge\thechapter}% label
8339 {0pt}% horizontal separation between label and title body
8340 {\huge\rmfamily\itshape}% before the title body
8341 [\ifthenelse{\NOT\boolean{@bidityftefloat@symmetric}}{\end{fullwidth}}{}}% after the title
8342 \titleformat{\section}%
8343 [hang]% shape
8344 {\normalfont\Large\itshape}% format applied to label+text
8345 {\thesection}% label
8346 {1em}% horizontal separation between label and title body
8347 {}% before the title body
8348 []% after the title body
8349 \titleformat{\subsection}%
8350 [hang]% shape
8351 {\normalfont\large\itshape}% format applied to label+text
8352 {\thesubsection}% label
8353 {1em}% horizontal separation between label and title body
8354 {}% before the title body
8355 []% after the title body
8356 \titleformat{\paragraph}%
8357 [runin]% shape
8358 {\normalfont\itshape}% format applied to label+text
8359 {\theparagraph}% label
8360 {1em}% horizontal separation between label and title body
8361 {}% before the title body
8362 []% after the title body
8363 \titlespacing*{\chapter}{0pt}{50pt}{40pt}
8364 \titlespacing*{\section}{0pt}{3.5ex plus 1ex minus .2ex}{2.3ex plus .2ex}
8365 \titlespacing*{\subsection}{0pt}{3.25ex plus 1ex minus .2ex}{1.5ex plus .2ex}
8366 }

```



```

8367 % Subsubsection and following section headings shouldn't be used.
8368 % See Bringhurst's The Elements of Typography, section 4.2.2.
8369 \renewcommand\subsubsection{%
8370   \bidityftetocError{\noexpand\subsubsection is undefined by this class.%
8371     \MessageBreak See Robert Bringhurst's The Elements of
8372     \MessageBreak Typographic Style, section 4.2.2.
8373     \MessageBreak \noexpand\subsubsection was used}
8374     {From Bringhurst's The Elements of Typographic Style, section 4.2.2: Use as
8375     \MessageBreak many levels of headings as you need, no more and no fewer. Also see the m
8376     \MessageBreak related threads on Ask E.T. at http://www.edwardbidityftetoc.com/.}
8377 }
8378 \renewcommand\subparagraph{%
8379   \bidityftetocError{\noexpand\subparagraph is undefined by this class.%
8380     \MessageBreak See Robert Bringhurst's The Elements of
8381     \MessageBreak Typographic Style, section 4.2.2.
8382     \MessageBreak \noexpand\subparagraph was used}
8383     {From Bringhurst's The Elements of Typographic Style, section 4.2.2: Use as
8384     \MessageBreak many levels of headings as you need, no more and no fewer. Also see the m
8385     \MessageBreak related threads on Ask E.T. at http://www.edwardbidityftetoc.com/.}
8386 }
8387 % Formatting for main TOC (printed in front matter)
8388 % {section} [left] {above} {before w/label} {before w/o label} {filler + page} [after]
8389 \ifthenelse{\boolean{@bidityftetoc@toc}}{%
8390   \bidi@patch@AfterPackage{bidi}{%
8391     \titlecontents{part}% FIXME
8392       [0em] % distance from left margin
8393       {\vspace{1.5\baselineskip}\begin{fullwidth}\LARGE\rmfamily\itshape} % above (global form
8394       {\contentslabel{2em}} % before w/label (label = ``II'')
8395       {} % before w/o label
8396       {\rmfamily\upshape\qqquad\thecontentspage} % filler + page (leaders and page num)
8397       [\end{fullwidth}] % after
8398     \titlecontents{chapter}%
8399       [0em] % distance from left margin
8400       {\vspace{1.5\baselineskip}\begin{fullwidth}\LARGE\rmfamily\itshape} % above (global form
8401       {\hspace*{0em}\contentslabel{2em}} % before w/label (label = ``2'')
8402       {\hspace*{0em}} % before w/o label
8403       {\rmfamily\upshape\qqquad\thecontentspage} % filler + page (leaders and page num)
8404       [\end{fullwidth}] % after
8405     \titlecontents{section}% FIXME
8406       [0em] % distance from left margin
8407       {\vspace{0\baselineskip}\begin{fullwidth}\Large\rmfamily\itshape} % above (global format
8408       {\hspace*{2em}\contentslabel{2em}} % before w/label (label = ``2.6'')
8409       {\hspace*{2em}} % before w/o label
8410       {\rmfamily\upshape\qqquad\thecontentspage} % filler + page (leaders and page num)
8411       [\end{fullwidth}] % after
8412     \titlecontents{subsection}% FIXME
8413       [0em] % distance from left margin
8414       {\vspace{0\baselineskip}\begin{fullwidth}\large\rmfamily\itshape} % above (global format
8415       {\hspace*{4em}\contentslabel{4em}} % before w/label (label = ``2.6.1'')
8416       {\hspace*{4em}} % before w/o label
8417       {\rmfamily\upshape\qqquad\thecontentspage} % filler + page (leaders and page num)
8418       [\end{fullwidth}] % after
8419     \titlecontents{paragraph}% FIXME
8420       [0em] % distance from left margin

```



```

8421   {\vspace{0\baselineskip}\begin{fullwidth}\normalsize\rmfamily\itshape} % above (global f
8422   {\hspace*{6em}\contentslabel{2em}} % before w/label (label = ``2.6.0.0.1'')
8423   {\hspace*{6em}} % before w/o label
8424   {\rmfamily\upshape\quad\thecontentspage} % filler + page (leaders and page num)
8425   [\end{fullwidth}] % after
8426 }%
8427 }{}
8428 %%
8429 % Format lists of figures/tables
8430 \renewcommand\listoffigures{%
8431   \@ifundefined{chapter}%
8432     {\section*{\listfigurename}}%
8433     {\chapter*{\listfigurename}}%
8434 %   \begin{fullwidth}%
8435     \@starttoc{lof}%
8436 %   \end{fullwidth}%
8437 }
8438 \renewcommand\listoftables{%
8439   \@ifundefined{chapter}%
8440     {\section*{\listtablename}}%
8441     {\chapter*{\listtablename}}%
8442 %   \begin{fullwidth}%
8443     \@starttoc{lot}%
8444 %   \end{fullwidth}%
8445 }
8446 \newcommand{\@biditytetoc@lof@line}[2]{%
8447   % #1 is the figure/table number and its caption text
8448   % #2 is the page number on which the figure/table appears
8449   \leftskip 0.0em
8450   \rightskip 0em
8451   \parfillskip 0em plus 1fil
8452   \parindent 0.0em
8453   \@afterindenttrue
8454   \interlinepenalty\@M
8455   \leavevmode
8456   \@tempdima 2.0em
8457   \if@RTL\advance\rightskip\@tempdima\else\advance\leftskip\@tempdima\fi
8458   \null\nobreak\hskip -\if@RTL\rightskip\else\leftskip\fi
8459   {#1}\nobreak\quad\nobreak#2%
8460   \par%
8461 }
8462 \renewcommand*\l@figure{\@biditytetoc@lof@line}
8463 \let\l@table\l@figure

```

## 56 File `bidituftegeneralstructure.sty`

```

8464 \NeedsTeXFormat{LaTeX2e}
8465 \ProvidesPackage{bidituftegeneralstructure}[2011/06/18 v0.1
8466 bidi implementation of tufte general structure]
8467 \renewcommand\small{%
8468   \@setfontsize\small\@ixpt{12}%
8469   \abovedisplayskip 8.5\p@ \@plus3\p@ \@minus4\p@
8470   \abovedisplayshortskip \z@ \@plus2\p@
8471   \belowdisplayshortskip 4\p@ \@plus2\p@ \@minus2\p@

```



```

8472 \def\@listi{\leftmargin\leftmargini
8473         \topsep 4\p@ \@plus2\p@ \@minus2\p@
8474         \parsep 2\p@ \@plus\p@ \@minus\p@
8475         \itemsep \parsep}%
8476 \belowdisplayskip \abovedisplayskip
8477 }
8478 \renewcommand\scriptsize{\@setfontsize\scriptsize\@viipt\@viipt}
8479 \renewcommand\tiny{\@setfontsize\tiny\@vpt\@vpt}
8480 \renewcommand\large{\@setfontsize\large\@xipt{15}}
8481 \renewcommand\Large{\@setfontsize\Large\@xiipt{16}}
8482 \renewcommand\LARGE{\@setfontsize\LARGE\@xivpt{18}}
8483 \renewcommand\huge{\@setfontsize\huge\@xxpt{30}}
8484 \renewcommand\Huge{\@setfontsize\Huge{24}{36}}
8485 \setlength\leftmargini {1pc}
8486 \setlength\leftmarginii {1pc}
8487 \setlength\leftmarginiii {1pc}
8488 \setlength\leftmarginiv {1pc}
8489 \setlength\leftmarginv {1pc}
8490 \setlength\leftmarginvi {1pc}
8491 \setlength\labelsep {0.5pc}
8492 \setlength\labelwidth {\leftmargini}
8493 \addtolength\labelwidth{-\labelsep}
8494 \setlength{\parindent}{1.0pc}%
8495 \setlength{\parskip}{0pt}%
8496 \RequirePackage{ragged2e}
8497 \setlength{\RaggedRightRightskip}{\z@ plus 0.08\hsize}
8498 % Paragraph indentation and separation for normal text
8499 \newcommand{\@biditytgeneralstructure@reset@par}{%
8500 \setlength{\RaggedRightParindent}{1.0pc}%
8501 \setlength{\JustifyingParindent}{1.0pc}%
8502 \setlength{\parindent}{1pc}%
8503 \setlength{\parskip}{0pt}%
8504 }
8505 \@biditytgeneralstructure@reset@par
8506 % Require paralist package for tighter lists
8507 \RequirePackage{paralist}
8508 % Add rightmargin to compactenum
8509 \def\@compactenum@{%
8510 \expandafter\list\csname label\@enumctr\endcsname{%
8511 \usecounter{\@enumctr}}%
8512 \rightmargin=2em% added this
8513 \parsep\plparsep
8514 \itemsep\plitemsep
8515 \topsep\pltopsep
8516 \partopsep\plpartopsep
8517 \def\makelabel##1{\hss\llap{##1}}}}
8518 %%
8519 % An environment for paragraph-style section
8520 \providecommand\newthought[1]{%
8521 \addvspace{1.0\baselineskip plus 0.5ex minus 0.2ex}%
8522 \noindent\textbf{#1}}%
8523 }
8524 %%
8525 % Redefine the display environments (quote, quotation, etc.)

```



```

8526 \renewenvironment{verse}
8527     {\let\\\@centercr
8528         \list{}{\itemsep        \z@
8529             \itemindent    -1pc%
8530             \listparindent\itemindent
8531             \rightmargin  \leftmargin
8532             \advance\leftmargin 1pc}%
8533         \small%
8534         \item\relax}
8535     {\endlist}
8536 \renewenvironment{quotation}
8537     {\list{}{\listparindent 1pc%
8538         \itemindent    \listparindent
8539         \rightmargin  \leftmargin
8540         \parsep        \z@ \@plus\p@}%
8541         \small%
8542         \item\relax\noindent\ignorespaces}
8543     {\endlist}
8544 \renewenvironment{quote}
8545     {\list{}{\rightmargin\leftmargin}%
8546         \small%
8547         \item\relax}
8548     {\endlist}
8549 % Italicize description run-in headings (instead of the default bold)
8550 \renewcommand*{\descriptionlabel[1]}{\hspace\labelsep\normalfont\em #1}
8551 %%
8552 % Redefine \bibsection to not mark the running heads.
8553 % (Code modified from natbib.sty.)
8554 \@ifundefined{chapter}%
8555   {\renewcommand\bibsection{\section*{\refname}}}
8556   {\@ifundefined{NAT@sectionbib}%
8557     {\renewcommand\bibsection{\chapter{\bibname}}}
8558     {\renewcommand\bibsection{\section*{\bibname}}}}
8559 \RequirePackage{multicol}
8560 \renewenvironment{theindex}{%
8561 \@ifundefined{chapter}%
8562   {\section*{\indexname}}%
8563   {\chapter{\indexname}}%
8564 \begin{fullwidth}%
8565 \small%
8566 \parskip0pt%
8567 \parindent0pt%
8568 \let\item\@idxitem%
8569 \begin{multicols}{3}%
8570 }{%
8571 \end{multicols}%
8572 \end{fullwidth}%
8573 }
8574 \AtBeginDocument{%
8575 \renewcommand\@idxitem{\par\hangindent \if@RTL-\fi2em}%
8576 \renewcommand\subitem{\par\hangindent \if@RTL-\fi3em\hspace*{1em}}%
8577 \renewcommand\subsubitem{\par\hangindent \if@RTL-\fi4em\hspace*{2em}}%
8578 \renewcommand\indexspace{\par\addvspace{1.0\baselineskip plus 0.5ex minus 0.2ex}\relax}%
8579 \newcommand{\lettergroup}[1]{% swallow the letter heading in the index

```



## 57 File `bidituftehyperref.sty`

```
8580 \NeedsTeXFormat{LaTeX2e}
8581 \ProvidesPackage{bidituftehyperref}[2011/06/18 v0.1
8582 bidi implementation of tufte hyperref]
8583 %%
8584 % Color
8585 \RequirePackage[usenames,dvipsnames,svgnames]{xcolor}%
8586 \newboolean{@bidituftehyperref@loadhyper}
8587 \setboolean{@bidituftehyperref@loadhyper}{true}
8588 \DeclareOption{hyper}{\setboolean{@bidituftehyperref@loadhyper}{true}}
8589 \DeclareOption{nohyper}{\setboolean{@bidituftehyperref@loadhyper}{false}}
8590 \ProcessOptions
8591 %% Loads the hyperref package and sets some default options.
8592 \newcommand{\bidituftehyperrefLoadHyperref}{%
8593 \RequirePackage[hyperfootnotes=false,colorlinks=true]{hyperref}
8594 \hypersetup{%
8595     bookmarksdepth = section,
8596     citecolor = DarkGreen,
8597     linkcolor = DarkBlue,
8598 %     pagecolor = DarkBlue,
8599     urlcolor = DarkGreen,
8600 }%
8601 }
8602 \ifthenelse{\boolean{@bidituftehyperref@loadhyper}}{%
8603 \bidituftehyperrefLoadHyperref%
8604 }{% hyperfootnotes override our modifications to the \footnote* and \@footnote* commands.
8605 \PassOptionsToPackage{hyperfootnotes=false}{hyperref}
8606 }
```

## 58 File `bidituftetitle.sty`

```
8607 \NeedsTeXFormat{LaTeX2e}
8608 \ProvidesPackage{bidituftetitle}[2011/06/18 v0.1
8609 bidi implementation of tufte title]
8610 \RequirePackage{biditools}
8611 %%
8612 % `titlepage' option -- creates a full title page with \maketitle
8613 \newboolean{@bidituftetitle@titlepage}
8614 \DeclareOption{titlepage}{\setboolean{@bidituftetitle@titlepage}{true}}
8615 \DeclareOption{notitlepage}{\setboolean{@bidituftetitle@titlepage}{false}}
8616 % Default `book' and `handout' options
8617 \@ifclassloaded{book}{%
8618 \ExecuteOptions{titlepage}}{%
8619 \@ifclassloaded{article}{%
8620 \ExecuteOptions{notitlepage}}%
8621 {}}
8622 \ProcessOptions
8623 %%
8624 % Modified \title, \author, and \date commands. These store the
8625 % (footnote-less) values in \plaintitle, \plainauthor, and \thedate, respectively.
8626 \newcommand{\plaintitle}{}% plain-text-only title
8627 \newcommand{\plainauthor}{}% plain-text-only author
8628 \newcommand{\plainpublisher}{}% plain-text-only publisher
```





```

8629 \newcommand{\thanklesstitle}{}% full title text minus \thanks{}
8630 \newcommand{\thanklessauthor}{}% full author text minus \thanks{}
8631 \newcommand{\thanklesspublisher}{}% full publisher minus \thanks{}
8632 \newcommand{\@publisher}{}% full publisher with \thanks{}
8633 \newcommand{\thedata}{\today}
8634 \bidi@patch@AfterPackage{bidi}{%
8635 \renewcommand{\thanks}[1]{\footnote{#1}}
8636 \renewcommand{\LTRthanks}[1]{\LTRfootnote{#1}}
8637 \renewcommand{\RTLthanks}[1]{\RTLfootnote{#1}}
8638 }
8639 \renewcommand{\title}[2] []{%
8640 \gdef\@title{#2}%
8641 \begingroup%
8642 % TODO store contents of \thanks command
8643 \renewcommand{\thanks}[1]{}% swallow \thanks contents
8644 \renewcommand{\LTRthanks}[1]{}% swallow \LTRthanks contents
8645 \renewcommand{\RTLthanks}[1]{}% swallow \RTLthanks contents
8646 \protected@xdef\thanklesstitle{#2}%
8647 \endgroup%
8648 \ifthenelse{\isempty{#1}}%
8649 {\renewcommand{\plaintitle}{\thanklesstitle}}% use thankless title
8650 {\renewcommand{\plaintitle}{#1}}% use provided plain-text title
8651 \@ifundefined{hypersetup}%
8652 {}% hyperref is not loaded; do nothing
8653 {\hypersetup{pdftitle={\plaintitle}}}% set the PDF metadata title
8654 }
8655 \let\@author\@empty% suppress default latex.ltx ``no author'' warning
8656 \renewcommand{\author}[2] []{%
8657 \ifthenelse{\isempty{#2}}{\gdef\@author{#2}}%
8658 \begingroup%
8659 % TODO store contents of \thanks command
8660 \renewcommand{\thanks}[1]{}% swallow \thanks contents
8661 \renewcommand{\LTRthanks}[1]{}% swallow \LTRthanks contents
8662 \renewcommand{\RTLthanks}[1]{}% swallow \RTLthanks contents
8663 \protected@xdef\thanklessauthor{#2}%
8664 \endgroup%
8665 \ifthenelse{\isempty{#1}}%
8666 {\renewcommand{\plainauthor}{\thanklessauthor}}% use thankless author
8667 {\renewcommand{\plainauthor}{#1}}% use provided plain-text author
8668 \@ifundefined{hypersetup}%
8669 {}% hyperref is not loaded; do nothing
8670 {\hypersetup{pdfauthor={\plainauthor}}}% set the PDF metadata author
8671 }
8672 \renewcommand{\date}[1]{%
8673 \gdef\@date{#1}%
8674 \begingroup%
8675 % TODO store contents of \thanks command
8676 \renewcommand{\thanks}[1]{}% swallow \thanks contents
8677 \renewcommand{\LTRthanks}[1]{}% swallow \LTRthanks contents
8678 \renewcommand{\RTLthanks}[1]{}% swallow \RTLthanks contents
8679 \protected@xdef\thedata{#1}%
8680 \endgroup%
8681 }
8682 %%

```



```

8683 % Provides a \publisher command to set the publisher
8684 \newcommand{\publisher}[2] []{%
8685   \gdef\@publisher{#2}%
8686   \begingroup%
8687     \renewcommand{\thanks}[1]{}% swallow \thanks contents
8688     \renewcommand{\LTRthanks}[1]{}% swallow \LTRthanks contents
8689     \renewcommand{\RTLthanks}[1]{}% swallow \RTLthanks contents
8690     \protected@xdef\thanklesspublisher{#2}%
8691   \endgroup%
8692   \ifthenelse{\isempty{#1}}
8693     {\renewcommand{\plainpublisher}{\thanklesspublisher}}% use thankless publisher
8694     {\renewcommand{\plainpublisher}{#1}}% use provided plain-text publisher
8695 }
8696 %%
8697 % Produces a full title page
8698 \newcommand{\maketitlepage}[0]{%
8699   \cleardoublepage%
8700   {%
8701     \bfseries%
8702     \begin{fullwidth}%
8703       \fontsize{18}{20}\selectfont\par\noindent\thanklessauthor%
8704       \vspace{11.5pc}%
8705       \fontsize{36}{40}\selectfont\par\noindent\thanklesstitle%
8706       \vfill%
8707       \fontsize{14}{16}\selectfont\par\noindent\thanklesspublisher%
8708     \end{fullwidth}%
8709   }
8710   \thispagestyle{empty}%
8711   \clearpage%
8712 }
8713 %%
8714 % Title block
8715 \bidi@AfterEndPreamble{%
8716 \renewcommand{\maketitle}{%
8717   \newpage%
8718   \global\@topnum\z@% prevent floats from being placed at the top of the page
8719   \begingroup%
8720     \setlength{\parindent}{0pt}%
8721     \setlength{\parskip}{4pt}%
8722     \let\@title\@empty%
8723     \let\@author\@empty%
8724     \let\@date\@empty%
8725     \gdef\@title{\LARGE\itshape\@title\par}%
8726     \gdef\@author{\Large\itshape\@author\par}%
8727     \gdef\@date{\Large\itshape\@date\par}%
8728     \@title%
8729     \@author%
8730     \@date%
8731   \endgroup%
8732   \thispagestyle{plain}% suppress the running head
8733 }%
8734 }
8735 %%
8736 % Title page (if the `titlepage' option was passed to the bidenttitle-handout

```



```

8737 % class.)
8738 \bidi@AfterEndPreamble{%
8739 \ifthenelse{\boolean{@biditytetitle@titlepage}}
8740   {\renewcommand{\maketitle}{\maketitlepage}}
8741   {}
8742 }
8743 %%
8744 % When \cleardoublepage is called, produce a blank (empty) page -- i.e.,
8745 % without headers and footers
8746 \def\cleardoublepage{\clearpage\if@twoside\ifodd\c@page\else
8747   \hbox{}
8748   %\vspace*{\fill}
8749   %\begin{center}
8750   % This page intentionally contains only this sentence.
8751   %\end{center}
8752   %\vspace{\fill}
8753   \thispagestyle{empty}
8754   \newpage
8755   \if@twocolumn\hbox{}\newpage\fi\fi\fi}

```

## 59 File `biditufte-handout.cls`

```

8756 \NeedsTeXFormat{LaTeX2e}[1994/06/01]
8757 \ProvidesClass{biditufte-handout}[2011/06/18 v0.1 biditufte-handout class]
8758 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{article}}
8759 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{bidituftefloat}}
8760 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{bidituftetoc}}
8761 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{bidituftehyperref}}
8762 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{bidituftetitle}}
8763 \ProcessOptions\relax
8764 \LoadClass{article}
8765 \RequirePackage{bidituftefloat}
8766 \RequirePackage{bidituftesidenote}
8767 \RequirePackage{bidituftetoc}
8768 \RequirePackage{bidituftegeneralstructure}
8769 \RequirePackage{bidituftehyperref}
8770 \RequirePackage{bidituftetitle}
8771 \renewenvironment{abstract}
8772   {\begin{quotation}}
8773   {\end{quotation}}
8774 \AtBeginDocument{%
8775 \IfFileExists{biditufte-handout.cfg}
8776   {\input{biditufte-handout.cfg}
8777   \ClassInfo{biditufte-handout}{Loading biditufte-handout configuration file \@gobble}}
8778   {}}%
8779 }

```

## 60 File `biditufte-book.cls`

```

8780 \NeedsTeXFormat{LaTeX2e}[1994/06/01]
8781 \ProvidesClass{biditufte-book}[2011/06/18 v0.1 biditufte-book class]
8782 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{book}}
8783 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{bidituftefloat}}
8784 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{bidituftetoc}}

```



```

8785 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{biditytethehyperref}}
8786 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{biditytettetitle}}
8787 \ProcessOptions\relax
8788 \LoadClass{book}
8789 \RequirePackage{biditytethefloat}
8790 \RequirePackage{biditytethesidenote}
8791 \RequirePackage{biditytettetoc}
8792 \RequirePackage{biditytethegeneralstructure}
8793 \RequirePackage{biditytethehyperref}
8794 \RequirePackage{biditytettetitle}
8795 %%
8796 % Set up any book-specific stuff now
8797 %%
8798 % The front matter in Tufte's /Beautiful Evidence/ contains everything up
8799 % to the opening page of Chapter 1. The running heads, when they appear,
8800 % contain only the (arabic) page number in the outside corner.
8801 %\newif\if@mainmatter \@mainmattertrue
8802 \renewcommand\frontmatter{%
8803   \cleardoublepage%
8804   \@mainmatterfalse%
8805   \pagenumbering{arabic}%
8806   %\pagestyle{plain}%
8807   \fancyhf{}%
8808   \ifthenelse{\boolean{@biditytethefloat@twoside}}%
8809     {\fancyhead[LE,RO]{\thepage}}%
8810     {\fancyhead[RE,RO]{\thepage}}%
8811 }
8812 %%
8813 % The main matter in Tufte's /Beautiful Evidence/ doesn't restart the page
8814 % numbering---it continues where it left off in the front matter.
8815 \renewcommand\mainmatter{%
8816   \cleardoublepage%
8817   \@mainmattertrue%
8818   \fancyhf{}%
8819   \ifthenelse{\boolean{@biditytethefloat@twoside}}%
8820     {\renewcommand{\chaptermark}[1]{\markboth{##1}{}}}%
8821     {\fancyhead[LE]{\thepage\quad\smallcaps{\newlinetospace{\plaintitle}}}% book title
8822     \fancyhead[RO]{\smallcaps{\newlinetospace{\leftmark}}\quad\thepage}% chapter title
8823     {\fancyhead[RE,RO]{\smallcaps{\newlinetospace{\plaintitle}}\quad\thepage}}% book title
8824 }
8825 %%
8826 % The back matter contains appendices, indices, glossaries, endnotes,
8827 % bibliographies, list of contributors, illustration credits, etc.
8828 \renewcommand\backmatter{%
8829   \if@openright%
8830     \cleardoublepage%
8831   \else%
8832     \clearpage%
8833   \fi%
8834   \@mainmatterfalse%
8835 }
8836 %%
8837 % Only show the chapter titles in the table of contents
8838 \setcounter{tocdepth}{0}

```



```

8839 \AtBeginDocument{%
8840 \IfFileExists{biditufte-book.cfg}
8841   {\input{biditufte-book.cfg}
8842    \ClassInfo{biditufte-book}{Loading biditufte-book configuration file \@gobble}}
8843   {}%
8844 }

```

## 61 File bidipoem.sty

```

8845 \NeedsTeXFormat{LaTeX2e}
8846 \ProvidesPackage{bidipoem}%
8847 [2019/03/03 v1.0 Environments for typesetting Persian traditional and modern poems]
8848
8849 % Usage:
8850 %
8851 % \Setversedim #1#2 % define the layout (within a group):
8852 % #1 = length of both half-verses
8853 % #2 = separation distance = length of a connection, if present
8854 % Variant:
8855 % \Setversedim #1[#2]#3 % for half-verses of unequal length
8856 % #1 = length of first (=right) half-verse
8857 % #2 = length of second (=left) half-verse
8858 % #3 = separation distance = length of a connection, if present
8859 %
8860 % \traditionalhalfverses #1#2 % typeset two separated half-verses
8861 % #1 = text of first (=right) half-verse
8862 % #2 = text of second (=left) half-verse
8863 % Variant:
8864 % \traditionalhalfverses #1[#2]#3 % typeset two connected half-verses
8865 % #1 = text of first (=right) half-verse
8866 % #2 = text of connection
8867 % #3 = text of second (=left) half-verse
8868 %
8869 % Alternative (if preferred):
8870 %
8871 % \traditionalconnverses #1#2#3 % = \traditionalhalfverses #1[#2]#3
8872
8873
8874 \newcommand*{\bidipoem@spreadbox}[2]{\hbox to #1{#2}}
8875
8876 % define the layout, verses will be centered
8877
8878 \newdimen \bidipoem@hvlen \newdimen \bidipoem@hvsep
8879 \newdimen \bidipoem@hvind \newdimen \bidipoem@@hvlen
8880
8881 \newcommand*{\Setversedim}[2]{% set lengths of half-verse, [separation]
8882 \bidipoem@hvind \textwidth
8883 \bidipoem@hvlen #1\relax \advance \bidipoem@hvind -\bidipoem@hvlen
8884 \ifx [#2\def \bidipoem@next {\bidipoem@set@verseI []}\else
8885 \bidipoem@@hvlen \bidipoem@hvlen \def \bidipoem@next {\bidipoem@set@@verse {#2}}\fi \bidipoem@
8886
8887 \def \bidipoem@set@verseI [#1]{% optional parameter
8888 \bidipoem@@hvlen #1\relax \bidipoem@set@@verse }
8889

```



```

8890 \newcommand*{\bidipoem@set@@verse}[1]{% separation
8891 \advance \bidipoem@hvind -\bidipoem@hvlens \bidipoem@hvsep #1\relax
8892 \advance \bidipoem@hvind -\bidipoem@hvsep \divide \bidipoem@hvind 2 }
8893
8894 \newcommand*{\traditionalconnverses}[3]{% first half-verse, connection, second half-verse
8895 \ifdim Opt > \bidipoem@hvind %
8896 \bidipoem@spreadbox \bidipoem@hvlens {#1}\\ \hfill % first block
8897 \else
8898 \noindent \hskip \bidipoem@hvind \relax \bidipoem@spreadbox \bidipoem@hvlens {#1}\fi
8899 \bidipoem@spreadbox \bidipoem@hvsep {#2}% separator
8900 \bidipoem@spreadbox \bidipoem@hvlens {#3}% second block
8901 \par }
8902
8903 % macro for two half verses
8904 \newcommand*{\traditionalhalfverses}[2]{% optional parameter?
8905 \ifx [#2\def\bidipoem@half@verses@next{\bidipoem@half@verses {#1}[]}%
8906 \else\def\bidipoem@half@verses@next{\bidipoem@half@verses {#1}[\hfill]{#2}}\fi%
8907 \bidipoem@half@verses@next}
8908
8909 \def \bidipoem@half@verses #1[#2]#3{% first[mid]second
8910 \traditionalconnverses {#1}-{#2}-{#3}}
8911
8912
8913 {\catcode\^^M=\active % these lines must end with %
8914 \gdef\traditionalpoem@obeylines{\catcode\^^M\active \let^^M\traditionalpoem@par}%
8915 \global\let^^M\traditionalpoem@par} % this is in case ^^M appears in a \write
8916 {\catcode\^^M=\active % these lines must end with %
8917 \gdef\modernpoem@obeylines{\catcode\^^M\active \let^^M\modernpoem@par}%
8918 \global\let^^M\modernpoem@par} % this is in case ^^M appears in a \write
8919 \def\poemcolsepskip{.1\versewidth plus .1\versewidth minus .05\versewidth}
8920 \def\poemmarginskip{1em plus 1fil minus 1em}
8921 \def\poemextrabaseskip{0\baselineskip}
8922 \def\poemskip{\medskip}
8923 \newcommand{\bidipoem@openbox}{\leavevmode
8924 \hbox to.77778em{%
8925 \hfil\vrule
8926 \vbox to.675em{\hrule width.6em\vfil\hrule}%
8927 \vrule\hfil}}
8928 \def\poemblocksep{\quad\hbox{\bidipoem@openbox}}
8929 \newdimen\versewidth
8930 \newtoks\bidipoem@p@ftn
8931 \def\poem@verse#1{%
8932 \ifdim\wd#1>\new@poem@width
8933 \xdef\new@poem@width{\the\wd#1}%
8934 \ifdim\new@poem@width>\poem@width
8935 \xdef\poem@width{\new@poem@width}%
8936 \global\let\poem@needrun\relax
8937 \fi
8938 \fi
8939 \hbox to\poem@width{\unhbox#1}%
8940 \global\bidipoem@p@ftn\expandafter{\expandafter}\the\bidipoem@p@ftn%
8941 }
8942 \def\poem@linebegin{\vadjust}\hskip\@flushglue\hskip\poemmarginskip\relax}
8943 \def\poem@lineend{\nobreak\hskip\poemmarginskip\hskip\@flushglue\vadjust}

```



```

8944 \def\poem@lineversesep{%
8945 \nobreak
8946 \hskip\z@ plus 1filll%
8947 \penalty600%
8948 \hskip\poemcolsepskip
8949 \hskip\z@ plus -2filll%
8950 \vadjust{}%
8951 \nobreak
8952 \hskip\z@ plus 1filll%
8953 }
8954 \def\poem@lineparsebegin{%
8955 \halign\bgroup
8956 \global\setbox\verse@i=\hbox{%
8957 \let\@footnotetext\bidipoem@p@ftntext%
8958 \let\@LTRfootnotetext\bidipoem@p@LTRftntext%
8959 \let\@RTLfootnotetext\bidipoem@p@RTLftntext%
8960 \let\@xfootnotenext\bidipoem@p@xftntext%
8961 \let\@xfootnote\bidipoem@p@xfootnote%
8962 \let\@xLTRfootnotenext\bidipoem@p@xLTRftntext%
8963 \let\@xLTRfootnote\bidipoem@p@xLTRfootnote%
8964 \let\@xRTLfootnotenext\bidipoem@p@xRTLftntext%
8965 \let\@xRTLfootnote\bidipoem@p@xRTLfootnote%
8966 \ignorespaces##\unskip}&&
8967 \global\setbox\verse@ii=\hbox{%
8968 \let\@footnotetext\bidipoem@p@ftntext%
8969 \let\@LTRfootnotetext\bidipoem@p@LTRftntext%
8970 \let\@RTLfootnotetext\bidipoem@p@RTLftntext%
8971 \let\@xfootnotenext\bidipoem@p@xftntext%
8972 \let\@xfootnote\bidipoem@p@xfootnote%
8973 \let\@xLTRfootnotenext\bidipoem@p@xLTRftntext%
8974 \let\@xLTRfootnote\bidipoem@p@xLTRfootnote%
8975 \let\@xRTLfootnotenext\bidipoem@p@xRTLftntext%
8976 \let\@xRTLfootnote\bidipoem@p@xRTLfootnote%
8977 \ignorespaces##\unskip}
8978 \cr
8979 }
8980 \def\poem@lineparseend{%
8981 \crr\egroup
8982 \vskip-\baselineskip
8983 }
8984 \def\traditionalpoem@cr{%
8985 \cr\poem@line
8986 }
8987 \newbox\verse@i
8988 \newbox\verse@ii
8989 \newif\ifpoem@started
8990
8991 \def\poem@line{%
8992 \poem@lineparseend
8993 \ifdim\wd\verse@i>\z@\global\poem@startedtrue\fi
8994 \ifdim\wd\verse@ii>\z@\global\poem@startedtrue\fi
8995 \ifpoem@started
8996 \ifdim\wd\verse@ii>\z@\else
8997 \nopagebreak[3]

```



```

8998 \fi
8999 \leavevmode
9000 \poem@linebegin
9001 \poem@verse\verse@i
9002 \ifdim\wd\verse@ii>\z@
9003 \poem@lineversesep
9004 \poem@verse\verse@ii
9005 \fi
9006 \poem@lineend
9007 % \nopagebreak
9008 \par
9009 \vskip\poemextrabaselineskip
9010 \fi
9011 \poem@lineparsebegin
9012 }
9013 \def\@traditionalpoem{%
9014 \stepcounter{poem@no}
9015 \ifnum\max@poem@no<\number\c@poem@no%
9016 \xdef\poem@width{\z@}%
9017 \else
9018 \xdef\poem@width{\poem@prop{poem@width}}%
9019 \fi
9020 \xdef\new@poem@width{\z@}%
9021 \global\versewidth=\poem@width
9022 \poemskip\par
9023 \begingroup
9024 \tabskip=\z@
9025 \parskip=\z@
9026 \parindent=\z@
9027 \parfillskip=\z@
9028 \rightskip=\z@
9029 \leftskip=\z@
9030 \widowpenalty=10000% No break between verses of the same line.
9031 \clubpenalty=10000% Same as above. Not really needed.
9032 \def\newblock{\hfil\poemblocksep\hfil\null}%
9033 \def\traditionalpoem@par{\traditionalpoem@cr}% Redefine \par for possible \obeylines
9034 \def\{\global\poem@startedtrue\traditionalpoem@cr}%
9035 \global\poem@startedfalse
9036 \csname poem@obeylines\endcsname
9037 \let\poem@obeylines\relax
9038 \poem@lineparsebegin
9039 }
9040 \def\@endtraditionalpoem{%
9041 \cr
9042 \ifdim\wd\verse@i>\z@\poem@line\else\ifdim\wd\verse@ii>\z@\poem@line\else
9043 \noalign{%
9044 \skip0=\poemextrabaselineskip
9045 \vskip-\skip0
9046 \vskip-\baselineskip
9047 }%
9048 \fi\fi
9049 \poem@lineparseend
9050 \endgroup
9051 \par

```





```

9052 \vskip\baselineskip
9053 \poemskip
9054 \ifdim\new@poem@width<\poem@width
9055 \global\let\poem@needrun\relax
9056 \fi
9057     \poem@write@aux{poem@width\romannumeral\c@poem@no}{\new@poem@width}%
9058 \ifx\AtEndDocument\undefined\poem@finish\fi
9059 \@endparenv
9060 }
9061
9062
9063 \long\def\bidipoem@p@ftntext#1{%
9064   \edef\@tempxi{\the\bidipoem@p@ftn\noexpand\footnotetext[\the\csname c@\mpfn\endcsname]}%
9065   \global\bidipoem@p@ftn\expandafter{\@tempxi{#1}}}%
9066 \long\def\bidipoem@p@LTRftntext#1{%
9067   \edef\@tempxi{\the\bidipoem@p@ftn\noexpand\LTRfootnotetext[\the\csname c@\mpfn\endcsname]}%
9068   \global\bidipoem@p@ftn\expandafter{\@tempxi{#1}}}%
9069 \long\def\bidipoem@p@RTLftntext#1{%
9070   \edef\@tempxii{\the\bidipoem@p@ftn\noexpand\RTLfootnotetext[\the\csname c@\mpfn\endcsname]}%
9071   \global\bidipoem@p@ftn\expandafter{\@tempxii{#1}}}%
9072
9073 \long\def\bidipoem@p@xftntext[#1]#2{%
9074   \global\bidipoem@p@ftn\expandafter{\the\bidipoem@p@ftn\footnotetext[#1]{#2}}}
9075
9076 \long\def\bidipoem@p@xLTRftntext[#1]#2{%
9077   \global\bidipoem@p@ftn\expandafter{\the\bidipoem@p@ftn\LTRfootnotetext[#1]{#2}}}
9078
9079 \long\def\bidipoem@p@xRTLftntext[#1]#2{%
9080   \global\bidipoem@p@ftn\expandafter{\the\bidipoem@p@ftn\RTLfootnotetext[#1]{#2}}}
9081
9082 \def\bidipoem@p@xfootnote[#1]{%
9083   \begingroup
9084     \csname c@\mpfn\endcsname #1\relax
9085     \unrestored@protected@xdef\@thefnmark{\thempfn}%
9086   \endgroup
9087   \@footnotemark\bidipoem@p@xftntext[#1]}
9088
9089 \def\bidipoem@p@xLTRfootnote[#1]{%
9090   \begingroup
9091     \csname c@\mpfn\endcsname #1\relax
9092     \unrestored@protected@xdef\@thefnmark{\thempfn}%
9093   \endgroup
9094   \@footnotemark\bidipoem@p@xLTRftntext[#1]}
9095
9096 \def\bidipoem@p@xRTLfootnote[#1]{%
9097   \begingroup
9098     \csname c@\mpfn\endcsname #1\relax
9099     \unrestored@protected@xdef\@thefnmark{\thempfn}%
9100   \endgroup
9101   \@footnotemark\bidipoem@p@xRTLftntext[#1]}
9102
9103
9104
9105 \newenvironment{traditionalpoem}{\@traditionalpoem}{\@endtraditionalpoem}

```



```

9106 \expandafter\def\csname traditionalpoem*\endcsname{\let\poem@obeylines=\traditionalpoem@obey
9107 \expandafter\def\csname endtraditionalpoem*\endcsname{\endtraditionalpoem}
9108 \def\poem@finish{%
9109 \poem@write@aux{max@poem@no}{\number\c@poem@no}%
9110 \ifx\poem@needrun\relax
9111 \PackageWarning{bidipoem}{Unjustified poem. Rerun XeLaTeX to get poem right}%
9112 \global\let\poem@needrun\undefined
9113 \fi
9114 }
9115 \ifx\AtEndDocument\undefined\else\AtEndDocument\poem@finish\fi
9116 \newcounter{poem@no}\setcounter{poem@no}{\z@}
9117 \ifx\max@poem@no\undefined
9118     \def\max@poem@no{0}%
9119 \fi
9120 \newcommand{\poem@prop}[1]{\@nameuse{#1\romannumeral\c@poem@no}}
9121 \newcommand{\poem@write@aux}[2]{%
9122     \def\@x{\immediate\write\@auxout{\global\noexpand\@namedef{#1}{#2}}}%
9123     \@x
9124 }
9125 \def\@modernpoem{%
9126 \par
9127 \begingroup
9128 \parskip=\z@
9129 \parindent=\z@
9130 \def\[{ \@settab\@tabplus\ignorespaces}%
9131 \def\]{ \@tabminus\ignorespaces}%
9132 \def\newblock{\poemblocksep}%
9133 \let\newpoem@tabcr\@tabcr
9134 \def\modernpoem@par{% Redefine \par for possible \obeylines
9135     \ifpoem@started\else
9136         \ifdim\wd\@curline>\z@\global\poem@startedtrue\else
9137             \@stopfield
9138             \ifdim\wd\@curfield>\z@\global\poem@startedtrue\fi
9139             \@contfield
9140         \fi
9141     \fi
9142     \ifpoem@started\newpoem@tabcr\fi}%
9143 \def\@tabcr{\global\poem@startedtrue\newpoem@tabcr}%
9144 \global\poem@startedfalse
9145 \csname poem@obeylines\endcsname
9146 \let\poem@obeylines\relax
9147 \begin{tabbing}%
9148 }
9149 \def\@endmodernpoem{%
9150 \global\poem@startedfalse
9151 \ifdim\wd\@curline>\z@\global\poem@startedtrue\else
9152     \@stopfield
9153     \ifdim\wd\@curfield>\z@\global\poem@startedtrue\fi
9154     \@contfield
9155 \fi
9156 \ifpoem@started\else\let\@stopline\@stopfield\fi
9157 \end{tabbing}%
9158 \endgroup
9159 \par

```



```

9160 \if@noparlist \else
9161   \ifdim\lastskip >\z@
9162     \@tempskipa\lastskip \vskip -\lastskip
9163     \advance\@tempskipa\parskip \advance\@tempskipa -\@outerparskip
9164     \vskip\@tempskipa
9165   \fi
9166   \@endparenv
9167 \fi
9168 }
9169 \newenvironment{modernpoem}{\@modernpoem}{\@endmodernpoem}
9170 \expandafter\def\csname modernpoem*\endcsname{\let\poem@obeylines=\modernpoem@obeylines\mode
9171 \expandafter\def\csname endmodernpoem*\endcsname{\endmodernpoem}
9172 \gdef\@startfield{%
9173 \global\setbox\@curfield\hbox\bgroup%
9174 \let\@footnotetext\bidipoem@p@ftntext%
9175 \let\@LTRfootnotetext\bidipoem@p@LTRftntext%
9176 \let\@RTLfootnotetext\bidipoem@p@RTLftntext%
9177 \let\@xfootnotenext\bidipoem@p@xftntext%
9178 \let\@xfootnote\bidipoem@p@xfootnote%
9179 \let\@xLTRfootnotenext\bidipoem@p@xLTRftntext%
9180 \let\@xLTRfootnote\bidipoem@p@xLTRfootnote%
9181 \let\@xRTLfootnotenext\bidipoem@p@xRTLftntext%
9182 \let\@xRTLfootnote\bidipoem@p@xRTLfootnote%
9183 \color@begingroup}
9184 \gdef\@stopfield{%
9185 \color@endgroup\egroup\global\bidipoem@p@ftn\expandafter{\expandafter}\the\bidipoem@p@ftn}
9186 \gdef\@contfield{%
9187 \global\setbox\@curfield\hbox\bgroup%
9188 \let\@footnotetext\bidipoem@p@ftntext%
9189 \let\@LTRfootnotetext\bidipoem@p@LTRftntext%
9190 \let\@RTLfootnotetext\bidipoem@p@RTLftntext%
9191 \let\@xfootnotenext\bidipoem@p@xftntext%
9192 \let\@xfootnote\bidipoem@p@xfootnote%
9193 \let\@xLTRfootnotenext\bidipoem@p@xLTRftntext%
9194 \let\@xLTRfootnote\bidipoem@p@xLTRfootnote%
9195 \let\@xRTLfootnotenext\bidipoem@p@xRTLftntext%
9196 \let\@xRTLfootnote\bidipoem@p@xRTLfootnote%
9197 \color@begingroup\unhbox\@curfield}

```

## 62 File boek3-xetex-bidi.def

```

9198 \ProvidesFile{boek3-xetex-bidi.def}[2017/06/09 v0.4 bidi adaptations for boek3 class for XeT
9199 \renewenvironment{theindex}{%
9200 \if@twocolumn
9201   \@restonecolfalse
9202 \else
9203   \@restonecoltrue
9204 \fi
9205 \columnseprule \z@
9206 \columnsep 35\p@
9207 \twocolumn[\@makeschapterhead{\indexname}]%
9208 \@mkboth{\MakeUppercase{\indexname}}{\MakeUppercase{\indexname}}%
9209 \thispagestyle{plain}\parindent\z@
9210 \parskip\z@ \@plus .3\p@\relax

```



```

9211 \let\item\@idxitem
9212 }{%
9213 \if@restonecol\onecolumn\else\clearpage\fi}
9214 \renewcommand* \head@style{%
9215   \interlinepenalty \@M
9216   \hyphenpenalty=\@M \exhyphenpenalty=\@M
9217   \if@RTL\leftskip\else\rightskip\fi=0cm plus .7\hsize\relax}
9218 \renewcommand*\@regtocoline[3]{%
9219   \ifnum #1>\c@tocdepth
9220   \else
9221     \vskip\z@\@plus.2\p@
9222     { \hangindent\z@ \afterindenttrue \interlinepenalty\@M
9223       \if@RTL\rightskip\else\leftskip\fi\unitindent
9224       \if@RTL\leftskip\else\rightskip\fi\unitindent\@plus 1fil
9225       \parfillskip\z@
9226       \@tempdima\unitindent
9227       \parindent\z@
9228       \leavevmode
9229       \hbox{} \hskip -\if@RTL\rightskip\else\leftskip\fi\relax#2\nobreak
9230       \hskip 1em \nobreak{\slshape #3}\par
9231     }%
9232   \fi}
9233 \if@oldtoc
9234 \renewcommand*\l@part[2]{%
9235   \ifnum \c@tocdepth >-2\relax
9236     \addpenalty{-\@highpenalty}%
9237     \addvspace{2.25em \@plus\p@}%
9238     \begingroup
9239       \setlength\@tempdima{3em}%
9240       \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
9241       \parfillskip -\@pnumwidth
9242       {\leavevmode
9243         \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
9244         \nobreak
9245         \global\@nobreaktrue
9246         \everypar{\global\@nobreakfalse\everypar{}}%
9247       \endgroup
9248   \fi}
9249 \else
9250   \renewcommand*\l@part{%
9251     \ifnum \c@tocdepth >-2\relax
9252       \addpenalty{-\@highpenalty}%
9253       \addvspace{2.25em \@plus \p@}%
9254       \@regtocoline{0}%
9255     \fi}
9256 \fi
9257 \if@oldtoc
9258 \renewcommand*\l@chapter[2]{%
9259   \addpenalty{-\@highpenalty}%
9260   \vskip 1.0em \@plus\p@
9261   \setlength\@tempdima{1.5em}%
9262   \begingroup
9263     \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
9264     \parfillskip -\@pnumwidth

```



```

9265 \leavevmode \bfseries
9266 \advance\if@RTL\rightskip\else\leftskip\fi@tempdima
9267 \hskip -\if@RTL\rightskip\else\leftskip\fi
9268 #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
9269 \penalty\@highpenalty
9270 \endgroup}
9271 \else
9272 \renewcommand*\l@chapter{\@regtocline{0}}
9273 \fi
9274 \renewenvironment{abstract}{%
9275 \titlepage
9276 \null\vfil
9277 \section*\SectFont \abstractname}
9278 \noindent\ignorespaces}
9279 {\par\vfil\null\endtitlepage}
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\clubpenalty4000\widowpenalty4000}
9294 \sfcode\.\@m}
9295 {\def\@noitemerr
9296 {\@latex@warning{Empty `thebibliography' environment}}}%
9297 \endlist}
9298 \renewcommand*\left@footnoterule{%
9299 \kern-3\p@
9300 \kern.5\baselineskip
9301 \hrule\@width\unitindent
9302 \kern.4\baselineskip
9303 }
9304 \renewcommand*\right@footnoterule{%
9305 \kern-3\p@
9306 \kern.5\baselineskip
9307 \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\unitindent\relax \hrulefill }
9308 \kern.4\baselineskip}
9309 \renewcommand*\thesection{\thechapter\@SepMark\@arabic\c@section}
9310 \renewcommand*\thesubsection{\thesection\@SepMark\@arabic\c@subsection}
9311 \renewcommand*\thesubsubsection{\thesubsection\@SepMark\@arabic\c@subsubsection}
9312 \renewcommand*\theparagraph{\thesubsubsection\@SepMark\@arabic\c@paragraph}
9313 \renewcommand*\thesubparagraph{\theparagraph\@SepMark\@arabic\c@subparagraph}
9314 \renewcommand*\theequation{%
9315 \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@equation}
9316 \renewcommand*\thefigure{%
9317 \ifnum\c@chapter>\z@\thechapter\@SepMark\fi\@arabic\c@figure}
9318 \renewcommand*\thetable{%

```



```

9319 \ifnum\c@chapter>\z@\thechapter\@SepMark\fi\@arabic\c@table}
9320 \renewcommand*\maketitle{%
9321 \begin{titlepage}%
9322 \let\footnotesize\small
9323 \let\right@footnoterule\relax
9324 \let\left@footnoterule\relax
9325 \let\textwidth@footnoterule\relax
9326 \let \footnote \thanks
9327 \long\def\@makefntext##1{\parindent\z@
9328 \def\labelitemi{\textendash}\@crevlabeltrue
9329 \leavevmode\@textsuperscript{\@thefnmark}\kern1em\relax ##1}
9330 \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
9331 \if@compatibility\setcounter{page}{0}\fi
9332 \null\vfil
9333 \vskip 60\p@
9334 \begin{center}%
9335 \TitleFont
9336 {\LARGE \def\{\{\penalty -\@M}
9337 \if@allcaps
9338 \expandafter\uc@nothanks\@title\thanks\relax
9339 \else
9340 \@title
9341 \fi\par}%
9342 \vskip 3em%
9343 {\large
9344 \lineskip .75em \parindent\z@
9345 \begin{tabular}[t]{c}%
9346 \if@allcaps
9347 \expandafter\uc@authornothanks\@author\and\relax
9348 \else
9349 \@author
9350 \fi
9351 \end{tabular}\par}%
9352 \vskip 1.5em%
9353 {\large
9354 \if@allcaps
9355 \uppercase\expandafter{\@date}%
9356 \else
9357 \@date
9358 \fi\par}%
9359 \end{center}\par
9360 \@thanks
9361 \vfil\null
9362 \end{titlepage}%
9363 \setcounter{footnote}{0}%
9364 \global\let\thanks\relax
9365 \global\let\maketitle\relax
9366 \global\let\@thanks\@empty
9367 \global\let\@author\@empty
9368 \global\let\@title\@empty
9369 \global\let\@date\@empty
9370 \global\let\title\relax
9371 \global\let\author\relax
9372 \global\let\date\relax

```



```

9373 \global\let\and\relax
9374 }

```

## 63 File boek-xetex-bidi.def

```

9375 \ProvidesFile{boek-xetex-bidi.def}[2017/06/09 v0.4 bidi adaptations for boek class for XeTeX
9376 \renewenvironment{theindex}{%
9377 \if@twocolumn
9378 \@restonecolfalse
9379 \else
9380 \@restonecoltrue
9381 \fi
9382 \columnseprule \z@
9383 \columnsep 35\p@
9384 \twocolumn[\@makeschapterhead{\indexname}]%
9385 \mkboth{\MakeUppercase{\indexname}}{\MakeUppercase{\indexname}}%
9386 \thispagestyle{plain}\parindent\z@
9387 \parskip\z@ \@plus .3\p@\relax
9388 \let\item\@idxitem
9389 }{%
9390 \if@restonecol\onecolumn\else\clearpage\fi}
9391 \renewcommand*{\head@style}{%
9392 \interlinepenalty \@M
9393 \hyphenpenalty=\@M \exhyphenpenalty=\@M
9394 \if@RTL\leftskip\else\rightskip\fi=0cm plus .7\hsize\relax}
9395 \renewcommand*{\regtocline}[3]{%
9396 \ifnum #1>\c@tocdepth
9397 \else
9398 \vskip\z@\@plus.2\p@
9399 {\hangindent\z@ \@afterindenttrue \interlinepenalty\@M
9400 \if@RTL\rightskip\else\leftskip\fi\unitindent
9401 \if@RTL\leftskip\else\rightskip\fi\unitindent\@plus 1fil
9402 \parfillskip\z@
9403 \@tempdima\unitindent
9404 \parindent\z@
9405 \leavevmode
9406 \hbox{} \hskip -\if@RTL\rightskip\else\leftskip\fi\relax#2\nobreak
9407 \hskip 1em \nobreak{\slshape #3}\par
9408 }%
9409 \fi}
9410 \if@oldtoc
9411 \renewcommand*\l@part[2]{%
9412 \ifnum \c@tocdepth >-2\relax
9413 \addpenalty{-\@highpenalty}%
9414 \addvspace{2.25em \@plus\p@}%
9415 \begingroup
9416 \setlength\@tempdima{3em}%
9417 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
9418 \parfillskip -\@pnumwidth
9419 {\leavevmode
9420 \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
9421 \nobreak
9422 \global\@nobreaktrue
9423 \everypar{\global\@nobreakfalse\everypar{}}%

```



```

9424 \endgroup
9425 \fi}
9426 \else
9427 \renewcommand*\l@part{%
9428 \ifnum \c@tocdepth >-2\relax
9429 \addpenalty{-\@highpenalty}%
9430 \addvspace{2.25em \@plus \p@}%
9431 \@regtocline{0}%
9432 \fi}
9433 \fi
9434 \if@oldtoc
9435 \renewcommand*\l@chapter[2]{%
9436 \addpenalty{-\@highpenalty}%
9437 \vskip 1.0em \@plus\p@
9438 \setlength\@tempdima{1.5em}%
9439 \begingroup
9440 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
9441 \parfillskip -\@pnumwidth
9442 \leavevmode \bfseries
9443 \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
9444 \hskip -\if@RTL\rightskip\else\leftskip\fi
9445 #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
9446 \penalty\@highpenalty
9447 \endgroup}
9448 \else
9449 \renewcommand*\l@chapter{\@regtocline{0}}
9450 \fi
9451 \renewcommand*\left@footnoterule{%
9452 \kern-3\p@
9453 \kern.5\baselineskip
9454 \hrule\@width\unitindent
9455 \kern.4\baselineskip
9456 }
9457 \renewcommand*\right@footnoterule{%
9458 \kern-3\p@
9459 \kern.5\baselineskip
9460 \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\unitindent\relax \hrulefill }
9461 \kern.4\baselineskip}
9462 \renewenvironment{abstract}{%
9463 \titlepage
9464 \null\vfil
9465 \section*{\SectFont \abstractname}
9466 \noindent\ignorespaces}
9467 {\par\vfil\null\endtitlepage}
9468 \renewenvironment{thebibliography}[1]
9469 {\chapter*{\bibname}%
9470 \@mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}%
9471 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
9472 \bidi@thebibliography@font@hook%
9473 \list{\@biblabel{\@arabic\c@enumiv}}%
9474 {\settowidth\labelwidth{\@biblabel{#1}}%
9475 \leftmargin\labelwidth
9476 \advance\leftmargin\labelsep
9477 \@openbib@code

```





```

9478         \usecounter{enumiv}%
9479         \let\p@enumiv\@empty
9480         \renewcommand*\theenumiv{\@arabic\c@enumiv}}%
9481     \sloppy\clubpenalty4000\widowpenalty4000%
9482     \sfcode`. \@m}
9483     {\def\@noitemerr
9484       {\@latex@warning{Empty `thebibliography' environment}}}%
9485     \endlist}
9486 \renewcommand*\thesection{\thechapter\@SepMark\@arabic\c@section}
9487 \renewcommand*\thesubsection{\thesection\@SepMark\@arabic\c@subsection}
9488 \renewcommand*\thesubsubsection{\thesubsection\@SepMark\@arabic\c@subsubsection}
9489 \renewcommand*\theparagraph{\thesubsubsection\@SepMark\@arabic\c@paragraph}
9490 \renewcommand*\thesubparagraph{\theparagraph\@SepMark\@arabic\c@subparagraph}
9491 \renewcommand*\theequation{%
9492   \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@equation}
9493 \renewcommand*\thefigure{%
9494   \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@figure}
9495 \renewcommand*\thetable{%
9496   \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@table}
9497 \renewcommand*\maketitle{%
9498   \begin{titlepage}%
9499     \let\footnotesize\small
9500     \let\right@footnoterule\relax
9501     \let\left@footnoterule\relax
9502     \let\textwidth@footnoterule\relax
9503     \let \footnote \thanks
9504     \long\def\@makefnmark##1{\parindent\z@
9505       \def\labelitemi{\textendash}\@revlabeltrue
9506       \leavevmode\@textsuperscript{\@thefnmark}\kern1em\relax ##1}
9507     \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
9508     \if@compatibility\setcounter{page}{0}\fi
9509     \null\vfil
9510     \vskip 60\p@
9511     \begin{center}%
9512       \TitleFont
9513       {\LARGE \def\@penalty{-\@M}
9514         \if@allcaps
9515           \expandafter\uc@nothanks\@title\thanks\relax
9516         \else
9517           \@title
9518         \fi\par}%
9519       \vskip 3em%
9520       {\large
9521         \lineskip .75em \parindent\z@
9522         \begin{tabular}[t]{c}%
9523           \if@allcaps
9524             \expandafter\uc@authornothanks\@author\and\relax
9525           \else
9526             \@author
9527           \fi
9528         \end{tabular}\par}%
9529       \vskip 1.5em%
9530       {\large
9531         \if@allcaps

```



```

9532         \uppercase\expandafter{\@date}%
9533         \else
9534             \@date
9535         \fi\par}%
9536     \end{center}\par
9537     \@thanks
9538     \vfil\null
9539 \end{titlepage}%
9540 \setcounter{footnote}{0}%
9541 \global\let\thanks\relax
9542 \global\let\maketitle\relax
9543 \global\let\@thanks\@empty
9544 \global\let\@author\@empty
9545 \global\let\@title\@empty
9546 \global\let\@date\@empty
9547 \global\let\title\relax
9548 \global\let\author\relax
9549 \global\let\date\relax
9550 \global\let\and\relax
9551 }

```

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

```

9552 \ProvidesFile{bookest-xetex-bidi.def}[2010/07/25 v0.4 bidi adaptations for bookest class for
9553 \def\@makechapterhead#1{%
9554     \vspace*{20\p@}
9555     {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi \normalfont
9556     \ifnum \c@secnumdepth >\m@ne
9557         \if@mainmatter
9558             {\colorA\huge\scshape \@chapapp\space \thechapter}
9559             \par\nobreak
9560             \vskip 10\p@
9561         \fi
9562         \fi
9563         \interlinepenalty\@M
9564     {\colorB\hrule}
9565     \vskip 15\p@
9566     \if@RTL\begin{flushleft}\else\begin{flushright}\fi
9567         {\colorA\Huge \bfseries #1}\par\nobreak
9568     \if@RTL\end{flushleft}\else\end{flushright}\fi
9569     \vskip 5\p@
9570     {\colorB\hrule}
9571     \vskip 30\p@
9572     }}
9573 \def\@makeschapterhead#1{%
9574     \vspace*{20\p@}
9575     {\parindent \z@ \raggedright \normalfont
9576     {\colorB\hrule}
9577     \vskip 15\p@
9578     \begin{center}
9579         {\colorA\Huge \bfseries #1}\par\nobreak
9580     \end{center}
9581     \vskip 5\p@
9582     {\colorB\hrule}

```



```

9583 \vskip 30\p@
9584 }}

```

## 65 File book-xetex-bidi.def

```

9585 \ProvidesFile{book-xetex-bidi.def}[2025/01/03 v1.1 bidi adaptations for standard book class
9586 \renewenvironment{theindex}
9587     {\if@twocolumn
9588         \@restonecolfalse
9589         \else
9590         \@restonecoltrue
9591         \fi
9592         \columnseprule \z@
9593         \columnsep 35\p@
9594         \twocolumn[\@makeschapterhead{\indexname}]%
9595         \@mkboth{\MakeUppercase\indexname}%
9596                 {\MakeUppercase\indexname}%
9597         \thispagestyle{plain}\parindent\z@
9598         \parskip\z@ \@plus .3\p@\relax
9599         \let\item\@idxitem}
9600     {\if@restonecol\onecolumn\else\clearpage\fi}
9601 \IfClassLoadedF{bookest}{%
9602     \if@titlepage
9603     \renewcommand\maketitle{\begin{titlepage}%
9604     \let\footnotesize\small
9605     \let\right@footnoterule\relax
9606     \let\left@footnoterule\relax
9607     \let\textwidth@footnoterule\relax
9608     \let \footnote \thanks
9609     \let \LTRfootnote \LTRthanks
9610     \let \RTLfootnote \RTLthanks
9611     \null\vfil
9612     \vskip 60\p@
9613     \begin{center}%
9614         {\LARGE \@title \par}%
9615         \vskip 3em%
9616         {\large
9617             \lineskip .75em%
9618             \begin{tabular}[t]{c}%
9619                 \@author
9620             \end{tabular}\par}%
9621         \vskip 1.5em%
9622         {\large \@date \par}%           % Set date in \large size.
9623     \end{center}\par
9624     \@thanks
9625     \vfil\null
9626     \end{titlepage}%
9627     \setcounter{footnote}{0}%
9628     \global\let\thanks\relax
9629     \global\let\LTRthanks\relax
9630     \global\let\RTLthanks\relax
9631     \global\let\maketitle\relax
9632     \global\let\@thanks\@empty
9633     \global\let\@author\@empty

```



```

9634 \global\let\@date\@empty
9635 \global\let\@title\@empty
9636 \global\let\title\relax
9637 \global\let\author\relax
9638 \global\let\date\relax
9639 \global\let\and\relax
9640 }
9641 \else
9642 \renewcommand\maketitle{\par
9643 \begin{group}
9644 \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
9645 \def\@makefnmark{\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
9646 \long\def\@makefntext##1{\parindent 1em\noindent
9647 \hb@xt@1.8em{%
9648 \hss\@textsuperscript{\normalfont\@thefnmark}}##1}%
9649 \if@twocolumn
9650 \ifnum \col@number=\@ne
9651 \maketitle
9652 \else
9653 \twocolumn[\maketitle]%
9654 \fi
9655 \else
9656 \newpage
9657 \global\@topnum\z@ % Prevents figures from going at top of page.
9658 \maketitle
9659 \fi
9660 \thispagestyle{plain}\@thanks
9661 \endgroup
9662 \setcounter{footnote}{0}%
9663 \global\let\thanks\relax
9664 \global\let\LTRthanks\relax
9665 \global\let\RTLthanks\relax
9666 \global\let\maketitle\relax
9667 \global\let\@maketitle\relax
9668 \global\let\@thanks\@empty
9669 \global\let\@author\@empty
9670 \global\let\@date\@empty
9671 \global\let\@title\@empty
9672 \global\let\title\relax
9673 \global\let\author\relax
9674 \global\let\date\relax
9675 \global\let\and\relax
9676 }
9677 \def\@maketitle{%
9678 \newpage
9679 \null
9680 \vskip 2em%
9681 \begin{center}%
9682 \let \footnote \thanks
9683 \let \LTRfootnote \LTRthanks
9684 \let \RTLfootnote \RTLthanks
9685 {\LARGE \@title \par}%
9686 \vskip 1.5em%
9687 {\large

```



```

9688     \lineskip .5em%
9689     \begin{tabular}[t]{c}%
9690         \@author
9691     \end{tabular}\par}%
9692     \vskip 1em%
9693     {\large \@date}%
9694 \end{center}%
9695 \par
9696 \vskip 1.5em}
9697 \fi}
9698 \renewcommand*\l@part[2]{%
9699     \ifnum \c@tocdepth >-2\relax
9700         \addpenalty{-\@highpenalty}%
9701         \addvspace{2.25em \@plus\p@}%
9702         \setlength\@tempdima{3em}%
9703         \begingroup
9704             \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
9705             \parfillskip -\@pnumwidth
9706             {\leavevmode
9707                 \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
9708             \nobreak
9709             \global\@nobreaktrue
9710             \everypar{\global\@nobreakfalse\everypar{}}%
9711         \endgroup
9712     \fi}
9713 \renewcommand*\l@chapter[2]{%
9714     \ifnum \c@tocdepth >\m@ne
9715         \addpenalty{-\@highpenalty}%
9716         \vskip 1.0em \@plus\p@
9717         \setlength\@tempdima{1.5em}%
9718         \begingroup
9719             \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
9720             \parfillskip -\@pnumwidth
9721             \leavevmode \bfseries
9722             \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
9723             \hskip -\if@RTL\rightskip\else\leftskip\fi
9724             #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
9725             \penalty\@highpenalty
9726         \endgroup
9727     \fi}
9728 \renewcommand\left@footnoterule{%
9729     \kern-3\p@
9730     \hrule\@width.4\columnwidth
9731     \kern2.6\p@}
9732 \renewcommand\right@footnoterule{%
9733     \kern-3\p@
9734     \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
9735     \kern2.6\p@}
9736 \renewcommand\theequation
9737     {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@equation}
9738 \renewcommand \thefigure
9739     {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@figure}
9740 \renewcommand \thetable
9741     {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@table}

```



```

9742 \renewcommand \thechapter {\@arabic\c@chapter}
9743 \renewcommand \thesection {\thechapter\@SepMark\@arabic\c@section}
9744 \renewcommand \thesubsection {\thesection\@SepMark\@arabic\c@subsection}
9745 \renewcommand \thesubsubsection {\thesubsection \@SepMark\@arabic\c@subsubsection}
9746 \renewcommand \theparagraph {\thesubsubsection\@SepMark\@arabic\c@paragraph}
9747 \renewcommand \thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}
9748 \def\@makechapterhead#1{%
9749 \vspace*{50\p@}%
9750 {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi \normalfont
9751 \ifnum \c@secnumdepth >\m@ne
9752 \if@mainmatter
9753 \huge\bfseries \@chapapp\space \thechapter
9754 \par\nobreak
9755 \vskip 20\p@
9756 \fi
9757 \fi
9758 \interlinepenalty\@M
9759 \Huge \bfseries #1\par\nobreak
9760 \vskip 40\p@
9761 }}
9762 \def\@makeschapterhead#1{%
9763 \vspace*{50\p@}%
9764 {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi
9765 \normalfont
9766 \interlinepenalty\@M
9767 \Huge \bfseries #1\par\nobreak
9768 \vskip 40\p@
9769 }}
9770 \renewcommand\backmatter{%
9771 \if@openright
9772 \cleardoublepage
9773 \else
9774 \clearpage
9775 \fi
9776 \@mainmatterfalse}
9777 \renewenvironment{thebibliography}[1]
9778 {\chapter*{\bibname}%
9779 \@mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}%
9780 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
9781 \bidi@thebibliography@font@hook%
9782 \list{\@biblabel{\@arabic\c@enumiv}}%
9783 {\settowidth\labelwidth{\@biblabel{#1}}%
9784 \leftmargin\labelwidth
9785 \advance\leftmargin\labelsep
9786 \@openbib@code
9787 \usecounter{enumiv}%
9788 \let\p@enumiv\@empty
9789 \renewcommand\theenumiv{\@arabic\c@enumiv}}%
9790 \sloppy
9791 \clubpenalty4000
9792 \@clubpenalty \clubpenalty
9793 \widowpenalty4000%
9794 \sfcode`. \@m}
9795 {\def\@noitemerr

```



```

9796      {\@latex@warning{Empty `thebibliography' environment}}%
9797      \endlist}

```

## 66 File breqn-xetex-bidi.def

```

9798 \ProvidesFile{breqn-xetex-bidi.def}[2016/09/12 v0.2 bidi adaptations for breqn package for X
9799 \def\@dmath[#1]{\if@RTL\@RTLfalse\fi%
9800 \everydisplay\expandafter{\the\everydisplay \display@setup}%
9801 \if@noskipsec \leavevmode \fi
9802 \if@inlabel \leavevmode \global\@inlabelfalse \fi
9803 \if\eq@group\else\eq@prelim\fi
9804 \setkeys{breqn}{#1}%
9805 \the\eqstyle
9806 \eq@setnumber
9807 \begingroup
9808 \eq@setup@a
9809 \eq@startup
9810 }
9811 \def\@dgroup[#1]{\if@RTL\@RTLfalse\fi%
9812 \let\eq@group\@True \global\let\eq@GRP@first@dmath\@True
9813 \global\GRP@queue\@emptytoks \global\setbox\GRP@box\box\voidb@x
9814 \global\let\GRP@label\@empty
9815 \global\grp@wdL\z@\global\grp@wdR\z@\global\grp@wdT\z@
9816 \global\grp@linewidth\z@\global\grp@wdNum\z@
9817 \global\let\grp@eqs@numbered\@False
9818 \global\let\grp@aligned\@True
9819 \global\let\grp@shiftnumber\@False
9820 \eq@prelim
9821 \setkeys{breqn}{#1}%
9822 \if\grp@hasNumber \grp@setnumber \fi
9823 }
9824 \def\@dseries[#1]{\if@RTL\@RTLfalse\fi%
9825 \let\display@setup\dseries@display@setup
9826 % Question: should this be the default for dseries???
9827 \global\eq@wdCond\z@
9828 \@dmath[layout={M},#1]%
9829 \mathsurround\z@\@math \penalty\@Mi
9830 \let\endmath\ends@math
9831 \def\premath{%
9832 \ifdim\lastskip<.3em \unskip
9833 \else\ifnum\lastpenalty<\@M \dquad\fi\fi
9834 }%
9835 \def\postmath{\unpenalty\eq@addpunct \penalty\intermath@penalty \dquad \@ignoretrue}%
9836 \ignorespaces
9837 }
9838 \def\eqnumform#1{\if@nonlatin\beginR\@RTLtrue\fi(#1\@@italiccorr)\if@nonlatin\endR\fi}
9839 \renewenvironment{dsuspend}{%
9840 \global\setbox\EQ@box\vbox\bgroup\if@nonlatin\@RTLtrue\fi \@parboxrestore
9841 \parshape 1 \displayindent \displaywidth\relax
9842 \hsize=\columnwidth \noindent\ignorespaces
9843 }{%
9844 \par\egroup
9845 \global\setbox\GRP@box\vbox{%
9846 \hbox{\copy\EQ@box\vtop{\unvbox\EQ@box}}%

```



```

9847   \unvbox\GRP@box
9848 }%
9849 \global\GRP@queue\@xp{\the\GRP@queue
9850   \@elt{\let\eq@isIntertext\@True}%
9851 }%
9852 }

```

## 67 File cals-xetex-bidi.def

```

9853 \ProvidesFile{cals-xetex-bidi.def}[2016/11/30 v0.4 bidi adaptations for cals package for XeTeX]
9854 \renewcommand\cals@setup@alignment[1]{%
9855 \if c#1\relax \cals@vfillAdd \leftskip \cals@vfillAdd \rightskip \fi
9856 \if l#1\relax \cals@vfillDrop\leftskip \cals@vfillDrop\rightskip \fi
9857 \if r#1\relax \cals@vfillAdd \leftskip \cals@vfillDrop\rightskip \fi
9858 }
9859 \renewcommand\cals@table@alignment{\if@RTLtab r\else l\fi}
9860 \renewenvironment{calstable}[1][\cals@table@alignment]{%
9861 \if@RTLtab\cals@activate@rtl\fi
9862 \let\cals@thead@tokens=\relax
9863 \let\cals@tfoot@tokens=\relax
9864 \let\cals@tbody@tokens=\relax
9865 \cals@tfoot@height=0pt \relax
9866 \let\cals@last@context=n%
9867 \let\cals@current@context=b%
9868 \parindent=0pt \relax%
9869 \cals@setup@alignment{#1}%
9870 \cals@setpadding{Ag}\cals@setcellprevdepth{Al}\cals@set@tohsize%
9871 %% Alignment inside is independent on center/flushright outside
9872 \parfillskip=0pt plus1fil\relax
9873 \let\cals@borderL=\relax
9874 \let\cals@borderR=\relax
9875 \let\cals@borderT=\relax
9876 \let\cals@borderB=\relax
9877 \setbox\cals@backup@row=\box\voidb@x\relax
9878 \cals@AtBeginTable
9879 }{% End of the table
9880 \cals@tfoot@tokens\lastrule\cals@AtEndTable}
9881 \renewcommand\alignL{%
9882 \if@RTLtab
9883   \cals@vfillAdd\cals@paddingL
9884 \else
9885   \cals@vfillDrop\cals@paddingL
9886 \fi
9887 \cals@vfillDrop\cals@paddingR}
9888 \renewcommand\alignR{%
9889 \if@RTLtab
9890   \cals@vfillDrop\cals@paddingL
9891 \else
9892   \cals@vfillAdd\cals@paddingL
9893 \fi
9894 \cals@vfillDrop\cals@paddingR}

```

## 68 File caption-xetex-bidi.def





```

9895 \ProvidesFile{caption-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for caption package f
9896 \let\@makecaption\caption@makecaption

```

## 69 File caption3-xetex-bidi.def

```

9897 \ProvidesFile{caption3-xetex-bidi.def}[2013/04/01 v0.1 bidi adaptations for caption3 package
9898 \renewcommand*\caption@par{%
9899 \parindent\caption@parindent\hangindent\if@RTL-\fi\caption@hangindent}%

```

## 70 File colortbl-xetex-bidi.def

```

9900 \ProvidesFile{colortbl-xetex-bidi.def}[2012/06/10 v0.2 bidi adaptations for colortbl package
9901 \def\CT@setup{%
9902 \@tempdima\col@sep
9903 \@tempdimc\col@sep
9904 \def\CT@color{%
9905 \global\let\CT@do@color\CT@@do@color
9906 \bidicolor}}
9907 \def\@classz{\@classx
9908 \@tempcnta \count@
9909 \prepnext@tok
9910 \expandafter\CT@extract\the\toks\@tempcnta\columncolor!\@nil
9911 \@addtopreamble{\if@RTLtab\beginL\fi%
9912 \setbox\z@\hbox\bgroup\bgroup\if@RTLtab\beginR\fi
9913 \ifcase \@chnum
9914 \hskip\stretch{.5}\kern\z@
9915 \d@llarbegin
9916 \insert@column
9917 \d@llarend\hskip\stretch{.5}\or
9918 \d@llarbegin \insert@column \d@llarend \hfill \or
9919 \hfill\kern\z@ \d@llarbegin \insert@column \d@llarend \or
9920 $\vcenter
9921 \@startpbox{\@nextchar}\insert@column \@endpbox $\or
9922 \vtop \@startpbox{\@nextchar}\insert@column \@endpbox \or
9923 \vbox \@startpbox{\@nextchar}\insert@column \@endpbox
9924 \fi
9925 \if@RTLtab\endR\fi\egroup\egroup
9926 \begingroup
9927 \CT@setup
9928 \CT@column@color
9929 \CT@row@color
9930 \CT@cell@color
9931 \CT@do@color
9932 \endgroup
9933 \@tempdima\ht\z@
9934 \advance\@tempdima\minrowclearance
9935 \vrule\@height\@tempdima\@width\z@
9936 \unhbox\z@\if@RTLtab\endL\fi}%
9937 \prepnext@tok}

```

## 71 File color-xetex-bidi.def

```

9938 \ProvidesFile{color-xetex-bidi.def}[2013/04/08 v0.2 bidi adaptations for color package for X
9939 \long\def\color@b@x#1#2#3{%

```



```

9940 \leavevmode\ifmmode\else\if@RTL\beginL\fi\fi
9941 \setbox\z@\hbox{\kern\fbboxsep\set@color\if@RTL\beginR\fi#3\if@RTL\endR\fi}\kern\fbboxsep}%
9942 \dimen@ht\z@\advance\dimen@\fbboxsep\ht\z@\dimen@
9943 \dimen@dp\z@\advance\dimen@\fbboxsep\dp\z@\dimen@
9944 {#1#2\color@block{\wd\z@}{\ht\z@}{\dp\z@}%
9945 \box\z@}\ifmmode\else\if@RTL\endL\fi\fi}
9946 \def\normalcolor{\let\current@color\default@color\ifhmode\if@RTL\beginL\aftergroup\endR\fi\fi}
9947 \DeclareRobustCommand\color{%
9948 \ifhmode\if@RTL\beginL\aftergroup\endR\fi\fi\ifnextchar[\@undeclaredcolor\@declaredcolor]}
9949 \def\@declaredcolor#1{%
9950 \@ifundefined{\string\color @#1}%
9951 {\c@lor@error{`#1'}}%
9952 {\expandafter\let\expandafter\current@color
9953 \csname\string\color @#1\endcsname
9954 \set@color}%
9955 \ifhmode\if@RTL\beginR\aftergroup\endL\fi\fi\ignorespaces}
9956 \def\@undeclaredcolor[#1]#2{%
9957 \@ifundefined{color@#1}%
9958 {\c@lor@error{model `#1'}}%
9959 {\csname color@#1\endcsname\current@color{#2}%
9960 \set@color}%
9961 \ifhmode\if@RTL\beginR\aftergroup\endL\fi\fi\ignorespaces}
9962 \DeclareRobustCommand\bidicolor{%
9963 \@ifnextchar[\@bidiundeclaredcolor\@bidideclaredcolor]}
9964 \def\@bidiundeclaredcolor[#1]#2{%
9965 \@ifundefined{color@#1}%
9966 {\c@lor@error{model `#1'}}%
9967 {\csname color@#1\endcsname\current@color{#2}%
9968 \set@color}%
9969 \ignorespaces}
9970 \def\@bidideclaredcolor#1{%
9971 \@ifundefined{\string\color @#1}%
9972 {\c@lor@error{`#1'}}%
9973 {\expandafter\let\expandafter\current@color
9974 \csname\string\color @#1\endcsname
9975 \set@color}%
9976 \ignorespaces}
9977 \def\color@box#1#2{\color@b@x\relax{\bidicolor#1{#2}}}
9978 \def\color@fbbox#1#2#3{%
9979 \color@b@x{\fbboxsep\z@\bidicolor#1{#2}\fbbox}{\bidicolor#1{#3}}}
9980 \def\color@setgroup{\begingroup\ifhmode\if@RTL\beginL\aftergroup\endR\fi\fi\set@color\ifhmode

```

## 72 File combine-xetex-bidi.def

```

9981 \ProvidesFile{combine-xetex-bidi.def}[2011/09/23 v0.1 bidi adaptations for combine class for
9982 \renewcommand{\c@ll@chapsecii}[2]{%
9983 \if@RTL\advance\rightskip\@tempdima\else\advance\leftskip\@tempdima\fi
9984 \if@RTL\hskip -\rightskip\else\hskip -\leftskip\fi
9985 #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
9986 }
9987 \renewcommand{\c@ll@chapseci}{%
9988 \setlength\@tempdima{0em}%
9989 \begingroup
9990 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth

```



```

9991 \parfillskip -\@pnumwidth
9992 \leavevmode
9993 }
9994 \renewenvironment{tocindent}[1]{%
9995 \hangindent \if@RTL-\fi#1 \hangafter -100\relax}{%

```

## 73 File crop-xetex-bidi.def

```

9996 \ProvidesFile{crop-xetex-bidi.def}[2025/01/03 v0.3 bidi adaptations for crop package for XeTeX]
9997 \IfClassLoadedT{memoir}{\endinput}
9998 \RequirePackage{graphicx}
9999 \renewcommand*\CROP@ulc{%
10000 \if@RTLmain%
10001 \begin{picture}(0,0)
10002 \unitlength\p@\thinlines
10003 \put(-40,0){\circle{10}}
10004 \put(-30,-5){\line(0,1){10}}
10005 \put(-35,0){\line(1,0){30}}
10006 \put(-10,30){\circle{10}}
10007 \put(-5,30){\line(1,0){10}}
10008 \put(0,35){\line(0,-1){30}}
10009 \end{picture}%
10010 \else%
10011 \begin{picture}(0,0)
10012 \unitlength\p@\thinlines
10013 \put(-30,0){\circle{10}}
10014 \put(-30,-5){\line(0,1){10}}
10015 \put(-35,0){\line(1,0){30}}
10016 \put(0,30){\circle{10}}
10017 \put(-5,30){\line(1,0){10}}
10018 \put(0,35){\line(0,-1){30}}
10019 \end{picture}%
10020 \fi%
10021 }
10022 \renewcommand*\CROP@urc{%
10023 \if@RTLmain%
10024 \begin{picture}(0,0)
10025 \unitlength\p@\thinlines
10026 \put(20,0){\circle{10}}
10027 \put(30,-5){\line(0,1){10}}
10028 \put(35,0){\line(-1,0){30}}
10029 \put(-10,30){\circle{10}}
10030 \put(-5,30){\line(1,0){10}}
10031 \put(0,35){\line(0,-1){30}}
10032 \end{picture}%
10033 \else%
10034 \begin{picture}(0,0)
10035 \unitlength\p@\thinlines
10036 \put(30,0){\circle{10}}
10037 \put(30,-5){\line(0,1){10}}
10038 \put(35,0){\line(-1,0){30}}
10039 \put(0,30){\circle{10}}
10040 \put(-5,30){\line(1,0){10}}
10041 \put(0,35){\line(0,-1){30}}

```



```

10042   \end{picture}%
10043   \fi%
10044 }
10045 \renewcommand*\CROP@llc{%
10046   \if@RTLmain%
10047     \begin{picture}(0,0)
10048       \unitlength\p@\thinlines
10049       \put(-40,0){\circle{10}}
10050       \put(-30,-5){\line(0,1){10}}
10051       \put(-35,0){\line(1,0){30}}
10052       \put(-10,-30){\circle{10}}
10053       \put(-5,-30){\line(1,0){10}}
10054       \put(0,-35){\line(0,1){30}}
10055     \end{picture}%
10056   \else%
10057     \begin{picture}(0,0)
10058       \unitlength\p@\thinlines
10059       \put(-30,0){\circle{10}}
10060       \put(-30,-5){\line(0,1){10}}
10061       \put(-35,0){\line(1,0){30}}
10062       \put(0,-30){\circle{10}}
10063       \put(-5,-30){\line(1,0){10}}
10064       \put(0,-35){\line(0,1){30}}
10065     \end{picture}%
10066   \fi%
10067 }
10068 \renewcommand*\CROP@lrc{%
10069   \if@RTLmain%
10070     \begin{picture}(0,0)
10071       \unitlength\p@\thinlines
10072       \put(20,0){\circle{10}}
10073       \put(30,-5){\line(0,1){10}}
10074       \put(35,0){\line(-1,0){30}}
10075       \put(-10,-30){\circle{10}}
10076       \put(-5,-30){\line(1,0){10}}
10077       \put(0,-35){\line(0,1){30}}
10078     \end{picture}%
10079   \else%
10080     \begin{picture}(0,0)
10081       \unitlength\p@\thinlines
10082       \put(30,0){\circle{10}}
10083       \put(30,-5){\line(0,1){10}}
10084       \put(35,0){\line(-1,0){30}}
10085       \put(0,-30){\circle{10}}
10086       \put(-5,-30){\line(1,0){10}}
10087       \put(0,-35){\line(0,1){30}}
10088     \end{picture}%
10089   \fi%
10090 }
10091 \@ifpackagewith{crop}{cam}{%
10092 \CROP@except{cam}%
10093 }{}

```



## 74 File cutwin-xetex-bidi.def

```
10094 \ProvidesFile{cutwin-xetex-bidi.def}[2011/11/12 v0.1 bidi adaptations for cutwin package for
10095 \renewcommand*{\c@twcompctr}[2]{%
10096   \def\c@twfirst{1}
10097   \loop\advance\c@twinlines\m@ne
10098   \setbox\c@twslicea=\vsplit#1 to\baselineskip
10099   \setbox\c@twsliceb=\vsplit#1 to\baselineskip
10100   \c@twprune{\c@twslicea}{\c@twlftside}%
10101   \c@twprune{\c@twsliceb}{\c@twrtside}%
10102   \ifnum\c@twfirst=\@ne
10103     \setbox#2=\vbox{\unvbox#2\hbox
10104       to\hsize{\if@RTL\box\c@twsliceb\else\box\c@twslicea\fi\pageinwindow\hfil\if@RTL\box\c@tw
10105   \else
10106     \setbox#2=\vbox{\unvbox#2\hbox
10107       to\hsize{\if@RTL\box\c@twsliceb\else\box\c@twslicea\fi\hfil\if@RTL\box\c@twslicea\else\B
10108   \fi
10109   \def\c@twfirst{2}
10110   \ifnum\c@twinlines>\z@\repeat}
10111 \renewcommand*{\c@twcompoddctr}[2]{%
10112   \def\c@twrounds{1}
10113   \def\c@twfirst{1}
10114   \@for\c@twlspec:=\c@twb\do{%
10115     \ifnum\c@twrounds=1
10116       \setbox\c@twslicea=\vsplit#1 to\baselineskip % first of pair
10117       \c@twprune{\c@twslicea}{\c@twlspec}%
10118       \def\c@twrounds{2}
10119     \else
10120       \setbox\c@twsliceb=\vsplit#1 to\baselineskip % second of pair
10121       \c@twprune{\c@twsliceb}{\c@twlspec}%
10122       \ifnum\c@twfirst=1
10123         \setbox#2=\vbox{\unvbox#2\hbox
10124           to\hsize{\if@RTL\box\c@twsliceb\else\box\c@twslicea\fi\hfil\picinwindow\hfil\if@RTL
10125         \def\c@twfirst{2}
10126       \else
10127         \setbox#2=\vbox{\unvbox#2\hbox
10128           to\hsize{\if@RTL\box\c@twsliceb\else\box\c@twslicea\fi\hfil\if@RTL\box\c@twslicea\el
10129       \fi
10130       \def\c@twrounds{1}
10131     \fi}}
```

## 75 File cuted-xetex-bidi.def

```
10132 \ProvidesFile{cuted-xetex-bidi.def}[2022/02/18 v0.7 bidi adaptations for cuted package for X
10133
10134 \def\RTL@outputdblcol{%
10135   \if@firstcolumn
10136     \global\@firstcolumnfalse
10137     \global\setbox\@leftcolumn\copy\@outputbox
10138     \splitmaxdepth\maxdimen
10139     \vbadness\maxdimen
10140     \setbox\@outputbox\vbox{\unvbox\@outputbox\unskip}%
10141     \setbox\@outputbox\vsplit\@outputbox to\maxdimen
10142     \toks@\expandafter{\topmark}%
```



```

10143 \xdef\@firstcoltopmark{\the\toks@}%
10144 \toks@\expandafter{\splitfirstmark}%
10145 \xdef\@firstcolfirstmark{\the\toks@}%
10146 \ifx\@firstcolfirstmark\@empty
10147   \global\let\@setmarks\relax
10148 \else
10149   \gdef\@setmarks{%
10150     \let\firstmark\@firstcolfirstmark
10151     \let\topmark\@firstcoltopmark}%
10152 \fi
10153 \else
10154   \global\@firstcolumntrue
10155   \setbox\@outputbox\vbox{%
10156     \hb@xt@\textwidth{%
10157       \hskip \columnwidth
10158       \hfil
10159       {\normalcolor\vrule \@width\columnseprule}%
10160       \hfil
10161       \hb@xt@\columnwidth{%
10162         \bidi@firstcolumn@status@write%
10163         \box\@leftcolumn \hss}%
10164         \hskip -\textwidth
10165         \hb@xt@\columnwidth{%
10166           \bidi@lastcolumn@status@write%
10167           \box\@outputbox \hss}%
10168           \hskip \columnsep
10169           \hskip \columnwidth }}%
10170 \ifvoid\hold@viper
10171 \else
10172   \setbox\@outputbox \vbox to\textheight{%
10173     \box\hold@viper
10174     \box\@outputbox
10175     \vss
10176     }%
10177 \fi
10178 \@combinedblfloats
10179 \setmarks
10180 \setoutputpage
10181 \begingroup
10182 \setdblfloatplacement
10183 \setstartdblcolumn
10184 \setwhilesw\if@fcolmade \fi{\setoutputpage
10185 \setstartdblcolumn}%
10186 \ifvoid\@viper
10187 \else
10188   \global\setbox\@viper\vbox{%
10189     \vskip-\stripsep
10190     \unvbox\@viper
10191     }%
10192 \setviperoutput
10193 \fi
10194 \endgroup
10195 \fi}%
10196

```



```

10197 \def\LTR@outputdblcol{%
10198   \if@firstcolumn
10199     \global\@firstcolumnfalse
10200     \global\setbox\@leftcolumn\copy\@outputbox
10201     \splitmaxdepth\maxdimen
10202     \vbadness\maxdimen
10203     \setbox\@outputbox\vbox{\unvbox\@outputbox\unskip}%
10204     \setbox\@outputbox\vsplit\@outputbox to\maxdimen
10205     \toks@\expandafter{\topmark}%
10206     \xdef\@firstcoltopmark{\the\toks@}%
10207     \toks@\expandafter{\splitfirstmark}%
10208     \xdef\@firstcolfirstmark{\the\toks@}%
10209     \ifx\@firstcolfirstmark\@empty
10210       \global\let\@setmarks\relax
10211     \else
10212       \gdef\@setmarks{%
10213         \let\firstmark\@firstcolfirstmark
10214         \let\topmark\@firstcoltopmark}%
10215     \fi
10216   \else
10217     \global\@firstcolumntrue
10218     \setbox\@outputbox\vbox{%
10219       \hb@xt@\textwidth{%
10220         \hb@xt@\columnwidth{%
10221           \bidi@firstcolumn@status@write%
10222           \box\@leftcolumn \hss}%
10223         \hfil
10224         {\normalcolor\vrule \@width\columnseprule}%
10225         \hfil
10226         \hb@xt@\columnwidth{%
10227           \bidi@lastcolumn@status@write%
10228           \box\@outputbox \hss}}}%
10229     \ifvoid\hold@viper
10230     \else
10231       \setbox\@outputbox \vbox to\textheight{%
10232         \box\hold@viper
10233         \box\@outputbox
10234         \vss
10235       }%
10236     \fi
10237   \@combinedblfloats
10238   \@setmarks
10239   \@outputpage
10240   \begingroup
10241     \@dblfloatplacement
10242     \@startdblcolumn
10243     \@whilesw\if@fcolmade \fi{\@outputpage
10244     \@startdblcolumn}%
10245     \ifvoid\@viper
10246     \else
10247       \global\setbox\@viper\vbox{%
10248         \vskip-\stripsep
10249         \unvbox\@viper
10250       }%

```



```

10251         \@viperoutput
10252         \fi
10253     \endgroup
10254 \fi}%
10255
10256 \def\@addviper{%
10257     \@insertfalse
10258     \def\var@@thecol@num{2}%
10259     \if@firstcolumn
10260         \def\var@@thecol@num{1}%
10261         \@reqcolroom=.5\@pageht
10262         \ht@viper=\@reqcolroom
10263         \advance\@reqcolroom by\ht\@viper
10264         \advance\@reqcolroom by\stripsep
10265     \else
10266         \@reqcolroom=\@colht
10267         \advance\@reqcolroom by\@pageht
10268         \ht@viper.5\@reqcolroom
10269         \@reqcolroom=\ht@viper
10270         \advance\@reqcolroom by\ht\@viper
10271         \advance\@reqcolroom by\stripsep
10272         \global\setbox\@holdpg\vbox{%
10273             \setbox\cuted@@tempbox@a\vbox{%
10274                 \aftergroup\unvbox
10275                 \unvcopy\@leftcolumn
10276                 \unskip\unkern\unpenalty
10277                 \setbox\@tempboxa\lastbox
10278                 \ifdim\dimexpr\ht\@tempboxa+\wd\@tempboxa+\dp\@tempboxa>\z@
10279                     %% keeps lastbox
10280                 \aftergroup\@leftcolumn
10281             \else
10282                 %% removes lastbox
10283                 \aftergroup\cuted@@tempbox@a
10284             \fi
10285             }%
10286             \unskip\unkern\unpenalty
10287             \on@stripcols@break
10288             \the\At@ViperColsBreak
10289             \unvbox\@holdpg
10290             }%
10291         \global\At@ViperColsBreak{}%
10292         \ht@viper=.5\ht\@holdpg
10293         \ifdim\ht@viper>\@colht
10294             \ht@viper=\@colht
10295         \fi
10296     \fi
10297     %%
10298     %% calculations for breaking
10299     %%
10300     \ifvoid\hold@viper
10301         \ht@hold@viper=\z@
10302     \else
10303         \ht@hold@viper=\ht\hold@viper
10304     \fi

```





```

10305 \cuted@@tempdim@b\ht@viper
10306 \set@split@topskip@to\topskip
10307 \loop
10308   \xdef\saved@tempdimb{\the\cuted@@tempdim@b}%
10309   \setbox\cuted@@varbox@a\copy\@holdpg
10310   \setbox\cuted@@tempbox@a\vsplit\cuted@@varbox@a to\cuted@@tempdim@b
10311   %% set leftcolumn boxes
10312   \setbox\cuted@@tempbox@c\vbox{\unvbox\cuted@@tempbox@a}%
10313   \setbox\cuted@@tempbox@a\vbox to\cuted@@tempdim@b{\unvcopy\cuted@@tempbox@c}%
10314   \xdef\var@@leftcolumn@badness{\the\badness}%
10315   %% set rightcolumn boxes
10316   \setbox\cuted@@varbox@c\vbox{\unvbox\cuted@@varbox@a}%
10317   \setbox\cuted@@varbox@a\vbox to\cuted@@tempdim@b{\unvcopy\cuted@@varbox@c}%
10318   \xdef\var@@rightcolumn@badness{\the\badness}%
10319   %% analyzing split goodness
10320   \cuted@@tempdim@spread=\ht\cuted@@tempbox@c
10321   \advance\cuted@@tempdim@spread by\dp\cuted@@tempbox@c
10322   \advance\cuted@@tempdim@spread by-\ht\cuted@@varbox@c
10323   \advance\cuted@@tempdim@spread by-\dp\cuted@@varbox@c
10324   \cuted@@wlog@debug{CUTED [-----]}%
10325   ^^JLeft: \the\ht\cuted@@tempbox@c
10326   +\the\dp\cuted@@tempbox@c\space/\var@@leftcolumn@badness
10327   ^^JRight: \the\ht\cuted@@varbox@c
10328   +\the\dp\cuted@@varbox@c\space/\var@@rightcolumn@badness
10329   ^^JSplit: \the\cuted@@tempdim@b
10330   ^^JExtra height: \the\cuted@@tempdim@spread
10331   }%
10332   \ifnum\var@@leftcolumn@badness<\cuted@@column@badness
10333     \ifnum\var@@rightcolumn@badness<\cuted@@column@badness
10334       \cuted@@tempdim@spread=\z@
10335     \fi
10336   \fi
10337   \ifdim\cuted@@tempdim@spread<\z@
10338     \if@left@column@spread
10339       \if@right@column@shrink
10340         \ifdim\dimexpr\cuted@@tempdim@spread+\pageshrink>\z@
10341           \cuted@@tempdim@a=\dimexpr\ht\cuted@@tempbox@c-0.5\cuted@@tempdim@spread
10342         \else
10343           \cuted@@tempdim@a=-\dimexpr\cuted@@tempdim@spread+.5\pageshrink\relax
10344         \fi
10345         \setbox\cuted@@varbox@a\vbox to\cuted@@tempdim@a{\unvcopy\cuted@@tempbox@c}
10346         \ifnum\badness<\cuted@@column@badness
10347           \cuted@@tempdim@b=\cuted@@tempdim@a
10348           \cuted@@tempdim@spread=\z@
10349         \fi
10350         \cuted@@wlog@debug{CUTED [leftcolumn badness]: \number\badness\space on
10351         \setbox\cuted@@varbox@a\vbox to\cuted@@tempdim@a{\unvcopy\cuted@@varbox@c}
10352         \cuted@@wlog@debug{CUTED [rightcolumn badness]: \number\badness\space on
10353       \else
10354         \setbox\cuted@@varbox@a\vbox to\ht\cuted@@varbox@c{
10355         \unvcopy\cuted@@tempbox@c
10356         }%
10357       \ifnum\badness<\cuted@@column@badness
10358         \@tempdimb=\ht\cuted@@varbox@c

```



```

10359             \cuted@@tempdim@spread=\z@
10360         \fi
10361         \cuted@@wlog@debug{CUTED [leftcolumn badness]: \number\badness on \the\h
10362         \setbox\cuted@@varbox@a\vbox to\ht\cuted@@varbox@c{%
10363             \unvcopy\cuted@@varbox@c
10364             }%
10365         \cuted@@wlog@debug{CUTED [rightcolumn badness]: \number\badness on \the\
10366     \fi
10367     \else
10368         \if@right@column@shrink
10369             \ifdim\dimexpr\cuted@@tempdim@spread+\pageshrink<\z@
10370             \else
10371                 \cuted@@tempdim@b=\ht\cuted@@tempbox@c
10372                 \cuted@@tempdim@spread=\z@
10373             \fi
10374         \fi
10375     \fi
10376     \else
10377         \ifdim\cuted@@tempdim@spread>\z@
10378             \ifdim\dimexpr\@tempdimb+p@\relax>\@colht
10379                 \cuted@@tempdim@b=\@colht
10380                 \cuted@@tempdim@spread=\z@
10381             \fi
10382         \fi
10383     \fi
10384     \ifdim\cuted@@tempdim@spread<\z@
10385         \advance\cuted@@tempdim@b 1\p@
10386     \repeat
10387     \wlog{CUTED [- LAST -]%
10388         ^^JExtra skip:\the\cuted@@tempdim@spread
10389         ^^JLeft:\the\ht\cuted@@tempbox@c/\the\dp\cuted@@tempbox@c
10390         ^^JRight:\the\ht\cuted@@varbox@c/\the\dp\cuted@@varbox@c
10391         ^^JSplit: \saved@tempdimb
10392         ^^JOutput:\the\cuted@@tempdim@b
10393         ^^JPageshrink: \the\pageshrink
10394         ^^JPagestretch: \the\pagestretch
10395         ^^J@colht:\the\@colht
10396     }%
10397     %%
10398     %% final construction of the cuted page above strip
10399     %%
10400     \setbox\cuted@@tempbox@c\vsplit\@holdpg to\saved@tempdimb
10401     \setbox\cuted@@tempbox@a\vbox to\cuted@@tempdim@b{%
10402         \cuted@@tempdim@a=\dimexpr
10403             \cuted@@tempdim@b-\ht\cuted@@tempbox@c
10404             \relax
10405         \cuted@@tempdim@spread=\dp\cuted@@tempbox@c
10406         \unvbox\cuted@@tempbox@c
10407         \ifdim\cuted@@tempdim@spread>\dp\strutbox
10408         \else
10409             \vskip-\cuted@@tempdim@spread
10410         \fi
10411         \prevdepth\z@
10412         \hrule\@height\cuted@@page@rule width\textwidth

```



```

10413     \vskip-\cuted@@page@rule
10414     \ifdim\cuted@@tempdim@a>\z@
10415         \if@left@column@spread
10416         \else
10417             \vss
10418         \fi
10419     \else
10420         \ifdim\cuted@@tempdim@a<\z@
10421             \if@left@column@shrink
10422             \else
10423                 \vss
10424             \fi
10425         \fi
10426     \fi
10427 }%
10428 \wlog{CUTED [output]: \the\cuted@@tempdim@b
10429     ^^JCUTED [leftcolumn badness]: \number\badness
10430 }%
10431 \setbox\cuted@@varbox@a\vbox to\cuted@@tempdim@b{%
10432     \cuted@@tempdim@a=\dimexpr
10433     \cuted@@tempdim@b-\ht\@holdpg
10434     \relax
10435     \unvbox\@holdpg
10436     \ifdim\cuted@@tempdim@a>\z@
10437         \if@right@column@spread
10438         \else
10439             \vss
10440         \fi
10441     \else
10442         \ifdim\cuted@@tempdim@a<\z@
10443             \if@right@column@shrink
10444             \else
10445                 \vss
10446             \fi
10447         \fi
10448     \fi
10449 }%
10450 \wlog{CUTED [rightcolumn badness]: \number\badness}%
10451 \setbox\cuted@@tempbox@var\vbox{%
10452     \hb@xt@\textwidth{%
10453         \if@RTLmain
10454             \hskip \columnwidth
10455             \hfil
10456             {\normalcolor\vrule \@width\columnseprule}%
10457             \hfil
10458             \hb@xt@\columnwidth{%
10459                 \vbox to\ht@viper{\box\cuted@@tempbox@a\vss}}%
10460             \hss
10461         }%
10462         \hskip -\textwidth
10463         \hb@xt@\columnwidth{%
10464             \vbox to\ht@viper{\box\cuted@@varbox@a\vss}}%
10465         \hss
10466     }%

```



```

10467         \hskip \columnsep
10468         \hskip \columnwidth
10469     \else
10470         \hb@xt@\columnwidth{%
10471             \vbox to\ht@viper{\box\cuted@@tempbox@a\vss}%
10472             \hss
10473         }%
10474         \hfil
10475         {\normalcolor\vrule \@width\columnseprule}%
10476         \hfil
10477         \hb@xt@\columnwidth{%
10478             \vbox to\ht@viper{\box\cuted@@varbox@a\vss}%
10479             \hss
10480         }%
10481     \fi
10482 }%
10483 }%
10484 %%
10485 %% finalize cuted page
10486 %%
10487 \ifvoid\hold@viper
10488     \global\setbox\hold@viper\vbox{%
10489         \unvbox\cuted@@tempbox@var
10490         \penalty\interlinepenalty
10491         \vskip\stripsep
10492         \the\preCutedStrip
10493         \ifnum\outputpenalty<-\@Mii
10494             \vskip -\parskip
10495         \fi
10496         \outputpenalty\z@
10497     }%
10498 \else
10499     \global\setbox\hold@viper\vbox{%
10500         \unvbox\hold@viper
10501         \cuted@@tempbox@var
10502         \penalty\interlinepenalty
10503         \vskip\stripsep
10504         \the\preCutedStrip
10505         \ifnum\outputpenalty<-\@Mii
10506             \vskip -\parskip
10507         \fi
10508         \outputpenalty\z@
10509     }%
10510 \fi
10511 \ifdim\@colht>\@reqcolroom
10512     \global\setbox\hold@viper\vbox{%
10513         \unvbox\hold@viper
10514         \box@viper
10515         \penalty\interlinepenalty
10516         \the\postCutedStrip
10517         \vskip\stripsep
10518         \ifnum\outputpenalty<-\@Mii
10519             \vskip -\parskip
10520         \fi

```



```

10521         \outputpenalty\z@
10522         }%
10523     \@inserttrue
10524     \global\@firstcolumntrue
10525     \advance\ht@hold@viper by-\ht\hold@viper
10526     \global\advance\@colht by\ht@hold@viper
10527     \ifdim\@colht<2.5\baselineskip
10528         \@latex@warning@no@line {Optional argument of \noexpand\twocolumn
10529                                     too tall on page \thepage (\var@@thecol@num column)}%
10530         \@emptycol
10531         \if@firstcolumn
10532         \else
10533             \@emptycol
10534         \fi
10535         \global\@lastvipertrue
10536     \else
10537         \global\vsizel\@colht
10538         \global\@colroom\@colht
10539         \check@floats\cuted@@tempdim@a
10540         \ifdim\cuted@@tempdim@a>\z@
10541             \global\advance\@colroom by-\cuted@@tempdim@a
10542         \fi
10543         \ifdim\@colroom<\z@
10544             \global\@colroom1\p@
10545             \ifdim\cuted@@tempdim@a>\@colht
10546                 \@latex@warning@no@line{TOP and/or BOT FLOAT's
10547                                         to large on \thepage (\var@@thecol@num column)}%
10548             \fi
10549             \@emptycol
10550             \if@firstcolumn
10551             \else
10552                 \@emptycol
10553             \fi
10554             \global\@lastvipertrue
10555         \fi
10556     \fi
10557 \fi
10558 \if@insert
10559 \else
10560     \advance\ht@hold@viper by-\ht\hold@viper
10561     \global\advance\@colht by\ht@hold@viper
10562     \global\setbox\hold@viper\ vbox{%
10563         \unvbox\hold@viper
10564         \set@split@topskip@to{\z@ plus2\p@}%
10565         \vsplit\@viper to\@colht
10566         \vss
10567     }%
10568     \vbox{}%
10569     \global\@firstcolumnfalse
10570     \newpage
10571 \fi
10572 }

```



## 76 File cvthemebidicasual.sty

```
10573 \NeedsTeXFormat{LaTeX2e}
10574 \ProvidesPackage{cvthemebidicasual}
10575 \DeclareOption{blue}{}
10576 \newif\if@colourorange\@colourorangefalse
10577 \DeclareOption{orange}{\@colourorange>true}
10578 \newif\if@colourgreen\@colourgreenfalse
10579 \DeclareOption{green}{\@colourgreentruer}
10580 \newif\if@coloured\@colouredfalse
10581 \DeclareOption{red}{\@colouredtrue}
10582 \newif\if@colourgrey\@colourgreyfalse
10583 \DeclareOption{grey}{\@colourgreytrue}
10584 \DeclareOption*{
10585   \PackageWarning{cvthemebidicasual}{Unknown option ‘\CurrentOption’}}
10586 \ExecuteOptions{colour}
10587 \ProcessOptions\relax
10588 \renewcommand*{\listitemsymbol}{\textbullet}
10589 \definecolor{firstnamecolor}{rgb}{0.65,0.65,0.65}
10590 \familynamecolour{808080}
10591 \firstnamecolour{A9A9A9}
10592 \quotecolour{696969}
10593 \addresscolour{696969}
10594 \definecolor{sectionrectanglecolor}{rgb}{0.25,0.50,0.75}
10595 \sectiontitlecolour{1E90FF}
10596 \subsectioncolour{4682B4}
10597 \definecolor{rulecolour}{gray}{0.6}
10598 \definecolor{footersymbolcolour}{rgb}{0.25,0.50,0.75}
10599 \definecolor{footersymbolcolor}{rgb}{0.25,0.50,0.75}
10600 \if@colourorange
10601   \definecolor{sectionrectanglecolor}{rgb}{1.00,0.65,0.20}
10602   \definecolor{sectionrectanglecolor}{rgb}{1.00,0.65,0.20}
10603   \sectiontitlecolour{FF8C00}
10604   \subsectioncolour{FF8C00}
10605   \definecolor{footersymbolcolour}{rgb}{0.95,0.55,0.15}
10606   \definecolor{footersymbolcolor}{rgb}{0.95,0.55,0.15}\fi
10607 \if@colourgreen
10608   \definecolor{sectionrectanglecolor}{rgb}{0.55,0.85,0.35}
10609   \definecolor{sectionrectanglecolour}{rgb}{0.55,0.85,0.35}
10610   \sectiontitlecolour{008000}
10611   \subsectioncolour{008000}
10612   \definecolor{footersymbolcolour}{rgb}{0.30,0.65,0.15}
10613   \definecolor{footersymbolcolor}{rgb}{0.30,0.65,0.15}\fi
10614 \if@coloured
10615   \definecolor{sectionrectanglecolor}{rgb}{1.00,0.30,0.30}
10616   \definecolor{sectionrectanglecolour}{rgb}{1.00,0.30,0.30}
10617   \sectiontitlecolour{FF0000}
10618   \subsectioncolour{FF0000}
10619   \definecolor{footersymbolcolour}{rgb}{0.95,0.20,0.20}
10620   \definecolor{footersymbolcolor}{rgb}{0.95,0.20,0.20}\fi
10621 \if@colourgrey
10622   \definecolor{sectionrectanglecolor}{rgb}{0.75,0.75,0.75}
10623   \definecolor{sectionrectanglecolour}{rgb}{0.75,0.75,0.75}
10624   \sectiontitlecolour{808080}
```



```

10625 \subsectioncolour{808080}
10626 \definecolor{footersymbolcolour}{rgb}{0.35,0.35,0.35}
10627 \definecolor{footersymbolcolor}{rgb}{0.35,0.35,0.35}\fi
10628 \renewcommand*\ttdefault{pcr}
10629 \renewcommand*\firstnamefont{\fontsize{38}{40}\mdseries\upshape}
10630 \renewcommand*\familynamefont{\firstnamefont}
10631 \renewcommand*\addressfont{\normalsize\mdseries\slshape}
10632 \renewcommand*\quoteont{\large\slshape}
10633 \renewcommand*\sectionfont{\Large\mdseries\upshape}
10634 \renewcommand*\subsectionfont{\large\mdseries\upshape}
10635 \renewcommand*\maketitle{%
10636   {%
10637     \ifthenelse{\isundefined{\@photo}}%
10638       {}%
10639       {\color{firstnamecolor}\framebox{\includegraphics[width=\@photowidth]{\@photo}}}%
10640     \hfill%
10641     \bidi@raggedleft{\firstnamestyle{\@firstname}~\familynamestyle{\@familyname}}\[-.35em]}%
10642     {\color{firstnamecolor}\rule{\textwidth}{.25ex}\[2.5em]}%
10643     \ifthenelse{\isundefined{\@quote}}%
10644       {}%
10645       {\centering{\begin{minipage}{\quotewidth}\centering\quotestyle{\@quote}\end{minipage}}\}
10646   }%
10647 \newif\if@firstfooterelement\@firstfooterelementtrue
10648 \providecommand*\footersymbol{}
10649 \renewcommand*\footersymbol{%
10650   \if@firstfooterelement%
10651     \else%
10652     { ~\color{footersymbolcolor}\textbullet~~}\fi}
10653 \providecommand*\makefooter{}
10654 \renewcommand*\makefooter{%
10655   \fancypagestyle{plain}{%
10656     \fancyfoot[c]{%
10657       \parbox{0.8\textwidth}{%
10658         \centering%
10659         \addressfont\@addresscolour%
10660         \ifthenelse{\isundefined{\@address}}{}{}%
10661         \addresssymbol~\@address\%
10662         \@firstfooterelementfalse}%
10663         \ifthenelse{\isundefined{\@mobile}}{}{\mobilesymbol~\@mobile\@firstfooterelementfalse}%
10664         \ifthenelse{\isundefined{\@phone}}{}{\footersymbol\phonesymbol~\@phone\@firstfooterelementfalse}%
10665         \ifthenelse{\isundefined{\@fax}}{}{\footersymbol\xaxsymbol~\@fax\@firstfooterelementfalse}%
10666         \ifthenelse{\isundefined{\@email}}{}{\footersymbol\emailsymbol~\emailink{\@email}\@firstfooterelementfalse}%
10667         \ifthenelse{\isundefined{\@extrainfo}}{}{\footersymbol\@extrainfo\@firstfooterelementfalse}%
10668       }%
10669     \pagestyle{plain}}
10670 \AtBeginDocument{\makefooter}

```

## 77 File cvthemebidiclassic.sty

```

10671 \NeedsTeXFormat{LaTeX2e}
10672 \ProvidesPackage{cvthemebidiclassic}
10673 \DeclareOption{blue}{}
10674 \newif\if@colourorange\@colourorangefalse
10675 \DeclareOption{orange}{\@colourorange>true}

```



```

10676 \newif\if@colourgreen\@colourgreenfalse
10677 \DeclareOption{green}{\@colourgreentruer}
10678 \newif\if@coloured\@colouredfalse
10679 \DeclareOption{red}{\@colouredtruer}
10680 \newif\if@colourgrey\@colourgreyfalse
10681 \DeclareOption{grey}{\@colourgreytruer}
10682 \DeclareOption*{
10683   \PackageWarning{cvthemebidiclassic}{Unknown option ‘\CurrentOption’}}
10684 \ExecuteOptions{colour}
10685 \ProcessOptions\relax
10686 \renewcommand*{\listitemsymbol}{\textbullet}
10687 \firstnamecolour{}
10688 \familynamecolour{}
10689 \titlecolour{808080}
10690 \quotecolour{696969}
10691 \addresscolour{696969}
10692 \definecolor{sectionrectanglecolour}{rgb}{0.25,0.50,0.75}
10693 \definecolor{sectionrectanglecolor}{rgb}{0.25,0.5,0.75}
10694 \sectiontitlecolour{1E90FF}
10695 \subsectioncolour{4682B4}
10696 \if@colourorange
10697   \addresscolour{FF8C00}
10698   \definecolor{sectionrectanglecolour}{rgb}{1.00,0.65,0.20}
10699   \definecolor{sectionrectanglecolor}{rgb}{1,0.65,0.20}
10700   \sectiontitlecolour{FF8C00}
10701   \subsectioncolour{FF8C00}\fi
10702 \if@colourgreen
10703   \addresscolour{008000}
10704   \definecolor{sectionrectanglecolour}{rgb}{0.55,0.85,0.35}
10705   \definecolor{sectionrectanglecolor}{rgb}{0.55,0.85,0.35}
10706   \sectiontitlecolour{008000}
10707   \subsectioncolour{008000}\fi
10708 \if@coloured
10709   \addresscolour{FF0000}
10710   \definecolor{sectionrectanglecolour}{rgb}{1.00,0.30,0.30}
10711   \definecolor{sectionrectanglecolor}{rgb}{1.00,0.30,0.30}
10712   \sectiontitlecolour{FF0000}
10713   \subsectioncolour{FF0000}\fi
10714 \if@colourgrey
10715   \addresscolour{808080}
10716   \definecolor{sectionrectanglecolour}{rgb}{0.75,0.75,0.75}
10717   \definecolor{sectionrectanglecolor}{rgb}{0.75,0.75,0.75}
10718   \sectiontitlecolour{808080}
10719   \subsectioncolour{808080}\fi
10720 \renewcommand*{\ttdefault}{pcr}
10721 \renewcommand*{\firstnamefont}{\fontsize{34}{36}\mdseries\upshape}
10722 \renewcommand*{\titlefont}{\LARGE\mdseries\slshape}
10723 \renewcommand*{\addressfont}{\normalsize\mdseries\slshape}
10724 \renewcommand*{\familynamefont}{\firstnamefont}
10725 \renewcommand*{\quotefont}{\large\slshape}
10726 \renewcommand*{\sectionfont}{\Large\mdseries\upshape}
10727 \renewcommand*{\subsectionfont}{\large\mdseries\upshape}
10728 \newlength{\maketitlenamemaxwidth}
10729 \setlength{\maketitlenamemaxwidth}{.525\textwidth}

```





```

10730 \newlength{\maketitlefullnamewidth}
10731 \settowidth{\maketitlefullnamewidth}{\firstnamestyle{\@firstname~}\familynamestyle{\@familyname}}
10732 \newlength{\maketitlewidth}
10733 \ifnum\maketitlemaxwidth<\maketitlefullnamewidth\setlength{\maketitlewidth}{\maketitlefullnamewidth}
10734 \newlength{\maketitlepicturewidth}
10735 \setlength{\maketitlepicturewidth}{\@photowidth}
10736 \newlength{\maketitledetailwidth}
10737 \renewcommand*{\recomputethemelengths}{%
10738   \setlength{\maketitledetailwidth}{\textwidth}%
10739   \addtolength{\maketitledetailwidth}{-\maketitlewidth}%
10740   \addtolength{\maketitledetailwidth}{-\separatorcolumnwidth}%
10741   \addtolength{\maketitledetailwidth}{-\maketitlepicturewidth}}
10742 \recomputethemelengths
10743 \newif\if@firstdetailselement\@firstdetailselementtrue
10744 \newcommand*{\maketitledetailsnewline}{
10745   \if@firstdetailselement%
10746     \@firstdetailselementfalse%
10747   \else%
10748     \[.2em]\fi}
10749 \renewcommand*{\maketitle}{%
10750   % name and title
10751   \begin{minipage}[b]{\maketitlewidth}%
10752     \firstnamestyle{\@firstname~}\familynamestyle{\@familyname}%
10753     \ifthenelse{\equal{\@title}{}}{\[1.25em]\titlestyle{\@title}}{}%
10754   \end{minipage}%
10755   % optional data
10756   \begin{minipage}[b]{\maketitledetailwidth}%
10757     \bidi@raggedleft\addressfont\addresscolour%
10758     \ifthenelse{\isundefined{\@address}}{\[1.25em]}{}%
10759     \maketitledetailsnewline%
10760     \addresssymbol~\@address}%
10761     \ifthenelse{\isundefined{\@mobile}}{\[1.25em]\mobilesymbol~\@mobile}%{}%
10762     \ifthenelse{\isundefined{\@phone}}{\[1.25em]\phonesymbol~\@phone}%{}%
10763     \ifthenelse{\isundefined{\@fax}}{\[1.25em]\faxsymbol~\@fax}%{}%
10764     \ifthenelse{\isundefined{\@email}}{\[1.25em]\emailsymbol~\emaiillink{\@email}}{}%
10765     \ifthenelse{\isundefined{\@extrainfo}}{\[1.25em]\extrainfo}%{}%
10766   \end{minipage}%
10767   % optional photo
10768   \ifthenelse{\isundefined{\@photo}}{\[1.25em]}{}%
10769   {\hspace*{\separatorcolumnwidth}\color{firstnamecolor}\framebox{\includegraphics[width=\@photowidth]{\@photo}}}%
10770   % optional quote
10771   \ifthenelse{\isundefined{\@quote}}{\[1.25em]}{}%
10772   {\centering{\begin{minipage}{\quotewidth}\centering\quotestyle{\@quote}\end{minipage}}\@quote}%
10773   }
10774 }
10775 }

```

## 78 File dblfnote-xetex-bidi.def

```

10776 \ProvidesFile{dblfnote-xetex-bidi.def}[2012/12/12 v0.3 bidi adaptations for dblfnote package]
10777 \let\autofooterule\relax
10778 \let\rightfooterule\relax
10779 \let\leftfooterule\relax
10780 \let\textwidthfooterule\relax

```



```

10781 \let\LRfootnoterule\relax
10782 \def\footnoterule{\kern-3\p@
10783   \hrule \@width \DFNcolumnwidth \kern 2.6\p@}%
10784 \AtBeginDocument{\let\dfn@latex@footnotetext\@footnotetext
10785 \let\@footnotetext\dfn@footnotetext}
10786 \long\def\dfn@LTRfootnotetext#1{{\setbox\dfn@boxa\vbox{
10787   \let\insert\dfn@gobble
10788   \columnwidth\DFNcolumnwidth \hbadness\c@DFNsloppiness
10789   \def\@makefnmark{\smash{\dfn@makefnmark}}
10790   \dfn@latex@LTRfootnotetext{#1}\par \boxmaxdepth\dfn@fnmaxdp}%
10791   \dfn@dima\ht\dfn@boxa \advance\dfn@dima\dp\dfn@boxa
10792   \ifdim\dfn@dima>\z@\else
10793     \dfn@dima1sp\relax
10794     \setbox\dfn@boxa\vbox{\vbox to1sp{\unvbox\dfn@boxa\vfil}}\fi
10795   \global\setbox\dfn@ins\vbox{\boxmaxdepth\dfn@fnmaxdp
10796     \ifvoid\dfn@ins\else
10797       \unvbox\dfn@ins \allowbreak \nointerlineskip \fi
10798     \ifdfn@allowcbreak \unvbox \else \box \fi \dfn@boxa}%
10799   \setbox\dfn@boxa\copy\dfn@ins
10800   \dfn@split{.5\ht\dfn@boxa}\dfn@boxa\dfn@boxb\dfn@fnmaxdp\footnotesep
10801   \advance\@tempdima\@tempdimb \@tempdimb\@tempdima
10802   \advance\@tempdima-\dfn@fnht \global\dfn@fnht\@tempdimb
10803   \insert\footins{\floatingpenalty\@MM \vbox to\@tempdima{}}%
10804   \xdef\dfn@list{\dfn@list\@elt{\number\dfn@dima}{\number\@tempdima}}}}
10805 \AtBeginDocument{\let\dfn@latex@LTRfootnotetext\@LTRfootnotetext
10806 \let\@LTRfootnotetext\dfn@LTRfootnotetext}
10807 \long\def\dfn@RTLfootnotetext#1{{\setbox\dfn@boxa\vbox{
10808   \let\insert\dfn@gobble
10809   \columnwidth\DFNcolumnwidth \hbadness\c@DFNsloppiness
10810   \def\@makefnmark{\smash{\dfn@makefnmark}}
10811   \dfn@latex@RTLfootnotetext{#1}\par \boxmaxdepth\dfn@fnmaxdp}%
10812   \dfn@dima\ht\dfn@boxa \advance\dfn@dima\dp\dfn@boxa
10813   \ifdim\dfn@dima>\z@\else
10814     \dfn@dima1sp\relax
10815     \setbox\dfn@boxa\vbox{\vbox to1sp{\unvbox\dfn@boxa\vfil}}\fi
10816   \global\setbox\dfn@ins\vbox{\boxmaxdepth\dfn@fnmaxdp
10817     \ifvoid\dfn@ins\else
10818       \unvbox\dfn@ins \allowbreak \nointerlineskip \fi
10819     \ifdfn@allowcbreak \unvbox \else \box \fi \dfn@boxa}%
10820   \setbox\dfn@boxa\copy\dfn@ins
10821   \dfn@split{.5\ht\dfn@boxa}\dfn@boxa\dfn@boxb\dfn@fnmaxdp\footnotesep
10822   \advance\@tempdima\@tempdimb \@tempdimb\@tempdima
10823   \advance\@tempdima-\dfn@fnht \global\dfn@fnht\@tempdimb
10824   \insert\footins{\floatingpenalty\@MM \vbox to\@tempdima{}}%
10825   \xdef\dfn@list{\dfn@list\@elt{\number\dfn@dima}{\number\@tempdima}}}}
10826 \AtBeginDocument{\let\dfn@latex@RTLfootnotetext\@RTLfootnotetext
10827 \let\@RTLfootnotetext\dfn@RTLfootnotetext}
10828 \def\dfn@RTLmakecol{{\ifvoid\footins\else
10829   \dfn@dima\ht\footins
10830   \@tempcnta\z@ \dfn@countins
10831   \@tempdima\z@ \let\@elt\dfn@elt@getht
10832   \dfn@list\@nil
10833   \ifdim\@tempdima=\z@\else
10834   \dfn@split\@tempdima\dfn@ins\dfn@boxa\z@\z@

```



```

10835 \global\setbox\dfn@ins\box\dfn@ins
10836 \@tempswtrue
10837 \ifdfn@trysingle
10838 \setbox\dfn@boxb\ vbox{\unvcopy\@cclv}\@tempdima\@colroom
10839 \advance\@tempdima-\ht\dfn@boxb \advance\@tempdima-\dp\dfn@boxb
10840 \advance\@tempdima-\skip\footins
10841 \advance\@tempdima-\ht\dfn@boxa
10842 \ifdim\@tempdima<\z@\else \@tempswafalse
10843 \global\setbox\footins\ vbox{\boxmaxdepth\dfn@fnmaxdp
10844 \footnoterule \unvbox\dfn@boxa}\fi\fi
10845 \if@tempswa
10846 \dfn@split{\dfn@dim}\dfn@boxa\dfn@boxb\dfn@fnmaxdp\footnotesep
10847 \global\setbox\footins\ vbox{\hbox{%
10848 \hskip \DFNcolumnwidth
10849 \hskip\DFNcolumnsep
10850 \hbox to\DFNcolumnwidth{\vbox to\@tempdima{\footnoterule
10851 \unvbox\dfn@boxb\vss}\hss}
10852 \hskip -\textwidth
10853 \hbox to\DFNcolumnwidth{\ifvoid\dfn@boxa\else
10854 \vbox to\@tempdima{
10855 \setbox\@tempboxa\ vbox{\footnoterule}
10856 \ifdfn@ruleboth \unvbox\@tempboxa
10857 \else \@tempdima\ht\@tempboxa
10858 \advance\@tempdima\dp\@tempboxa
10859 \vskip\@tempdima
10860 \prevdepth\dp\@tempboxa \fi
10861 \unvbox\dfn@boxa\vss}\fi\hss}
10862 \hskip \DFNcolumnsep
10863 \hskip \DFNcolumnwidth}}\fi\fi
10864 \global\dfn@fnht\z@
10865 \ifx\dfn@list\@empty\else
10866 \let\@elt\dfn@elt\adjust \dfn@dim\z@ \dfn@dim\z@
10867 \dfn@list \global\advance\dfn@fnht\dfn@dim
10868 \let\@elt\relax
10869 \ifdim\dfn@dim>\z@
10870 \xdef\dfn@list{\@elt{0}{\number\dfn@dim}\dfn@list}%
10871 \insert\footins{\floatingpenalty\@MM
10872 \vbox to\dfn@dim{}}\fi
10873 \ifdim\dfn@fnht>\@tempdima
10874 \@tempdimb\@tempdima \advance\@tempdimb-\dfn@fnht
10875 \global\dfn@fnht\@tempdima
10876 \xdef\dfn@list{\dfn@list\@elt{0}{\number\@tempdimb}}%
10877 \xdef\dfn@afteroutput{\insert\footins{
10878 \floatingpenalty\@MM
10879 \vbox to\number\@tempdimb sp{}}%
10880 \global\let\noexpand\dfn@afteroutput\relax}%
10881 \fi\fi
10882 \fi}%
10883 \let\footnoterule\relax \dfn@latex@makecol
10884 \let\footnoterule\dfn@footnoterule}
10885 \def\dfn@LTRmakecol{\ifvoid\footins\else
10886 \dfn@dim\ht\footins
10887 \@tempcnta\z@ \dfn@countins
10888 \@tempdima\z@ \let\@elt\dfn@elt@getht

```



```

10889 \dfn@list\@nil
10890 \ifdim\@tempdima=\z@\else
10891 \dfn@split\@tempdima\dfn@ins\dfn@boxa\z@\z@
10892 \global\setbox\dfn@ins\box\dfn@ins
10893 \@tempswatruel
10894 \ifdfn@trysingle
10895 \setbox\dfn@boxb\vbox{\unvcopy\@cclv}\@tempdima\@colroom
10896 \advance\@tempdima-\ht\dfn@boxb \advance\@tempdima-\dp\dfn@boxb
10897 \advance\@tempdima-\skip\footins
10898 \advance\@tempdima-\ht\dfn@boxa
10899 \ifdim\@tempdima<\z@\else \@tempswafalse
10900 \global\setbox\footins\vbox{\boxmaxdepth\dfn@fnmaxdp
10901 \footnoterule \unvbox\dfn@boxa}\fi\fi
10902 \if@tempswa
10903 \dfn@split{\dfn@dima}\dfn@boxa\dfn@boxb\dfn@fnmaxdp\footnotesep
10904 \global\setbox\footins\vbox{\hbox{%
10905 \hbox to\DFNcolumnwidth{\vbox to\@tempdima{\footnoterule
10906 \unvbox\dfn@boxb\vss}\hss}\hskip\DFNcolumnsep
10907 \hbox to\DFNcolumnwidth{\ifvoid\dfn@boxa\else
10908 \vbox to\@tempdima{
10909 \setbox\@tempboxa\vbox{\footnoterule}
10910 \ifdfn@ruleboth \unvbox\@tempboxa
10911 \else \@tempdima\ht\@tempboxa
10912 \advance\@tempdima\dp\@tempboxa
10913 \vskip\@tempdima
10914 \prevdepth\dp\@tempboxa \fi
10915 \unvbox\dfn@boxa\vss}\fi\hss}}}\fi\fi
10916 \global\dfn@fnht\z@
10917 \ifx\dfn@list\@empty\else
10918 \let\@elt\dfn@elt@adjust \dfn@dima\z@ \dfn@dimb\z@
10919 \dfn@list \global\advance\dfn@fnht\dfn@dimb
10920 \let\@elt\relax
10921 \ifdim\dfn@dimb>\z@
10922 \xdef\dfn@list{\@elt{0}{\number\dfn@dimb}\dfn@list}%
10923 \insert\footins{\floatingpenalty\@MM
10924 \vbox to\dfn@dimb{}}\fi
10925 \ifdim\dfn@fnht>\@tempdima
10926 \@tempdimb\@tempdima \advance\@tempdimb-\dfn@fnht
10927 \global\dfn@fnht\@tempdima
10928 \xdef\dfn@list{\dfn@list\@elt{0}{\number\@tempdimb}}%
10929 \xdef\dfn@afteroutput{\insert\footins{
10930 \floatingpenalty\@MM
10931 \vbox to\number\@tempdimb sp{}}}%
10932 \global\let\noexpand\dfn@afteroutput\relax}%
10933 \fi\fi
10934 \fi}%
10935 \let\footnoterule\relax \dfn@latex@makecol
10936 \let\footnoterule\dfn@footnoterule}
10937 \renewcommand{\dfn@makecol}{\if@RTLmain\dfn@RTLmakecol\else\dfn@LTRmakecol\fi}
10938 \newcommand{\RTLdfnmakecol}{\renewcommand{\dfn@makecol}{\dfn@RTLmakecol}}
10939 \newcommand{\LTRdfnmakecol}{\renewcommand{\dfn@makecol}{\dfn@LTRmakecol}}
10940 \DFNalwaysdouble

```



## 79 File diagbox-xetex-bidi.def

```
10941 \ProvidesFile{diagbox-xetex-bidi.def}[2017/12/30 v0.2 bidi adaptations for diagbox package f
10942 \bidi@patchcmd{\diagbox@double}{%
10943   \begin{tabular}{@{\hspace{\diagbox@insepl}}>\diagbox@font}l@{}
10944 }{\bidi@@diagbox@double@ii}{-}{-}
10945 \bidi@patchcmd{\diagbox@double}{%
10946   \begin{tabular}{@{}>\diagbox@font}r@{\hspace{\diagbox@insepr}}
10947 }{\bidi@@diagbox@double@iii}{-}{-}
10948 \newcommand*\bidi@@diagbox@double@ii}{%
10949   \ifRTL
10950     \begin{tabular}{@{}>\diagbox@font}r@{\hspace{\diagbox@insepl}}
10951   \else
10952     \begin{tabular}{@{\hspace{\diagbox@insepl}}>\diagbox@font}l@{}
10953   \fi
10954 }
10955 \newcommand*\bidi@@diagbox@double@iii}{%
10956   \ifRTL
10957     \begin{tabular}{@{\hspace{\diagbox@insepr}}>\diagbox@font}l@{}
10958   \else
10959     \begin{tabular}{@{}>\diagbox@font}r@{\hspace{\diagbox@insepr}}
10960   \fi
10961 }
10962 \bidi@patchcmd{\diagbox@triple@setbox@NW}{%
10963   \begin{tabular}{@{\hspace{\diagbox@insepl}}>\diagbox@font}l@{}
10964 }{\bidi@@diagbox@triple@setbox@NW@tabular@i@ii}{-}{-}
10965 \bidi@patchcmd{\diagbox@triple@setbox@NW}{%
10966   \begin{tabular}{@{\hspace{\diagbox@insepl}}>\diagbox@font}l@{}
10967 }{\bidi@@diagbox@triple@setbox@NW@tabular@i@ii}{-}{-}
10968 \bidi@patchcmd{\diagbox@triple@setbox@NW}{%
10969   \begin{tabular}{@{}>\diagbox@font}r@{\hspace{\diagbox@insepr}}
10970 }{\bidi@@diagbox@triple@setbox@NW@tabular@iii}{-}{-}
10971 \newcommand*\bidi@@diagbox@triple@setbox@NW@tabular@i@ii}{%
10972   \ifRTL
10973     \begin{tabular}{@{}>\diagbox@font}r@{\hspace{\diagbox@insepl}}
10974   \else
10975     \begin{tabular}{@{\hspace{\diagbox@insepl}}>\diagbox@font}l@{}
10976   \fi}
10977 \newcommand*\bidi@@diagbox@triple@setbox@NW@tabular@iii}{%
10978   \ifRTL
10979     \begin{tabular}{@{\hspace{\diagbox@insepr}}>\diagbox@font}l@{}
10980   \else
10981     \begin{tabular}{@{}>\diagbox@font}r@{\hspace{\diagbox@insepr}}
10982   \fi}
10983 \let\diagbox@triple@setbox@SW\diagbox@triple@setbox@NW
10984 \bidi@patchcmd{\diagbox@triple@setbox@SE}{%
10985   \begin{tabular}{@{\hspace{\diagbox@insepl}}l@{}%
10986 }{\bidi@@diagbox@triple@setbox@SE@tabular@i}{-}{-}
10987 \bidi@patchcmd{\diagbox@triple@setbox@SE}{%
10988   \begin{tabular}{@{}r@{\hspace{\diagbox@insepr}}}%
10989 }{\bidi@@diagbox@triple@setbox@SE@tabular@ii@iii}{-}{-}
10990 \bidi@patchcmd{\diagbox@triple@setbox@SE}{%
10991   \begin{tabular}{@{}r@{\hspace{\diagbox@insepr}}}%
10992 }{\bidi@@diagbox@triple@setbox@SE@tabular@ii@iii}{-}{-}
```



```

10993 \newcommand*{\bidi@diagbox@triple@setbox@SE@tabular@i}{%
10994   \if@RTL
10995     \begin{tabular}{@{}r@{\hspace{\diagbox@insepl}}}}
10996   \else
10997     \begin{tabular}{@{\hspace{\diagbox@insepl}}l@{}}
10998   \fi
10999 }
11000 \newcommand*{\bidi@diagbox@triple@setbox@SE@tabular@ii@iii}{%
11001   \if@RTL
11002     \begin{tabular}{@{\hspace{\diagbox@insepr}}l@{}}
11003   \else
11004     \begin{tabular}{@{}r@{\hspace{\diagbox@insepr}}}}
11005   \fi
11006 }
11007 \let\diagbox@triple@setbox@NE\diagbox@triple@setbox@SE
11008 \bidi@patchcmd{\diagbox@double@pict@SE}{%
11009   \diagbox@setlinecolor
11010   \Line(0,\strip@pt\diagbox@ht)(\strip@pt\diagbox@wd,0)%
11011 }{%
11012   {\diagbox@setlinecolor
11013   \Line(0,\strip@pt\diagbox@ht)(\strip@pt\diagbox@wd,0)}%
11014 }{}
11015 \let\diagbox@double@pict@NW\diagbox@double@pict@SE
11016 \bidi@patchcmd{\diagbox@double@pict@NE}{%
11017   \diagbox@setlinecolor
11018   \Line(0,0)(\strip@pt\diagbox@wd,\strip@pt\diagbox@ht)%
11019 }{%
11020   {\diagbox@setlinecolor
11021   \Line(0,0)(\strip@pt\diagbox@wd,\strip@pt\diagbox@ht)}%
11022 }{}
11023 \let\diagbox@double@pict@SW\diagbox@double@pict@NE
11024 \bidi@patchcmd{\diagbox@triple@pict@NW}{%
11025   \diagbox@setlinecolor
11026   \Line(0,\yym)(\x,0)
11027   \Line(\xm,\y)(\x,0)%
11028 }{%
11029   {\diagbox@setlinecolor
11030   \Line(0,\yym)(\x,0)
11031   \Line(\xm,\y)(\x,0)}%
11032 }{}
11033 \bidi@patchcmd{\diagbox@triple@pict@NE}{%
11034   \diagbox@setlinecolor
11035   \Line(0,0)(\xxm,\y)
11036   \Line(0,0)(\x,\yym)%
11037 }{%
11038   {\diagbox@setlinecolor
11039   \Line(0,0)(\xxm,\y)
11040   \Line(0,0)(\x,\yym)}%
11041 }{}
11042 \bidi@patchcmd{\diagbox@triple@pict@SW}{%
11043   \diagbox@setlinecolor
11044   \Line(0,\ym)(\x,\y)
11045   \Line(\xm,0)(\x,\y)%
11046 }{%

```



```

11047 {\diagbox@setlinecolor
11048 \Line(0,\ym)(\x,\y)
11049 \Line(\xm,0)(\x,\y)}%
11050 }{}{}
11051 \bidi@patchcmd{\diagbox@triple@pict@SE}{%
11052 \diagbox@setlinecolor
11053 \Line(0,\y)(\xxm,0)
11054 \Line(0,\y)(\x,\ym)}%
11055 }{}%
11056 {\diagbox@setlinecolor
11057 \Line(0,\y)(\xxm,0)
11058 \Line(0,\y)(\x,\ym)}%
11059 }{}{}

```

## 80 File draftwatermark-xetex-bidi.def

```

11060 \ProvidesFile{draftwatermark-xetex-bidi.def}[2010/07/25 v0.2 bidi adaptations for draftwater
11061 \renewcommand\SetWatermarkText[1]{%
11062 \def\sc@wm@text{\if@RTLmain\beginR\fi#1\if@RTLmain\endR\fi}}

```

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

```

11063 \ProvidesFile{eso-pic-xetex-bidi.def}[2022/02/18 v0.4 bidi adaptations for eso-pic package f
11064 \renewcommand\AtPageLowerLeft[1]{\AtPageUpperLeft{%
11065 \put(\if@RTLmain\paperwidth\else 0\fi,-\paperheight){#1}}
11066
11067 \ESO@isMEMOIR{%
11068 \renewcommand\AtTextUpperLeft[1]{%
11069 \begingroup
11070 \ifodd\c@page
11071 \if@RTLmain
11072 \ESO@tempdima=\paperwidth
11073 \advance\ESO@tempdima-\textwidth
11074 \advance\ESO@tempdima-\spinemargin
11075 \else
11076 \ESO@tempdima=\spinemargin
11077 \fi
11078 \else
11079 \if@RTLmain
11080 \ESO@tempdima=\spinemargin
11081 \else
11082 \ESO@tempdima=\paperwidth
11083 \advance\ESO@tempdima-\textwidth
11084 \advance\ESO@tempdima-\spinemargin
11085 \fi
11086 \fi
11087 \ESO@tempdimb=-\uppermargin
11088 \AtPageUpperLeft{%
11089 \put(\if@RTLmain-\textwidth-\fi\ESO@tempdima,\ESO@tempdimb){#1}%
11090 }%
11091 \endgroup
11092 }
11093 }{}%
11094 \renewcommand\AtTextUpperLeft[1]{%

```



```

11095 \begingroup
11096 \ESO@tempdima=1in\relax
11097 \if@twoside
11098 \ifodd\c@page
11099 \if@RTLmain
11100 \advance\ESO@tempdima\evensidemargin
11101 \else
11102 \advance\ESO@tempdima\oddsidemargin
11103 \fi
11104 \else
11105 \if@RTLmain
11106 \advance\ESO@tempdima\oddsidemargin
11107 \else
11108 \advance\ESO@tempdima\evensidemargin
11109 \fi
11110 \fi
11111 \else
11112 \advance\ESO@tempdima\oddsidemargin
11113 \fi
11114 \ESO@tempdimb=-1in\relax
11115 \advance\ESO@tempdimb-\topmargin
11116 \advance\ESO@tempdimb-\headheight
11117 \advance\ESO@tempdimb-\headsep
11118 \AtPageUpperLeft{%
11119 \put(\if@RTLmain-\textwidth-\fi\ESO@tempdima,\ESO@tempdimb){#1}%
11120 }%
11121 \endgroup
11122 }
11123 }

```

## 82 File empheq-xetex-bidi.def

```

11124 \ProvidesFile{empheq-xetex-bidi.def}[2018/01/08 v0.2 bidi adaptations for empheq package for
11125 \MHInternalSyntaxOn
11126 \def\EQ_tag_plus_endmark:{%
11127 \iftagsleft@
11128 \gdef\maketag@@@##1{%
11129 \hfuzz\displaywidth
11130 \if@RTL\makebox[\widthof{##1}][r]{%
11131 \hbox to \displaywidth{\m@th\normalfont##1\hss
11132 \raisebox{-\dp\EQ_mathdisplay_box
11133 -\depthof{\EQ_outerbox:}}{
11134 {\PotEndMark{\hss}}}}
11135 \else\makebox[\widthof{##1}][l]{%
11136 \hbox to \displaywidth{\m@th\normalfont##1\hss
11137 \raisebox{-\dp\EQ_mathdisplay_box
11138 -\depthof{\EQ_outerbox:}}{
11139 {\PotEndMark{\hss}}}}\fi}%
11140 \MH_else:
11141 \gdef\maketag@@@##1{%
11142 \hbox{\m@th\normalfont##1\llap{\hss\PotEndMark{%
11143 \settoheight{\@tempdima}{\@nameuse{\InTheoType Symbol}}}%
11144 \MH_addtolength:dn \@tempdima
11145 {\g_EQ_bottomtag_depth_dim+\mintagvsep}

```





```

11146     \setlength{\@tempdimb}
11147     {\g_EQ_bottomrow_depth_dim+\depthof{\EQ_outerbox:}}
11148     +\depthof{\EQ_innerbox:}}
11149     \MH_if_dim:w \@tempdima>\@tempdimb
11150     \MH_setlength:dn \@tempdima{-\dp\EQ_mathdisplay_box
11151     -\@tempdima+\g_EQ_bottomrow_depth_dim}
11152     \addtolength{\@tempdima}{\depthof{\EQ_innerbox:}}
11153     \def\EQ_next:{\raisebox{\@tempdima}}%
11154     \MH_else:
11155     \def\EQ_next:{
11156     \raisebox{-\dp\EQ_mathdisplay_box
11157     -\depthof{\EQ_outerbox:}}}%
11158     \MH_fi:\EQ_next:}}}%
11159 \MH_fi:}
11160 \def\EQ_post_process:{%
11161 \EQ_initialize:
11162 \EQ_begin_equation:
11163 \MH_if_boolean:nT {outer_mult}{
11164 \setkeys{MT_options_name:}{
11165 firstline-afterskip=Opt,
11166 lastline-preskip=Opt,
11167 multlined-width=Opt,
11168 }
11169 \ifodd \l_EQ_alignmentmode_int
11170 \setkeys{MT_options_name:}{multlined-pos=b}
11171 \MH_else:
11172 \setkeys{MT_options_name:}{multlined-pos=t}
11173 \MH_fi:
11174 \g@addto@macro\EQ_complete_mathdisplay:{
11175 \begin{MTmultlined}\relax}
11176 }
11177 \g@addto@macro\EQ_complete_mathdisplay:\EQ_mathbody:
11178 \MH_if_boolean:nT {outer_mult}{
11179 \g@addto@macro\EQ_complete_mathdisplay:{\end{MTmultlined}}
11180 }
11181 \EQ_end_equation:
11182 \edef\EQ_hyperref_link_fint{\number\Hy@linkcounter}
11183 \savecounters@
11184 \EQ_typeset_tags:
11185 \edef\l_EQ_equation_fint{\number\c@equation}
11186 \restorecounters@
11187 \Hy@linkcounter=\EQ_hyperref_link_fint
11188 \settowidth\l_EQ_totalwidth_dim{%
11189 $\EQ_left_side:\EQ_innerbox:}\EQ_right_side:$}%
11190 \MH_if_boolean:nTF {outer_mult}
11191 { \def\EQ_next:{_mult} }
11192 { \def\EQ_next:{} }
11193 \@nameuse{EQ_modify_linewidth_
11194 \romannumeral\l_EQ_equationtype_int\EQ_next: :}%
11195 \EQ_typeset_display:
11196 \@nameuse{EQ_find_displaywidth_
11197 \romannumeral\l_EQ_equationtype_int\EQ_next: :}
11198 \MH_addtolength:dn
11199 \l_EQ_totalwidth_dim{\l_EQ_displaywidth_dim}

```



```

11200 \savebox\EQ_mathdisplay_box[\l_EQ_totalwidth_dim][c]{%
11201   $\EQ_left_side:
11202   \EQ_innerbox:{%
11203     \MH_if_case:w \l_EQ_alignmentmode_int\MH_or:
11204     \makebox[\l_EQ_displaywidth_dim][c]
11205       {\usebox{\EQ_mathdisplay_box}}%
11206     \MH_or:
11207     \makebox[\l_EQ_displaywidth_dim][c]
11208       {\usebox{\EQ_mathdisplay_box}}%
11209     \MH_or:
11210     \if@RTL\makebox[\l_EQ_displaywidth_dim][r]{%
11211       \MH_if_num:w \l_EQ_equationtype_int=5 \MH_else:
11212       \MH_if_num:w \l_EQ_equationtype_int=6 \MH_else:
11213         \kern-\@mathmargin
11214         \MH_fi:
11215       \MH_fi:
11216       \usebox{\EQ_mathdisplay_box}}%
11217     \else\makebox[\l_EQ_displaywidth_dim][l]{%
11218       \MH_if_num:w \l_EQ_equationtype_int=5 \MH_else:
11219       \MH_if_num:w \l_EQ_equationtype_int=6 \MH_else:
11220         \kern-\@mathmargin
11221         \MH_fi:
11222       \MH_fi:
11223       \usebox{\EQ_mathdisplay_box}}\fi%
11224     \MH_or:
11225     \if@RTL\makebox[\l_EQ_displaywidth_dim][r]{%
11226       \MH_if_num:w \l_EQ_equationtype_int=5 \MH_else:
11227       \MH_if_num:w \l_EQ_equationtype_int=6 \MH_else:
11228         \kern-\@mathmargin
11229         \MH_fi:
11230       \MH_fi:
11231       \usebox{\EQ_mathdisplay_box}}
11232     \else\makebox[\l_EQ_displaywidth_dim][l]{%
11233       \MH_if_num:w \l_EQ_equationtype_int=5 \MH_else:
11234       \MH_if_num:w \l_EQ_equationtype_int=6 \MH_else:
11235         \kern-\@mathmargin
11236         \MH_fi:
11237       \MH_fi:
11238       \usebox{\EQ_mathdisplay_box}}\fi%
11239     \MH_fi:}%
11240   \EQ_right_side:$}%
11241 \begin{AmSequation*}
11242 \@nameuse{EQ_place_display_
11243   \romannumeral\l_EQ_equationtype_int\EQ_next: :}
11244 \MH_if_dim:w \g_EQ_widesttag_dim>\z@
11245 \MH_set_boolean_T:n {show_manual_tags}
11246 \MH_if_case:w \l_EQ_alignmentmode_int
11247 \MH_or: \if@RTL\EQ_place_tag:N l\else\EQ_place_tag:N r\fi %#1
11248 \MH_or: \if@RTL\EQ_place_tag:N r\else\EQ_place_tag:N l\fi %#2
11249 \MH_or: \if@RTL\EQ_place_tag:N l\else\EQ_place_tag:N r\fi %#3
11250 \MH_or: \if@RTL\EQ_place_tag:N r\else\EQ_place_tag:N l\fi %#4
11251 \MH_fi:
11252 \MH_fi:
11253 \end{AmSequation*}

```



```

11254 \global\c@equation=\l_EQ_equation_fint\relax
11255 }
11256 \AtBeginDocument{%
11257   \@ifpackageloaded{fancybox}{%
11258     \@ifpackageloaded{color}{\definecolor{shadowcolor}{rgb}{0,0,0}}%
11259     {\renewcommand*\textcolor[2]{\normalcolor{#2}}}%
11260     \renewcommand*\shadowbox{%
11261       \@ifstar{\MH_set_boolean_T:n {shadowbox_star}
11262         \VerbBox\EQ_shadowbox:n}
11263       {\MH_set_boolean_F:n {shadowbox_star}
11264         \VerbBox\EQ_shadowbox:n}}
11265     \def\EQ_shadowbox:n #1{%
11266       \sbox{\z@}{\fbox{#1}}%
11267       \MH_if_boolean:nTF {shadowbox_star}{
11268         \MH_setlength:dn \@tempdima{\z@}%
11269       }{
11270         \MH_setlength:dn \@tempdima{\dp\z@+\shadowsize}%
11271       }
11272       \raisebox{\@tempdima}{%
11273         \if@RTL\makebox[\z@][r]{%
11274           \kern\shadowsize \textcolor{shadowcolor}{%
11275             \rule[-\dp\z@-\shadowsize]{\wd\z@}{\shadowsize}}%
11276         }%
11277         \else\makebox[\z@][l]{%
11278           \kern\shadowsize \textcolor{shadowcolor}{%
11279             \rule[-\dp\z@-\shadowsize]{\wd\z@}{\shadowsize}}%
11280         }\fi%
11281         \usebox\z@\textcolor{shadowcolor}{%
11282           \rule[-\dp\z@-\shadowsize]{\shadowsize}{\ht\z@+\dp\z@}}}%
11283       }{}%
11284     }
11285 \MHInternalSyntaxOff

```

## 83 File extarticle-xetex-bidi.def

```

11286 \ProvidesFile{extarticle-xetex-bidi.def}[2017/06/09 v0.4 bidi adaptations for extarticle cla
11287 \renewcommand*\l@section[2]{%
11288   \ifnum \c@tocdepth >\z@
11289     \addpenalty\@secpenalty
11290     \addvspace{1.0em \@plus\p@}%
11291     \setlength\@tempdima{1.5em}%
11292     \begingroup
11293       \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
11294       \parfillskip -\@pnumwidth
11295       \leavevmode \bfseries
11296       \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
11297       \hskip -\if@RTL\rightskip\else\leftskip\fi
11298       #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
11299     \endgroup
11300   \fi}
11301 \renewcommand*\l@part[2]{%
11302   \ifnum \c@tocdepth >-2\relax
11303     \addpenalty\@secpenalty
11304     \addvspace{2.25em \@plus\p@}%

```



```

11305 \begingroup
11306 \setlength\@tempdima{3em}%
11307 \parindent \z@ \ifRTL\leftskip\else\rightskip\fi \@pnumwidth
11308 \parfillskip -\@pnumwidth
11309 {\leavevmode
11310 \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
11311 \nobreak
11312 \endgroup
11313 \fi}
11314 \def\@part[#1]#2{%
11315 \ifnum \c@secnumdepth >\m@ne
11316 \refstepcounter{part}%
11317 \addcontentsline{toc}{part}{\thepart\hspace{1em}#1}%
11318 \else
11319 \addcontentsline{toc}{part}{#1}%
11320 \fi
11321 {\parindent \z@ \ifRTL\raggedleft\else\raggedright\fi
11322 \interlinepenalty \M
11323 \normalfont
11324 \ifnum \c@secnumdepth >\m@ne
11325 \Large\bfseries \partname-\thepart
11326 \par\nobreak
11327 \fi
11328 \huge \bfseries #2%
11329 \markboth{}{\par}%
11330 \nobreak
11331 \vskip 3ex
11332 \@afterheading}
11333 \def\@spart#1{%
11334 {\parindent \z@ \ifRTL\raggedleft\else\raggedright\fi
11335 \interlinepenalty \M
11336 \normalfont
11337 \huge \bfseries #1\par}%
11338 \nobreak
11339 \vskip 3ex
11340 \@afterheading}
11341 \renewenvironment{thebibliography}[1]
11342 {\section*{\refname
11343 \@mkboth{\MakeUppercase\refname}{\MakeUppercase\refname}}%
11344 \ifRTL\ifLTRbibitems\@RTLfalse\else\fi\else\ifRTLbibitems\@RTLtrue\else\fi\fi
11345 \bidi@thebibliography@font@hook%
11346 \list{\@biblabel{\@arabic\c@enumiv}}%
11347 {\settowidth\labelwidth{\@biblabel{#1}}%
11348 \leftmargin\labelwidth
11349 \advance\leftmargin\labelsep
11350 \@openbib@code
11351 \usecounter{enumiv}%
11352 \let\p@enumiv\@empty
11353 \renewcommand\theenumiv{\@arabic\c@enumiv}}%
11354 \sloppy\clubpenalty4000\widowpenalty4000%
11355 \sfcode\.\@m}
11356 {\def\@noitemerr
11357 {\@latex@warning{Empty `thebibliography' environment}}%
11358 \endlist}

```



```

11359 \renewcommand\left@footnoterule{%
11360   \kern-3\p@
11361   \hrule\@width.4\columnwidth
11362   \kern2.6\p@}
11363 \renewcommand\right@footnoterule{%
11364   \kern-3\p@
11365   \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
11366   \kern2.6\p@}
11367   \if@titlepage
11368   \renewcommand\maketitle{\begin{titlepage}%
11369     \let\footnotesize\small
11370     \let\right@footnoterule\relax
11371     \let\left@footnoterule\relax
11372     \let\textwidth@footnoterule\relax
11373     \let \footnote \thanks
11374     \null\vfil
11375     \vskip 60\p@
11376     \begin{center}%
11377       {\LARGE \@title \par}%
11378       \vskip 3em%
11379       {\large
11380         \lineskip .75em%
11381         \begin{tabular}[t]{c}%
11382           \@author
11383           \end{tabular}\par}%
11384         \vskip 1.5em%
11385         {\large \@date \par}%           % Set date in \large size.
11386     \end{center}\par
11387     \@thanks
11388     \vfil\null
11389     \end{titlepage}%
11390     \setcounter{footnote}{0}%
11391     \global\let\thanks\relax
11392     \global\let\maketitle\relax
11393     \global\let\@thanks\@empty
11394     \global\let\@author\@empty
11395     \global\let\@date\@empty
11396     \global\let\@title\@empty
11397     \global\let\title\relax
11398     \global\let\author\relax
11399     \global\let\date\relax
11400     \global\let\and\relax
11401   }
11402 \else
11403 \renewcommand\maketitle{\par
11404   \begingroup
11405     \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
11406     \def\@makefnmark{\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
11407     \long\def\@makefntext##1{\parindent 1em\noindent
11408       \hb@xt@1.8em{%
11409         \hss\@textsuperscript{\normalfont\@thefnmark}}##1}%
11410     \if@twocolumn
11411       \ifnum \col@number=\@ne
11412         \@maketitle

```



```

11413     \else
11414         \twocolumn[\@maketitle]%
11415     \fi
11416     \else
11417         \newpage
11418         \global\@topnum\z@ % Prevents figures from going at top of page.
11419         \@maketitle
11420     \fi
11421     \thispagestyle{plain}\@thanks
11422 \endgroup
11423 \setcounter{footnote}{0}%
11424 \global\let\thanks\relax
11425 \global\let\maketitle\relax
11426 \global\let\@maketitle\relax
11427 \global\let\@thanks\@empty
11428 \global\let\@author\@empty
11429 \global\let\@date\@empty
11430 \global\let\@title\@empty
11431 \global\let\title\relax
11432 \global\let\author\relax
11433 \global\let\date\relax
11434 \global\let\and\relax
11435 }
11436 \def\@maketitle{%
11437     \newpage
11438     \null
11439     \vskip 2em%
11440     \begin{center}%
11441     \let \footnote \thanks
11442         {\LARGE \@title \par}%
11443         \vskip 1.5em%
11444         {\large
11445             \lineskip .5em%
11446             \begin{tabular}[t]{c}%
11447                 \@author
11448             \end{tabular}\par}%
11449         \vskip 1em%
11450         {\large \@date}%
11451     \end{center}%
11452     \par
11453     \vskip 1.5em}
11454 \fi
11455 \renewcommand\thesubsection {\thesection\@SepMark\@arabic\c@subsection}
11456 \renewcommand\thesubsubsection{\thesubsection \@SepMark\@arabic\c@subsubsection}
11457 \renewcommand\theparagraph {\thesubsubsection\@SepMark\@arabic\c@paragraph}
11458 \renewcommand\thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}%%

```

## 84 File extbook-xetex-bidi.def

```

11459 \ProvidesFile{extbook-xetex-bidi.def}[2017/06/09 v0.4 bidi adaptations for extbook class for
11460 \if@titlepage
11461 \renewcommand\maketitle{\begin{titlepage}%
11462 \let\footnotesize\small
11463 \let\right@footnoterule\relax

```



```

11464 \let\left@footnoterule\relax
11465 \let\textwidth@footnoterule\relax
11466 \let \footnote \thanks
11467 \let \LTRfootnote \LTRthanks
11468 \let \RTLfootnote \RTLthanks
11469 \null\vfil
11470 \vskip 60\p@
11471 \begin{center}%
11472   {\LARGE \@title \par}%
11473   \vskip 3em%
11474   {\large
11475     \lineskip .75em%
11476     \begin{tabular}[t]{c}%
11477       \@author
11478     \end{tabular}\par}%
11479     \vskip 1.5em%
11480     {\large \@date \par}%           % Set date in \large size.
11481 \end{center}\par
11482 \@thanks
11483 \vfil\null
11484 \end{titlepage}%
11485 \setcounter{footnote}{0}%
11486 \global\let\thanks\relax
11487 \global\let\LTRthanks\relax
11488 \global\let\RTLthanks\relax
11489 \global\let\maketitle\relax
11490 \global\let\@thanks\@empty
11491 \global\let\@author\@empty
11492 \global\let\@date\@empty
11493 \global\let\@title\@empty
11494 \global\let\title\relax
11495 \global\let\author\relax
11496 \global\let\date\relax
11497 \global\let\and\relax
11498 }
11499 \else
11500 \renewcommand\maketitle{\par
11501   \begingroup
11502     \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
11503     \def\@makefnmark{\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
11504     \long\def\@makefntext##1{\parindent 1em\noindent
11505       \hb@xt@1.8em{%
11506         \hss\@textsuperscript{\normalfont\@thefnmark}}##1}%
11507     \if@twocolumn
11508       \ifnum \col@number=\@ne
11509         \@maketitle
11510       \else
11511         \twocolumn[\@maketitle]%
11512       \fi
11513     \else
11514       \newpage
11515       \global\@topnum\z@ % Prevents figures from going at top of page.
11516       \@maketitle
11517     \fi

```



```

11518 \thispagestyle{plain}\@thanks
11519 \endgroup
11520 \setcounter{footnote}{0}%
11521 \global\let\thanks\relax
11522 \global\let\LTRthanks\relax
11523 \global\let\RTLthanks\relax
11524 \global\let\maketitle\relax
11525 \global\let\@maketitle\relax
11526 \global\let\@thanks\@empty
11527 \global\let\@author\@empty
11528 \global\let\@date\@empty
11529 \global\let\@title\@empty
11530 \global\let\title\relax
11531 \global\let\author\relax
11532 \global\let\date\relax
11533 \global\let\and\relax
11534 }
11535 \def\@maketitle{%
11536 \newpage
11537 \null
11538 \vskip 2em%
11539 \begin{center}%
11540 \let \footnote \thanks
11541 \let \LTRfootnote \LTRthanks
11542 \let \RTLfootnote \RTLthanks
11543 {\LARGE \@title \par}%
11544 \vskip 1.5em%
11545 {\large
11546 \lineskip .5em%
11547 \begin{tabular}[t]{c}%
11548 \@author
11549 \end{tabular}\par}%
11550 \vskip 1em%
11551 {\large \@date}%
11552 \end{center}%
11553 \par
11554 \vskip 1.5em}
11555 \fi
11556 \renewcommand*\l@part[2]{%
11557 \ifnum \c@tocdepth >-2\relax
11558 \addpenalty{-\@highpenalty}%
11559 \addvspace{2.25em \@plus\p@}%
11560 \begingroup
11561 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
11562 \parfillskip -\@pnumwidth
11563 {\leavevmode
11564 \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
11565 \nobreak
11566 \global\@nobreaktrue
11567 \everypar{\global\@nobreakfalse\everypar{}}%
11568 \endgroup
11569 \fi}
11570 \renewcommand\theequation
11571 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@equation}

```





```

11572 \renewcommand \thefigure
11573     {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@figure}
11574 \renewcommand \thetable
11575     {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@table}
11576 \renewcommand \thechapter {\@arabic\c@chapter}
11577 \renewcommand \thesection {\thechapter\@SepMark\@arabic\c@section}
11578 \renewcommand \thesubsection {\thesection\@SepMark\@arabic\c@subsection}
11579 \renewcommand \thesubsubsection{\thesubsection \@SepMark\@arabic\c@subsubsection}
11580 \renewcommand \theparagraph {\thesubsubsection\@SepMark\@arabic\c@paragraph}
11581 \renewcommand \thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}
11582 \def\@makechapterhead#1{%
11583     \vspace*{50\p@}%
11584     {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi \normalfont
11585     \ifnum \c@secnumdepth >\m@ne
11586         \if@mainmatter
11587             \huge\bfseries \@chapapp\space \thechapter
11588             \par\nobreak
11589             \vskip 20\p@
11590         \fi
11591         \fi
11592         \interlinepenalty\@M
11593         \Huge \bfseries #1\par\nobreak
11594         \vskip 40\p@
11595     }}
11596
11597 \def\@makeschapterhead#1{%
11598     \vspace*{50\p@}%
11599     {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi
11600     \normalfont
11601     \interlinepenalty\@M
11602     \Huge \bfseries #1\par\nobreak
11603     \vskip 40\p@
11604     }}
11605 \renewcommand\backmatter{%
11606     \if@openright
11607         \cleardoublepage
11608     \else
11609         \clearpage
11610     \fi
11611     \@mainmatterfalse}
11612 \renewenvironment{thebibliography}[1]
11613     {\chapter*{\bibname
11614         \@mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}}%
11615     \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
11616     \bidi@thebibliography@font@hook%
11617     \list{\@biblabel{\@arabic\c@enumiv}}%
11618         {\settowidth\labelwidth{\@biblabel{#1}}%
11619         \leftmargin\labelwidth
11620         \advance\leftmargin\labelsep
11621         \@openbib@code
11622         \usecounter{enumiv}}%
11623     \let\p@enumiv\@empty
11624     \renewcommand\theenumiv{\@arabic\c@enumiv}}%
11625     \sloppy

```



```

11626     \clubpenalty4000
11627     \@clubpenalty \clubpenalty
11628     \widowpenalty4000%
11629     \sfcode`.\@m}
11630     {\def\@noitemerr
11631       {\@latex@warning{Empty `thebibliography' environment}}}%
11632     \endlist}

```

## 85 File extletter-xetex-bidi.def

```

11633 \ProvidesFile{extletter-xetex-bidi.def}[2015/11/14 v0.2 bidi adaptations for extletter class]
11634 \renewcommand*{\opening}[1]{\ifx\@empty\fromaddress
11635   \thispagestyle{firstpage}%
11636   {\ifRTL\raggedright\else\raggedleft\fi \@date\par}%
11637   \else % home address
11638     \thispagestyle{empty}%
11639     {\ifRTL\raggedright\begin{tabular}{r@{}}\else\raggedleft\begin{tabular}{l@{}}\fi\ignore
11640       \fromaddress \*[2\parskip]%
11641       \@date \end{tabular}\par}%
11642   \fi
11643   \vspace{2\parskip}%
11644   {\ifRTL\raggedleft\else\raggedright\fi \toname \ \ toaddress \par}%
11645   \vspace{2\parskip}%
11646   #1\par\nobreak}
11647 \renewcommand{\closing}[1]{\par\nobreak\vspace{\parskip}%
11648   \stopbreaks
11649   \noindent
11650   \ifx\@empty\fromaddress\else
11651     \hspace*{\longindentation}\fi
11652   \parbox{\indentedwidth}{\ifRTL\raggedleft\else\raggedright\fi
11653     \ignorespaces #1\[\[6\medskipamount]}%
11654     \ifx\@empty\fromsig
11655       \fromname
11656     \else \fromsig \fi\strut}%
11657   \par}
11658 \renewcommand\left@footnoterule{%
11659   \kern-\p@
11660   \hrule \@width .4\columnwidth
11661   \kern .6\p@}
11662 \renewcommand\right@footnoterule{%
11663   \kern-\p@
11664   \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
11665   \kern .6\p@}

```

## 86 File extrafootnotefeatures-xetex-bidi.def

```

11666 \ProvidesFile{extrafootnotefeatures-xetex-bidi.def}[2025/01/03 v2.7 bidi extra footnote feat
11667 \newdimen\bidi@columnwidth
11668 \def\bidi@floathook{%
11669   \bidi@columnwidth\columnwidth
11670 }
11671 \newcommand*{\@bidi@before@Hy@hyperfootnotes}{%
11672 \if@bidi@csundef{\ifHy@hyperfootnotes}{-}{-}%
11673 \if@bidi@csundef{HLTR@LTRfootnotetext}{-}{-}%

```



```

11674 \ifHy@hyperfootnotes
11675 \let@@H@@footnotetext\@footnotetext
11676 \let@@HLTR@@LTRfootnotetext\@LTRfootnotetext
11677 \let@@HRTL@RTLfootnotetext\@RTLfootnotetext
11678 \let@@H@@mpfootnotetext\@mpfootnotetext
11679 \let@@HLTR@@mpLTRfootnotetext\@mpLTRfootnotetext
11680 \let@@HRTL@mpRTLfootnotetext\@mpRTLfootnotetext
11681 \fi
11682 }%
11683 }%
11684 }
11685 \newcommand*{\@bidi@after@Hy@hyperfootnotes}{%
11686 \if@bidi@csundef{ifHy@hyperfootnotes}{-}{%
11687 \if@bidi@csundef{HLTR@@LTRfootnotetext}{-}{%
11688 \ifHy@hyperfootnotes
11689 \let\H@@footnotetext\@footnotetext
11690 \let\@footnotetext\@@H@@footnotetext
11691 \let\HLTR@@LTRfootnotetext\@LTRfootnotetext
11692 \let\@LTRfootnotetext\@@HLTR@@LTRfootnotetext
11693 \let\HRTL@RTLfootnotetext\@RTLfootnotetext
11694 \let\@RTLfootnotetext\@@HRTL@RTLfootnotetext
11695 \let\H@@mpfootnotetext\@mpfootnotetext
11696 \let\@mpfootnotetext\@@H@@mpfootnotetext
11697 \let\HLTR@@mpLTRfootnotetext\@mpLTRfootnotetext
11698 \let\@mpLTRfootnotetext\@@HLTR@@mpLTRfootnotetext
11699 \let\HRTL@mpRTLfootnotetext\@mpRTLfootnotetext
11700 \let\@mpRTLfootnotetext\@@HRTL@mpRTLfootnotetext
11701 \fi
11702 }%
11703 }%
11704 }
11705 \let\autofooterule\relax
11706 \let\rightfootnoterule\relax
11707 \let\leftfootnoterule\relax
11708 \let\textwidthfootnoterule\relax
11709 \let\LRfootnoterule\relax
11710 \def\footnoterule{\kern-3\p@
11711 \hrule \@width \columnwidth \kern 2.6\p@}
11712 \newcommand{\@preamnormalfmt}{%
11713 \parindent 1em%
11714 \noindent
11715 }
11716 \newcommand{\@normalfootfmt}[1]{%
11717 \@preamnormalfmt
11718 \footfootmark
11719 \rule{z@\footnotesep}{\ignorespaces{\foottextfont #1}%
11720 \@finalstrut\strutbox
11721 }
11722 \newcommand{\@normalRTLfootfmt}[1]{%
11723 \@preamnormalfmt
11724 \RTLfootfootmark
11725 \rule{z@\footnotesep}{\ignorespaces{\RTLfoottextfont #1}%
11726 \@finalstrut\strutbox
11727 }

```



```

11728 \newcommand{\@normalLTRfootfmt}[1]{%
11729   \@preamnormalfmt
11730   \LTRfootfootmark
11731   \rule\z@\footnotesep\ignorespaces{\LTRfoottextfont #1}%
11732   \@finalstrut\strutbox
11733 }
11734 \renewcommand{\@footnotetext}[1]{%
11735   \insert\footins{%
11736     \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
11737     \def\baselinestretch{\m@m@footnote@spacing}%
11738     \reset@font
11739     \foottextfont
11740     \@preamfntext
11741     \hsize\columnwidth
11742     \protected@edef\@currentlabel{%
11743       \csname p@footnote\endcsname\@thefnmark}%
11744     \color@begingroup
11745     \@normalfootfmt{#1}%
11746     \color@endgroup}%
11747     \m@mmf@prepare}
11748 \newcommand{\@bidi@bidiold@footnotetext}[1]{%
11749   \bidi@step@absolute@footnote@count
11750   \bidi@reinsertfootnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l
11751   \insert\footins{%
11752     \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
11753     \def\baselinestretch{\m@m@footnote@spacing}%
11754     \reset@font
11755     \foottextfont
11756     \@preamfntext
11757     \hsize\columnwidth
11758     \protected@edef\@currentlabel{%
11759       \csname p@footnote\endcsname\@thefnmark}%
11760     \color@begingroup
11761     \@normalfootfmt{#1}%
11762     \color@endgroup}%
11763     \m@mmf@prepare}
11764 }
11765 \renewcommand{\@RTLfootnotetext}[1]{%
11766   \insert\footins{%
11767     \@RTLtrue%
11768     \def\baselinestretch{\m@m@footnote@spacing}%
11769     \reset@font
11770     \RTLfoottextfont
11771     \@preamfntext
11772     \hsize\columnwidth
11773     \protected@edef\@currentlabel{%
11774       \csname p@footnote\endcsname\@thefnmark}%
11775     \color@begingroup
11776     \@normalRTLfootfmt{#1}%
11777     \color@endgroup}%
11778     \m@mmf@prepare}
11779 \newcommand{\@bidi@bidiold@RTLfootnotetext}[1]{%
11780   \bidi@step@absolute@footnote@count
11781   \bidi@reinsertfootnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l

```



```

11782 \insert\footins{%
11783 \RTLtrue%
11784 \def\baselinestretch{\m@m@footnote@spacing}%
11785 \reset@font
11786 \RTLfoottextfont
11787 \@preamftext
11788 \hsize\columnwidth
11789 \protected@edef\@currentlabel{%
11790 \csname p@footnote\endcsname\@thefnmark}%
11791 \color@begingroup
11792 \@normalRTLfootfmt{#1}%
11793 \color@endgroup}%
11794 \m@mmf@prepare
11795 }
11796 \renewcommand{\LTRfootnotetext}[1]{%
11797 \insert\footins{%
11798 \RTLfalse%
11799 \def\baselinestretch{\m@m@footnote@spacing}%
11800 \reset@font
11801 \LTRfoottextfont
11802 \@preamftext
11803 \hsize\columnwidth
11804 \protected@edef\@currentlabel{%
11805 \csname p@footnote\endcsname\@thefnmark}%
11806 \color@begingroup
11807 \@normalLTRfootfmt{#1}%
11808 \color@endgroup}%
11809 \m@mmf@prepare}
11810 \renewcommand{\mpfootnotetext}[1]{%
11811 \global\setbox\@mpfootins\vbox{%
11812 \unvbox\@mpfootins
11813 \if@RTL@footnote\RTLtrue\else\RTLfalse\fi
11814 \def\baselinestretch{\m@m@footnote@spacing}%
11815 \reset@font%
11816 \foottextfont \hsize\columnwidth \@parboxrestore
11817 \protected@edef\@currentlabel{%
11818 \csname p@mpfootnote\endcsname\@thefnmark}%
11819 \color@begingroup
11820 \@normalfootfmt{#1}%
11821 \color@endgroup}}
11822 \newcommand{\bidi@bidiold@mpfootnotetext}[1]{%
11823 \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
11824 \global\setbox\@mpfootins\vbox{%
11825 \unvbox\@mpfootins
11826 \if@RTL@footnote\RTLtrue\else\RTLfalse\fi%
11827 \def\baselinestretch{\m@m@footnote@spacing}%
11828 \reset@font%
11829 \foottextfont \hsize\columnwidth \@parboxrestore
11830 \protected@edef\@currentlabel{%
11831 \csname p@mpfootnote\endcsname\@thefnmark}%
11832 \color@begingroup
11833 \@normalfootfmt{#1}%
11834 \color@endgroup}}
11835 \renewcommand{\mpLTRfootnotetext}[1]{%

```



```

11836 \global\setbox\@mpfootins\vbox{%
11837   \unvbox\@mpfootins
11838   \@RTLfalse
11839   \def\baselinestretch{\m@m@footnote@spacing}%
11840   \reset@font%
11841   \LTRfoottextfont \hsize\columnwidth \@parboxrestore
11842   \protected@edef\@currentlabel{%
11843     \csname p@mpfootnote\endcsname\@thefnmark}%
11844   \color@begingroup
11845     \@normalLTRfootfmt{#1}%
11846   \color@endgroup}}
11847 \renewcommand{\@mpRTLfootnotetext}[1]{%
11848   \global\setbox\@mpfootins\vbox{%
11849     \unvbox\@mpfootins
11850     \@RTLtrue
11851     \def\baselinestretch{\m@m@footnote@spacing}%
11852     \reset@font%
11853     \RTLfoottextfont \hsize\columnwidth \@parboxrestore
11854     \protected@edef\@currentlabel{%
11855       \csname p@mpfootnote\endcsname\@thefnmark}%
11856     \color@begingroup
11857       \@normalRTLfootfmt{#1}%
11858     \color@endgroup}}
11859 \newcommand{\@bidi@bidiold@mpRTLfootnotetext}[1]{%
11860   \@bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
11861   \global\setbox\@mpfootins\vbox{%
11862     \unvbox\@mpfootins
11863     \@RTLtrue
11864     \def\baselinestretch{\m@m@footnote@spacing}%
11865     \reset@font%
11866     \RTLfoottextfont \hsize\columnwidth \@parboxrestore
11867     \protected@edef\@currentlabel{%
11868       \csname p@mpfootnote\endcsname\@thefnmark}%
11869     \color@begingroup
11870       \@normalRTLfootfmt{#1}%
11871     \color@endgroup}}
11872 \let\m@mold@footnotetext\@footnotetext
11873 \let\m@mold@LTRfootnotetext\@LTRfootnotetext
11874 \let\m@mold@RTLfootnotetext\@RTLfootnotetext
11875 \let\m@mold@mpfootnotetext\@mpfootnotetext
11876 \let\m@mold@mpLTRfootnotetext\@mpLTRfootnotetext
11877 \let\m@mold@mpRTLfootnotetext\@mpRTLfootnotetext
11878 \bidi@ensure@newcommand{\normalfootnotes}{%
11879   \@bidi@before@Hy@hyperfootnotes
11880   \let\@footnotetext\m@mold@footnotetext
11881   \let\@LTRfootnotetext\m@mold@LTRfootnotetext
11882   \let\@RTLfootnotetext\m@mold@RTLfootnotetext
11883   \let\@mpfootnotetext\m@mold@mpfootnotetext
11884   \let\@mpLTRfootnotetext\m@mold@mpLTRfootnotetext
11885   \let\@mpRTLfootnotetext\m@mold@mpRTLfootnotetext
11886   \@bidi@after@Hy@hyperfootnotes
11887   \ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
11888 }
11889 \IfClassLoadedT{memoir}{\let\plainfootnotes\normalfootnotes}

```



```

11890 \bidi@ensure@newcommand*\setSingleSpace}[1]{%
11891   \def\m@m@singlespace{#1}%
11892   \def\m@m@footnote@spacing{#1}%
11893   \def\m@m@float@spacing{#1} %
11894 }
11895 \setSingleSpace{1}
11896 \bidi@ensure@newcommand*\multiplefootnotemarker}{3sp}
11897 \bidi@ensure@newcommand*\m@mmf@prepare}{%
11898   \kern-\multiplefootnotemarker
11899   \kern\multiplefootnotemarker\relax}
11900 \bidi@ensure@newlength{\footmarkwidth}
11901 \bidi@ensure@newcommand*\footmarkstyle}[1]{\def\footscript##1{#1}}
11902 \bidi@ensure@newcommand*\LTRfootmarkstyle}[1]{\def\LTRfootscript##1{#1}}
11903 \bidi@ensure@newcommand*\RTLfootmarkstyle}[1]{\def\RTLfootscript##1{#1}}
11904 \bidi@ensure@newcommand{\footfootmark}{%
11905   \ifdim\footmarkwidth < \z@
11906     \llap{\hb@xt@ -\footmarkwidth{%
11907       \hss\normalfont\footscript{\@thefnmark}}%
11908       \hspace*{-\footmarkwidth}}}%
11909   \else
11910     \ifdim\footmarkwidth = \z@
11911       {\normalfont\footscript{\@thefnmark}}%
11912     \else
11913       \hb@xt@\footmarkwidth{\hss\normalfont\footscript{\@thefnmark}}%
11914     \fi
11915   \fi}
11916 \bidi@ensure@newcommand{\LTRfootfootmark}{%
11917   \ifdim\footmarkwidth < \z@
11918     \llap{\hb@xt@ -\footmarkwidth{%
11919       \hss\normalfont\LTRfootscript{\@thefnmark}}%
11920       \hspace*{-\footmarkwidth}}}%
11921   \else
11922     \ifdim\footmarkwidth = \z@
11923       {\normalfont\LTRfootscript{\@thefnmark}}%
11924     \else
11925       \hb@xt@\footmarkwidth{\hss\normalfont\LTRfootscript{\@thefnmark}}%
11926     \fi
11927   \fi}
11928 \bidi@ensure@newcommand{\RTLfootfootmark}{%
11929   \ifdim\footmarkwidth < \z@
11930     \llap{\hb@xt@ -\footmarkwidth{%
11931       \hss\normalfont\RTLfootscript{\@thefnmark}}%
11932       \hspace*{-\footmarkwidth}}}%
11933   \else
11934     \ifdim\footmarkwidth = \z@
11935       {\normalfont\RTLfootscript{\@thefnmark}}%
11936     \else
11937       \hb@xt@\footmarkwidth{\hss\normalfont\RTLfootscript{\@thefnmark}}%
11938     \fi
11939   \fi}
11940 \footmarkstyle{\textsuperscript{#1}}
11941 \LTRfootmarkstyle{\textsuperscript{#1}}
11942 \RTLfootmarkstyle{\textsuperscript{#1}}
11943 \newcommand*\bidi@normal@footmarkwidth}{%

```



```

11944 \setlength{\footmarkwidth}{1em plus.3em minus.3em}%
11945 }
11946 \newcommand*\bidi@star@footmarkwidth}{%
11947 \setlength{\footmarkwidth}{0em plus.3em minus.3em}%
11948 }
11949 \bidi@normal@footmarkwidth
11950 \bidi@ensure@newcommand{\m@mdoextrafeet}{\extrafeetins}
11951 \bidi@ensure@newcommand*\extrafeetins}{%
11952 \bidi@joinfootnotes\footinsv@r\@footstartv@r\@footgroupv@r
11953 \bidi@joinfootnotes\footinsv@l\@footstartv@l\@LTRfootgroupv@l
11954 \bidi@joinfootnotes\@bidi@copyins@{ }\@unvbox\@bidi@copyins@}%
11955 \extrafeetinshook}
11956 \bidi@ensure@newcommand{\extrafeetinshook}{ }
11957 \bidi@ensure@newcommand{\foottextfont}{\footnotesize}
11958 \bidi@ensure@newcommand{\LTRfoottextfont}{\footnotesize}
11959 \bidi@ensure@newcommand{\RTLfoottextfont}{\footnotesize}
11960 \bidi@ensure@newlength{\footinsdim}
11961 \setlength{\footinsdim}{8in} % standard for \dimen\footins
11962 \bidi@ensure@newcommand{\@preamfntext}{%
11963 \interlinepenalty\interfootnotelinepenalty
11964 \floatingpenalty \@MM
11965 \splittopskip=\footnotesep
11966 \splitmaxdepth=\dp\strutbox
11967 \@parboxrestore}
11968 \def\bidi@ifmulticol#1#2{\@tempswafalse
11969 \ifnum\col@number>\@one
11970 \ifnum\count\footins>1999 \@tempwatrue \fi
11971 \fi
11972 \if@tempswa #1\else #2\fi
11973 }
11974 \def\bidi@joinfootnotes#1#2#3{%
11975 \ifvoid#1
11976 \else
11977 \@tempskipa\skip#1%
11978 \bidi@ifmulticol{\divide\@tempskipa\col@number}{ }%
11979 \edef\bidi@footskip{\vskip\the\@tempskipa\relax}%
11980 \bidi@removexfootskip
11981 \ifvoid\footins
11982 \global\setbox\footins\vbox{#2#3}%
11983 \else
11984 \global\setbox\footins\vbox{%
11985 \unvbox\footins
11986 \bidi@footskip
11987 #2#3%
11988 }%
11989 \fi
11990 \fi
11991 }
11992 \def\bidi@reinsertfootnote#1#2#3{%
11993 \ifvoid#1%
11994 \else
11995 \insert\footins{#2#3}%
11996 \fi
11997 }

```





```

11998 \def\ bidi@joinmpfootnotes#1#2#3{%
11999   \ifvoid#1
12000   \else
12001     \@tempskipa\skip#1%
12002     \bidi@ifmulticol{\divide\@tempskipa\col@number}{}%
12003     \edef\bidi@footskip{\vskip\the\@tempskipa\relax}%
12004     \bidi@removexfootskip
12005     \ifvoid\@mpfootins
12006       \global\setbox\@mpfootins\vbox{#2#3}%
12007     \else
12008       \global\setbox\@mpfootins\vbox{%
12009         \unvbox\@mpfootins
12010         \bidi@footskip
12011         #2#3%
12012       }%
12013     \fi
12014   \fi
12015 }
12016 \newcount\bidi@absolutepage@count
12017 \bidi@absolutepage@count\@ne
12018 \newcount\bidi@absolutefootnote@count
12019 \bidi@AfterOutputBoxOutputPage{%
12020   \if@filesw
12021     \edef\@tempa{%
12022       \write\@auxout{%
12023         \string\bidi@finalfootnoteperpage%
12024         {\noexpand\number\noexpand\bidi@absolutepage@count}%
12025         {\noexpand\number\noexpand\bidi@absolutefootnote@count}%
12026       }%
12027     }%
12028     \@tempa
12029   \fi
12030 }
12031 \bidi@AtEndOutputPage{%
12032   \global\advance\bidi@absolutepage@count\@ne
12033 }
12034 \newcommand*\bidi@finalfootnoteperpage}[2]{%
12035   \expandafter\gdef\csname bidi@currentpagefinalfootnote@#1\endcsname{#2}%
12036 }
12037 \newif\if@bidi@finalfootnoteperpage
12038 \newcommand{\bidi@ifafterfinalfootnoteperpage}[2]{%
12039   \if@bidi@csundef{bidi@currentpagefinalfootnote@@\number\bidi@absolutepage@count}{%
12040     \global\@bidi@finalfootnoteperpagetrue
12041   }{%
12042     \global\@bidi@finalfootnoteperpagefalse
12043     \ifnum\bidi@absolutefootnote@count=\bidi@csuse{bidi@currentpagefinalfootnote@@\number\bidi@absolutepage@count}
12044       #1%
12045     \else
12046       #2%
12047     \fi
12048   }%
12049 }
12050 \newcommand{\bidi@reinsertfinalfootnoteperpage}[3]{%
12051   \bidi@ifafterfinalfootnoteperpage{%

```



```

12052 \bidi@reinsertfootnote{#1}{#2}{#3}%
12053 }{%
12054 }%
12055 }
12056 \newcommand*{\bidi@step@absolutefootnote@count}{%
12057 \global\advance\bidi@absolutefootnote@count\@ne
12058 }
12059 \bidi@AfterEndDocumentCheckLabelsRerun{%
12060 \if@bidi@finalfootnoteperpage
12061 \PackageWarningNoLine{bidi}{%
12062 The absolute final footnote is not
12063 known on every page of your
12064 document. Rerun TeX to get the
12065 absolute final footnote on every page
12066 of your document%
12067 }%
12068 \fi
12069 }
12070 \bidi@ensure@newcommand{\m@mdoextrafeetmini}{%
12071 \extrafeetminihook}
12072 \bidi@ensure@newcommand{\extrafeetendmini}{%
12073 \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
12074 \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
12075 \extrafeetendminihook}
12076 \bidi@ensure@newcommand{\extrafeetendminihook}{%
12077 \bidi@ensure@newcommand{\m@mdoextrafeetendmini}{\extrafeetendmini}
12078 \def\endminipage{%
12079 \par
12080 \unskip
12081 \m@mdoextrafeetendmini
12082 \ifvoid\@mpfootins
12083 \else
12084 \vskip\skip\@mpfootins
12085 \normalcolor
12086 \footnoterule
12087 \unvbox\@mpfootins
12088 \fi
12089 \@minipagefalse
12090 \color@endgroup
12091 \egroup
12092 \expandafter\@iiiparbox\@mpargs{\unvbox\@tempboxa}}
12093 \bidi@ensure@newcommand{\m@make@footstart}[1]{%
12094 \@namedef{@footstart#1}{%
12095 \leftskip=\z@
12096 \rightskip=\z@
12097 \parindent=\z@
12098 }%
12099 }
12100 \newinsert\footinsv@r
12101 \skip\footinsv@r\skip\footins
12102 \count\footinsv@r=1000 % no magnification
12103 \dimen\footinsv@r=\footinsdim
12104 \m@make@footstart{v@r}
12105 \newinsert\footinsv@l

```



```

12106 \skip\footinsv@l\skip\footins
12107 \count\footinsv@l=1000 % no magnification
12108 \dimen\footinsv@l=\footinsdim
12109 \m@make@footstart{v@l}
12110 \bidi@ensure@newcommand{\@footgroupv@r}{ }
12111 \newinsert\@mpfootinsv@r
12112 \skip\@mpfootinsv@r\skip\@mpfootins
12113 \newinsert\@mpfootinsv@l
12114 \skip\@mpfootinsv@l\skip\@mpfootins
12115 \bidi@ensure@newcommand{\mp@footgroupv@r}{ }
12116 \newcount\m@m@k \newdimen\m@m@h
12117 \bidi@ensure@newcommand*{\m@m@rigidbalance}[3]{\setbox0=\box#1 \m@m@k=#2 \m@m@h=#3
12118 \@@line{\beginR\splittopskip=\m@m@h \vbadness=\@M \hfilneg
12119 \valign{##\vfill\cr\m@m@dosplits}\endR}}
12120 \newcommand*{\bidi@LTRrigidbalance}[3]{\setbox0=\box#1 \m@m@k=#2 \m@m@h=#3
12121 \@@line{\beginL\splittopskip=\m@m@h \vbadness=\@M \hfilneg
12122 \valign{##\vfill\cr\m@m@dosplits}\endL}}
12123 \bidi@ensure@newcommand*{\m@m@dosplits}{\ifnum\m@m@k>0 \noalign{\hfil}\m@m@splitoff
12124 \global\advance\m@m@k-1\cr\m@m@dosplits\fi}
12125 \bidi@ensure@newcommand*{\m@m@splitoff}{\dimen0=\ht0
12126 \divide\dimen0 by\m@m@k \advance\dimen0 by\m@m@h
12127 \setbox2 \vsplit0 to \dimen0
12128 \unvbox2 }
12129 \bidi@ensure@newcommand{\twocolumnfootnotes}{%
12130 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
12131 \@namedef{foottextfontv@l}{\LTRfoottextfont}%
12132 \@bidi@before@Hy@hyperfootnotes
12133 \let\@footnotetext\@twocolfootnotetext
12134 \let\@LTRfootnotetext\@twocolLTRfootnotetext
12135 \let\@RTLfootnotetext\@twocolRTLfootnotetext
12136 \dimen\footinsv@r=2\footinsdim
12137 \count\footinsv@r=500\relax
12138 \m@make@twocol@footgroup{v@r}%
12139 \let\@footgroupv@r\@twocol@footgroupv@r
12140 \dimen\footinsv@l=2\footinsdim
12141 \count\footinsv@l=500\relax
12142 \bidi@make@twocol@LTRfootgroup{v@l}%
12143 \let\@LTRfootgroupv@l\@twocol@LTRfootgroupv@l
12144 \let\@mpfootnotetext\@mptwocolfootnotetext
12145 \let\@mpLTRfootnotetext\@mptwocolLTRfootnotetext
12146 \let\@mpRTLfootnotetext\@mptwocolRTLfootnotetext
12147 \@bidi@after@Hy@hyperfootnotes
12148 \m@make@mptwocol@footgroup{v@r}%
12149 \let\mp@footgroupv@r\@mptwocol@footgroupv@r
12150 \bidi@make@mptwocol@LTRfootgroup{v@l}%
12151 \let\mp@LTRfootgroupv@l\@mptwocol@LTRfootgroupv@l
12152 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
12153 }
12154 \newcommand{\TwoColumnFootnotes}{%
12155 \@namedef{foottextfontv@r}{\foottextfont}%
12156 \@namedef{foottextfontv@l}{\LTRfoottextfont}%
12157 \@bidi@before@Hy@hyperfootnotes
12158 \let\@footnotetext\@TwoColfootnotetext
12159 \let\@LTRfootnotetext\@TwoCollTRfootnotetext

```



```

12160 \let\@RTLfootnotetext\@TwoColRTLfootnotetext
12161 \dimen\footinsv@r=2\footinsdim
12162 \count\footinsv@r=500\relax
12163 \m@make@twocol@footgroup{v@r}%
12164 \let\@footgroupv@r\@twocol@footgroupv@r
12165 \dimen\footinsv@l=2\footinsdim
12166 \count\footinsv@l=500\relax
12167 \bidi@make@twocol@LTRfootgroup{v@l}%
12168 \let\@LTRfootgroupv@l\@twocol@LTRfootgroupv@l
12169 \let\@mpfootnotetext\@mpTwoColfootnotetext
12170 \let\@mpLTRfootnotetext\@mpTwoColLTRfootnotetext
12171 \let\@mpRTLfootnotetext\@mpTwoColRTLfootnotetext
12172 \@bidi@after@Hy@hyperfootnotes
12173 \m@make@emptwocol@footgroup{v@r}%
12174 \let\mp@footgroupv@r\@emptwocol@footgroupv@r
12175 \bidi@make@emptwocol@LTRfootgroup{v@l}%
12176 \let\mp@LTRfootgroupv@l\@emptwocol@LTRfootgroupv@l
12177 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
12178 }
12179 \bidi@ensure@newcommand{\@twocolfootnotetext}[1]{\insert
12180 \ifRTL@footnote
12181 \footinsv@r
12182 \else
12183 \footinsv@l
12184 \fi
12185 {\ifRTL@footnote\@RTLtrue\else\@RTLfalse\fi%
12186 \def\baselinestretch{\m@footnote@spacing}%
12187 \reset@font\foottextfont
12188 \@preamfntext
12189 \protected@edef\@currentlabel{%
12190 \csname p@footnote\endcsname\@thefnmark}%
12191 \color@begingroup
12192 \@twocolfootfmt{#1}%
12193 \color@endgroup}%
12194 \m@mmf@prepare}
12195 \newcommand{\@TwoColfootnotetext}[1]{%
12196 \bidi@step@absolute@footnote@count
12197 \ifRTL@footnote
12198 \bidi@reinsertfootnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l
12199 \else
12200 \bidi@reinsertfootnote\footinsv@r\@footstartv@r\@footgroupv@r
12201 \fi
12202 \global\setbox
12203 \ifRTL@footnote
12204 \footinsv@r
12205 \else
12206 \footinsv@l
12207 \fi
12208 \vbox{%
12209 \unvbox
12210 \ifRTL@footnote
12211 \footinsv@r
12212 \else
12213 \footinsv@l

```



```

12214 \fi
12215 \ifRTL@footnote\@RTLtrue\else\@RTLfalse\fi
12216 \def\baselinestretch{\m@m@footnote@spacing}%
12217 \reset@font\foottextfont
12218 \@preamfntext
12219 \protected@edef\@currentlabel{%
12220   \csname p@footnote\endcsname\@thefnmark}%
12221 \color@begingroup
12222   \@twocolfootfmt{#1}%
12223 \color@endgroup}%
12224 \m@mmf@prepare
12225 \ifRTL@footnote
12226   \bidi@reinsertfinalfootnoteperpage\footinsv@r\@footstartv@r\@footgroupv@r
12227 \else
12228   \bidi@reinsertfinalfootnoteperpage\footinsv@l\@footstartv@l\@LTRfootgroupv@l
12229 \fi
12230 }
12231 \bidi@ensure@newcommand{\@twocolLTRfootnotetext}[1]{\insert\footinsv@l{\@RTLfalse%
12232 \def\baselinestretch{\m@m@footnote@spacing}%
12233 \reset@font\LTRfoottextfont
12234 \@preamfntext
12235 \protected@edef\@currentlabel{%
12236   \csname p@footnote\endcsname\@thefnmark}%
12237 \color@begingroup
12238   \@twocolLTRfootfmt{#1}%
12239 \color@endgroup}%
12240 \m@mmf@prepare}
12241 \newcommand{\@TwoColLTRfootnotetext}[1]{%
12242   \bidi@step@absolute@footnote@count
12243   \bidi@reinsertfootnote\footinsv@r\@footstartv@r\@footgroupv@r
12244   \global\setbox\footinsv@l\vbox{%
12245     \unvbox\footinsv@l
12246     \@RTLfalse
12247     \def\baselinestretch{\m@m@footnote@spacing}%
12248     \reset@font\LTRfoottextfont
12249     \@preamfntext
12250     \protected@edef\@currentlabel{%
12251       \csname p@footnote\endcsname\@thefnmark}%
12252     \color@begingroup
12253       \@twocolLTRfootfmt{#1}%
12254     \color@endgroup}%
12255     \m@mmf@prepare
12256     \bidi@reinsertfinalfootnoteperpage\footinsv@l\@footstartv@l\@LTRfootgroupv@l
12257   }
12258 \bidi@ensure@newcommand{\@twocolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
12259 \def\baselinestretch{\m@m@footnote@spacing}%
12260 \reset@font\RTLfoottextfont
12261 \@preamfntext
12262 \protected@edef\@currentlabel{%
12263   \csname p@footnote\endcsname\@thefnmark}%
12264 \color@begingroup
12265   \@twocolRTLfootfmt{#1}%
12266 \color@endgroup}%
12267 \m@mmf@prepare}

```



```

12268 \newcommand{\@TwoColRTLfootnotetext}[1]{%
12269   \bidi@step@absolute@footnote@count
12270 \bidi@reinsertfootnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l
12271   \global\setbox\footinsv@r\vbox{%
12272     \unvbox\footinsv@r
12273     \RTLtrue
12274     \def\baselinestretch{\m@m@footnote@spacing}%
12275     \reset@font\RTLfoottextfont
12276     \@preamftext
12277     \protected@edef\@currentlabel{%
12278       \csname p@footnote\endcsname\@thefnmark}%
12279     \color@begingroup
12280       \@twocolRTLfootfmt{#1}%
12281     \color@endgroup}%
12282     \m@mmf@prepare
12283 \bidi@reinsertfinalfootnoteperpage\footinsv@r\@footstartv@r\@footgroupv@r
12284 }
12285 \bidi@ensure@newcommand{\@preamtwofmt}{%
12286   \hsize .45\hsize
12287   \parindent=\z@
12288   \tolerance=5000\relax
12289   \leavevmode}
12290 \bidi@ensure@newcommand{\@twocolfootfmt}[1]{%
12291   \@preamtwofmt
12292   {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
12293 \bidi@ensure@newcommand{\@twocolLTRfootfmt}[1]{%
12294   \@preamtwofmt
12295   {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
12296 \bidi@ensure@newcommand{\@twocolRTLfootfmt}[1]{%
12297   \@preamtwofmt
12298   {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
12299 \bidi@ensure@newcommand{\@emptwocolfootnotetext}[1]{%
12300   \global\setbox
12301     \if@RTL@footnote
12302     \@mpfootinsv@r
12303   \else
12304     \@mpfootinsv@l
12305   \fi
12306   \vbox{%
12307     \unvbox
12308     \if@RTL@footnote
12309     \@mpfootinsv@r
12310   \else
12311     \@mpfootinsv@l
12312   \fi
12313     \if@RTL@footnote\RTLtrue\else\RTLfalse\fi
12314     \def\baselinestretch{\m@m@footnote@spacing}%
12315     \reset@font\foottextfont
12316     \hsize\columnwidth \@parboxrestore
12317     \protected@edef\@currentlabel{%
12318       \csname p@mpfootnote\endcsname\@thefnmark}%
12319     \color@begingroup
12320       \@twocolfootfmt{#1}%
12321     \color@endgroup}%

```



```

12322 \m@mmf@prepare}
12323 \newcommand{\@mpTwoColfootnotetext}[1]{%
12324   \if@RTL@footnote
12325     \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
12326   \else
12327     \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
12328   \fi
12329   \global\setbox
12330     \if@RTL@footnote
12331     \@mpfootinsv@r
12332   \else
12333     \@mpfootinsv@l
12334   \fi
12335   \vbox{%
12336     \unvbox
12337     \if@RTL@footnote
12338     \@mpfootinsv@r
12339   \else
12340     \@mpfootinsv@l
12341   \fi
12342   \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
12343   \def\baselinestretch{\m@m@footnote@spacing}%
12344   \reset@font\foottextfont
12345   \hsize\columnwidth \@parboxrestore
12346   \protected@edef\@currentlabel{%
12347     \csname p@mpfootnote\endcsname\@thefnmark}%
12348   \color@begingroup
12349     \@twocolfootfmt{#1}%
12350   \color@endgroup}%
12351 \m@mmf@prepare}
12352 \bidi@ensure@newcommand{\@mptwoCOLLTRfootnotetext}[1]{%
12353   \global\setbox\@mpfootinsv@l\vbox{%
12354     \unvbox\@mpfootinsv@l
12355     \@RTLfalse
12356     \def\baselinestretch{\m@m@footnote@spacing}%
12357     \reset@font\LTRfoottextfont
12358     \hsize\columnwidth \@parboxrestore
12359     \protected@edef\@currentlabel{%
12360       \csname p@mpfootnote\endcsname\@thefnmark}%
12361     \color@begingroup
12362       \@twocolLTRfootfmt{#1}%
12363     \color@endgroup}%
12364   \m@mmf@prepare}
12365 \newcommand{\@mpTwoCOLLTRfootnotetext}[1]{%
12366   \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
12367   \global\setbox\@mpfootinsv@l\vbox{%
12368     \unvbox\@mpfootinsv@l
12369     \@RTLfalse
12370     \def\baselinestretch{\m@m@footnote@spacing}%
12371     \reset@font\LTRfoottextfont
12372     \hsize\columnwidth \@parboxrestore
12373     \protected@edef\@currentlabel{%
12374       \csname p@mpfootnote\endcsname\@thefnmark}%
12375   \color@begingroup

```



```

12376 \@twocolLTRfootfmt{#1}%
12377 \color@endgroup}%
12378 \m@mmf@prepare}
12379 \bidi@ensure@newcommand{\@mptwocolRTLfootnotetext}[1]{%
12380 \global\setbox\@mpfootinsv@r\vbox{%
12381 \unvbox\@mpfootinsv@r
12382 \@RTLtrue
12383 \def\baselinestretch{\m@m@footnote@spacing}%
12384 \reset@font\RTLfoottextfont
12385 \hsize\columnwidth \@parboxrestore
12386 \protected@edef\@currentlabel{%
12387 \csname p@mpfootnote@endcsname\@thefnmark}%
12388 \color@begin@group
12389 \@twocolRTLfootfmt{#1}%
12390 \color@endgroup}%
12391 \m@mmf@prepare}
12392 \newcommand{\@mpTwoColRTLfootnotetext}[1]{%
12393 \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
12394 \global\setbox\@mpfootinsv@r\vbox{%
12395 \unvbox\@mpfootinsv@r
12396 \@RTLtrue
12397 \def\baselinestretch{\m@m@footnote@spacing}%
12398 \reset@font\RTLfoottextfont
12399 \hsize\columnwidth \@parboxrestore
12400 \protected@edef\@currentlabel{%
12401 \csname p@mpfootnote@endcsname\@thefnmark}%
12402 \color@begin@group
12403 \@twocolRTLfootfmt{#1}%
12404 \color@endgroup}%
12405 \m@mmf@prepare}
12406 \bidi@ensure@newcommand{\m@make@twocol@footgroup}[1]{%
12407 \@namedef{@twocol@footgroup#1}{%
12408 \def\baselinestretch{\m@m@footnote@spacing}%
12409 \hsize\bidi@columnwidth
12410 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12411 \m@mrigidbalance{\@nameuse{footins#1}}{\tw@}{\splittopskip}}}}
12412 \newcommand{\bidi@make@twocol@LTRfootgroup}[1]{%
12413 \@namedef{@twocol@LTRfootgroup#1}{%
12414 \def\baselinestretch{\m@m@footnote@spacing}%
12415 \hsize\bidi@columnwidth
12416 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12417 \bidi@LTRrigidbalance{\@nameuse{footins#1}}{\tw@}{\splittopskip}}}}
12418 \bidi@ensure@newcommand{\m@make@mptwocol@footgroup}[1]{%
12419 \@namedef{@mptwocol@footgroup#1}{%
12420 \def\baselinestretch{\m@m@footnote@spacing}%
12421 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12422 \m@mrigidbalance{\@nameuse{mpfootins#1}}{\tw@}{\splittopskip}}}}
12423 \newcommand{\bidi@make@mptwocol@LTRfootgroup}[1]{%
12424 \@namedef{@mptwocol@LTRfootgroup#1}{%
12425 \def\baselinestretch{\m@m@footnote@spacing}%
12426 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12427 \bidi@LTRrigidbalance{\@nameuse{mpfootins#1}}{\tw@}{\splittopskip}}}}
12428 \bidi@ensure@newcommand{\threecolumnfootnotes}{%
12429 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]

```





```

12430 \@namedef{foottextfontv@1}{\LTRfoottextfont}%
12431 \@bidi@before@Hy@hyperfootnotes
12432 \let\@footnotetext\@threecolfootnotetext
12433 \let\@LTRfootnotetext\@threecolLTRfootnotetext
12434 \let\@RTLfootnotetext\@threecolRTLfootnotetext
12435 \dimen\footinsv@r=3\footinsdim
12436 \count\footinsv@r=333\relax
12437 \m@make@threecol@footgroup{v@r}%
12438 \let\@footgroupv@r\@threecol@footgroupv@r
12439 \dimen\footinsv@l=3\footinsdim
12440 \count\footinsv@l=333\relax
12441 \bidi@make@threecol@LTRfootgroup{v@l}%
12442 \let\@LTRfootgroupv@l\@threecol@LTRfootgroupv@l
12443 \let\@mpfootnotetext\@mpthreecolfootnotetext
12444 \let\@mpLTRfootnotetext\@mpthreecolLTRfootnotetext
12445 \let\@mpRTLfootnotetext\@mpthreecolRTLfootnotetext
12446 \@bidi@after@Hy@hyperfootnotes
12447 \m@make@mpthreecol@footgroup{v@r}%
12448 \let\mp@footgroupv@r\@mpthreecol@footgroupv@r
12449 \bidi@make@mpthreecol@LTRfootgroup{v@l}%
12450 \let\mp@LTRfootgroupv@l\@mpthreecol@LTRfootgroupv@l
12451 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
12452 }
12453 \newcommand{\ThreeColumnFootnotes}{%
12454 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
12455 \@namedef{foottextfontv@l}{\LTRfoottextfont}%
12456 \@bidi@before@Hy@hyperfootnotes
12457 \let\@footnotetext\@ThreeColfootnotetext
12458 \let\@LTRfootnotetext\@ThreeColLTRfootnotetext
12459 \let\@RTLfootnotetext\@ThreeColRTLfootnotetext
12460 \dimen\footinsv@r=3\footinsdim
12461 \count\footinsv@r=333\relax
12462 \m@make@threecol@footgroup{v@r}%
12463 \let\@footgroupv@r\@threecol@footgroupv@r
12464 \dimen\footinsv@l=3\footinsdim
12465 \count\footinsv@l=333\relax
12466 \bidi@make@threecol@LTRfootgroup{v@l}%
12467 \let\@LTRfootgroupv@l\@threecol@LTRfootgroupv@l
12468 \let\@mpfootnotetext\@mpThreeColfootnotetext
12469 \let\@mpLTRfootnotetext\@mpThreeColLTRfootnotetext
12470 \let\@mpRTLfootnotetext\@mpThreeColRTLfootnotetext
12471 \@bidi@after@Hy@hyperfootnotes
12472 \m@make@mpthreecol@footgroup{v@r}%
12473 \let\mp@footgroupv@r\@mpthreecol@footgroupv@r
12474 \bidi@make@mpthreecol@LTRfootgroup{v@l}%
12475 \let\mp@LTRfootgroupv@l\@mpthreecol@LTRfootgroupv@l
12476 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
12477 }
12478 \bidi@ensure@newcommand{\@threecolfootnotetext}[1]{\insert
12479 \if@RTL@footnote
12480 \footinsv@r
12481 \else
12482 \footinsv@l
12483 \fi

```



```

12484 {\ifRTL@footnote\@RTLtrue\else\@RTLfalse\fi%
12485 \def\baselinestretch{\m@m@footnote@spacing}%
12486 \reset@font\foottextfont
12487 \@preamfntext
12488 \protected@edef\@currentlabel{%
12489 \csname p@footnote\endcsname\@thefnmark}%
12490 \color@begingroup
12491 \@threecolfootfmt{#1}%
12492 \color@endgroup}\m@mmf@prepare}
12493 \newcommand{\@ThreeColfootnotetext}[1]{%
12494 \bidi@step@absolute@footnote@count
12495 \ifRTL@footnote
12496 \bidi@reinsertfootnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l
12497 \else
12498 \bidi@reinsertfootnote\footinsv@r\@footstartv@r\@footgroupv@r
12499 \fi
12500 \global\setbox
12501 \ifRTL@footnote
12502 \footinsv@r
12503 \else
12504 \footinsv@l
12505 \fi
12506 \vbox{%
12507 \unvbox
12508 \ifRTL@footnote
12509 \footinsv@r
12510 \else
12511 \footinsv@l
12512 \fi
12513 \ifRTL@footnote\@RTLtrue\else\@RTLfalse\fi
12514 \def\baselinestretch{\m@m@footnote@spacing}%
12515 \reset@font\foottextfont
12516 \@preamfntext
12517 \protected@edef\@currentlabel{%
12518 \csname p@footnote\endcsname\@thefnmark}%
12519 \color@begingroup
12520 \@threecolfootfmt{#1}%
12521 \color@endgroup}\m@mmf@prepare
12522 \ifRTL@footnote
12523 \bidi@reinsertfinalfootnoteperpage\footinsv@r\@footstartv@r\@footgroupv@r
12524 \else
12525 \bidi@reinsertfinalfootnoteperpage\footinsv@l\@footstartv@l\@LTRfootgroupv@l
12526 \fi
12527 }
12528 \bidi@ensure@newcommand{\@threecolLTRfootnotetext}[1]{\insert\footinsv@l{\@RTLfalse%
12529 \def\baselinestretch{\m@m@footnote@spacing}%
12530 \reset@font\LTRfoottextfont
12531 \@preamfntext
12532 \protected@edef\@currentlabel{%
12533 \csname p@footnote\endcsname\@thefnmark}%
12534 \color@begingroup
12535 \@threecolLTRfootfmt{#1}%
12536 \color@endgroup}\m@mmf@prepare}
12537 \newcommand{\@ThreeCollTRfootnotetext}[1]{%

```



```

12538 \bidi@step@absolutefootnote@count
12539 \bidi@reinsertfootnote\footinsv@r\@footstartv@r\@footgroupv@r
12540 \global\setbox\footinsv@l\vbox{%
12541 \unvbox\footinsv@l
12542 \@RTLfalse
12543 \def\baselinestretch{\m@m@footnote@spacing}%
12544 \reset@font\LTRfoottextfont
12545 \@preamfntext
12546 \protected@edef\@currentlabel{%
12547 \csname p@footnote\endcsname\@thefnmark}%
12548 \color@begingroup
12549 \@threecolLTRfootfmt{#1}%
12550 \color@endgroup}\m@mmf@prepare
12551 \bidi@reinsertfinalfootnoteperpage\footinsv@l\@footstartv@l\@LTRfootgroupv@l
12552 }
12553 \bidi@ensure@newcommand{\@threecolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
12554 \def\baselinestretch{\m@m@footnote@spacing}%
12555 \reset@font\RTLfoottextfont
12556 \@preamfntext
12557 \protected@edef\@currentlabel{%
12558 \csname p@footnote\endcsname\@thefnmark}%
12559 \color@begingroup
12560 \@threecolRTLfootfmt{#1}%
12561 \color@endgroup}\m@mmf@prepare}
12562 \newcommand{\@ThreeColRTLfootnotetext}[1]{%
12563 \bidi@step@absolutefootnote@count
12564 \bidi@reinsertfootnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l
12565 \global\setbox\footinsv@r\vbox{%
12566 \unvbox\footinsv@r
12567 \@RTLtrue
12568 \def\baselinestretch{\m@m@footnote@spacing}%
12569 \reset@font\RTLfoottextfont
12570 \@preamfntext
12571 \protected@edef\@currentlabel{%
12572 \csname p@footnote\endcsname\@thefnmark}%
12573 \color@begingroup
12574 \@threecolRTLfootfmt{#1}%
12575 \color@endgroup}\m@mmf@prepare
12576 \bidi@reinsertfinalfootnoteperpage\footinsv@r\@footstartv@r\@footgroupv@r
12577 }
12578 \bidi@ensure@newcommand{\@preamthreefmt}{%
12579 \hspace .3\hspace
12580 \parindent=\z@
12581 \tolerance=5000\relax
12582 \leavevmode}
12583 \bidi@ensure@newcommand{\@threecolfootfmt}[1]{%
12584 \@preamthreefmt
12585 {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
12586 \bidi@ensure@newcommand{\@threecolLTRfootfmt}[1]{%
12587 \@preamthreefmt
12588 {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
12589 \bidi@ensure@newcommand{\@threecolRTLfootfmt}[1]{%
12590 \@preamthreefmt
12591 {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}

```



```

12592 \bidi@ensure@newcommand{\@mpthreecolfootnotetext}[1]{%
12593   \global\setbox
12594     \if@RTL@footnote
12595     \@mpfootinsv@r
12596   \else
12597     \@mpfootinsv@l
12598   \fi
12599   \vbox{%
12600     \unvbox
12601     \if@RTL@footnote
12602     \@mpfootinsv@r
12603   \else
12604     \@mpfootinsv@l
12605   \fi
12606   \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
12607   \def\baselinestretch{\m@m@footnote@spacing}%
12608   \reset@font\foottextfont
12609   \hsize\columnwidth \@parboxrestore
12610   \protected@edef\@currentlabel{%
12611     \csname p@mpfootnote\endcsname\@thefnmark}%
12612   \color@begingroup
12613     \@threecolfootfmt{#1}%
12614   \color@endgroup}\m@mmf@prepare}
12615 \newcommand{\@mpThreeColfootnotetext}[1]{%
12616   \if@RTL@footnote
12617     \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
12618   \else
12619     \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
12620   \fi
12621   \global\setbox
12622     \if@RTL@footnote
12623     \@mpfootinsv@r
12624   \else
12625     \@mpfootinsv@l
12626   \fi
12627   \vbox{%
12628     \unvbox
12629     \if@RTL@footnote
12630     \@mpfootinsv@r
12631   \else
12632     \@mpfootinsv@l
12633   \fi
12634   \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
12635   \def\baselinestretch{\m@m@footnote@spacing}%
12636   \reset@font\foottextfont
12637   \hsize\columnwidth \@parboxrestore
12638   \protected@edef\@currentlabel{%
12639     \csname p@mpfootnote\endcsname\@thefnmark}%
12640   \color@begingroup
12641     \@threecolfootfmt{#1}%
12642   \color@endgroup}\m@mmf@prepare}
12643 \bidi@ensure@newcommand{\@mpthreecolLTRfootnotetext}[1]{%
12644   \global\setbox\@mpfootinsv@l\vbox{%
12645     \unvbox\@mpfootinsv@l

```



```

12646 \RTLfalse
12647 \def\baselinestretch{\m@m@footnote@spacing}%
12648 \reset@font\LTRfoottextfont
12649 \hsize\columnwidth \@parboxrestore
12650 \protected@edef\@currentlabel{%
12651 \csname p@mpfootnote\endcsname\@thefnmark}%
12652 \color@begingroup
12653 \@threecolLTRfootfmt{#1}%
12654 \color@endgroup}\m@mmf@prepare}
12655 \newcommand{\@mpThreeColLTRfootnotetext}[1]{%
12656 \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
12657 \global\setbox\@mpfootinsv@l\vbox{%
12658 \unvbox\@mpfootinsv@l
12659 \RTLfalse
12660 \def\baselinestretch{\m@m@footnote@spacing}%
12661 \reset@font\LTRfoottextfont
12662 \hsize\columnwidth \@parboxrestore
12663 \protected@edef\@currentlabel{%
12664 \csname p@mpfootnote\endcsname\@thefnmark}%
12665 \color@begingroup
12666 \@threecolLTRfootfmt{#1}%
12667 \color@endgroup}\m@mmf@prepare}
12668 \bidi@ensure@newcommand{\@mpthreecolRTLfootnotetext}[1]{%
12669 \global\setbox\@mpfootinsv@r\vbox{%
12670 \unvbox\@mpfootinsv@r
12671 \RTLtrue
12672 \def\baselinestretch{\m@m@footnote@spacing}%
12673 \reset@font\RTLfoottextfont
12674 \hsize\columnwidth \@parboxrestore
12675 \protected@edef\@currentlabel{%
12676 \csname p@mpfootnote\endcsname\@thefnmark}%
12677 \color@begingroup
12678 \@threecolRTLfootfmt{#1}%
12679 \color@endgroup}\m@mmf@prepare}
12680 \newcommand{\@mpThreeColRTLfootnotetext}[1]{%
12681 \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
12682 \global\setbox\@mpfootinsv@r\vbox{%
12683 \unvbox\@mpfootinsv@r
12684 \RTLtrue
12685 \def\baselinestretch{\m@m@footnote@spacing}%
12686 \reset@font\RTLfoottextfont
12687 \hsize\columnwidth \@parboxrestore
12688 \protected@edef\@currentlabel{%
12689 \csname p@mpfootnote\endcsname\@thefnmark}%
12690 \color@begingroup
12691 \@threecolRTLfootfmt{#1}%
12692 \color@endgroup}\m@mmf@prepare}
12693 \bidi@ensure@newcommand{\m@make@threecol@footgroup}[1]{%
12694 \@namedef{\@threecol@footgroup#1}{%
12695 \def\baselinestretch{\m@m@footnote@spacing}%
12696 \hsize\bidi@columnwidth
12697 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12698 \m@mrigidbalance{\@nameuse{footins#1}}{\thr@@}{\splittopskip}}
12699 \newcommand{\bidi@make@threecol@LTRfootgroup}[1]{%

```



```

12700 \@namedef{@threecol@LTRfootgroup#1}{%
12701 \def\baselinestretch{\m@footnote@spacing}%
12702 \hsize\bidicolumnwidth
12703 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12704 \bidi@LTRrigidbalance{\@nameuse{footins#1}}{\thr@@}{\splittopskip}}}}
12705 \bidi@ensure@newcommand{\m@make@mpthreecol@footgroup}[1]{%
12706 \@namedef{@mpthreecol@footgroup#1}{%
12707 \def\baselinestretch{\m@footnote@spacing}%
12708 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12709 \m@r rigidbalance{\@nameuse{mpfootins#1}}{\thr@@}{\splittopskip}}}}
12710 \newcommand{\bidi@make@mpthreecol@LTRfootgroup}[1]{%
12711 \@namedef{@mpthreecol@LTRfootgroup#1}{%
12712 \def\baselinestretch{\m@footnote@spacing}%
12713 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12714 \bidi@LTRrigidbalance{\@nameuse{mpfootins#1}}{\thr@@}{\splittopskip}}}}
12715 \bidi@ensure@newcommand{\fourcolumnfootnotes}{%
12716 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
12717 \@namedef{foottextfontv@l}{\LTRfoottextfont}%
12718 \@bidi@before@Hy@hyperfootnotes
12719 \let\@footnotetext\@fourcolfootnotetext
12720 \let\@LTRfootnotetext\@fourcolLTRfootnotetext
12721 \let\@RTLfootnotetext\@fourcolRTLfootnotetext
12722 \dimen\footinsv@r=4\footinsdim
12723 \count\footinsv@r=250\relax
12724 \m@make@fourcol@footgroup{v@r}%
12725 \let\@footgroupv@r\@fourcol@footgroupv@r
12726 \dimen\footinsv@l=4\footinsdim
12727 \count\footinsv@l=250\relax
12728 \bidi@make@fourcol@LTRfootgroup{v@l}%
12729 \let\@LTRfootgroupv@l\@fourcol@LTRfootgroupv@l
12730 \let\@mpfootnotetext\@mpfourcolfootnotetext
12731 \let\@mpLTRfootnotetext\@mpfourcolLTRfootnotetext
12732 \let\@mpRTLfootnotetext\@mpfourcolRTLfootnotetext
12733 \@bidi@after@Hy@hyperfootnotes
12734 \m@make@mpfourcol@footgroup{v@r}%
12735 \let\mp@footgroupv@r\@mpfourcol@footgroupv@r
12736 \bidi@make@mpfourcol@LTRfootgroup{v@l}%
12737 \let\mp@LTRfootgroupv@l\@mpfourcol@LTRfootgroupv@l
12738 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
12739 }
12740 \newcommand{\FourColumnFootnotes}{%
12741 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
12742 \@namedef{foottextfontv@l}{\LTRfoottextfont}%
12743 \@bidi@before@Hy@hyperfootnotes
12744 \let\@footnotetext\@FourColfootnotetext
12745 \let\@LTRfootnotetext\@FourColLTRfootnotetext
12746 \let\@RTLfootnotetext\@FourColRTLfootnotetext
12747 \dimen\footinsv@r=4\footinsdim
12748 \count\footinsv@r=250\relax
12749 \m@make@fourcol@footgroup{v@r}%
12750 \let\@footgroupv@r\@fourcol@footgroupv@r
12751 \dimen\footinsv@l=4\footinsdim
12752 \count\footinsv@l=250\relax
12753 \bidi@make@fourcol@LTRfootgroup{v@l}%

```



```

12754 \let\@LTRfootgroupv@l\@fourcol@LTRfootgroupv@l
12755 \let\@mpfootnotetext\@mpFourColfootnotetext
12756 \let\@mpLTRfootnotetext\@mpFourColLTRfootnotetext
12757 \let\@mpRTLfootnotetext\@mpFourColRTLfootnotetext
12758 \@bidi@after@Hy@hyperfootnotes
12759 \m@make@mpfourcol@footgroup{v@r}%
12760 \let\mp@footgroupv@r\@mpfourcol@footgroupv@r
12761 \bidi@make@mpfourcol@LTRfootgroup{v@l}%
12762 \let\mp@LTRfootgroupv@l\@mpfourcol@LTRfootgroupv@l
12763 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
12764 }
12765 \bidi@ensure@newcommand{\@fourcolfootnotetext}[1]{\insert
12766   \ifRTL@footnote
12767     \footinsv@r
12768   \else
12769     \footinsv@l
12770   \fi
12771 {\ifRTL@footnote\@RTLtrue\else\@RTLfalse\fi%
12772 \def\baselinestretch{\m@footnote@spacing}%
12773 \reset@font\foottextfont
12774 \@preamfntext
12775 \protected@edef\@currentlabel{%
12776   \csname p@footnote\endcsname\@thefnmark}%
12777 \color@begingroup
12778   \@fourcolfootfmt{#1}%
12779 \color@endgroup}%
12780 \m@mmf@prepare}
12781 \newcommand{\@FourColfootnotetext}[1]{%
12782 \bidi@step@absolute@footnote@count
12783 \ifRTL@footnote
12784   \bidi@reinsertfootnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l
12785 \else
12786   \bidi@reinsertfootnote\footinsv@r\@footstartv@r\@footgroupv@r
12787 \fi
12788 \global\setbox
12789 \ifRTL@footnote
12790   \footinsv@r
12791 \else
12792   \footinsv@l
12793 \fi
12794 \vbox{%
12795 \unvbox
12796 \ifRTL@footnote
12797   \footinsv@r
12798 \else
12799   \footinsv@l
12800 \fi
12801 \ifRTL@footnote\@RTLtrue\else\@RTLfalse\fi
12802 \def\baselinestretch{\m@footnote@spacing}%
12803 \reset@font\foottextfont
12804 \@preamfntext
12805 \protected@edef\@currentlabel{%
12806   \csname p@footnote\endcsname\@thefnmark}%
12807 \color@begingroup

```



```

12808   \@fourcolfootfmt{#1}%
12809 \color@endgroup}%
12810 \m@mmf@prepare
12811 \if@RTL@footnote
12812   \bidi@reinsertfinalfootnoteperpage\footinsv@r\@footstartv@r\@footgroupv@r
12813 \else
12814   \bidi@reinsertfinalfootnoteperpage\footinsv@l\@footstartv@l\@LTRfootgroupv@l
12815 \fi
12816 }
12817 \bidi@ensure@newcommand{\@fourcolLTRfootnotetext}[1]{\insert\footinsv@l{\@RTLfalse%
12818 \def\baselinestretch{\m@mm@footnote@spacing}%
12819 \reset@font\LTRfoottextfont
12820 \@preamfntext
12821 \protected@edef\@currentlabel{%
12822   \csname p@footnote\endcsname\@thefnmark}%
12823 \color@begingroup
12824   \@fourcolLTRfootfmt{#1}%
12825 \color@endgroup}%
12826 \m@mmf@prepare}
12827 \newcommand{\@FourColLTRfootnotetext}[1]{%
12828 \bidi@step@absolute@footnote@count
12829 \bidi@reinsertfootnote\footinsv@r\@footstartv@r\@footgroupv@r
12830 \global\setbox\footinsv@l\vbox{%
12831 \unvbox\footinsv@l
12832 \@RTLfalse%
12833 \def\baselinestretch{\m@mm@footnote@spacing}%
12834 \reset@font\LTRfoottextfont
12835 \@preamfntext
12836 \protected@edef\@currentlabel{%
12837   \csname p@footnote\endcsname\@thefnmark}%
12838 \color@begingroup
12839   \@fourcolLTRfootfmt{#1}%
12840 \color@endgroup}%
12841 \m@mmf@prepare
12842 \bidi@reinsertfinalfootnoteperpage\footinsv@l\@footstartv@l\@LTRfootgroupv@l
12843 }
12844 \bidi@ensure@newcommand{\@fourcolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
12845 \def\baselinestretch{\m@mm@footnote@spacing}%
12846 \reset@font\RTLfoottextfont
12847 \@preamfntext
12848 \protected@edef\@currentlabel{%
12849   \csname p@footnote\endcsname\@thefnmark}%
12850 \color@begingroup
12851   \@fourcolRTLfootfmt{#1}%
12852 \color@endgroup}%
12853 \m@mmf@prepare}
12854 \newcommand{\@FourColRTLfootnotetext}[1]{%
12855 \bidi@step@absolute@footnote@count
12856 \bidi@reinsertfootnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l
12857 \global\setbox\footinsv@r\vbox{%
12858 \unvbox\footinsv@r
12859 \@RTLtrue
12860 \def\baselinestretch{\m@mm@footnote@spacing}%
12861 \reset@font\RTLfoottextfont

```





```

12862 \@preamfntext
12863 \protected@edef\@currentlabel{%
12864   \csname p@footnote\endcsname\@thefnmark}%
12865 \color@begingroup
12866   \@fourcolRTLfootfmt{#1}%
12867 \color@endgroup}%
12868 \m@mmf@prepare
12869 \bidi@reinsertfinalfootnoteperpage\footinsv@r\@footstartv@r\@footgroupv@r
12870 }
12871 \bidi@ensure@newcommand{\@preamfourfmt}{%
12872   \hspace .25\hspace
12873   \parindent=\z@
12874   \tolerance=5000\relax
12875   \leavevmode}
12876 \bidi@ensure@newcommand{\@fourcolfootfmt}[1]{%
12877   \@preamfourfmt
12878   {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
12879 \bidi@ensure@newcommand{\@fourcolLTRfootfmt}[1]{%
12880   \@preamfourfmt
12881   {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
12882 \bidi@ensure@newcommand{\@fourcolRTLfootfmt}[1]{%
12883   \@preamfourfmt
12884   {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
12885 \bidi@ensure@newcommand{\@mpfourcolfootnotetext}[1]{%
12886   \global\setbox
12887     \if@RTL@footnote
12888     \@mpfootinsv@r
12889   \else
12890     \@mpfootinsv@l
12891   \fi
12892   \vbox{%
12893     \unvbox
12894     \if@RTL@footnote
12895     \@mpfootinsv@r
12896   \else
12897     \@mpfootinsv@l
12898   \fi
12899   \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
12900   \def\baselinestretch{\m@m@footnote@spacing}%
12901   \reset@font\foottextfont
12902   \hspace\columnwidth \@parboxrestore
12903   \protected@edef\@currentlabel{%
12904     \csname p@mpfootnote\endcsname\@thefnmark}%
12905   \color@begingroup
12906     \@fourcolfootfmt{#1}%
12907   \color@endgroup}%
12908   \m@mmf@prepare}
12909 \newcommand{\@mpFourColfootnotetext}[1]{%
12910   \if@RTL@footnote
12911     \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
12912   \else
12913     \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
12914   \fi
12915   \global\setbox

```



```

12916 \if@RTL@footnote
12917 \@mpfootinsv@r
12918 \else
12919 \@mpfootinsv@l
12920 \fi
12921 \vbox{%
12922 \unvbox
12923 \if@RTL@footnote
12924 \@mpfootinsv@r
12925 \else
12926 \@mpfootinsv@l
12927 \fi
12928 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
12929 \def\baselinestretch{\m@m@footnote@spacing}%
12930 \reset@font\foottextfont
12931 \hsize\columnwidth \@parboxrestore
12932 \protected@edef\@currentlabel{%
12933 \csname p@mpfootnote\endcsname\@thefnmark}%
12934 \color@begingroup
12935 \@fourcolfootfmt{#1}%
12936 \color@endgroup}%
12937 \m@mmf@prepare}
12938 \bidi@ensure@newcommand{\@mpfourcolLTRfootnotetext}[1]{%
12939 \global\setbox\@mpfootinsv@l\vbox{%
12940 \unvbox\@mpfootinsv@l
12941 \@RTLfalse
12942 \def\baselinestretch{\m@m@footnote@spacing}%
12943 \reset@font\LTRfoottextfont
12944 \hsize\columnwidth \@parboxrestore
12945 \protected@edef\@currentlabel{%
12946 \csname p@mpfootnote\endcsname\@thefnmark}%
12947 \color@begingroup
12948 \@fourcolLTRfootfmt{#1}%
12949 \color@endgroup}%
12950 \m@mmf@prepare}
12951 \newcommand{\@mpFourColLTRfootnotetext}[1]{%
12952 \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
12953 \global\setbox\@mpfootinsv@l\vbox{%
12954 \unvbox\@mpfootinsv@l
12955 \@RTLfalse
12956 \def\baselinestretch{\m@m@footnote@spacing}%
12957 \reset@font\LTRfoottextfont
12958 \hsize\columnwidth \@parboxrestore
12959 \protected@edef\@currentlabel{%
12960 \csname p@mpfootnote\endcsname\@thefnmark}%
12961 \color@begingroup
12962 \@fourcolLTRfootfmt{#1}%
12963 \color@endgroup}%
12964 \m@mmf@prepare}
12965 \bidi@ensure@newcommand{\@mpfourcolRTLfootnotetext}[1]{%
12966 \global\setbox\@mpfootinsv@r\vbox{%
12967 \unvbox\@mpfootinsv@r
12968 \@RTLtrue
12969 \def\baselinestretch{\m@m@footnote@spacing}%

```



```

12970 \reset@font\RTLfoottextfont
12971 \hsize\columnwidth \@parboxrestore
12972 \protected@edef\@currentlabel{%
12973 \csname p@mpfootnote\endcsname\@thefnmark}%
12974 \color@begingroup
12975 \@fourcolRTLfootfmt{#1}%
12976 \color@endgroup}%
12977 \m@mmf@prepare}
12978 \newcommand{\@mpFourColRTLfootnotetext}[1]{%
12979 \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
12980 \global\setbox\@mpfootinsv@r\vbox{%
12981 \unvbox\@mpfootinsv@r
12982 \@RTLtrue
12983 \def\baselinestretch{\m@m@footnote@spacing}%
12984 \reset@font\RTLfoottextfont
12985 \hsize\columnwidth \@parboxrestore
12986 \protected@edef\@currentlabel{%
12987 \csname p@mpfootnote\endcsname\@thefnmark}%
12988 \color@begingroup
12989 \@fourcolRTLfootfmt{#1}%
12990 \color@endgroup}%
12991 \m@mmf@prepare}
12992 \bidi@ensure@newcommand{\m@make@fourcol@footgroup}[1]{%
12993 \@namedef{\@fourcol@footgroup#1}{%
12994 \def\baselinestretch{\m@m@footnote@spacing}%
12995 \hsize\columnwidth
12996 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12997 \m@r rigidbalance{\@nameuse{footins#1}}{4}{\splittopskip}}}}
12998 \newcommand{\bidi@make@fourcol@LTRfootgroup}[1]{%
12999 \@namedef{\@fourcol@LTRfootgroup#1}{%
13000 \def\baselinestretch{\m@m@footnote@spacing}%
13001 \hsize\bidi@columnwidth
13002 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13003 \bidi@LTR rigidbalance{\@nameuse{footins#1}}{4}{\splittopskip}}}}
13004 \bidi@ensure@newcommand{\m@make@mpfourcol@footgroup}[1]{%
13005 \@namedef{\@mpfourcol@footgroup#1}{%
13006 \def\baselinestretch{\m@m@footnote@spacing}%
13007 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13008 \m@r rigidbalance{\@nameuse{\@mpfootins#1}}{4}{\splittopskip}}}}
13009 \newcommand{\bidi@make@mpfourcol@LTRfootgroup}[1]{%
13010 \@namedef{\@mpfourcol@LTRfootgroup#1}{%
13011 \def\baselinestretch{\m@m@footnote@spacing}%
13012 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13013 \bidi@LTR rigidbalance{\@nameuse{\@mpfootins#1}}{4}{\splittopskip}}}}
13014 \bidi@ensure@newcommand{\@fivecolumnfootnotes}{%
13015 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
13016 \@namedef{foottextfontv@l}{\LTRfoottextfont}%
13017 \@bidi@before@Hy@hyperfootnotes
13018 \let\@footnotetext\@fivecolfootnotetext
13019 \let\@LTRfootnotetext\@fivecolLTRfootnotetext
13020 \let\@RTLfootnotetext\@fivecolRTLfootnotetext
13021 \dimen\footinsv@r=5\footinsdim
13022 \count\footinsv@r=200\relax
13023 \m@make@fivecol@footgroup{v@r}%

```



```

13024 \let\@footgroupv@r\@fivecol@footgroupv@r
13025 \dimen\footinsv@l=5\footinsdim
13026 \count\footinsv@l=200\relax
13027 \bidi@make@fivecol@LTRfootgroup{v@l}%
13028 \let\@LTRfootgroupv@l\@fivecol@LTRfootgroupv@l
13029 \let\@mpfootnotetext\@mpfivecolfootnotetext
13030 \let\@mpLTRfootnotetext\@mpfivecolLTRfootnotetext
13031 \let\@mpRTLfootnotetext\@mpfivecolRTLfootnotetext
13032 \@bidi@after@Hy@hyperfootnotes
13033 \m@make@mpfivecol@footgroup{v@r}%
13034 \let\mp@footgroupv@r\@mpfivecol@footgroupv@r
13035 \bidi@make@mpfivecol@LTRfootgroup{v@l}%
13036 \let\mp@LTRfootgroupv@l\@mpfivecol@LTRfootgroupv@l
13037 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
13038 }
13039 \newcommand{\FiveColumnFootnotes}{%
13040 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
13041 \@namedef{foottextfontv@l}{\LTRfoottextfont}%
13042 \@bidi@before@Hy@hyperfootnotes
13043 \let\@footnotetext\@FiveColfootnotetext
13044 \let\@LTRfootnotetext\@FiveCollLTRfootnotetext
13045 \let\@RTLfootnotetext\@FiveColRTLfootnotetext
13046 \dimen\footinsv@r=5\footinsdim
13047 \count\footinsv@r=200\relax
13048 \m@make@fivecol@footgroup{v@r}%
13049 \let\@footgroupv@r\@fivecol@footgroupv@r
13050 \dimen\footinsv@l=5\footinsdim
13051 \count\footinsv@l=200\relax
13052 \bidi@make@fivecol@LTRfootgroup{v@l}%
13053 \let\@LTRfootgroupv@l\@fivecol@LTRfootgroupv@l
13054 \let\@mpfootnotetext\@mpFiveColfootnotetext
13055 \let\@mpLTRfootnotetext\@mpFiveCollLTRfootnotetext
13056 \let\@mpRTLfootnotetext\@mpFiveColRTLfootnotetext
13057 \@bidi@after@Hy@hyperfootnotes
13058 \m@make@mpfivecol@footgroup{v@r}%
13059 \let\mp@footgroupv@r\@mpfivecol@footgroupv@r
13060 \bidi@make@mpfivecol@LTRfootgroup{v@l}%
13061 \let\mp@LTRfootgroupv@l\@mpfivecol@LTRfootgroupv@l
13062 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
13063 }
13064 \bidi@ensure@newcommand{\@fivecolfootnotetext}[1]{\insert
13065 \if@RTL@footnote
13066 \footinsv@r
13067 \else
13068 \footinsv@l
13069 \fi
13070 {\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
13071 \def\baselinestretch{\m@f@footnote@spacing}%
13072 \reset@font\foottextfont
13073 \@preamfntext
13074 \protected@edef\@currentlabel{%
13075 \csname p@footnote\endcsname\@thefnmark}%
13076 \color@begingroup
13077 \@fivecolfootfmt{#1}%

```



```

13078 \color@endgroup}%
13079 \m@mmf@prepare}
13080 \newcommand{\@FiveColfootnotetext}[1]{%
13081 \bidi@step@absolute@footnote@count
13082 \if@RTL@footnote
13083 \bidi@reinsertfootnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l
13084 \else
13085 \bidi@reinsertfootnote\footinsv@r\@footstartv@r\@footgroupv@r
13086 \fi
13087 \global\setbox
13088 \if@RTL@footnote
13089 \footinsv@r
13090 \else
13091 \footinsv@l
13092 \fi
13093 \vbox{%
13094 \unvbox
13095 \if@RTL@footnote
13096 \footinsv@r
13097 \else
13098 \footinsv@l
13099 \fi
13100 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
13101 \def\baselinestretch{\m@mm@footnote@spacing}%
13102 \reset@font\foottextfont
13103 \@preamftext
13104 \protected@edef\@currentlabel{%
13105 \csname p@footnote\endcsname\@thefnmark}%
13106 \color@begingroup
13107 \@fivecolfootfmt{#1}%
13108 \color@endgroup}%
13109 \m@mmf@prepare
13110 \if@RTL@footnote
13111 \bidi@reinsertfinalfootnoteperpage\footinsv@r\@footstartv@r\@footgroupv@r
13112 \else
13113 \bidi@reinsertfinalfootnoteperpage\footinsv@l\@footstartv@l\@LTRfootgroupv@l
13114 \fi
13115 }
13116 \bidi@ensure@newcommand{\@FiveColLTRfootnotetext}[1]{\insert\footinsv@l{\@RTLfalse%
13117 \def\baselinestretch{\m@mm@footnote@spacing}%
13118 \reset@font\LTRfoottextfont
13119 \@preamftext
13120 \protected@edef\@currentlabel{%
13121 \csname p@footnote\endcsname\@thefnmark}%
13122 \color@begingroup
13123 \@fivecolLTRfootfmt{#1}%
13124 \color@endgroup}%
13125 \m@mmf@prepare}
13126 \newcommand{\@FiveColLTRfootnotetext}[1]{%
13127 \bidi@step@absolute@footnote@count
13128 \bidi@reinsertfootnote\footinsv@r\@footstartv@r\@footgroupv@r
13129 \global\setbox\footinsv@l\vbox{%
13130 \unvbox\footinsv@l
13131 \@RTLfalse

```



```

13132 \def\baselinestretch{\m@m@footnote@spacing}%
13133 \reset@font\LTRfoottextfont
13134 \@preamfntext
13135 \protected@edef\@currentlabel{%
13136   \csname p@footnote\endcsname\@thefnmark}%
13137 \color@begingroup
13138   \@fivecolLTRfootfmt{#1}%
13139 \color@endgroup}%
13140 \m@mmf@prepare
13141 \bidi@reinsertfinalfootnoteperpage\footinsv@l\@footstartv@l\@LTRfootgroupv@l
13142 }
13143 \bidi@ensure@newcommand{\@fivecolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
13144 \def\baselinestretch{\m@m@footnote@spacing}%
13145 \reset@font\RTLfoottextfont
13146 \@preamfntext
13147 \protected@edef\@currentlabel{%
13148   \csname p@footnote\endcsname\@thefnmark}%
13149 \color@begingroup
13150   \@fivecolRTLfootfmt{#1}%
13151 \color@endgroup}%
13152 \m@mmf@prepare}
13153 \newcommand{\@FiveColRTLfootnotetext}[1]{%
13154 \bidi@step@absolutefootnote@count
13155 \bidi@reinsertfootnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l
13156 \global\setbox\footinsv@r\vbox{%
13157 \unvbox\footinsv@r
13158 \@RTLtrue
13159 \def\baselinestretch{\m@m@footnote@spacing}%
13160 \reset@font\RTLfoottextfont
13161 \@preamfntext
13162 \protected@edef\@currentlabel{%
13163   \csname p@footnote\endcsname\@thefnmark}%
13164 \color@begingroup
13165   \@fivecolRTLfootfmt{#1}%
13166 \color@endgroup}%
13167 \m@mmf@prepare
13168 \bidi@reinsertfinalfootnoteperpage\footinsv@r\@footstartv@r\@footgroupv@r
13169 }
13170 \bidi@ensure@newcommand{\@preamfivefmt}{%
13171 \hspace .2\hspace
13172 \parindent=\z@
13173 \tolerance=5000\relax
13174 \leavevmode}
13175 \bidi@ensure@newcommand{\@fivecolfootfmt}[1]{%
13176 \@preamfivefmt
13177 {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
13178 \bidi@ensure@newcommand{\@fivecolLTRfootfmt}[1]{%
13179 \@preamfivefmt
13180 {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
13181 \bidi@ensure@newcommand{\@fivecolRTLfootfmt}[1]{%
13182 \@preamfivefmt
13183 {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
13184 \bidi@ensure@newcommand{\@mpfivecolfootnotetext}[1]{%
13185 \global\setbox

```



```

13186 \ifRTL@footnote
13187 \@mpfootinsv@r
13188 \else
13189 \@mpfootinsv@l
13190 \fi
13191 \vbox{%
13192 \unvbox
13193 \ifRTL@footnote
13194 \@mpfootinsv@r
13195 \else
13196 \@mpfootinsv@l
13197 \fi
13198 \ifRTL@footnote\@RTLtrue\else\@RTLfalse\fi
13199 \def\baselinestretch{\m@m@footnote@spacing}%
13200 \reset@font\foottextfont
13201 \hsize\columnwidth \@parboxrestore
13202 \protected@edef\@currentlabel{%
13203 \csname p@mpfootnote\endcsname\@thefnmark}%
13204 \color@begingroup
13205 \@fivecolfootfmt{#1}%
13206 \color@endgroup}%
13207 \m@mmf@prepare}
13208 \newcommand{\@mpFiveColfootnotetext}[1]{%
13209 \ifRTL@footnote
13210 \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
13211 \else
13212 \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
13213 \fi
13214 \global\setbox
13215 \ifRTL@footnote
13216 \@mpfootinsv@r
13217 \else
13218 \@mpfootinsv@l
13219 \fi
13220 \vbox{%
13221 \unvbox
13222 \ifRTL@footnote
13223 \@mpfootinsv@r
13224 \else
13225 \@mpfootinsv@l
13226 \fi
13227 \ifRTL@footnote\@RTLtrue\else\@RTLfalse\fi
13228 \def\baselinestretch{\m@m@footnote@spacing}%
13229 \reset@font\foottextfont
13230 \hsize\columnwidth \@parboxrestore
13231 \protected@edef\@currentlabel{%
13232 \csname p@mpfootnote\endcsname\@thefnmark}%
13233 \color@begingroup
13234 \@fivecolfootfmt{#1}%
13235 \color@endgroup}%
13236 \m@mmf@prepare}
13237 \bidi@ensure@newcommand{\@mpfivecolLTRfootnotetext}[1]{%
13238 \global\setbox\@mpfootinsv@l\vbox{%
13239 \unvbox\@mpfootinsv@l

```



```

13240 \RTLfalse
13241 \def\baselinestretch{\m@m@footnote@spacing}%
13242 \reset@font\LTRfoottextfont
13243 \hsize\columnwidth \@parboxrestore
13244 \protected@edef\@currentlabel{%
13245 \csname p@mpfootnote\endcsname\@thefnmark}%
13246 \color@begingroup
13247 \@fivecolLTRfootfmt{#1}%
13248 \color@endgroup}%
13249 \m@mmf@prepare}
13250 \newcommand{\@mpFiveCollTRfootnotetext}[1]{%
13251 \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
13252 \global\setbox\@mpfootinsv@l\vbox{%
13253 \unvbox\@mpfootinsv@l
13254 \RTLfalse
13255 \def\baselinestretch{\m@m@footnote@spacing}%
13256 \reset@font\LTRfoottextfont
13257 \hsize\columnwidth \@parboxrestore
13258 \protected@edef\@currentlabel{%
13259 \csname p@mpfootnote\endcsname\@thefnmark}%
13260 \color@begingroup
13261 \@fivecolLTRfootfmt{#1}%
13262 \color@endgroup}%
13263 \m@mmf@prepare}
13264 \bidi@ensure@newcommand{\@mpfivecolRTLfootnotetext}[1]{%
13265 \global\setbox\@mpfootinsv@r\vbox{%
13266 \unvbox\@mpfootinsv@r
13267 \RTLtrue
13268 \def\baselinestretch{\m@m@footnote@spacing}%
13269 \reset@font\RTLfoottextfont
13270 \hsize\columnwidth \@parboxrestore
13271 \protected@edef\@currentlabel{%
13272 \csname p@mpfootnote\endcsname\@thefnmark}%
13273 \color@begingroup
13274 \@fivecolRTLfootfmt{#1}%
13275 \color@endgroup}%
13276 \m@mmf@prepare}
13277 \newcommand{\@mpFiveColRTLfootnotetext}[1]{%
13278 \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
13279 \global\setbox\@mpfootinsv@r\vbox{%
13280 \unvbox\@mpfootinsv@r
13281 \RTLtrue
13282 \def\baselinestretch{\m@m@footnote@spacing}%
13283 \reset@font\RTLfoottextfont
13284 \hsize\columnwidth \@parboxrestore
13285 \protected@edef\@currentlabel{%
13286 \csname p@mpfootnote\endcsname\@thefnmark}%
13287 \color@begingroup
13288 \@fivecolRTLfootfmt{#1}%
13289 \color@endgroup}%
13290 \m@mmf@prepare}
13291 \bidi@ensure@newcommand{\m@make@fivecol@footgroup}[1]{%
13292 \@namedef{@fivecol@footgroup#1}{%
13293 \def\baselinestretch{\m@m@footnote@spacing}%

```





```

13294 \hsize\bidicolumnwidth
13295 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13296 \m@mrigidbalance{\@nameuse{footins#1}}{5}{\splittopskip}}
13297 \newcommand{\bidi@make@fivecol@LTRfootgroup}[1]{%
13298 \@namedef{@fivecol@LTRfootgroup#1}{%
13299 \def\baselinestretch{\m@m@footnote@spacing}%
13300 \hsize\bidicolumnwidth
13301 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13302 \bidi@LTRrigidbalance{\@nameuse{footins#1}}{5}{\splittopskip}}}}
13303 \bidi@ensure@newcommand{\m@make@mpfivecol@footgroup}[1]{%
13304 \@namedef{@mpfivecol@footgroup#1}{%
13305 \def\baselinestretch{\m@m@footnote@spacing}%
13306 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13307 \m@mrigidbalance{\@nameuse{@mpfootins#1}}{5}{\splittopskip}}}}
13308 \newcommand{\bidi@make@mpfivecol@LTRfootgroup}[1]{%
13309 \@namedef{@mpfivecol@LTRfootgroup#1}{%
13310 \def\baselinestretch{\m@m@footnote@spacing}%
13311 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13312 \bidi@LTRrigidbalance{\@nameuse{@mpfootins#1}}{5}{\splittopskip}}}}
13313 \bidi@ensure@newcommand{\sixcolumnfootnotes}{%
13314 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
13315 \@namedef{foottextfontv@l}{\LTRfoottextfont}%
13316 \@bidi@before@Hy@hyperfootnotes
13317 \let@footnotetext@sixcolfootnotetext
13318 \let@LTRfootnotetext@sixcolLTRfootnotetext
13319 \let@RTLfootnotetext@sixcolRTLfootnotetext
13320 \dimen\footinsv@r=6\footinsdim
13321 \count\footinsv@r=166\relax
13322 \m@make@sixcol@footgroup{v@r}%
13323 \let@footgroupv@r@sixcol@footgroupv@r
13324 \dimen\footinsv@l=6\footinsdim
13325 \count\footinsv@l=166\relax
13326 \bidi@make@sixcol@LTRfootgroup{v@l}%
13327 \let@LTRfootgroupv@l@sixcol@LTRfootgroupv@l
13328 \let@mpfootnotetext@mpsixcolfootnotetext
13329 \let@mpLTRfootnotetext@mpsixcolLTRfootnotetext
13330 \let@mpRTLfootnotetext@mpsixcolRTLfootnotetext
13331 \@bidi@after@Hy@hyperfootnotes
13332 \m@make@mpsixcol@footgroup{v@r}%
13333 \let@mp@footgroupv@r@mpsixcol@footgroupv@r
13334 \bidi@make@mpsixcol@LTRfootgroup{v@l}%
13335 \let@mp@LTRfootgroupv@l@mpsixcol@LTRfootgroupv@l
13336 \ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
13337 }
13338 \newcommand{\SixColumnFootnotes}{%
13339 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
13340 \@namedef{foottextfontv@l}{\LTRfoottextfont}%
13341 \@bidi@before@Hy@hyperfootnotes
13342 \let@footnotetext@SixColfootnotetext
13343 \let@LTRfootnotetext@SixColLTRfootnotetext
13344 \let@RTLfootnotetext@SixColRTLfootnotetext
13345 \dimen\footinsv@r=6\footinsdim
13346 \count\footinsv@r=166\relax
13347 \m@make@sixcol@footgroup{v@r}%

```



```

13348 \let\@footgroupv@r\@sixcol@footgroupv@r
13349 \dimen\footinsv@l=6\footinsdim
13350 \count\footinsv@l=166\relax
13351 \bidi@make@sixcol@LTRfootgroup{v@l}%
13352 \let\@LTRfootgroupv@l\@sixcol@LTRfootgroupv@l
13353 \let\@mpfootnotetext\@mpSixColfootnotetext
13354 \let\@mpLTRfootnotetext\@mpSixColLTRfootnotetext
13355 \let\@mpRTLfootnotetext\@mpSixColRTLfootnotetext
13356 \@bidi@after@Hy@hyperfootnotes
13357 \m@make@mpsixcol@footgroup{v@r}%
13358 \let\mp@footgroupv@r\@mpsixcol@footgroupv@r
13359 \bidi@make@mpsixcol@LTRfootgroup{v@l}%
13360 \let\mp@LTRfootgroupv@l\@mpsixcol@LTRfootgroupv@l
13361 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
13362 }
13363 \bidi@ensure@newcommand{\@sixcolfootnotetext}[1]{\insert
13364 \ifRTL@footnote
13365 \footinsv@r
13366 \else
13367 \footinsv@l
13368 \fi
13369 {\ifRTL@footnote\@RTLtrue\else\@RTLfalse\fi%
13370 \def\baselinestretch{\m@footnote@spacing}%
13371 \reset@font\foottextfont
13372 \@preamfntext
13373 \protected@edef\@currentlabel{%
13374 \csname p@footnote\endcsname\@thefnmark}%
13375 \color@begingroup
13376 \@sixcolfootfmt{#1}%
13377 \color@endgroup}%
13378 \m@mmf@prepare}
13379 \newcommand{\@SixColfootnotetext}[1]{%
13380 \bidi@step@absolute@footnote@count
13381 \ifRTL@footnote
13382 \bidi@reinsertfootnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l
13383 \else
13384 \bidi@reinsertfootnote\footinsv@r\@footstartv@r\@footgroupv@r
13385 \fi
13386 \global\setbox
13387 \ifRTL@footnote
13388 \footinsv@r
13389 \else
13390 \footinsv@l
13391 \fi
13392 \vbox{%
13393 \unvbox
13394 \ifRTL@footnote
13395 \footinsv@r
13396 \else
13397 \footinsv@l
13398 \fi
13399 \ifRTL@footnote\@RTLtrue\else\@RTLfalse\fi%
13400 \def\baselinestretch{\m@footnote@spacing}%
13401 \reset@font\foottextfont

```



```

13402 \@preamfntext
13403 \protected@edef\@currentlabel{%
13404   \csname p@footnote\endcsname\@thefnmark}%
13405 \color@begingroup
13406   \@sixcolfootfmt{#1}%
13407 \color@endgroup}%
13408 \m@mmf@prepare
13409 \if@RTL@footnote
13410   \bidi@reinsertfinalfootnoteperpage\footinsv@r\@footstartv@r\@footgroupv@r
13411 \else
13412   \bidi@reinsertfinalfootnoteperpage\footinsv@l\@footstartv@l\@LTRfootgroupv@l
13413 \fi
13414 }
13415 \bidi@ensure@newcommand{\@sixcolLTRfootnotetext}[1]{\insert\footinsv@l{\@RTLfalse%
13416 \def\baselinestretch{\m@mm@footnote@spacing}%
13417 \reset@font\LTRfoottextfont
13418 \@preamfntext
13419 \protected@edef\@currentlabel{%
13420   \csname p@footnote\endcsname\@thefnmark}%
13421 \color@begingroup
13422   \@sixcolLTRfootfmt{#1}%
13423 \color@endgroup}%
13424 \m@mmf@prepare}
13425 \newcommand{\@SixColLTRfootnotetext}[1]{%
13426 \bidi@step@absolute@footnote@count
13427 \bidi@reinsertfootnote\footinsv@r\@footstartv@r\@footgroupv@r
13428 \global\setbox\footinsv@l\vbox{%
13429 \unvbox\footinsv@l
13430 \@RTLfalse
13431 \def\baselinestretch{\m@mm@footnote@spacing}%
13432 \reset@font\LTRfoottextfont
13433 \@preamfntext
13434 \protected@edef\@currentlabel{%
13435   \csname p@footnote\endcsname\@thefnmark}%
13436 \color@begingroup
13437   \@sixcolLTRfootfmt{#1}%
13438 \color@endgroup}%
13439 \m@mmf@prepare
13440 \bidi@reinsertfinalfootnoteperpage\footinsv@l\@footstartv@l\@LTRfootgroupv@l
13441 }
13442 \bidi@ensure@newcommand{\@sixcolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
13443 \def\baselinestretch{\m@mm@footnote@spacing}%
13444 \reset@font\RTLfoottextfont
13445 \@preamfntext
13446 \protected@edef\@currentlabel{%
13447   \csname p@footnote\endcsname\@thefnmark}%
13448 \color@begingroup
13449   \@sixcolRTLfootfmt{#1}%
13450 \color@endgroup}%
13451 \m@mmf@prepare}
13452 \newcommand{\@SixColRTLfootnotetext}[1]{%
13453 \bidi@step@absolute@footnote@count
13454 \bidi@reinsertfootnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l
13455 \global\setbox\footinsv@r\vbox{%

```



```

13456 \unvbox\footinsv@r
13457 \@RTLtrue
13458 \def\baselinestretch{\m@m@footnote@spacing}%
13459 \reset@font\RTLfoottextfont
13460 \@preamftext
13461 \protected@edef\@currentlabel{%
13462   \csname p@footnote\endcsname\@thefnmark}%
13463 \color@begingroup
13464   \@sixcolRTLfootfmt{#1}%
13465 \color@endgroup}%
13466 \m@mmf@prepare
13467 \bidi@reinsertfinalfootnoteperpage\footinsv@r\@footstartv@r\@footgroupv@r
13468 }
13469 \bidi@ensure@newcommand{\@preamsixfmt}{%
13470   \hspace .16\hspace
13471   \parindent=\z@
13472   \tolerance=5000\relax
13473   \leavevmode}
13474 \bidi@ensure@newcommand{\@sixcolfootfmt}[1]{%
13475   \@preamsixfmt
13476   {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
13477 \bidi@ensure@newcommand{\@sixcolLTRfootfmt}[1]{%
13478   \@preamsixfmt
13479   {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
13480 \bidi@ensure@newcommand{\@sixcolRTLfootfmt}[1]{%
13481   \@preamsixfmt
13482   {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
13483 \bidi@ensure@newcommand{\@mpsixcolfootnotetext}[1]{%
13484   \global\setbox
13485     \if@RTL@footnote
13486     \@mpfootinsv@r
13487   \else
13488     \@mpfootinsv@l
13489   \fi
13490   \vbox{%
13491     \unvbox
13492     \if@RTL@footnote
13493     \@mpfootinsv@r
13494   \else
13495     \@mpfootinsv@l
13496   \fi
13497   \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
13498   \def\baselinestretch{\m@m@footnote@spacing}%
13499   \reset@font\foottextfont
13500   \hspace\columnwidth \@parboxrestore
13501   \protected@edef\@currentlabel{%
13502     \csname p@mpfootnote\endcsname\@thefnmark}%
13503   \color@begingroup
13504     \@sixcolfootfmt{#1}%
13505   \color@endgroup}%
13506   \m@mmf@prepare}
13507 \newcommand{\@mpSixColfootnotetext}[1]{%
13508   \if@RTL@footnote
13509   \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l

```



```

13510 \else
13511   \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
13512 \fi
13513 \global\setbox
13514   \if@RTL@footnote
13515   \@mpfootinsv@r
13516 \else
13517   \@mpfootinsv@l
13518 \fi
13519 \vbox{%
13520   \unvbox
13521   \if@RTL@footnote
13522   \@mpfootinsv@r
13523 \else
13524   \@mpfootinsv@l
13525 \fi
13526   \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
13527   \def\baselinestretch{\m@m@footnote@spacing}%
13528   \reset@font\foottextfont
13529   \hsize\columnwidth \@parboxrestore
13530   \protected@edef\@currentlabel{%
13531     \csname p@mpfootnote\endcsname\@thefnmark}%
13532 \color@begingroup
13533   \@sixcolfootfmt{#1}%
13534 \color@endgroup}%
13535 \m@mmf@prepare}
13536 \bidi@ensure@newcommand{\@mpsixcolLTRfootnotetext}[1]{%
13537 \global\setbox\@mpfootinsv@l\vbox{%
13538   \unvbox\@mpfootinsv@l
13539   \@RTLfalse
13540   \def\baselinestretch{\m@m@footnote@spacing}%
13541   \reset@font\LTRfoottextfont
13542   \hsize\columnwidth \@parboxrestore
13543   \protected@edef\@currentlabel{%
13544     \csname p@mpfootnote\endcsname\@thefnmark}%
13545 \color@begingroup
13546   \@sixcolLTRfootfmt{#1}%
13547 \color@endgroup}%
13548 \m@mmf@prepare}
13549 \newcommand{\@mpSixCollTRfootnotetext}[1]{%
13550 \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
13551 \global\setbox\@mpfootinsv@l\vbox{%
13552   \unvbox\@mpfootinsv@l
13553   \@RTLfalse
13554   \def\baselinestretch{\m@m@footnote@spacing}%
13555   \reset@font\LTRfoottextfont
13556   \hsize\columnwidth \@parboxrestore
13557   \protected@edef\@currentlabel{%
13558     \csname p@mpfootnote\endcsname\@thefnmark}%
13559 \color@begingroup
13560   \@sixcolLTRfootfmt{#1}%
13561 \color@endgroup}%
13562 \m@mmf@prepare}
13563 \bidi@ensure@newcommand{\@mpsixcolRTLfootnotetext}[1]{%

```



```

13564 \global\setbox\@mpfootinsv@r\vbox{%
13565   \unvbox\@mpfootinsv@r
13566   \RTLtrue
13567   \def\baselinestretch{\m@m@footnote@spacing}%
13568   \reset@font\RTLfoottextfont
13569   \hsize\columnwidth \@parboxrestore
13570   \protected@edef\@currentlabel{%
13571     \csname p@mpfootnote\endcsname\@thefnmark}%
13572   \color@begingroup
13573     \@sixcolRTLfootfmt{#1}%
13574   \color@endgroup}%
13575   \m@mmf@prepare}
13576 \newcommand{\@mpSixColRTLfootnotetext}[1]{%
13577   \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
13578   \global\setbox\@mpfootinsv@r\vbox{%
13579     \unvbox\@mpfootinsv@r
13580     \RTLtrue
13581     \def\baselinestretch{\m@m@footnote@spacing}%
13582     \reset@font\RTLfoottextfont
13583     \hsize\columnwidth \@parboxrestore
13584     \protected@edef\@currentlabel{%
13585       \csname p@mpfootnote\endcsname\@thefnmark}%
13586     \color@begingroup
13587       \@sixcolRTLfootfmt{#1}%
13588     \color@endgroup}%
13589     \m@mmf@prepare}
13590 \bidi@ensure@newcommand{\m@make@sixcol@footgroup}[1]{%
13591   \@namedef{@sixcol@footgroup#1}{%
13592     \def\baselinestretch{\m@m@footnote@spacing}%
13593     \hsize\bidi@columnwidth
13594     \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13595     \m@mrigidbalance{\@nameuse{footins#1}}{6}{\splittopskip}}}}
13596 \newcommand{\bidi@make@sixcol@LTRfootgroup}[1]{%
13597   \@namedef{@sixcol@LTRfootgroup#1}{%
13598     \def\baselinestretch{\m@m@footnote@spacing}%
13599     \hsize\bidi@columnwidth
13600     \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13601     \bidi@LTRrigidbalance{\@nameuse{footins#1}}{6}{\splittopskip}}}}
13602 \bidi@ensure@newcommand{\m@make@mpsixcol@footgroup}[1]{%
13603   \@namedef{@mpsixcol@footgroup#1}{%
13604     \def\baselinestretch{\m@m@footnote@spacing}%
13605     \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13606     \m@mrigidbalance{\@nameuse{mpfootins#1}}{6}{\splittopskip}}}}
13607 \newcommand{\bidi@make@mpsixcol@LTRfootgroup}[1]{%
13608   \@namedef{@mpsixcol@LTRfootgroup#1}{%
13609     \def\baselinestretch{\m@m@footnote@spacing}%
13610     \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13611     \bidi@LTRrigidbalance{\@nameuse{mpfootins#1}}{6}{\splittopskip}}}}
13612 \bidi@ensure@newcommand{\sevendcolumnfootnotes}{%
13613   \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
13614   \@namedef{foottextfontv@l}{\LTRfoottextfont}%
13615   \@bidi@before@Hy@hyperfootnotes
13616   \let\@footnotetext\@sevendcolfootnotetext
13617   \let\@LTRfootnotetext\@sevendcolLTRfootnotetext

```



```

13618 \let\@RTLfootnotetext\@sevencolRTLfootnotetext
13619 \dimen\footinsv@r=7\footinsdim
13620 \count\footinsv@r=142\relax
13621 \m@make@sevencol@footgroup{v@r}%
13622 \let\@footgroupv@r\@sevencol@footgroupv@r
13623 \dimen\footinsv@l=7\footinsdim
13624 \count\footinsv@l=142\relax
13625 \bidi@make@sevencol@LTRfootgroup{v@l}%
13626 \let\@LTRfootgroupv@l\@sevencol@LTRfootgroupv@l
13627 \let\@mpfootnotetext\@mpsevencolfootnotetext
13628 \let\@mpLTRfootnotetext\@mpsevencolLTRfootnotetext
13629 \let\@mpRTLfootnotetext\@mpsevencolRTLfootnotetext
13630 \@bidi@after@Hy@hyperfootnotes
13631 \m@make@mpsevencol@footgroup{v@r}%
13632 \let\mp@footgroupv@r\@mpsevencol@footgroupv@r
13633 \bidi@make@mpsevencol@LTRfootgroup{v@l}%
13634 \let\mp@LTRfootgroupv@l\@mpsevencol@LTRfootgroupv@l
13635 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
13636 }
13637 \newcommand{\SevenColumnFootnotes}{%
13638 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
13639 \@namedef{foottextfontv@l}{\LTRfoottextfont}%
13640 \@bidi@before@Hy@hyperfootnotes
13641 \let\@footnotetext\@SevenColfootnotetext
13642 \let\@LTRfootnotetext\@SevenColLTRfootnotetext
13643 \let\@RTLfootnotetext\@SevenColRTLfootnotetext
13644 \dimen\footinsv@r=7\footinsdim
13645 \count\footinsv@r=142\relax
13646 \m@make@sevencol@footgroup{v@r}%
13647 \let\@footgroupv@r\@sevencol@footgroupv@r
13648 \dimen\footinsv@l=7\footinsdim
13649 \count\footinsv@l=142\relax
13650 \bidi@make@sevencol@LTRfootgroup{v@l}%
13651 \let\@LTRfootgroupv@l\@sevencol@LTRfootgroupv@l
13652 \let\@mpfootnotetext\@mpSevenColfootnotetext
13653 \let\@mpLTRfootnotetext\@mpSevenColLTRfootnotetext
13654 \let\@mpRTLfootnotetext\@mpSevenColRTLfootnotetext
13655 \@bidi@after@Hy@hyperfootnotes
13656 \m@make@mpsevencol@footgroup{v@r}%
13657 \let\mp@footgroupv@r\@mpsevencol@footgroupv@r
13658 \bidi@make@mpsevencol@LTRfootgroup{v@l}%
13659 \let\mp@LTRfootgroupv@l\@mpsevencol@LTRfootgroupv@l
13660 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
13661 }
13662 \bidi@ensure@newcommand{\@sevencolfootnotetext}[1]{\insert
13663 \if@RTL@footnote
13664 \footinsv@r
13665 \else
13666 \footinsv@l
13667 \fi
13668 {\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
13669 \def\baselinestretch{\m@footnote@spacing}%
13670 \reset@font\foottextfont
13671 \@preamfntext

```



```

13672 \protected@edef\@currentlabel{%
13673   \csname p@footnote\endcsname\@thefnmark}%
13674 \color@begingroup
13675   \@sevenscolfootfmt{#1}%
13676 \color@endgroup}%
13677 \m@mmf@prepare}
13678 \newcommand{\@SevenColfootnotetext}[1]{%
13679 \bidi@step@absolute@footnote@count
13680 \if@RTL@footnote
13681   \bidi@reinsertfootnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l
13682 \else
13683   \bidi@reinsertfootnote\footinsv@r\@footstartv@r\@footgroupv@r
13684 \fi
13685 \global\setbox
13686 \if@RTL@footnote
13687   \footinsv@r
13688 \else
13689   \footinsv@l
13690 \fi
13691 \vbox{%
13692 \unvbox
13693 \if@RTL@footnote
13694   \footinsv@r
13695 \else
13696   \footinsv@l
13697 \fi
13698 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
13699 \def\baselinestretch{\m@m@footnote@spacing}%
13700 \reset@font\foottextfont
13701 \@preamfntext
13702 \protected@edef\@currentlabel{%
13703   \csname p@footnote\endcsname\@thefnmark}%
13704 \color@begingroup
13705   \@sevenscolfootfmt{#1}%
13706 \color@endgroup}%
13707 \m@mmf@prepare
13708 \if@RTL@footnote
13709   \bidi@reinsertfinalfootnoteperpage\footinsv@r\@footstartv@r\@footgroupv@r
13710 \else
13711   \bidi@reinsertfinalfootnoteperpage\footinsv@l\@footstartv@l\@LTRfootgroupv@l
13712 \fi
13713 }
13714 \bidi@ensure@newcommand{\@sevenscolLTRfootnotetext}[1]{\insert\footinsv@l{\@RTLfalse%
13715 \def\baselinestretch{\m@m@footnote@spacing}%
13716 \reset@font\LTRfoottextfont
13717 \@preamfntext
13718 \protected@edef\@currentlabel{%
13719   \csname p@footnote\endcsname\@thefnmark}%
13720 \color@begingroup
13721   \@sevenscolLTRfootfmt{#1}%
13722 \color@endgroup}%
13723 \m@mmf@prepare}
13724 \newcommand{\@SevenCollTRfootnotetext}[1]{%
13725 \bidi@step@absolute@footnote@count

```





```

13726 \bidi@reinsertfootnote\footinsv@r\@footstartv@r\@footgroupv@r
13727 \global\setbox\footinsv@l\vbox{%
13728 \unvbox\footinsv@l
13729 \RTLfalse
13730 \def\baselinestretch{\m@m@footnote@spacing}%
13731 \reset@font\LTRfoottextfont
13732 \@preamfntext
13733 \protected@edef\@currentlabel{%
13734   \csname p@footnote\endcsname\@thefnmark}%
13735 \color@begingroup
13736   \@sevendcolLTRfootfmt{#1}%
13737 \color@endgroup}%
13738 \m@m@mmf@prepare
13739 \bidi@reinsertfinalfootnoteperpage\footinsv@l\@footstartv@l\@LTRfootgroupv@l
13740 }
13741 \bidi@ensure@newcommand{\@sevendcolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
13742 \def\baselinestretch{\m@m@footnote@spacing}%
13743 \reset@font\RTLfoottextfont
13744 \@preamfntext
13745 \protected@edef\@currentlabel{%
13746   \csname p@footnote\endcsname\@thefnmark}%
13747 \color@begingroup
13748   \@sevendcolRTLfootfmt{#1}%
13749 \color@endgroup}%
13750 \m@m@mmf@prepare}
13751 \newcommand{\@SevenColRTLfootnotetext}[1]{%
13752 \bidi@step@absolute@footnote@count
13753 \bidi@reinsertfootnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l
13754 \global\setbox\footinsv@r\vbox{%
13755 \unvbox\footinsv@r
13756 \RTLtrue
13757 \def\baselinestretch{\m@m@footnote@spacing}%
13758 \reset@font\RTLfoottextfont
13759 \@preamfntext
13760 \protected@edef\@currentlabel{%
13761   \csname p@footnote\endcsname\@thefnmark}%
13762 \color@begingroup
13763   \@sevendcolRTLfootfmt{#1}%
13764 \color@endgroup}%
13765 \m@m@mmf@prepare
13766 \bidi@reinsertfinalfootnoteperpage\footinsv@r\@footstartv@r\@footgroupv@r
13767 }
13768 \bidi@ensure@newcommand{\@preamsevenfmt}{%
13769 \hspace .142\hspace
13770 \parindent=\z@
13771 \tolerance=5000\relax
13772 \leavevmode}
13773 \bidi@ensure@newcommand{\@sevendcolfootfmt}[1]{%
13774 \@preamsevenfmt
13775 {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
13776 \bidi@ensure@newcommand{\@sevendcolLTRfootfmt}[1]{%
13777 \@preamsevenfmt
13778 {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
13779 \bidi@ensure@newcommand{\@sevendcolRTLfootfmt}[1]{%

```



```

13780 \@preamsevenfmt
13781 {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
13782 \bidi@ensure@newcommand{\@mpsevencolfootnotetext}[1]{%
13783   \global\setbox
13784     \if@RTL@footnote
13785     \@mpfootinsv@r
13786   \else
13787     \@mpfootinsv@l
13788   \fi
13789   \vbox{%
13790     \unvbox
13791     \if@RTL@footnote
13792     \@mpfootinsv@r
13793   \else
13794     \@mpfootinsv@l
13795   \fi
13796   \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
13797   \def\baselinestretch{\m@m@footnote@spacing}%
13798   \reset@font\foottextfont
13799   \hsize\columnwidth \@parboxrestore
13800   \protected@edef\@currentlabel{%
13801     \csname p@mpfootnote\endcsname\@thefnmark}%
13802   \color@begingroup
13803     \@sevencolfootfmt{#1}%
13804   \color@endgroup}%
13805   \m@mmf@prepare}
13806 \newcommand{\@mpSevenColfootnotetext}[1]{%
13807   \if@RTL@footnote
13808     \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
13809   \else
13810     \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
13811   \fi
13812   \global\setbox
13813     \if@RTL@footnote
13814     \@mpfootinsv@r
13815   \else
13816     \@mpfootinsv@l
13817   \fi
13818   \vbox{%
13819     \unvbox
13820     \if@RTL@footnote
13821     \@mpfootinsv@r
13822   \else
13823     \@mpfootinsv@l
13824   \fi
13825   \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
13826   \def\baselinestretch{\m@m@footnote@spacing}%
13827   \reset@font\foottextfont
13828   \hsize\columnwidth \@parboxrestore
13829   \protected@edef\@currentlabel{%
13830     \csname p@mpfootnote\endcsname\@thefnmark}%
13831   \color@begingroup
13832     \@sevencolfootfmt{#1}%
13833   \color@endgroup}%

```



```

13834 \m@mmf@prepare}
13835 \bidi@ensure@newcommand{\@mpsevencolLTRfootnotetext}[1]{%
13836 \global\setbox\@mpfootinsv@l\vbox{%
13837 \unvbox\@mpfootinsv@l
13838 \@RTLfalse
13839 \def\baselinestretch{\m@m@footnote@spacing}%
13840 \reset@font\LTRfoottextfont
13841 \hsize\columnwidth \@parboxrestore
13842 \protected@edef\@currentlabel{%
13843 \csname p@mpfootnote\endcsname\@thefnmark}%
13844 \color@begingroup
13845 \@sevencolLTRfootfmt{#1}%
13846 \color@endgroup}%
13847 \m@mmf@prepare}
13848 \newcommand{\@mpSevenColLTRfootnotetext}[1]{%
13849 \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
13850 \global\setbox\@mpfootinsv@l\vbox{%
13851 \unvbox\@mpfootinsv@l
13852 \@RTLfalse
13853 \def\baselinestretch{\m@m@footnote@spacing}%
13854 \reset@font\LTRfoottextfont
13855 \hsize\columnwidth \@parboxrestore
13856 \protected@edef\@currentlabel{%
13857 \csname p@mpfootnote\endcsname\@thefnmark}%
13858 \color@begingroup
13859 \@sevencolLTRfootfmt{#1}%
13860 \color@endgroup}%
13861 \m@mmf@prepare}
13862 \bidi@ensure@newcommand{\@mpsevencolRTLfootnotetext}[1]{%
13863 \global\setbox\@mpfootinsv@r\vbox{%
13864 \unvbox\@mpfootinsv@r
13865 \@RTLtrue
13866 \def\baselinestretch{\m@m@footnote@spacing}%
13867 \reset@font\RTLfoottextfont
13868 \hsize\columnwidth \@parboxrestore
13869 \protected@edef\@currentlabel{%
13870 \csname p@mpfootnote\endcsname\@thefnmark}%
13871 \color@begingroup
13872 \@sevencolRTLfootfmt{#1}%
13873 \color@endgroup}%
13874 \m@mmf@prepare}
13875 \newcommand{\@mpSevenColRTLfootnotetext}[1]{%
13876 \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
13877 \global\setbox\@mpfootinsv@r\vbox{%
13878 \unvbox\@mpfootinsv@r
13879 \@RTLtrue
13880 \def\baselinestretch{\m@m@footnote@spacing}%
13881 \reset@font\RTLfoottextfont
13882 \hsize\columnwidth \@parboxrestore
13883 \protected@edef\@currentlabel{%
13884 \csname p@mpfootnote\endcsname\@thefnmark}%
13885 \color@begingroup
13886 \@sevencolRTLfootfmt{#1}%
13887 \color@endgroup}%

```



```

13888 \m@mmf@prepare}
13889 \bidi@ensure@newcommand{\m@make@sevencol@footgroup}[1]{%
13890 \namedef{@sevencol@footgroup#1}{%
13891 \def\baselinestretch{\m@m@footnote@spacing}%
13892 \hsize\bidi@columnwidth
13893 \nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13894 \m@r rigidbalance{\nameuse{footins#1}}{7}{\splittopskip}}
13895 \newcommand{\bidi@make@sevencol@LTRfootgroup}[1]{%
13896 \namedef{@sevencol@LTRfootgroup#1}{%
13897 \def\baselinestretch{\m@m@footnote@spacing}%
13898 \hsize\bidi@columnwidth
13899 \nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13900 \bidi@LTRrigidbalance{\nameuse{footins#1}}{7}{\splittopskip}}
13901 \bidi@ensure@newcommand{\m@make@mpsevencol@footgroup}[1]{%
13902 \namedef{@mpsevencol@footgroup#1}{%
13903 \def\baselinestretch{\m@m@footnote@spacing}%
13904 \nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13905 \m@r rigidbalance{\nameuse{mpfootins#1}}{7}{\splittopskip}}
13906 \newcommand{\bidi@make@mpsevencol@LTRfootgroup}[1]{%
13907 \namedef{@mpsevencol@LTRfootgroup#1}{%
13908 \def\baselinestretch{\m@m@footnote@spacing}%
13909 \nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13910 \bidi@LTRrigidbalance{\nameuse{mpfootins#1}}{7}{\splittopskip}}
13911 \bidi@ensure@newcommand{\eightcolumnfootnotes}{%
13912 \namedef{foottextfontv@r}{\foottextfont}% % [RS]
13913 \namedef{foottextfontv@l}{\LTRfoottextfont}%
13914 \@bidi@before@Hy@hyperfootnotes
13915 \let\@footnotetext\@eightcolfootnotetext
13916 \let\@LTRfootnotetext\@eightcolLTRfootnotetext
13917 \let\@RTLfootnotetext\@eightcolRTLfootnotetext
13918 \dimen\footinsv@r=8\footinsdim
13919 \count\footinsv@r=125\relax
13920 \m@make@eightcol@footgroup{v@r}%
13921 \let\@footgroupv@r\@eightcol@footgroupv@r
13922 \dimen\footinsv@l=8\footinsdim
13923 \count\footinsv@l=125\relax
13924 \bidi@make@eightcol@LTRfootgroup{v@l}%
13925 \let\@LTRfootgroupv@l\@eightcol@LTRfootgroupv@l
13926 \let\@mpfootnotetext\@mpeightcolfootnotetext
13927 \let\@mpLTRfootnotetext\@mpeightcolLTRfootnotetext
13928 \let\@mpRTLfootnotetext\@mpeightcolRTLfootnotetext
13929 \@bidi@after@Hy@hyperfootnotes
13930 \m@make@mpeightcol@footgroup{v@r}%
13931 \let\mp@footgroupv@r\@mpeightcol@footgroupv@r
13932 \bidi@make@mpeightcol@LTRfootgroup{v@l}%
13933 \let\mp@LTRfootgroupv@l\@mpeightcol@LTRfootgroupv@l
13934 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
13935 }
13936 \newcommand{\EightColumnFootnotes}{%
13937 \namedef{foottextfontv@r}{\foottextfont}% % [RS]
13938 \namedef{foottextfontv@l}{\LTRfoottextfont}%
13939 \@bidi@before@Hy@hyperfootnotes
13940 \let\@footnotetext\@EightColfootnotetext
13941 \let\@LTRfootnotetext\@EightColLTRfootnotetext

```



```

13942 \let\@RTLfootnotetext\@EightColRTLfootnotetext
13943 \dimen\footinsv@r=8\footinsdim
13944 \count\footinsv@r=125\relax
13945 \m@make@eightcol@footgroup{v@r}%
13946 \let\@footgroupv@r\@eightcol@footgroupv@r
13947 \dimen\footinsv@l=8\footinsdim
13948 \count\footinsv@l=125\relax
13949 \bidi@make@eightcol@LTRfootgroup{v@l}%
13950 \let\@LTRfootgroupv@l\@eightcol@LTRfootgroupv@l
13951 \let\@mpfootnotetext\@mpEightColfootnotetext
13952 \let\@mpLTRfootnotetext\@mpEightColLTRfootnotetext
13953 \let\@mpRTLfootnotetext\@mpEightColRTLfootnotetext
13954 \@bidi@after@Hy@hyperfootnotes
13955 \m@make@mp@eightcol@footgroup{v@r}%
13956 \let\mp@footgroupv@r\@mp@eightcol@footgroupv@r
13957 \bidi@make@mp@eightcol@LTRfootgroup{v@l}%
13958 \let\mp@LTRfootgroupv@l\@mp@eightcol@LTRfootgroupv@l
13959 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
13960 }
13961 \bidi@ensure@newcommand{\@eightcolfootnotetext}[1]{\insert
13962 \ifRTL@footnote
13963 \footinsv@r
13964 \else
13965 \footinsv@l
13966 \fi
13967 {\ifRTL@footnote\@RTLtrue\else\@RTLfalse\fi%
13968 \def\baselinestretch{\m@footnote@spacing}%
13969 \reset@font\foottextfont
13970 \@preamfntext
13971 \protected@edef\@currentlabel{%
13972 \csname p@footnote\endcsname\@thefnmark}%
13973 \color@begingroup
13974 \@eightcolfootfmt{#1}%
13975 \color@endgroup}%
13976 \m@mmf@prepare}
13977 \newcommand{\@EightColfootnotetext}[1]{%
13978 \bidi@step@absolute@footnote@count
13979 \ifRTL@footnote
13980 \bidi@reinsertfootnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l
13981 \else
13982 \bidi@reinsertfootnote\footinsv@r\@footstartv@r\@footgroupv@r
13983 \fi
13984 \global\setbox
13985 \ifRTL@footnote
13986 \footinsv@r
13987 \else
13988 \footinsv@l
13989 \fi
13990 \vbox{%
13991 \unvbox
13992 \ifRTL@footnote
13993 \footinsv@r
13994 \else
13995 \footinsv@l

```



```

13996 \fi
13997 \ifRTL@footnote\@RTLtrue\else\@RTLfalse\fi
13998 \def\baselinestretch{\m@m@footnote@spacing}%
13999 \reset@font\foottextfont
14000 \@premfntext
14001 \protected@edef\@currentlabel{%
14002   \csname p@footnote\endcsname\@thefnmark}%
14003 \color@begingroup
14004   \@eightcolfootfmt{#1}%
14005 \color@endgroup}%
14006 \m@mmf@prepare
14007 \ifRTL@footnote
14008   \bidi@reinsertfinalfootnoteperpage\footinsv@r\@footstartv@r\@footgroupv@r
14009 \else
14010   \bidi@reinsertfinalfootnoteperpage\footinsv@l\@footstartv@l\@LTRfootgroupv@l
14011 \fi
14012 }
14013 \bidi@ensure@newcommand{\@eightcolLTRfootnotetext}[1]{\insert\footinsv@l{\@RTLfalse%
14014 \def\baselinestretch{\m@m@footnote@spacing}%
14015 \reset@font\LTRfoottextfont
14016 \@premfntext
14017 \protected@edef\@currentlabel{%
14018   \csname p@footnote\endcsname\@thefnmark}%
14019 \color@begingroup
14020   \@eightcolLTRfootfmt{#1}%
14021 \color@endgroup}%
14022 \m@mmf@prepare}
14023 \newcommand{\@EightColLTRfootnotetext}[1]{%
14024 \bidi@step@absolute@footnote@count
14025 \bidi@reinsertfootnote\footinsv@r\@footstartv@r\@footgroupv@r
14026 \global\setbox\footinsv@l\vbox{%
14027 \unvbox\footinsv@l
14028 \@RTLfalse
14029 \def\baselinestretch{\m@m@footnote@spacing}%
14030 \reset@font\LTRfoottextfont
14031 \@premfntext
14032 \protected@edef\@currentlabel{%
14033   \csname p@footnote\endcsname\@thefnmark}%
14034 \color@begingroup
14035   \@eightcolLTRfootfmt{#1}%
14036 \color@endgroup}%
14037 \m@mmf@prepare
14038 \bidi@reinsertfinalfootnoteperpage\footinsv@l\@footstartv@l\@LTRfootgroupv@l
14039 }
14040 \bidi@ensure@newcommand{\@eightcolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
14041 \def\baselinestretch{\m@m@footnote@spacing}%
14042 \reset@font\RTLfoottextfont
14043 \@premfntext
14044 \protected@edef\@currentlabel{%
14045   \csname p@footnote\endcsname\@thefnmark}%
14046 \color@begingroup
14047   \@eightcolRTLfootfmt{#1}%
14048 \color@endgroup}%
14049 \m@mmf@prepare}

```



```

14050 \newcommand{\@EightColRTLfootnotetext}[1]{%
14051   \bidi@step@absolutefootnote@count
14052   \bidi@reinsertfootnote\footinsv@1\@footstartv@1\@LTRfootgroupv@1
14053   \global\setbox\footinsv@r\vbox{%
14054     \unvbox\footinsv@r
14055     \@RTLtrue%
14056     \def\baselinestretch{\m@m@footnote@spacing}%
14057     \reset@font\RTLfoottextfont
14058     \@preamfntext
14059     \protected@edef\@currentlabel{%
14060       \csname p@footnote\endcsname\@thefnmark}%
14061     \color@begingroup
14062       \@eightcolRTLfootfmt{#1}%
14063     \color@endgroup}%
14064     \m@mmf@prepare
14065     \bidi@reinsertfinalfootnoteperpage\footinsv@r\@footstartv@r\@footgroupv@r
14066 }
14067 \bidi@ensure@newcommand{\@preameightfmt}{%
14068   \hsize .125\hsize
14069   \parindent=\z@
14070   \tolerance=5000\relax
14071   \leavevmode}
14072 \bidi@ensure@newcommand{\@eightcolfootfmt}[1]{%
14073   \@preameightfmt
14074   {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
14075 \bidi@ensure@newcommand{\@eightcolLTRfootfmt}[1]{%
14076   \@preameightfmt
14077   {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
14078 \bidi@ensure@newcommand{\@eightcolRTLfootfmt}[1]{%
14079   \@preameightfmt
14080   {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
14081 \bidi@ensure@newcommand{\@mpeightcolfootnotetext}[1]{%
14082   \global\setbox
14083     \if@RTL@footnote
14084     \@mpfootinsv@r
14085   \else
14086     \@mpfootinsv@l
14087   \fi
14088   \vbox{%
14089     \unvbox
14090     \if@RTL@footnote
14091     \@mpfootinsv@r
14092   \else
14093     \@mpfootinsv@l
14094   \fi
14095     \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
14096     \def\baselinestretch{\m@m@footnote@spacing}%
14097     \reset@font\foottextfont
14098     \hsize\columnwidth \@parboxrestore
14099     \protected@edef\@currentlabel{%
14100       \csname p@mpfootnote\endcsname\@thefnmark}%
14101     \color@begingroup
14102       \@eightcolfootfmt{#1}%
14103     \color@endgroup}%

```



```

14104 \m@mmf@prepare}
14105 \newcommand{\@mpEightColfootnotetext}[1]{%
14106   \if@RTL@footnote
14107     \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
14108   \else
14109     \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
14110   \fi
14111   \global\setbox
14112     \if@RTL@footnote
14113     \@mpfootinsv@r
14114   \else
14115     \@mpfootinsv@l
14116   \fi
14117   \vbox{%
14118     \unvbox
14119     \if@RTL@footnote
14120     \@mpfootinsv@r
14121   \else
14122     \@mpfootinsv@l
14123   \fi
14124   \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
14125   \def\baselinestretch{\m@m@footnote@spacing}%
14126   \reset@font\foottextfont
14127   \hsize\columnwidth \@parboxrestore
14128   \protected@edef\@currentlabel{%
14129     \csname p@mpfootnote\endcsname\@thefnmark}%
14130   \color@begingroup
14131     \@eightcolfootfmt{#1}%
14132   \color@endgroup}%
14133 \m@mmf@prepare}
14134 \bidi@ensure@newcommand{\@mpeightcolLTRfootnotetext}[1]{%
14135   \global\setbox\@mpfootinsv@l\vbox{%
14136     \unvbox\@mpfootinsv@l
14137     \@RTLfalse
14138     \def\baselinestretch{\m@m@footnote@spacing}%
14139     \reset@font\LTRfoottextfont
14140     \hsize\columnwidth \@parboxrestore
14141     \protected@edef\@currentlabel{%
14142       \csname p@mpfootnote\endcsname\@thefnmark}%
14143     \color@begingroup
14144       \@eightcolLTRfootfmt{#1}%
14145     \color@endgroup}%
14146   \m@mmf@prepare}
14147 \newcommand{\@mpEightColLTRfootnotetext}[1]{%
14148   \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
14149   \global\setbox\@mpfootinsv@l\vbox{%
14150     \unvbox\@mpfootinsv@l
14151     \@RTLfalse
14152     \def\baselinestretch{\m@m@footnote@spacing}%
14153     \reset@font\LTRfoottextfont
14154     \hsize\columnwidth \@parboxrestore
14155     \protected@edef\@currentlabel{%
14156       \csname p@mpfootnote\endcsname\@thefnmark}%
14157   \color@begingroup

```





```

14158 \eightcolLTRfootfmt{#1}%
14159 \color@endgroup}%
14160 \m@mmf@prepare}
14161 \bidi@ensure@newcommand{\@mpeightcolRTLfootnotetext}[1]{%
14162 \global\setbox\@mpfootinsv@r\vbox{%
14163 \unvbox\@mpfootinsv@r
14164 \@RTLtrue
14165 \def\baselinestretch{\m@m@footnote@spacing}%
14166 \reset@font\RTLfoottextfont
14167 \hsize\columnwidth \@parboxrestore
14168 \protected@edef\@currentlabel{%
14169 \csname p@mpfootnote@endcsname\@thefnmark}%
14170 \color@begingroup
14171 \eightcolRTLfootfmt{#1}%
14172 \color@endgroup}%
14173 \m@mmf@prepare}
14174 \newcommand{\@mpEightColRTLfootnotetext}[1]{%
14175 \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
14176 \global\setbox\@mpfootinsv@r\vbox{%
14177 \unvbox\@mpfootinsv@r
14178 \@RTLtrue
14179 \def\baselinestretch{\m@m@footnote@spacing}%
14180 \reset@font\RTLfoottextfont
14181 \hsize\columnwidth \@parboxrestore
14182 \protected@edef\@currentlabel{%
14183 \csname p@mpfootnote@endcsname\@thefnmark}%
14184 \color@begingroup
14185 \eightcolRTLfootfmt{#1}%
14186 \color@endgroup}%
14187 \m@mmf@prepare}
14188 \bidi@ensure@newcommand{\m@make@eightcol@footgroup}[1]{%
14189 \@namedef{@eightcol@footgroup#1}{%
14190 \def\baselinestretch{\m@m@footnote@spacing}%
14191 \hsize\bidi@columnwidth
14192 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
14193 \m@mrigidbalance{\@nameuse{footins#1}}{8}{\splittopskip}}}}
14194 \newcommand{\bidi@make@eightcol@LTRfootgroup}[1]{%
14195 \@namedef{@eightcol@LTRfootgroup#1}{%
14196 \def\baselinestretch{\m@m@footnote@spacing}%
14197 \hsize\bidi@columnwidth
14198 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
14199 \bidi@LTRrigidbalance{\@nameuse{footins#1}}{8}{\splittopskip}}}}
14200 \bidi@ensure@newcommand{\m@make@mp@eightcol@footgroup}[1]{%
14201 \@namedef{@mp@eightcol@footgroup#1}{%
14202 \def\baselinestretch{\m@m@footnote@spacing}%
14203 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
14204 \m@mrigidbalance{\@nameuse{mpfootins#1}}{8}{\splittopskip}}}}
14205 \newcommand{\bidi@make@mp@eightcol@LTRfootgroup}[1]{%
14206 \@namedef{@mp@eightcol@LTRfootgroup#1}{%
14207 \def\baselinestretch{\m@m@footnote@spacing}%
14208 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
14209 \bidi@LTRrigidbalance{\@nameuse{mpfootins#1}}{8}{\splittopskip}}}}
14210 \bidi@ensure@newcommand{\ninecolumnfootnotes}{%
14211 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]

```



```

14212 \@namedef{foottextfontv@1}{\LTRfoottextfont}%
14213 \@bidi@before@Hy@hyperfootnotes
14214 \let\@footnotetext\@ninecolfootnotetext
14215 \let\@LTRfootnotetext\@ninecolLTRfootnotetext
14216 \let\@RTLfootnotetext\@ninecolRTLfootnotetext
14217 \dimen\footinsv@r=9\footinsdim
14218 \count\footinsv@r=111\relax
14219 \m@make@ninecol@footgroup{v@r}%
14220 \let\@footgroupv@r\@ninecol@footgroupv@r
14221 \dimen\footinsv@l=9\footinsdim
14222 \count\footinsv@l=111\relax
14223 \bidi@make@ninecol@LTRfootgroup{v@l}%
14224 \let\@LTRfootgroupv@l\@ninecol@LTRfootgroupv@l
14225 \let\@mpfootnotetext\@mpninecolfootnotetext
14226 \let\@mpLTRfootnotetext\@mpninecolLTRfootnotetext
14227 \let\@mpRTLfootnotetext\@mpninecolRTLfootnotetext
14228 \@bidi@after@Hy@hyperfootnotes
14229 \m@make@mpninecol@footgroup{v@r}%
14230 \let\mp@footgroupv@r\@mpninecol@footgroupv@r
14231 \bidi@make@mpninecol@LTRfootgroup{v@l}%
14232 \let\mp@LTRfootgroupv@l\@mpninecol@LTRfootgroupv@l
14233 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
14234 }
14235 \newcommand{\NineColumnFootnotes}{%
14236 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
14237 \@namedef{foottextfontv@l}{\LTRfoottextfont}%
14238 \@bidi@before@Hy@hyperfootnotes
14239 \let\@footnotetext\@NineColfootnotetext
14240 \let\@LTRfootnotetext\@NineColLTRfootnotetext
14241 \let\@RTLfootnotetext\@NineColRTLfootnotetext
14242 \dimen\footinsv@r=9\footinsdim
14243 \count\footinsv@r=111\relax
14244 \m@make@ninecol@footgroup{v@r}%
14245 \let\@footgroupv@r\@ninecol@footgroupv@r
14246 \dimen\footinsv@l=9\footinsdim
14247 \count\footinsv@l=111\relax
14248 \bidi@make@ninecol@LTRfootgroup{v@l}%
14249 \let\@LTRfootgroupv@l\@ninecol@LTRfootgroupv@l
14250 \let\@mpfootnotetext\@mpNineColfootnotetext
14251 \let\@mpLTRfootnotetext\@mpNineColLTRfootnotetext
14252 \let\@mpRTLfootnotetext\@mpNineColRTLfootnotetext
14253 \@bidi@after@Hy@hyperfootnotes
14254 \m@make@mpninecol@footgroup{v@r}%
14255 \let\mp@footgroupv@r\@mpninecol@footgroupv@r
14256 \bidi@make@mpninecol@LTRfootgroup{v@l}%
14257 \let\mp@LTRfootgroupv@l\@mpninecol@LTRfootgroupv@l
14258 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
14259 }
14260 \bidi@ensure@newcommand{\@ninecolfootnotetext}[1]{\insert
14261 \if@RTL@footnote
14262 \footinsv@r
14263 \else
14264 \footinsv@l
14265 \fi

```



```

14266 {\ifRTL@footnote\@RTLtrue\else\@RTLfalse\fi%
14267 \def\baselinestretch{\m@m@footnote@spacing}%
14268 \reset@font\foottextfont
14269 \@preamfntext
14270 \protected@edef\@currentlabel{%
14271 \csname p@footnote\endcsname\@thefnmark}%
14272 \color@begingroup
14273 \@ninecolfootfmt{#1}%
14274 \color@endgroup}%
14275 \m@mmf@prepare}
14276 \newcommand{\@NineColfootnotetext}[1]{%
14277 \bidi@step@absolute@footnote@count
14278 \ifRTL@footnote
14279 \bidi@reinsertfootnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l
14280 \else
14281 \bidi@reinsertfootnote\footinsv@r\@footstartv@r\@footgroupv@r
14282 \fi
14283 \global\setbox
14284 \ifRTL@footnote
14285 \footinsv@r
14286 \else
14287 \footinsv@l
14288 \fi
14289 \vbox{%
14290 \unvbox
14291 \ifRTL@footnote
14292 \footinsv@r
14293 \else
14294 \footinsv@l
14295 \fi
14296 \ifRTL@footnote\@RTLtrue\else\@RTLfalse\fi
14297 \def\baselinestretch{\m@m@footnote@spacing}%
14298 \reset@font\foottextfont
14299 \@preamfntext
14300 \protected@edef\@currentlabel{%
14301 \csname p@footnote\endcsname\@thefnmark}%
14302 \color@begingroup
14303 \@ninecolfootfmt{#1}%
14304 \color@endgroup}%
14305 \m@mmf@prepare
14306 \ifRTL@footnote
14307 \bidi@reinsertfinalfootnoteperpage\footinsv@r\@footstartv@r\@footgroupv@r
14308 \else
14309 \bidi@reinsertfinalfootnoteperpage\footinsv@l\@footstartv@l\@LTRfootgroupv@l
14310 \fi
14311 }
14312 \bidi@ensure@newcommand{\@ninecolLTRfootnotetext}[1]{\insert\footinsv@l{\@RTLfalse%
14313 \def\baselinestretch{\m@m@footnote@spacing}%
14314 \reset@font\LTRfoottextfont
14315 \@preamfntext
14316 \protected@edef\@currentlabel{%
14317 \csname p@footnote\endcsname\@thefnmark}%
14318 \color@begingroup
14319 \@ninecolLTRfootfmt{#1}%

```



```

14320 \color@endgroup}%
14321 \m@mmf@prepare}
14322 \newcommand{\@NineColLTRfootnotetext}[1]{%
14323 \bidi@step@absolute@footnote@count
14324 \bidi@reinsert@footnote\footinsv@r\@footstartv@r\@footgroupv@r
14325 \global\setbox\footinsv@l\vbox{%
14326 \unvbox\footinsv@l
14327 \RTLfalse
14328 \def\baselinestretch{\m@m@footnote@spacing}%
14329 \reset@font\LTRfoottextfont
14330 \@preamfntext
14331 \protected@edef\@currentlabel{%
14332 \csname p@footnote\endcsname\@thefnmark}%
14333 \color@begingroup
14334 \@ninecolLTRfootfmt{#1}%
14335 \color@endgroup}%
14336 \m@mmf@prepare
14337 \bidi@reinsertfinalfootnoteperpage\footinsv@l\@footstartv@l\@LTRfootgroupv@l
14338 }
14339 \bidi@ensure@newcommand{\@ninecolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
14340 \def\baselinestretch{\m@m@footnote@spacing}%
14341 \reset@font\RTLfoottextfont
14342 \@preamfntext
14343 \protected@edef\@currentlabel{%
14344 \csname p@footnote\endcsname\@thefnmark}%
14345 \color@begingroup
14346 \@ninecolRTLfootfmt{#1}%
14347 \color@endgroup}%
14348 \m@mmf@prepare}
14349 \newcommand{\@NineColRTLfootnotetext}[1]{%
14350 \bidi@step@absolute@footnote@count
14351 \bidi@reinsert@footnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l
14352 \global\setbox\footinsv@r\vbox{%
14353 \unvbox\footinsv@r
14354 \RTLtrue
14355 \def\baselinestretch{\m@m@footnote@spacing}%
14356 \reset@font\RTLfoottextfont
14357 \@preamfntext
14358 \protected@edef\@currentlabel{%
14359 \csname p@footnote\endcsname\@thefnmark}%
14360 \color@begingroup
14361 \@ninecolRTLfootfmt{#1}%
14362 \color@endgroup}%
14363 \m@mmf@prepare
14364 \bidi@reinsertfinalfootnoteperpage\footinsv@r\@footstartv@r\@footgroupv@r
14365 }
14366 \bidi@ensure@newcommand{\@preamninefmt}{%
14367 \hspace .1\hspace
14368 \parindent=\z@
14369 \tolerance=5000\relax
14370 \leavevmode}
14371 \bidi@ensure@newcommand{\@ninecolfootfmt}[1]{%
14372 \@preamninefmt
14373 {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}

```



```

14374 \bidi@ensure@newcommand{\@ninecolLTRfootfmt}[1]{%
14375   \@preamninefmt
14376   {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
14377 \bidi@ensure@newcommand{\@ninecolRTLfootfmt}[1]{%
14378   \@preamninefmt
14379   {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
14380 \bidi@ensure@newcommand{\@mpninecolfootnotetext}[1]{%
14381   \global\setbox
14382     \if@RTL@footnote
14383     \@mpfootinsv@r
14384   \else
14385     \@mpfootinsv@l
14386   \fi
14387   \vbox{%
14388     \unvbox
14389     \if@RTL@footnote
14390     \@mpfootinsv@r
14391   \else
14392     \@mpfootinsv@l
14393   \fi
14394   \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
14395   \def\baselinestretch{\m@m@footnote@spacing}%
14396   \reset@font\foottextfont
14397   \hsize\columnwidth \@parboxrestore
14398   \protected@edef\@currentlabel{%
14399     \csname p@mpfootnote\endcsname\@thefnmark}%
14400   \color@begingroup
14401     \@ninecolfootfmt{#1}%
14402   \color@endgroup}%
14403   \m@m@mmf@prepare}
14404 \newcommand{\@mpNineColfootnotetext}[1]{%
14405   \if@RTL@footnote
14406     \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
14407   \else
14408     \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
14409   \fi
14410   \global\setbox
14411     \if@RTL@footnote
14412     \@mpfootinsv@r
14413   \else
14414     \@mpfootinsv@l
14415   \fi
14416   \vbox{%
14417     \unvbox
14418     \if@RTL@footnote
14419     \@mpfootinsv@r
14420   \else
14421     \@mpfootinsv@l
14422   \fi
14423   \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
14424   \def\baselinestretch{\m@m@footnote@spacing}%
14425   \reset@font\foottextfont
14426   \hsize\columnwidth \@parboxrestore
14427   \protected@edef\@currentlabel{%

```



```

14428     \csname p@mpfootnote\endcsname\@thefnmark}%
14429 \color@begingroup
14430     \@ninecolfootfmt{#1}%
14431 \color@endgroup}%
14432 \m@mmf@prepare}
14433 \bidi@ensure@newcommand{\@mpninecolLTRfootnotetext}[1]{%
14434 \global\setbox\@mpfootinsv@l\vbox{%
14435     \unvbox\@mpfootinsv@l
14436     \@RTLfalse
14437     \def\baselinestretch{\m@m@footnote@spacing}%
14438     \reset@font\LTRfoottextfont
14439     \hsize\columnwidth \@parboxrestore
14440     \protected@edef\@currentlabel{%
14441         \csname p@mpfootnote\endcsname\@thefnmark}%
14442 \color@begingroup
14443     \@ninecolLTRfootfmt{#1}%
14444 \color@endgroup}%
14445 \m@mmf@prepare}
14446 \newcommand{\@mpNineColLTRfootnotetext}[1]{%
14447 \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
14448 \global\setbox\@mpfootinsv@l\vbox{%
14449     \unvbox\@mpfootinsv@l
14450     \@RTLfalse
14451     \def\baselinestretch{\m@m@footnote@spacing}%
14452     \reset@font\LTRfoottextfont
14453     \hsize\columnwidth \@parboxrestore
14454     \protected@edef\@currentlabel{%
14455         \csname p@mpfootnote\endcsname\@thefnmark}%
14456 \color@begingroup
14457     \@ninecolLTRfootfmt{#1}%
14458 \color@endgroup}%
14459 \m@mmf@prepare}
14460 \bidi@ensure@newcommand{\@mpninecolRTLfootnotetext}[1]{%
14461 \global\setbox\@mpfootinsv@r\vbox{%
14462     \unvbox\@mpfootinsv@r
14463     \@RTLtrue
14464     \def\baselinestretch{\m@m@footnote@spacing}%
14465     \reset@font\RTLfoottextfont
14466     \hsize\columnwidth \@parboxrestore
14467     \protected@edef\@currentlabel{%
14468         \csname p@mpfootnote\endcsname\@thefnmark}%
14469 \color@begingroup
14470     \@ninecolRTLfootfmt{#1}%
14471 \color@endgroup}%
14472 \m@mmf@prepare}
14473 \newcommand{\@mpNineColRTLfootnotetext}[1]{%
14474 \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
14475 \global\setbox\@mpfootinsv@r\vbox{%
14476     \unvbox\@mpfootinsv@r
14477     \@RTLtrue
14478     \def\baselinestretch{\m@m@footnote@spacing}%
14479     \reset@font\RTLfoottextfont
14480     \hsize\columnwidth \@parboxrestore
14481     \protected@edef\@currentlabel{%

```



```

14482     \csname p@mpfootnote\endcsname\@thefnmark}%
14483 \color@begingroup
14484     \@ninecolRTLfootfmt{#1}%
14485 \color@endgroup}%
14486 \m@mmf@prepare}
14487 \bidi@ensure@newcommand{\m@make@ninecol@footgroup}[1]{%
14488 \@namedef{@ninecol@footgroup#1}{%
14489 \def\baselinestretch{\m@m@footnote@spacing}%
14490 \hsize\bidi@columnwidth
14491 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
14492 \m@r@rigidbalance{\@nameuse{footins#1}}{9}{\splittopskip}}}}
14493 \newcommand{\bidi@make@ninecol@LTRfootgroup}[1]{%
14494 \@namedef{@ninecol@LTRfootgroup#1}{%
14495 \def\baselinestretch{\m@m@footnote@spacing}%
14496 \hsize\bidi@columnwidth
14497 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
14498 \bidi@LTR@rigidbalance{\@nameuse{footins#1}}{9}{\splittopskip}}}}
14499 \bidi@ensure@newcommand{\m@make@mpninecol@footgroup}[1]{%
14500 \@namedef{@mpninecol@footgroup#1}{%
14501 \def\baselinestretch{\m@m@footnote@spacing}%
14502 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
14503 \m@r@rigidbalance{\@nameuse{mpfootins#1}}{9}{\splittopskip}}}}
14504 \newcommand{\bidi@make@mpninecol@LTRfootgroup}[1]{%
14505 \@namedef{@mpninecol@LTRfootgroup#1}{%
14506 \def\baselinestretch{\m@m@footnote@spacing}%
14507 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
14508 \bidi@LTR@rigidbalance{\@nameuse{mpfootins#1}}{9}{\splittopskip}}}}
14509 \bidi@ensure@newcommand{\tencolumnfootnotes}{%
14510 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
14511 \@namedef{foottextfontv@l}{\LTRfoottextfont}%
14512 \@bidi@before@Hy@hyperfootnotes
14513 \let\@footnotetext\@tencolfootnotetext
14514 \let\@LTRfootnotetext\@tencolLTRfootnotetext
14515 \let\@RTLfootnotetext\@tencolRTLfootnotetext
14516 \dimen\footinsv@r=10\footinsdim
14517 \count\footinsv@r=100\relax
14518 \m@make@tencol@footgroup{v@r}%
14519 \let\@footgroupv@r\@tencol@footgroupv@r
14520 \dimen\footinsv@l=10\footinsdim
14521 \count\footinsv@l=100\relax
14522 \bidi@make@tencol@LTRfootgroup{v@l}%
14523 \let\@LTRfootgroupv@l\@tencol@LTRfootgroupv@l
14524 \let\@mpfootnotetext\@mptencolfootnotetext
14525 \let\@mpLTRfootnotetext\@mptencolLTRfootnotetext
14526 \let\@mpRTLfootnotetext\@mptencolRTLfootnotetext
14527 \@bidi@after@Hy@hyperfootnotes
14528 \m@make@mptencol@footgroup{v@r}%
14529 \let\mp@footgroupv@r\@mptencol@footgroupv@r
14530 \bidi@make@mptencol@LTRfootgroup{v@l}%
14531 \let\mp@LTRfootgroupv@l\@mptencol@LTRfootgroupv@l
14532 \ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
14533 }
14534 \newcommand{\TenColumnFootnotes}{%
14535 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]

```



```

14536 \@namedef{foottextfontv@1}{\LTRfoottextfont}%
14537 \@bidi@before@Hy@hyperfootnotes
14538 \let@footnotetext@TenColfootnotetext
14539 \let@LTRfootnotetext@TenColLTRfootnotetext
14540 \let@RTLfootnotetext@TenColRTLfootnotetext
14541 \dimen\footinsv@r=10\footinsdim
14542 \count\footinsv@r=100\relax
14543 \m@make@tencol@footgroup{v@r}%
14544 \let@footgroupv@r@tencol@footgroupv@r
14545 \dimen\footinsv@l=10\footinsdim
14546 \count\footinsv@l=100\relax
14547 \bidi@make@tencol@LTRfootgroup{v@l}%
14548 \let@LTRfootgroupv@l@tencol@LTRfootgroupv@l
14549 \let@mpfootnotetext@mpTenColfootnotetext
14550 \let@mpLTRfootnotetext@mpTenColLTRfootnotetext
14551 \let@mpRTLfootnotetext@mpTenColRTLfootnotetext
14552 \@bidi@after@Hy@hyperfootnotes
14553 \m@make@mptencol@footgroup{v@r}%
14554 \let@mp@footgroupv@r@mptencol@footgroupv@r
14555 \bidi@make@mptencol@LTRfootgroup{v@l}%
14556 \let@mp@LTRfootgroupv@l@mptencol@LTRfootgroupv@l
14557 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
14558 }
14559 \bidi@ensure@newcommand{\@tencolfootnotetext}[1]{\insert
14560   \if@RTL@footnote
14561     \footinsv@r
14562   \else
14563     \footinsv@l
14564   \fi
14565 {\if@RTL@footnote@RTLtrue\else@RTLfalse\fi%
14566   \def\baselinestretch{\m@f@footnote@spacing}%
14567   \reset@font\foottextfont
14568   \@preamfntext
14569   \protected@edef\@currentlabel{%
14570     \csname p@footnote\endcsname\@thefnmark}%
14571   \color@begingroup
14572     \@tencolfootfmt{#1}%
14573   \color@endgroup}%
14574   \m@mmf@prepare}
14575 \newcommand{\@TenColfootnotetext}[1]{%
14576   \bidi@step@absolutefootnote@count
14577   \if@RTL@footnote
14578     \bidi@reinsertfootnote\footinsv@l\@footstartv@l@LTRfootgroupv@l
14579   \else
14580     \bidi@reinsertfootnote\footinsv@r\@footstartv@r\@footgroupv@r
14581   \fi
14582   \global\setbox
14583   \if@RTL@footnote
14584     \footinsv@r
14585   \else
14586     \footinsv@l
14587   \fi
14588   \vbox{%
14589     \unvbox

```





```

14590 \if@RTL@footnote
14591   \footinsv@r
14592 \else
14593   \footinsv@l
14594 \fi
14595 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
14596 \def\baselinestretch{\m@m@footnote@spacing}%
14597 \reset@font\foottextfont
14598 \@preamfntext
14599 \protected@edef\@currentlabel{%
14600   \csname p@footnote\endcsname\@thefnmark}%
14601 \color@begingroup
14602   \@tencolfootfmt{#1}%
14603 \color@endgroup}%
14604 \m@mmf@prepare
14605 \if@RTL@footnote
14606   \bidi@reinsertfinalfootnoteperpage\footinsv@r\@footstartv@r\@footgroupv@r
14607 \else
14608   \bidi@reinsertfinalfootnoteperpage\footinsv@l\@footstartv@l\@LTRfootgroupv@l
14609 \fi
14610 }
14611 \bidi@ensure@newcommand{\@tencolLTRfootnotetext}[1]{\insert\footinsv@l{\@RTLfalse%
14612 \def\baselinestretch{\m@m@footnote@spacing}%
14613 \reset@font\LTRfoottextfont
14614 \@preamfntext
14615 \protected@edef\@currentlabel{%
14616   \csname p@footnote\endcsname\@thefnmark}%
14617 \color@begingroup
14618   \@tencolLTRfootfmt{#1}%
14619 \color@endgroup}%
14620 \m@mmf@prepare}
14621 \newcommand{\@TenColLTRfootnotetext}[1]{%
14622 \bidi@step@absolute@footnote@count
14623 \bidi@reinsertfootnote\footinsv@r\@footstartv@r\@footgroupv@r
14624 \global\setbox\footinsv@l\vbox{%
14625 \unvbox\footinsv@l
14626 \@RTLfalse%
14627 \def\baselinestretch{\m@m@footnote@spacing}%
14628 \reset@font\LTRfoottextfont
14629 \@preamfntext
14630 \protected@edef\@currentlabel{%
14631   \csname p@footnote\endcsname\@thefnmark}%
14632 \color@begingroup
14633   \@tencolLTRfootfmt{#1}%
14634 \color@endgroup}%
14635 \m@mmf@prepare
14636 \bidi@reinsertfinalfootnoteperpage\footinsv@l\@footstartv@l\@LTRfootgroupv@l
14637 }
14638 \bidi@ensure@newcommand{\@tencolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
14639 \def\baselinestretch{\m@m@footnote@spacing}%
14640 \reset@font\RTLfoottextfont
14641 \@preamfntext
14642 \protected@edef\@currentlabel{%
14643   \csname p@footnote\endcsname\@thefnmark}%

```



```

14644 \color@begingroup
14645   \@tencolRTLfootfmt{#1}%
14646 \color@endgroup}%
14647 \m@mmf@prepare}
14648 \newcommand{\@TenColRTLfootnotetext}[1]{%
14649   \bidi@step@absolutefootnote@count
14650   \bidi@reinsertfootnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l
14651   \global\setbox\footinsv@r\vbox{%
14652     \unvbox\footinsv@r
14653     \@RTLtrue
14654     \def\baselinestretch{\m@m@footnote@spacing}%
14655     \reset@font\RTLfoottextfont
14656     \@preamfntext
14657     \protected@edef\@currentlabel{%
14658       \csname p@footnote\endcsname\@thefnmark}%
14659     \color@begingroup
14660       \@tencolRTLfootfmt{#1}%
14661     \color@endgroup}%
14662     \m@mmf@prepare
14663     \bidi@reinsertfinalfootnoteperpage\footinsv@r\@footstartv@r\@footgroupv@r
14664 }
14665 \bidi@ensure@newcommand{\@preamtenfmt}{%
14666   \hspace .1\hspace
14667   \parindent=\z@
14668   \tolerance=5000\relax
14669   \leavevmode}
14670 \bidi@ensure@newcommand{\@tencolfootfmt}[1]{%
14671   \@preamtenfmt
14672   {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
14673 \bidi@ensure@newcommand{\@tencolLTRfootfmt}[1]{%
14674   \@preamtenfmt
14675   {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
14676 \bidi@ensure@newcommand{\@tencolRTLfootfmt}[1]{%
14677   \@preamtenfmt
14678   {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
14679 \bidi@ensure@newcommand{\@mptencolfootnotetext}[1]{%
14680   \global\setbox
14681     \if@RTL@footnote
14682     \@mpfootinsv@r
14683   \else
14684     \@mpfootinsv@l
14685   \fi
14686   \vbox{%
14687     \unvbox
14688     \if@RTL@footnote
14689     \@mpfootinsv@r
14690   \else
14691     \@mpfootinsv@l
14692   \fi
14693   \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
14694   \def\baselinestretch{\m@m@footnote@spacing}%
14695   \reset@font\foottextfont
14696   \hspace\columnwidth \@parboxrestore
14697   \protected@edef\@currentlabel{%

```



```

14698     \csname p@mpfootnote\endcsname\@thefnmark}%
14699 \color@begingroup
14700     \@tencolfootfmt{#1}%
14701 \color@endgroup}%
14702 \m@mmf@prepare}
14703 \newcommand{\@mpTenColfootnotetext}[1]{%
14704     \if@RTL@footnote
14705     \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
14706 \else
14707     \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
14708 \fi
14709 \global\setbox
14710     \if@RTL@footnote
14711     \@mpfootinsv@r
14712 \else
14713     \@mpfootinsv@l
14714 \fi
14715 \vbox{%
14716     \unvbox
14717     \if@RTL@footnote
14718     \@mpfootinsv@r
14719 \else
14720     \@mpfootinsv@l
14721 \fi
14722     \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
14723     \def\baselinestretch{\m@m@footnote@spacing}%
14724     \reset@font\foottextfont
14725     \hsize\columnwidth \@parboxrestore
14726     \protected@edef\@currentlabel{%
14727         \csname p@mpfootnote\endcsname\@thefnmark}%
14728 \color@begingroup
14729     \@tencolfootfmt{#1}%
14730 \color@endgroup}%
14731 \m@mmf@prepare}
14732 \bidi@ensure@newcommand{\@mptencollTRfootnotetext}[1]{%
14733 \global\setbox\@mpfootinsv@l\vbox{%
14734     \unvbox\@mpfootinsv@l
14735     \@RTLfalse
14736     \def\baselinestretch{\m@m@footnote@spacing}%
14737     \reset@font\LTRfoottextfont
14738     \hsize\columnwidth \@parboxrestore
14739     \protected@edef\@currentlabel{%
14740         \csname p@mpfootnote\endcsname\@thefnmark}%
14741 \color@begingroup
14742     \@tencollTRfootfmt{#1}%
14743 \color@endgroup}%
14744 \m@mmf@prepare}
14745 \newcommand{\@mpTenCollTRfootnotetext}[1]{%
14746     \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
14747 \global\setbox\@mpfootinsv@l\vbox{%
14748     \unvbox\@mpfootinsv@l
14749     \@RTLfalse
14750     \def\baselinestretch{\m@m@footnote@spacing}%
14751     \reset@font\LTRfoottextfont

```



```

14752 \hsize\columnwidth \@parboxrestore
14753 \protected@edef\@currentlabel{%
14754 \csname p@mpfootnote\endcsname\@thefnmark}%
14755 \color@begingroup
14756 \@tencolLTRfootfmt{#1}%
14757 \color@endgroup}%
14758 \m@mmf@prepare}
14759 \bidi@ensure@newcommand{\@mptencolRTLfootnotetext}[1]{%
14760 \global\setbox\@mpfootinsv@r\vbox{%
14761 \unvbox\@mpfootinsv@r
14762 \@RTLtrue
14763 \def\baselinestretch{\m@m@footnote@spacing}%
14764 \reset@font\RTLfoottextfont
14765 \hsize\columnwidth \@parboxrestore
14766 \protected@edef\@currentlabel{%
14767 \csname p@mpfootnote\endcsname\@thefnmark}%
14768 \color@begingroup
14769 \@tencolRTLfootfmt{#1}%
14770 \color@endgroup}%
14771 \m@mmf@prepare}
14772 \newcommand{\@mpTenColRTLfootnotetext}[1]{%
14773 \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
14774 \global\setbox\@mpfootinsv@r\vbox{%
14775 \unvbox\@mpfootinsv@r
14776 \@RTLtrue
14777 \def\baselinestretch{\m@m@footnote@spacing}%
14778 \reset@font\RTLfoottextfont
14779 \hsize\columnwidth \@parboxrestore
14780 \protected@edef\@currentlabel{%
14781 \csname p@mpfootnote\endcsname\@thefnmark}%
14782 \color@begingroup
14783 \@tencolRTLfootfmt{#1}%
14784 \color@endgroup}%
14785 \m@mmf@prepare}
14786 \bidi@ensure@newcommand{\m@make@tencol@footgroup}[1]{%
14787 \@namedef{@tencol@footgroup#1}{%
14788 \def\baselinestretch{\m@m@footnote@spacing}%
14789 \hsize\@bidi@columnwidth
14790 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
14791 \m@mrigidbalance{\@nameuse{footins#1}}{10}{\splittopskip}}}}
14792 \newcommand{\bidi@make@tencol@LTRfootgroup}[1]{%
14793 \@namedef{@tencol@LTRfootgroup#1}{%
14794 \def\baselinestretch{\m@m@footnote@spacing}%
14795 \hsize\@bidi@columnwidth
14796 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
14797 \bidi@LTRrigidbalance{\@nameuse{footins#1}}{10}{\splittopskip}}}}
14798 \bidi@ensure@newcommand{\m@make@mptencol@footgroup}[1]{%
14799 \@namedef{@mptencol@footgroup#1}{%
14800 \def\baselinestretch{\m@m@footnote@spacing}%
14801 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
14802 \m@mrigidbalance{\@nameuse{@mpfootins#1}}{10}{\splittopskip}}}}
14803 \newcommand{\bidi@make@mptencol@LTRfootgroup}[1]{%
14804 \@namedef{@mptencol@LTRfootgroup#1}{%
14805 \def\baselinestretch{\m@m@footnote@spacing}%

```



```

14806 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
14807 \bidi@LTRrigidbalance{\@nameuse{mpfootins#1}}{10}{\splittopskip}}
14808 \bidi@ensure@newcommand{\m@munvxh}[1]{%
14809   \setbox0=\vbox{\unvbox#1%
14810     \global\setbox1=\lastbox}%
14811   \unhbox1
14812   \unskip
14813   \unskip
14814   \unpenalty
14815   \hskip\m@mipn@skip}
14816 \bidi@ensure@newcommand{\m@mungebox}{%
14817   \setbox0=\hbox{\m@munvxh0}%
14818   \dp0=\z@
14819   \ht0=\footfudgefactor\wd0
14820   \box0
14821   \penalty0}
14822 \newskip\m@mipn@skip
14823 \bidi@ensure@newcommand*{\m@minterparanoteglu}[1]{%
14824   {\foottextfont\global\m@mipn@skip=#1\relax}}
14825 \m@minterparanoteglu{1em plus.3em minus.3em}
14826 \bidi@ensure@newcommand*{\m@mmakehboxofhboxes}{%
14827   \setbox0=\hbox{}%
14828   \loop
14829     \unpenalty
14830     \setbox2=\lastbox
14831     \ifhbox2
14832       \setbox0=\hbox{\box2\unhbox0}
14833     \repeat}
14834 \bidi@ensure@newcommand*{\m@mremovehboxes}{\setbox0=\lastbox
14835   \ifhbox0{\m@mremovehboxes}\unhbox0 \fi}
14836 \newcommand*{\AddExtraParaSkip}[1]{%
14837   \def\bidi@xparaskip{\advance\@tempdima#1\relax}%
14838 }
14839 \let\bidi@xparaskip\relax
14840 \@onlypreamble\AddExtraParaSkip
14841 \@onlypreamble\bidi@xparaskip
14842 \def\bidi@startparafootskip#1{%
14843   \global\advance\skip#1\bidi@paraskip
14844 }
14845 \@onlypreamble\bidi@startparafootskip
14846 \bidi@ensure@newcommand{\paragraphfootnotes}{%
14847   \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
14848   \@namedef{foottextfontv@l}{\LTRfoottextfont}%
14849   \@bidi@before@Hy@hyperfootnotes
14850   \let\@footnotetext\@parafootnotetext
14851   \let\@LTRfootnotetext\@paraLTRfootnotetext
14852   \let\@RTLfootnotetext\@paraRTLfootnotetext
14853   \dimen\footinsv@r=\footinsdim
14854   \count\footinsv@r=1000\relax
14855   \let\bidi@removexfootskip\bidi@removexparafootskip
14856   \m@make@para@footgroup{v@r}%
14857   \m@make@para@footstart{v@r}%
14858   \let\@footgroupv@r\@para@footgroupv@r
14859   \let\@footstartv@r\@para@footstartv@r

```



```

14860 \dimen\footinsv@l=\footinsdim
14861 \count\footinsv@l=1000\relax
14862 \bidi@make@para@LTRfootgroup{v@l}%
14863 \m@make@para@footstart{v@l}%
14864 \let\@LTRfootgroupv@l\@para@LTRfootgroupv@l
14865 \let\@footstartv@l\@para@footstartv@l
14866 \let\@mpfootnotetext\@mpparafootnotetext
14867 \let\@mpLTRfootnotetext\@mpparaLTRfootnotetext
14868 \let\@mpRTLfootnotetext\@mpparaRTLfootnotetext
14869 \@bidi@after@Hy@hyperfootnotes
14870 \m@make@mppara@footgroup{v@r}%
14871 \bidi@make@mppara@LTRfootgroup{v@l}%
14872 \let\mp@footgroupv@r\@mppara@footgroupv@r
14873 \let\mp@LTRfootgroupv@l\@mppara@LTRfootgroupv@l
14874 \g@addto@macro\bidi@floathook{%
14875   \begingroup
14876     \foottextfont \@tempdima\normalbaselineskip
14877     \multiply \@tempdima \@cclvi
14878     \@tempdimb \columnwidth
14879     \divide \@tempdimb \@cclvi
14880     \divide \@tempdima \@tempdimb
14881     \xdef\footfudgefactor{\strip@pt\@tempdima}%
14882   \endgroup
14883 }
14884 \AtBeginDocument{%
14885   \begingroup
14886     \foottextfont
14887     \@tempdima\footnotesep
14888     \advance\@tempdima -\ht\strutbox
14889     \ifdim\@tempdima<z@ \@tempdima z@ \fi
14890     \advance\@tempdima.5\normalbaselineskip
14891     \bidi@xparaskip
14892     \xdef\bidi@paraskip{\the\@tempdima\relax}%
14893   \endgroup
14894   \bidi@startparafootskip\footinsv@r
14895   \bidi@startparafootskip\footinsv@l
14896 }
14897 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
14898 }
14899 \newcommand{\ParagraphFootnotes}{%
14900   \@namedef{foottextfontv@r}{\foottextfont}%
14901   \@namedef{foottextfontv@l}{\LTRfoottextfont}%
14902   \@bidi@before@Hy@hyperfootnotes
14903   \let\@footnotetext\@Parafootnotetext
14904   \let\@LTRfootnotetext\@ParaLTRfootnotetext
14905   \let\@RTLfootnotetext\@ParaRTLfootnotetext
14906   \dimen\footinsv@r=\footinsdim
14907   \count\footinsv@r=1000\relax
14908   \let\bidi@removexfootskip\bidi@removexparafootskip
14909   \m@make@para@footgroup{v@r}%
14910   \m@make@para@footstart{v@r}%
14911   \let\@footgroupv@r\@para@footgroupv@r
14912   \let\@footstartv@r\@para@footstartv@r
14913   \dimen\footinsv@l=\footinsdim

```



```

14914 \count\footinsv@l=1000\relax
14915 \bidi@make@para@LTRfootgroup{v@l}%
14916 \m@make@para@footstart{v@l}%
14917 \let\@LTRfootgroupv@l\@para@LTRfootgroupv@l
14918 \let\@footstartv@l\@para@footstartv@l
14919 \let\@mpfootnotetext\@mpParafootnotetext
14920 \let\@mpLTRfootnotetext\@mpParaLTRfootnotetext
14921 \let\@mpRTLfootnotetext\@mpParaRTLfootnotetext
14922 \@bidi@after@Hy@hyperfootnotes
14923 \m@make@mppara@footgroup{v@r}%
14924 \bidi@make@mppara@LTRfootgroup{v@l}%
14925 \let\mp@footgroupv@r\@mppara@footgroupv@r
14926 \let\mp@LTRfootgroupv@l\@mppara@LTRfootgroupv@l
14927 \g@addto@macro\bidi@floodhook{%
14928   \begingroup
14929     \foottextfont \@tempdima\normalbaselineskip
14930     \multiply \@tempdima \@cclvi
14931     \@tempdimb \columnwidth
14932     \divide \@tempdimb \@cclvi
14933     \divide \@tempdima \@tempdimb
14934     \xdef\footfudgefactor{\strip@pt\@tempdima}%
14935   \endgroup
14936 }
14937 \AtBeginDocument{%
14938   \begingroup
14939     \foottextfont
14940     \@tempdima\footnotesep
14941     \advance\@tempdima -\ht\strutbox
14942     \ifdim\@tempdima<z@ \@tempdima z@ \fi
14943     \advance\@tempdima.5\normalbaselineskip
14944     \bidi@xparaskip
14945     \xdef\bidi@paraskip{\the\@tempdima\relax}%
14946   \endgroup
14947   \bidi@startparafootskip\footinsv@r
14948   \bidi@startparafootskip\footinsv@l
14949 }
14950 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
14951 }
14952 \newcommand{\normalRTLparaLTRfootnotes}{%
14953   \@namedef{foottextfontv@l}{\LTRfoottextfont}%
14954   \@bidi@before@Hy@hyperfootnotes
14955   \if@RTL@footnote
14956     \let\@footnotetext\m@mold@footnotetext
14957   \else
14958     \let\@footnotetext\@parafootnotetext
14959   \fi
14960   \let\@LTRfootnotetext\@paraLTRfootnotetext
14961   \let\@RTLfootnotetext\m@mold@RTLfootnotetext
14962   \dimen\footinsv@l=\footinsdim
14963   \count\footinsv@l=1000\relax
14964   \let\bidi@removexfootskip\bidi@removexparafootskip
14965   \bidi@make@para@LTRfootgroup{v@l}%
14966   \m@make@para@footstart{v@l}%
14967   \let\@LTRfootgroupv@l\@para@LTRfootgroupv@l

```



```

14968 \let\@footstartv@1\@para@footstartv@1
14969 \if@RTL@footnote
14970   \let\@mpfootnotetext\m@mold@mpfootnotetext
14971 \else
14972   \let\@mpfootnotetext\@mpparafootnotetext
14973 \fi
14974 \let\@mpLTRfootnotetext\@mpparaLTRfootnotetext
14975 \let\@mpRTLfootnotetext\m@mold@mpRTLfootnotetext
14976 \@bidi@after@Hy@hyperfootnotes
14977 \bidi@make@ppara@LTRfootgroup{v@1}%
14978 \let\mp@LTRfootgroupv@1\@mppara@LTRfootgroupv@1
14979 \g@addto@macro\bidi@floathook{%
14980   \begingroup
14981     \LTRfoottextfont \@tempdima\normalbaselineskip
14982     \multiply \@tempdima \@cclvi
14983     \@tempdimb \columnwidth
14984     \divide \@tempdimb \@cclvi
14985     \divide \@tempdima \@tempdimb
14986     \xdef\footfudgefactor{\strip@pt\@tempdima}%
14987   \endgroup
14988 }
14989 \AtBeginDocument{%
14990   \begingroup
14991     \LTRfoottextfont
14992     \@tempdima\footnotesep
14993     \advance\@tempdima -\ht\strutbox
14994     \ifdim\@tempdima<z@ \@tempdima\z@ \fi
14995     \advance\@tempdima.5\normalbaselineskip
14996     \bidi@xparaskip
14997     \xdef\bidi@paraskip{\the\@tempdima\relax}%
14998   \endgroup
14999   \bidi@startparafootskip\footinsv@1
15000 }
15001 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
15002 }
15003 \newcommand{\NormalRTLParaLTRFootnotes}{%
15004   \@namedef{foottextfontv@1}{\LTRfoottextfont}%
15005   \@bidi@before@Hy@hyperfootnotes
15006   \if@RTL@footnote
15007     \let\@footnotetext\bidi@bidiold@footnotetext
15008   \else
15009     \let\@footnotetext\@Parafootnotetext
15010   \fi
15011   \let\@LTRfootnotetext\@ParaLTRfootnotetext
15012   \let\@RTLfootnotetext\bidi@bidiold@RTLfootnotetext
15013   \dimen\footinsv@1=\footinsdim
15014   \count\footinsv@1=1000\relax
15015   \let\bidi@removexfootskip\bidi@removexparafootskip
15016   \bidi@make@para@LTRfootgroup{v@1}%
15017   \m@make@para@footstart{v@1}%
15018   \let\@LTRfootgroupv@1\@para@LTRfootgroupv@1
15019   \let\@footstartv@1\@para@footstartv@1
15020   \if@RTL@footnote
15021     \let\@mpfootnotetext\bidi@bidiold@mpfootnotetext

```





```

15022 \else
15023   \let\@mpfootnotetext\@mpParafootnotetext
15024 \fi
15025 \let\@mpLTRfootnotetext\@mpParaLTRfootnotetext
15026 \let\@mpRTLfootnotetext\@bidi@bidiold@mpRTLfootnotetext
15027 \@bidi@after@Hy@hyperfootnotes
15028 \bidi@make@mppara@LTRfootgroup{v@1}%
15029 \let\mp@LTRfootgroupv@1\@mppara@LTRfootgroupv@1
15030 \g@addto@macro\bidi@floathook{%
15031   \begingroup
15032     \LTRfoottextfont \@tempdima\normalbaselineskip
15033     \multiply \@tempdima \@cclvi
15034     \@tempdimb \columnwidth
15035     \divide \@tempdimb \@cclvi
15036     \divide \@tempdima \@tempdimb
15037     \xdef\footfudgefactor{\strip@pt\@tempdima}%
15038   \endgroup
15039 }
15040 \AtBeginDocument{%
15041   \begingroup
15042     \LTRfoottextfont
15043     \@tempdima\footnotesep
15044     \advance\@tempdima -\ht\strutbox
15045     \ifdim\@tempdima<\z@ \@tempdima\z@ \fi
15046     \advance\@tempdima.5\normalbaselineskip
15047     \bidi@xparaskip
15048     \xdef\bidi@paraskip{\the\@tempdima\relax}%
15049   \endgroup
15050   \bidi@startparafootskip\footinsv@1
15051 }
15052 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
15053 }
15054 \bidi@ensure@newcommand{\@parafootnotetext}[1]{\insert
15055   \if@RTL@footnote
15056     \footinsv@r
15057   \else
15058     \footinsv@l
15059   \fi
15060   {%
15061     \let\bidi@RTL@everypar\@empty%
15062     \def\baselinestretch{\m@m@footnote@spacing}%
15063     \reset@font\foottextfont
15064     \@preamfntext
15065     \protected@edef\@currentlabel{%
15066       \csname p@footnote\endcsname\@thefnmark}%
15067     \setbox0=\vbox{\hsize=\maxdimen
15068       \color@begingroup
15069       \noindent \@parafootfmt{#1}%
15070       \color@endgroup}%
15071     \m@mungebox}\m@mmf@prepare}
15072 \newcommand{\@Parafootnotetext}[1]{%
15073   \bidi@step@absolutefootnote@count
15074   \if@RTL@footnote
15075     \bidi@reinsertfootnote\footinsv@l\@footstartv@1\@LTRfootgroupv@1

```



```

15076 \else
15077   \bidi@reinsertfootnote\footinsv@r\@footstartv@r\@footgroupv@r
15078 \fi
15079 \global\setbox
15080 \if@RTL@footnote
15081   \footinsv@r
15082 \else
15083   \footinsv@l
15084 \fi
15085 \vbox{%
15086 \unvbox
15087 \if@RTL@footnote
15088   \footinsv@r
15089 \else
15090   \footinsv@l
15091 \fi
15092 \let\bidi@RTL@everypar\@empty%
15093 \def\baselinestretch{\m@m@footnote@spacing}%
15094 \reset@font\foottextfont
15095 \@preamfntext
15096 \protected@edef\@currentlabel{%
15097   \csname p@footnote\endcsname\@thefnmark}%
15098 \setbox0=\vbox{\hsize=\maxdimen
15099   \color@begingroup
15100   \noindent \@parafootfmt{#1}%
15101   \color@endgroup}%
15102 \m@mungebox}\m@mmf@prepare
15103 \if@RTL@footnote
15104   \bidi@reinsertfinalfootnoteperpage\footinsv@r\@footstartv@r\@footgroupv@r
15105 \else
15106   \bidi@reinsertfinalfootnoteperpage\footinsv@l\@footstartv@l\@LTRfootgroupv@l
15107 \fi
15108 }
15109 \bidi@ensure@newcommand{\@paraLTRfootnotetext}[1]{\insert\footinsv@l{%
15110 \let\bidi@RTL@everypar\@empty%
15111 \def\baselinestretch{\m@m@footnote@spacing}%
15112 \reset@font\LTRfoottextfont
15113 \@preamfntext
15114 \protected@edef\@currentlabel{%
15115   \csname p@footnote\endcsname\@thefnmark}%
15116 \setbox0=\vbox{\hsize=\maxdimen
15117   \color@begingroup
15118   \noindent \@paraLTRfootfmt{#1}%
15119   \color@endgroup}%
15120 \m@mungebox}\m@mmf@prepare}
15121 \newcommand{\@ParaLTRfootnotetext}[1]{%
15122 \bidi@step@absolutefootnote@count
15123 \bidi@reinsertfootnote\footinsv@r\@footstartv@r\@footgroupv@r
15124 \global\setbox\footinsv@l\vbox{%
15125 \unvbox\footinsv@l
15126 \let\bidi@RTL@everypar\@empty%
15127 \def\baselinestretch{\m@m@footnote@spacing}%
15128 \reset@font\LTRfoottextfont
15129 \@preamfntext

```



```

15130 \protected@edef\@currentlabel{%
15131   \csname p@footnote\endcsname\@thefnmark}%
15132 \setbox0=\vbox{\hsize=\maxdimen
15133   \color@begingroup
15134   \noindent \@paraLTRfootfmt{#1}%
15135   \color@endgroup}%
15136 \m@mmungebox}\m@mmf@prepare
15137 \bidi@reinsertfinalfootnoteperpage\footinsv@1\@footstartv@1\@LTRfootgroupv@1
15138 }
15139 \bidi@ensure@newcommand{\@paraRTLfootnotetext}[1]{\insert\footinsv@r{%
15140   \let\bidi@RTL@everypar\@empty%
15141   \def\baselinestretch{\m@mm@footnote@spacing}%
15142   \reset@font\RTLfoottextfont
15143   \@preamfntext
15144   \protected@edef\@currentlabel{%
15145     \csname p@footnote\endcsname\@thefnmark}%
15146   \setbox0=\vbox{\hsize=\maxdimen
15147     \color@begingroup
15148     \noindent \@paraRTLfootfmt{#1}%
15149     \color@endgroup}%
15150   \m@mmungebox}\m@mmf@prepare}
15151 \newcommand{\@ParaRTLfootnotetext}[1]{%
15152   \bidi@step@absolutefootnote@count
15153   \bidi@reinsertfootnote\footinsv@1\@footstartv@1\@LTRfootgroupv@1
15154   \global\setbox\footinsv@r\vbox{%
15155     \unvbox\footinsv@r
15156     \let\bidi@RTL@everypar\@empty%
15157     \def\baselinestretch{\m@mm@footnote@spacing}%
15158     \reset@font\RTLfoottextfont
15159     \@preamfntext
15160     \protected@edef\@currentlabel{%
15161       \csname p@footnote\endcsname\@thefnmark}%
15162     \setbox0=\vbox{\hsize=\maxdimen
15163       \color@begingroup
15164       \noindent \@paraRTLfootfmt{#1}%
15165       \color@endgroup}%
15166     \m@mmungebox}\m@mmf@prepare
15167     \bidi@reinsertfinalfootnoteperpage\footinsv@r\@footstartv@r\@footgroupv@r
15168 }
15169 \bidi@ensure@newcommand{\@parafootfmt}[1]{%
15170   \parindent=\z@
15171   \parfillskip=0pt \@plus 1fil
15172   {\footfootmark\strut {\foottextfont #1}\penalty-10}}
15173 \bidi@ensure@newcommand{\@paraLTRfootfmt}[1]{%
15174   \parindent=\z@
15175   \parfillskip=0pt \@plus 1fil
15176   {\LTRfootfootmark\strut {\LTRfoottextfont #1}\penalty-10}}
15177 \bidi@ensure@newcommand{\@paraRTLfootfmt}[1]{%
15178   \parindent=\z@
15179   \parfillskip=0pt \@plus 1fil
15180   {\RTLfootfootmark\strut {\RTLfoottextfont #1}\penalty-10}}
15181 \bidi@ensure@newcommand{\@mpparafootnotetext}[1]{%
15182   \global\setbox
15183   \if@RTL@footnote

```



```

15184 \mpfootinsv@r
15185 \else
15186 \mpfootinsv@l
15187 \fi
15188 \vbox{%
15189 \unvbox
15190 \if@RTL@footnote
15191 \mpfootinsv@r
15192 \else
15193 \mpfootinsv@l
15194 \fi
15195 \let\ bidi@RTL@everypar@empty
15196 \def\baselinestretch{\m@m@footnote@spacing}%
15197 \reset@font\foottextfont
15198 \hsize\columnwidth \@parboxrestore
15199 \protected@edef\@currentlabel{%
15200 \csname p@mpfootnote\endcsname\@thefnmark}%
15201 \setbox0=\vbox{\hsize=\maxdimen
15202 \color@begingroup
15203 \noindent \@parafootfmt{#1}%
15204 \color@endgroup}%
15205 \m@mungebox}\m@mmf@prepare}
15206 \newcommand{\@mpParafootnotetext}[1]{%
15207 \if@RTL@footnote
15208 \ bidi@joinmpfootnotes\mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
15209 \else
15210 \ bidi@joinmpfootnotes\mpfootinsv@r\@footstartv@r\mp@footgroupv@r
15211 \fi
15212 \global\setbox
15213 \if@RTL@footnote
15214 \mpfootinsv@r
15215 \else
15216 \mpfootinsv@l
15217 \fi
15218 \vbox{%
15219 \unvbox
15220 \if@RTL@footnote
15221 \mpfootinsv@r
15222 \else
15223 \mpfootinsv@l
15224 \fi
15225 \let\ bidi@RTL@everypar@empty
15226 \def\baselinestretch{\m@m@footnote@spacing}%
15227 \reset@font\foottextfont
15228 \hsize\columnwidth \@parboxrestore
15229 \protected@edef\@currentlabel{%
15230 \csname p@mpfootnote\endcsname\@thefnmark}%
15231 \setbox0=\vbox{\hsize=\maxdimen
15232 \color@begingroup
15233 \noindent \@parafootfmt{#1}%
15234 \color@endgroup}%
15235 \m@mungebox}\m@mmf@prepare}
15236 \ bidi@ensure@newcommand{\@mpparaLTRfootnotetext}[1]{%
15237 \global\setbox\mpfootinsv@l\vbox{%

```



```

15238 \unvbox\@mpfootinsv@l
15239 \let\bidirTL@everypar\@empty
15240 \def\baselinestretch{\m@m@footnote@spacing}%
15241 \reset@font\LTRfoottextfont
15242 \hsize\columnwidth \@parboxrestore
15243 \protected@edef\@currentlabel{%
15244   \csname p@mpfootnote\endcsname\@thefnmark}%
15245 \setbox0=\vbox{\hsize=\maxdimen
15246   \color@begingroup
15247   \noindent \@paraLTRfootfmt{#1}%
15248   \color@endgroup}%
15249 \m@mungebox}\m@mmf@prepare}
15250 \newcommand{\@mpParaLTRfootnotetext}[1]{%
15251   \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
15252   \global\setbox\@mpfootinsv@l\vbox{%
15253     \unvbox\@mpfootinsv@l
15254     \let\bidirTL@everypar\@empty
15255     \def\baselinestretch{\m@m@footnote@spacing}%
15256     \reset@font\LTRfoottextfont
15257     \hsize\columnwidth \@parboxrestore
15258     \protected@edef\@currentlabel{%
15259       \csname p@mpfootnote\endcsname\@thefnmark}%
15260     \setbox0=\vbox{\hsize=\maxdimen
15261       \color@begingroup
15262       \noindent \@paraLTRfootfmt{#1}%
15263       \color@endgroup}%
15264     \m@mungebox}\m@mmf@prepare}
15265 \bidi@ensure@newcommand{\@mpparaRTLfootnotetext}[1]{%
15266   \global\setbox\@mpfootinsv@r\vbox{%
15267     \unvbox\@mpfootinsv@r
15268     \let\bidirTL@everypar\@empty
15269     \def\baselinestretch{\m@m@footnote@spacing}%
15270     \reset@font\RTLfoottextfont
15271     \hsize\columnwidth \@parboxrestore
15272     \protected@edef\@currentlabel{%
15273       \csname p@mpfootnote\endcsname\@thefnmark}%
15274     \setbox0=\vbox{\hsize=\maxdimen
15275       \color@begingroup
15276       \noindent \@paraRTLfootfmt{#1}%
15277       \color@endgroup}%
15278     \m@mungebox}\m@mmf@prepare}
15279 \newcommand{\@mpParaRTLfootnotetext}[1]{%
15280   \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
15281   \global\setbox\@mpfootinsv@r\vbox{%
15282     \unvbox\@mpfootinsv@r
15283     \let\bidirTL@everypar\@empty
15284     \def\baselinestretch{\m@m@footnote@spacing}%
15285     \reset@font\RTLfoottextfont
15286     \hsize\columnwidth \@parboxrestore
15287     \protected@edef\@currentlabel{%
15288       \csname p@mpfootnote\endcsname\@thefnmark}%
15289     \setbox0=\vbox{\hsize=\maxdimen
15290       \color@begingroup
15291       \noindent \@paraRTLfootfmt{#1}%

```



```

15292     \color@endgroup}%
15293   \m@mungebox}\m@mmf@prepare}
15294 \bidi@ensure@newcommand{\m@make@para@footgroup}[1]{%
15295 \@namedef{@para@footgroup#1}{%
15296   \unvbox\@nameuse{footins#1}
15297   \@RTLtrue
15298   \m@mmakehboxofhboxes
15299   \setbox0=\hbox{\unhbox0 \m@mremovehboxes}%
15300   \hsize\bidi@columnwidth
15301   \@parboxrestore
15302   \def\baselinestretch{\m@m@footnote@spacing}%
15303   \@nameuse{foottextfont#1}%
15304   \noindent\unhbox0\par}}
15305 \bidi@ensure@newcommand{\bidi@make@para@LTRfootgroup}[1]{%
15306 \@namedef{@para@LTRfootgroup#1}{%
15307   \unvbox\@nameuse{footins#1}
15308   \@RTLfalse
15309   \m@mmakehboxofhboxes
15310   \setbox0=\hbox{\unhbox0 \m@mremovehboxes}%
15311   \hsize\bidi@columnwidth
15312   \@parboxrestore
15313   \def\baselinestretch{\m@m@footnote@spacing}%
15314   \@nameuse{foottextfont#1}%
15315   \noindent\unhbox0\par}}
15316 \newcommand{\bidi@removexparafootskip}{%
15317   \advance\@tempskipa -\bidi@paraskip
15318   \edef\bidi@footskip{\vskip\the\@tempskipa\relax}%
15319 }
15320 \let\bidi@removexfootskip\relax
15321 \bidi@ensure@newcommand{\m@make@mppara@footgroup}[1]{%
15322 \@namedef{@mppara@footgroup#1}{%
15323   \unvbox\@nameuse{@mpfootins#1}
15324   \@RTLtrue
15325   \m@mmakehboxofhboxes
15326   \setbox0=\hbox{\unhbox0 \m@mremovehboxes}%
15327   \def\baselinestretch{\m@m@footnote@spacing}%
15328   \@nameuse{foottextfont#1}%
15329   \noindent\unhbox0\par}}
15330 \bidi@ensure@newcommand{\bidi@make@mppara@LTRfootgroup}[1]{%
15331 \@namedef{@mppara@LTRfootgroup#1}{%
15332   \unvbox\@nameuse{@mpfootins#1}
15333   \@RTLfalse
15334   \m@mmakehboxofhboxes
15335   \setbox0=\hbox{\unhbox0 \m@mremovehboxes}%
15336   \def\baselinestretch{\m@m@footnote@spacing}%
15337   \@nameuse{foottextfont#1}%
15338   \noindent\unhbox0\par}}
15339 \bidi@ensure@newcommand{\m@make@para@footstart}[1]{%
15340 \@namedef{@para@footstart#1}{%
15341   \leftskip=\z@
15342   \rightskip=\z@
15343   \parindent=\z@
15344   }%
15345 }

```



```

15346 \bidi@ensure@newcommand*{\m@m@makecolfloats}{%
15347   \xdef\@freelist{\@freelist\@midlist}%
15348   \global\let\@midlist\@empty
15349   \@combinefloats}
15350 \bidi@ensure@newcommand*{\m@m@makecoltext}{%
15351   \ifvbox\@kludgeins
15352     \@makespecialcolbox
15353   \else
15354     \setbox\@outputbox \vbox to\@colht{%
15355       \@texttop
15356       \dimen@ \dp\@outputbox
15357       \unvbox \@outputbox
15358       \vskip -\dimen@
15359       \@textbottom}%
15360   \fi}
15361 \bidi@ensure@newcommand*{\m@m@makecolintro}{%
15362 \bidi@ensure@newcommand*{\m@mopfootnote}{\setbox\@outputbox \vbox{%
15363   \boxmaxdepth\@maxdepth
15364   \@tempdima\dp\@cclv
15365   \unvbox\@cclv
15366   \vskip-\@tempdima
15367   \bidi@mopfn@bottom
15368   \vskip \skip\footins
15369   \color@begingroup
15370     \normalcolor
15371     \footnoterule
15372     \unvbox \footins
15373   \color@endgroup
15374   }%
15375 }
15376 \newcommand*{\bidi@mopfootnotebf}{%
15377   \setbox\@outputbox \vbox{%
15378     \boxmaxdepth\@maxdepth
15379     \unvbox\@outputbox
15380     \bidi@mopfn@bottom
15381     \vskip\skip\footins
15382     \color@begingroup
15383       \normalcolor
15384       \footnoterule
15385       \unvbox \footins
15386     \color@endgroup
15387   }%
15388 }
15389 \gdef\mem@makecol{%
15390   \m@m@makecolintro
15391   \m@m@doextrafeet
15392   \ifvoid\footins
15393     \setbox\@outputbox \box\@cclv
15394   \else
15395     \m@mopfootnote
15396   \fi
15397   \m@m@makecolfloats
15398   \m@m@makecoltext
15399   \global \maxdepth \@maxdepth}

```



```

15400 \gdef\bidi@makecolbf{%
15401   \m@m@makecolintro
15402   \m@mdoextrafeet
15403   \setbox\@outputbox \box\@cclv
15404   \m@m@makecolfloats
15405   \ifvoid\footins
15406   \else
15407     \bidi@mopfootnotebf
15408   \fi
15409   \m@m@makecoltext
15410   \global \maxdepth \@maxdepth}
15411 \newcommand{\FeetAboveFloat}{\gdef\@makecol{\mem@makecol}}
15412 \newcommand{\FeetBelowFloat}{\gdef\@makecol{\bidi@makecolbf}}
15413 \newcommand\FeetAtBottom{\def\bidi@mopfn@bottom{\vfill\relax}}
15414 \newcommand\FeetBelowRagged{\let\bidi@mopfn@bottom\relax}
15415 \FeetAboveFloat
15416 \FeetBelowRagged
15417 \def\bidi@reinserts#1{\ifvoid#1\else
15418   \ifnum\count\@currbox>\z@
15419     \advance\@pageht \ht#1%
15420     \advance\@pageht \skip#1%
15421     \advance\@pageht \dp#1%
15422   \fi
15423   \insert#1{\unvbox#1}%
15424   \fi
15425 }
15426 \def\bidi@init@multi@footins#1{%
15427   \multiply\count#1\col@number
15428   \multiply\skip#1\col@number
15429 }
15430 \def\bidi@reinsert@footnotes#1{\ifvoid#1\else
15431   \insert#1{\fi}
15432 }
15432 \AtBeginDocument{%
15433   \bidi@preto\@doclearpage\m@mdoextrafeet
15434   \g@addto@macro\@reinserts{%
15435     \bidi@reinserts\footinsv@r
15436     \bidi@reinserts\footinsv@l
15437   }
15438   \bidi@floathook
15439   \g@addto@macro\@floatplacement{%
15440     \bidi@ifmulticol}{\bidi@floathook}%
15441   }%
15442   \if@bidi@csundef{multi@column@out}{%
15443     \onlypreamble\bidi@init@multi@footins
15444     \let\bidi@ifmulticol\@secondoftwo
15445   }{%
15446     \bidi@preto\multi@column@out\m@mdoextrafeet
15447     \g@addto@macro\init@mult@footins{%
15448       \bidi@init@multi@footins\footinsv@r
15449       \bidi@init@multi@footins\footinsv@l
15450     }%
15451     \g@addto@macro\reinsert@footnotes{%
15452       \bidi@reinsert@footnotes\footinsv@r
15453       \bidi@reinsert@footnotes\footinsv@l

```





```

15454 }%
15455 }%
15456 }

```

## 87 File extreport-xetex-bidi.def

```

15457 \ProvidesFile{extreport-xetex-bidi.def}[2017/06/09 v0.3 bidi adaptations for extreport class]
15458 \renewcommand*\l@part[2]{%
15459   \ifnum \c@tocdepth >-2\relax
15460     \addpenalty{-\@highpenalty}%
15461     \addvspace{2.25em \@plus\p@}%
15462     \begingroup
15463       \setlength\@tempdima{3em}%
15464       \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
15465       \parfillskip -\@pnumwidth
15466       {\leavevmode
15467         \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
15468         \nobreak
15469         \global\@nobreaktrue
15470         \everypar{\global\@nobreakfalse\everypar{}}%
15471       \endgroup
15472   \fi}
15473 \renewcommand*\l@chapter[2]{%
15474   \ifnum \c@tocdepth >\m@ne
15475     \addpenalty{-\@highpenalty}%
15476     \vskip 1.0em \@plus\p@
15477     \setlength\@tempdima{1.5em}%
15478     \begingroup
15479       \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
15480       \parfillskip -\@pnumwidth
15481       \leavevmode \bfseries
15482       \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
15483       \hskip -\if@RTL\rightskip\else\leftskip\fi
15484       #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
15485       \penalty\@highpenalty
15486     \endgroup
15487   \fi}
15488 \def\@makechapterhead#1{%
15489   \vspace*{50\p@}%
15490   {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi \normalfont
15491     \ifnum \c@secnumdepth >\m@ne
15492       \huge\bfseries \@chapapp\space \thechapter
15493       \par\nobreak
15494       \vskip 20\p@
15495     \fi
15496     \interlinepenalty\@M
15497     \Huge \bfseries #1\par\nobreak
15498     \vskip 40\p@
15499   }}
15500 \def\@makeschapterhead#1{%
15501   \vspace*{50\p@}%
15502   {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi
15503     \normalfont
15504     \interlinepenalty\@M

```



```

15505 \Huge \bfseries #1\par\nobreak
15506 \vskip 40\p@
15507 }
15508 \renewcommand\left@footnoterule{%
15509 \kern-3\p@
15510 \hrule\@width.4\columnwidth
15511 \kern2.6\p@}
15512 \renewcommand\right@footnoterule{%
15513 \kern-3\p@
15514 \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
15515 \kern2.6\p@}
15516 \renewenvironment{thebibliography}[1]
15517 {\chapter*{\bibname
15518 \mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}}%
15519 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
15520 \bidi@thebibliography@font@hook%
15521 \list{\@biblabel{\@arabic\c@enumiv}}%
15522 {\settowidth\labelwidth{\@biblabel{#1}}%
15523 \leftmargin\labelwidth
15524 \advance\leftmargin\labelsep
15525 \@openbib@code
15526 \usecounter{enumiv}%
15527 \let\p@enumiv\@empty
15528 \renewcommand\theenumiv{\@arabic\c@enumiv}}%
15529 \sloppy\clubpenalty4000\widowpenalty4000%
15530 \sfcode\.\@m
15531 {\def\@noitemerr
15532 {\@latex@warning{Empty `thebibliography' environment}}}%
15533 \endlist}
15534 \if@titlepage
15535 \renewcommand\maketitle{\begin{titlepage}%
15536 \let\footnotesize\small
15537 \let\right@footnoterule\relax
15538 \let\left@footnoterule\relax
15539 \let\textwidth@footnoterule\relax
15540 \let\footnote\thanks
15541 \null\vfil
15542 \vskip 60\p@
15543 \begin{center}%
15544 {\LARGE \@title \par}%
15545 \vskip 3em%
15546 {\large
15547 \lineskip .75em%
15548 \begin{tabular}[t]{c}%
15549 \@author
15550 \end{tabular}\par}%
15551 \vskip 1.5em%
15552 {\large \@date \par}% % Set date in \large size.
15553 \end{center}\par
15554 \@thanks
15555 \vfil\null
15556 \end{titlepage}%
15557 \setcounter{footnote}{0}%
15558 \global\let\thanks\relax

```



```

15559 \global\let\maketitle\relax
15560 \global\let\@thanks\@empty
15561 \global\let\@author\@empty
15562 \global\let\@date\@empty
15563 \global\let\@title\@empty
15564 \global\let\title\relax
15565 \global\let\author\relax
15566 \global\let\date\relax
15567 \global\let\and\relax
15568 }
15569 \else
15570 \renewcommand\maketitle{\par
15571 \begingroup
15572   \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
15573   \def\@makefnmark{\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
15574   \long\def\@makefntext##1{\parindent 1em\noindent
15575     \hb@xt@1.8em{%
15576       \hss\@textsuperscript{\normalfont\@thefnmark}}##1}%
15577   \if@twocolumn
15578     \ifnum \col@number=\@ne
15579       \@maketitle
15580     \else
15581       \twocolumn[\@maketitle]%
15582     \fi
15583   \else
15584     \newpage
15585     \global\@topnum\z@ % Prevents figures from going at top of page.
15586     \@maketitle
15587   \fi
15588   \thispagestyle{plain}\@thanks
15589 \endgroup
15590 \setcounter{footnote}{0}%
15591 \global\let\thanks\relax
15592 \global\let\maketitle\relax
15593 \global\let\@maketitle\relax
15594 \global\let\@thanks\@empty
15595 \global\let\@author\@empty
15596 \global\let\@date\@empty
15597 \global\let\@title\@empty
15598 \global\let\title\relax
15599 \global\let\author\relax
15600 \global\let\date\relax
15601 \global\let\and\relax
15602 }
15603 \def\@maketitle{%
15604 \newpage
15605 \null
15606 \vskip 2em%
15607 \begin{center}%
15608 \let \footnote \thanks
15609   {\LARGE \@title \par}%
15610   \vskip 1.5em%
15611   {\large
15612     \lineskip .5em%

```



```

15613     \begin{tabular}[t]{c}%
15614         \@author
15615     \end{tabular}\par}%
15616     \vskip 1em%
15617     {\large \@date}%
15618 \end{center}%
15619 \par
15620 \vskip 1.5em}
15621 \fi
15622 \renewcommand\thesection     {\thechapter\@SepMark\@arabic\c@section}
15623 \renewcommand\thesubsection  {\thesection\@SepMark\@arabic\c@subsection}
15624 \renewcommand\thesubsubsection{\thesubsection \@SepMark\@arabic\c@subsubsection}
15625 \renewcommand\theparagraph   {\thesubsubsection\@SepMark\@arabic\c@paragraph}
15626 \renewcommand\thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}
15627 \renewcommand\theequation{%
15628 \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@equation}
15629 \renewcommand\thefigure{%
15630 \ifnum \c@chapter>\z@\thechapter\@SepMark\fi \@arabic\c@figure}
15631 \renewcommand\thetable{%
15632 \ifnum \c@chapter>\z@\thechapter\@SepMark\fi\@arabic\c@table}

```

## 88 File fancybox-xetex-bidi.def

```

15633 \ProvidesFile{fancybox-xetex-bidi.def}[2013/05/01 v0.1 bidi adaptations for fancybox package]
15634 \def\fancy@oval#1#2#3{%
15635     \boxmaxdepth \maxdimen
15636     \@ovttrue \@ovbtrue \@ovltrue \@ovrtrue
15637     \@tfor\@tempa :=#3\do{\csname @ov\@tempa false\endcsname}%
15638     \@ovxx#1\relax
15639     \advance\@ovxx-\@wholewidth
15640     \@ovyy#2\relax
15641     \advance\@ovyy-\@wholewidth
15642     \@tempdimb \ifdim \@ovyy >\@ovxx \@ovxx \@ovxx\else \@ovyy \fi
15643     \advance\@tempdimb-2\p@
15644     \ifdim\@tempdimb>\the@cornersize\relax
15645         \@tempdimb=\the@cornersize
15646     \fi
15647     \@getcirc\@tempdimb
15648     \@ovro\ht\@tempboxa \@ovri\dp\@tempboxa
15649     \@ovdx\@ovxx \advance\@ovdx-\@tempdima \divide\@ovdx \tw@
15650     \@ovdy\@ovyy \advance\@ovdy-\@tempdima \divide\@ovdy \tw@
15651     \@circlefnt
15652     \setbox\@tempboxa\hbox{\beginL%
15653         \if@ovr \@ovvert32\kern -\@tempdima \fi
15654         \if@ovl \kern \@ovxx \@ovvert01\kern -\@tempdima \kern -\@ovxx \fi
15655         \if@ovt \@ovhorz \kern -\@ovxx \fi
15656         \if@ovb \raise \@ovyy \@ovhorz \fi\endL}%
15657     \advance\@ovdx\@ovro
15658     \advance\@ovdy\@ovro
15659     \advance\@ovxx\@wholewidth
15660     \wd\@tempboxa=\@ovxx
15661     \dp\@tempboxa=\z@}

```



## 89 File fancyhdr-xetex-bidi.def

```
15662 \ProvidesFile{fancyhdr-xetex-bidi.def}[2024/12/07 v0.8 bidi adaptations for fancyhdr package]
15663
15664 \let\f@nch@everypar\everypar
15665
15666 \bidi@patchcmd\f@nch@head\raggedright\bidi@raggedright
15667 {}{\bidi@warningnoline{Oops! patching `string\f@nch@head' failed}}
15668 \bidi@patchcmd\f@nch@head\raggedleft\bidi@raggedleft
15669 {}{\bidi@warningnoline{Oops! patching `string\f@nch@head' failed}}
15670
15671 \bidi@patchcmd\f@nch@foot\raggedright\bidi@raggedright
15672 {}{\bidi@warningnoline{Oops! patching `string\f@nch@foot' failed}}
15673 \bidi@patchcmd\f@nch@foot\raggedleft\bidi@raggedleft
15674 {}{\bidi@warningnoline{Oops! patching `string\f@nch@foot' failed}}
15675
```

## 90 File fix2col-xetex-bidi.def

```
15676 \ProvidesFile{fix2col-xetex-bidi.def}[2017/05/06 v0.4 bidi adaptations for fix2col package]
15677 \def\RTL@outputdblcol{%
15678   \if@firstcolumn
15679     \global\@firstcolumnfalse
15680     \global\setbox\@leftcolumn\copy\@outputbox
15681     \splitmaxdepth\maxdimen
15682     \vbadness\maxdimen
15683     \setbox\@outputbox\vsplit\@outputbox to\maxdimen
15684     \toks@\expandafter{\topmark}%
15685     \xdef\@firstcoltopmark{\the\toks@}%
15686     \toks@\expandafter{\splitfirstmark}%
15687     \xdef\@firstcolfirstmark{\the\toks@}%
15688     \ifx\@firstcolfirstmark\@empty
15689       \global\let\@setmarks\relax
15690     \else
15691       \gdef\@setmarks{%
15692         \let\firstmark\@firstcolfirstmark
15693         \let\topmark\@firstcoltopmark}%
15694     \fi
15695 \else \global\@firstcolumntrue
15696 \setbox\@outputbox \vbox {\hbox to\textwidth {%
15697 \hskip \columnwidth
15698 \hfil \vrule width\columnseprule \hfil
15699 \hbox to\columnwidth {%
15700 \bidi@firstcolumn@status@write%
15701 \box\@leftcolumn \hss}%
15702 \hskip -\textwidth
15703 \hbox to\columnwidth{%
15704 \bidi@lastcolumn@status@write%
15705 \box\@outputbox \hss}%
15706 \hskip \columnsep
15707 \hskip \columnwidth }}%
15708 \@combinedblfloats \@setmarks \@outputpage
15709 \begingroup \@dblfloatplacement \@startdblcolumn
15710 \@whiles\if@fcolmade \fi
```



```

15711 {\@outputpage \@startdblcolumn }\endgroup
15712 \fi}
15713 \def\LTR@outputdblcol{%
15714   \if@firstcolumn
15715     \global\@firstcolumnfalse
15716     \global\setbox\@leftcolumn\copy\@outputbox
15717     \splitmaxdepth\maxdimen
15718     \vbadness\maxdimen
15719     \setbox\@outputbox\vsplit\@outputbox to\maxdimen
15720     \toks@\expandafter{\topmark}%
15721     \xdef\@firstcoltopmark{\the\toks@}%
15722     \toks@\expandafter{\splitfirstmark}%
15723     \xdef\@firstcolfirstmark{\the\toks@}%
15724     \ifx\@firstcolfirstmark\@empty
15725       \global\let\@setmarks\relax
15726     \else
15727       \gdef\@setmarks{%
15728         \let\firstmark\@firstcolfirstmark
15729         \let\topmark\@firstcoltopmark}%
15730     \fi
15731   \else
15732     \global\@firstcolumntrue
15733     \setbox\@outputbox\vbox{%
15734       \hb@xt@\textwidth{%
15735         \hb@xt@\columnwidth{%
15736           \bidi@firstcolumn@status@write%
15737           \box\@leftcolumn \hss}%
15738         \hfil
15739         \vrule \@width\columnseprule
15740         \hfil
15741         \hb@xt@\columnwidth{%
15742           \bidi@lastcolumn@status@write%
15743           \box\@outputbox \hss}}}%
15744   \@combinedblfloats
15745   \@setmarks
15746   \@outputpage
15747   \begingroup
15748   \@dblfloatplacement
15749   \@startdblcolumn
15750   \@whilesw\if@fcolmade \fi{\@outputpage\@startdblcolumn}%
15751   \endgroup
15752 \fi}

```

## 91 File fleqn-xetex-bidi.def

```

15753 \ProvidesFile{fleqn-xetex-bidi.def}[2024/12/07 v0.2 bidi adaptations for fleqn tag for XeTeX]
15754 \DeclareRobustCommand\[{ \relax
15755     \ifmmode\@badmath
15756     \else
15757       \begin{trivlist}%
15758         \@beginparpenalty\predisplaypenalty
15759         \@endparpenalty\postdisplaypenalty
15760         \item[]\leavevmode
15761         \hb@xt@\linewidth\bgroup \beginL$\m@th\displaystyle %$

```



```

15762             \hskip\mathindent\bgroup
15763             \fi}
15764 \DeclareRobustCommand\{\relax
15765             \ifmmode
15766             \egroup $\hfil% $
15767             \endL\egroup
15768             \end{trivlist}%
15769             \else \@badmath
15770             \fi}
15771 \renewenvironment{equation}%
15772   {\@beginparpenalty\predisplaypenalty
15773   \endparpenalty\postdisplaypenalty
15774   \refstepcounter{equation}%
15775   \trivlist \item[]\leavevmode
15776   \hb@xt@\linewidth\bgroup\beginL $\m@th% $
15777   \displaystyle
15778   \hskip\mathindent}%
15779   {$\hfil % $
15780   \displaywidth\linewidth\hbox{\@eqnnum}%
15781   \endL\egroup
15782   \endtrivlist}

```

## 92 File float-xetex-bidi.def

```

15783 \ProvidesFile{float-xetex-bidi.def}[2013/04/04 v0.2 bidi adaptations for float package for X
15784 \renewcommand\floatc@plain[2]{\setbox\@tempboxa\hbox{\@fs@cfont #1:} #2}%
15785 \ifdim\wd\@tempboxa>\hsize {\@fs@cfont #1:} #2\par
15786 \else\hbox to\hsize{\if@RTL\beginR\fi\hfil\box\@tempboxa\hfil\if@RTL\endR\fi}\fi}
15787 \def\float@newx#1[#2]{\@ifundefined{c@#1}{\newcounter{#1}[#2]}%
15788 \expandafter\edef\csname the#1\endcsname{%
15789 \expandafter\noexpand\csname
15790 the#2\endcsname\@SepMark\noexpand\arabic{#1}}}%
15791 {\PackageWarning{float}{Can't redefine counter variable for #1.}}

```

## 93 File floatrow-xetex-bidi.def

```

15792 \ProvidesFile{floatrow-xetex-bidi.def}[2025/01/03 v0.2 bidi adaptations for floatrow package
15793 \RequirePackage{color}
15794 \renewcommand\flnew@within[1]{\@addtoreset{FB@captype}{#1}%
15795 \expandafter\edef\csname the\FB@captype\endcsname{%
15796 \expandafter\noexpand\csname
15797 the#1\endcsname\@SepMark\noexpand\arabic{FB@captype}}}}

```

## 94 File flowfram-xetex-bidi.def

```

15798 \ProvidesFile{flowfram-xetex-bidi.def}[2025/01/03 v0.6 bidi adaptations for flowfram package
15799 \def\@outputdblcol{%
15800 \c@nxtcol=\c@thisframe
15801 \c@curpg=\c@page
15802 \@g@tnextcol{\c@nxtcol}%
15803 \if@ff@nwp % next flow frame starts on new page
15804 \global\@firstcolumntrue
15805 \@setcolbox\c@thisframe
15806 \if@specialpage

```



```

15807 \global\@specialpagefalse
15808 \nameuse{ps@\@specialstyle}\relax
15809 \fi
15810 \if@twoside
15811 \ifodd\count\z@
15812 \let\@thehead\@oddhead
15813 \let\@thefoot\@oddfoot
15814 \else
15815 \let\@thehead\@evenhead
15816 \let\@thefoot\@evenfoot
15817 \fi
15818 \else
15819 \let\@thehead\@oddhead
15820 \let\@thefoot\@oddfoot
15821 \fi
15822 \@beginndvi
15823 \@dodynamicthehead\@dodynamicthefoot
15824 \vbadness=\@M
15825 \setbox\@outputbox\vbox{\hbox to \textwidth{\@ff@do@allframes}}%
15826 \@combinedblfloats
15827 \@outputpage
15828 \advance\c@curpg by -\c@page\relax
15829 \whiledo{\c@curpg>0}{\advance\c@curpg by -1\relax
15830 \setbox\@outputbox\vbox{\hbox to \textwidth{\@ff@do@allframes}}%
15831 \@outputpage}
15832 \begingroup
15833 \@dblfloatplacement
15834 \@startdblcolumn
15835 \@whilesw \if@fcolmade \fi
15836 {\@outputpage \@startdblcolumn }\endgroup
15837 \@resetst@tics
15838 \@resetdyn@mics
15839 \else % still on same page, save contents of box255
15840 \global\@firstcolumnfalse
15841 \@setcolbox\c@thisframe
15842 \fi
15843 \global\c@thisframe=\@nxtcol
15844 \@setcol{\c@thisframe}\relax
15845 \global\@colht\vsiz
15846 }
15847 \def\@outputpage{%
15848 \begingroup
15849 \let\protect\noexpand
15850 \@resetactivechars
15851 \global\let\@if@newlist@if@newlist
15852 \global\@newlistfalse\@parboxrestore
15853 \global\let\@bidi@BeforeOutputPageShipOut\@firstofone
15854 \bidi@beforeoutputpageshipouthook
15855 \shipout\vbox{\set@typeset@protect
15856 \aftergroup
15857 \endgroup
15858 \aftergroup
15859 \set@typeset@protect
15860 \reset@font\normalsize

```





```

15861 \bidi@font@@outputpage
15862 \normalsfcodes
15863 \let\label\@gobble
15864 \let\index\@gobble
15865 \let\glossary\@gobble
15866 \baselineskip\z@skip
15867 \lineskip\z@skip
15868 \lineskiplimit\z@
15869 \vskip\topmargin\moveright\@themargin
15870 \vbox{%
15871 \global\let\bidi@BeforeHeader\@firstofone
15872 \bidi@beforeheaderhook
15873 \vskip\headheight
15874 \vskip\headsep
15875 \global\let\bidi@BeforeOutputBoxOutputPage\@firstofone
15876 \bidi@beforeoutputboxoutputpagehook
15877 \box\@outputbox
15878 \global\let\bidi@AfterOutputBoxOutputPage\@firstofone
15879 \bidi@afteroutputboxoutputpagehook
15880 }%
15881 \global\let\bidi@AfterOutputPageShipOut\@firstofone
15882 \bidi@afteroutputpageshipouthook
15883 \global\let\if@newlist\@if@newlist
15884 \stepcounter{page}%
15885 \setcounter{displayedframe}{0}%
15886 \let\firstmark\botmark
15887 \global\let\bidi@AtEndOutputPage\@firstofone
15888 \bidi@atendoutputpagehook
15889 }
15890
15891
15892 \newcommand*\bidi@s@tfftextcol{\ifthenelse{\equal{\ff@txtcol}{}}{}}{%
15893 \expandafter\bidicolor\ff@txtcol}}
15894
15895 \newcommand{\bidi@ff@box}[3]{\@ffbackground{\vbox to#2
15896 {\hb@xt@ #1{\hss{\bidi@s@tfftextcol #3}\hss}\vss\kern\z@}}}}
15897
15898
15899 \renewcommand*\@docolbox}[1]{%
15900 \edef\ff@frametype{%
15901 \csname @ff@frametype@\romannumeral#1\endcsname}%
15902 \edef\ff@col{\csname @ff@col@\romannumeral#1\endcsname}%
15903 \edef\ff@txtcol{\csname @ff@txtcol@\romannumeral#1\endcsname}%
15904 \edef\ff@backcol{\csname @ff@backcol@\romannumeral#1\endcsname}%
15905 \@ff@setoffset{#1}%
15906 \rotateframe{\csname @ff@angle@\romannumeral#1\endcsname}{%
15907 \ifthenelse{\boolean{columnframe\romannumeral#1}}{}}%
15908 \@ff@fbox{\csname colwidth\romannumeral#1\endcsname}%
15909 {\csname colheight\romannumeral#1\endcsname}{%
15910 \expandafter\box\csname column\romannumeral#1\endcsname}{%
15911 \csname\ff@frametype\endcsname}%
15912 }%
15913 \bidi@ff@box{\csname colwidth\romannumeral#1\endcsname}%
15914 {\csname colheight\romannumeral#1\endcsname}{%

```



```

15915 \expandafter\box\csgname column\romannumeral#1\endcsgname}%
15916 }}}
15917 \IfClassLoadedT{book}{%
15918 \renewcommand\theequation
15919   {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@equation}
15920 \renewcommand \thefigure
15921   {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@figure}
15922 \renewcommand \thetable
15923   {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@table}
15924 \renewcommand \thechapter {\@arabic\c@chapter}
15925 \renewcommand \thesection {\thechapter\@SepMark\@arabic\c@section}
15926 \renewcommand\thesubsection {\thesection\@SepMark\@arabic\c@subsection}
15927 \renewcommand\thesubsubsection{\thesubsection \@SepMark\@arabic\c@subsubsection}
15928 \renewcommand\theparagraph {\thesubsubsection\@SepMark\@arabic\c@paragraph}
15929 \renewcommand\thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}
15930 \IfClassLoadedT{report}{%
15931 \renewcommand\theequation
15932   {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@equation}
15933 \renewcommand \thefigure
15934   {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@figure}
15935 \renewcommand \thetable
15936   {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@table}
15937 \renewcommand \thechapter {\@arabic\c@chapter}
15938 \renewcommand \thesection {\thechapter\@SepMark\@arabic\c@section}
15939 \renewcommand\thesubsection {\thesection\@SepMark\@arabic\c@subsection}
15940 \renewcommand\thesubsubsection{\thesubsection \@SepMark\@arabic\c@subsubsection}
15941 \renewcommand\theparagraph {\thesubsubsection\@SepMark\@arabic\c@paragraph}
15942 \renewcommand\thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}
15943 \renewcommand{\rotateframe}[2]{\if@ttb@rotate
15944 \rotatebox{#1}{\if@RTL\beginL\fi#2\if@RTL\endL\fi}}%
15945 \else
15946 #2\relax
15947 \fi}

```

## 95 File footnote-xetex-bidi.def

```

15948 \ProvidesFile{footnote-xetex-bidi.def}[2024/12/14 v1.3 bidi footnote macros for XeTeX engine]
15949 \if@RTLmain\@RTL@footnotetrue\else\@RTL@footnotefalse\fi
15950 \newif\ifbidi@autofooterule
15951 \def\bidi@mpfootnoterule{\footnoterule}
15952 \newcounter{footdir@label}
15953 \renewcommand*{\thefootdir@label}{footdir@the\value{footdir@label}}
15954 \newcommand*{\footdir@write}{%
15955   \stepcounter{footdir@label}%
15956   \zref@labelbyprops{\thefootdir@label}{abspage}%
15957 }
15958 \newcommand*{\debugfootnotedirection}{\footdir@debugtrue}
15959 \newtoks\footdir@toks
15960 \newcommand*{\footdir@debug}[1]{%
15961   \iffootdir@debug
15962     \typeout{[footdir] #1}%
15963   \fi
15964 }
15965 %\ifpackagelater{zref-abspage}{2012/10/27}{%

```



```

15966 % \newcommand*{\footdir@LeftRightElse}{%
15967 % \ltx@ifundefined{footdir@\the\value{zabspage}}{%
15968 % \footdir@debug{abspage \the\value{zabspage}: else}%
15969 % \ltx@thirdofthree
15970 % }{%
15971 % \if\csname footdir@\the\value{zabspage}\endcsname L%
15972 % \footdir@debug{abspage \the\value{zabspage}: left}%
15973 % \expandafter\ltx@firstofthree
15974 % \else
15975 % \footdir@debug{abspage \the\value{zabspage}: right}%
15976 % \expandafter\ltx@secondofthree
15977 % \fi
15978 % }%
15979 % }%
15980 %}{%
15981 \providecommand*{\c@zabspage}{\c@abspage}%
15982 \newcommand*{\footdir@LeftRightElse}{%
15983 \footdir@write
15984 \zifrefundefined{\thefootdir@label}{%
15985 \footdir@debug{abspage ??: else}%
15986 \ltx@thirdofthree
15987 }{%
15988 \edef\footdir@abspage{%
15989 \zref@extractdefault{\thefootdir@label}{abspage}{0}%
15990 }%
15991 \ltx@ifundefined{footdir@\footdir@abspage}{%
15992 \footdir@debug{\footdir@abspage: else}%
15993 \ltx@thirdofthree
15994 }{%
15995 \if\csname footdir@\footdir@abspage\endcsname L%
15996 \footdir@debug{\footdir@abspage: left}%
15997 \expandafter\ltx@firstofthree
15998 \else
15999 \footdir@debug{\footdir@abspage: right}%
16000 \expandafter\ltx@secondofthree
16001 \fi
16002 }%
16003 }%
16004 }%
16005 %}
16006 \newcommand*{\footdir@fntext}[1]{%
16007 \zifrefundefined{\thefootdir@label}{%
16008 }{%
16009 \edef\footdir@name{%
16010 footdir@\zref@extractdefault{\thefootdir@label}{abspage}{0}%
16011 }%
16012 \@ifundefined{\footdir@name}{%
16013 \expandafter\gdef\csname\footdir@name\endcsname{#1}%
16014 }{}%
16015 }%
16016 }
16017
16018 \newcommand*{\footdir@temp}[3]{%
16019 \ifdefinable{#1}{%

```



```

16020 \let#1#2%
16021 \renewcommand{#2}[1]{%
16022 \footdir@write
16023 \footdir@fntext{#3}%
16024 \stepcounter{footdir@label}%
16025 \footdir@fntext{#3}%
16026 \footdir@toks{##1}%
16027 \footdir@toks\expandafter{%
16028 \the\expandafter\footdir@toks
16029 \expandafter
16030 \zref@labelbyprops\expandafter{\thefootdir@label}{abspage}%
16031 }%
16032 \expandafter#1\expandafter{\the\footdir@toks}%
16033 }%
16034 }%
16035 }
16036
16037 \def\right@footnoterule{%
16038 \kern-3\p@
16039 \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
16040 \kern2.6\p@}
16041 \def\left@footnoterule{\kern-3\p@
16042 \hrule \@width .4\columnwidth \kern 2.6\p@}
16043 \def\textwidth@footnoterule{\kern-3\p@
16044 \hrule \@width \columnwidth \kern 2.6\p@}
16045 \def\leftfootnoterule{%
16046 \bidi@autofootnoterulefalse%
16047 \def\footnoterule{\left@footnoterule}}
16048 \let\LRfootnoterule=\leftfootnoterule
16049 \def\rightfootnoterule{%
16050 \bidi@autofootnoterulefalse%
16051 \def\footnoterule{\right@footnoterule}}
16052 \def\textwidthfootnoterule{%
16053 \bidi@autofootnoterulefalse%
16054 \def\footnoterule{\textwidth@footnoterule}}
16055
16056
16057
16058 \def\auto@footnoterule{%
16059 \footdir@LeftRightElse%
16060 \left@footnoterule%
16061 \right@footnoterule%
16062 \left@footnoterule%
16063 }
16064
16065
16066
16067 \def\autofootnoterule{%
16068 \bidi@autofootnoteruletrue%
16069 \def\footnoterule{\auto@footnoterule}%
16070 }
16071
16072 \newcommand*{\SplitFootnoteRule}{-%
16073 \gdef\split@prev{0}

```



```

16074 \let\pagefootnoterule\footnoterule
16075 \let\mpfootnoterule\footnoterule
16076 \def\splitfootnoterule{\kern-3\p@ \hrule \kern2.6\p@}
16077 \def\footnoterule{\relax
16078   \ifx \@listdepth\@mplistdepth
16079     \mpfootnoterule
16080   \else
16081     \ifnum\split@prev=\z@
16082       \pagefootnoterule
16083     \else
16084       \splitfootnoterule
16085     \fi
16086   \xdef\split@prev{\the\insertpenalties}%
16087 \fi
16088 }%
16089 }
16090
16091
16092
16093
16094 \def\RTLfootnote{\@ifnextchar [\@xRTLfootnote{\stepcounter\@mpfn
16095   \protected@xdef\@thefnmark{\thempfn}%
16096   \@footnotemark\@RTLfootnotetext}}
16097 \def\@xRTLfootnote[#1]{%
16098   \begingroup
16099     \csname c@\@mpfn\endcsname #1\relax
16100     \unrestored@protected@xdef\@thefnmark{\thempfn}%
16101   \endgroup
16102   \@footnotemark\@RTLfootnotetext}
16103 \def\LTRfootnote{\@ifnextchar [\@xLTRfootnote{\stepcounter\@mpfn
16104   \protected@xdef\@thefnmark{\thempfn}%
16105   \@footnotemark\@LTRfootnotetext}}
16106 \def\@xLTRfootnote[#1]{%
16107   \begingroup
16108     \csname c@\@mpfn\endcsname #1\relax
16109     \unrestored@protected@xdef\@thefnmark{\thempfn}%
16110   \endgroup
16111   \@footnotemark\@LTRfootnotetext}
16112
16113
16114 \def\setfootnoteRL{\@RTL@footnotetrue}
16115 \def\unsetfootnoteRL{\@RTL@footnotefalse}
16116 \def\setfootnoteLR{\unsetfootnoteRL}
16117
16118 \newcommand*{\bidi@footnotetext@font}{\footnotesize}
16119 \newcommand*{\bidi@LTRfootnotetext@font}{\footnotesize}
16120 \newcommand*{\bidi@RTLfootnotetext@font}{\footnotesize}
16121
16122 \long\def\@footnotetext#1{\insert\footins{%
16123   \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
16124   \reset@font%
16125   \bidi@footnotetext@font% \reset@font\footnotesize
16126   \interlinepenalty\interfootnotelinepenalty
16127   \splittopskip\footnotesepp

```



```

16128 \splitmaxdepth \dp\strutbox \floatingpenalty \@MM
16129 \hsize\columnwidth \@parboxrestore
16130 \protected@edef\@currentlabel{%
16131     \csname p@footnote\endcsname\@thefnmark
16132 }%
16133 \color@begingroup
16134     \@makefntext{%
16135         \rule\z@\footnotesep\ignorespaces#1\@finalstrut\strutbox}%
16136 \color@endgroup}}%
16137
16138
16139 \long\def\@RTLfootnotetext#1{\insert\footins{%
16140     \@RTLtrue%
16141     \reset@font%
16142     \bidi@RTLfootnotetext@font% \reset@font\footnotesize
16143     \interlinepenalty\interfootnotelinepenalty
16144     \splittopskip\footnotesep
16145     \splitmaxdepth \dp\strutbox \floatingpenalty \@MM
16146     \hsize\columnwidth \@parboxrestore
16147     \protected@edef\@currentlabel{%
16148         \csname p@footnote\endcsname\@thefnmark
16149     }%
16150     \color@begingroup
16151         \@makefntext{%
16152             \rule\z@\footnotesep\ignorespaces#1\@finalstrut\strutbox}%
16153     \color@endgroup}}%
16154
16155 \long\def\@LTRfootnotetext#1{\insert\footins{%
16156     \@RTLfalse%
16157     \reset@font%
16158     \bidi@LTRfootnotetext@font% \reset@font\footnotesize
16159     \interlinepenalty\interfootnotelinepenalty
16160     \splittopskip\footnotesep
16161     \splitmaxdepth \dp\strutbox \floatingpenalty \@MM
16162     \hsize\columnwidth \@parboxrestore
16163     \protected@edef\@currentlabel{%
16164         \csname p@footnote\endcsname\@thefnmark
16165     }%
16166     \color@begingroup
16167         \@makefntext{%
16168             \rule\z@\footnotesep\ignorespaces#1\@finalstrut\strutbox}%
16169     \color@endgroup}}%
16170
16171 \AtBeginDocument{%
16172 \if@RTL@footnote
16173 \newcommand*{\bidi@footdir@footnote}{R}
16174 \else
16175 \newcommand*{\bidi@footdir@footnote}{L}
16176 \fi%
16177 }
16178
16179 \footdir@temp\footdir@ORG@bidi@footnotetext\@footnotetext{\bidi@footdir@footnote}%
16180 \footdir@temp\footdir@ORG@bidi@RTLfootnotetext\@RTLfootnotetext{R}%
16181 \footdir@temp\footdir@ORG@bidi@LTRfootnotetext\@LTRfootnotetext{L}%

```



```

16182
16183 \long\def\@mpRTLfootnotetext#1{%
16184   \ifbidi@autofootnoterule\ifnum\c@mpfootnote=\@ne\global\let\@bidi@mpfootnoterule\right@footnoterule
16185   \global\setbox\@mpfootins\vbox{%
16186     \unvbox\@mpfootins
16187     \RTLtrue
16188     \reset@font%
16189     \bidi@RTLfootnotetext@font% \reset@font\footnotesize
16190     \hsize\columnwidth
16191     \@parboxrestore
16192     \protected@edef\@currentlabel
16193       {\csname p@mpfootnote\endcsname\@thefnmark}%
16194     \color@begingroup
16195       \@makefntext{%
16196         \rule\z@\footnotesep\ignorespaces#1\@finalstrut\strutbox}%
16197     \color@endgroup}}
16198 \long\def\@mpLTRfootnotetext#1{%
16199   \ifbidi@autofootnoterule\ifnum\c@mpfootnote=\@ne\global\let\@bidi@mpfootnoterule\left@footnoterule
16200   \global\setbox\@mpfootins\vbox{%
16201     \unvbox\@mpfootins
16202     \RTLfalse
16203     \reset@font%
16204     \bidi@LTRfootnotetext@font% \reset@font\footnotesize
16205     \hsize\columnwidth
16206     \@parboxrestore
16207     \protected@edef\@currentlabel
16208       {\csname p@mpfootnote\endcsname\@thefnmark}%
16209     \color@begingroup
16210       \@makefntext{%
16211         \rule\z@\footnotesep\ignorespaces#1\@finalstrut\strutbox}%
16212     \color@endgroup}}
16213 \long\def\@mpfootnotetext#1{%
16214   \ifbidi@autofootnoterule\ifnum\c@mpfootnote=\@ne\if@RTL@footnote\global\let\@bidi@mpfootnoterule\right@footnoterule
16215   \global\setbox\@mpfootins\vbox{%
16216     \unvbox\@mpfootins
16217     \if@RTL@footnote\RTLtrue\else\RTLfalse\fi
16218     \reset@font%
16219     \bidi@footnotetext@font% \reset@font\footnotesize
16220     \hsize\columnwidth
16221     \@parboxrestore
16222     \protected@edef\@currentlabel
16223       {\csname p@mpfootnote\endcsname\@thefnmark}%
16224     \color@begingroup
16225       \@makefntext{%
16226         \rule\z@\footnotesep\ignorespaces#1\@finalstrut\strutbox}%
16227     \color@endgroup}}
16228 \def\@iiiminipage#1#2[#3]#4{%
16229   \leavevmode
16230   \@pboxswfalse
16231   \if@hboxRconstruct\@bidi@list@minipage@parbox@not@nobtrue\fi
16232   \if@RTL\if#1t\@bidi@list@minipage@parboxtrue\else\if#1b\@bidi@list@minipage@parboxtrue\fi
16233   \setlength\@tempdima{#4}%
16234   \def\@mpargs{{#1}{#2}{#3}{#4}}%
16235   \setbox\@tempboxa\vbox\bgroup

```



```

16236 \color@begingroup
16237 \hsize\@tempdima
16238 \textwidth\hsize \columnwidth\hsize
16239 \@parboxrestore
16240 \def\@mpfn{mpfootnote}\def\thempfn{\thempfootnote}\c@mpfootnote\z@
16241 \let\@footnotetext\@mpfootnotetext
16242 \let\@LTRfootnotetext\@mpLTRfootnotetext
16243 \let\@RTLfootnotetext\@mpRTLfootnotetext
16244 \let\@listdepth\@mplistdepth \@mplistdepth\z@
16245 \@minipagerestore
16246 \@setminipage}
16247 \def\endminipage{%
16248 \par
16249 \unskip
16250 \ifvoid\@mpfootins\else
16251 \vskip\skip\@mpfootins
16252 \normalcolor
16253 \bidi@mpfootnoterule
16254 \unvbox\@mpfootins
16255 \fi
16256 \@minipagefalse %% added 24 May 89
16257 \color@endgroup
16258 \egroup
16259 \expandafter\@iiiparbox\@mpargs{\unvbox\@tempboxa}}
16260 \def\LTRthanks#1{\footnotemark
16261 \protected@xdef\@thanks{\@thanks
16262 \protect\LTRfootnotetext[\the\c@footnote]{#1}}%
16263 }
16264 \def\LTRfootnotetext{%
16265 \@ifnextchar [\@xLTRfootnotenext
16266 {\protected@xdef\@thefnmark{\thempfn}%
16267 \@LTRfootnotetext}}
16268 \def\@xLTRfootnotenext[#1]{%
16269 \begingroup
16270 \csname c@\@mpfn\endcsname #1\relax
16271 \unrestored@protected@xdef\@thefnmark{\thempfn}%
16272 \endgroup
16273 \@LTRfootnotetext}
16274 \def\RTLthanks#1{\footnotemark
16275 \protected@xdef\@thanks{\@thanks
16276 \protect\RTLfootnotetext[\the\c@footnote]{#1}}%
16277 }
16278 \let\@thanks\@empty
16279 \def\RTLfootnotetext{%
16280 \@ifnextchar [\@xRTLfootnotenext
16281 {\protected@xdef\@thefnmark{\thempfn}%
16282 \@RTLfootnotetext}}
16283 \def\@xRTLfootnotenext[#1]{%
16284 \begingroup
16285 \csname c@\@mpfn\endcsname #1\relax
16286 \unrestored@protected@xdef\@thefnmark{\thempfn}%
16287 \endgroup
16288 \@RTLfootnotetext}
16289 \leftfootnoterule

```





## 96 File footnotebackref-xetex-bidi.def

```
16290 \ProvidesFile{footnotebackref-xetex-bidi.def}[2022/02/18 v0.1 bidi adaptations for footnoteb
16291 \LetLtxMacro{\BHFN@OldLTRFootnote}{\LTRfootnote}
16292 \LetLtxMacro{\BHFN@OldRTLFootnote}{\RTLfootnote}
16293
16294 \renewcommand*\LTRfootnote{%
16295   \refstepcounter{BackrefHyperFootnoteCounter}%
16296   \edef\BackrefFootnoteTag{bhfn:\theBackrefHyperFootnoteCounter}%
16297   \label{\BackrefFootnoteTag}%
16298   \@ifnextchar [\Backref@OptLTRHyperFootnote\Backref@HyperLTRFootnote}
16299
16300 \renewcommand*\RTLfootnote{%
16301   \refstepcounter{BackrefHyperFootnoteCounter}%
16302   \edef\BackrefFootnoteTag{bhfn:\theBackrefHyperFootnoteCounter}%
16303   \label{\BackrefFootnoteTag}%
16304   \@ifnextchar [\Backref@OptRTLHyperFootnote\Backref@HyperRTLFootnote}
16305 \newcommand\Backref@HyperLTRFootnote[1]{%
16306   \BHFN@OldLTRFootnote{\Backref@HyperSymbol#1}}
16307
16308 \newcommand\Backref@HyperRTLFootnote[1]{%
16309   \BHFN@OldRTLFootnote{\Backref@HyperSymbol#1}}
16310
16311 \newcommand\Backref@OptHyperLTRFootnote[2][\empty]{%
16312   \BHFN@OldLTRFootnote[#1]{\Backref@HyperSymbol#2}}
16313
16314 \newcommand\Backref@OptHyperRTLFootnote[2][\empty]{%
16315   \BHFN@OldRTLFootnote[#1]{\Backref@HyperSymbol#2}}
16316
16317 \bidi@AfterFile{extrafootnotefeatures-xetex-bidi.def}{%
16318 \iffootnotebackref@numberlinked
16319 \renewcommand{\footfootmark}{%
16320   \ifdim\footmarkwidth < \z@
16321     \llap{\hb@xt@ -\footmarkwidth{%
16322       \hss\normalfont\footscript{\hyperref [\BackrefFootnoteTag]{\@thefnmark}}}%
16323       \hspace*{-\footmarkwidth}}%
16324   \else
16325     \ifdim\footmarkwidth = \z@
16326       {\normalfont\footscript{\hyperref [\BackrefFootnoteTag]{\@thefnmark}}}%
16327     \else
16328       \hb@xt@\footmarkwidth{\hss\normalfont\footscript{\hyperref [\BackrefFootnoteTag]{\@thef
16329     \fi
16330   \fi}
16331 \renewcommand{\LTRfootfootmark}{%
16332   \ifdim\footmarkwidth < \z@
16333     \llap{\hb@xt@ -\footmarkwidth{%
16334       \hss\normalfont\LTRfootscript{\hyperref [\BackrefFootnoteTag]{\@thefnmark}}}%
16335       \hspace*{-\footmarkwidth}}%
16336   \else
16337     \ifdim\footmarkwidth = \z@
16338       {\normalfont\LTRfootscript{\hyperref [\BackrefFootnoteTag]{\@thefnmark}}}%
16339     \else
16340       \hb@xt@\footmarkwidth{\hss\normalfont\LTRfootscript{\hyperref [\BackrefFootnoteTag]{\@th
16341     \fi
```



```

16342 \fi}
16343 \renewcommand{\RTLfootfootmark}{%
16344 \ifdim\footmarkwidth < \z@
16345 \llap{\hb@xt@ -\footmarkwidth{%
16346 \hss\normalfont\RTLfootscript{\hyperref [\BackrefFootnoteTag]{\@thefnmark}}}%
16347 \hspace*{-\footmarkwidth}}%
16348 \else
16349 \ifdim\footmarkwidth = \z@
16350 {\normalfont\RTLfootscript{\hyperref [\BackrefFootnoteTag]{\@thefnmark}}}%
16351 \else
16352 \hb@xt@\footmarkwidth{\hss\normalfont\RTLfootscript{\hyperref [\BackrefFootnoteTag]{\@thefnmark}}}%
16353 \fi
16354 \fi}
16355 \fi
16356 }

```

## 97 File framed-xetex-bidi.def

```

16357 \ProvidesFile{framed-xetex-bidi.def}[2012/06/05 v0.3 bidi adaptations for framed package for
16358 \renewcommand\TitleBarFrame[3] []{\begingroup
16359 \ifx\delimiter#1\delimiter
16360 \let\TF@conlab\@empty
16361 \else
16362 \def\TF@conlab{% continuation label
16363 \nointerlineskip
16364 \smash{\rlap{\kern\wd\@tempboxa\kern\fboxrule\kern\fboxsep #1}}}%
16365 \fi
16366 %\let\TF@savecolor\current@color
16367 \textcolor{TFFrameColor}{%
16368 \CustomFBox
16369 {\TF@Title{#2}}{\TF@conlab}}%
16370 \fboxrule\fboxrule\fboxrule\fboxrule
16371 %{\let\current@color\TF@savecolor\set@color #3}%
16372 {\normalcolor #3}%
16373 }\endgroup
16374 }
16375 \renewenvironment{titled-frame}[1]{%
16376 \def\FrameCommand{\fboxsep8pt\fboxrule2pt
16377 \TitleBarFrame{\textbf{#1}}}%
16378 \def\FirstFrameCommand{\fboxsep8pt\fboxrule2pt
16379 \TitleBarFrame[ $\if@RTL$ \blacktriangleleft\else\blacktriangleright\fi$]{\textbf{#1}}}%
16380 \def\MidFrameCommand{\fboxsep8pt\fboxrule2pt
16381 \TitleBarFrame[ $\if@RTL$ \blacktriangleleft\else\blacktriangleright\fi$]{\textbf{#1} (con
16382 \def\LastFrameCommand{\fboxsep8pt\fboxrule2pt
16383 \TitleBarFrame{\textbf{#1} (cont)}}}%
16384 \MakeFramed{\advance\hsize-20pt \FrameRestore}}%
16385 % note: 8 + 2 + 8 + 2 = 20. Don't use \width because the frame title
16386 % could interfere with the width measurement.
16387 {\endMakeFramed}
16388 \chardef\FrameRestore=\catcode`\| % for debug
16389 \catcode`\|=\catcode`\% % (debug: insert space after backslash)
16390 \def\fb@put@frame#1#2{\relax
16391 \ifdim\pagegoal=\maxdimen \pagegoal\vsize \fi
16392 | \message{===== Entering putframe =====^^J

```



```

16393 | \pagegoal=\the\pagegoal, \pagetotal=\the\pagetotal. }%
16394 \ifinner
16395 \fb@putboxa#1%
16396 \fb@afterframe
16397 \else
16398 \dimen@\pagegoal \advance\dimen@-\pagetotal % natural space left on page
16399 \ifdim\dimen@<2\baselineskip % Too little room on page
16400 | \message{Page has only \the\dimen@\space room left; eject. }%
16401 \eject \fb@adjheight \fb@put@frame#1#2%
16402 \else % there's appreciable room left on the page
16403 \fb@sizeofframe#1%
16404 | \message{\string\pagetotal=\the\pagetotal,
16405 \string\pagegoal=\the\pagegoal,
16406 \string\pagestretch=\the\pagestretch,
16407 \string\pageshrink=\the\pageshrink,
16408 | \string\fb@frh=\the\fb@frh. \space}
16409 | \message{~JBox of size \the\ht@\tempboxa\space}%
16410 \begingroup % temporarily set \dimen@ to be...
16411 \advance\dimen@.8\pageshrink % maximum space available on page
16412 \advance\dimen@-\fb@frh\relax % max space available for frame's contents
16413 %%% LOOKS SUBTRACTED AND ADDED, SO DOUBLE ACCOUNTING!
16414 \expandafter\endgroup
16415 % expand \ifdim, then restore \dimen@ to real room left on page
16416 \ifdim\dimen@>\ht@\tempboxa % whole box does fit
16417 | \message{fits in \the\dimen@. }%
16418 % ToDo: Change this to use vsplit anyway to capture the marks
16419 % MERGE THIS WITH THE else CLAUSE!!!
16420 \fb@putboxa#1%
16421 \fb@afterframe
16422 \else % box must be split
16423 | \message{must be split to fit in \the\dimen@. }%
16424 % update frame measurement to use \FirstFrameCommand or \MidFrameCommand
16425 \fb@sizeofframe#2%
16426 \setbox\@tempboxa\vbox{% simulate frame and flexibility of the page:
16427 \vskip \fb@frh \@plus\pagestretch \@minus.8\pageshrink
16428 \kern137sp\kern-137sp\penalty-30
16429 \unvbox\@tempboxa}%
16430 \edef\fb@resto@set{\boxmaxdepth\the\boxmaxdepth
16431 \splittopskip\the\splittopskip}%
16432 \boxmaxdepth\z@ \splittopskip\z@
16433 | \message{~JPadded box of size \the\ht@\tempboxa\space split to \the\dimen@}%
16434 % Split box here
16435 \setbox\tw@\vsplit\@tempboxa to\dimen@
16436 | \toks99\expandafter{\splitfirstmark}%
16437 | \toks98\expandafter{\splitbotmark}%
16438 | \message{Marks are: \the\toks99, \the\toks98. }%
16439 \setbox\tw@\vbox{\unvbox\tw@}% natural-sized
16440 | \message{Natural height of split box is \the\ht\tw@, leaving
16441 \the\ht@\tempboxa\space remainder. }%
16442 % If the split-to size > (\vsize-\topskip), then set box to full size.
16443 \begingroup
16444 \advance\dimen@\topskip
16445 \expandafter\endgroup
16446 \ifdim\dimen@>\pagegoal

```



```

16447 |         \message{Frame is big -- Use up the full column. }%
16448 |         \dimen@ii\pagegoal
16449 |         \advance\dimen@ii -\topskip
16450 |         \advance\dimen@ii \FrameHeightAdjust\relax
16451 |     \else % suspect this is implemented incorrectly:
16452 |         % If the split-to size > feasible room_on_page, rebox it smaller.
16453 |         \advance\dimen@.8\pageshrink
16454 |         \ifdim\ht\tw@>\dimen@
16455 |             \message{Box too tall; rebox it to \the\dimen@. }%
16456 |             \dimen@ii\dimen@
16457 |         \else % use natural size
16458 |             \dimen@ii\ht\tw@
16459 |         \fi
16460 |     \fi
16461 |     % Re-box contents to desired size \dimen@ii
16462 |     \advance\dimen@ii -\fb@frh
16463 |     \setbox\tw@\vbox to\dimen@ii \bgroup
16464 |     % remove simulated frame and page flexibility:
16465 |     \vskip -\fb@frh \@plus-\pagestretch \@minus-.8\pageshrink
16466 |     \unvbox\tw@ \unpenalty\unpenalty
16467 |     \ifdim\lastkern=-137sp % whole box went to next page
16468 |         \message{box split at beginning! }%
16469 |         % need work here???
16470 |         \egroup \fb@resto@set \eject % (\vskip for frame size was discarded)
16471 |         \fb@adjheight
16472 |         \fb@put@frame#1#2% INSERTED ???
16473 |     \else % Got material split off at the head
16474 |         \egroup \fb@resto@set
16475 |         \ifvoid\@tempboxa % it all fit after all
16476 |             \message{box split at end! }%
16477 |             \setbox\@tempboxa\box\tw@
16478 |             \fb@putboxa#1%
16479 |             \fb@afterframe
16480 |         \else % it really did split
16481 |             \message{box split as expected. Its reboxed height is \the\ht\tw@. }%
16482 |             \ifdim\wd\tw@>\z@
16483 |                 \wd\tw@\wd\@tempboxa
16484 |                 \centerline{#2{\hboxL{\box\tw@}}}% ??? \centerline bad idea
16485 |             \else
16486 |                 \message{Zero width means likely blank. Don't frame it (guess)}%
16487 |                 \box\tw@
16488 |             \fi
16489 |             \hrule \@height\z@ \@width\hsize
16490 |             \eject
16491 |             \fb@adjheight
16492 |             \fb@put@frame\LastFrameCommand\MidFrameCommand
16493 |         \fi\fi\fi\fi\fi
16494 |     }
16495 | \def\fb@putboxa#1{%
16496 |     \ifvoid\@tempboxa
16497 |         \PackageWarning{framed}{Boxa is void -- discard it. }%
16498 |     \else
16499 |         \message{Frame and place boxa. }%
16500 |         %{\showoutput\showbox\@tempboxa}%

```



```

16501 \centerline{#1{\hboxL{\box\@tempboxa}}}%
16502 \fi
16503 }
16504 \catcode\|= \FrameRestore
16505 \def\FrameRestore{%
16506 \let\if@nobreak\iffalse
16507 \let\if@noskipsec\iffalse
16508 \let\-\@dischph
16509 \let'\@acci\let'\@accii\let\=\@acciii
16510 % \message{FrameRestore:
16511 % \totalleftmargin=\the \totalleftmargin,
16512 % \rightmargin=\the\rightmargin,
16513 % \listdepth=\the\listdepth. }%
16514 % Test if we are in a list (or list-like paragraph)
16515 \ifnum \ifdim\totalleftmargin>\z@ 1\fi
16516 \ifdim\rightmargin>\z@ 1\fi
16517 \ifnum\listdepth>\z@ 1\fi 0>\z@
16518 % \message{In a list: \linewidth=\the\linewidth, \totalleftmargin=\the\totalleftmargin,
16519 % \parshape=\the\parshape, \columnwidth=\the\columnwidth, \hspace=\the\hspace,
16520 % \labelwidth=\the\labelwidth. }%
16521 \@setminipage % snug fit around the item
16522 % Now try to propagate changes of width from \hspace to list parameters.
16523 % This is deficient, but a more advanced way to indicate modification to text
16524 % dimensions is not (yet) provided; in particular, no separate left/right
16525 % adjustment.
16526 \advance\linewidth-\columnwidth \advance\linewidth\hspace
16527 \parshape\@ne \totalleftmargin \linewidth
16528 \else % Not in list
16529 \linewidth=\hspace
16530 %\message{No list, set \string\linewidth=\the\hspace. }%
16531 \fi
16532 \sloppy
16533 }

```

## 98 File `ftnright-xetex-bidi.def`

```

16534 \ProvidesFile{ftnright-xetex-bidi.def}[2018/09/29 v0.6 bidi adaptations for ftnright package]
16535
16536 \def\prepare@bidi@copyins{%
16537 \global\bidi@rcol@copyinsskip\skip\@bidi@copyins@
16538 \global\skip\@bidi@copyins@\z@
16539 \global\count\@bidi@copyins@\z@
16540 \global\dimen\@bidi@copyins@\texttheight}
16541
16542 \newskip\bidi@rcol@copyinsskip
16543
16544 \def\LTR@outputdblcol{%
16545 \if@firstcolumn
16546 \global\@firstcolumnfalse
16547 \global\setbox\@leftcolumn\copy\@outputbox
16548 \global\count\footins\@m
16549 \global\skip\footins\rcol@footinsskip
16550 \global\count\@bidi@copyins@\@m
16551 \global\skip\@bidi@copyins@\bidi@rcol@copyinsskip

```



```

16552 \splitmaxdepth\maxdimen
16553 \vbadness\maxdimen
16554 \setbox\@outputbox\vbox{\unvbox\@outputbox\unskip}%
16555 \setbox\@outputbox\vsplit\@outputbox to\maxdimen
16556 \toks@\expandafter{\topmark}%
16557 \xdef\@firstcoltopmark{\the\toks@}%
16558 \toks@\expandafter{\splitfirstmark}%
16559 \xdef\@firstcolfirstmark{\the\toks@}%
16560 \ifx\@firstcolfirstmark\@empty
16561 \global\let\@setmarks\relax
16562 \else
16563 \gdef\@setmarks{%
16564 \let\firstmark\@firstcolfirstmark
16565 \let\topmark\@firstcoltopmark}%
16566 \fi
16567 \else
16568 \preparefootins
16569 \prepare@bidi@copyins
16570 \global\@firstcolumntrue
16571 \setbox\@outputbox\vbox{%
16572 \hb@xt@\textwidth{%
16573 \hb@xt@\columnwidth{%
16574 \bidi@firstcolumn@status@write%
16575 \box\@leftcolumn \hss}%
16576 \hfil
16577 {\normalcolor\vrule \@width\columnseprule}%
16578 \hfil
16579 \hb@xt@\columnwidth{%
16580 \bidi@lastcolumn@status@write%
16581 \box\@outputbox \hss}}}%
16582 \@combinedblfloats
16583 \@setmarks
16584 \@outputpage
16585 \begin@group
16586 \@dblfloatplacement
16587 \@startdblcolumn
16588 \@whilesw\if@colmade \fi{\@outputpage
16589 \@startdblcolumn}%
16590 \end@group
16591 \fi}%
16592
16593 \def\RTL@outputdblcol{%
16594 \if@firstcolumn
16595 \global\@firstcolumnfalse
16596 \global\setbox\@leftcolumn\copy\@outputbox
16597 \global\count\footins\@m
16598 \global\skip\footins\rcol\footinsskip
16599 \global\count\@bidi@copyins\@m
16600 \global\skip\@bidi@copyins\@bidi@rcol\copyinsskip
16601 \splitmaxdepth\maxdimen
16602 \vbadness\maxdimen
16603 \setbox\@outputbox\vbox{\unvbox\@outputbox\unskip}%
16604 \setbox\@outputbox\vsplit\@outputbox to\maxdimen
16605 \toks@\expandafter{\topmark}%

```



```

16606 \xdef\@firstcoltopmark{\the\toks@}%
16607 \toks@\expandafter{\splitfirstmark}%
16608 \xdef\@firstcolfirstmark{\the\toks@}%
16609 \ifx\@firstcolfirstmark\@empty
16610 \global\let\@setmarks\relax
16611 \else
16612 \gdef\@setmarks{%
16613 \let\firstmark\@firstcolfirstmark
16614 \let\topmark\@firstcoltopmark}%
16615 \fi
16616 \else
16617 \preparefootins
16618 \prepare@bidi@copyins
16619 \global\@firstcolumntrue
16620 \setbox\@outputbox\vbox{%
16621 \hb@xt@\textwidth{%
16622 \hskip \columnwidth
16623 \hfil
16624 {\normalcolor\vrule \@width\columnseprule}%
16625 \hfil
16626 \hb@xt@\columnwidth{%
16627 \bidi@firstcolumn@status@write%
16628 \box\@leftcolumn \hss}%
16629 \hskip -\textwidth
16630 \hb@xt@\columnwidth{%
16631 \bidi@lastcolumn@status@write%
16632 \box\@outputbox \hss}%
16633 \hskip \columnsep
16634 \hskip \columnwidth }}%
16635 \@combinedblfloats
16636 \@setmarks
16637 \@outputpage
16638 \begingroup
16639 \@dblfloatplacement
16640 \@startdblcolumn
16641 \@whilesw\if@fcolmade \fi{\@outputpage
16642 \@startdblcolumn}%
16643 \endgroup
16644 \fi}%
16645
16646 \def\@startcolumn{%
16647 \ifx\@deferlist\@empty
16648 \global\@fcolmadefalse
16649 \global\@colroom\@colht
16650 \else
16651 \ifvoid\footins\else
16652 \ftn@amount\ht\footins
16653 \advance\ftn@amount\dp\footins
16654 \advance\ftn@amount\skip\footins
16655 \fi
16656 \ifvoid\@bidi@copyins\else
16657 \bidi@copyins@amount\ht\@bidi@copyins@
16658 \advance\bidi@copyins@amount\dp\@bidi@copyins@
16659 \advance\bidi@copyins@amount\skip\@bidi@copyins@

```



```

16660 \fi
16661 \global\advance\@colht-\ftn@amount
16662 \global\advance\@colht-\bidi@copyins@amount
16663 \global\@colroom\@colht
16664 \@xstartcol
16665 \global\advance\@colht\ftn@amount
16666 \global\advance\@colroom\ftn@amount
16667 \global\advance\@colht\bidi@copyins@amount
16668 \global\advance\@colroom\bidi@copyins@amount
16669 \fi
16670 \iffcolmade
16671 \setbox\@cclv\box\@outputbox
16672 \@makecol
16673 \else
16674 \ifvoid\footins\else
16675 \insert\footins{\unvbox\footins}\fi
16676 \ifvoid\@bidi@copyins\else
16677 \insert\@bidi@copyins@{\unvbox\@bidi@copyins@}\fi
16678 \fi}
16679
16680 \newdimen\bidi@copyins@amount
16681
16682 \def\@makecol{\if@firstcolumn
16683 \setbox\@outputbox\box\@cclv
16684 \if@twocolumn \else
16685 \ifvoid\footins \else
16686 \@latexerr{ftnright package
16687 used in one-column mode}}%
16688 {The ftnright package was designed to
16689 work with LaTeX's standard^^Jtwocolumn
16690 option. It does *not* work with the
16691 multicol package.^^JSo please specify
16692 `twocolumn' in the
16693 \noexpand\documentclass command.}%
16694 \shipout\box\footins \fi
16695 \ifvoid\@bidi@copyins@ \else
16696 \@latexerr{ftnright package
16697 used in one-column mode}}%
16698 {The ftnright package was designed to
16699 work with LaTeX's standard^^Jtwocolumn
16700 option. It does *not* work with the
16701 multicol package.^^JSo please specify
16702 `twocolumn' in the
16703 \noexpand\documentclass command.}%
16704 \shipout\box\@bidi@copyins@ \fi\fi
16705 \ifnum\insertpenalties>\z@
16706 \@latexerr{ftnright package
16707 scrambled footnotes}}%
16708 {There is too much footnote material in
16709 the first column and ftnright^^Jis
16710 unable to cope with this.^^JYou need
16711 to reduce the amount to get a properly
16712 formatted page.}%
16713 \fi

```





```

16714 \else
16715 \ifvoid\footins
16716   \ifvoid\@bidi@copyins@
16717     \setbox\@outputbox\box\@cclv
16718   \else
16719     \setbox\@outputbox\vbox
16720     {\ifvoid\@cclv \else
16721       \unvbox\@cclv
16722       \vskip \skip\@bidi@copyins@
16723     \fi
16724       \color@begingroup
16725       \normalcolor
16726       \unvbox \@bidi@copyins@
16727       \color@endgroup}%
16728   \fi
16729 \else
16730   \setbox\@outputbox\vbox
16731   {\ifvoid\@cclv \else
16732     \unvbox\@cclv
16733     \vskip\skip\footins\fi
16734     \color@begingroup
16735     \normalcolor
16736     \footnoterule\unvbox\footins
16737     \color@endgroup
16738     \ifvoid\@bidi@copyins@
16739     \else
16740       \vskip \skip\@bidi@copyins@
16741       \color@begingroup
16742       \normalcolor
16743       \unvbox \@bidi@copyins@
16744       \color@endgroup
16745     \fi
16746   }%
16747 \fi
16748 \fi
16749 \xdef\@freelist{\@freelist\@midlist}%
16750 \global \let \@midlist \@empty
16751 \@combinefloats
16752 \ifvbox\@kludgeins
16753   \@makespecialcolbox
16754 \else
16755   \setbox\@outputbox\vbox to\@colht
16756   {\boxmaxdepth\maxdepth
16757     \@texttop
16758     \@tempdima\dp\@outputbox
16759     \unvbox\@outputbox
16760     \vskip-\@tempdima
16761     \@textbottom}%
16762 \fi
16763 \global\maxdepth\@maxdepth}
16764
16765 \let\leftfootnoterule\@empty
16766 \let\rightfootnoterule\@empty
16767 \let\textwidthfootnoterule\@empty

```



```

16768 \let\autofooterule\@empty
16769 \let\footnoterule\@empty
16770 \long\def\@makefntext#1{\parindent 1em
16771   \noindent\hbox to 2em{}}%
16772   \llap{\@thefnmark\hbox{.}\,\,}#1}
16773
16774 \setlength{\skip\@bidi@copyins@}
16775   {10pt plus 5pt minus 3pt}
16776 \AtBeginDocument{\prepare@bidi@copyins}

```

## 99 File graphicx-xetex-bidi.def

```

16777 \ProvidesFile{graphicx-xetex-bidi.def}[2017/06/17 v0.5 bidi adaptations for graphicx package]
16778 \def\Grot@box@std#1#2{\ifmmode\else\if@RTL\beginL\fi\fi%
16779   \Grot@setangle{#1}%
16780   \setbox\z@\hbox{\ifmmode\if@RTL\beginR\fi#2\if@RTL\endR\fi\else\if@RTL\beginR\fi#2\if@RTL
16781     \Grot@x\z@
16782     \Grot@y\z@
16783     \Grot@box\ifmmode\else\if@RTL\endL\fi\fi}
16784 \long\def\Grot@box@kv[#1]#2#3{\ifmmode\else\if@RTL\beginL\fi\fi%
16785   \@begin@tempboxa\hbox{\ifmmode\if@RTL\beginR\fi#3\if@RTL\endR\fi\else\if@RTL\beginR\fi#3\if
16786     \Grot@x\width \divide\Grot@x\tw@
16787     \Grot@y\height \advance\Grot@y-\depth \divide\Grot@y\tw@
16788     \setkeys{Grot}{#1}%
16789     \setbox\z@\box\@tempboxa
16790     \Grot@setangle{#2}%
16791     \Grot@box\ifmmode\else\if@RTL\endL\fi\fi
16792   \@end@tempboxa}
16793 \long\def\Gscale@box#1[#2]#3{\ifmmode\else\if@RTL\beginL\fi\fi%
16794   \leavevmode
16795   \def\Gscale@x{#1}\def\Gscale@y{#2}%
16796   \setbox\z@\hbox{#3}%
16797   \setbox\tw@\hbox{\Gscale@start\rlap{\copy\z@}\Gscale@end}%
16798   \ifdim#2\p@<\z@
16799     \ht\tw@-#2\dp\z@
16800     \dp\tw@-#2\ht\z@
16801   \else
16802     \ht\tw@#2\ht\z@
16803     \dp\tw@#2\dp\z@
16804   \fi
16805   \ifdim#1\p@<\z@
16806     \hb@xt@-#1\wd\z@{\kern-#1\wd\z@\box\tw@\hss}%
16807   \else
16808     \wd\tw@#1\wd\z@
16809     \box\tw@
16810   \fi\ifmmode\else\if@RTL\endL\fi\fi}
16811 \def\Gin@iii[#1,#2][#3,#4]#5{%
16812   \begingroup
16813   \ifmmode\else\if@RTL\beginL\fi\fi
16814   \Gin@bboxtrue
16815   \Gin@defaultbp\Gin@llx{#1}%
16816   \Gin@defaultbp\Gin@lly{#2}%
16817   \Gin@defaultbp\Gin@urx{#3}%
16818   \Gin@defaultbp\Gin@ury{#4}%

```



```

16819 \Ginclud@graphics{#5}%
16820 \ifmmode\else\if@RTL\endL\fi\fi
16821 \endgroup}
16822 \def\Gin@ii[#1]#2{%
16823   \def\@tempa{[]}\def\@tempb{#2}%
16824   \ifx\@tempa\@tempb
16825     \def\@tempa{\Gin@iii[#1] []}%
16826     \expandafter\@tempa
16827   \else
16828     \begingroup
16829       \ifmmode\else\if@RTL\beginL\fi\fi
16830       \@tempswafalse
16831       \toks@{\Ginclud@graphics{#2}}%
16832       \setkeys{Gin}{#1}%
16833       \Gin@esetsize
16834       \the\toks@
16835       \ifmmode\else\if@RTL\endL\fi\fi
16836     \endgroup
16837   \fi}
16838 \def\reflectbox{\bidiGscale@box-1[1]}
16839 \long\def\bidiGscale@box#1[#2]#3{\ifmmode\else\if@RTL\beginL\fi\fi%
16840 \leavevmode
16841 \def\Gscale@x{#1}\def\Gscale@y{#2}%
16842 \setbox\z@\hbox{\ifmmode\if@RTL\beginR\fi#3\if@RTL\endR\fi\else\if@RTL\beginR\fi#3\if@RTL
16843 \setbox\tw@\hbox{\Gscale@start\rlap{\copy\z@}\Gscale@end}%
16844 \ifdim#2\p@<\z@
16845   \ht\tw@-#2\dp\z@
16846   \dp\tw@-#2\ht\z@
16847 \else
16848   \ht\tw@#2\ht\z@
16849   \dp\tw@#2\dp\z@
16850 \fi
16851 \ifdim#1\p@<\z@
16852   \hb@xt@-#1\wd\z@{\kern-#1\wd\z@\box\tw@\hss}%
16853 \else
16854   \wd\tw@#1\wd\z@
16855   \box\tw@
16856 \fi\ifmmode\else\if@RTL\endL\fi\fi}
16857 \def\scalebox#1{%
16858 \@ifnextchar[{\bidiGscale@box{#1}}{\bidiGscale@box{#1}[#1]}}
16859 \def\resizebox{%
16860 \leavevmode
16861 \@ifstar{\bidiGscale@@box\totalheight}{\bidiGscale@@box\height}}
16862 \def\bidiGscale@@box#1#2#3{%
16863 \let\@tempa\Gin@exclamation
16864 \expandafter\def\expandafter\@tempb\expandafter{\string#2}%
16865 \expandafter\def\expandafter\@tempc\expandafter{\string#3}%
16866 \ifx\@tempb\@tempa
16867   \ifx\@tempc\@tempa
16868     \toks@{\mbox}%
16869   \else
16870     \toks@{\bidiGscale@@box@dd{#3}#1}%
16871   \fi
16872 \else

```



```

16873 \ifx\@tempc\@tempa
16874 \toks@{\bidiGscale@box@dd#2}\width}%
16875 \else
16876 \toks@{\bidiGscale@box@ddd#2}\width{#3}#1}%
16877 \fi
16878 \fi
16879 \the\toks@}
16880 \long\def\bidiGscale@box@dd#1#2#3{%
16881 \@begin@tempboxa\hbox{\ifmmode\if@RTL\beginR\fi#3\if@RTL\endR\fi\else\if@RTL\beginR\fi#3\if@RTL\endR\fi}%
16882 \setlength\@tempdima{#1}%
16883 \setlength\@tempdimb{#2}%
16884 \Gscale@div\@tempa\@tempdima\@tempdimb
16885 \Gscale@box\@tempa[\@tempa]{\box\@tempboxa}%
16886 \@end@tempboxa}
16887 \long\def\bidiGscale@box@ddd#1#2#3#4#5{%
16888 \@begin@tempboxa\hbox{\ifmmode\if@RTL\beginR\fi#5\if@RTL\endR\fi\else\if@RTL\beginR\fi#5\if@RTL\endR\fi}%
16889 \setlength\@tempdima{#1}%
16890 \setlength\@tempdimb{#2}%
16891 \Gscale@div\@tempa\@tempdima\@tempdimb
16892 \setlength\@tempdima{#3}%
16893 \setlength\@tempdimb{#4}%
16894 \Gscale@div\@tempb\@tempdima\@tempdimb
16895 \ifGin@iso
16896 \ifdim\@tempa\p@>\@tempb\p@
16897 \let\@tempa\@tempb
16898 \else
16899 \let\@tempb\@tempa
16900 \fi
16901 \fi
16902 \Gscale@box\@tempa[\@tempb]{\box\@tempboxa}%
16903 \@end@tempboxa}

```

## 100 File geometry-xetex-bidi.def

```

16904 \ProvidesFile{geometry-xetex-bidi.def}[2017/01/14 v0.2 bidi adaptations for geometry package]
16905 \renewcommand*{\Gm@vrules@mpi}{%
16906 \if@RTLmain%
16907 \hb@xt@\@tempdima{\hskip-\marginparwidth\hskip-\marginparsep
16908 \llap{\Gm@vrule}\ignorespaces
16909 \hskip \marginparwidth\rlap{\Gm@vrule}\hskip \marginparsep
16910 \llap{\Gm@vrule}\hskip\textwidth\rlap{\Gm@vrule}\hss}%
16911 \else%
16912 \hb@xt@\@tempdima{\llap{\Gm@vrule}\ignorespaces
16913 \hskip \textwidth\Gm@vrule\hskip \marginparsep
16914 \llap{\Gm@vrule}\hfil\Gm@vrule}\fi}%
16915 \renewcommand*{\Gm@vrules@mpii}{%
16916 \if@RTLmain%
16917 \hb@xt@\@tempdima{\llap{\Gm@vrule}\ignorespaces
16918 \hskip \textwidth\Gm@vrule\hskip \marginparsep
16919 \llap{\Gm@vrule}\hfil\Gm@vrule}%
16920 \else%
16921 \hb@xt@\@tempdima{\hskip-\marginparwidth\hskip-\marginparsep
16922 \llap{\Gm@vrule}\ignorespaces
16923 \hskip \marginparwidth\rlap{\Gm@vrule}\hskip \marginparsep

```



```

16924 \llap{\Gm@vrule}\hskip\textwidth\rlap{\Gm@vrule}\hss}\fi}%
16925 \bidi@patchcmd{\Gm@pageframes}{%
16926     \ifodd\count\z@
16927         \let\@themargin\oddsidemargin
16928     \else
16929         \let\@themargin\evensidemargin
16930     \fi
16931 }{%
16932     \ifodd\count\z@
16933         \if@RTLmain
16934             \let\@themargin\evensidemargin
16935         \else
16936             \let\@themargin\oddsidemargin
16937         \fi
16938     \else
16939         \if@RTLmain
16940             \let\@themargin\oddsidemargin
16941         \else
16942             \let\@themargin\evensidemargin
16943         \fi
16944     \fi
16945 }{}{}

```

## 101 File hvfloat-xetex-bidi.def

```

16946 \ProvidesFile{hvfloat-xetex-bidi.def}[2012/04/18 v0.2 bidi adaptations for hvfloat package f
16947 \def\do@hvFloat[#1]#2#3{%
16948 \def\hv@shortCap{#1}
16949 \def\hv@longCap{#2}
16950 \def\hv@label{#3}
16951 %\newcommand*{\hvFloat}[5] [] {%
16952 % #1: keyvalues
16953 % #2: type figure | table | ...
16954 % #3: float contents
16955 % #4: short caption
16956 % #5: caption
16957 % #6: label
16958 % \setDefault%
16959 % \def@tempa{#1}%
16960 % \ifx@tempa\empty\else\setkeys{hvSet}{#1}\fi% set options, only when not empty
16961 \def@tempa{90}%
16962 \ifx\hvSet@rotAngle@tempa \setlength{\hvMaxCapWidth}{\textheight}
16963 \else \setlength{\hvMaxCapWidth}{\linewidth}
16964 \fi
16965 %
16966 % First we save the object in \hvObjectBox
16967 %
16968 \ifx\hvSet@objectAngle\hv@Zero % rotate the object?
16969 \savebox{\hvObjectBox}{\ifhv@useOBox\usebox{\hvOBox}\else\hv@floatObject\fi}
16970 \else
16971 \savebox{\hvObjectBox}{%
16972 \rotatebox{\hvSet@objectAngle}{%
16973 \ifhv@useOBox\usebox{\hvOBox}\else\hv@floatObject\fi}}
16974 \fi

```



```

16975 \setlength{\hvObjectWidth}{\wd\hvObjectBox}
16976 %
16977 % Now we save the caption with its defined \hvCapWidth
16978 %
16979 \ifx\hvSet@capWidth\hv@Width\setlength{\hvCapWidth}{\hvObjectWidth}
16980 \else
16981   \ifx\hvSet@capWidth\hv@Height\setlength{\hvCapWidth}{\ht\hvObjectBox}
16982   \else
16983     \setlength{\hvCapWidth}{\hvObjectWidth}
16984     \ifx\hvSet@capPos\hv@Left\addtolength{\hvMaxCapWidth}{-\hvObjectWidth}\fi
16985     \ifx\hvSet@capPos\hv@Right\addtolength{\hvMaxCapWidth}{-\hvObjectWidth}\fi
16986     \ifdim\hvSet@capWidth\columnwidth<\hvMaxCapWidth
16987 \setlength{\hvCapWidth}{\hvSet@capWidth\columnwidth}
16988   \else
16989 \setlength{\hvCapWidth}{\hvMaxCapWidth}
16990   \fi
16991 \fi
16992 \fi
16993 %
16994 % now we have the object and the caption with the right
16995 % rotated angles saved in boxes
16996 %
16997 \def\fps@figure{\hvSet@floatPos}
16998 \ifhv@nonFloat\begin{group}% Start the nonfloat part
16999 \else \begin{\hv@floatType}% Start the floating environment
17000 \fi%
17001 \saveCaptionSkip% we put this space ourselve
17002 \ifx\hvSet@capAngle\hv@Width % need rotation?
17003   \sbox{\hvCaptionBox}{%
17004     \begin{minipage}[b]{\hvCapWidth}% minipage, to get hyphenation
17005       \ifhv@nonFloat%
17006         \ifhv@onlyText#2%
17007         \else%
17008         \ifx\hv@floatType\hv@figure
17009           \ifx\relax#1\relax \figcaption{#2}\else\figcaption[#1]{#2}\fi
17010         \else
17011           \ifx\relax#1\relax \tabcaption{#2}\else\tabcaption[#1]{#2}\fi%
17012         \fi
17013       \fi
17014     \else\ifx\relax\hv@shortCap\relax\caption{#2}\else\caption[#1]{#2}\fi%
17015     \fi%
17016     \label{#3}%
17017     \end{minipage}%
17018   }%
17019 \else%
17020   \sbox{\hvCaptionBox}{%
17021     \rotatebox{\hvSet@capAngle}{%
17022       \begin{minipage}[b]{\hvCapWidth}% minipage, to get hyphenation
17023 \ifhv@nonFloat%
17024       \ifhv@onlyText#2%
17025       \else%
17026       \ifx\hv@floatType\hv@figure
17027         \ifx\relax#1\relax \figcaption{#2}\else\figcaption[#1]{#2}\fi
17028       \else

```



```

17029     \ifx\relax#1\relax \tabcaption{#2}\else\tabcaption[#1]{#2}\fi%
17030     \fi
17031     \fi
17032 \else\ifx\relax\hv@shortCap\relax\caption{#2}\else\caption[#1]{#2}\fi%
17033     \fi%
17034     \label{#3}%
17035     \end{minipage}%
17036     }%
17037     }%
17038     \fi%
17039 %%
17040 \restoreCaptionSkip% save old values
17041 \ifx\hvSet@objectPos\hv@Right\bidiraggedleft%
17042 \else%
17043     \ifx\hvSet@objectPos\hv@Center
17044         \ifhv@nonFloat\hspace*{\fill}\else\centering\fi%
17045     \fi%
17046 \fi%
17047 %
17048 % to rotate object and caption together, we save all in another box
17049 % the caption comes first, if its on the left or the top
17050 %
17051 \savebox{\@tempboxa}{%
17052 \ifx\hvSet@capPos\hv@Left % caption on left side
17053 \if@RTL%
17054 \ifx\hvSet@capVPos\hv@Center%
17055     \ifhv@fbox
17056         \fbox{\parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}}%
17057     \else
17058         \parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}%
17059     \fi%
17060     \hspace{\hvSet@floatCapSep pt}%
17061     \ifhv@fbox
17062         \fbox{\parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}}%
17063     \else
17064         \parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}%
17065     \fi%
17066 \else%
17067     \ifx\hvSet@capVPos\hv@Top
17068         \ifhv@fbox
17069             \fbox{\raisebox{-\height}{\usebox{\hvObjectBox}}}%
17070         \else
17071             \raisebox{-\height}{\usebox{\hvObjectBox}}%
17072         \fi%
17073         \hspace{\hvSet@floatCapSep pt}%
17074         \ifhv@fbox
17075             \fbox{\raisebox{-\height}{\usebox{\hvCaptionBox}}}%
17076         \else
17077             \raisebox{-\height}{\usebox{\hvCaptionBox}}%
17078         \fi
17079     \else
17080         \ifhv@fbox
17081             \fbox{\usebox{\hvObjectBox}}%
17082         \else

```



```

17083         \usebox{\hvObjectBox}%
17084     \fi
17085     \hspace{\hvSet@floatCapSep pt}%
17086     \ifhv@fbox
17087         \fbox{\usebox{\hvCaptionBox}}%
17088     \else
17089         \usebox{\hvCaptionBox}%
17090     \fi%
17091 \fi%
17092 \fi%
17093 \else% not RTL
17094     \ifx\hvSet@capVPos\hv@Center%
17095         \ifhv@fbox\fbox{\parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}}%
17096     \else         \parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}%
17097     \fi%
17098     \hspace{\hvSet@floatCapSep pt}% capfloatsep
17099     \ifhv@fbox\fbox{\parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}}
17100 \else         \parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}
17101 \fi%
17102 \else%
17103     \ifx\hvSet@capVPos\hv@Top % caption at top
17104         \ifhv@fbox\fbox{\raisebox{-\height}{\usebox{\hvCaptionBox}}}%
17105     \else         \raisebox{-\height}{\usebox{\hvCaptionBox}}%
17106     \fi
17107     \hspace{\hvSet@floatCapSep pt}% capfloatsep
17108     \ifhv@fbox\fbox{\raisebox{-\height}{\usebox{\hvObjectBox}}}%
17109 \else         \raisebox{-\height}{\usebox{\hvObjectBox}}%
17110 \fi%
17111 \else% caption on bottom
17112     \ifhv@fbox\fbox{\usebox{\hvCaptionBox}}
17113     \else\usebox{\hvCaptionBox}
17114     \fi%
17115     \hspace{\hvSet@floatCapSep pt}%
17116     \ifhv@fbox\fbox{\usebox{\hvObjectBox}}
17117 \else         \usebox{\hvObjectBox}
17118 \fi%
17119 \fi%
17120 \fi% end of RTL
17121 \fi%
17122 \else
17123     \ifx\hvSet@capPos\hv@Top
17124         \ifdim\wd\hvCaptionBox>\wd\hvObjectBox
17125             \begin{minipage}{\wd\hvCaptionBox}
17126         \else
17127             \begin{minipage}{\wd\hvObjectBox}
17128         \fi
17129         \centering
17130         \ifhv@fbox
17131             \fbox{\usebox{\hvCaptionBox}}\[\hvBelowCaptionSkip]
17132             \fbox{\usebox{\hvObjectBox}}
17133         \else
17134             \usebox{\hvCaptionBox}\[\hvBelowCaptionSkip]
17135             \usebox{\hvObjectBox}
17136         \fi%

```





```

17137 \end{minipage}
17138 \else
17139 \ifx\hvSet@capPos\hv@Bottom
17140 \ifdim\wd\hvCaptionBox>\wd\hvObjectBox
17141 \begin{minipage}{\wd\hvCaptionBox}
17142 \else
17143 \begin{minipage}{\wd\hvObjectBox}
17144 \fi
17145 \centering
17146 \ifhv@fbox
17147 \fbox{\usebox{\hvObjectBox}}\[\hvAboveCaptionSkip]
17148 \fbox{\usebox{\hvCaptionBox}}
17149 \else
17150 \usebox{\hvObjectBox}\[\hvAboveCaptionSkip]
17151 \usebox{\hvCaptionBox}
17152 \fi%
17153 \end{minipage}
17154 \else% the last option: put the caption on the right
17155 \if@RTL%
17156 \ifx\hvSet@capVPos\hv@Center%
17157 \ifhv@fbox\fbox{\parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}}%
17158 \else \parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}%
17159 \fi%
17160 \hspace{\hvSet@floatCapSep pt}% capfloatsep
17161 \ifhv@fbox\fbox{\parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}}%
17162 \else \parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}
17163 \fi%
17164 \else%
17165 \ifx\hvSet@capVPos\hv@Top % caption at top
17166 \ifhv@fbox\fbox{\raisebox{-\height}{\usebox{\hvCaptionBox}}}%
17167 \else \raisebox{-\height}{\usebox{\hvCaptionBox}}%
17168 \fi
17169 \hspace{\hvSet@floatCapSep pt}% capfloatsep
17170 \ifhv@fbox\fbox{\raisebox{-\height}{\usebox{\hvObjectBox}}}%
17171 \else \raisebox{-\height}{\usebox{\hvObjectBox}}%
17172 \fi%
17173 \else% caption on bottom
17174 \ifhv@fbox\fbox{\usebox{\hvCaptionBox}}
17175 \else\usebox{\hvCaptionBox}
17176 \fi%
17177 \hspace{\hvSet@floatCapSep pt}%
17178 \ifhv@fbox\fbox{\usebox{\hvObjectBox}}
17179 \else \usebox{\hvObjectBox}
17180 \fi%
17181 \fi%
17182 \fi%
17183 \else% not RTL
17184 \ifx\hvSet@capVPos\hv@Center%
17185 \ifhv@fbox
17186 \fbox{\parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}}%
17187 \else
17188 \parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}
17189 \fi%
17190 \hspace{\hvSet@floatCapSep pt}%

```



```

17191     \ifhv@fbox
17192     \fbox{\parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}}%
17193     \else
17194     \parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}
17195     \fi%
17196 \else%
17197 \ifx\hvSet@capVPos\hv@Top
17198     \ifhv@fbox
17199     \fbox{\raisebox{-\height}{\usebox{\hvObjectBox}}}%
17200     \else
17201     \raisebox{-\height}{\usebox{\hvObjectBox}}%
17202     \fi%
17203     \hspace{\hvSet@floatCapSep pt}%
17204     \ifhv@fbox
17205     \fbox{\raisebox{-\height}{\usebox{\hvCaptionBox}}}%
17206     \else
17207     \raisebox{-\height}{\usebox{\hvCaptionBox}}%
17208     \fi
17209     \else
17210     \ifhv@fbox
17211     \fbox{\usebox{\hvObjectBox}}%
17212     \else
17213     \usebox{\hvObjectBox}%
17214     \fi
17215     \hspace{\hvSet@floatCapSep pt}%
17216     \ifhv@fbox
17217     \fbox{\usebox{\hvCaptionBox}}%
17218     \else
17219     \usebox{\hvCaptionBox}%
17220     \fi%
17221     \fi%
17222     \fi
17223 \fi% end of RTL
17224     \fi
17225     \fi
17226     \fi
17227 }% End savebox Object and caption
17228 %
17229 % now we rotate the object and caption, if needed
17230 %
17231 \ifx\hvSet@rotAngle\hv@Zero
17232     \usebox{\@tempboxa}
17233 \else
17234     \rotatebox{\hvSet@rotAngle}{\usebox{\@tempboxa}}
17235 \fi
17236 \ifhv@nonFloat
17237 \ifx\hvSet@objectPos\hv@Center
17238     \ifhv@nonFloat
17239     \hspace{\fill}
17240     \fi
17241     \fi
17242 \endgroup% End the nonfloat part
17243 \else
17244 \end{\hv@floatType}% End the floating environment

```



```
17245 \fi
17246 }
```

## 102 File hyperref-xetex-bidi.def

```
17247 \ProvidesFile{hyperref-xetex-bidi.def}[2025/01/03 v1.2 bidi adaptations for hyperref package]
17248 \AtBeginDocument{%
17249 \def\contentsline#1#2#3#4{%
17250 \ifx\#4\%
17251 \csname l@#1\endcsname{#2}{#3}%
17252 \else
17253 \ifcase\Hy@linktoc % none
17254 \csname l@#1\endcsname{#2}{#3}%
17255 \or % section
17256 \csname l@#1\endcsname{%
17257 \hyper@linkstart{link}{#4}{\if@RTL\beginR\fi#2\if@RTL\endR\fi}\hyper@linkend
17258 }{#3}%
17259 \or % page
17260 \csname l@#1\endcsname{{#2}}{%
17261 \hyper@linkstart{link}{#4}{#3}\hyper@linkend
17262 }%
17263 \else % all
17264 \csname l@#1\endcsname{%
17265 \hyper@linkstart{link}{#4}{\if@RTL\beginR\fi#2\if@RTL\endR\fi}\hyper@linkend
17266 }{%
17267 \hyper@linkstart{link}{#4}{#3}\hyper@linkend
17268 }%
17269 \fi
17270 \fi
17271 }
17272 \ifHy@hyperfootnotes
17273 \let\H@footnotetext\@footnotetext
17274 \let\HRTL@RTLfootnotetext\@RTLfootnotetext
17275 \let\HLTR@LTRfootnotetext\@LTRfootnotetext
17276 \def\xfootnotenext[#1]{%
17277 \begingroup
17278 \csname c@#1\endcsname #1\relax
17279 \unrestored@protected@xdef\@thefnmark{\thempfn}%
17280 \endgroup
17281 \ifx\@footnotetext\@mpfootnotetext
17282 \expandafter\H@mpfootnotetext
17283 \else
17284 \expandafter\H@footnotetext
17285 \fi
17286 }%
17287 \def\xRTLfootnotenext[#1]{%
17288 \begingroup
17289 \csname c@#1\endcsname #1\relax
17290 \unrestored@protected@xdef\@thefnmark{\thempfn}%
17291 \endgroup
17292 \ifx\@RTLfootnotetext\@mpRTLfootnotetext
17293 \expandafter\HRTL@mpRTLfootnotetext
17294 \else
17295 \expandafter\HRTL@RTLfootnotetext
```



```

17296 \fi
17297 }%
17298 \def\xLTRfootnotenext[#1]{%
17299 \begingroup
17300 \csname c@\mpfn\endcsname #1\relax
17301 \unrestored@protected@xdef\thefnmark{\thempfn}%
17302 \endgroup
17303 \ifx\@LTRfootnotetext\@mpLTRfootnotetext
17304 \expandafter\HLTR@\mpLTRfootnotetext
17305 \else
17306 \expandafter\HLTR@\@LTRfootnotetext
17307 \fi
17308 }%
17309 \def\@xfootnotemark[#1]{%
17310 \begingroup
17311 \c@footnote #1\relax
17312 \unrestored@protected@xdef\thefnmark{\thefootnote}%
17313 \endgroup
17314 \H@\@footnotemark
17315 }%
17316 \let\H@\mpfootnotetext\@mpfootnotetext
17317 \let\HRTL@\mpRTLfootnotetext\@mpRTLfootnotetext
17318 \let\HLTR@\mpLTRfootnotetext\@mpLTRfootnotetext
17319 \long\def\@mpfootnotetext#1{%
17320 \H@\mpfootnotetext{%
17321 \ifHy@nesting
17322 \hyper@@anchor{\Hy@footnote@currentHref}{#1}%
17323 \else
17324 \Hy@raisedlink{%
17325 \hyper@@anchor{\Hy@footnote@currentHref}{\relax}%
17326 }#1%
17327 \fi
17328 }%
17329 }%
17330 \long\def\@mpRTLfootnotetext#1{%
17331 \HRTL@\mpRTLfootnotetext{%
17332 \ifHy@nesting
17333 \hyper@@anchor{\Hy@footnote@currentHref}{#1}%
17334 \else
17335 \Hy@raisedlink{%
17336 \hyper@@anchor{\Hy@footnote@currentHref}{\relax}%
17337 }#1%
17338 \fi
17339 }%
17340 }%
17341 \long\def\@mpLTRfootnotetext#1{%
17342 \HLTR@\mpLTRfootnotetext{%
17343 \ifHy@nesting
17344 \hyper@@anchor{\Hy@footnote@currentHref}{#1}%
17345 \else
17346 \Hy@raisedlink{%
17347 \hyper@@anchor{\Hy@footnote@currentHref}{\relax}%
17348 }#1%
17349 \fi

```



```

17350 }%
17351 }%
17352 \long\def\@footnotetext#1{%
17353 \H@@footnotetext{%
17354 \ifHy@nesting
17355 \hyper@@anchor{\Hy@footnote@currentHref}{#1}%
17356 \else
17357 \Hy@raisedlink{%
17358 \hyper@@anchor{\Hy@footnote@currentHref}{\relax}%
17359 }%
17360 \let\@currentHlabel\Hy@footnote@currentHlabel
17361 \let\@currentHref\Hy@footnote@currentHref
17362 \let\@currentlabelname\@empty
17363 #1%
17364 \fi
17365 }%
17366 }%
17367 \long\def\@RTLfootnotetext#1{%
17368 \HRTL@RTLfootnotetext{%
17369 \ifHy@nesting
17370 \hyper@@anchor{\Hy@footnote@currentHref}{#1}%
17371 \else
17372 \Hy@raisedlink{%
17373 \hyper@@anchor{\Hy@footnote@currentHref}{\relax}%
17374 }%
17375 \let\@currentHlabel\Hy@footnote@currentHlabel
17376 \let\@currentHref\Hy@footnote@currentHref
17377 \let\@currentlabelname\@empty
17378 #1%
17379 \fi
17380 }%
17381 }%
17382 \long\def\@LTRfootnotetext#1{%
17383 \HLTR@LTRfootnotetext{%
17384 \ifHy@nesting
17385 \hyper@@anchor{\Hy@footnote@currentHref}{#1}%
17386 \else
17387 \Hy@raisedlink{%
17388 \hyper@@anchor{\Hy@footnote@currentHref}{\relax}%
17389 }%
17390 \let\@currentHlabel\Hy@footnote@currentHlabel
17391 \let\@currentHref\Hy@footnote@currentHref
17392 \let\@currentlabelname\@empty
17393 #1%
17394 \fi
17395 }%
17396 }%
17397 \ApplyPatchCodeToPackage{tabularx}{%
17398 \let\HyOrg@TX@endtabularx\TX@endtabularx
17399 \def\Hy@tabularx@hook{%
17400 \let\@footnotetext\H@@footnotetext
17401 \let\@LTRfootnotetext\HLTR@LTRfootnotetext
17402 \let\@RTLfootnotetext\HRTL@RTLfootnotetext
17403 \let\@footnotemark\H@@footnotemark

```



```

17404     \let\@mpfootnotetext\H@mpfootnotetext
17405     \let\@mpLTRfootnotetext\HLTR@mpLTRfootnotetext
17406     \let\@mpRTLfootnotetext\HRTL@mpRTLfootnotetext
17407 }%
17408 \begingroup
17409   \toks@\expandafter{\TX@endtabularx}%
17410   \xdef\Hy@gtemp{%
17411     \noexpand\Hy@tabularx@hook
17412     \the\toks@
17413   }%
17414 \endgroup
17415 \let\TX@endtabularx\Hy@gtemp
17416 }%
17417 \ApplyPatchCodeToPackage{longtable}{%
17418 \CheckCommand*{\LT@p@LTRftntext}[1]{%
17419   \edef\@tempa{%
17420     \the\LT@p@ftn
17421     \noexpand\LTRfootnotetext[\the\c@footnote]}%
17422   }%
17423   \global\LT@p@ftn\expandafter{\@tempa{#1}}%
17424 }%
17425 \long\def\LT@p@LTRftntext#1{%
17426   \edef\@tempa{%
17427     \the\LT@p@ftn
17428     \begingroup
17429       \noexpand\c@footnote=\the\c@footnote\relax
17430       \noexpand\protected@xdef\noexpand\@thefnmark{%
17431         \noexpand\thempfn
17432       }%
17433       \noexpand\Hy@LT@LTRfootnotetext{%
17434         \Hy@footnote@currentHref
17435       }%
17436     }%
17437     \global\LT@p@ftn\expandafter{%
17438       \@tempa{#1}%
17439     }%
17440   }%
17441 }%
17442 \long\def\Hy@LT@LTRfootnotetext#1#2{%
17443   \HLTR@LTRfootnotetext{%
17444     \ifHy@nesting
17445       \hyper@@anchor{#1}{#2}%
17446     \else
17447       \Hy@raisedlink{%
17448         \hyper@@anchor{#1}{\relax}%
17449       }%
17450     \def\@currentHref{#1}%
17451     \let\@currentlabelname\@empty
17452     #2%
17453   }%
17454 }%
17455 }%
17456 \CheckCommand*{\LT@p@RTLftntext}[1]{%
17457   \edef\@tempa{%

```



```

17458     \the\LT@p@ftn
17459     \noexpand\RTLfootnotetext[\the\c@footnote]%
17460   }%
17461   \global\LT@p@ftn\expandafter{\@tempa{#1}}%
17462 }%
17463 \long\def\LT@p@RTLftntext#1{%
17464   \edef\@tempa{%
17465     \the\LT@p@ftn
17466     \begingroup
17467     \noexpand\c@footnote=\the\c@footnote\relax
17468     \noexpand\protected@xdef\noexpand\@thefnmark{%
17469       \noexpand\thempfn
17470     }%
17471     \noexpand\Hy@LT@RTLfootnotetext{%
17472       \Hy@footnote@currentHref
17473     }%
17474   }%
17475   \global\LT@p@ftn\expandafter{%
17476     \@tempa{#1}%
17477   \endgroup
17478 }%
17479 }%
17480 \long\def\Hy@LT@RTLfootnotetext#1#2{%
17481   \HRTL@RTLfootnotetext{%
17482     \ifHy@nesting
17483       \hyper@@anchor{#1}{#2}%
17484     \else
17485       \Hy@raisedlink{%
17486         \hyper@@anchor{#1}{\relax}%
17487       }%
17488       \def\@currentHref{#1}%
17489       \let\@currentlabelname\@empty
17490       #2%
17491     \fi
17492   }%
17493 }%
17494 }%
17495 \ApplyPatchCodeToPackage{bidipoem}{%
17496 \long\def\bidipoem@p@ftntext#1{%
17497   \edef\@tempx{%
17498     \the\bidipoem@p@ftn
17499     \begingroup
17500     \noexpand\c@name c@\@mpfn\endc@name=\the\c@name c@\@mpfn\endc@name\relax
17501     \noexpand\protected@xdef\noexpand\@thefnmark{%
17502       \noexpand\thempfn
17503     }%
17504     \noexpand\Hy@bidipoem@footnotetext{%
17505       \Hy@footnote@currentHref
17506     }%
17507   }%
17508   \global\bidipoem@p@ftn\expandafter{%
17509     \@tempx{#1}%
17510   \endgroup
17511 }%

```



```

17512 }%
17513 \long\def\Hy@bidipoem@footnotetext#1#2{%
17514   \H@footnotetext{%
17515     \ifHy@nesting
17516       \hyper@@anchor{#1}{#2}%
17517     \else
17518       \Hy@raisedlink{%
17519         \hyper@@anchor{#1}{\relax}%
17520       }%
17521       \def\@currentHref{#1}%
17522       \let\@currentlabelname\@empty
17523       #2%
17524     \fi
17525   }%
17526 }%
17527 \long\def\bidipoem@p@LTRftntext#1{%
17528 \edef\@tempxi{%
17529   \the\bidipoem@p@ftn
17530 \begingroup
17531   \noexpand\csname c@\@mpfn\endcsname=\the\csname c@\@mpfn\endcsname\relax
17532   \noexpand\protected@xdef\noexpand\@thefnmark{%
17533     \noexpand\thempfn
17534   }%
17535   \noexpand\Hy@bidipoem@LTRfootnotetext{%
17536     \Hy@footnote@currentHref
17537   }%
17538 }%
17539 \global\bidipoem@p@ftn\expandafter{%
17540   \@tempxi{#1}%
17541 \endgroup
17542 }%
17543 }%
17544 \long\def\Hy@bidipoem@LTRfootnotetext#1#2{%
17545   \HLTR@@LTRfootnotetext{%
17546     \ifHy@nesting
17547       \hyper@@anchor{#1}{#2}%
17548     \else
17549       \Hy@raisedlink{%
17550         \hyper@@anchor{#1}{\relax}%
17551       }%
17552       \def\@currentHref{#1}%
17553       \let\@currentlabelname\@empty
17554       #2%
17555     \fi
17556   }%
17557 }%
17558 \long\def\bidipoem@p@RTLftntext#1{%
17559 \edef\@tempxii{%
17560   \the\bidipoem@p@ftn
17561 \begingroup
17562   \noexpand\csname c@\@mpfn\endcsname=\the\csname c@\@mpfn\endcsname\relax
17563   \noexpand\protected@xdef\noexpand\@thefnmark{%
17564     \noexpand\thempfn
17565   }%

```





```

17566         \noexpand\Hy@bidipoem@RTLfootnotetext{%
17567             \Hy@footnote@currentHref
17568         }%
17569     }%
17570     \global\bidipoem@p@ftn\expandafter{%
17571         \@tempxi{#1}%
17572     \endgroup
17573     }%
17574 }%
17575 \long\def\Hy@bidipoem@RTLfootnotetext#1#2{%
17576     \HRTL@RTLfootnotetext{%
17577         \ifHy@nesting
17578             \hyper@@anchor{#1}{#2}%
17579         \else
17580             \Hy@raisedlink{%
17581                 \hyper@@anchor{#1}{\relax}%
17582             }%
17583             \def\@currentHref{#1}%
17584             \let\@currentlabelname\@empty
17585             #2%
17586         \fi
17587     }%
17588 }%
17589 }%
17590 \let\HyOrg@maketitle\maketitle
17591 \def\maketitle{%
17592     \let\Hy@saved@footnotemark\@footnotemark
17593     \let\Hy@saved@footnotetext\@footnotetext
17594     \let\HyRTL@saved@RTLfootnotetext\@RTLfootnotetext
17595     \let\HyLTR@saved@LTRfootnotetext\@LTRfootnotetext
17596     \let\@footnotemark\H@@footnotemark
17597     \let\@footnotetext\H@@footnotetext
17598     \let\@RTLfootnotetext\HRTL@RTLfootnotetext
17599     \let\@LTRfootnotetext\HLTR@LTRfootnotetext
17600     \@ifnextchar [\Hy@maketitle@optarg{ % ]
17601         \HyOrg@maketitle
17602         \Hy@maketitle@end
17603     }%
17604 }%
17605 \def\Hy@maketitle@optarg[#1]{%
17606     \HyOrg@maketitle[#{#1}]%
17607     \Hy@maketitle@end
17608 }%
17609 \def\Hy@maketitle@end{%
17610     \ifx\@footnotemark\H@@footnotemark
17611         \let\@footnotemark\Hy@saved@footnotemark
17612         \fi
17613     \ifx\@footnotetext\H@@footnotetext
17614         \let\@footnotetext\Hy@saved@footnotetext
17615     \fi
17616     \ifx\@RTLfootnotetext\HRTL@RTLfootnotetext
17617         \let\@RTLfootnotetext\HyRTL@saved@RTLfootnotetext
17618     \fi
17619     \ifx\@LTRfootnotetext\HLTR@LTRfootnotetext

```



```

17620     \let\@LTRfootnotetext\HyLTR@saved@LTRfootnotetext
17621     \fi
17622   }%
17623   \def\realfootnote{%
17624     \@ifnextchar[\@xfootnote{%
17625       \stepcounter{\@mpfn}%
17626       \protected@xdef\@thefnmark{\thempfn}%
17627       \H@@footnotemark\H@@footnotetext
17628     }%
17629   }%
17630 \fi
17631 \def\Hy@BeginAnnot#1{%
17632   \ifmmode\else\beginL\fi%
17633   \global\advance\c@Hy@AnnotLevel\@ne
17634   \ifnum\c@Hy@AnnotLevel=\@ne
17635     #1%
17636   \fi
17637 }
17638 \def\Hy@endAnnot{%
17639   \ifnum\c@Hy@AnnotLevel=\@ne
17640     \Hy@endcolorlink
17641     \@pdfm@mark{eann}%
17642   \fi
17643   \global\advance\c@Hy@AnnotLevel\m@ne
17644   \ifmmode\else\endL\fi%
17645 }
17646 \def\hyper@link#1#2#3{%
17647   \hyper@linkstart{#1}{#2}\ifmmode\else\if@RTL\beginR\fi\fi#3\ifmmode\else\if@RTL\endR\fi\fi%
17648 }
17649 \def\hyper@linkfile#1#2#3{%
17650   \leavevmode
17651   \Hy@BeginAnnot{%
17652     \def\Hy@pstringF{#2}%
17653     \Hy@CleanupFile\Hy@pstringF
17654     \Hy@pstringdef\Hy@pstringF\Hy@pstringF
17655     \Hy@pstringdef\Hy@pstringD{#3}%
17656     \Hy@MakeRemoteAction
17657     \@pdfm@mark{%
17658       bann<<%
17659       /Type/Annot%
17660       /Subtype/Link%
17661       \ifHy@pdfa /F 4\fi
17662       \Hy@setpdfborder
17663       \ifx\@filebordercolor\relax
17664         \else
17665           /C[\@filebordercolor]%
17666         \fi
17667       /A<<%
17668       /S/GoToR%
17669       /F(\Hy@pstringF)%
17670       /D%
17671       \ifx\#3\%
17672         [\Hy@href@page\@pdfremotestartview]%
17673       \else

```



```

17674         (\Hy@pstringD)%
17675         \fi
17676         \Hy@SetNewWindow
17677         \Hy@href@nextactionraw
17678         >>%
17679     >>%
17680 }%
17681 \Hy@colorlink\@filecolor
17682 }%
17683 \ifmmode\else\if@RTL\beginR\fi\fi#1\ifmmode\else\if@RTL\endR\fi\fi\Hy@xspace@end
17684 \Hy@EndAnnot
17685 }
17686 \def\@hyper@launch run:#1\#2#3{% filename, anchor text linkname
17687 \leavevmode
17688 \Hy@BeginAnnot{%
17689 \Hy@pstringdef\Hy@pstringF{#1}%
17690 \Hy@pstringdef\Hy@pstringP{#3}%
17691 \@pdfm@mark{%
17692     bann<<%
17693     /Type/Annot%
17694     /Subtype/Link%
17695     \ifHy@pdfa /F 4\fi
17696     \Hy@setpdfborder
17697     \ifx\@runbordercolor\relax
17698     \else
17699     /C[\@runbordercolor]%
17700     \fi
17701     /A<<%
17702     /F(\Hy@pstringF)%
17703     /S/Launch%
17704     \Hy@SetNewWindow
17705     \ifx\#3\%
17706     \else
17707     /Win<</P(\Hy@pstringP)/F(\Hy@pstringF)>>%
17708     \fi
17709     \Hy@href@nextactionraw
17710     >>%
17711     >>%
17712 }%
17713 \Hy@colorlink\@runcolor
17714 }%
17715 \ifmmode\else\if@RTL\beginR\fi\fi#2\ifmmode\else\if@RTL\endR\fi\fi\Hy@xspace@end
17716 \Hy@EndAnnot
17717 }
17718 \def\hyper@linkurl#1#2{%
17719 \leavevmode
17720 \Hy@BeginAnnot{%
17721 \Hy@pstringdef\Hy@pstringURI{#2}%
17722 \@pdfm@mark{%
17723     bann<<%
17724     /Type/Annot%
17725     /Subtype/Link%
17726     \ifHy@pdfa /F 4\fi
17727     \Hy@setpdfborder

```



```

17728     \ifx\@urlbordercolor\relax
17729     \else
17730         /C[\@urlbordercolor]%
17731     \fi
17732     /A<<%
17733         /S/URI%
17734         /URI(\Hy@pstringURI)%
17735         \ifHy@href@ismap
17736             /IsMap true%
17737         \fi
17738         \Hy@href@nextactionraw
17739     >>%
17740 >>%
17741 }%
17742 \Hy@colorlink\@urlcolor
17743 }%
17744 \ifmmode\else\if@RTL\beginR\fi\fi#1\ifmmode\else\if@RTL\endR\fi\fi\Hy@xspace@end
17745 \Hy@EndAnnot
17746 }
17747 \def\Acrobatmenu#1#2{%
17748 \Hy@Acrobatmenu{#1}{#2}{%
17749 \Hy@BeginAnnot{%
17750 \EdefEscapeName\Hy@temp@menu{#1}%
17751 \@pdfm@mark{%
17752     bann<<%
17753         /Type/Annot%
17754         /Subtype/Link%
17755         \ifHy@pdfa /F 4\fi
17756         \Hy@setpdfborder
17757         \ifx\@menubordercolor\relax
17758         \else
17759             /C[\@menubordercolor]%
17760         \fi
17761         /A<<%
17762         /S/Named%
17763         /N/\Hy@temp@menu
17764         \Hy@href@nextactionraw
17765     >>%
17766     >>%
17767     }%
17768     \Hy@colorlink\@menucolor
17769 }%
17770 \ifmmode\else\if@RTL\beginR\fi\fi#2\ifmmode\else\if@RTL\endR\fi\fi\Hy@xspace@end
17771 \Hy@EndAnnot
17772 }%
17773 }
17774 \def\hyper@natlinkstart#1{%
17775 \Hy@backout{#1}%
17776 \hyper@linkstart{cite}{cite.#1}\if@RTL\beginR\fi%
17777 \def\hyper@nat@current{#1}%
17778 }
17779 \def\hyper@natlinkend{%
17780 \if@RTL\endR\fi\hyper@linkend
17781 }

```



```

17782 \def\hyper@natlinkbreak#1#2{%
17783   \if@RTL\endR\fi\hyper@linkend#1\hyper@linkstart{cite}{cite.#2}\if@RTL\beginR\fi%
17784 }%
17785 }
17786 \pdfstringdefDisableCommands{%
17787 \let\LRE\@firstofone
17788 \let\LR\@firstofone
17789 \let\RLE\@firstofone
17790 \let\RL\@firstofone
17791 \def\XeTeX{Xe\TeX}%
17792 \def\XeLaTeX{Xe\LaTeX}%
17793 }
17794 \ApplyPatchCodeToPackage{longtable}{%
17795   \begingroup
17796     \def\y{\LT@array}%
17797     \ifundefined{scr@LT@array}{%
17798       \ifundefined{adl@LT@array}{\def\y{adl@LT@array}}%
17799     }{\def\y{scr@LT@array}}%
17800     \long\def\x\refstepcounter#1#2\@sharp#3#4\@nil{%
17801       \expandafter\endgroup
17802       \expandafter\def\y[##1]##2{%
17803         \H@refstepcounter{#1}%
17804         \hyper@makecurrent{table}%
17805         \let\Hy@LT@currentHref\@currentHref
17806         #2\@sharp####4%
17807       }%
17808     }%
17809     \expandafter\expandafter\expandafter\x\y[##1][##2]\@nil
17810     \begingroup
17811     \def\x#1\ifvoid\LT@foot#2\fi#3\@nil{%
17812       \endgroup
17813       \def\LT@start{%
17814         #1%
17815         \ifvoid\LT@foot#2\fi
17816         \let\@currentHref\Hy@LT@currentHref
17817         \Hy@raisedlink{%
17818           \hyper@anchorstart{\@currentHref}\hyper@anchorend
17819         }%
17820         #3%
17821       }%
17822     }%
17823     \expandafter\x\LT@start\@nil
17824 }
17825 \bidi@patchcmd\@TextField{%
17826   \@pdfm@mark
17827 }{%
17828   \if@RTL
17829     \hskip\Fld@width
17830   \fi
17831   \@pdfm@mark
17832 }{}{}
17833 \bidi@patchcmd\@TextField{%
17834   \unhbox
17835 }{%

```



```

17836 \if@RTL
17837   \hskip-\Fld@width
17838 \fi
17839 \unhbox
17840 }{}{}
17841 \bidi@patchcmd\@@Radio{%
17842   \@pdfm@mark
17843 }{}{}
17844 \if@RTL
17845   \hskip\Fld@width
17846 \fi
17847 \@pdfm@mark
17848 }{}{}
17849 \bidi@patchcmd\@@Radio{%
17850   \unhcopy
17851 }{}{}
17852 \if@RTL
17853   \hskip-\Fld@width
17854 \fi
17855 \unhcopy
17856 }{}{}
17857 \bidi@patchcmd\@Submit{%
17858   \@pdfm@mark
17859 }{}{}
17860 \if@RTL
17861   \null
17862   \hskip\wd\pdfm@box
17863 \fi
17864 \@pdfm@mark
17865 }{}{}
17866 \bidi@patchcmd\@Submit{%
17867   \unhbox
17868 }{}{}
17869 \if@RTL
17870   \hskip-\wd\pdfm@box
17871 \fi
17872 \unhbox
17873 }{}{}
17874 \bidi@patchcmd\@Reset{%
17875   \@pdfm@mark
17876 }{}{}
17877 \if@RTL
17878   \null
17879   \hskip\wd\pdfm@box
17880 \fi
17881 \@pdfm@mark
17882 }{}{}
17883 \bidi@patchcmd\@Reset{%
17884   \unhbox
17885 }{}{}
17886 \if@RTL
17887   \hskip-\wd\pdfm@box
17888 \fi
17889 \unhbox

```



17890 }{}{}

## 103 File imspdoc-xetex-bidi.def

```
17891 \ProvidesFile{imspdoc-xetex-bidi.def}[2017/06/09 v0.1 bidi adaptations for imspdoc class for
17892 \newenvironment{thebibliography}[1]{%
17893   \@bibtitlestyle
17894   \normalfont\bibliofont\labelsep .5em\relax
17895   \renewcommand\theenumiv{\arabic{enumiv}}\let\p@enumiv\@empty
17896   \ifRTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
17897   \bidi@thebibliography@font@hook
17898   \list{\@biblabel{\theenumiv}}{\settowidth\labelwidth{\@biblabel{#1}}%
17899     \leftmargin\labelwidth \advance\leftmargin\labelsep
17900     \usecounter{enumiv}}%
17901   \sloppy \clubpenalty\@M \widowpenalty\clubpenalty
17902   \sfcode`\.=\@m
17903 }{}%
17904 \def\@noitemerr{\@latex@warning{Empty `thebibliography' environment}}%
17905 \endlist
17906 }
17907
17908 \def\theindex{\@restonecoltrue\if@twocolumn\@restonecolfalse\fi
17909 \columnseprule\z@ \columnsep 35\p@
17910 \@indextitlestyle
17911 \thispagestyle{plain}%
17912 \let\item\@idxitem
17913 \parindent\z@ \parskip\z@\@plus.3\p@\relax
17914 \ifRTL\raggedleft\else\raggedright\fi
17915 \hyphenpenalty\@M
17916 \footnotesize}
17917 \def\@idxitem{\par\hangindent \ifRTL-\fi2em}
17918 \def\subitem{\par\hangindent \ifRTL-\fi2em\hspace*{1em}}
17919 \def\subsubitem{\par\hangindent \ifRTL-\fi3em\hspace*{2em}}
17920
17921 \def\right@footnoterule{%
17922   \kern-.4\p@
17923   \hbox to \columnwidth{\hskip \dimexpr\columnwidth-5pc\relax \hrulefill }
17924   \kern11\p@\kern-\footnotesep}
17925 \def\left@footnoterule{\kern-.4\p@
17926   \hrule\@width 5pc\kern11\p@\kern-\footnotesep}
17927 \def\@makefnmark{%
17928   \leavevmode
17929   \raise.9ex\hbox{\fontsize\sf@size\z@\normalfont\@thefnmark}}%
17930 }
17931
17932 \def\part{\@startsection{part}{0}%
17933   \z@\{\linespacing\@plus\linespacing}{.5\linespacing}%
17934   {\normalfont\bfseries\ifRTL\raggedleft\else\raggedright\fi}}
17935 \def\@tocline#1#2#3#4#5#6#7{\relax
17936   \ifnum #1>\c@tocdepth % then omit
17937   \else
17938     \par \addpenalty\@secpenalty\addvspace{#2}%
17939     \begingroup \hyphenpenalty\@M
17940     \@ifempty{#4}{%
```



```

17941     \@tempdima\csname r@tocindent\number#1\endcsname\relax
17942   }{%
17943     \@tempdima#4\relax
17944   }%
17945   \parindent\z@ \if@RTL\rightskip\else\leftskip\fi#3\relax \advance\if@RTL\rightskip\else\
17946   \if@RTL\leftskip\else\rightskip\fi\pnumwidth plus4em \parfillskip-\@pnumwidth
17947   #5\leavevmode\hskip-\@tempdima #6\nobreak\relax
17948   \hfil\hbox to\@pnumwidth{\@tocpagenum{#7}}\par
17949   \nobreak
17950   \endgroup
17951 \fi}
17952 \renewcommand\thesubsection   {\thesection\@SepMark\arabic{subsection}}
17953 \renewcommand\thesubsubsection {\thesubsection \@SepMark\arabic{subsubsection}}
17954 \renewcommand\theparagraph   {\thesubsubsection\@SepMark\arabic{paragraph}}
17955 \renewcommand\thesubparagraph {\theparagraph\@SepMark\arabic{subparagraph}}
17956 \def\maketitle{\par
17957   \@topnum\z@ % this prevents figures from falling at the top of page 1
17958   \@setcopyright
17959   \thispagestyle{firstpage}% this sets first page specifications
17960   \uppercase\nonmath\shorttitle
17961   \ifx\@empty\shortauthors \let\shortauthors\shorttitle
17962   \else \andify\shortauthors
17963   \fi
17964   \@maketitle@hook
17965   \begingroup
17966   \@maketitle
17967   \toks@\@xp{\shortauthors}\@temptokena\@xp{\shorttitle}%
17968   \toks4{\def\{\ \ignorespaces}}% defend against questionable usage
17969   \edef\@tempa{%
17970     \@nx\markboth{\the\toks4
17971       \@nx\MakeUppercase{\the\toks@}}{\the\@temptokena}}%
17972   \@tempa
17973   \endgroup
17974   \@c@footnote\z@
17975   \@cleartopmattertags
17976 }

```

## 104 File leqno-xetex-bidi.def

```

17977 \ProvidesFile{leqno-xetex-bidi.def}[2018/01/07 v0.2 bidi adaptations for leqno tag for XeTeX]
17978 \renewcommand\@eqnnum{\hb@xt@.01\p@{}}%
17979     \rlap{\hskip -\displaywidth
17980     {\normalfont\normalcolor\if@RTL\beginR\fi(\theequation)\if@RTL\endR\fi}}

```

## 105 File letter-xetex-bidi.def

```

17981 \ProvidesFile{letter-xetex-bidi.def}[2015/11/14 v0.3 bidi adaptations for standard letter class]
17982 \renewcommand*\@opening[1]{\ifx\@empty\fromaddress
17983   \thispagestyle{firstpage}%
17984   {\if@RTL\raggedright\else\raggedleft\fi\@date\par}%
17985 \else % home address
17986   \thispagestyle{empty}%
17987   {\if@RTL\raggedright\else\raggedleft\fi\if@RTL\begin{tabular}{r@{}}\else\begin{tabular}{l@{}}
17988     \fromaddress \*[2\parskip]%

```





```

17989     \@date \end{tabular}\par}%
17990 \fi
17991 \vspace{2\parskip}%
17992 {\if@RTL\raggedleft\else\raggedright\fi \toname \ \ \toaddress \par}%
17993 \vspace{2\parskip}%
17994 #1\par\nobreak}
17995 \renewcommand\left@footnoterule{%
17996 \kern-\p@
17997 \hrule \@width .4\columnwidth
17998 \kern .6\p@}
17999 \renewcommand\right@footnoterule{%
18000 \kern-\p@
18001 \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
18002 \kern .6\p@}

```

## 106 File `lettrine-xetex-bidi.def`

```

18003 \ProvidesFile{lettrine-xetex-bidi.def}[2024/12/08 v0.9 bidi adaptations for lettrine package]
18004 \RemoveFromHook{begindocument}[lettrine]
18005 \AtBeginDocument[lettrine]{%
18006 \if\DefaultOptionsFile\relax
18007 \else
18008 \InputIfFileExists{\DefaultOptionsFile}%
18009 {}%
18010 {\PackageWarning{lettrine.sty}%
18011 {File \DefaultOptionsFile\space not found}}%
18012 }%
18013 \fi
18014 \let\ifL@RTL\if@RTL
18015 }

```

## 107 File `lineno-xetex-bidi.def`

```

18016 \ProvidesFile{lineno-xetex-bidi.def}[2024/12/07 v0.3 bidi adaptations for lineno package for]
18017 \bidi@patchcmd{\MakeLineNo}{%
18018 \hb@xt@\z@\makeLineNumber}%
18019 }{%
18020 \hboxL to \z@\makeLineNumber}%
18021 }{}{}
18022
18023 \bidi@patchcmd{\makeLineNumberLeft}{\LineNumber}{%
18024 \if@RTL
18025 \hb@xt@\linenumberwidth{\LineNumber\hss}%
18026 \else
18027 \LineNumber
18028 \fi
18029 }{}{}
18030
18031 \bidi@patchcmd{\makeLineNumberRight}{%
18032 \hb@xt@\linenumberwidth{\hss\LineNumber}%
18033 }{%
18034 \if@RTL
18035 \LineNumber
18036 \else

```



```

18037 \hb@xt@\linenumberwidth{\hss\LineNumber}%
18038 \fi
18039 }{}{}
18040
18041 \bidi@AfterPreamble{%
18042 \if@RTLmain
18043 \rightlinenumbers*
18044 \else
18045 \leftlinenumbers*
18046 \fi
18047 \@ifpackagewith{lineno}{left}{%
18048 \leftlinenumbers*
18049 }{}
18050 \@ifpackagewith{lineno}{right}{%
18051 \rightlinenumbers*
18052 }{}
18053 \@ifpackagewith{lineno}{switch}{%
18054 \if@RTLmain
18055 \switchlinenumbers*%
18056 \else
18057 \switchlinenumbers
18058 \fi
18059 }{}
18060 \@ifpackagewith{lineno}{switch*}{%
18061 \if@RTLmain
18062 \switchlinenumbers
18063 \else
18064 \switchlinenumbers*%
18065 \fi
18066 }{}
18067 }
18068

```

## 108 File listings-xetex-bidi.def

```

18069 \ProvidesFile{listings-xetex-bidi.def}[2025/01/03 v1.6 bidi adaptations for listings package]
18070 \lst@Key{captiondirection}{textdirection}{%
18071 \lstKV@SwitchCases{#1}%
18072 {textdirection:\\%
18073 RTL:\chardef\bidi@lst@caption@direction\@ne\\%
18074 LTR:\chardef\bidi@lst@caption@direction\z@%
18075 }{\PackageError{Listings}{direction #1 unknown}\@ehc}}
18076
18077 \lst@Key{captionscript}{textscript}{%
18078 \lstKV@SwitchCases{#1}%
18079 {textscript:\\%
18080 latin:\chardef\bidi@lst@caption@script\@ne\\%
18081 nonlatin:\chardef\bidi@lst@caption@script\z@%
18082 }{\PackageError{Listings}{direction #1 unknown}\@ehc}}
18083
18084 \newcommand*\bidi@lst@ensure@caption@direction[2]{%
18085 \@ifundefined{bidi@lst@caption@direction}{}{%
18086 \ifnum\bidi@lst@caption@direction=\z@%
18087 #1%

```



```

18088 \else%
18089 \ifnum\bidilst@caption@direction=\@ne%
18090 #2%
18091 \fi%
18092 \fi%
18093 }}
18094
18095 \newcommand*{\bidilst@ensure@caption@script}[2]{%
18096 \@ifundefined{bidilst@caption@script}{}{%
18097 \ifnum\bidilst@caption@script=\z@%
18098 #1%
18099 \else%
18100 \ifnum\bidilst@caption@script=\@ne%
18101 #2%
18102 \fi%
18103 \fi%
18104 }}
18105
18106 \long\def\@bidilst@makecaption#1#2{%
18107 \bidilst@ensure@caption@script{\@nonlatintrue}{\@nonlatinfalse}%
18108 \vskip\abovcaptionskip
18109 \bidilst@ensure@caption@direction{\@RTLfalse}{\@RTLtrue}%
18110 \sbox\@tempboxa{%
18111 \bidilst@ensure@caption@direction{\beginL}{\beginR}%
18112 #1: #2%
18113 \bidilst@ensure@caption@direction{\endL}{\endR}%
18114 }%
18115 \ifdim \wd\@tempboxa >\hsize
18116 #1: #2\par
18117 \else
18118 \global \@minipagefalse
18119 \hb@xt@\hsize{\hfil\box\@tempboxa\hfil}%
18120 \fi
18121 \vskip\belowcaptionskip}%
18122 \def\lst@makecaption{\@bidilst@makecaption}
18123 \def\lst@maketitle{\@bidilst@makecaption\lst@title@dropdelim}
18124 \bidilst@AtEndPreamble{%
18125 \bidilst@patchcmd{\lst@MakeCaption}{%
18126 \ifx #1%
18127 \ifx\lst@@caption\@empty\expandafter\lst@HRefStepCounter \else
18128 \expandafter\refstepcounter
18129 \fi {lstlisting}%
18130 }{%
18131 \ifx #1%
18132 \bidilst@ensure@caption@direction{\@RTLfalse}{\@RTLtrue}%
18133 \ifx\lst@@caption\@empty\expandafter\lst@HRefStepCounter \else
18134 \expandafter\refstepcounter
18135 \fi {lstlisting}%
18136 \bidilst@ensure@caption@direction{\@RTLfalse}{\@RTLfalse}%
18137 }{}%
18138 \bidilst@patchcmd{\lst@MakeCaption}{%
18139 \addcontentsline{lol}{lstlisting}%
18140 {\protect\numberline{\thelstlisting}\lst@@caption}%
18141 }{}%

```



```

18142 \begingroup%
18143         \bidi@lst@ensure@caption@direction{\@RTLfalse}{\@RTLtrue}%
18144         \addcontentsline{lol}{lstlisting}%
18145         {\protect\numberline{\thelstlisting}\lst@@caption}%
18146 \endgroup%
18147 }{}{}%
18148 }
18149 \ApplyPatchIfPackageLoaded{caption}{%
18150   \AtBeginCaption{%
18151     \bidi@lst@ensure@caption@script{\@nonlatintrue}{\@nonlatinfalse}%
18152     \bidi@lst@ensure@caption@direction{\@RTLfalse}{\@RTLtrue}%
18153   }
18154   \let@bidi@lst@makecaption\caption@makecaption%
18155   \def\lst@makecaption{\caption@starfalse@bidi@lst@makecaption}%
18156   \def\lst@maketitle{\caption@startrue@bidi@lst@makecaption\@empty}%
18157 }{}%
18158 \AtBeginDocument{%
18159   \@ifundefined{captionlabelfalse}{}{}%
18160   \def\lst@maketitle{\captionlabelfalse@bidi@lst@makecaption\@empty}}%
18161   \@ifundefined{caption@startrue}{}{}%
18162   \def\lst@maketitle{\caption@startrue@bidi@lst@makecaption\@empty}}%
18163 }{}%
18164 }
18165 \AtBeginDocument{
18166   \@ifundefined{thechapter}{\let\lst@ifnumberbychapter\iffalse}{}
18167   \lst@ifnumberbychapter
18168     \gdef\thelstlisting%
18169     {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@lstlisting}
18170   \else
18171     \gdef\thelstlisting{\@arabic\c@lstlisting}
18172   \fi}

```

## 109 File longtable-xetex-bidi.def

```

18173 \ProvidesFile{longtable-xetex-bidi.def}[2025/01/03 v0.7 bidi adaptations for longtable packa
18174 \def\LT@array[#1]#2{%
18175   \refstepcounter{table}\stepcounter{LT@tables}%
18176   \if l#1%
18177     \ifRTLtab\LTleft\fill \Ltright\z@ \else\LTleft\z@ \Ltright\fill\fi
18178   \else\if r#1%
18179     \ifRTLtab\LTleft\z@ \Ltright\fill \else\LTleft\fill \Ltright\z@\fi
18180   \else\if c#1%
18181     \LTleft\fill \Ltright\fill
18182   \fi\fi\fi
18183   \let\LT@mc@col\multicolumn
18184   \let\LT@@tabarray\@tabarray
18185   \let\LT@@hl\hline
18186   \def\@tabarray{%
18187     \let\hline\LT@@hl
18188     \LT@@tabarray}%
18189   \let\\LT@tabularcr\let\@tabularnewline\\
18190   \def\newpage{\noalign{\break}}%
18191   \def\pagebreak{\noalign{\ifnum`}=0\fi\@testopt{\LT@no@pgbk-}4}%
18192   \def\nopagebreak{\noalign{\ifnum`}=0\fi\@testopt\LT@no@pgbk4}%

```



```

18193 \let\hline\LT@hline \let\kill\LT@kill\let\caption\LT@caption
18194 \@tempdima\ht\strutbox
18195 \let\@endpbox\LT@endpbox
18196 \ifx\extrarowheight\@undefined
18197   \let\@acol\@tabacol
18198   \let\@classz\@tabclassz \let\@classiv\@tabclassiv
18199   \def\@startpbox{\vtop\LT@startpbox}%
18200   \let\@@startpbox\@startpbox
18201   \let\@@endpbox\@endpbox
18202   \let\LT@LL@FM@cr\@tabularcr
18203 \else
18204   \advance\@tempdima\extrarowheight
18205   \col@sep\@tabcolsep
18206   \let\@startpbox\LT@startpbox\let\LT@LL@FM@cr\@arraycr
18207 \fi
18208 \setbox\@arstrutbox\hbox{\vrule
18209   \@height \arraystretch \@tempdima
18210   \@depth \arraystretch \dp \strutbox
18211   \@width \z@}%
18212 \let\@sharp#\let\protect\relax
18213 \begingroup
18214 \mkpream{#2}%
18215 \xdef\LT@bchunk{%
18216   \global\advance\c@LT@chunks\@ne
18217   \global\LT@rows\z@\setbox\z@\vbox\bgroup
18218     \LT@setprevdepth
18219     \tabskip\LTleft \noexpand\halign to\hsize\bgroup
18220     \tabskip\z@ \@arstrut \@preamble \tabskip\LTRight \cr}%
18221 \endgroup
18222 \expandafter\LT@nofcols\LT@bchunk&\LT@nofcols
18223 \LT@make@row
18224 \m@th\let\par\@empty
18225 \everycr{}\lineskip\z@\baselineskip\z@
18226 \LT@bchunk}
18227 \def\LT@makecaption#1#2#3{%
18228 \LT@mcol\LT@cols c{\hbox to\z@{\hss\parbox[t]\LTcapwidth{%
18229   \sbox\@tempboxa{\if@RTL\beginR\fi#1{#2: }#3\if@RTL\endR\fi}%
18230   \ifdim\wd\@tempboxa>\hsize
18231     #1{#2: }#3%
18232   \else
18233     \hbox to\hsize{\hfil\box\@tempboxa\hfil}%
18234   \fi
18235   \endgraf\vskip\baselineskip}%
18236 \hss}}
18237 \ApplyPatchCodeToPackage{caption}{%
18238 \renewcommand\LT@makecaption[3]{%
18239   \caption@LT@make{%
18240     \caption@LT@settype\LTcapttype
18241     \caption@LT@setup
18242     \caption@setautoposition{\ifcase\LT@rows t\else b\fi}%
18243     \caption@startrue#1\caption@starfalse
18244     \caption@prepare@stepcounter\LTcapttype
18245     \caption@begin\LTcapttype
18246     \caption@normalsize

```



```

18247         \vskip-\ht\strutbox
18248         \caption@ifdefined\FBifcaptop{%
18249             \let\caption@belowskip\@empty}{}%
18250         \caption@make@above
18251         \caption@@make{#2}{#3}\endgraf
18252         \caption@make@below
18253         \caption@end}}%
18254     }
18255 \def\LT@startpbox#1{%
18256     \bgroup\color@begingroup
18257     \let\@footnotetext\LT@p@ftntext
18258     \let\LTRfootnotetext\LT@p@LTRftntext
18259     \let\RTLfootnotetext\LT@p@RTLftntext
18260     \setlength\hsize{#1}%
18261     \@arrayparboxrestore
18262     \vrule \@height \ht\@arstrutbox \@width \z@}
18263 \def\LT@p@LTRftntext#1{%
18264     \edef\@tempa{\the\LT@p@ftn\noexpand\LTRfootnotetext[\the\c@footnote]}%
18265     \global\LT@p@ftn\expandafter{\@tempa{#1}}}%
18266 \def\LT@p@RTLftntext#1{%
18267     \edef\@tempa{\the\LT@p@ftn\noexpand\RTLfootnotetext[\the\c@footnote]}%
18268     \global\LT@p@ftn\expandafter{\@tempa{#1}}}%
18269
18270
18271 \def\LT@output{%
18272     \ifnum\outputpenalty <-\@Mi
18273         \ifnum\outputpenalty > -\LT@end@pen
18274             \LT@err{floats and marginpars not allowed in a longtable}\@ehc
18275         \else
18276             \setbox\z@\vbox{\unvbox\@cclv}%
18277             \ifdim \ht\LT@lastfoot>\ht\LT@foot
18278                 \dimen@\pagegoal
18279                 \advance\dimen@-\ht\LT@lastfoot
18280                 \ifdim\dimen@<\ht\z@
18281                     \setbox\@cclv\vbox{\unvbox\z@\copy\LT@foot\vss}%
18282                     \@makecol
18283                     \@outputpage
18284                     \setbox\z@\vbox{\box\LT@head}%
18285                     \fi
18286                 \fi
18287                 \global\@colroom\@colht
18288                 \global\vsizel\@colht
18289                 \vbox
18290                 {\if@RTLtab\hbox\bgroup\beginR\vbox\bgroup\fi\unvbox\z@\box\ifvoid\LT@lastfoot\LT@foot}
18291                 \fi
18292             \else
18293                 \setbox\@cclv\vbox{\if@RTLtab\hbox\bgroup\beginR\vbox\bgroup\fi\unvbox\@cclv\copy\LT@foot}
18294                 \@makecol
18295                 \@outputpage
18296                 \global\vsizel\@colroom
18297                 \copy\LT@head\nobreak
18298             \fi}

```



## 110 File `lscapexetex-bidi.def`

```
18299 \ProvidesFile{lscapexetex-bidi.def}[2025/01/03 v0.3 bidi adaptations for lscapex package for
18300 \RequirePackage{graphicx}
18301 \bidi@patchcmd{\LS@rot}{\rotatebox{90}{\box\@outputbox}}{%
18302   \if@RTL
18303     \rotatebox[origin=br]{-90}{\box\@outputbox}%
18304   \else
18305     \rotatebox{90}{\box\@outputbox}%
18306   \fi
18307 }{}{}
18308
18309 \g@addto@macro{\landscape}{%
18310   \if@bidi@csdef{bidi@columnwidth}{%
18311     \bidi@columnwidth\columnwidth
18312   }{}%
18313   \let\bidi@left@footnoterule\left@footnoterule
18314   \let\bidi@right@footnoterule\right@footnoterule
18315   \def\left@footnoterule{%
18316     \if@RTL
18317       \bidi@right@footnoterule
18318     \else
18319       \bidi@left@footnoterule
18320     \fi
18321   }%
18322   \def\right@footnoterule{%
18323     \if@RTL
18324       \bidi@left@footnoterule
18325     \else
18326       \bidi@right@footnoterule
18327     \fi
18328   }%
18329 }
```

## 111 File `mathtoolsexetex-bidi.def`

```
18330 \ProvidesFile{mathtoolsexetex-bidi.def}[2025/01/03 v0.2 bidi adaptations for mathtools packa
18331 \RequirePackage{graphicx}
18332 \MHInternalSyntaxOn
18333 \def\MT_define_tagform:nwnn #1[#2]#3#4{
18334   \@namedef{MT_tagform_#1:n}##1
18335   {\maketag@@@{\if@nonlatin\beginR\fi#3\kern\z@\ignorespaces#2{##1}\unskip\@italiccorr#4}
18336 }
18337 \renewtagform{default}{({})}
18338 \MHInternalSyntaxOff
```

## 112 File `mdframedxetex-bidi.def`

```
18339 \ProvidesFile{mdframedxetex-bidi.def}[2013/09/22 v0.4 bidi adaptations for mdframed package
18340 \newif\if@bidi@mdf@RTL
18341 \def\mdf@lrbox#1{%
18342   \mdf@patchamsthm%patch amsthm
18343   \if@RTL\@bidi@mdf@RTLtrue\fi%
18344   \@RTLfalse%
```



```

18345 \setbox#1\vbox\bgroup%
18346 \color@begingroup%
18347 \if@bidi@mdf@RTL\@RTLtrue\fi%
18348 \mdf@horizontalmargin@equation%
18349 \columnwidth=\hsize%
18350 \textwidth=\hsize%
18351 \let\if@nobreak\iffalse%
18352 \let\if@noskipsec\iffalse%
18353 \let\par\@par%
18354 \let\-\@dischyp%
18355 \let'\@acci\let`\@accii\let=\@acciii%
18356 \parindent\z@ \parskip\z@skip%
18357 \linewidth\hsize%
18358 \@totalleftmargin\z@%
18359 \leftskip\z@skip \rightskip\z@skip \@rightskip\z@skip%
18360 \parfillskip\@flushglue \lineskip\normallineskip%
18361 \baselineskip\normalbaselineskip%
18362 %% \sloppy%
18363 \let\\\@normalcr%
18364 \mdf@par@local%New feature to restore parskip/parindent local in save box
18365 \ifbool{mdf@suppressfirstparskip}{\vspace*{-\parskip}}{}%
18366 \@afterindentfalse%
18367 %\@afterheading%
18368 }
18369 \renewrobustcmd\mdfframedtitleenv[1]{%
18370 \mdf@lrbox{\mdf@frametitlebox}%
18371 \mdf@frametitlealignment%
18372 \leavevmode{\color{\mdf@frametitlefontcolor}%
18373 \normalfont\mdf@frametitlefont{#1}
18374 \ifbool{mdf@ignorelastdescenders}%
18375 {%
18376 \par\strut\par
18377 \unskip\unskip\setbox0=\lastbox
18378 \vspace*{\dimexpr\ht\strutbox-\baselineskip\relax}%
18379 }{}}%
18380 \par\unskip\ifvmode\nointerlineskip\hrule \@height\z@ \@width\hsize\fi%
18381 \endmdf@lrbox\relax%
18382 \mdf@ignorevbadness%
18383 \setbox\mdf@frametitlebox=\vbox{\unvbox\mdf@frametitlebox}%
18384 \mdfframetitleboxwidth=\wd\mdf@frametitlebox\relax%
18385 \mdfframetitleboxheight=\ht\mdf@frametitlebox\relax%
18386 \mdfframetitleboxdepth=\dp\mdf@frametitlebox\relax%
18387 \mdfframetitleboxtotalheight=\dimexpr
18388 \ht\mdf@frametitlebox
18389 +\dp\mdf@frametitlebox%
18390 +\mdf@frametitleaboveskip@length
18391 +\mdf@frametitlebelowskip@length
18392 \relax%
18393 }
18394
18395 \renewrobustcmd*\mdf@footnoteoutput{%
18396 \ifvoid\@mpfootins\else%
18397 \nobreak%
18398 \vskip\mdf@footnotedistance@length%

```





```

18399         \normalcolor%
18400         \bidi@mpfootnoterule%
18401         \unvbox\@mpfootins%
18402     \fi%
18403 }
18404
18405
18406 \renewrobustcmd*\mdf@footnoteinput{%
18407     \def\@mpfn{mpfootnote}%
18408     \def\thempfn{\thempfootnote}%
18409     \c@mpfootnote\z@%
18410     \let\footnotetext\@mpfootnotetext%
18411     \let\@LTRfootnotetext\@mpLTRfootnotetext%
18412     \let\@RTLfootnotetext\@mpRTLfootnotetext%
18413 }

```

### 113 File media9-xetex-bidi.def

```

18414 \ProvidesFile{media9-xetex-bidi.def}[2025/01/03 v0.1 bidi adaptations for media9 package for
18415 \RequirePackage{bidi-media9}

```

### 114 File bidi-media9.sty

```

18416 \ProvidesExplPackage{bidi-media9}{2022/02/18}{0.4}
18417 {bidi fixes for media9 package for the XeTeX engine}
18418
18419 \keys_define:nn{media9/mbtn}{
18420   draft .code:n = {},
18421   final .code:n = {},
18422
18423   tooltip .tl_gset_x:N = \g_mix_tooltip_tl,
18424   tooltip .value_required:n = {true},
18425
18426   overface .code:n = {
18427     \sbox\l_mix_poster_box{
18428       \bool_if:NTF\g_pbs_lscape_bool{\rotatebox{90}{#1}}{\if@RTL\beginR\fi#1\if@RTL\endR\fi}
18429     \mix_pdfxform:n{\l_mix_poster_box}
18430     \tl_gset:Nx\g_mix_overbtn_tl{\mix_pdflastxform:}
18431   },
18432   overface .value_required:n = {true},
18433
18434   downface .code:n = {
18435     \sbox\l_mix_poster_box{
18436       \bool_if:NTF\g_pbs_lscape_bool{\rotatebox{90}{#1}}{\if@RTL\beginR\fi#1\if@RTL\endR\fi}
18437     \mix_pdfxform:n{\l_mix_poster_box}
18438     \tl_gset:Nx\g_mix_downbtn_tl{\mix_pdflastxform:}
18439   },
18440   downface .value_required:n = {true},
18441
18442   3Dgotoview .code:n = {
18443     \tl_set:Nx\l_tmpa_tl{#1} %extract ref
18444     \regex_replace_once:nnN{([~:]+)??.*}{\1}\l_tmpa_tl
18445     \tl_trim_spaces:N\l_tmpa_tl
18446     \tl_if_exist:cTF{ann@\l_tmpa_tl}{

```



```

18447 \str_if_eq:eeF{\tl_use:c{ann@\l_tmpa_tl}}{draft}{
18448 \tl_set:Nx\l_tmpb_tl{#1} %extract idx
18449 \regex_replace_once:nnN{[^\:]+?}\l_tmpb_tl
18450 \tl_trim_spaces:N\l_tmpb_tl
18451 \tl_if_blank:VF\l_tmpb_tl{
18452 \regex_match:nVTF{^[DFLNP]$}\l_tmpb_tl{
18453 \tl_set:Nx\l_mix_vidx_tl{/}\l_tmpb_tl
18454 }{
18455 \regex_match:nVTF{^\d+$}\l_tmpb_tl{
18456 \tl_set:Nx\l_mix_vidx_tl{~}\l_tmpb_tl
18457 }{
18458 \regex_replace_once:nnN{^\(s*\)}\l_tmpb_tl
18459 \regex_replace_once:nnN{(s*)$}\l_tmpb_tl
18460 \tl_set:Nx\l_mix_vidx_tl{~}\l_tmpb_tl)
18461 }
18462 }
18463 }
18464 \mix_pdfobj:nnn[]{}{dict}{
18465 /S/JavaScript/JS~(
18466 if(typeof(annotRM)=='undefined'){annotRM=new-Array();}
18467 if(typeof(annotRM['\l_tmpa_tl'])=='undefined'){
18468 annotRM['\l_tmpa_tl']=
18469 this.getAnnotRichMedia(\tl_use:c{page@\l_tmpa_tl},'\l_tmpa_tl');
18470 }
18471 annotRM['\l_tmpa_tl'].activated=true;
18472 )
18473 \tl_if_blank:VF\l_tmpb_tl{
18474 /Next~<<
18475 /S/GoTo3DView
18476 /TA~\tl_use:c{ann@\l_tmpa_tl}
18477 /V\l_mix_vidx_tl
18478 >>
18479 }
18480 }
18481 \tl_gput_right:Nx\g_mix_btnactions_tl{~\mix_pdflastobj:}
18482 }
18483 }{
18484 \msg_warning:nnx{media9}{undefined-reference}{\l_tmpa_tl}
18485 \cs_if_exist:NF\g_mix_refundefwarned_tl{
18486 \tl_new:N\g_mix_refundefwarned_tl
18487 \AtEndDocument{\msg_warning:nn{media9}{undefined-references}}
18488 }
18489 }
18490 },
18491 3Dgotoview .value_required:n = {true},
18492
18493 mediacommand .code:n = {
18494 \tl_set:Nx\l_tmpa_tl{#1}
18495 \regex_replace_once:nnN{([^\:]+)?\*}\l_tmpa_tl %extract ref
18496 \tl_trim_spaces:N\l_tmpa_tl
18497 \tl_if_exist:cTF{ann@\l_tmpa_tl}{
18498 \str_if_eq:eeF{\tl_use:c{ann@\l_tmpa_tl}}{draft}{
18499 \tl_set:Nx\l_tmpb_tl{#1}
18500 \regex_replace_once:nnN{[^\:]+?}\l_tmpb_tl

```



```

18501 \tl_trim_spaces:N\l_tmpb_tl
18502 \regex_replace_all:nnN{^\{|\}\$}{}\l_tmpb_tl
18503 \tl_set:Nx\l_mix_cmd_tl{
18504   \exp_after:wN\mix_separate_cmd_from_actn:w\l_tmpb_tl[]\q_stop}
18505 \tl_trim_spaces:N\l_mix_cmd_tl
18506 \tl_set:Nx\l_mix_arg_tl{
18507   \exp_after:wN\mix_separate_arg_from_actn:w\l_tmpb_tl[]\q_stop}
18508 \tl_trim_spaces:N\l_mix_arg_tl
18509 \mix_pdfobj:nnn{}{dict}{
18510   /S/JavaScript/JS~(
18511     if(typeof(annotRM)=='undefined'){annotRM=new~Array();}
18512     if(typeof(annotRM['\l_tmpa_tl'])=='undefined'){
18513       annotRM['\l_tmpa_tl']=
18514         this.getAnnotRichMedia(\tl_use:c{page@\l_tmpa_tl},'\l_tmpa_tl');
18515     }
18516     annotRM['\l_tmpa_tl'].activated=true;
18517   )
18518   \tl_if_blank:VF\l_mix_cmd_tl{
18519     /Next~<<
18520     /S/RichMediaExecute
18521     /TA~\tl_use:c{ann@\l_tmpa_tl}
18522     /TI~\tl_use:c{main@\l_tmpa_tl}
18523     /CMD~<<
18524     /C~(\l_mix_cmd_tl)
18525     \tl_if_blank:VF\l_mix_arg_tl{
18526       /A~[\l_mix_arg_tl]
18527     }
18528     >>
18529     >>
18530   }
18531 }
18532 \tl_gput_right:Nx\g_mix_btnactions_tl{~\mix_pdflastobj:}
18533 }
18534 }{
18535   \msg_warning:nnx{media9}{undefined~reference}{\l_tmpa_tl}
18536   \cs_if_exist:NF\g_mix_refundefwarned_tl{
18537     \tl_new:N\g_mix_refundefwarned_tl
18538     \AtEndDocument{\msg_warning:nn{media9}{undefined~references}}
18539   }
18540 }
18541 },
18542 mediacommand .value_required:n = {true},
18543
18544 jsaction .code:n = {
18545   \tl_set:Nx\l_tmpa_tl{#1}
18546   \regex_match:nVTF{^[^{}:]+.*$}\l_tmpa_tl{
18547     \regex_replace_once:nnN{([^\:]+)??.*}{\1}\l_tmpa_tl %extract ref
18548     \tl_trim_spaces:N\l_tmpa_tl
18549   }{\tl_clear:N\l_tmpa_tl}
18550   \tl_set:Nx\l_tmpb_tl{#1}
18551   \tl_if_blank:VF\l_tmpa_tl{
18552     \tl_if_exist:cF{ann@\l_tmpa_tl}{
18553       \msg_warning:nnx{media9}{undefined~reference}{\l_tmpa_tl}
18554       \cs_if_exist:NF\g_mix_refundefwarned_tl{

```



```

18555         \tl_new:N\g_mix_refundefwarned_tl
18556         \AtEndDocument{\msg_warning:nn{media9}{undefined-references}}
18557     }
18558 }
18559 \regex_replace_once:nnN{[\^:]+\\.:}{}\l_tmpb_tl
18560 }
18561 \tl_set:Nx\l_tmpb_tl{\exp_after:wN\use:n\l_tmpb_tl}
18562 \tl_trim_spaces:N\l_tmpb_tl
18563 \tl_if_blank:VF\l_tmpb_tl{
18564 \mix_pdfobj:nnn{}{dict}{
18565   /S/JavaScript/JS~(
18566     try{\l_tmpb_tl}catch(e){console.show();console.println(e)}}}
18567 \bool_lazy_and:nnT{
18568   \tl_if_exist_p:c{ann@\l_tmpa_tl}
18569 }{
18570   !\str_if_eq_p:ee{\tl_use:c{ann@\l_tmpa_tl}}{draft}
18571 }{
18572   \mix_pdfobj:nnn{}{dict}{
18573     /S/JavaScript/JS~(
18574       if(typeof(annotRM)=='undefined'){annotRM=new~Array();}
18575       if(typeof(annotRM['\l_tmpa_tl'])=='undefined'){
18576         annotRM['\l_tmpa_tl']=
18577           this.getAnnotRichMedia(\tl_use:c{page@\l_tmpa_tl},'\l_tmpa_tl');
18578       }
18579       annotRM['\l_tmpa_tl'].activated=true;
18580     )
18581     \tl_if_blank:VF\l_tmpb_tl{/Next~\mix_pdflastobj:}
18582   }
18583 }
18584 \bool_if:nT{
18585   \bool_lazy_and_p:nn{
18586     \tl_if_exist_p:c{ann@\l_tmpa_tl}
18587   }{
18588     !\str_if_eq_p:ee{\tl_use:c{ann@\l_tmpa_tl}}{draft}
18589   }
18590   || !\tl_if_blank_p:V\l_tmpb_tl
18591 }{
18592   \tl_gput_right:Nx\g_mix_btnactions_tl{~\mix_pdflastobj:}
18593 }
18594 },
18595 jsaction .value_required:n = {true},
18596
18597 unknown .code:n = {
18598   \msg_error:nnx{media9}{unknown~option}{\l_keys_key_tl}
18599 }
18600 }
18601
18602 \RenewDocumentCommand\includemedia{0{}mm}{%#1 options, #2 text/image #3 media file
18603   \mix_uriend:
18604   \group_begin:
18605   \mix_beginLTR:
18606   \mode_leave_vertical:
18607   %empty stream as appearance dummy
18608   \cs_if_exist:NF\g_mix_appearance_tl{

```



```

18609     \hbox_set:Nn\l_mix_poster_box{\phantom{\rule{1pt}{1pt}}}
18610     \mix_pdfxform:n{\l_mix_poster_box}
18611     \tl_gset:Nx\g_mix_appearance_tl{\mix_pdflastxform:}
18612   }
18613   \mix_reset:
18614   \mix_uribegin: %treat URI characters correctly
18615   \keys_set:nn{media9/user}{#1}
18616   \mix_uriend:
18617   \tl_greplace_all:Nnn\g_mix_flashvars_tl{~&}{&}
18618   \tl_greplace_all:Nnn\g_mix_flashvars_tl{&~}{&}
18619   \tl_greplace_all:Nnn\g_mix_flashvars_tl{~={}}{=}
18620   \tl_greplace_all:Nnn\g_mix_flashvars_tl{=~}{=}
18621   \tl_gtrim_spaces:N\g_mix_flashvars_tl
18622
18623   \cs_if_exist:NT\Ginput@path{\cs_set_eq:NN\input@path\Ginput@path}
18624
18625   %\hbox_set:Nn\l_mix_poster_box{\group_begin:#2\group_end:}
18626   %\hbox_set:Nn\l_mix_poster_box{#2}
18627   \sbox\l_mix_poster_box{\if@RTL\beginR\fi#2\if@RTL\endR\fi}
18628   \mix_scale:n{\l_mix_poster_box}
18629   \bool_if:nTF{
18630     \dim_compare_p:n{\g_mix_tt_tl=\c_zero_dim}||
18631     \dim_compare_p:n{\g_mix_wd_tl=\c_zero_dim}
18632   }{
18633     \tl_gset:Nn\g_mix_usrpbtn_tl{none}
18634   }
18635   \bool_if:NTF\g_mix_usrdraft_bool{
18636     \tl_if_empty:NF\g_mix_usrlabel_tl{
18637       \mix_keytoaux_now:nn{ann@\g_mix_usrlabel_tl}{draft}
18638     }
18639     \tl_if_blank:oTF{#2}{
18640       \mix_uribegin: %treat URI characters correctly
18641       \mix_draftbox:n{\tl_to_str:n{#3}}
18642       \mix_uriend:
18643     }{
18644       \hbox_to_wd:nn{\g_mix_wd_tl}{
18645         \vrule-width~\c_zero_dim~height~\g_mix_ht_tl~depth~\g_mix_dp_tl
18646         \box_use:N\l_mix_poster_box\hss
18647       }
18648     }
18649   }{
18650     \bool_if:nF{\str_if_eq_p:Vn\g_mix_usrpbtn_tl{none}}{
18651       %attach script that switches off play button overlay upon activation
18652       \mix_pdfobj:nnn{}{stream}{
18653         }{
18654           var~ocgs=host.getOCGs(host.pageNum);
18655           for(var~i=0;i<ocgs.length;i++){
18656             if(ocgs[i].name=='MediaPlayerButton\int_use:N\g_mix_rmcnt_int'){
18657               ocgs[i].state=false;
18658             }
18659           }
18660         }
18661       }
18662       \mix_pdfobj:nnn{}{dict}{

```



```

18663     /Type/Filespec/EF~<</F~\mix_pdflastobj:>>/F~(btnoff)%/UF~(btnoff)
18664   }
18665   \tl_gset:Nx\g_mix_assets_tl{(btnoff)~\mix_pdflastobj:}
18666   \tl_set:Nx\l_mix_scripts_tl{~\mix_pdflastobj:~}
18667   %enforce plain playbutton overlay for XeTeX
18668   \sys_if_engine_xetex:T{\tl_gset:Nn\g_mix_usrpbtn_tl{plain}}
18669 }
18670 %embed main asset
18671 \mix_uribegin:
18672 \mix_embedasset:n{#3}
18673 \bool_if:nTF{
18674   \str_if_eq_p:Vn\l_mix_ext_tl{prc}||\str_if_eq_p:Vn\l_mix_ext_tl{u3d}
18675 }{
18676   \bool_gset_true:N\g_mix_iiid_bool
18677   \tl_gset:Nn\g_mix_mainassetsub_tl{3D}
18678 }{
18679   \str_case_e:nnF{\l_mix_base_tl}{
18680     {APlayer}{\tl_gset:Nn\g_mix_mainassetsub_tl{Sound}}
18681     {AudioPlayer}{\tl_gset:Nn\g_mix_mainassetsub_tl{Sound}}
18682     {VPlayer}{\tl_gset:Nn\g_mix_mainassetsub_tl{Video}}
18683     {VideoPlayer}{\tl_gset:Nn\g_mix_mainassetsub_tl{Video}}
18684     {StrobeMediaPlayback}{\tl_gset:Nn\g_mix_mainassetsub_tl{Video}}
18685   }{\tl_gset:Nn\g_mix_mainassetsub_tl{Flash}}
18686 }
18687 \tl_gset:Nx\g_mix_mainasset_tl{~\g_mix_lastasset_tl}
18688 \mix_uriend:
18689 %secondary assets (added by addresource)
18690 \seq_map_function:NN\g_mix_res_seq\mix_embedasset:n
18691 \seq_map_inline:Nn\g_mix_script_seq{
18692   \mix_embedasset:n{##1}
18693   \tl_put_right:Nx\l_mix_scripts_tl{~\g_mix_lastasset_tl}
18694 }
18695 %attach 3D calculation script
18696 \bool_if:nT{\g_mix_iiid_bool && \g_mix_iiidcalc_bool}{
18697   \mix_embedasset:n{3Dmenu.js}
18698   \tl_put_left:Nx\l_mix_scripts_tl{\g_mix_lastasset_tl~}
18699 }
18700 %create 3D views from file (option 3Dviews)
18701 \bool_if:nT{\g_mix_iiid_bool && !(\tl_if_blank_p:V\g_mix_vfile_tl)}{
18702   \tl_set:Nn\l_mix_level_tl{-1}
18703   \int_zero:N\l_mix_viewcnt_int
18704   \int_zero:N\l_mix_lineno_int
18705
18706   \ior_open:Nn\l_mix_vfile_stream{\g_mix_vfile_tl}
18707   \ior_map_inline:Nn\l_mix_vfile_stream{
18708     \int_incr:N\l_mix_lineno_int
18709     \keys_set:nn{media9/views}{##1} %process input line
18710   }
18711   \ior_close:N\l_mix_vfile_stream
18712 }
18713 \bool_if:nT{ %create default 3D view if required
18714   \g_mix_iiid_bool &&
18715   (\g_mix_opt_iiidview_bool || \tl_if_blank_p:V\l_mix_iiidviewarray_tl)
18716 }{

```



```

18717 \tl_set_eq:NN\l_mix_bg_tl\g_mix_opt_bg_tl
18718 \tl_set_eq:NN\l_mix_ls_tl\g_mix_opt_ls_tl
18719 \tl_set_eq:NN\l_mix_rm_tl\g_mix_opt_rm_tl
18720 \tl_set_eq:NN\l_mix_psob_tl\g_mix_opt_psob_tl
18721 \tl_set_eq:NN\l_mix_coo_tl\g_mix_opt_coo_tl
18722 \tl_set_eq:NN\l_mix_ctoc_tl\g_mix_opt_ctoc_tl
18723 \tl_set_eq:NN\l_mix_ciiw_tl\g_mix_opt_ciiw_tl
18724
18725 \fp_set_eq:NN\l_mix_roo_fp\g_mix_opt_roo_fp
18726 \fp_set_eq:NN\l_mix_aac_fp\g_mix_opt_aac_fp
18727 \fp_set_eq:NN\l_mix_oscale_fp\g_mix_opt_oscale_fp
18728 \fp_set_eq:NN\l_mix_roll_fp\g_mix_opt_roll_fp
18729
18730 \bool_set_eq:NN\l_mix_ciiw_bool\g_mix_opt_ciiw_bool
18731 \bool_set_eq:NN\l_mix_iiidortho_bool\g_mix_opt_iiidortho_bool
18732 \tl_clear:N\l_mix_naarray_tl
18733
18734 \bool_if:NF\l_mix_ciiw_bool{
18735   \tl_set:Nx\l_mix_args_tl{\l_mix_coo_tl\space\l_mix_ctoc_tl\space}
18736   \exp_after:wN\mix_calc_ciiw:w\l_mix_args_tl\q_stop
18737 }
18738
18739 \tl_clear:N\l_mix_naarray_tl
18740 \tl_clear:N\l_mix_saarray_tl
18741 \tl_set_eq:NN\l_mix_nr_tl\g_mix_nrdflt_tl
18742
18743 \mix_view:n{Default}
18744 \tl_set:Nx\l_mix_dfltview_tl{\mix_pdflastobj:}
18745
18746 }
18747 \mix_pdfobj:nnn{}{dict}{
18748   /Type/RichMediaInstance
18749   /Subtype/\g_mix_mainassetsub_tl
18750   /Asset~\g_mix_mainasset_tl
18751   \bool_if:NF\g_mix_iiid_bool{
18752     /Params~<<
18753     /Binding\str_if_eq:VnTF\g_mix_transp_tl{true}{
18754       /Foreground
18755     }{
18756       /Background
18757     }
18758     \tl_if_blank:VF\g_mix_flashvars_tl{
18759       /FlashVars~(\g_mix_flashvars_tl)
18760     }
18761     >>
18762   }
18763 }
18764 \tl_if_empty:NF\g_mix_usrlabel_tl{
18765   \mix_keytoaux_now:nn{main@\g_mix_usrlabel_tl}{\mix_pdflastobj:}
18766 }
18767 \mix_pdfobj:nnn{}{dict}{
18768   /Type/RichMediaConfiguration
18769   /Subtype/\g_mix_mainassetsub_tl
18770   /Instances~[\mix_pdflastobj:]

```



```

18771 }
18772 \mix_pdfobj:nnn{}{dict}{
18773   /Type/RichMediaContent
18774   /Assets~<</Names~[\g_mix_assets_tl]>>
18775   /Configurations~[\mix_pdflastobj:]
18776   \bool_if:nT{
18777     \g_mix_iiid_bool && !(\tl_if_empty_p:V\l_mix_iiidviewarray_tl)
18778   }{
18779     /Views~[\l_mix_iiidviewarray_tl]
18780   }
18781 }
18782 \tl_set:Nx\l_mix_content_tl{\mix_pdflastobj:}
18783 \bool_if:nT{
18784   \g_mix_iiid_bool && \str_if_eq_p:Vn\g_mix_playtpe_tl{Oscillating}
18785 }{
18786   \tl_gset:Nx\g_mix_playcnt_tl{\int_eval:n{\g_mix_playcnt_tl*2}}
18787 }
18788 %determine floating window size
18789 \bool_if:NT\g_mix_opt_windowed_bool{
18790   \exp_after:wN\mix_parse_winsizearg:w\g_mix_winsize_tl\q_stop
18791 }
18792 \mix_pdfobj:nnn{}{dict}{
18793   /Activation~<<
18794   /Condition\g_mix_act_tl
18795   \bool_if:nT{
18796     \g_mix_iiid_bool &&
18797     !(\str_if_eq_p:Vn\g_mix_playtpe_tl{None})
18798   }{ %seems to work only with 3D content
18799     /Animation~<<
18800     /Subtype/\g_mix_playtpe_tl
18801     /PlayCount~\g_mix_playcnt_tl
18802     /Speed~\g_mix_playspd_tl
18803     >>
18804   }
18805   \bool_if:nT{
18806     \g_mix_iiid_bool && (
18807     \g_mix_opt_iiidview_bool || \tl_if_blank_p:V\l_mix_iiidviewarray_tl
18808     )
18809   }{/View~\l_mix_dfltview_tl}
18810   /Presentation~<<
18811   /Transparent~\g_mix_transp_tl
18812   \bool_if:NTF\g_mix_opt_windowed_bool{
18813     /Style/Windowed
18814   }/Window~<<
18815     /Width~<</Default~\tl_mix_fltd>>
18816     /Height~<</Default~\tl_mix_flht>>
18817     /Position~<<
18818     /HOffset~0/VOffset~0
18819     \str_case_e:nnF{\g_mix_winpos_tl}{
18820       {tl}{/VAlign/Near/HAlign/Near}
18821       {cl}{/VAlign/Center/HAlign/Near}
18822       {bl}{/VAlign/Far/HAlign/Near}
18823       {bc}{/VAlign/Far/HAlign/Center}
18824       {br}{/VAlign/Far/HAlign/Far}

```





```

18825         {cr}{/VAlign/Center/HAlign/Far}
18826         {tr}{/VAlign/Near/HAlign/Far}
18827         {tc}{/VAlign/Near/HAlign/Center}
18828     }{/HAlign/Center/VAlign/Center}
18829     >>
18830     >>
18831     }{
18832     /Style/Embedded
18833     }
18834     \bool_if:NTF\g_mix_iiid_bool{
18835     /Toolbar~\g_mix_tools_tl
18836     /NavigationPane~\g_mix_nav_tl
18837     }{
18838     /PassContextClick~\g_mix_contextclick_tl
18839     }
18840     >>
18841     \tl_if_blank:VF\l_mix_scripts_tl{/Scripts~[\l_mix_scripts_tl]}
18842     >>
18843     /Deactivation~<</Condition\g_mix_deact_tl>>
18844     }
18845     \tl_set:Nx\l_mix_settings_tl{\mix_pdflastobj:}
18846     \tl_if_empty:NF\g_mix_usrlabel_tl{
18847     \tl_gset_eq:NN\g_mix_label_tl\g_mix_usrlabel_tl
18848     }
18849     % #1:width, #2:height, #3:depth, #4:content (key-value)
18850     \mix_pdfannot:nnnn{\g_mix_wd_tl}{\g_mix_ht_tl}{\g_mix_dp_tl}{
18851     /Subtype/RichMedia
18852     /F~4
18853     /BS~<</W~0/S/S>>
18854     /Contents~(media~embedded~by~media9~[\g_mix_version_tl~(\g_mix_date_tl)])
18855     /NM~(\g_mix_label_tl)
18856     /AP~<</N~\g_mix_appearance_tl>>
18857     /RichMediaSettings~\l_mix_settings_tl
18858     /RichMediaContent~\l_mix_content_tl
18859     }
18860     \tl_if_empty:NF\g_mix_usrlabel_tl{
18861     \mix_keytoaux_now:nn{ann@\g_mix_usrlabel_tl}{\mix_pdflastann:}
18862     \mix_keytoaux_shipout:nn{page@\g_mix_usrlabel_tl}{
18863     \noexpand\the\g@mix@page@int}
18864     }
18865     \mix_pdfobj:nnn{}{dict}{
18866     /S/JavaScript/JS~(
18867     try{
18868     if(typeof(annotRM)=='undefined'){annotRM=new~Array();}
18869     if(typeof(annotRM['\g_mix_label_tl'])=='undefined'){
18870     annotRM['\g_mix_label_tl']=
18871     this.getAnnotRichMedia(this.pageNum,'\g_mix_label_tl');
18872     }
18873     \str_if_eq:eeF{\g_mix_usrpbtn_tl}{none}{
18874     if(typeof(ocgBtn\int_use:N\g_mix_rmcnt_int)=='undefined'){
18875     var~ocgs=this.getOCGs(this.pageNum);
18876     for(var~i=0;i<ocgs.length;i++){
18877     if(ocgs[i].name=='MediaPlayButton\int_use:N\g_mix_rmcnt_int'){
18878     var~ocgBtn\int_use:N\g_mix_rmcnt_int=ocgs[i];

```



```

18879         }
18880     }
18881 }
18882 if(
18883     !annotRM['\g_mix_label_tl'].activated&&(
18884     app.viewerType=='Reader' ||
18885     app.viewerType=='Exchange' ||
18886     app.viewerType=='Exchange-Pro'
18887     )&&app.viewerVersion>=9
18888 ){
18889     ocgBtn\int_use:N\g_mix_rmcnt_int.state=true;
18890 }
18891 }
18892 }catch(e){}
18893 this.dirty=false;
18894 )
18895 }
18896 \mix_pdfannot:nnnn{Opt}{Opt}{Opt}{
18897     /Subtype/Widget
18898     /FT/Btn/Ff~65537/F~2
18899     /BS~<</W~0>>
18900     /T~(fd@\g_mix_label_tl)
18901     /AA~<</PO~\mix_pdflastobj:~/PV~\mix_pdflastobj:>>
18902 }
18903 \mix_appendtofields:n{\mix_pdflastann:}
18904 \hbox_overlap_right:n{\box_use:N\l_mix_poster_box}
18905 \str_if_eq:eeTF{\g_mix_usrpbtn_tl}{none}{
18906     \hbox_to_wd:nn{\g_mix_wd_tl}{
18907         \vrule~width~\c_zero_dim~height~\g_mix_ht_tl~depth~\g_mix_dp_tl\hss
18908     }
18909 }{%insert play button overlay
18910     \mix_insert_btnocg: %create OCG
18911     \cs_gset_eq:Nc\mix_pbtn:NN{g@mix@pbtn@\g_mix_usrpbtn_tl @tl}
18912     \group_begin:
18913     \cs_if_exist:NT\textdir{\textdir TLT}
18914     \sbox\l_mix_pbtn_box{\mix_pbtn:NN\g_mix_wd_tl\g_mix_tt_tl}
18915     \box_move_down:nn{\g_mix_dp_tl}{
18916         \hbox_to_wd:nn{\g_mix_wd_tl}{
18917             \vbox_to_ht:nn{\g_mix_tt_tl}{
18918                 \vss
18919                 \ocgbase_oc_bdc:n{\g_mix_btnocg_tl}
18920                 \box_use:N\l_mix_pbtn_box
18921                 \ocgbase_oc_emc:
18922             }
18923         }
18924     }
18925     \group_end:
18926 }
18927 \int_gincr:N\g_mix_rmcnt_int
18928 }
18929 \mix_endLTR:
18930 \group_end:
18931 }
18932 \tl_set_eq:NN\l_mix_includemedia_tl\includemedia

```



```

18933 \tl_set:Nn\includemedia{\mix_uribegin:\l_mix_includemedia_tl}
18934
18935 \RenewDocumentCommand\mediabutton{0{m}}{#1 options, #2 normal button text
18936   \mix_uriend:
18937   \group_begin:
18938   \mix_beginLTR:
18939   \mode_leave_vertical:
18940   %reset various variables
18941   \tl_gclear:N\g_mix_overbtn_tl
18942   \tl_gclear:N\g_mix_downbtn_tl
18943   \tl_gclear:N\g_mix_btnactions_tl
18944   \tl_gclear:N\g_mix_tooltip_tl
18945   %process options
18946   \bool_gset_eq:NN\g_mix_btndraft_bool\g_mix_pkgdraft_bool
18947   \mix_uribegin: %treat URI characters correctly
18948   \keys_set:nn{media9/mbtdraft}{#1} %detect draft/final on first pass
18949   \bool_if:NF\g_mix_btndraft_bool{\keys_set:nn{media9/mbtn}{#1}}
18950   \mix_uriend:
18951   %normal button appearance
18952   %\hbox_set:Nn\l_mix_poster_box{#2}
18953   \sbox\l_mix_poster_box{\if@RTL\beginR\fi#2\if@RTL\endR\fi}
18954   \tl_set:Nx\width {\dim_use:N\box_wd:N\l_mix_poster_box}
18955   \tl_set:Nx\height {\dim_use:N\box_ht:N\l_mix_poster_box}
18956   \tl_set:Nx\depth {\dim_use:N\box_dp:N\l_mix_poster_box}
18957   \bool_if:NTF\g_mix_btndraft_bool{\box_use:N\l_mix_poster_box}{
18958     \sbox\l_mix_poster_box{\bool_if:NTF\g_pbs_lscape_bool{\rotatebox{90}{
18959       \box_use:N\l_mix_poster_box}}{\box_use:N\l_mix_poster_box}}
18960     \mix_pdfxform:n{\l_mix_poster_box}
18961     \tl_set:Nx\g_mix_normalbtn_tl{\mix_pdflastxform:}
18962     %insert widget annotation
18963     \mix_pdfannot:nnnn{\width}{\height}{\depth}{
18964       /Subtype/Widget
18965       /T~(mbtn@\int_use:N\g_mix_mbtncnt_int)
18966       \tl_if_empty:NF\g_mix_tooltip_tl{/TU~(\g_mix_tooltip_tl)}
18967       /FT/Btn/Ff~65536
18968       \tl_if_empty:NTF\g_mix_downbtn_tl{/H/I}{/H/P}
18969       /AP~<<
18970       /N~\g_mix_normalbtn_tl
18971       \tl_if_empty:NF\g_mix_overbtn_tl{/R~\g_mix_overbtn_tl}
18972       \tl_if_empty:NF\g_mix_downbtn_tl{/D~\g_mix_downbtn_tl}
18973       >>
18974       /MK~<<
18975       /TP~1~/IF~<</S/A/FB~true/A~[0.0~0.0]>>
18976       /I~\g_mix_normalbtn_tl
18977       \tl_if_empty:NF\g_mix_overbtn_tl{/RI~\g_mix_overbtn_tl}
18978       \tl_if_empty:NF\g_mix_downbtn_tl{/IX~\g_mix_downbtn_tl}
18979       >>
18980       /A~<<
18981       /S/JavaScript/JS~(app.focusRect=false;)
18982       %sequence of actions to perform
18983       \tl_if_empty:NF\g_mix_btnactions_tl{/Next~[\g_mix_btnactions_tl]}
18984       >>
18985     }
18986     \mix_appendtofields:n{\mix_pdflastann:}

```



```

18987 \hbox_to_wd:nn{\width}{
18988 \vrule~width~\c_zero_dim~height~\height~depth~\depth\hss
18989 }
18990 \int_gincr:N\g_mix_mbtncnt_int
18991 }
18992 \mix_endLTR:
18993 \group_end:
18994 }
18995 \tl_set_eq:NN\l_mix_mediabutton_tl\mediabutton
18996 \tl_set:Nn\mediabutton{\mix_uribegin:\l_mix_mediabutton_tl}
18997

```

## 115 File memoir-xetex-bidi.def

```

18998 \ProvidesFile{memoir-xetex-bidi.def}[2025/01/03 v0.7 bidi adaptations for memoir class for Xe
18999 \renewcommand{\keepthetitle}{%
19000 \@bsmtitleempty
19001 \global\let\thanks\relax
19002 \global\let\LTRthanks\relax
19003 \global\let\RTLthanks\relax
19004 \global\let\and\relax
19005 \global\let\andnext\relax
19006 \global\let\@thanks\@empty
19007 \global\let\@title\@empty
19008 \global\let\@author\@empty
19009 \global\let\@date\@empty}
19010 \renewcommand{\maketitle}{\par
19011 \begingroup
19012 \@bsmarkseries
19013 \def\@makefnmark{\@textsuperscript{%
19014 \normalfont\@bsthanksheadpre \tamark \@bsthanksheadpost}}%
19015 \long\def\@makefntext##1{\makethanksmark ##1}
19016 \if@twocolumn
19017 \ifnum \col@number=\@ne
19018 \@maketitle
19019 \else
19020 \twocolumn[\@maketitle]%
19021 \fi
19022 \else
19023 \ifdim\pagetotal>\z@
19024 \newpage
19025 \fi
19026 \global\@topnum\z@
19027 \@maketitle
19028 \fi
19029 \thispagestyle{title}\@thanks
19030 \endgroup
19031 \@bscontmark % \setcounter{footnote}{0}%
19032 }
19033 \renewcommand*{\memRTLleftskip}{\if@RTL\rightskip\else\leftskip\fi}
19034 \renewcommand*{\memRTLrightskip}{\if@RTL\leftskip\else\rightskip\fi}
19035 \renewcommand*{\memRTLvleftskip}{\if@RTL\vrightskip\else\vleftskip\fi}
19036 \renewcommand*{\memRTLvrightskip}{\if@RTL\vleftskip\else\vrightskip\fi}
19037 \renewcommand*{\memRTLraggedright}{\if@RTL\raggedleft\else\raggedright\fi}

```



```

19038 \renewcommand*{\memRTLraggedleft}{\ifRTL\raggedright\else\raggedleft\fi}
19039 \renewcommand*{\thesection}{\thechapter\@SepMark\@arabic\c@section}
19040 \renewcommand*{\thesubsection}{%
19041     \thesection\@SepMark\@arabic\c@subsection}
19042 \renewcommand*{\thesubsubsection}{%
19043     \thesubsection\@SepMark\@arabic\c@subsubsection}
19044 \renewcommand*{\theparagraph}{%
19045     \thesubsubsection\@SepMark\@arabic\c@paragraph}
19046 \renewcommand*{\thesubparagraph}{%
19047     \theparagraph\@SepMark\@arabic\c@subparagraph}
19048 \renewcommand{\setthesection}{\thechapter\@SepMark\Alph{section}}
19049 \renewcommand{\theequation}{%
19050     \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@equation}
19051 \renewcommand{\thefigure}{\thechapter\@SepMark\@arabic\c@figure}
19052 \renewcommand{\thetable}{\thechapter\@SepMark\@arabic\c@table}
19053 \ifartopt
19054   \chapterstyle{article}
19055   \counterwithout{figure}{chapter}
19056   \counterwithout{table}{chapter}
19057   \counterwithout{footnote}{chapter}
19058   \counterwithout{equation}{chapter}
19059   \renewcommand{\chaptername}{}
19060   \renewcommand{\maketitlehookb}{%
19061     \vskip -1.5\topsep\vskip -1.5\partopsep}
19062   \renewcommand{\maketitlehookc}{%
19063     \vskip -1.5\topsep\vskip -1.5\partopsep}
19064 \fi
19065 \long\def\@makecaption#1#2{\let\@memtempa\relax
19066   \ifdim\prevdepth>-99\p@ \vskip\abovecaptionskip
19067   \else \def\@memtempa{\vbox to\topskip{}}\fi
19068   \let\@contfnote\footnote \renewcommand{\footnote}[2] [] {}
19069   \let\@contfmark\footnotemark \renewcommand{\footnotemark}[1] [] {}
19070   \sbox\@tempboxa{\@contnfont #1\@contdelim \@conttfont #2\@contfinal}
19071   \let\footnote\@contfnote
19072   \let\footnotemark\@contfmark
19073   \ifdim\wd\@tempboxa<\linewidth \centering \fi
19074   \if@contcw
19075     \centering
19076     \parbox{\@contcwidth}{%
19077       \ifdim\wd\@tempboxa<\@contcwidth \centering \fi
19078     \fi
19079   \ifdim\wd\@tempboxa<\linewidth
19080     \@contpre
19081     {\@contnfont #1\@contdelim}\@memtempa
19082     {\@contcshortstyle \@conttfont #2\@contfinal\par}
19083   \else
19084     \if@conthang
19085       \sbox\@tempboxa{\@contnfont #1\@contdelim}
19086       \@contpre%
19087       {\@contcstyle\hangindent=\wd\@tempboxa
19088         \noindent\box\@tempboxa\@memtempa \@conttfont #2\@contfinal\par}
19089     \else
19090       \if@contindent
19091         \@contpre%

```



```

19092     {\@contnfont #1\@contdelim}\@memtempa
19093     {\@contcstyle\hangindent=\@contindw
19094         \hangafter=\@one\@conttfont #2\@contfinal\par}% <- v1.4
19095     \else
19096     \@contpre%
19097     {\@contnfont #1\@contdelim}\@memtempa
19098     {\@contcstyle \@conttfont #2\@contfinal\par}
19099     \fi
19100     \fi
19101     \fi
19102     \@contpost
19103     \if@contcw
19104     \par
19105     } % end of the \parbox
19106     \fi
19107     \vskip\belowcaptionskip}
19108 \ApplyPatchCodeToPackage{caption}{%
19109 \AtBeginPackage{caption}{
19110 \ClassWarningNoLine{memoir}{%
19111 You are using the caption package with the memoir \MessageBreak
19112 class. This may cause unexpected or inconsistent \MessageBreak
19113 results if you use any of memoir's captioning facilities}
19114
19115 \long\def\@makecaption##1##2{%
19116     \vskip\abovecaptionskip
19117     \sbox\@tempboxa{\if@RTL\beginR\fi##1: ##2\if@RTL\endR\fi}%
19118     \ifdim \wd\@tempboxa >\hsize
19119         \if@RTL\beginR\fi##1: ##2\if@RTL\endR\fi\par
19120     \else
19121         \global \@minipagefalse
19122         \hb@xt@\hsize{\hfil\box\@tempboxa\hfil}%
19123     \fi
19124     \vskip\belowcaptionskip}
19125
19126 \def\caption{%
19127     \ifx\@capttype\@undefined
19128         \@latex@error{\noexpand\caption outside float}\@ehd
19129         \expandafter\@gobble
19130     \else
19131         \refstepcounter\@capttype
19132         \expandafter\@firstofone
19133     \fi
19134     {\@dblarg{\@caption\@capttype}}%
19135 }
19136
19137 \long\def\@caption##1[##2]##3{%
19138     \par
19139     \addcontentsline{\csname ext@##1\endcsname}{##1}%
19140         {\protect\numberline{\csname the##1\endcsname}{\ignorespaces ##2}}%
19141     \begingroup
19142         \@parboxrestore
19143         \if@minipage
19144             \@setminipage
19145         \fi

```



```

19146 \normalsize
19147 \@makecaption{\csname fnum###1\endcsname}{\ignorespaces ###3}\par
19148 \endgroup}
19149 }}
19150 \renewenvironment{thebibliography}[1]{%
19151 \bibsection
19152 \ifRTL\ifLTRbibitems\@RTLfalse\else\fi\else\ifRTLbibitems\@RTLtrue\else\fi\fi
19153 \bidi@thebibliography@font@hook%
19154 \begin{bibitemlist}{#1}}{\end{bibitemlist}\postbibhook}

```

## 116 File midfloat-xetex-bidi.def

```

19155 \ProvidesFile{midfloat-xetex-bidi.def}[2017/05/06 v0.4 bidi adaptations for midfloat package]
19156 \def\RTL@outputdblcol{%
19157 \if@firstcolumn
19158 \global \@firstcolumnfalse
19159 \global\setbox\@leftcolumn\copy\@outputbox
19160 \splitmaxdepth\maxdimen
19161 \vbadness\maxdimen
19162 \setbox\@outputbox\vbox{\unvbox\@outputbox\unskip}%
19163 \setbox\@outputbox\vsplit\@outputbox to\maxdimen
19164 \toks@\expandafter{\topmark}%
19165 \xdef\@firstcoltopmark{\the\toks@}%
19166 \toks@\expandafter{\splitfirstmark}%
19167 \xdef\@firstcolfirstmark{\the\toks@}%
19168 \ifx\@firstcolfirstmark\@empty
19169 \global\let\@setmarks\relax
19170 \else
19171 \gdef\@setmarks{%
19172 \let\firstmark\@firstcolfirstmark
19173 \let\topmark\@firstcoltopmark}%
19174 \fi
19175 \global\c@colht\@colht\global\c@advvipersep\z@
19176 \ifnum\j@sk>0
19177 \remove@strip\j@sar
19178 \global\@colht\the\j@pr
19179 \ifdim\right@cor>\z@
19180 \global\advance\@colht by\right@cor
19181 \fi
19182 \global\advance\@colht by\cor@height
19183 \global\cor@height=0pt
19184 \fi
19185 \global\setbox\@rightcolumn\vbox{%
19186 \else
19187 \ifdim\c@colht>\@colht
19188 \@tempdima\@colht
19189 \ifdim\@colht>\z@
19190 \global\setbox\@rightcolumn\vbox{%
19191 \unvbox\@rightcolumn
19192 \vbox to\@tempdima{%
19193 \vskip\c@advvipersep\unvbox\@outputbox}%
19194 \vskip\stripsep
19195 \vrule height\the\j@ht width 0pt depth 0pt
19196 \vskip\stripsep

```



```

19197             }%
19198         \global\c@advipersep\m@advipersep
19199     \else
19200     \global\setbox\@rightcolumn \vbox{%
19201         \unvbox\@rightcolumn
19202         \vrule height\the\juo@ht width 0pt depth 0pt
19203         \vskip\stripsep
19204     }%
19205     \fi
19206     \ifnum\juo@sk>0
19207         \remove@strip\juo@sar
19208         \global\@colht\the\juo@pr
19209         \global\advance\@colht by -\ht\@rightcolumn
19210         \global\advance\@colht by\cor@height
19211         \global\cor@height=0pt
19212     \else
19213         \global\advance\c@colht by-\ht\@rightcolumn
19214         \global\@colht\c@colht
19215     \fi
19216 \else
19217 \global\@firstcolumntrue
19218 \global\setbox\@outputbox\vbox to\ht\@leftcolumn{%
19219     \unvbox\@rightcolumn
19220     \vskip\c@advipersep
19221     \unvbox\@outputbox
19222 }%
19223 \setbox\@outputbox \vbox {%
19224     \hb@xt@\textwidth {%
19225         \hskip \columnwidth
19226         \hfil
19227         \vrule \@width\columnseprule
19228         \hfil
19229         \hb@xt@\columnwidth {%
19230             \bidi@firstcolumn@status@write%
19231             \box\@leftcolumn \hss}%
19232         \hskip-\textwidth
19233         \hb@xt@\columnwidth {%
19234             \bidi@lastcolumn@status@write%
19235             \box\@outputbox \hss}%
19236         \hskip\columnwidth
19237         \hskip\columnsep}%
19238     }%
19239 \@combinedblfloats
19240 \@setmarks
19241 \@outputpage
19242 \begingroup
19243     \@dblfloatplacement
19244     \@startdblcolumn
19245     \@whilesw\if@colmade \fi
19246     {\@outputpage
19247     \@startdblcolumn}%
19248 \endgroup
19249 \global\juo@sk=0\global\juo@sar={}%
19250 \global\cor@height\z@\global\c@advipersep\z@

```





```

19251   \fi
19252   \fi
19253 }
19254
19255
19256 \def\LTR@outputdblcol{%
19257   \if@firstcolumn
19258     \global \@firstcolumnfalse
19259     \global\setbox\@leftcolumn\copy\@outputbox
19260     \splitmaxdepth\maxdimen
19261     \vbadness\maxdimen
19262     \setbox\@outputbox\vbox{\unvbox\@outputbox\unskip}%
19263     \setbox\@outputbox\vsplit\@outputbox to\maxdimen
19264     \toks@\expandafter{\topmark}%
19265     \xdef\@firstcoltopmark{\the\toks@}%
19266     \toks@\expandafter{\splitfirstmark}%
19267     \xdef\@firstcolfirstmark{\the\toks@}%
19268     \ifx\@firstcolfirstmark\@empty
19269       \global\let\@setmarks\relax
19270     \else
19271       \gdef\@setmarks{%
19272         \let\firstmark\@firstcolfirstmark
19273         \let\topmark\@firstcoltopmark}%
19274     \fi
19275     \global\c@colht\@colht\global\c@advvipersep\z@
19276     \ifnum\juo@sk>0
19277       \remove@strip\juo@sar
19278       \global\@colht\the\juo@pr
19279       \ifdim\right@cor>\z@
19280         \global\advance\@colht by\right@cor
19281       \fi
19282       \global\advance\@colht by\cor@height
19283       \global\cor@height=Opt
19284     \fi
19285     \global\setbox\@rightcolumn\vbox{%
19286   \else
19287     \ifdim\c@colht>\@colht
19288       \@tempdima\@colht
19289       \ifdim\@colht>\z@
19290         \global\setbox\@rightcolumn\vbox{%
19291           \unvbox\@rightcolumn
19292           \vbox to\@tempdima{%
19293             \vskip\c@advvipersep\unvbox\@outputbox}%
19294           \vskip\stripsep
19295           \vrule height\the\juo@ht width Opt depth Opt
19296           \vskip\stripsep
19297           }%
19298         \global\c@advvipersep\m@advvipersep
19299       \else
19300         \global\setbox\@rightcolumn\vbox{%
19301           \unvbox\@rightcolumn
19302           \vrule height\the\juo@ht width Opt depth Opt
19303           \vskip\stripsep
19304         }%

```



```

19305         \fi
19306         \ifnum\jwo@sk>0
19307             \remove@strip\jwo@sar
19308             \global\@colht\the\jwo@pr
19309             \global\advance\@colht by -\ht\@rightcolumn
19310             \global\advance\@colht by\cor@height
19311             \global\cor@height=0pt
19312         \else
19313             \global\advance\c@colht by-\ht\@rightcolumn
19314             \global\@colht\c@colht
19315         \fi
19316 \else
19317 \global\@firstcolumntrue
19318 \global\setbox\@outputbox\vbox to\ht\@leftcolumn{%
19319     \unvbox\@rightcolumn
19320     \vskip\c@addvipersep
19321     \unvbox\@outputbox
19322     }%
19323 \setbox\@outputbox \vbox {%
19324     \hb@xt@\textwidth {%
19325         \hb@xt@\columnwidth {%
19326             \bidi@firstcolumn@status@write%
19327             \box\@leftcolumn \hss}%
19328         \hfil
19329         \vrule \@width\columnseprule
19330         \hfil
19331         \hb@xt@\columnwidth {%
19332             \bidi@lastcolumn@status@write%
19333             \box\@outputbox \hss}%
19334             }%
19335         }%
19336 \@combinedblfloats
19337 \@setmarks
19338 \@outputpage
19339 \begingroup
19340 \@dblfloatplacement
19341 \@startdblcolumn
19342 \@whilesw\if@colmade \fi
19343     {\@outputpage
19344     \@startdblcolumn}%
19345 \endgroup
19346 \global\jwo@sk=0\global\jwo@sar={}%
19347 \global\cor@height\z@\global\c@addvipersep\z@
19348 \fi
19349 \fi
19350 }
19351
19352
19353 \def\@strip[#1/#2]{\global\@tempdima=#1\global\@tempdimb=#2%
19354 \global\setbox\@viper\vbox\bgroup\if@RTLmain\moveleft\dimexpr(\columnwidth+\columnsep)\fi
19355     \hsize\textwidth
19356     \@parboxrestore
19357     \col@number \@ne
19358     \vrule height\topskip width0pt depth0pt

```



```

19359 }
19360
19361 \def\endstrip{%
19362     \egroup\egroup
19363     \if@firstcolumn
19364         \ifdim\pagetotal>\z@
19365             \vskip\stripsep
19366             \global\ht@strip\pagegoal
19367             \global\advance\ht@strip by-\pagetotal
19368             \global\advance\ht@strip by-\stripsep
19369             \global\advance\ht@strip by-\ht\@viper
19370             \global\advance\ht@strip by-\stripsep
19371             \global\juo@ht=\ht\@viper
19372         \else
19373             \global\ht@strip\z@
19374         \fi
19375     \ifdim\ht@strip>\z@
19376         \unvbox\@viper
19377         \vskip\stripsep
19378         \add@strip{\the\pagetotal}{\the\juo@ht}{\the\@tempdima}{\the\@tempdimb}%
19379         \global\advance\juo@sk by1
19380     \else
19381         \@latex@error{Strip needs more place!}\@ehc
19382         \if@vihproof
19383             \framebox[\columnwidth]{??? Strip ???}%
19384         \fi
19385     \fi
19386 \else
19387     \@latex@error{Strip is used only on left column!}\@ehc
19388     \if@vihproof
19389         \framebox[\columnwidth]{??? Strip ???}%
19390     \fi
19391 \fi
19392 }

```

## 117 File minitoc-xetex-bidi.def

```

19393 \ProvidesFile{minitoc-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for minitoc package f
19394 \def\@undottedtocline#1#2#3#4#5{%
19395     \ifnum #1>\c@tocdepth\relax \else
19396         \vskip \z@ plus.2\p@
19397     {\if@RTL\rightskip\else\leftskip\fi #2\relax \if@RTL\leftskip\else\rightskip\fi \@tocmarg
19398     \parindent #2\relax\@afterindenttrue
19399     \interlinepenalty\@M
19400     \leavevmode
19401     \@tempdima #3\relax \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \hbox{}%
19402     \hskip -\if@RTL\rightskip\else\leftskip\fi
19403     #4\nobreak\hfill \nobreak
19404     \null\par}%
19405 \fi}
19406 \def\@Undottedtocline#1#2#3#4#5{%
19407     \ifnum #1>\c@tocdepth\relax \else
19408         \vskip \z@ \@plus.2\p@
19409     {\if@RTL\rightskip\else\leftskip\fi #2\relax \if@RTL\leftskip\else\rightskip\fi \@tocma

```



```

19410 \parindent #2\relax\@afterindenttrue
19411 \interlinepenalty\@M
19412 \leavevmode
19413 \@tempdima #3\relax
19414 \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\right
19415 {\coffeesfont #4}\nobreak \nobreak\null
19416 \par}%
19417 \fi}
19418 \def\@Undottedtoclinep#1#2#3#4#5{%
19419 \ifnum #1>\c@tocdepth\relax \else
19420 \vskip \z@ \@plus.2\p@
19421 {\if@RTL\rightskip\else\leftskip\fi #2\relax \if@RTL\leftskip\else\rightskip\fi \@ocrma
19422 \parindent #2\relax\@afterindenttrue
19423 \interlinepenalty\@M
19424 \leavevmode
19425 \@tempdima #3\relax
19426 \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\right
19427 {#4}\nobreak \hfill \nobreak\null
19428 \hb@xt@\@pnumwidth{\hfil\normalfont \normalcolor #5}}%
19429 \par}%
19430 \fi}

```

## 118 File multicol-xetex-bidi.def

```

19431 \ProvidesFile{multicol-xetex-bidi.def}[2022/07/10 v1.4 bidi adaptations for multicol package]
19432 \def\page@sofar{%
19433 \process@cols\mult@rightbox
19434 {\ifvoid\count@
19435 \setbox\count@\hbox to\hsize}%
19436 \else
19437 \wd\count@\hsize
19438 \fi}%
19439 \count@\col@number \advance\count@\m@ne
19440 \mult@info\z@
19441 {Column spec: \the\full@width\space = indent
19442 + columns + sep =\MessageBreak
19443 \the\multicol@leftmargin\space
19444 + \the\col@number\space
19445 x \the\hsize\space
19446 + \the\count@\space
19447 x \the\columnsep
19448 }%
19449 \ifvmode\else\errmessage{Multicol Error}\fi
19450 \nointerlineskip
19451 \setbox\z@\hbox{p}\global\dimen\tw@\dp\z@
19452 \moveright\multicol@leftmargin
19453 \hbox to\full@width{%
19454 \bidi@multicol@align@columns
19455 \rlap{\phantom p}}%
19456 }%
19457 \prevdepth\z@
19458 \kern-\dimen\tw@
19459 \ifdim\dimen\tw@ > \mc@gridwarn
19460 \PackageWarning{multicol}%

```



```

19461     {Very deep columns!\MessageBreak
19462       Grid alignment might be broken}%
19463 \fi
19464 }
19465 \def\LTR@column@boxes{%
19466   \process@cols\mult@firstbox{%
19467     \ifdim\dp\count@>\dimen\tw@
19468     \global\dimen\tw@\dp\count@ \fi
19469     \mc@col@status@write
19470     \box\count@
19471     \hss{\columnseprulecolor\vrule
19472       \@width\columnseprule}\hss}%
19473   \ifdim\dp\mult@rightbox>\dimen\tw@
19474     \global\dimen\tw@\dp\mult@rightbox \fi
19475   \mc@lastcol@status@write
19476   \box\mult@rightbox
19477 }
19478
19479 \def\RTL@column@boxes{%
19480   \process@cols\mult@firstbox{%
19481     \hskip\hsize
19482     \hss{\columnseprulecolor\vrule
19483       \@width\columnseprule}\hss
19484   }%
19485   \hskip\hsize
19486   \process@cols\mult@firstbox{%
19487     \ifdim\dp\count@>\dimen\tw@
19488     \global\dimen\tw@\dp\count@ \fi
19489     \hskip-\hsize
19490     \mc@col@status@write
19491     \box\count@
19492     \hskip-\hsize
19493     \hskip-\columnsep
19494   }%
19495   \ifdim\dp\mult@rightbox>\dimen\tw@
19496     \global\dimen\tw@\dp\mult@rightbox \fi
19497   \hskip-\hsize
19498   \mc@lastcol@status@write
19499   \box\mult@rightbox
19500   \hskip-\hsize
19501   \hskip\full@width
19502 }
19503
19504 \newcommand\RTLmulticolcolumns
19505   {\let\ bidi@multicol@align@columns
19506     \RTL@column@boxes}
19507 \newcommand\LTRmulticolcolumns
19508   {\let\ bidi@multicol@align@columns
19509     \LTR@column@boxes}
19510 \newcommand\ bidi@multicol@align@columns
19511   {\if@RTLmain\RTL@column@boxes\else\LTR@column@boxes\fi}
19512 \ bidi@AtEndPreamble{%
19513   \if@bidi@csdef{footinsv[1]}{%
19514     \def\footnoterule{\kern-3\p@

```



```

19515     \hrule \@width \textwidth \kern 2.6\p@}%
19516   }{)%
19517 }
19518 \def\multicols#1{\col@number#1\relax
19519   \ifnum\col@number<\tw@
19520     \PackageWarning{multicol}%
19521       {Using `\

```



```

19569 \advance\dimen@-\ht\@bidi@copyins@
19570 }
19571
19572 \bidi@AtEndPreamble{%
19573 \if@bidi@csundef{footinsv@1}{%
19574 \bidi@patchcmd{\multi@column@out}{%
19575 \ifvbox \@kludgeins
19576 }{%
19577 \ifvoid\@bidi@copyins@ \else
19578 \bidi@leave@mult@copyins
19579 \fi
19580 \ifvbox \@kludgeins
19581 }{}{}%
19582 }{}%
19583 }
19584
19585

```

## 119 File multienum-xetex-bidi.def

```

19586 \ProvidesFile{multienum-xetex-bidi.def}[2011/04/16 v0.1 bidi adaptations for multienum packa
19587 \renewcommand{\itemx}[1]{\parbox[t]%
19588 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep%
19589 \parbox[t]{\remainx}{\bidi@raggedright #1}\par}%\smallskip
19590 \renewcommand{\itemxx}[2]{\parbox[t]%
19591 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19592 \parbox[t]{.5\remainxx}{\bidi@raggedright #1}\hfill\parbox[t]%
19593 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19594 \parbox[t]{0.5\remainxx}{\bidi@raggedright #2}\smallskip}
19595 \renewcommand{\itemxxx}[3]{\parbox[t]%
19596 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep%
19597 \parbox[t]{.3333\remainxxx}{\bidi@raggedright #1}\hfill\parbox[t]%
19598 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep%
19599 \parbox[t]{0.3333\remainxxx}{\bidi@raggedright #2}\hfill\parbox[t]%
19600 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep%
19601 \parbox[t]{0.3333\remainxxx}{\bidi@raggedright #3}\par}%\smallskip
19602 \renewcommand{\itemxxxx}[4]{\parbox[t]%
19603 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19604 \parbox[t]{.25\remainxxxx}{\bidi@raggedright #1}\hfill\parbox[t]%
19605 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19606 \parbox[t]{0.25\remainxxxx}{\bidi@raggedright #2}\hfill%
19607 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19608 \parbox[t]{0.25\remainxxxx}{\bidi@raggedright #3}\hfill%
19609 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19610 \parbox[t]{0.25\remainxxxx}{\bidi@raggedright #4}\smallskip}
19611 \renewcommand{\itemxxxxx}[5]{\parbox[t]%
19612 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19613 \parbox[t]{0.2\remainxxxxx}{\bidi@raggedright #1}\hfill%
19614 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19615 \parbox[t]{0.2\remainxxxxx}{\bidi@raggedright #2}\hfill%
19616 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19617 \parbox[t]{0.2\remainxxxxx}{\bidi@raggedright #3}\hfill%
19618 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19619 \parbox[t]{0.2\remainxxxxx}{\bidi@raggedright #4}\hfill%

```



```

19620 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19621 \parbox[t]{0.2\remainxxxx}{\bidi@raggedright #5}\smallskip}
19622 \renewcommand{\itemxox}[2]{\parbox[t]%
19623 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19624 \parbox[t]{\remainxox}{\bidi@raggedright #1}\hfill%
19625 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19626 \parbox[t]{0.3333\remainxxx}{\bidi@raggedright #2}\smallskip}
19627 \renewcommand{\itemxox}[2]{\parbox[t]%
19628 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19629 \parbox[t]{0.3333\remainxxx}{\bidi@raggedright #1}\hfill%
19630 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19631 \parbox[t]{\remainxox}{\bidi@raggedright #2}\smallskip}
19632 \renewcommand{\itemxox}[3]{\parbox[t]%
19633 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19634 \parbox[t]{\remainxox}{\bidi@raggedright #1}\hfill%
19635 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19636 \parbox[t]{0.25\remainxxxx}{\bidi@raggedright #2}\hfill%
19637 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19638 \parbox[t]{0.25\remainxxxx}{\bidi@raggedright #3}\smallskip}
19639 \renewcommand{\itemxox}[3]{\parbox[t]%
19640 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19641 \parbox[t]{.25\remainxxxx}{\bidi@raggedright #1}\hfill%
19642 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19643 \parbox[t]{\remainxox}{\bidi@raggedright #2}\hfill%
19644 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19645 \parbox[t]{0.25\remainxxxx}{\bidi@raggedright #3}\smallskip}
19646 \renewcommand{\itemxox}[3]{\parbox[t]%
19647 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19648 \parbox[t]{.25\remainxxxx}{\bidi@raggedright #1}\hfill%
19649 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19650 \parbox[t]{.25\remainxxxx}{\bidi@raggedright #2}\hfill%
19651 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19652 \parbox[t]{\remainxox}{\bidi@raggedright #3}\smallskip}

```

## 120 File natbib-xetex-bidi.def

```

19653 \ProvidesFile{natbib-xetex-bidi.def}[2017/06/09 v0.2 bidi adaptations for natbib package for
19654 \renewenvironment{thebibliography}[1]{%
19655 \bibsection
19656 \parindent\z@
19657 \bibpreamble
19658 \bibfont
19659 \if@RTL\if@LTR\bibitems@RTLfalse\else\fi\else\if@RTL\bibitems@RTLtrue\else\fi\fi
19660 \bidi@@thebibliography@font@hook%
19661 \list{\@biblabel{\the\c@NAT@ctr}}{\@bibsetup{#1}\global\c@NAT@ctr\z@}%
19662 \ifNAT@openbib
19663 \renewcommand\newblock{\par}%
19664 \else
19665 \renewcommand\newblock{\hskip .11em \@plus.33em \@minus.07em}%
19666 \fi
19667 \sloppy\clubpenalty4000\widowpenalty4000
19668 \sfcode`. \@m
19669 \let\NAT@bibitem@first@sw\@firstoftwo
19670 \let\citeN\cite \let\shortcite\cite

```





```

19671 \let\citeasnoun\cite
19672 }{%
19673 \bibitem@fin
19674 \bibpostamble
19675 \def\@noitemerr{%
19676 \PackageWarning{natbib}{Empty `thebibliography' environment}%
19677 }%
19678 \endlist
19679 \bibcleanup
19680 }%

```

## 121 File newfloat-xetex-bidi.def

```

19681 \ProvidesFile{newfloat-xetex-bidi.def}[2013/05/22 v0.1 bidi adaptations for newfloat package]
19682 \renewcommand*{newfloat@setwithin[2]}{%
19683 \ifcsname c@chapter\endcsname
19684 \@removefromreset{#1}{chapter}%
19685 \fi
19686 \@removefromreset{#1}{section}%
19687 \edef\@tempa{#2}%
19688 \ifx\@tempa\@empty
19689 \def\@tempa{none}%
19690 \fi
19691 \def\@tempb{none}%
19692 \ifx\@tempa\@tempb
19693 \ifcsname c@chapter\endcsname
19694 \@chapterlistsgap@off{#1}%
19695 \fi
19696 \newfloat@@setwithin{#1}{\@tempa}%
19697 \else
19698 \def\@tempb{chapter}%
19699 \ifx\@tempa\@tempb
19700 \@addtoreset{#1}{chapter}%
19701 \@chapterlistsgap@on{#1}%
19702 \newfloat@@setwithin{#1}{\ifnum\c@chapter>\z@ \thechapter\@SepMark\fi}{\theHchapter\@SepMark}%
19703 \else
19704 \def\@tempb{section}%
19705 \ifx\@tempa\@tempb
19706 \@addtoreset{#1}{section}%
19707 \ifcsname c@chapter\endcsname
19708 \@addtoreset{#1}{chapter}%
19709 \@chapterlistsgap@on{#1}%
19710 \newfloat@@setwithin{#1}{\thesection\@SepMark}{\theHsection\@SepMark}%
19711 \else
19712 \newfloat@@setwithin{#1}{\ifnum\c@section>\z@ \thesection\@SepMark\fi}{\theHsection\@SepMark}%
19713 \fi
19714 \else
19715 \newfloat@Error{Invalid value `#2' for option `within'}%
19716 \fi
19717 \fi
19718 \fi}

```

## 122 File nicematrix-xetex-bidi.def



```

19719 \ProvidesFile{nicematrix-xetex-bidi.def}[2024/12/15 v0.3 bidi adaptations for nicematrix pac
19720 \ExplSyntaxOn
19721 \bidi@patchcmd{\__nicematrix_array:n}{\@tabarray}{%
19722   \bool_if:NF \l__nicematrix_tabular_bool \@RTLtabfalse
19723   \@tabarray
19724 }{}{}
19725 \ExplSyntaxOff
19726

```

## 123 File ntheorem-xetex-bidi.def

```

19727 \ProvidesFile{ntheorem-xetex-bidi.def}[2012/05/01 v0.1 bidi adaptations for ntheorem package
19728 \gdef\@thm#1#2#3{%
19729   \if@thmmarks
19730     \stepcounter{end\InTheoType ctr}%
19731   \fi
19732   \renewcommand{\InTheoType}{#1}%
19733   \if@thmmarks
19734     \stepcounter{curr#1ctr}%
19735     \setcounter{end#1ctr}{0}%
19736   \fi
19737   \refstepcounter{#2}%
19738   \theorem@prework
19739   \thm@topsepadd \theorempostskipamount % cf. latex.ltx: \@trivlist
19740   \ifvmode \advance\thm@topsepadd\partopsep\fi
19741   \trivlist
19742   \@topsep \theorempreskipamount
19743   \@topsepadd \thm@topsepadd % used by \@endparenv
19744   \advance\linewidth -\theorem@indent
19745   \advance\@totalleftmargin \theorem@indent
19746   \if@RTL\parshape \@ne Opt \linewidth\else \parshape \@ne \@totalleftmargin \linewidth\fi
19747   \@ifnextchar [{\@ythm{#1}{#2}{#3}}{\@xthm{#1}{#2}{#3}}

```

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

```

19748 \ProvidesFile{ntheorem-hyper-xetex-bidi.def}[2012/05/01 v0.1 bidi adaptations for ntheorem-h
19749 \gdef\@thm#1#2#3{%
19750   \if@thmmarks
19751     \stepcounter{end\InTheoType ctr}%
19752   \fi
19753   \renewcommand{\InTheoType}{#1}%
19754   \if@thmmarks
19755     \stepcounter{curr#1ctr}%
19756     \setcounter{end#1ctr}{0}%
19757   \fi
19758   \refstepcounter{#2}%
19759   \thm@topsepadd \theorempostskipamount % cf. latex.ltx: \@trivlist
19760   \ifvmode \advance\thm@topsepadd\partopsep\fi
19761   \trivlist
19762   \@topsep \theorempreskipamount
19763   \@topsepadd \thm@topsepadd % used by \@endparenv
19764   \advance\linewidth -\theorem@indent
19765   \advance\@totalleftmargin \theorem@indent
19766   \if@RTL\parshape \@ne Opt \linewidth\else \parshape \@ne \@totalleftmargin \linewidth\fi

```



```
19767 \@ifnextchar[{\@ythm{#1}{#2}{#3}}{\@xthm{#1}{#2}{#3}}}
```

## 125 File `overpic-xetex-bidi.def`

```
19768 \ProvidesFile{overpic-xetex-bidi.def}[2015/12/07 v0.1 bidi adaptations for overpic package f
19769 \renewenvironment{overpic}[2][\%
19770 \sbox{\z@}{\includegraphics[#1]{#2}}%
19771 \settodepth{\@tempcnta}{\usebox{\z@}}%
19772 \settoheight{\@tempcntb}{\usebox{\z@}}%
19773 \advance\@tempcntb\@tempcnta%
19774 \settowidth{\@tempcnta}{\usebox{\z@}}%
19775 \setlength{\@tempdima}{\unitlength}%
19776 \count@=\z@\Gin@gridfalse\setkeys{Gin}{#1}%
19777 %
19778 \OVP@calc%
19779 %
19780 \begin{picture}(\@tempcnta,\@tempcntb)%
19781 \if@RTL\else\put(0,0){\makebox(0,0)[bl]{\usebox{\z@}}}%
19782 \ifGin@grid%
19783 \put(0,0){\normalfont\fontsize\@viipt\@viipt\selectfont%
19784 \grid(\@tempcnta,\@tempcntb)(\count@,\count@)[0,0]}%
19785 \fi\fi%
19786 % reset the graphics parameter
19787 \let\Gin@outer@scalex\relax
19788 \let\Gin@outer@scaley\relax
19789 \let\Gin@angle\relax
19790 \let\Gin@ewidth\Gin@exclamation
19791 \let\Gin@eheight\Gin@ewidth
19792 \def\Gin@scalex{1}
19793 \let\Gin@scaley\Gin@exclamation
19794 }{%
19795 \if@RTL\ifGin@grid%
19796 \put(0,0){\normalfont\fontsize\@viipt\@viipt\selectfont%
19797 \grid(\@tempcnta,\@tempcntb)(\count@,\count@)[0,0]}%
19798 \fi%
19799 \put(0,0){\makebox(0,0)[bl]{\usebox{\z@}}}\fi%
19800 \end{picture}%
19801 }%
```

## 126 File `pdfbase-xetex-bidi.def`

```
19802 \ProvidesFile{pdfbase-xetex-bidi.def}[2022/02/18 v0.4 bidi adaptations for pdfbase package f
19803 \ExplSyntaxOn
19804 \cs_set_eq:NN\pbs_outputpage_orig:\@outputpage
19805 \cs_set_nopar:Npn\@outputpage{
19806 \int_gincr:N\g_pbs_page_int
19807 \box_if_vertical:cTF{\outputbox}{
19808 \bool_set_true:N\l_pbs_is_vertical_bool
19809 }{
19810 \bool_set_false:N\l_pbs_is_vertical_bool
19811 }
19812 \hbox_set:Nn\@outputbox{
19813 %begin of page
19814 \hbox_overlap_right:n{\seq_map_inline:Nn\g_pbs_bop_seq{##1}}
```



```

19815 \box_use_drop:N\@outputbox
19816 %end of page
19817 \hbox_overlap_right:n{\seq_map_inline:Nn\g_pbs_eop_seq{##1}}
19818 }
19819 \bool_if:NT\l_pbs_is_vertical_bool{
19820 \vbox_set:Nn\@outputbox{\box_use_drop:N\@outputbox}
19821 }
19822 \pbs_outputpage_orig:
19823 }
19824 \ExplSyntaxOff

```

## 127 File pdfscape-xetex-bidi.def

```

19825 \ProvidesFile{pdfscape-xetex-bidi.def}[2022/02/18 v0.1 bidi adaptations for pdfscape package]
19826 \bidi@patchcmd{\landscape}{\PLS@Rotate{90}}{%
19827 \if@RTL
19828 \PLS@Rotate{-90}%
19829 \else
19830 \PLS@Rotate{90}%
19831 \fi
19832 }{}{}

```

## 128 File pdfpages-xetex-bidi.def

```

19833 \ProvidesFile{pdfpages-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for pdfpages package]
19834 \renewcommand*{\includepdf}[2] [] {%
19835 \begingroup
19836 \@RTLfalse
19837 \let\AM@threadname\relax
19838 \AM@split@options{pdfpages}{#1}%
19839 \edef\AM@temp{\pdfpages}\the\@temptokena}%
19840 \expandafter\setkeys\AM@temp
19841 \ifthenelse{\boolean{AM@pkg@draft} \and \boolean{AM@survey}}{%
19842 \let\AM@currentdocname\relax
19843 \renewcommand\includegraphics[2] [] {Survey in draft-mode}%
19844 \def\AM@pagecount{0}%
19845 }{%
19846 \AM@findfile{#2}%
19847 \if\AM@threadname\relax
19848 \def\AM@threadname{\AM@currentdocname}%
19849 \fi
19850 }%
19851 \ifAM@survey
19852 \def\AM@pagestemp{}%
19853 \@tempcnta=0
19854 \def\foo{%
19855 \@ifundefined{r@\AM@xrpref prefix pdfpages@page\the\@tempcnta}%
19856 {\let\foo\relax}
19857 {\expandafter\ifx\expandafter\\AM@pagestemp\
19858 \edef\AM@pagestemp{%
19859 \AM@pageref{\AM@xrpref prefix pdfpages@page\the\@tempcnta}}}%
19860 \else
19861 \edef\AM@pagestemp{\AM@pagestemp,%
19862 \AM@pageref{\AM@xrpref prefix pdfpages@page\the\@tempcnta}}%

```



```

19863         \fi
19864         \advance\@tempcnta 1\relax
19865     }%
19866     \foo
19867 }%
19868 \foo
19869 \expandafter\ifx\expandafter\\AM@pagestemp\\
19870 \def\AM@pagestemp{1}%
19871 \fi
19872 \fi
19873 \ifAM@output
19874     \expandafter\AM@readlist\expandafter{\AM@pagestemp}%
19875     \AM@output{#1}%
19876 \fi
19877 \AM@CheckAtEnd
19878 \endgroup
19879 \AM@ClearShipoutPicture
19880 }

```

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

```

19881 \ProvidesFile{pgfcorescopes.code-xetex-bidi.def}[2015/11/14 v0.1 bidi adaptations for pgf pa
19882 \def\pgfpicture{%
19883     \begingroup%
19884     \ifmode\else\@RTLfalse\beginL\fi%
19885     \pgfpicturetrue%
19886     \global\advance\pgf@picture@serial@count by1\relax%
19887     \edef\pgfpictureid{pgfid\the\pgf@picture@serial@count}%
19888     \let\pgf@nodecallback=\pgfutil@gobble%
19889     \pgf@picmaxx=-16000pt\relax%
19890     \pgf@picminx=16000pt\relax%
19891     \pgf@picmaxy=-16000pt\relax%
19892     \pgf@picminy=16000pt\relax%
19893     \pgf@relevantforpicturesizetrue%
19894     \pgf@resetpathsizes%
19895     \pgfutil@ifnextchar\bgroup\pgf@oldpicture\pgf@picture%
19896 \def\endpgfpicture{%
19897     \ifpgfrememberpicturerepositiononpage%
19898         \hbox to0pt{\pgfsys@markposition{\pgfpictureid}}%
19899     \fi%
19900     % ok, now let's position the box
19901     \ifdim\pgf@picmaxx=-16000pt\relax%
19902         % empty picture. make size 0.
19903         \global\pgf@picmaxx=0pt\relax%
19904         \global\pgf@picminx=0pt\relax%
19905         \global\pgf@picmaxy=0pt\relax%
19906         \global\pgf@picminy=0pt\relax%
19907     \fi%
19908     % Shift baseline outside:
19909     \pgf@relevantforpicturesizefalse%
19910     \pgf@process{\pgf@baseline}%
19911     \xdef\pgf@shift@baseline{\the\pgf@y}%
19912     %
19913     \pgf@process{\pgf@trimleft}%

```



```

19914         \global\advance\pgf@x by-\pgf@picminx
19915         % prepare \hskip\pgf@trimleft@final.
19916         % note that \pgf@trimleft@final is also queried
19917         % by the pgf image externalization.
19918         \xdef\pgf@trimleft@final{-\the\pgf@x}%
19919         %
19920         \pgf@process{\pgf@trimright}%
19921         \global\advance\pgf@x by-\pgf@picmaxx
19922         % prepare \hskip\pgf@trimright@final.
19923         % note that \pgf@trimright@final is also queried
19924         % by the pgf image externalization.
19925         \xdef\pgf@trimright@final{\the\pgf@x}%
19926         %
19927         \pgf@remember@layerlist@globally
19928         \endgroup%
19929         \hss%
19930         \egroup%
19931         \pgf@restore@layerlist@from@global
19932         \pgf@insertlayers%
19933         \endgroup%
19934         \pgfsys@discardpath%
19935         \endgroup%
19936         \pgfsys@endscope%
19937         \pgfsys@endpicture%
19938         \endgroup%
19939         \hss
19940     \egroup%
19941     \pgfsys@typesetpicturebox\pgfpic%
19942     \ifmode\else\endL\fi%
19943     \endgroup%
19944 }

```

### 130 File `pgfsys.code-xetex-bidi.def`

```

19945 \ProvidesFile{pgfsys.code-xetex-bidi.def}[2022/06/01 v0.1 bidi adaptations for pgfsys.code.t
19946 \def\pgfsys@shadingoutsidepgfpicture#1{%
19947     \beginL#1\endL%
19948 }
19949
19950

```

### 131 File `picinpar-xetex-bidi.def`

```

19951 \ProvidesFile{picinpar-xetex-bidi.def}[2013/04/08 v0.2 bidi adaptations for picinpar package
19952 \long\def\@makewincaption#1#2{%
19953     \setbox\@tempboxa\hbox{\footnotesize{\bf #1:\enspace}{#2}}%
19954     \ifdim\wd\@tempboxa>\picwd
19955         {\footnotesize{\bf #1:\enspace}{#2\par}}
19956     \else
19957         \hbox to\picwd{\if@RTL\beginR\fi\hfil\box\@tempboxa\hfil\if@RTL\endR\fi}
19958     \fi}
19959 \def\endwindow{%
19960     \global\tcd=\tcdsav
19961     \egroup\vskip\parskip\parshape=0 % reset parshape; end \box\rawtext

```



```

19962 \vbadness=10000
19963 \splittopskip=0pt
19964 %
19965 % Typeset the lines above the window
19966 %
19967 \ifnum\tcd>0\setbox\holder=\vsplit\rawtext to \tcd\baselineskip
19968 \tcn=\tcd
19969 \loop\advance\tcn -1
19970 \setbox\fslice=\vsplit\holder to\baselineskip
19971 \prune\fslice\linewidth
19972 \topheight=0pt
19973 \ifnum\dp\fslice>\dp\wstrutbox
19974 \advance\topheight-\dp\fslice
19975 \advance\topheight\dp\wstrutbox
19976 \advance\topheight\ilg\fi
19977 \hbox to\linewidth{\box\fslice}
19978 \vskip-\topheight
19979 \ifdim\ht\holder>0pt\repeat
19980 \fi
19981 %
19982 % Now we build the boxes beside the window
19983 %
19984 \global\topheight=\tcl\baselineskip
19985 \ifnum\cumpartcl>0\global\tcl=\cumtcl
19986 \global\topheight=\vpic
19987 \fi
19988 \ifnum\bl>0 \ifnum\br>0 \multiply\topheight by 2\fi\fi
19989 \ifnum\bl>0\setbox\holder=\vsplit\rawtext to\topheight
19990 \else\ifnum\br>0\setbox\holder=\vsplit\rawtext to\topheight\fi\fi
19991 \tcn=\tcl \na=0 \nb=0
19992 \ifnum\bl>0 \ifnum\br>0 \multiply\tcn by 2\fi\fi
19993 \ifnum\bl>0\na=\tcn\ifnum\br>0\divide\na by 2\fi\fi
19994 \ifnum\br>0\nb=\tcn\ifnum\bl>0\divide\nb by 2\fi\fi
19995 \ifnum\na=0\ifnum\nb=0
19996 \setbox\waslice=\vbox to\vpic{\vss}
19997 \setbox\wbslice=\vbox to\vpic{\vss}
19998 \bl=1\br=1
19999 \vskip\ilg
20000 \fi\fi
20001 %
20002 % both sides
20003 %
20004 \ifnum\na>0 \ifnum\nb>0
20005 \loop\advance\nb -1
20006 \advance\na -1
20007 \if@RTL%
20008 \setbox\bslice=\vsplit\holder to\baselineskip
20009 \prune\bslice\rtside
20010 \setbox\wbslice=\vbox{\unvbox\wbslice\hbox
20011 to\rtside{\box\bslice\hfil}}
20012 \setbox\aslice=\vsplit\holder to\baselineskip
20013 \prune\aslice\lftside
20014 \setbox\waslice=\vbox{\unvbox\waslice\hbox
20015 to\lftside{\box\aslice\hfil}}

```



```

20016 \else%
20017 \setbox\aslice=\vsplit\holder to\baselineskip
20018 \prune\aslice\lftside
20019 \setbox\waslice=\vbox{\unvbox\waslice\hbox
20020 to\lftside{\box\aslice\hfil}}
20021 \setbox\bslice=\vsplit\holder to\baselineskip
20022 \prune\bslice\rtside
20023 \setbox\wbslice=\vbox{\unvbox\wbslice\hbox
20024 to\rtside{\box\bslice\hfil}}
20025 \fi%
20026 \ifnum\nb>0\repeat
20027 \fi\fi
20028 %
20029 % only text on the left side
20030 %
20031 \ifnum\na>0
20032   \loop\advance\na -1
20033   \setbox\aslice=\vsplit\holder to\baselineskip
20034   \prune\aslice\lftside
20035   \setbox\waslice=\vbox{\unvbox\waslice\hbox
20036   to\lftside{\box\aslice\hfil}}
20037   \ifdim\ht\holder>0pt\repeat
20038 \fi
20039 %
20040 % only text on the right side
20041 %
20042 \ifnum\nb>0
20043   \loop\advance\nb -1
20044   \setbox\bslice=\vsplit\holder to\baselineskip
20045   \prune\bslice\rtside
20046   \setbox\wbslice=\vbox{\unvbox\wbslice\hbox
20047   to\rtside{\box\bslice\hfil}}
20048   \ifdim\ht\holder>0pt\repeat
20049 \fi
20050 %
20051 % fixing the dimensions of the window part
20052 %
20053 \ifnum\bl=0\topheight=\ht\wbslice
20054 \else\ifnum\br=0\topheight=\ht\waslice
20055   \else\ifdim\ht\waslice>\ht\wbslice\topheight=\ht\waslice
20056   \else\topheight=\ht\wbslice\fi\fi\fi
20057 %
20058 % ship out the window material to the main vertical list
20059 %
20060 \ifnum\bl>0 \ifnum\br>0 \ifdim\ht\wbslice<\topheight
20061 \setbox\wbslice=\vbox to\topheight{\box\wbslice\vfill}
20062 \fi\fi\fi
20063 \setbox>windowbox=\vbox{\hbox to\linewidth{%
20064 \ifnum\bl>0\box\waslice\hfil}\fi%
20065 \vbox to\topheight{\hrule width\picwd height0pt depth0pt\vskip0pt%
20066 \vfill\unvbox\picbox%
20067 \ifnum\picwd>0\vfill\fi%
20068 \vss}\ifnum\br>0\hfill\vbox{\box\wbslice}\fi}}%
20069 \unvbox>windowbox%

```





```

20070 \loop
20071 \setbox\bslice=\vsplit\rawtext to\baselineskip
20072 \prune\bslice\linewidth
20073 \setbox\wbslice=\vbox{\hbox to\linewidth{\box\bslice\hfil}}
20074 \unvbox\wbslice
20075 \ifdim\ht\rawtext>0pt
20076 \repeat
20077 }% FINITO

```

## 132 File plain-xetex-bidi.def

```

20078 \def\TeXeTOn{\TeXeTstate=1 }
20079 \def\TeXeTOff{\TeXeTstate=0 }
20080 \TeXeTOn
20081 \def\usebox#1{\leavevmode\copy #1\relax}
20082 \def\ bidi@RTL@everypar{\setbox\z@\lastbox\if@RTL\beginR\else\beginL\fi\ifvoid\z@\else\usebox\z@}
20083 \let\ bidi@o@everypar=\everypar
20084 \newtoks\ bidi@n@everypar
20085 \ bidi@n@everypar\expandafter{\the\ bidi@o@everypar}
20086 \ bidi@o@everypar{\ bidi@RTL@everypar\the\ bidi@n@everypar}
20087 \let\ everypar=\ bidi@n@everypar
20088 \def\moreLRE{\bracetext \aftergroup\endL \beginL\@RTLfalse}
20089 \def\moreRLE{\bracetext \aftergroup\endR \beginR\@RTLtrue}
20090 \protected\def\hboxR{\hbox\bgroup
20091 \everyhbox{%
20092 \aftergroup\egroup
20093 \everyhbox{}}%
20094 \beginR
20095 \@hboxRconstructtrue
20096 \bgroup
20097 \aftergroup\endR
20098 \aftergroup\egroup
20099 }\hbox}
20100 \protected\def\hboxL{\hbox\bgroup
20101 \everyhbox{%
20102 \aftergroup\egroup
20103 \everyhbox{}}%
20104 \beginL
20105 \@hboxRconstructfalse
20106 \bgroup
20107 \aftergroup\endL
20108 \aftergroup\egroup
20109 }\hbox}
20110 \protected\def\vboxR{\vbox\bgroup
20111 \everyvbox{%
20112 \aftergroup\egroup
20113 \everyvbox{}}%
20114 \@RTLtrue
20115 \bgroup
20116 \aftergroup\egroup
20117 }\vbox}
20118 \protected\def\vboxL{\vbox\bgroup
20119 \everyvbox{%
20120 \aftergroup\egroup

```



```

20121 \everyvbox{}%
20122 \@RTLfalse
20123 \bgroup
20124 \aftergroup\egroup
20125 }\vbox}
20126 \def\LTR{\par\@RTLfalse\@RTL@footnotefalse\hsize\linewidth\parshape\z@}
20127 \def\endLTR{\par}
20128 \def\RTL{\par\@RTLtrue\@RTL@footnotetrue\hsize\linewidth\parshape\z@}
20129 \def\endRTL{\par}
20130 \def\setRTL{\@RTLtrue\@RTL@footnotetrue}
20131 \def\setLTR{\@RTLfalse\@RTL@footnotefalse}
20132 \let\unsetRTL=\setRTL
20133 \let\unsetLTR=\setLTR
20134 \let\LR=\LRE
20135 \let\RL=\RLE
20136 \def\@ensure@RTL#1{\if@RTL#1\else\RLE{#1}\fi}
20137 \def\@ensure@LTR#1{\if@RTL\LRE{#1}\else#1\fi}
20138 \let\@ensure@RL=\@ensure@RTL
20139 \let\@ensure@LR=\@ensure@LTR
20140 \def\@ensure@dir#1{\if@RTL\RLE{#1}\else{#1}\fi}
20141 \let\@ensure@maindir=\@ensure@dir
20142 \def\@@RTL{RTL}
20143 \def\@@LTR{LTR}
20144 \def\save@dir{\if@RTL\gdef\saved@@dir{RTL}\else\gdef\saved@@dir{LTR}\fi}
20145 \def\reset@dir{\ifx\saved@@dir\@@RTL\setRTL\else\ifx\saved@@dir\@@LTR\setLTR\else\relax\fi}
20146 \let\@@TeX\TeX
20147 \def\TeX{\@ensure@LTR{\@@TeX}}
20148 \def\pagecontents{\ifvoid\topins\else\unvbox\topins\fi
20149 \dimen@=\dp\@cclv \unvbox\@cclv % open up \box255
20150 \ifvoid\footins\else % footnote info is present
20151 \vskip\skip\footins
20152 \footnoterule
20153 \unvbox\footins\fi
20154 \ifrggedbottom \kern-\dimen@ \vfil \fi
20155 \ifvoid\@bidi@copyins@
20156 \else
20157 \vskip\skip\@bidi@copyins@
20158 \unvbox\@bidi@copyins@
20159 \fi
20160 }
20161 \long\def\bidi@reflect@box#1{%
20162 \leavevmode
20163 \setbox\z@\hbox{#1}}%
20164 \setbox\tw@\hbox{\special{x:gsave}\special{x:scale -1 1}\rlap{\copy\z@}\special{x:grestore}}
20165 \hbox to \wd\z@{\kern\wd\z@\box\tw@\hss}%
20166 }
20167 \def\XeTeX{\LR{\leavevmode$\smash{\hbox{X}\lower.5ex
20168 \hbox{\kern-.125em\bidi@reflect@box{E}}\kern-.1667em \TeX}}$}}
20169 \let\setRL=\setRTL
20170 \let\setLR=\setLTR
20171 \let\unsetRL=\setLTR
20172 \let\bidi@saved@eqno=\eqno
20173 \let\bidi@saved@leqno=\leqno
20174 \def\eqno{\ifnum\predisplaydirection<\z@ \bidi@saved@leqno \else \bidi@saved@eqno \fi}

```



```

20175 \def\leqno{\ifnum\pdisplaydirection<\z@ \bidi@saved@eqno \else \bidi@saved@leqno \fi}
20176 \def\centerline#1{\line{\hss\if@RTL\beginR\fi#1\if@RTL\endR\fi\hss}}
20177 \def\leftline#1{\line{\if@RTL\beginR\fi#1\if@RTL\endR\fi\hss}}
20178 \def\rightline#1{\line{\hss\if@RTL\beginR\fi#1\if@RTL\endR\fi}}

```

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

```

20179 \ProvidesFile{pstricks-xetex-bidi.def}[2022/09/22 v0.6 bidi adaptations for pstricks package]
20180 \def\pspicture{\begingroup\ifmmode\else\@RTLfalse\beginL\fi\pst@ifstar\pst@picture}
20181 \def\endpspicture{%
20182   \ifshowgrid\ifnum\showgridp@s>0
20183     \psgrid[xunit=\sh@wgridXunit,yunit=\sh@wgridYunit,style=gridstyle]\fi\fi%
20184   \pst@killglue
20185 %   \global\pst@shift=\pst@shift% in fact of the following endgroup
20186   \endgroup
20187   \egroup
20188   \ifdim\wd\pst@hbox=\z@\else
20189     %\@pstrickserr{Extraneous space in the pspicture environment}%
20190     %\Type \space <return> \space to proceed.}%
20191   \fi
20192   \ht\pst@hbox=\pst@dimd
20193   \dp\pst@hbox=-\pst@dimb
20194   \setbox\pst@hbox=\hbox{%
20195     \kern-\pst@dima
20196 % Orig version -----
20197 %\ifx\pst@tempa\@empty\else
20198 %\advance\pst@dimd-\pst@dimb
20199 %\pst@dimd=\pst@tempa\pst@dimd
20200 %\advance\pst@dimd\pst@dimb
20201 %\lower\pst@dimd
20202 %\fi
20203 %----- end Orig
20204   \if\pst@shift@star%\typeout{==pstricks== old behaviour of the shift option}% shift=*
20205     \advance\pst@dimd-\pst@dimb
20206     \pst@dimd=0.5\pst@dimd
20207   \else\pst@dimd-\pst@shift\fi
20208   \advance\pst@dimd\pst@dimb
20209   \lower\pst@dimd
20210   \box\pst@hbox
20211   \kern\pst@dimc}%
20212   \if\star\setbox\pst@hbox=\hbox{\clipbox@@\z@}\fi
20213   \leavevmode\ifdim\overfullrule=\z@\box\pst@hbox\else
20214   \fboxsep=0pt
20215   \fbox{\rule[-\pst@shift]{0pt}{\ht\pst@hbox}\rule{\wd\pst@hbox}{0pt}}\fi
20216   \ifmmode\else\endL\fi
20217   \endgroup%
20218   \psset[pstricks]{shift=0}% reset value
20219 }
20220
20221 \bidi@patchcmd\@scalebox{%
20222   \special{x: bscale \pst@tempc \pst@tempd}%
20223   \hbox to \z@\box\pst@hbox\hss}%
20224   \special{x: escale}%
20225 }{%

```



```

20226 \if@RTL
20227   \special{x: escale}%
20228 \else
20229   \special{x: bscale \pst@tempc \pst@tempd}%
20230 \fi
20231 \hbox to \z@\box\pst@hbox\hss}%
20232 \if@RTL
20233   \special{x: bscale \pst@tempc \pst@tempd}%
20234 \else
20235   \special{x: escale}%
20236 \fi
20237 }{}{}
20238 \let\ps@@scalebox\@@scalebox
20239

```

## 134 File quotchap-xetex-bidi.def

```

20240 \ProvidesFile{quotchap-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for quotchap package]
20241 \renewcommand{\qauthor}[1]{%
20242   \par\smallskip
20243   {\if@RTL\raggedright\else\raggedleft\fi\upshape #1\quad\hbox{}\par}\bigskip}
20244 \renewcommand{\@makechapterhead}[1]{\chapterheadstartvskip%
20245   {\size@chapter{\sectfont\if@RTL\raggedright\else\raggedleft\fi
20246     {\chapnumfont
20247       \ifnum \c@secnumdepth >\m@ne%
20248         \if@mainmatter\thechapter%
20249         \fi\fi
20250         \par\nobreak}%
20251     {\if@RTL\raggedright\else\raggedleft\fi\advance\if@RTL\rightmargin\else\leftmargin\fi
20252     \nobreak\chapterheadendvskip}}}
20253 \renewcommand*{\@iprintcites}{%
20254   \vbox to\z@\{\leavevmode\copy\@quotebox\vss}
20255   \global\let\@printcites\relax}

```

## 135 File ragged2e-xetex-bidi.def

```

20256 \ProvidesFile{ragged2e-xetex-bidi.def}[2018/10/17 v0.3 bidi adaptations for ragged2e package]
20257 \renewcommand{\Centering}{%
20258   \ifx\\ \@raggedtwo@savedcr
20259     \let\\ @centercr
20260   \fi
20261   \let@gnewline\@raggedtwo@gnewline
20262   \if@RTL\rightskip\else\leftskip\fi\CenteringLeftskip
20263   \@rightskip\CenteringRightskip
20264   \if@RTL\leftskip\else\rightskip\fi\@rightskip
20265   \parfillskip\CenteringParfillskip
20266   \parindent\CenteringParindent
20267   \@raggedtwo@spaceskiptrue
20268   \@raggedtwo@everyselectfont
20269 }
20270 \renewcommand{\RaggedLeft}{%
20271   \ifx\\ \@raggedtwo@savedcr
20272     \let\\ @centercr
20273   \fi

```



```

20274 \let@gnewline@raggedtwo@gnewline
20275 \if@RTL\rightrightskip\else\leftskip\fi\RaggedLeftLeftskip
20276 \@rightskip\RaggedLeftRightskip
20277 \if@RTL\leftskip\else\rightrightskip\fi@rightskip
20278 \parfillskip\RaggedLeftParfillskip
20279 \parindent\RaggedLeftParindent
20280 \@raggedtwo@spaceskiptrue
20281 \@raggedtwo@everyselectfont
20282 }
20283 \renewcommand{\RaggedRight}{%
20284 \ifx\\@raggedtwo@savedcr
20285 \let\\@centercr
20286 \fi
20287 \let@gnewline@raggedtwo@gnewline
20288 \if@RTL\rightrightskip\else\leftskip\fi\RaggedRightLeftskip
20289 \@rightskip\RaggedRightRightskip
20290 \if@RTL\leftskip\else\rightrightskip\fi@rightskip
20291 \parfillskip\RaggedRightParfillskip
20292 \parindent\RaggedRightParindent
20293 \@raggedtwo@spaceskiptrue
20294 \@raggedtwo@everyselectfont
20295 }
20296 \renewcommand{\justifying}{%
20297 \let\\@raggedtwo@savedcr
20298 \let@gnewline@raggedtwo@saved@gnewline
20299 \if@RTL\rightrightskip\else\leftskip\fi\z@
20300 \@rightskip\z@
20301 \if@RTL\leftskip\else\rightrightskip\fi@rightskip
20302 \parfillskip\JustifyingParfillskip
20303 \parindent\JustifyingParindent
20304 \@raggedtwo@spaceskipfalse
20305 \@raggedtwo@everyselectfont
20306 }
20307 \def@raggedtwo@raggedrightboxes@opt{%
20308 \renewcommand{\arrayparboxrestore}{%
20309 \let@if@nobreak@iffalse
20310 \let@if@noskipsec@iffalse
20311 \let\par\@par
20312 \let\-\@dischyph
20313 \let'\@acci\let\`@accii\let\=@acciii
20314 \parskip\z@skip
20315 \everypar{}%
20316 \linewidth\hsize
20317 \@totalleftmargin\z@
20318 \if@RTL
20319 \RaggedLeft
20320 \else
20321 \RaggedRight
20322 \fi
20323 \lineskip\normallineskip
20324 \baselineskip\normalbaselineskip
20325 \sloppy}%
20326 \let@raggedtwo@raggedrightboxes@opt\relax
20327 }

```



```

20328 \def\@raggedtwo@document@opt{%
20329 \AtBeginDocument{\@raggedtwo@abdhook}%
20330 \@raggedtwo@raggedrightboxes@opt
20331 \@raggedtwo@footmisc>true
20332 \let\@raggedtwo@document@opt\relax
20333 }
20334 \def\@raggedtwo@abdhook{%
20335 \PackageInfo{ragged2e}{ABD: executing '\string\RaggedLeft' for
20336 right to left documents and '\string\RaggedRight' for left
20337 to right documents}%
20338 \if@RTL
20339 \RaggedLeft
20340 \else
20341 \RaggedRight
20342 \fi
20343 \@ifundefined{@tocrmarg}{\edef\tocrmarg{\tocrmarg plus 2em}}%
20344 \let\@raggedtwo@abdhook\relax
20345 }
20346 \@ifpackagewith{ragged2e}{raggedrightboxes}{%
20347 \@raggedtwo@raggedrightboxes@opt
20348 }{}
20349 \@ifpackagewith{ragged2e}{document}{%
20350 \@raggedtwo@document@opt
20351 }{}
20352 \let\origin@RaggedLeft=\RaggedLeft
20353 \let\origin@RaggedRight=\RaggedRight
20354 \def\RaggedLeft{\if@RTL\origin@RaggedRight\else\origin@RaggedLeft\fi}
20355 \def\RaggedRight{\if@RTL\origin@RaggedLeft\else\origin@RaggedRight\fi}

```

## 136 File rapport1-xetex-bidi.def

```

20356 \ProvidesFile{rapport1-xetex-bidi.def}[2017/06/09 v0.4 bidi adaptations for rapport1 class f
20357 \renewenvironment{theindex}{%
20358 \if@twocolumn
20359 \@restonecolfalse
20360 \else
20361 \@restonecoltrue
20362 \fi
20363 \columnseprule \z@
20364 \columnsep 35\p@
20365 \twocolumn[\@makeschapterhead{\indexname}]%
20366 \mkboth{\MakeUppercase{\indexname}}{\MakeUppercase{\indexname}}%
20367 \thispagestyle{plain}\parindent\z@
20368 \parskip\z@ \@plus .3\p@\relax
20369 \let\item\@idxitem
20370 }{%
20371 \if@restonecol\onecolumn\else\clearpage\fi}
20372 \renewcommand*{head@style}{%
20373 \interlinepenalty \@M
20374 \hyphenpenalty=\@M \exhyphenpenalty=\@M
20375 \if@RTL\leftskip\else\rightskip\fi=0cm plus .7\hsizelax}
20376 \if@titlepage
20377 \renewenvironment{abstract}{%
20378 \titlepage

```



```

20379     \null\vfil
20380     \section*{\SectFont\abstractname}%
20381     \noindent\ignorespaces}
20382     {\par\vfil\null\endtitlepage}
20383 \else
20384 \renewenvironment{abstract}{%
20385     \if@twocolumn
20386     \section*{\abstractname}%
20387     \else
20388     \bgroup\if@RTL\leftskip\else\rightskip\fi=\unitindent
20389     \section*{\small\SectFont\abstractname}%
20390     \noindent\ignorespaces
20391     \fi}
20392     {\if@twocolumn\else\par\egroup\fi}
20393 \fi
20394 \renewcommand*\@regtocline[3]{%
20395     \ifnum #1>\c@tocdepth
20396     \else
20397     \vskip\z@\@plus.2\p@
20398     {\hangindent\z@ \@afterindenttrue \interlinepenalty\@M
20399     \if@RTL\rightskip\else\leftskip\fi\unitindent
20400     \if@RTL\leftskip\else\rightskip\fi\unitindent\@plus 1fil
20401     \parfillskip\z@
20402     \@tempdima\unitindent
20403     \parindent\z@
20404     \leavevmode
20405     \hbox{} \hskip -\if@RTL\rightskip\else\leftskip\fi\relax#2\nobreak
20406     \hskip 1em \nobreak{\slshape #3}\par
20407     }%
20408     \fi}
20409 \if@oldtoc
20410 \renewcommand*\l@part[2]{%
20411     \ifnum \c@tocdepth >-2\relax
20412     \addpenalty{-\@highpenalty}%
20413     \addvspace{2.25em \@plus\p@}%
20414     \begingroup
20415     \setlength\@tempdima{3em}%
20416     \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
20417     \parfillskip -\@pnumwidth
20418     {\leavevmode
20419     \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
20420     \nobreak
20421     \global\@nobreaktrue
20422     \everypar{\global\@nobreakfalse\everypar{}}%
20423     \endgroup
20424     \fi}
20425 \else
20426 \renewcommand*\l@part{%
20427     \ifnum \c@tocdepth >-2\relax
20428     \addpenalty{-\@highpenalty}%
20429     \addvspace{2.25em \@plus \p@}%
20430     \@regtocline{0}%
20431     \fi}
20432 \fi

```



```

20433 \if@oldtoc
20434 \renewcommand*\l@chapter[2]{%
20435   \addpenalty{-\@highpenalty}%
20436   \vskip 1.0em \@plus\p@
20437   \setlength\@tempdima{1.5em}%
20438   \begingroup
20439   \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
20440   \parfillskip -\@pnumwidth
20441   \leavevmode \bfseries
20442   \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
20443   \hskip -\if@RTL\rightskip\else\leftskip\fi
20444   #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
20445   \penalty\@highpenalty
20446   \endgroup}
20447 \else
20448   \renewcommand*\l@chapter{\@regtocline{0}}
20449 \fi
20450 \renewcommand*\left@footnoterule{%
20451   \kern-3\p@
20452   \kern.5\baselineskip
20453   \hrule\@width\unitindent
20454   \kern.4\baselineskip
20455 }
20456 \renewcommand*\right@footnoterule{%
20457   \kern-3\p@
20458   \kern.5\baselineskip
20459   \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\unitindent\relax \hrulefill }
20460   \kern.4\baselineskip}
20461 \renewenvironment{thebibliography}[1]
20462   {\chapter*{\bibname}%
20463     \mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}%
20464     \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
20465     \bidi@thebibliography@font@hook%
20466     \list{\@biblabel{\@arabic\c@enumiv}}%
20467       {\settowidth\labelwidth{\@biblabel{#1}}%
20468         \leftmargin\labelwidth
20469         \advance\leftmargin\labelsep
20470         \@openbib@code
20471         \usecounter{enumiv}%
20472         \let\p@enumiv\@empty
20473         \renewcommand*\theenumiv{\@arabic\c@enumiv}}%
20474     \sloppy\clubpenalty4000\widowpenalty4000%
20475     \sfcode`. \@m}
20476   {\def\@noitemerr
20477     {\@latex@warning{Empty `thebibliography' environment}}%
20478     \endlist}
20479 \renewcommand*\thesection{\thechapter\@SepMark\@arabic\c@section}
20480 \renewcommand*\thesubsection{\thesection\@SepMark\@arabic\csubsection}
20481 \renewcommand*\thesubsubsection{\thesubsection\@SepMark\@arabic\csubsubsection}
20482 \renewcommand*\theparagraph{\thesubsubsection\@SepMark\@arabic\cparagraph}
20483 \renewcommand*\thesubparagraph{\theparagraph\@SepMark\@arabic\csubparagraph}
20484 \renewcommand*\theequation{%
20485   \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@equation}
20486 \renewcommand*\thefigure{%

```





```

20487 \ifnum\c@chapter>\z@\thechapter\@SepMark\fi\@arabic\c@figure}
20488 \renewcommand*\thetable{%
20489 \ifnum\c@chapter>\z@\thechapter\@SepMark\fi\@arabic\c@table}
20490 \if@titlepage
20491 \renewcommand*\TitleFont{\rmfamily}
20492 \renewcommand*\maketitle{%
20493 \begin{titlepage}%
20494 \let\footnotesize\small
20495 \let\right@footnoterule\relax
20496 \let\left@footnoterule\relax
20497 \let\textwidth@footnoterule\relax
20498 \let \footnote \thanks
20499 \long\def\@makefnmark##1{\parindent\z@
20500 \def\labelitemi{\textendash}\@revlabeltrue
20501 \leavevmode\@textsuperscript{\@thefnmark}\kern1em\relax ##1}
20502 \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
20503 \if@compatibility\setcounter{page}{0}\fi
20504 \null\vfil
20505 \vskip 60\p@
20506 \begin{center}%
20507 \TitleFont
20508 {\LARGE \def\{\penalty -\@M}
20509 \if@allcaps
20510 \expandafter\uc@nothanks\@title\thanks\relax
20511 \else
20512 \@title
20513 \fi\par}%
20514 \vskip 3em%
20515 {\large
20516 \lineskip .75em \parindent\z@
20517 \begin{tabular}[t]{c}%
20518 \if@allcaps
20519 \expandafter\uc@authornothanks\@author\and\relax
20520 \else
20521 \@author
20522 \fi
20523 \end{tabular}\par}%
20524 \vskip 1.5em%
20525 {\large
20526 \if@allcaps
20527 \uppercase\expandafter{\@date}%
20528 \else
20529 \@date
20530 \fi\par}%
20531 \end{center}\par
20532 \@thanks
20533 \vfil\null
20534 \end{titlepage}%
20535 \setcounter{footnote}{0}%
20536 \global\let\thanks\relax
20537 \global\let\maketitle\relax
20538 \global\let\@thanks\@empty
20539 \global\let\@author\@empty
20540 \global\let\@title\@empty

```



```

20541 \global\let\@date\@empty
20542 \global\let\title\relax
20543 \global\let\author\relax
20544 \global\let\date\relax
20545 \global\let\and\relax
20546 }
20547 \def\uc@nothanks#1\thanks{\uppercase{#1}\futurelet\@tempa\uc@tx}
20548 \def\uc@authornothanks#1\and{\uc@nothanks#1\thanks\relax
20549 \futurelet\@tempa\uc@ax}
20550 \def\uc@ax{%
20551 \ifx\@tempa\relax
20552 \else
20553 \ \andname \ \expandafter\uc@authornothanks
20554 \fi}
20555 \def\uc@tx{\ifx\@tempa\relax
20556 \else \expandafter\uc@ty \fi}
20557 \def\uc@ty#1{\thanks{#1}\uc@nothanks}
20558 \else
20559 \renewcommand*\maketitle{\par
20560 \begingroup
20561 \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
20562 \def\@makefnmark{\rlap{%
20563 \@textsuperscript{\normalfont\@thefnmark}}}%
20564 \long\def\@makefntext{\@xmakefntext{%
20565 \@textsuperscript{\normalfont\@thefnmark}}}%
20566 \if@twocolumn
20567 \ifnum \col@number=\@ne
20568 \@maketitle
20569 \else
20570 \twocolumn[\@maketitle]%
20571 \fi
20572 \else
20573 \newpage
20574 \global\@topnum\z@
20575 \@maketitle
20576 \fi
20577 \thispagestyle{plain}\@thanks
20578 \endgroup
20579 \setcounter{footnote}{0}%
20580 \global\let\thanks\relax
20581 \global\let\maketitle\relax
20582 \global\let\@maketitle\relax
20583 \global\let\@thanks\@empty
20584 \global\let\@author\@empty
20585 \global\let\@title\@empty
20586 \global\let\@date\@empty
20587 \global\let\title\relax
20588 \global\let\author\relax
20589 \global\let\date\relax
20590 \global\let\and\relax
20591 }
20592 \def\@maketitle{%
20593 \newpage
20594 \null

```



```

20595 \vskip 2em%
20596 \begin{center}%
20597   \let \footnote \thanks
20598   {\LARGE \TitleFont \@title \par}%
20599   \vskip 1.5em%
20600   {\large \TitleFont
20601     \lineskip .5em%
20602     \begin{tabular}[t]{c}%
20603       \@author
20604     \end{tabular}\par}%
20605   \vskip 1em%
20606   {\large \TitleFont \@date}%
20607 \end{center}%
20608 \par
20609 \vskip 1.5em}
20610 \fi

```

## 137 File rapport3-xetex-bidi.def

```

20611 \ProvidesFile{rapport3-xetex-bidi.def}[2017/06/09 v0.6 bidi adaptations for rapport3 class f
20612 \renewenvironment{theindex}{%
20613   \if@twocolumn
20614     \@restonecolfalse
20615   \else
20616     \@restonecoltrue
20617   \fi
20618   \columnseprule \z@
20619   \columnsep 35\p@
20620   \twocolumn[\@makeschapterhead{\indexname}]%
20621   \@mkboth{\MakeUppercase{\indexname}}{\MakeUppercase{\indexname}}%
20622   \thispagestyle{plain}\parindent\z@
20623   \parskip\z@ \@plus .3\p@\relax
20624   \let\item\@idxitem
20625   }{%
20626   \if@restonecol\onecolumn\else\clearpage\fi}
20627 \if@titlepage
20628 \renewcommand*\TitleFont{\rmfamily}
20629 \renewcommand*\maketitle{%
20630 \begin{titlepage}%
20631   \let\footnotesize\small
20632   \let\right@footnoterule\relax
20633   \let\left@footnoterule\relax
20634   \let\textwidth@footnoterule\relax
20635   \let \footnote \thanks
20636   \let \LTRfootnote \LTRthanks
20637   \let \RTLfootnote \RTLthanks
20638   \long\def\@makefnitem##1{\parindent\z@
20639     \def\labelitemi{\textendash}\@revelabeltrue
20640     \leavevmode\@textsuperscript{\@thefnmark}\kern1em\relax ##1}
20641   \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
20642   \if@compatibility\setcounter{page}{0}\fi
20643   \null\vfil
20644   \vskip 60\p@
20645   \begin{center}%

```



```

20646 \TitleFont
20647 {\LARGE \def\{\{\penalty -\@M}
20648 \if@allcaps
20649 \expandafter\uc@nothanks\@title\thanks\relax
20650 \else
20651 \@title
20652 \fi\par}%
20653 \vskip 3em%
20654 {\large
20655 \lineskip .75em \parindent\z@
20656 \begin{tabular}[t]{c}%
20657 \if@allcaps
20658 \expandafter\uc@authornothanks\@author\and\relax
20659 \else
20660 \@author
20661 \fi
20662 \end{tabular}\par}%
20663 \vskip 1.5em%
20664 {\large
20665 \if@allcaps
20666 \uppercase\expandafter{\@date}%
20667 \else
20668 \@date
20669 \fi\par}%
20670 \end{center}\par
20671 \@thanks
20672 \vfil\null
20673 \end{titlepage}%
20674 \setcounter{footnote}{0}%
20675 \global\let\thanks\relax
20676 \global\let\LTRthanks\relax
20677 \global\let\RTLthanks\relax
20678 \global\let\maketitle\relax
20679 \global\let\@thanks\@empty
20680 \global\let\@author\@empty
20681 \global\let\@title\@empty
20682 \global\let\@date\@empty
20683 \global\let\title\relax
20684 \global\let\author\relax
20685 \global\let\date\relax
20686 \global\let\and\relax
20687 }
20688 \def\uc@nothanks#1\thanks{\uppercase{#1}\futurelet\@tempa\uc@tx}
20689 \def\uc@authornothanks#1\and{\uc@nothanks#1\thanks\relax
20690 \futurelet\@tempa\uc@ax}
20691 \def\uc@ax{%
20692 \ifx\@tempa\relax
20693 \else
20694 \ \andname \ \ \expandafter\uc@authornothanks
20695 \fi}
20696 \def\uc@tx{\ifx\@tempa\relax
20697 \else \expandafter\uc@ty \fi}
20698 \def\uc@ty#1{\thanks{#1}\uc@nothanks}
20699 \else

```



```

20700 \renewcommand*\maketitle{\par
20701 \begin{group
20702   \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
20703   \def\@makefnmark{\rlap{%
20704     \@textsuperscript{\normalfont\@thefnmark}}}%
20705   \long\def\@makefntext{\@xmakefntext{%
20706     \@textsuperscript{\normalfont\@thefnmark}}}%
20707   \if@twocolumn
20708     \ifnum \col@number=\@one
20709       \maketitle
20710     \else
20711       \twocolumn[\maketitle]%
20712     \fi
20713   \else
20714     \newpage
20715     \global\@topnum\z@
20716     \maketitle
20717   \fi
20718   \thispagestyle{plain}\@thanks
20719 \end{group
20720 \setcounter{footnote}{0}%
20721 \global\let\thanks\relax
20722 \global\let\LTRthanks\relax
20723 \global\let\RTLthanks\relax
20724 \global\let\maketitle\relax
20725 \global\let\@maketitle\relax
20726 \global\let\@thanks\@empty
20727 \global\let\@author\@empty
20728 \global\let\@title\@empty
20729 \global\let\@date\@empty
20730 \global\let\title\relax
20731 \global\let\author\relax
20732 \global\let\date\relax
20733 \global\let\and\relax
20734 }
20735 \def\@maketitle{%
20736 \newpage
20737 \null
20738 \vskip 2em%
20739 \if@titlecentered
20740 \begin{center}%
20741   \let \footnote \thanks
20742   \let \LTRfootnote \LTRthanks
20743   \let \RTLfootnote \RTLthanks
20744   {\LARGE \TitleFont \@title \par}%
20745   \vskip 1.5em%
20746   {\large \TitleFont
20747     \lineskip .5em%
20748     \begin{tabular}[t]{c}%
20749       \@author
20750     \end{tabular}\par}%
20751   \vskip 1em%
20752   {\large \TitleFont \@date}%
20753 \end{center}%

```



```

20754 \else
20755   {\LARGE \TitleFont \head@style \@title \par} \vskip 1.5em
20756   {\large \TitleFont \lineskip .5em \tabcolsep\z@
20757     \def\and{%% \begin{tabular} has already started
20758       \end{tabular}\hskip 1em plus .17fil
20759       \ifRTL\begin{tabular}[t]{r}\else\begin{tabular}[t]{l}\fi}% \end{tabu
20760       \ifRTL\begin{tabular}[t]{r}\else\begin{tabular}[t]{l}\fi\@author\end{tabular}\
20761   \vskip 1em {\large \TitleFont \@date}
20762 \fi
20763 \par
20764 \vskip 1.5em}
20765 \fi
20766 \renewcommand*\@regtocline[3]{%
20767   \ifnum #1>\c@tocdepth
20768   \else
20769     \vskip\z@\@plus.2\p@
20770     {\hangindent\z@ \@afterindenttrue \interlinepenalty\@M
20771       \ifRTL\rightskip\else\leftskip\fi\unitindent
20772       \ifRTL\leftskip\else\rightskip\fi\unitindent\@plus 1fil
20773       \parfillskip\z@
20774       \@tempdima\unitindent
20775       \parindent\z@
20776       \leavevmode
20777       \hbox{ }\hskip -\ifRTL\rightskip\else\leftskip\fi\relax#2\nobreak
20778       \hskip 1em \nobreak{\slshape #3}\par
20779     }%
20780   \fi}
20781 \if@oldtoc
20782 \renewcommand*\l@part[2]{%
20783   \ifnum \c@tocdepth >-2\relax
20784     \addpenalty{-\@highpenalty}%
20785     \addvspace{2.25em \@plus\p@}%
20786     \begingroup
20787       \setlength\@tempdima{3em}%
20788       \parindent \z@ \ifRTL\leftskip\else\rightskip\fi \@pnumwidth
20789       \parfillskip -\@pnumwidth
20790       {\leavevmode
20791         \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
20792         \nobreak
20793         \global\@nobreaktrue
20794         \everypar{\global\@nobreakfalse\everypar{}}%
20795       \endgroup
20796   \fi}
20797 \else
20798   \renewcommand*\l@part{%
20799     \ifnum \c@tocdepth >-2\relax
20800       \addpenalty{-\@highpenalty}%
20801       \addvspace{2.25em \@plus\p@}%
20802       \@regtocline{0}%
20803     \fi}
20804 \fi
20805 \if@oldtoc
20806 \renewcommand*\l@chapter[2]{%
20807   \addpenalty{-\@highpenalty}%

```



```

20808 \vskip 1.0em \@plus\p@
20809 \setlength\@tempdima{1.5em}%
20810 \begingroup
20811 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
20812 \parfillskip -\@pnumwidth
20813 \leavevmode \bfseries
20814 \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
20815 \hskip -\if@RTL\rightskip\else\leftskip\fi
20816 #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
20817 \penalty\@highpenalty
20818 \endgroup}
20819 \else
20820 \renewcommand*\l@chapter{\@regtocline{0}}
20821 \fi
20822 \renewcommand*\head@style{%
20823 \interlinepenalty \@M
20824 \hyphenpenalty=\@M \exhyphenpenalty=\@M
20825 \if@RTL\leftskip\else\rightskip\fi=0cm plus .7\hsize\relax}
20826 \if@titlepage
20827 \renewenvironment{abstract}{%
20828 \titlepage
20829 \null\vfil
20830 \section*\SectFont\abstractname}%
20831 \noindent\ignorespaces}
20832 {\par\vfil\null\endtitlepage}
20833 \else
20834 \renewenvironment{abstract}{%
20835 \if@twocolumn
20836 \section*\abstractname}%
20837 \else
20838 \bgroup\if@RTL\leftskip\else\rightskip\fi=\unitindent
20839 \section*\small\SectFont\abstractname}%
20840 \noindent\ignorespaces
20841 \fi}
20842 {\if@twocolumn\else\par\egroup\fi}
20843 \fi
20844 \renewcommand*\thesection{\thechapter\@SepMark\@arabic\c@section}
20845 \renewcommand*\thesubsection{\thesection\@SepMark\@arabic\c@subsection}
20846 \renewcommand*\thesubsubsection{\thesubsection\@SepMark\@arabic\c@subsubsection}
20847 \renewcommand*\theparagraph{\thesubsubsection\@SepMark\@arabic\c@paragraph}
20848 \renewcommand*\thesubparagraph{\theparagraph\@SepMark\@arabic\c@subparagraph}
20849 \renewcommand*\thefigure{%
20850 \ifnum\c@chapter>\z@\thechapter\@SepMark\fi\@arabic\c@figure}
20851 \renewcommand*\thetable{%
20852 \ifnum\c@chapter>\z@\thechapter\@SepMark\fi\@arabic\c@table}
20853 \renewcommand*\theequation{%
20854 \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@equation}
20855 \renewenvironment{thebibliography}[1]
20856 {\chapter*\bibname}%
20857 \mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}%
20858 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
20859 \bidi@thebibliography@font@hook%
20860 \list{\@biblabel{\@arabic\c@enumiv}}%
20861 {\settowidth\labelwidth{\@biblabel{#1}}%

```



```

20862         \leftmargin\labelwidth
20863         \advance\leftmargin\labelsep
20864         \@openbib@code
20865         \usecounter{enumiv}%
20866         \let\p@enumiv\@empty
20867         \renewcommand*\theenumiv{\@arabic\c@enumiv}}%
20868     \sloppy\clubpenalty4000\widowpenalty4000%
20869     \sfcode`.\@m}
20870     {\def\@noitemerr
20871       {\@latex@warning{Empty `thebibliography' environment}}}%
20872     \endlist}
20873 \renewcommand*\left@footnoterule{%
20874   \kern-3\p@
20875   \kern.5\baselineskip
20876   \hrule\@width\unitindent
20877   \kern.4\baselineskip
20878 }
20879 \renewcommand*\right@footnoterule{%
20880   \kern-3\p@
20881   \kern.5\baselineskip
20882   \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\unitindent\relax \hrulefill }
20883   \kern.4\baselineskip}
20884 \renewcommand*\head@style{%
20885   \interlinepenalty \@M
20886   \hyphenpenalty=\@M \exhyphenpenalty=\@M
20887   \if@RTL\leftskip\else\rightskip\fi=0cm plus .7\hsize\relax}

```

## 138 File refrep-xetex-bidi.def

```

20888 \ProvidesFile{refrep-xetex-bidi.def}[2017/06/09 v0.5 bidi adaptations for refrep class for X
20889 \if@titlepage
20890   \renewcommand\maketitle{\begin{titlepage}%
20891     \let\footnotesize\small
20892     \let\right@footnoterule\relax
20893     \let\left@footnoterule\relax
20894     \let\textwidth@footnoterule\relax
20895     \let\footnote\thanks
20896     \let\LTRfootnote\LTRthanks
20897     \let\RTLfootnote\RTLthanks
20898     \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
20899     \def\@makefnmark%
20900       {\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
20901     \long\def\@makefntext##1{%
20902       \setpar{\@par
20903         \@tempdima = \hsize
20904         \advance\@tempdima -1em
20905         \parshape \@ne 1em \@tempdima}%
20906       \par\parindent 1em \noindent
20907       \hb@xt@\z@{\hss\@textsuperscript{\normalfont\@thefnmark}\,}##1}
20908     \null\vfil
20909     \vskip 60\p@
20910     \begin{center}%
20911       {\LARGE \@title \par}%
20912       \vskip 3em%

```





```

20913     {\large
20914       \lineskip .75em%
20915       \begin{tabular}[t]{c}%
20916         \@author
20917       \end{tabular}\par}%
20918       \vskip 1.5em%
20919     {\large \@date \par}%           % Set date in \large size.
20920 \end{center}\par
20921 \@thanks
20922 \vfil\null
20923 \end{titlepage}%
20924 \setcounter{footnote}{0}%
20925 \global\let\thanks\relax
20926 \global\let\LTRthanks\relax
20927 \global\let\RTLthanks\relax
20928 \global\let\maketitle\relax
20929 \global\let\@thanks\@empty
20930 \global\let\@author\@empty
20931 \global\let\@date\@empty
20932 \global\let\@title\@empty
20933 \global\let\title\relax
20934 \global\let\author\relax
20935 \global\let\date\relax
20936 \global\let\and\relax
20937 }
20938 \else
20939 \renewcommand\maketitle{\par
20940   \begingroup
20941     \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
20942     \def\@makefnmark%
20943       {\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
20944     \long\def\@makefntext##1{%
20945       \setpar{\@par
20946         \@tempdima = \hsize
20947         \advance\@tempdima -1em
20948         \parshape \@ne 1em \@tempdima}%
20949       \par\parindent 1em \noindent
20950       \hb@xt@\z@\{\hss\@textsuperscript{\normalfont\@thefnmark}\,}##1}
20951     \if@twocolumn
20952       \ifnum \col@number=\@ne
20953         \@maketitle
20954       \else
20955         \twocolumn[\@maketitle]%
20956       \fi
20957     \else
20958       \newpage
20959       \global\@topnum\z@ % Prevents figures from going at top of page.
20960       \@maketitle
20961     \fi
20962     \thispagestyle{empty}\@thanks
20963   \endgroup
20964   \setcounter{footnote}{0}%
20965   \global\let\thanks\relax
20966   \global\let\LTRthanks\relax

```



```

20967 \global\let\RTLthanks\relax
20968 \global\let\maketitle\relax
20969 \global\let\@maketitle\relax
20970 \global\let\@thanks\@empty
20971 \global\let\@author\@empty
20972 \global\let\@date\@empty
20973 \global\let\@title\@empty
20974 \global\let\title\relax
20975 \global\let\author\relax
20976 \global\let\date\relax
20977 \global\let\and\relax
20978 }
20979 \def\@maketitle{%
20980   \newpage
20981   \null
20982   \longthickrule\vskip1.5em%
20983   \let \footnote \thanks
20984   \let \LTRfootnote \LTRthanks
20985   \let \RTLfootnote \RTLthanks
20986   {\secshape \parskip\z@ \parindent\z@
20987   \Large\bfseries \@title \par}%
20988   \vskip1.5em\longthickrule\vskip1.5em%
20989   {\normalsize
20990     \lineskip .5em%
20991     \begin{flushright}%
20992       {\slshape\@author\par}
20993       \vskip 1em%
20994       {\@date}%
20995     \end{flushright}\par}%
20996   \vskip 1.5em}
20997 \fi
20998 \renewcommand*\l@part[2]{%
20999   \ifnum \c@tocdepth >-2\relax
21000     \addpenalty{-\@highpenalty}%
21001     \addvspace{2.25em \@plus\p}%
21002     \begingroup
21003       \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
21004       \parfillskip -\@pnumwidth
21005       {\leavevmode
21006         \large \bfseries #1\hfil \hbox to\@pnumwidth{\hss #2}}\par
21007         \nobreak
21008         \global\@nobreaktrue
21009         \everypar{\global\@nobreakfalse\everypar{}}%
21010       \endgroup
21011   \fi}
21012 \renewcommand*\l@chapter[2]{%
21013   \ifnum \c@tocdepth >\m@ne
21014     \addpenalty{-\@highpenalty}%
21015     \vskip 1.0em \@plus\p@
21016     \setlength\@tempdima{1.5em}%
21017     \begingroup
21018       \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
21019       \parfillskip -\@pnumwidth
21020     \leavevmode \bfseries

```



```

21021 \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
21022 \hskip -\if@RTL\rightskip\else\leftskip\fi
21023 #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
21024 \penalty\@highpenalty
21025 \endgroup
21026 \fi}
21027 \renewcommand\secshape{\if@RTL\rightskip\else\leftskip\fi=-\leftmarginwidth%
21028 \if@RTL\leftskip\else\rightskip\fi=\@flushglue%
21029 \hyphenpenalty=2000}
21030 \renewcommand\left@footnoterule{%
21031 \kern-3\p@
21032 \hrule\@width.4\columnwidth
21033 \kern 2.6\p@}
21034 \renewcommand\right@footnoterule{%
21035 \kern-3\p@
21036 \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
21037 \kern2.6\p@}
21038 \renewcommand\theequation
21039 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@equation}
21040 \renewcommand\thefigure
21041 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@figure}
21042 \renewcommand\thetable%
21043 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@table}
21044 \renewcommand\thesection {\thechapter\@SepMark\@arabic\c@section}
21045 \renewcommand\thesubsection {\thesection\@SepMark\@arabic\c@subsection}
21046 \renewcommand\thesubsubsection {\thesubsection \@SepMark\@arabic\c@subsubsection}
21047 \renewcommand\theparagraph {\thesubsubsection\@SepMark\@arabic\c@paragraph}
21048 \renewcommand\thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}
21049 \renewenvironment{thebibliography}[1]
21050 {\chapter*{\bibname
21051 \mkboth{\bibname}{\bibname}}%
21052 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
21053 \bidi\@thebibliography\font\hook%
21054 \list{\@biblabel{\@arabic\c@enumiv}}%
21055 {\settowidth\labelwidth{\@biblabel{#1}}%
21056 \leftmargin\labelwidth
21057 \advance\leftmargin\labelsep
21058 \@openbib@code
21059 \usecounter{enumiv}%
21060 \let\p@enumiv\@empty
21061 \renewcommand\theenumiv{\@arabic\c@enumiv}}%
21062 \sloppy
21063 \clubpenalty4000
21064 \@clubpenalty \clubpenalty
21065 \widowpenalty4000%
21066 \sfcode`\.=\@m}
21067 {\def\@noitemerr
21068 {\@latex@warning{Empty `thebibliography' environment}}}%
21069 \endlist}

```

## 139 File report-xetex-bidi.def

```

21070 \ProvidesFile{report-xetex-bidi.def}[2017/06/09 v0.8 bidi adaptations for standard report cl
21071 \renewenvironment{theindex}

```



```

21072             {\if@twocolumn
21073                 \@restonecolfalse
21074                 \else
21075                     \@restonecoltrue
21076                 \fi
21077                 \columnseprule \z@
21078                 \columnsep 35\p@
21079                 \twocolumn[\@makeschapterhead{\indexname}]%
21080                 \@mkboth{\MakeUppercase\indexname}%
21081                     {\MakeUppercase\indexname}%
21082                 \thispagestyle{plain}\parindent\z@
21083                 \parskip\z@ \@plus .3\p@\relax
21084                 \let\item\@idxitem}
21085             {\if@restonecol\onecolumn\else\clearpage\fi}
21086 \if@titlepage
21087 \renewcommand\maketitle{\begin{titlepage}%
21088 \let\footnotesize\small
21089 \let\right@footnoterule\relax
21090 \let\left@footnoterule\relax
21091 \let\textwidth@footnoterule\relax
21092 \let \footnote \thanks
21093 \let \LTRfootnote \LTRthanks
21094 \let \RTLfootnote \RTLthanks
21095 \null\vfil
21096 \vskip 60\p@
21097 \begin{center}%
21098     {\LARGE \@title \par}%
21099     \vskip 3em%
21100     {\large
21101         \lineskip .75em%
21102         \begin{tabular}[t]{c}%
21103             \@author
21104             \end{tabular}\par}%
21105     \vskip 1.5em%
21106     {\large \@date \par}%           % Set date in \large size.
21107 \end{center}\par
21108 \@thanks
21109 \vfil\null
21110 \end{titlepage}%
21111 \setcounter{footnote}{0}%
21112 \global\let\thanks\relax
21113 \global\let\LTRthanks\relax
21114 \global\let\RTLthanks\relax
21115 \global\let\maketitle\relax
21116 \global\let\@thanks\@empty
21117 \global\let\@author\@empty
21118 \global\let\@date\@empty
21119 \global\let\@title\@empty
21120 \global\let\title\relax
21121 \global\let\author\relax
21122 \global\let\date\relax
21123 \global\let\and\relax
21124 }
21125 \else

```



```

21126 \renewcommand\maketitle{\par
21127 \begingroup
21128 \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
21129 \def\@makefnmark{\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
21130 \long\def\@makefntext##1{\parindent 1em\noindent
21131 \hb@xt@1.8em{%
21132 \hss\@textsuperscript{\normalfont\@thefnmark}}##1}%
21133 \if@twocolumn
21134 \ifnum \col@number=\@ne
21135 \@maketitle
21136 \else
21137 \twocolumn[\@maketitle]%
21138 \fi
21139 \else
21140 \newpage
21141 \global\@topnum\z@ % Prevents figures from going at top of page.
21142 \@maketitle
21143 \fi
21144 \thispagestyle{plain}\@thanks
21145 \endgroup
21146 \setcounter{footnote}{0}%
21147 \global\let\thanks\relax
21148 \global\let\LTRthanks\relax
21149 \global\let\RTLthanks\relax
21150 \global\let\maketitle\relax
21151 \global\let\@maketitle\relax
21152 \global\let\@thanks\@empty
21153 \global\let\@author\@empty
21154 \global\let\@date\@empty
21155 \global\let\@title\@empty
21156 \global\let\title\relax
21157 \global\let\author\relax
21158 \global\let\date\relax
21159 \global\let\and\relax
21160 }
21161 \def\@maketitle{%
21162 \newpage
21163 \null
21164 \vskip 2em%
21165 \begin{center}%
21166 \let \footnote \thanks
21167 \let \LTRfootnote \LTRthanks
21168 \let \RTLfootnote \RTLthanks
21169 {\LARGE \@title \par}%
21170 \vskip 1.5em%
21171 {\large
21172 \lineskip .5em%
21173 \begin{tabular}[t]{c}%
21174 \@author
21175 \end{tabular}\par}%
21176 \vskip 1em%
21177 {\large \@date}%
21178 \end{center}%
21179 \par

```



```

21180 \vskip 1.5em}
21181 \fi
21182 \renewcommand*\l@part[2]{%
21183   \ifnum \c@tocdepth >-2\relax
21184     \addpenalty{-\@highpenalty}%
21185     \addvspace{2.25em \@plus\p@}%
21186     \setlength\@tempdima{3em}%
21187     \begingroup
21188       \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
21189       \parfillskip -\@pnumwidth
21190       {\leavevmode
21191         \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
21192         \nobreak
21193         \global\@nobreaktrue
21194         \everypar{\global\@nobreakfalse\everypar{}}%
21195     \endgroup
21196 \fi}
21197 \renewcommand*\l@chapter[2]{%
21198   \ifnum \c@tocdepth >\m@ne
21199     \addpenalty{-\@highpenalty}%
21200     \vskip 1.0em \@plus\p@
21201     \setlength\@tempdima{1.5em}%
21202     \begingroup
21203       \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
21204       \parfillskip -\@pnumwidth
21205       \leavevmode \bfseries
21206       \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
21207       \hskip -\if@RTL\rightskip\else\leftskip\fi
21208       #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
21209       \penalty\@highpenalty
21210     \endgroup
21211 \fi}
21212 \renewcommand\left@footnoterule{%
21213   \kern-3\p@
21214   \hrule\@width.4\columnwidth
21215   \kern2.6\p@}
21216 \renewcommand\right@footnoterule{%
21217   \kern-3\p@
21218   \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
21219   \kern2.6\p@}
21220 \renewcommand\theequation
21221   {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@equation}
21222 \renewcommand \thefigure
21223   {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@figure}
21224 \renewcommand \thetable
21225   {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@table}
21226 \renewcommand \thechapter {\@arabic\c@chapter}
21227 \renewcommand \thesection {\thechapter\@SepMark\@arabic\c@section}
21228 \renewcommand \thesubsection {\thesection\@SepMark\@arabic\c@subsection}
21229 \renewcommand \thesubsubsection{\thesubsection \@SepMark\@arabic\c@subsubsection}
21230 \renewcommand \theparagraph {\thesubsubsection\@SepMark\@arabic\c@paragraph}
21231 \renewcommand \thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}
21232 \def\@makechapterhead#1{%
21233   \vspace*{50\p@}%

```



```

21234 {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi \normalfont
21235   \ifnum \c@secnumdepth >\m@ne
21236     \huge\bfseries \@chapapp\space \thechapter
21237     \par\nobreak
21238     \vskip 20\p@
21239   \fi
21240   \interlinepenalty\@M
21241   \Huge \bfseries #1\par\nobreak
21242   \vskip 40\p@
21243 }}
21244 \def\@makeschapterhead#1{%
21245   \vspace*{50\p@}%
21246   {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi
21247     \normalfont
21248     \interlinepenalty\@M
21249     \Huge \bfseries #1\par\nobreak
21250     \vskip 40\p@
21251   }}
21252 \renewenvironment{thebibliography}[1]
21253   {\chapter*{\bibname}%
21254     \@mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}%
21255     \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
21256     \bidi@thebibliography@font@hook%
21257     \list{\@biblabel{\@arabic\c@enumiv}}%
21258       {\settowidth\labelwidth{\@biblabel{#1}}%
21259         \leftmargin\labelwidth
21260         \advance\leftmargin\labelsep
21261         \@openbib@code
21262         \usecounter{enumiv}%
21263         \let\p@enumiv\@empty
21264         \renewcommand\theenumiv{\@arabic\c@enumiv}}%
21265     \sloppy
21266     \clubpenalty4000
21267     \@clubpenalty \clubpenalty
21268     \widowpenalty4000%
21269     \sfcode`..\@m}
21270 {\def\@noitemerr
21271   {\@latex@warning{Empty `thebibliography' environment}}}%
21272   \endlist}

```

## 140 File rotating-xetex-bidi.def

```

21273 \ProvidesFile{rotating-xetex-bidi.def}[2013/05/22 v0.2 bidi adaptations for rotating package]
21274 \def\end@rotfloat{%
21275   \end{minipage}\end{lrbox}%
21276   \stepcounter{r@tfl@t}%
21277   \rot@label{RF\ther@tfl@t}%
21278   \rot@pageref{RF\ther@tfl@t}{\R@page}%
21279   \edef\@tempa{Adding sideways \@capttype\space on page \R@page\space}
21280   \rot@mess@toks\expandafter{\@tempa}
21281   \wd\rot@float@box\z@
21282   \ht\rot@float@box\z@
21283   \dp\rot@float@box\z@
21284   \vboxL to \textheight{%

```



```

21285 \setkeys{Grot}{units=360}%
21286 \if@rot@twoside
21287 \else
21288 \let\R@@page\rot@LR
21289 \fi
21290 \ifthenelse{\isodd{\R@@page}}{%
21291 \if@rot@twoside
21292 \rot@mess@toks\expandafter{\the\rot@mess@toks (right hand page)}%
21293 \fi
21294 \vfill
21295 \@@line{%
21296 \hskip\rotFPtop
21297 \rotatebox{90}{\box\rot@float@box}%
21298 \hskip\rotFPbot
21299 }%
21300 }{%
21301 \if@rot@twoside
21302 \rot@mess@toks\expandafter{\the\rot@mess@toks (left hand page)}%
21303 \fi
21304 \@@line{%
21305 \hskip\rotFPbot
21306 \rotatebox{-90}{\box\rot@float@box}%
21307 \hskip\rotFPtop
21308 }%
21309 \vfill
21310 }%
21311 \rot@message{\the\rot@mess@toks}
21312 }%
21313 \end@float
21314 }
21315 \let\endsidewaysfigure\end@rotfloat
21316 \let\endsidewaystable\end@rotfloat
21317 \def\end@rotdblfloat{%
21318 \end{minipage}\end{lrbox}%
21319 \stepcounter{r@tfl@t}%
21320 \rot@label{RF\ther@tfl@t}%
21321 \rot@pageref{RF\ther@tfl@t}{\R@@page}%
21322 \edef\@tempa{Adding sideways \capttype\space on page \R@@page\space}
21323 \rot@mess@toks\expandafter{\@tempa}
21324 \@tempdima\ht\rot@float@box
21325 \advance\@tempdima by \dp\rot@float@box
21326 \wd\rot@float@box\z@
21327 \ht\rot@float@box\z@
21328 \dp\rot@float@box\z@
21329 \vboxL to \textheight{%
21330 \setkeys{Grot}{units=360}%
21331 \if@rot@twoside
21332 \else
21333 \let\R@@page\rot@LR
21334 \fi
21335 \ifthenelse{\isodd{\R@@page}}{%
21336 \ifrot@messages
21337 \if@rot@twoside
21338 \rot@mess@toks\expandafter{\the\rot@mess@toks (right hand page)}%

```





```

21339 \fi
21340   \fi
21341   \vfill
21342   \@@line{%
21343     \hskip\rotFPtop
21344     \rotatebox{90}{\box\rot@float@box}%
21345     \hskip\rotFPbot
21346   }%
21347 }{%
21348   \ifrot@messages
21349   \if@rot@twoside
21350 \rot@mess@toks\expandafter{\the\rot@mess@toks (left hand page)}%
21351 \fi
21352   \fi%
21353   \@@line{%
21354     \hskip\rotFPbot
21355     \rotatebox{-90}{\box\rot@float@box}%
21356     \hskip\rotFPtop
21357   }%
21358   \vfill
21359 }%
21360 \rot@message{\the\rot@mess@toks}%
21361 }%
21362 \end@dblfloat
21363 }
21364 \def\turn#1{%
21365   \Grot@setangle{#1}%
21366   \setbox\z@\color@hbox\ifmmode\if@RTL\beginR\fi\else\if@RTL\beginR\fi\fi\ignorespaces}
21367 \def\endturn{%
21368   \ifmmode\if@RTL\endR\fi\else\if@RTL\endR\fi\fi
21369   \unskip\color@endbox
21370   \Grot@x\z@
21371   \Grot@y\z@
21372   \ifmmode\else\if@RTL\beginL\fi\fi\Grot@box\ifmmode\else\if@RTL\endL\fi\fi
21373 }
21374 \def\rotate#1{%
21375   \Grot@setangle{#1}%
21376   \setbox\z@\color@hbox\ifmmode\if@RTL\beginR\fi\else\if@RTL\beginR\fi\fi\ignorespaces}
21377 \def\endrotate{%
21378   \ifmmode\if@RTL\endR\fi\else\if@RTL\endR\fi\fi
21379   \unskip\color@endbox
21380   \Grot@x\z@
21381   \Grot@y\z@
21382   \wd0\z@\dp0\z@\ht0\z@
21383   \ifmmode\else\if@RTL\beginL\fi\fi\Grot@box\ifmmode\else\if@RTL\endL\fi\fi
21384 }
21385 \def\turnbox#1#2{%
21386   \Grot@setangle{#1}%
21387   \setbox\z@\hbox{\ifmmode\if@RTL\beginR\fi\else\if@RTL\beginR\fi\fi#2\ifmmode\if@RTL\endR\fi\fi}
21388   \Grot@x\z@\Grot@y\z@
21389   \wd0\z@\dp0\z@\ht0\z@
21390   \ifmmode\else\if@RTL\beginL\fi\fi\Grot@box\ifmmode\else\if@RTL\endL\fi\fi
21391 }
21392 \def\sideways{%

```



```

21393 \Grot@setangle{90}%
21394 \setbox\z@\color@hbox\ifmmode\if@RTL\beginR\fi\else\if@RTL\beginR\fi\fi\ignorespaces}
21395 \def\endsideways{%
21396 \ifmmode\if@RTL\endR\fi\else\if@RTL\endR\fi\fi
21397 \unskip\color@endbox
21398 \Grot@x\z@
21399 \Grot@y\z@
21400 \ifmmode\else\if@RTL\beginL\fi\fi\Grot@box\ifmmode\else\if@RTL\endL\fi\fi
21401 }

```

## 141 File `scrartcl-xetex-bidi.def`

```

21402 \ProvidesFile{scrartcl-xetex-bidi.def}[2022/05/27 v1.3 bidi adaptations for scrartcl class f
21403 \newcommand{\scr@saved@LTRfootnotetext}{}
21404 \newcommand{\scr@saved@RTLfootnotetext}{}
21405 \let\scr@saved@footnotetext\@footnotetext
21406 \let\scr@saved@LTRfootnotetext\@LTRfootnotetext
21407 \let\scr@saved@RTLfootnotetext\@RTLfootnotetext
21408 \renewcommand{\@footnotetext}[1]{%
21409 \scr@saved@footnotetext{#1}%
21410 \csname FN@mfb@prepare\endcsname
21411 }
21412 \renewcommand{\@LTRfootnotetext}[1]{%
21413 \scr@saved@LTRfootnotetext{#1}%
21414 \csname FN@mfb@prepare\endcsname
21415 }
21416 \renewcommand{\@RTLfootnotetext}[1]{%
21417 \scr@saved@RTLfootnotetext{#1}%
21418 \csname FN@mfb@prepare\endcsname
21419 }
21420 \renewcommand\deffootnote[4][1]{%
21421 \expandafter\ifnum\scr@v@is@ge{3.22}\relax
21422 \long\def\@makefntext##1{%
21423 \ExecuteDoHook{footnote/text/begin}%
21424 \raggedfootnote
21425 \if@RTL
21426 \rightskip
21427 \else
21428 \leftskip
21429 \fi
21430 #2
21431 \l@addto@macro\@trivlist{%
21432 \ifnum\@listdepth=\@ne
21433 \if@RTL
21434 \advance\rightmargin #2\relax
21435 \else
21436 \advance\leftmargin #2\relax
21437 \fi
21438 \fi
21439 }%
21440 \parindent #3\noindent
21441 \IfArgIsEmpty{#1}{}{%
21442 \hskip \dimexpr #1-#2\relax
21443 }%

```



```

21444     \ftn@font\hbox to \z@{\hss\@makefnmark}##1%
21445     \ExecuteDoHook{footnote/text/end}%
21446   }%
21447 \else
21448   \ClassInfo{\KOMAClassName}{%
21449     Using old \string\@makefnmark\space due to compatibility
21450     level\MessageBreak
21451     less than 3.22}%
21452 \long\def\@makefnmark##1{%
21453   \setlength{\@tempdimc}{#3}%
21454   \def\@tempa{#1}\ifx\@tempa\@empty
21455     \setpar{\@par
21456       \@tempdima = \hsize
21457       \addtolength{\@tempdima}{-#2}%
21458       \if@RTL
21459         \parshape \@ne \z@ \@tempdima
21460       \else
21461         \parshape \@ne #2 \@tempdima
21462       \fi}%
21463   \else
21464     \addtolength{\@tempdimc}{#2}%
21465     \addtolength{\@tempdimc}{-#1}%
21466     \setpar{\@par
21467       \@tempdima = \hsize
21468       \addtolength{\@tempdima}{-#1}%
21469       \@tempdimb = \hsize
21470       \addtolength{\@tempdimb}{-#2}%
21471       \if@RTL
21472         \parshape \tw@ \z@ \@tempdima \z@ \@tempdimb
21473       \else
21474         \parshape \tw@ #1 \@tempdima #2 \@tempdimb
21475       \fi
21476     }%
21477   \fi
21478   \par
21479   \parindent\@tempdimc\noindent
21480   \ftn@font\hbox to \z@{\hss\@makefnmark}##1%
21481 }%
21482 \fi
21483 \def\@makefnmark{\hbox{\ftn@font{#4}}}%
21484 }
21485 \deffootnote[1em]{1.5em}{1em}{\textsuperscript{\thefootnotemark}}
21486 \renewcommand*\left@footnoterule{%
21487   \normalsize\ftn@rule@test@values
21488   \kern-\dimexpr 2.6\p@+\ftn@rule@height\relax
21489   \ifx\@textbottom\relax\else\vskip \z@ \@plus.05fil\fi
21490   {\usekomafont{footnoterule}{%
21491     \hrule \@height\ftn@rule@height \@width\ftn@rule@width}}%
21492   \kern 2.6\p@}
21493 \renewcommand*\right@footnoterule{%
21494   \normalsize\ftn@rule@test@values
21495   \kern-\dimexpr 2.6\p@+\ftn@rule@height\relax
21496   \ifx\@textbottom\relax\else\vskip \z@ \@plus.05fil\fi
21497   {\usekomafont{footnoterule}{%

```



```

21498     \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\ftn@rule@width\relax \leavevmode\l
21499     \kern 2.6\p@}
21500 \renewcommand*\maketitle[1][1]{%
21501   \expandafter\ifnum \csname scr@v@3.12\endcsname>\scr@compatibility\relax
21502   \else
21503     \def\and{%
21504       \end{tabular}%
21505       \hskip 1em \@plus.17fil%
21506       \begin{tabular}[t]{c}%
21507     }%
21508 \fi
21509 \if@titlepage
21510   \begin{titlepage}
21511     \setcounter{page}{%
21512       #1%
21513     }%
21514   \if@titlepageiscoverpage
21515     \edef\tITLEPAGE@restore{%
21516       \noexpand\endgroup
21517       \noexpand\global\noexpand\@colht\the\@colht
21518       \noexpand\global\noexpand\@colroom\the\@colroom
21519       \noexpand\global\vsizethe\vsizethe
21520       \noexpand\global\noexpand\@titlepageiscoverpagefalse
21521       \noexpand\let\noexpand\tITLEPAGE@restore\noexpand\relax
21522     }%
21523     \begingroup
21524     \topmargin=\dimexpr \coverpagetopmargin-1in\relax
21525     \oddsidemargin=\dimexpr \coverpageleftmargin-1in\relax
21526     \evensidemargin=\dimexpr \coverpageleftmargin-1in\relax
21527     \textwidth=\dimexpr
21528     \paperwidth-\coverpageleftmargin-\coverpagerightmargin\relax
21529     \textheight=\dimexpr
21530     \paperheight-\coverpagetopmargin-\coverpagebottommargin\relax
21531     \headheight=0pt
21532     \headsep=0pt
21533     \footskip=\baselineskip
21534     \@colht=\textheight
21535     \@colroom=\textheight
21536     \vsizethe\textheight
21537     \columnwidth=\textwidth
21538     \hsizethe\columnwidth
21539     \linewidth=\hsizethe
21540   \else
21541     \let\tITLEPAGE@restore\relax
21542 \fi
21543 \let\footnotesize\small
21544 \let\right@footnoterule\relax
21545 \let\left@footnoterule\relax
21546 \let\textwidth@footnoterule\relax
21547 \let\footnote\thanks
21548 \let\LTRfootnote\LTRthanks
21549 \let\RTLfootnote\RTLthanks
21550 \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
21551 \let\@oldmakefnmark\@makefnmark

```



```

21552 \renewcommand*{\@makefnmark}{\rlap{\@oldmakefnmark}}%
21553 \ifx\@extratitle\@empty
21554 \ifx\@frontispiece\@empty
21555 \else
21556 \if@twoside\mbox{}\next@tpage\fi
21557 \noindent\@frontispiece\next@tdpage
21558 \fi
21559 \else
21560 \noindent\@extratitle
21561 \ifx\@frontispiece\@empty
21562 \else
21563 \next@tpage
21564 \noindent\@frontispiece
21565 \fi
21566 \next@tdpage
21567 \fi
21568 \setparsizes{\z@}{\z@}{\z@\@plus 1fil}\par@updaterelative
21569 \ifx\@titlehead\@empty \else
21570 \begin{minipage}[t]{\textwidth}%
21571 \usekomafont{titlehead}{\@titlehead\par}%
21572 \end{minipage}\par
21573 \fi
21574 \null\vfill
21575 \begin{center}
21576 \ifx\@subject\@empty \else
21577 {\usekomafont{subject}{\@subject\par}}%
21578 \vskip 3em
21579 \fi
21580 {\usekomafont{title}{\huge \@title\par}}%
21581 \vskip 1em
21582 {\ifx\@subtitle\@empty\else\usekomafont{subtitle}{\@subtitle\par}\fi}%
21583 \vskip 2em
21584 {%
21585 \usekomafont{author}{%
21586 \lineskip 0.75em
21587 \begin{tabular}[t]{c}
21588 \@author
21589 \end{tabular}\par
21590 }%
21591 }%
21592 \vskip 1.5em
21593 {\usekomafont{date}{\@date \par}}%
21594 \vskip \z@ \@plus3fill
21595 {\usekomafont{publishers}{\@publishers \par}}%
21596 \vskip 3em
21597 \end{center}\par
21598 \@thanks\global\let\@thanks\@empty
21599 \vfill\null
21600 \if@twoside
21601 \@tempwatruel
21602 \expandafter\ifnum \@nameuse{scr@v@3.12}>\scr@compatibility\relax
21603 \else
21604 \ifx\@uppertitleback\@empty\ifx\@lowertitleback\@empty
21605 \@tempwafalse

```



```

21606         \fi\fi
21607     \fi
21608     \if@tempswa
21609         \next@tpage
21610         \begin{minipage}[t]{\textwidth}
21611             \@uppertitleback
21612         \end{minipage}\par
21613         \vfill
21614         \begin{minipage}[b]{\textwidth}
21615             \@lowertitleback
21616         \end{minipage}\par
21617         \@thanks\global\let\@thanks\@empty
21618     \fi
21619 \else
21620     \ifx\@uppertitleback\@empty\else
21621         \ClassWarning{\KOMAClassName}{%
21622             non empty \string\uppertitleback\space ignored
21623             by \string\maketitle\MessageBreak
21624             in `twoside=false' mode%
21625         }%
21626     \fi
21627     \ifx\@lowertitleback\@empty\else
21628         \ClassWarning{\KOMAClassName}{%
21629             non empty \string\lowertitleback\space ignored
21630             by \string\maketitle\MessageBreak
21631             in `twoside=false' mode%
21632         }%
21633     \fi
21634 \fi
21635 \ifx\@dedication\@empty
21636 \else
21637     \next@tdpage\null\vfill
21638     {\centering\usekomafont{dedication}{\@dedication \par}}%
21639     \vskip \z@ \@plus3fill
21640     \@thanks\global\let\@thanks\@empty
21641     \cleardoubleemptypage
21642 \fi
21643     \ifx\titlepage@restore\relax\else\clearpage\titlepage@restore\fi
21644 \end{titlepage}
21645 \else
21646     \par
21647     \@tempcnta=%
21648     #1%
21649     \relax\ifnum\@tempcnta=1\else
21650         \ClassWarning{\KOMAClassName}{%
21651             Optional argument of \string\maketitle\space ignored\MessageBreak
21652             in `titlepage=false' mode%
21653         }%
21654     \fi
21655     \ifx\@uppertitleback\@empty\else
21656         \ClassWarning{\KOMAClassName}{%
21657             non empty \string\uppertitleback\space ignored
21658             by \string\maketitle\MessageBreak
21659             in `titlepage=false' mode%

```



```

21660     }%
21661 \fi
21662 \ifx\@lowertitleback\@empty\else
21663   \ClassWarning{\KOMAClassName}{%
21664     non empty \string\lowertitleback\space ignored
21665     by \string\maketitle\MessageBreak
21666     in `titlepage=false' mode%
21667   }%
21668 \fi
21669 \begingroup
21670   \let\titlepage@restore\relax
21671   \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
21672   \let\@oldmakefnmark\@makefnmark
21673   \renewcommand*\@makefnmark{\rlap\@oldmakefnmark}%
21674   \next@tdpage
21675   \if@twocolumn
21676     \ifnum \col@number=\@ne
21677       \ifx\@extratitle\@empty
21678         \ifx\@frontispiece\@empty\else\if@twoside\mbox{}\fi\fi
21679       \else
21680         \@makeextratitle
21681       \fi
21682       \ifx\@frontispiece\@empty
21683         \ifx\@extratitle\@empty\else\next@tdpage\fi
21684       \else
21685         \next@tpage
21686         \@makefrontispiece
21687         \next@tdpage
21688       \fi
21689       \@maketitle
21690     \else
21691       \ifx\@extratitle\@empty
21692         \ifx\@frontispiece\@empty\else\if@twoside\mbox{}\fi\fi
21693       \else
21694         \twocolumn[\@makeextratitle]%
21695       \fi
21696       \ifx\@frontispiece\@empty
21697         \ifx\@extratitle\@empty\else\next@tdpage\fi
21698       \else
21699         \next@tpage
21700         \twocolumn[\@makefrontispiece]%
21701         \next@tdpage
21702       \fi
21703       \twocolumn[\@maketitle]%
21704     \fi
21705   \else
21706     \ifx\@extratitle\@empty
21707       \ifx\@frontispiece\@empty\else \mbox{}\fi
21708     \else
21709       \@makeextratitle
21710     \fi
21711     \ifx\@frontispiece\@empty
21712       \ifx\@extratitle\@empty\else\next@tdpage\fi
21713     \else

```



```

21714         \next@tpage
21715         \@makefrontispiece
21716         \next@tdpage
21717         \fi
21718         \@maketitle
21719         \fi
21720         \ifx\titlepagestyle\@empty\else\thispagestyle{\titlepagestyle}\fi
21721         \@thanks\global\let\@thanks\@empty
21722     \endgroup
21723 \fi
21724 \setcounter{footnote}{0}%
21725 \expandafter\ifnum \cscname scr@v@3.12\endcscname>\scr@compatibility\relax
21726     \let\thanks\relax
21727     \let\LTRthanks\relax
21728     \let\RTLthanks\relax
21729     \let\maketitle\relax
21730     \let\@maketitle\relax
21731     \global\let\@thanks\@empty
21732     \global\let\@author\@empty
21733     \global\let\@date\@empty
21734     \global\let\@title\@empty
21735     \global\let\@subtitle\@empty
21736     \global\let\@extratitle\@empty
21737     \global\let\@frontispiece\@empty
21738     \global\let\@titlehead\@empty
21739     \global\let\@subject\@empty
21740     \global\let\@publishers\@empty
21741     \global\let\@uppertitleback\@empty
21742     \global\let\@lowertitleback\@empty
21743     \global\let\@dedication\@empty
21744     \global\let\author\relax
21745     \global\let\title\relax
21746     \global\let\extratitle\relax
21747     \global\let\titlehead\relax
21748     \global\let\subject\relax
21749     \global\let\publishers\relax
21750     \global\let\uppertitleback\relax
21751     \global\let\lowertitleback\relax
21752     \global\let\dedication\relax
21753     \global\let\date\relax
21754 \fi
21755 \global\let\and\relax
21756 }%
21757 \def\raggedsection{\if@RTL\raggedleft\else\raggedright\fi}
21758 \def\raggedpart{\if@RTL\raggedleft\else\raggedright\fi}
21759 \renewcommand*{\autodot}{\if@altsecnumformat\@SepMark\fi}
21760 \renewcommand*{\thesubsection}{\thesection\@SepMark\@arabic\c@subsection}
21761 \renewcommand*{\thesubsubsection}{%
21762   \thesubsection\@SepMark\@arabic\c@subsubsection
21763 }
21764 \renewcommand*{\theparagraph}{\thesubsubsection\@SepMark\@arabic\c@paragraph}
21765 \renewcommand*{\thesubparagraph}{%
21766   \theparagraph\@SepMark\@arabic\c@subparagraph
21767 }

```





```

21768 \renewenvironment{thebibliography}[1]{%
21769   \if@bib@break@
21770     \bib@beginhook
21771   \else
21772     \bib@heading
21773     \ifx\bibpreamble\relax\else\ifx\bibpreamble\empty\else
21774       \noindent\bibpreamble\par\nobreak
21775     \fi\fi
21776     \bib@beginhook
21777     \bib@before@hook
21778   \fi
21779   \renewcommand{\BreakBibliography}[1]{%
21780     \@bib@break
21781     \end{thebibliography}%
21782     \begingroup ##1\endgroup
21783     \begin{thebibliography}{#1}
21784   }%
21785   \ifRTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
21786   \bidi@thebibliography@font@hook%
21787   \list{%
21788     \@biblabel{\@arabic\c@enumiv}%
21789   }{%
21790     \settowidth\labelwidth{\@biblabel{#1}}%
21791     \leftmargin\labelwidth
21792     \advance\leftmargin\labelsep
21793     \@openbib@code
21794     \if@bib@break@
21795       \edef\@tempa{%
21796         \noexpand\usecounter{enumiv}%
21797         \noexpand\setcounter{enumiv}{\the\c@enumiv}%
21798       }\@tempa
21799       \no@bib@break
21800     \else
21801       \usecounter{enumiv}%
21802     \fi
21803     \let\p@enumiv\empty
21804     \renewcommand*\theenumiv{\@arabic\c@enumiv}%
21805   }%
21806   \sloppy\clubpenalty4000 \widowpenalty4000
21807   \sfcode`\.=\@m
21808 }{%
21809   \if@bib@break@
21810     \def\@noitemerr{%
21811       \@latex@warning{%
21812         \string\BreakBibliography\space at begin of `thebibliography'
21813         environment\MessageBreak
21814         or following \string\BreakBibliography}%
21815     }%
21816   \else
21817     \def\@noitemerr{%
21818       \@latex@warning{%
21819         Empty `thebibliography' environment or
21820         \string\BreakBibliography\MessageBreak
21821         before end of `thebibliography' environment}%

```



```

21822 }%
21823 \fi
21824 \endlist
21825 \if@bib@break@
21826 \else
21827 \bib@after@hook
21828 \let\bib@before@hook\@empty
21829 \let\bib@after@hook\@empty
21830 \fi
21831 \bib@endhook
21832 }
21833 \renewcommand*\raggeddictum{\if@RTL\raggedright\else\raggedleft\fi}
21834 \renewcommand*\raggeddictumtext{\if@RTL\raggedleft\else\raggedright\fi}
21835 \renewcommand*\raggeddictumauthor{\if@RTL\raggedright\else\raggedleft\fi}
21836 \renewcommand\marginline[1]{%
21837 \marginpar[\if@RTL\raggedright\else\raggedleft\fi{#1}]{\if@RTL\raggedleft\else\raggedright
21838 }
21839 \renewcommand{\@makecaption}[3]{%
21840 \cap@margin
21841 \begingroup
21842 \ifonelinecaptions
21843 \def\stepcounter##1{\advance\value{##1}\@ne}%
21844 \let\refstepcounter\stepcounter
21845 \let\label@gobble
21846 \let\@footnotetext=@gobble
21847 \let\@LTRfootnotetext=@gobble
21848 \let\@RTLfootnotetext=@gobble
21849 \let\hypertarget@gobbletwo
21850 \edef\xnewline{%
21851 \unexpanded{\ClassInfo{\KOMACClassName}}{%
21852 Workaround for not recommended usage of \string\ or\MessageBreak
21853 \string\newline in caption text
21854 }%
21855 \hspace*{\linewidth}\hspace{1sp}}%
21856 }%
21857 \unexpanded\expandafter{\xnewline}%
21858 }%
21859 \edef\xcentercr{%
21860 \unexpanded{\ClassInfo{\KOMACClassName}}{%
21861 Workaround for not recommended usage of \string\ or\MessageBreak
21862 \string\newline in caption text
21863 }%
21864 \hspace*{\linewidth}\hspace{1sp}}%
21865 }%
21866 \unexpanded\expandafter{\xcentercr}%
21867 }%
21868 \settowidth{\@tempdima}{\scr@makesinglelinecaption{#1}{#2}{#3}}%
21869 \ifdim\@tempdima>\cap@width
21870 \aftergroup\scr@makemultilinecaption
21871 \else
21872 \aftergroup\scr@makesinglelinecaption
21873 \fi
21874 \else
21875 \aftergroup\scr@makemultilinecaption

```



```

21876     \fi
21877 \endgroup
21878 {#1}{#2}{#3}%
21879 }
21880 \renewcommand{\scr@makesinglelinecaption}[3]{%
21881   {%
21882     \usefontofkomafont{caption}{%
21883       \hb@xt@\hsize{%
21884         \cap@left
21885         \if@RTL
21886           \beginR
21887             \fi
21888             \scr@makesinglelinecaption{#1}{#2}{#3}%
21889             \if@RTL
21890             \endR
21891             \fi
21892             \cap@right
21893       }\par\kern\dp\strutbox%
21894     }%
21895   }\kern-\dp\strutbox
21896 }
21897 \renewcommand{\@makecaption}[2]{%
21898   \if@captionabove
21899     \vskip\belowcaptionskip
21900   \else
21901     \vskip\abovecaptionskip
21902   \fi
21903   \@makecaption\@firstofone{#1}{#2}%
21904   \if@captionabove
21905     \vskip\abovecaptionskip
21906   \else
21907     \vskip\belowcaptionskip
21908   \fi
21909 }
21910
21911 \renewcommand{\scr@@makesinglelinecaption}[3]{%
21912   {\usekomafont{caption}{\strut\ignorespaces
21913     #1{\usekomafont{captionlabel}{#2\captionformat}}}%
21914     \ignorespaces #3\unskip}}%
21915 }
21916
21917 \renewcommand{\scr@makemultilinecaption}[3]{%
21918   {%
21919     \usefontofkomafont{caption}{%
21920       \hb@xt@\hsize{%
21921         \cap@left
21922         \vbox{\hsize\cap@width\linewidth\hsize
21923           \scr@ifundefinedorrelax{@capttype}{%
21924             \ClassWarning{KOMAClassName}{%
21925               `string\caption' outside float.\MessageBreak
21926               Seems you are using `string\caption' outside a
21927               float.\MessageBreak
21928               Maybe you are using a package that uses
21929               `string\@makecaption'\MessageBreak

```



```

21930         without setting '\string\@captype' before.\MessageBreak
21931         Because I cannot detect the caption type, I'm using\MessageBreak
21932         the empty one.%
21933     }%
21934     \let\@captype\@empty
21935 }{}%
21936 \scr@ifundefinedorrelax{ragged\@captype caption}{\raggedcaption}{%
21937     \@nameuse{ragged\@captype caption}%
21938 }%
21939 \ifdofullc@p
21940     \@hangfrom{%
21941         \strut
21942         \scr@smashdp{%
21943             #1{%
21944                 \usekomafont{caption}{%
21945                     \usekomafont{captionlabel}{#2\captionformat}%
21946                 }%
21947             }%
21948         }%
21949     }%
21950     {{\usekomafont{caption}{#3\scr@endstrut}}\par}%
21951 \else
21952     \ifdim\cap@indent<\z@
21953         \strut
21954         #1{%
21955             {\usekomafont{caption}{%
21956                 \usekomafont{captionlabel}{#2\captionformat}%
21957             }%
21958         }\par}%
21959         \noindent{{\usekomafont{caption}{%
21960             \hspace*{-\cap@indent}#3\scr@endstrut
21961         }}\par}%
21962     \else
21963         \if@capbreak
21964             \strut
21965             #1{%
21966                 {\usekomafont{caption}{%
21967                     \usekomafont{captionlabel}{#2\captionformat}%
21968                 }%
21969             }\par}%
21970             \noindent\@hangfrom{\hspace*{\cap@indent}}%
21971             {{\usekomafont{caption}{#3\scr@endstrut}}\par}%
21972         \else
21973             \@hangfrom{\scr@smashdp\strut\hspace*{\cap@indent}}%
21974             {%
21975                 \hspace{-\cap@indent}%
21976                 \scr@smashdp{%
21977                     #1{\usekomafont{caption}{%
21978                         \usekomafont{captionlabel}{#2\captionformat}%
21979                     }%
21980                 }%
21981             }%
21982             {{\usekomafont{caption}{#3\scr@endstrut}}\par}%
21983         }%

```



```

21984         \fi
21985         \fi
21986         \fi
21987     }%
21988     \cap@right
21989 } \par \kern \dp \strutbox
21990 }%
21991 } \kern - \dp \strutbox
21992 }
21993
21994 \bidi@AfterFile{longtable-xetex-bidi.def}{%
21995 \if@komalongtable
21996     \renewcommand{\LT@makecaption}[3]{%
21997         \noalign{%
21998             \if@captionabove
21999                 \vskip\belowcaptionskip
22000             \else
22001                 \vskip\abovecaptionskip
22002             \fi
22003         }%
22004         \LT@mc@col\LT@cols c{%
22005             \hbox to\z@{\hss\parbox[t]{\linewidth}{%
22006                 \def\@capttype{table}%
22007                 \@@makecaption{#1}{#2}{#3}%
22008                 \endgraf
22009                 \if@captionabove
22010                     \vskip\abovecaptionskip
22011                 \else
22012                     \vskip\belowcaptionskip
22013                 \fi
22014             }%
22015             \hss
22016         }%
22017     }%
22018 }%
22019 \renewcommand*{\scr@LT@array}{}%
22020 \let\scr@LT@array=\LT@array
22021 \renewcommand*{\LT@array}{%
22022     \let\scr@caption=\LT@caption
22023     \def\captionabove{\noalign{\global\@captionabovetrue}%
22024         \scr@caption}%
22025     \def\captionbelow{\noalign{\global\@captionabovetrue}%
22026         \scr@caption}%
22027     \if@tablecaptionabove
22028         \let\LT@caption=\captionabove
22029     \else
22030         \let\LT@caption=\captionbelow
22031     \fi
22032     \scr@LT@array
22033 }%
22034 \ClassInfo{\KOMAClassName}{%
22035     longtable captions redefined%
22036 }%
22037 \fi

```



```

22038 }
22039
22040 \CloneTOCEntryStyle{tocline}{part}
22041 \TOCEntryStyleStartInitCode{part}{%
22042   \expandafter\renewcommand%
22043   \csname scr@tso@#1@linefill\endcsname{\hfill}%
22044   \expandafter\renewcommand%
22045   \csname scr@tso@#1@entryformat\endcsname[1]{\usekomafont{partentry}{##1}}%
22046   \expandafter\renewcommand%
22047   \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
22048     {\usekomafont{partentry}{\usekomafont{partentrypagenumber}{##1}}}}%
22049   \expandafter\renewcommand\expandafter*%
22050   \csname scr@tso@#1@beforeskip\endcsname{2.25em \@plus\p@}%
22051 }
22052
22053 \CloneTOCEntryStyle{tocline}{section}
22054 \TOCEntryStyleStartInitCode{section}{%
22055   \expandafter\renewcommand%
22056   \csname scr@tso@#1@linefill\endcsname{%
22057     \if@sectionentrywithdots
22058       {\usekomafont{sectionentrydots}{\TOCLineLeaderFill}}\relax
22059     \else
22060       \hfill
22061     \fi
22062   }%
22063   \expandafter\renewcommand%
22064   \csname scr@tso@#1@entryformat\endcsname{\usekomafont{sectionentry}}%
22065   \expandafter\renewcommand%
22066   \csname scr@tso@#1@pagenumberformat\endcsname[1]{\usekomafont{sectionentry}{\usekomafont{
22067     \expandafter\renewcommand\expandafter*%
22068     \csname scr@tso@#1@beforeskip\endcsname{1.0em \@plus\p@}%
22069   }
22070
22071 \CloneTOCEntryStyle{tocline}{subsection}
22072 \TOCEntryStyleStartInitCode{subsection}{%
22073   \expandafter\renewcommand%
22074   \csname scr@tso@#1@linefill\endcsname{\TOCLineLeaderFill\relax}%
22075   \expandafter\renewcommand%
22076   \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
22077     {\normalfont\normalcolor ##1}}%
22078 }
22079
22080 \CloneTOCEntryStyle{subsection}{default}
22081
22082 \DeclareSectionCommand[%
22083   style=section,%
22084   level=1,%
22085   indent=\z@,%
22086   beforeskip=-3.5ex \@plus -1ex \@minus -.2ex,%
22087   afterskip=2.3ex \@plus.2ex,%
22088   tocstyle=section,%
22089   tocindent=0pt,%
22090   tocnumwidth=1.5em%
22091 ]{section}

```



```

22092 \DeclareSectionCommand[%
22093   style=part,%
22094   level=\z@,%
22095   tocstyle=part,%
22096   toplevel=\m@ne,%
22097   tocindent=\z@,%
22098   tocnumwidth=2em%
22099 ]{part}
22100 \DeclareSectionCommand[%
22101   style=section,%
22102   level=2,%
22103   indent=\z@,%
22104   beforekip=-3.25ex\@plus -1ex \@minus -.2ex,%
22105   afterskip=1.5ex \@plus .2ex,%
22106   tocstyle=subsection,%
22107   tocindent=1.5em,%
22108   tocnumwidth=2.3em%
22109 ]{subsection}
22110 \DeclareSectionCommand[%
22111   style=section,%
22112   level=3,%
22113   indent=\z@,%
22114   beforekip=-3.25ex\@plus -1ex \@minus -.2ex,%
22115   afterskip=1.5ex \@plus .2ex,%
22116   tocstyle=subsection,%
22117   tocindent=3.8em,%
22118   tocnumwidth=3.2em%
22119 ]{subsubsection}
22120 \DeclareSectionCommand[%
22121   style=section,%
22122   level=4,%
22123   indent=\z@,%
22124   beforekip=3.25ex \@plus 1ex \@minus .2ex,%
22125   afterskip=-1em,%
22126   tocstyle=subsection,%
22127   tocindentfollows=subsubsection,%
22128   tocindent=7.0em,%
22129   tocnumwidth=4.1em%
22130 ]{paragraph}
22131 \DeclareSectionCommand[%
22132   style=section,%
22133   level=5,%
22134   indent=\scr@parindent,%
22135   beforekip=3.25ex \@plus 1ex \@minus .2ex,%
22136   afterskip=-1em,%
22137   tocstyle=subsection,%
22138   tocindent=10em,%
22139   tocnumwidth=5em%
22140 ]{subparagraph}

```

## 142 File `scrbook-xetex-bidi.def`

```

22141 \ProvidesFile{scrbook-xetex-bidi.def}[2022/05/27 v1.3 bidi adaptations for scrbook class for
22142 \newcommand{\scr@saved@LTRfootnotetext}{}

```



```

22143 \newcommand{\scr@saved@RTLfootnotetext}{}
22144 \let\scr@saved@footnotetext\@footnotetext
22145 \let\scr@saved@LTRfootnotetext\@LTRfootnotetext
22146 \let\scr@saved@RTLfootnotetext\@RTLfootnotetext
22147 \renewcommand{\@footnotetext}[1]{%
22148   \scr@saved@footnotetext{#1}%
22149   \csname FN@mf@prepare\endcsname
22150 }
22151 \renewcommand{\@LTRfootnotetext}[1]{%
22152   \scr@saved@LTRfootnotetext{#1}%
22153   \csname FN@mf@prepare\endcsname
22154 }
22155 \renewcommand{\@RTLfootnotetext}[1]{%
22156   \scr@saved@RTLfootnotetext{#1}%
22157   \csname FN@mf@prepare\endcsname
22158 }
22159 \renewcommand\deffootnote[4][1]{%
22160   \expandafter\ifnum\scr@v@is@ge{3.22}\relax
22161     \long\def\@makefntext##1{%
22162       \ExecuteDoHook{footnote/text/begin}%
22163       \raggedfootnote
22164       \if@RTL
22165         \rightskip
22166       \else
22167         \leftskip
22168       \fi
22169       #2
22170       \l@addto@macro\@trivlist{%
22171         \ifnum\@listdepth=\@ne\advance
22172           \if@RTL
22173             \rightmargin #2\relax
22174           \else
22175             \leftmargin #2\relax
22176           \fi
22177         \fi
22178       }%
22179       \parindent #3\noindent
22180       \IfArgIsEmpty{#1}{}{%
22181         \hskip \dimexpr #1-#2\relax
22182       }%
22183       \ftn@font\hbox to \z@{\hss\@makefnmark}##1%
22184       \ExecuteDoHook{footnote/text/end}%
22185     }%
22186   \else
22187     \ClassInfo{\KOMAClassName}{%
22188       Using old \string\@makefntext\space due to compatibility
22189       level\MessageBreak
22190       less than 3.22}%
22191     \long\def\@makefntext##1{%
22192       \setlength{\@tempdimc}{#3}%
22193       \def\@tempa{#1}\ifx\@tempa\@empty
22194         \setpar{\@par
22195           \@tempdima = \hspace
22196           \addtolength{\@tempdima}{-#2}%

```





```

22197         \ifRTL
22198             \parshape \@ne \z@ \@tempdima
22199         \else
22200             \parshape \@ne #2 \@tempdima
22201         \fi
22202     }%
22203 \else
22204     \addtolength{\@tempdimc}{#2}%
22205     \addtolength{\@tempdimc}{-#1}%
22206     \setpar{\@par
22207         \@tempdima = \hsize
22208         \addtolength{\@tempdima}{-#1}%
22209         \@tempdimb = \hsize
22210         \addtolength{\@tempdimb}{-#2}%
22211         \ifRTL
22212             \parshape \tw@ \z@ \@tempdima \z@ \@tempdimb
22213         \else
22214             \parshape \tw@ #1 \@tempdima #2 \@tempdimb
22215         \fi
22216     }%
22217 \fi
22218 \par
22219 \parindent\@tempdimc\noindent
22220 \ftn@font\hbox to \z@{\hss\@makefnmark}##1%
22221 }%
22222 \fi
22223 \def\@makefnmark{\hbox{\ftn@font{#4}}}%
22224 }
22225 \deffootnote[1em]{1.5em}{1em}{\textsuperscript{\thefootnotemark}}
22226 \renewcommand*\left@footnoterule{%
22227     \normalsize\ftn@rule@test@values
22228     \kern-\dimexpr 2.6\p@+\ftn@rule@height\relax
22229     \ifx\@textbottom\relax\else\vskip \z@ \@plus.05fil\fi
22230     {\usekomafont{footnoterule}{%
22231         \hrule \@height\ftn@rule@height \@width\ftn@rule@width}}%
22232     \kern 2.6\p@}
22233 \renewcommand*\right@footnoterule{%
22234     \normalsize\ftn@rule@test@values
22235     \kern-\dimexpr 2.6\p@+\ftn@rule@height\relax
22236     \ifx\@textbottom\relax\else\vskip \z@ \@plus.05fil\fi
22237     {\usekomafont{footnoterule}{%
22238         \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\ftn@rule@width\relax \leavevmode\
22239     \kern 2.6\p@}
22240 \renewcommand*\maketitle[1][1]{%
22241     \expandafter\ifnum \csname scr@v@3.12\endcsname>\scr@compatibility\relax
22242     \else
22243         \def\and{%
22244             \end{tabular}%
22245             \hskip 1em \@plus.17fil%
22246             \begin{tabular}[t]{c}%
22247         }%
22248     \fi
22249     \if@titlepage
22250         \begin{titlepage}

```



```

22251 \setcounter{page}{%
22252 #1%
22253 }%
22254 \if@titlepageiscoverpage
22255 \edef\titlename@restore{%
22256 \noexpand\endgroup
22257 \noexpand\global\noexpand\@colht\the\@colht
22258 \noexpand\global\noexpand\@colroom\the\@colroom
22259 \noexpand\global\ysize\the\ysize
22260 \noexpand\global\noexpand\@titlepageiscoverpagefalse
22261 \noexpand\let\noexpand\titlename@restore\noexpand\relax
22262 }%
22263 \begingroup
22264 \topmargin=\dimexpr \coverpagetopmargin-1in\relax
22265 \oddsidemargin=\dimexpr \coverpageleftmargin-1in\relax
22266 \evensidemargin=\dimexpr \coverpageleftmargin-1in\relax
22267 \textwidth=\dimexpr
22268 \paperwidth-\coverpageleftmargin-\coverpagerightmargin\relax
22269 \textheight=\dimexpr
22270 \paperheight-\coverpagetopmargin-\coverpagebottommargin\relax
22271 \headheight=0pt
22272 \headsep=0pt
22273 \footskip=\baselineskip
22274 \@colht=\textheight
22275 \@colroom=\textheight
22276 \ysize=\textheight
22277 \columnwidth=\textwidth
22278 \hsize=\columnwidth
22279 \linewidth=\hsize
22280 \else
22281 \let\titlename@restore\relax
22282 \fi
22283 \let\footnotesize\small
22284 \let\right@footnoterule\relax
22285 \let\left@footnoterule\relax
22286 \let\textwidth@footnoterule\relax
22287 \let\footnote\thanks
22288 \let\LTRfootnote\LTRthanks
22289 \let\RTLfootnote\RTLthanks
22290 \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
22291 \let\@oldmakefnmark\@makefnmark
22292 \renewcommand*{\@makefnmark}{\rlap\@oldmakefnmark}%
22293 \ifx\@extratitle\@empty
22294 \ifx\@frontispiece\@empty
22295 \else
22296 \if@twoside\mbox{}\next@tpage\fi
22297 \noindent\@frontispiece\next@tdpage
22298 \fi
22299 \else
23000 \noindent\@extratitle
23001 \ifx\@frontispiece\@empty
23002 \else
23003 \next@tpage
23004 \noindent\@frontispiece

```



```

22305     \fi
22306     \next@tdpage
22307 \fi
22308 \setparsizes{\z@}{\z@}{\z@\@plus 1fil}\par@updateerelative
22309 \ifx\@titlehead\@empty \else
22310   \begin{minipage}[t]{\textwidth}%
22311     \usekomafont{titlehead}{\@titlehead\par}%
22312   \end{minipage}\par
22313 \fi
22314 \null\vfill
22315 \begin{center}
22316   \ifx\@subject\@empty \else
22317     {\usekomafont{subject}{\@subject\par}}%
22318     \vskip 3em
22319   \fi
22320   {\usekomafont{title}{\huge \@title\par}}%
22321   \vskip 1em
22322   {\ifx\@subtitle\@empty\else\usekomafont{subtitle}{\@subtitle\par}\fi}%
22323   \vskip 2em
22324   {%
22325     \usekomafont{author}{%
22326       \lineskip 0.75em
22327       \begin{tabular}[t]{c}
22328         \@author
22329       \end{tabular}\par
22330     }%
22331   }%
22332   \vskip 1.5em
22333   {\usekomafont{date}{\@date \par}}%
22334   \vskip \z@ \@plus3fill
22335   {\usekomafont{publishers}{\@publishers \par}}%
22336   \vskip 3em
22337 \end{center}\par
22338 \@thanks\global\let\@thanks\@empty
22339 \vfill\null
22340 \if@twoside
22341   \@tempwattrue
22342   \expandafter\ifnum \@nameuse{scr@v03.12}>\scr@compatibility\relax
22343   \else
22344     \ifx\@uppertitleback\@empty\ifx\@lowertitleback\@empty
22345       \@tempswafalse
22346     \fi\fi
22347   \fi
22348   \if@tempswa
22349     \next@tpage
22350     \begin{minipage}[t]{\textwidth}
22351       \@uppertitleback
22352     \end{minipage}\par
22353     \vfill
22354     \begin{minipage}[b]{\textwidth}
22355       \@lowertitleback
22356     \end{minipage}\par
22357     \@thanks\global\let\@thanks\@empty
22358   \fi

```



```

22359 \else
22360 \ifx\@uppertitleback\@empty\else
22361 \ClassWarning{\KOMAClassName}{%
22362 non empty \string\uppertitleback\space ignored
22363 by \string\maketitle\MessageBreak
22364 in `twoside=false' mode%
22365 }%
22366 \fi
22367 \ifx\@lowertitleback\@empty\else
22368 \ClassWarning{\KOMAClassName}{%
22369 non empty \string\lowertitleback\space ignored
22370 by \string\maketitle\MessageBreak
22371 in `twoside=false' mode%
22372 }%
22373 \fi
22374 \fi
22375 \ifx\@dedication\@empty
22376 \else
22377 \next@tdpage\null\vfill
22378 {\centering\usekomafont{dedication}{\@dedication \par}}%
22379 \vskip \z@ \@plus3fill
22380 \@thanks\global\let\@thanks\@empty
22381 \cleardoubleemptypage
22382 \fi
22383 \ifx\titlepage@restore\relax\else\clearpage\titlepage@restore\fi
22384 \end{titlepage}
22385 \else
22386 \par
22387 \@tempcnta=%
22388 #1%
22389 \relax\ifnum\@tempcnta=1\else
22390 \ClassWarning{\KOMAClassName}{%
22391 Optional argument of \string\maketitle\space ignored\MessageBreak
22392 in `titlepage=false' mode%
22393 }%
22394 \fi
22395 \ifx\@uppertitleback\@empty\else
22396 \ClassWarning{\KOMAClassName}{%
22397 non empty \string\uppertitleback\space ignored
22398 by \string\maketitle\MessageBreak
22399 in `titlepage=false' mode%
22400 }%
22401 \fi
22402 \ifx\@lowertitleback\@empty\else
22403 \ClassWarning{\KOMAClassName}{%
22404 non empty \string\lowertitleback\space ignored
22405 by \string\maketitle\MessageBreak
22406 in `titlepage=false' mode%
22407 }%
22408 \fi
22409 \begingroup
22410 \let\titlepage@restore\relax
22411 \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
22412 \let\@oldmakefnmark\@makefnmark

```



```

22413 \renewcommand*{\@makefnmark}{\rlap{\oldmakefnmark}}%
22414 \next@tdpage
22415 \if@twocolumn
22416 \ifnum \col@number=\@ne
22417 \ifx\@extratitle\@empty
22418 \ifx\@frontispiece\@empty\else\if@twoside\mbox{}\fi\fi
22419 \else
22420 \@makeextratitle
22421 \fi
22422 \ifx\@frontispiece\@empty
22423 \ifx\@extratitle\@empty\else\next@tdpage\fi
22424 \else
22425 \next@tpage
22426 \@makefrontispiece
22427 \next@tdpage
22428 \fi
22429 \@maketitle
22430 \else
22431 \ifx\@extratitle\@empty
22432 \ifx\@frontispiece\@empty\else\if@twoside\mbox{}\fi\fi
22433 \else
22434 \twocolumn[\@makeextratitle]%
22435 \fi
22436 \ifx\@frontispiece\@empty
22437 \ifx\@extratitle\@empty\else\next@tdpage\fi
22438 \else
22439 \next@tpage
22440 \twocolumn[\@makefrontispiece]%
22441 \next@tdpage
22442 \fi
22443 \twocolumn[\@maketitle]%
22444 \fi
22445 \else
22446 \ifx\@extratitle\@empty
22447 \ifx\@frontispiece\@empty\else \mbox{}\fi
22448 \else
22449 \@makeextratitle
22450 \fi
22451 \ifx\@frontispiece\@empty
22452 \ifx\@extratitle\@empty\else\next@tdpage\fi
22453 \else
22454 \next@tpage
22455 \@makefrontispiece
22456 \next@tdpage
22457 \fi
22458 \@maketitle
22459 \fi
22460 \ifx\titlepagestyle\@empty\else\thispagestyle{\titlepagestyle}\fi
22461 \@thanks\global\let\@thanks\@empty
22462 \endgroup
22463 \fi
22464 \setcounter{footnote}{0}%
22465 \expandafter\ifnum \c@name scr@v@3.12\endcsname>\scr@compatibility\relax
22466 \let\thanks\relax

```



```

22467 \let\LTRthanks\relax
22468 \let\RTLthanks\relax
22469 \let\maketitle\relax
22470 \let\@maketitle\relax
22471 \global\let\@thanks\@empty
22472 \global\let\@author\@empty
22473 \global\let\@date\@empty
22474 \global\let\@title\@empty
22475 \global\let\@subtitle\@empty
22476 \global\let\@extratitle\@empty
22477 \global\let\@frontispiece\@empty
22478 \global\let\@titlehead\@empty
22479 \global\let\@subject\@empty
22480 \global\let\@publishers\@empty
22481 \global\let\@uppertitleback\@empty
22482 \global\let\@lowertitleback\@empty
22483 \global\let\@dedication\@empty
22484 \global\let\author\relax
22485 \global\let\title\relax
22486 \global\let\extratitle\relax
22487 \global\let\titlehead\relax
22488 \global\let\subject\relax
22489 \global\let\publishers\relax
22490 \global\let\uppertitleback\relax
22491 \global\let\lowertitleback\relax
22492 \global\let\dedication\relax
22493 \global\let\date\relax
22494 \fi
22495 \global\let\and\relax
22496 }%
22497 \def\raggedsection{\if@RTL\raggedleft\else\raggedright\fi}
22498 \renewcommand*{\autodot{\if@altsecnumformat\@SepMark\fi}
22499 \renewcommand*\thesection{%
22500 \expandafter\ifnum\scr@v@is>{2.97d}%
22501 \if@mainmatter\thechapter\@SepMark\fi
22502 \else
22503 \thechapter\@SepMark%
22504 \fi
22505 \@arabic\c@section
22506 }
22507 \renewcommand*{\thesubsection}{\thesection\@SepMark\@arabic\c@subsection}
22508 \renewcommand*{\thesubsubsection}{%
22509 \thesubsection\@SepMark\@arabic\c@subsubsection
22510 }
22511 \renewcommand*{\theparagraph}{\thesubsubsection\@SepMark\@arabic\c@paragraph}
22512 \renewcommand*{\thesubparagraph}{%
22513 \theparagraph\@SepMark\@arabic\c@subparagraph
22514 }
22515 \expandafter\ifnum\scr@v@is<=2.97d}%
22516 \renewcommand*\thefigure{\thechapter\@SepMark\@arabic\c@figure}
22517 \fi
22518 \expandafter\ifnum\scr@v@is<=2.97d}%
22519 \renewcommand*\thetable{\thechapter\@SepMark\@arabic\c@table}
22520 \fi

```



```

22521 \renewcommand*\theequation}{%
22522 \expandafter\ifnum\scr@v@is@gt{2.97d}%
22523 \if@mainmatter\thechapter\@SepMark\fi
22524 \else
22525 \thechapter\@SepMark%
22526 \fi
22527 \@arabic\c@equation
22528 }
22529 \renewenvironment{thebibliography}[1]{%
22530 \if@bib@break@
22531 \bib@beginhook
22532 \else
22533 \ifx\bibpreamble\relax\else\ifx\bibpreamble\@empty\else
22534 \setchapterpreamble{\bibpreamble}%
22535 \fi\fi
22536 \bib@heading
22537 \bib@beginhook
22538 \bib@before@hook
22539 \fi
22540 \renewcommand{\BreakBibliography}[1]{%
22541 \@bib@break
22542 \end{thebibliography}%
22543 \begingroup ##1\endgroup
22544 \begin{thebibliography}{#1}
22545 }%
22546 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
22547 \bidi@thebibliography@font@hook%
22548 \list{%
22549 \@biblabel{\@arabic\c@enumiv}%
22550 }{%
22551 \settowidth\labelwidth{\@biblabel{#1}}%
22552 \leftmargin\labelwidth
22553 \advance\leftmargin\labelsep
22554 \@openbib@code
22555 \if@bib@break@
22556 \edef\@tempa{%
22557 \noexpand\usecounter{enumiv}%
22558 \noexpand\setcounter{enumiv}{\the\c@enumiv}%
22559 }\@tempa
22560 \no@bib@break
22561 \else
22562 \usecounter{enumiv}%
22563 \fi
22564 \let\p@enumiv\@empty
22565 \renewcommand*\theenumiv{\@arabic\c@enumiv}%
22566 }%
22567 \sloppy\clubpenalty4000 \widowpenalty4000
22568 \sfcode`.=\@m
22569 }{%
22570 \if@bib@break@
22571 \def\@noitemerr{%
22572 \@latex@warning{%
22573 \string\BreakBibliography\space at begin of `thebibliography'
22574 environment\MessageBreak

```



```

22575     or following \string\BreakBibliography}%
22576   }%
22577 \else
22578   \def\@noitemerr{%
22579     \@latex@warning{%
22580       Empty `thebibliography' environment or
22581       \string\BreakBibliography\MessageBreak
22582       before end of `thebibliography' environment}%
22583   }%
22584 \fi
22585 \endlist
22586 \if@bib@break@
22587 \else
22588   \bib@after@hook
22589   \let\bib@before@hook\@empty
22590   \let\bib@after@hook\@empty
22591 \fi
22592 \bib@endhook
22593 }
22594 \renewcommand*\raggeddictum{\if@RTL\raggedright\else\raggedleft\fi}
22595 \renewcommand*\raggeddictumtext{\if@RTL\raggedleft\else\raggedright\fi}
22596 \renewcommand*\raggeddictumauthor{\if@RTL\raggedright\else\raggedleft\fi}
22597 \renewcommand\marginline[1]{%
22598   \marginpar[\if@RTL\raggedright\else\raggedleft\fi{#1}]{\if@RTL\raggedleft\else\raggedright
22599 }
22600 \renewcommand{\@makecaption}[3]{%
22601   \cap@margin
22602   \begingroup
22603     \ifonelinecaptions
22604     \def\stepcounter##1{\advance\value{##1}\@ne}%
22605     \let\refstepcounter\stepcounter
22606     \let\label\@gobble
22607     \let\@footnotetext=\@gobble
22608     \let\@LTRfootnotetext=\@gobble
22609     \let\@RTLfootnotetext=\@gobble
22610     \let\hypertarget\@gobbletwo
22611     \edef\xnewline{%
22612       \unexpanded{\ClassInfo{\KOMAClassName}}{%
22613         Workaround for not recommended usage of \string\ or\MessageBreak
22614         \string\newline in caption text
22615       }%
22616       \hspace*{\linewidth}\hspace{1sp}%
22617     }%
22618     \unexpanded\expandafter{\xnewline}%
22619   }%
22620   \edef\@xcentercr{%
22621     \unexpanded{\ClassInfo{\KOMAClassName}}{%
22622       Workaround for not recommended usage of \string\ or\MessageBreak
22623       \string\newline in caption text
22624     }%
22625     \hspace*{\linewidth}\hspace{1sp}%
22626   }%
22627   \unexpanded\expandafter{\@xcentercr}%
22628 }%

```





```

22629     \settowidth{\@tempdima}{\scr@makesinglelinecaption{#1}{#2}{#3}}%
22630     \ifdim\@tempdima>\cap@width
22631         \aftergroup\scr@makemultilinecaption
22632     \else
22633         \aftergroup\scr@makesinglelinecaption
22634     \fi
22635 \else
22636     \aftergroup\scr@makemultilinecaption
22637 \fi
22638 \endgroup
22639 {#1}{#2}{#3}%
22640 }
22641 \renewcommand{\scr@makesinglelinecaption}[3]{%
22642   {%
22643     \usefontofkomafont{caption}{%
22644       \hb@xt@\hsize{%
22645         \cap@left
22646         \if@RTL
22647           \beginR
22648         \fi
22649         \scr@makesinglelinecaption{#1}{#2}{#3}%
22650         \if@RTL
22651           \endR
22652         \fi
22653         \cap@right
22654       }\par\kern\dp\strutbox%
22655     }%
22656   }\kern-\dp\strutbox
22657 }
22658 \renewcommand{\@makecaption}[2]{%
22659   \if@captionabove
22660     \vskip\belowcaptionskip
22661   \else
22662     \vskip\abovecaptionskip
22663   \fi
22664   \@makecaption\@firstofone{#1}{#2}%
22665   \if@captionabove
22666     \vskip\abovecaptionskip
22667   \else
22668     \vskip\belowcaptionskip
22669   \fi
22670 }
22671
22672 \renewcommand{\scr@makesinglelinecaption}[3]{%
22673   {\usekomafont{caption}{\strut\ignorespaces
22674     #1{\usekomafont{captionlabel}{#2\captionformat}}}%
22675     \ignorespaces #3\unskip}}%
22676 }
22677
22678 \renewcommand{\scr@makemultilinecaption}[3]{%
22679   {%
22680     \usefontofkomafont{caption}{%
22681       \hb@xt@\hsize{%
22682         \cap@left

```



```

22683 \vbox{\hsize\cap@width\linewidth\hsize
22684 \scr@ifundefinedorrelax{@capttype}{%
22685 \ClassWarning{\KOMAClassName}{%
22686 \string\caption' outside float.\MessageBreak
22687 Seems you are using \string\caption' outside a
22688 float.\MessageBreak
22689 Maybe you are using a package that uses
22690 \string\@makecaption'\MessageBreak
22691 without setting \string\@capttype' before.\MessageBreak
22692 Because I cannot detect the caption type, I'm using\MessageBreak
22693 the empty one.%
22694 }%
22695 \let\@capttype\@empty
22696 }{}%
22697 \scr@ifundefinedorrelax{ragged\@capttype caption}{\raggedcaption}{%
22698 \@nameuse{ragged\@capttype caption}%
22699 }%
22700 \ifdofullc@p
22701 \@hangfrom{%
22702 \strut
22703 \scr@smashdp{%
22704 #1{%
22705 \usekomafont{caption}{%
22706 \usekomafont{captionlabel}{#2\captionformat}%
22707 }%
22708 }%
22709 }%
22710 }%
22711 {\usekomafont{caption}{#3\scr@endstrut}}\par}%
22712 \else
22713 \ifdim\cap@indent<\z@
22714 \strut
22715 #1{%
22716 {\usekomafont{caption}{%
22717 \usekomafont{captionlabel}{#2\captionformat}%
22718 }%
22719 }\par}%
22720 \noindent{\usekomafont{caption}{%
22721 \hspace*{-\cap@indent}#3\scr@endstrut
22722 }}\par}%
22723 \else
22724 \if@capbreak
22725 \strut
22726 #1{%
22727 {\usekomafont{caption}{%
22728 \usekomafont{captionlabel}{#2\captionformat}%
22729 }
22730 }\par}%
22731 \noindent\@hangfrom{\hspace*\cap@indent}}%
22732 {\usekomafont{caption}{#3\scr@endstrut}}\par}%
22733 \else
22734 \@hangfrom{\scr@smashdp\strut\hspace*\cap@indent}}%
22735 {%
22736 \hspace{-\cap@indent}%

```



```

22737         \scr@smashdp{%
22738             #1{\usekomafont{caption}{%
22739                 \usekomafont{captionlabel}{#2\captionformat}%
22740             }%
22741         }%
22742     }%
22743     {{{\usekomafont{caption}{#3\scr@endstrut}}\par}%
22744 }%
22745     \fi
22746     \fi
22747     \fi
22748 }%
22749     \cap@right
22750 } \par \kern \dp \strutbox
22751 }%
22752 } \kern - \dp \strutbox
22753 }
22754
22755
22756 \bidi@AfterFile{longtable-xetex-bidi.def}{%
22757     \if@komalongtable
22758         \renewcommand{\LT@makecaption}[3]{%
22759             \noalign{%
22760                 \if@captionabove
22761                     \vskip\belowcaptionskip
22762                 \else
22763                     \vskip\abovecaptionskip
22764                 \fi
22765             }%
22766             \LT@mcol\LT@cols c{%
22767                 \hbox to\z@{\hss\parbox[t]\linewidth{%
22768                     \def\@captiontype{table}%
22769                     \@makecaption{#1}{#2}{#3}%
22770                     \endgraf
22771                     \if@captionabove
22772                         \vskip\abovecaptionskip
22773                     \else
22774                         \vskip\belowcaptionskip
22775                     \fi
22776                 }%
22777                 \hss
22778             }%
22779         }%
22780     }%
22781     \renewcommand*\scr@LT@array}{}%
22782     \let\scr@LT@array=\LT@array
22783     \renewcommand*\LT@array{%
22784         \let\scr@caption=\LT@caption
22785         \def\captionabove{\noalign{\global\@captionabovetrue}%
22786             \scr@caption}%
22787         \def\captionbelow{\noalign{\global\@captionabovetrue}%
22788             \scr@caption}%
22789         \if@tablecaptionabove
22790             \let\LT@caption=\captionabove

```



```

22791     \else
22792         \let\LT@caption=\captionbelow
22793     \fi
22794     \scr@LT@array
22795 }%
22796 \ClassInfo{\KOMAClassName}{%
22797     longtable captions redefined%
22798 }%
22799 \fi
22800 }
22801
22802 \CloneTOCEntryStyle{tocline}{part}
22803 \TOCEntryStyleStartInitCode{part}{%
22804     \expandafter\renewcommand%
22805     \csname scr@tso@#1@linefill\endcsname{\hfill}%
22806     \expandafter\renewcommand%
22807     \csname scr@tso@#1@entryformat\endcsname[1]{\usekomafont{partentry}{##1}}%
22808     \expandafter\renewcommand%
22809     \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
22810         {\usekomafont{partentry}{\usekomafont{partentrypagenumber}{##1}}}%
22811     \expandafter\renewcommand\expandafter*%
22812     \csname scr@tso@#1@beforeskip\endcsname{2.25em \@plus\p}%
22813 }
22814
22815 \CloneTOCEntryStyle{tocline}{chapter}
22816 \TOCEntryStyleStartInitCode{chapter}{%
22817     \expandafter\renewcommand%
22818     \csname scr@tso@#1@linefill\endcsname{%
22819         \if@chapterentrywithdots
22820             {\usekomafont{chapterentrydots}{\TOCLineLeaderFill}}\relax
22821         \else
22822             \hfill
22823         \fi
22824     }%
22825     \expandafter\renewcommand%
22826     \csname scr@tso@#1@entryformat\endcsname{\usekomafont{chapterentry}}%
22827     \expandafter\renewcommand%
22828     \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
22829         {\usekomafont{chapterentry}{\usekomafont{chapterentrypagenumber}{##1}}}%
22830     \expandafter\renewcommand\expandafter*%
22831     \csname scr@tso@#1@beforeskip\endcsname{1.0em \@plus\p}%
22832 }
22833
22834 \CloneTOCEntryStyle{tocline}{section}
22835 \TOCEntryStyleStartInitCode{section}{%
22836     \expandafter\renewcommand%
22837     \csname scr@tso@#1@linefill\endcsname{\TOCLineLeaderFill\relax}%
22838     \expandafter\renewcommand%
22839     \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
22840         {\normalfont\normalcolor ##1}}%
22841 }
22842
22843 \CloneTOCEntryStyle{section}{default}
22844

```



```

22845 \DeclareSectionCommand[%
22846   style=chapter,%
22847   level=\z@,%
22848   pagestyle=plain,%
22849   tocstyle=chapter,%
22850   tocindent=\z@,%
22851   tocnumwidth=1.5em%
22852 ]{chapter}
22853 \DeclareSectionCommand[%
22854   style=section,%
22855   level=1,%
22856   indent=\z@,%
22857   beforekip=-3.5ex \@plus -1ex \@minus -.2ex,%
22858   afterskip=2.3ex \@plus .2ex,%
22859   tocstyle=section,%
22860   tocindentfollows=chapter,%
22861   tocindent=1.5em,%
22862   tocnumwidth=2.3em%
22863 ]{section}
22864 \DeclareSectionCommand[%
22865   style=part,%
22866   level=\m@ne,%
22867   pagestyle=plain,%
22868   tocstyle=part,%
22869   toplevel=\m@ne,%
22870   tocindent=\z@,%
22871   tocnumwidth=2em%
22872 ]{part}
22873 \DeclareSectionCommand[%
22874   style=section,%
22875   level=2,%
22876   indent=\z@,%
22877   beforekip=-3.25ex \@plus -1ex \@minus -.2ex,%
22878   afterskip=1.5ex \@plus .2ex,%
22879   tocstyle=section,%
22880   tocindent=3.8em,%
22881   tocnumwidth=3.2em%
22882 ]{subsection}
22883 \DeclareSectionCommand[%
22884   style=section,%
22885   level=3,%
22886   indent=\z@,%
22887   beforekip=-3.25ex \@plus -1ex \@minus -.2ex,%
22888   afterskip=1.5ex \@plus .2ex,%
22889   tocstyle=section,%
22890   tocindent=7.0em,%
22891   tocnumwidth=4.1em%
22892 ]{subsubsection}
22893 \DeclareSectionCommand[%
22894   style=section,%
22895   level=4,%
22896   indent=\z@,%
22897   beforekip=3.25ex \@plus 1ex \@minus .2ex,%
22898   afterskip=-1em,%

```



```

22899 tocindentfollows=subsubsection,%
22900 tocstyle=section,%
22901 tocindent=10em,%
22902 tocnumwidth=5em%
22903 ]{paragraph}
22904 \DeclareSectionCommand[%
22905 style=section,%
22906 level=5,%
22907 indent=\scr@parindent,%
22908 beforekip=3.25ex \@plus1ex \@minus .2ex,%
22909 afterskip=-1em,%
22910 tocstyle=section,%
22911 tocindent=12em,%
22912 tocnumwidth=6em%
22913 ]{subparagraph}

```

## 143 File `scrreprt-xetex-bidi.def`

```

22914 \ProvidesFile{scrreprt-xetex-bidi.def}[2022/05/27 v1.3 bidi adaptations for scrreprt class f
22915 \newcommand{\scr@saved@LTRfootnotetext}{}
22916 \newcommand{\scr@saved@RTLfootnotetext}{}
22917 \let\scr@saved@footnotetext\@footnotetext
22918 \let\scr@saved@LTRfootnotetext\@LTRfootnotetext
22919 \let\scr@saved@RTLfootnotetext\@RTLfootnotetext
22920 \renewcommand{\@footnotetext}[1]{%
22921   \scr@saved@footnotetext{#1}%
22922   \csname FN@mf@prepare\endcsname
22923 }
22924 \renewcommand{\@LTRfootnotetext}[1]{%
22925   \scr@saved@LTRfootnotetext{#1}%
22926   \csname FN@mf@prepare\endcsname
22927 }
22928 \renewcommand{\@RTLfootnotetext}[1]{%
22929   \scr@saved@RTLfootnotetext{#1}%
22930   \csname FN@mf@prepare\endcsname
22931 }
22932 \renewcommand\deffootnote[4][1]{%
22933   \expandafter\ifnum\scr@v@is@ge{3.22}\relax
22934     \long\def\@makefntext##1{%
22935       \ExecuteDoHook{footnote/text/begin}%
22936       \raggedfootnote
22937       \if@RTL
22938         \rightskip
22939       \else
22940         \leftskip
22941       \fi
22942       #2
22943       \l@addto@macro\@trivlist{%
22944         \ifnum\@listdepth=\@one
22945           \if@RTL
22946             \advance\rightmargin #2\relax
22947           \else
22948             \advance\leftmargin #2\relax
22949           \fi

```



```

22950     \fi
22951   }%
22952   \parindent #3\noindent
22953   \IfArgIsEmpty{#1}{}%
22954     \hskip \dimexpr #1-#2\relax
22955   }%
22956   \ftn@font\hbox to \z@{\hss\@makefnmark}##1%
22957   \ExecuteDoHook{footnote/text/end}%
22958 }%
22959 \else
22960   \ClassInfo{KOMAClassName}{%
22961     Using old \string\@makefnmark\space due to compatibility
22962     level\MessageBreak
22963     less than 3.22}%
22964   \long\def\@makefnmark##1{%
22965     \setlength{\@tempdimc}{#3}%
22966     \def\@tempa{#1}\ifx\@tempa\@empty
22967       \setpar{\@par
22968         \@tempdima = \hspace
22969         \addtolength{\@tempdima}{-#2}%
22970         \if@RTL
22971           \parshape \@ne \z@ \@tempdima
22972         \else
22973           \parshape \@ne #2 \@tempdima
22974         \fi
22975       }%
22976     \else
22977       \addtolength{\@tempdimc}{#2}%
22978       \addtolength{\@tempdimc}{-#1}%
22979       \setpar{\@par
22980         \@tempdima = \hspace
22981         \addtolength{\@tempdima}{-#1}%
22982         \@tempdimb = \hspace
22983         \addtolength{\@tempdimb}{-#2}%
22984         \if@RTL
22985           \parshape \tw@ \z@ \@tempdima \z@ \@tempdimb
22986         \else
22987           \parshape \tw@ #1 \@tempdima #2 \@tempdimb
22988         \fi
22989       }%
22990     \fi
22991   \par
22992   \parindent\@tempdimc\noindent
22993   \ftn@font\hbox to \z@{\hss\@makefnmark}##1%
22994 }%
22995 \fi
22996 \def\@makefnmark{\hbox{\ftn@font{#4}}}%
22997 }
22998 \deffootnote[1em]{1.5em}{1em}{\textsuperscript{\thefootnotemark}}
22999 \renewcommand*\left@footnoterule{%
23000   \normalsize\ftn@rule@test@values
23001   \kern-\dimexpr 2.6\p@+\ftn@rule@height\relax
23002   \ifx\@textbottom\relax\else\vskip \z@ \@plus.05fil\fi
23003   {\usekomafont{footnoterule}}%

```



```

23004     \hrule \@height\ftn@rule@height \@width\ftn@rule@width}}%
23005 \kern 2.6\p@}
23006 \renewcommand*\right@footnoterule{%
23007   \normalsize\ftn@rule@test@values
23008   \kern-\dimexpr 2.6\p@+\ftn@rule@height\relax
23009   \ifx\@textbottom\relax\else\vskip \z@ \@plus.05fil\fi
23010   {\usekomafont{footnoterule}{%
23011     \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\ftn@rule@width\relax \leavevmode\
23012   \kern 2.6\p@}
23013 \renewcommand*\maketitle[1][1]{%
23014   \expandafter\ifnum \c@name scr@v@3.12\endcsname>\scr@compatibility\relax
23015   \else
23016     \def\and{%
23017       \end{tabular}%
23018       \hskip 1em \@plus.17fil%
23019       \begin{tabular}[t]{c}%
23020     }%
23021   \fi
23022   \if@titlepage
23023     \begin{titlepage}
23024       \setcounter{page}{%
23025         #1%
23026       }%
23027     \if@titlepageiscoverpage
23028       \edef\t@titlepage@restore{%
23029         \noexpand\endgroup
23030         \noexpand\global\noexpand\@colht\the\@colht
23031         \noexpand\global\noexpand\@colroom\the\@colroom
23032         \noexpand\global\vsizethe\vsizethe
23033         \noexpand\global\noexpand\@titlepageiscoverpagefalse
23034         \noexpand\let\noexpand\t@titlepage@restore\noexpand\relax
23035       }%
23036     \begingroup
23037       \topmargin=\dimexpr \coverpagetopmargin-1in\relax
23038       \oddsidemargin=\dimexpr \coverpageleftmargin-1in\relax
23039       \evensidemargin=\dimexpr \coverpageleftmargin-1in\relax
23040       \textwidth=\dimexpr
23041       \paperwidth-\coverpageleftmargin-\coverpagerightmargin\relax
23042       \textheight=\dimexpr
23043       \paperheight-\coverpagetopmargin-\coverpagebottommargin\relax
23044       \headheight=0pt
23045       \headsep=0pt
23046       \footskip=\baselineskip
23047       \@colht=\textheight
23048       \@colroom=\textheight
23049       \vsizethe\textheight
23050       \columnwidth=\textwidth
23051       \hsizethe\columnwidth
23052       \linewidth=\hsizethe
23053     \else
23054       \let\t@titlepage@restore\relax
23055     \fi
23056     \let\footnotesize\small
23057     \let\right@footnoterule\relax

```





```

23058 \let\left@footnoterule\relax
23059 \let\textwidth@footnoterule\relax
23060 \let\footnote\thanks
23061 \let\LTRfootnote\LTRthanks
23062 \let\RTLfootnote\RTLthanks
23063 \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
23064 \let\@oldmakefnmark\@makefnmark
23065 \renewcommand*\@makefnmark{\rlap\@oldmakefnmark}%
23066 \ifx\@extratitle\@empty
23067   \ifx\@frontispiece\@empty
23068   \else
23069     \if@twoside\mbox{}\next@tpage\fi
23070     \noindent\@frontispiece\next@tdpage
23071   \fi
23072 \else
23073   \noindent\@extratitle
23074   \ifx\@frontispiece\@empty
23075   \else
23076     \next@tpage
23077     \noindent\@frontispiece
23078   \fi
23079   \next@tdpage
23080 \fi
23081 \setparsizes{\z@}{\z@}{\z@\@plus 1fil}\par@updaterelative
23082 \ifx\@titlehead\@empty \else
23083   \begin{minipage}[t]{\textwidth}%
23084     \usekomafont{titlehead}{\@titlehead\par}%
23085   \end{minipage}\par
23086 \fi
23087 \null\vfill
23088 \begin{center}
23089   \ifx\@subject\@empty \else
23090     {\usekomafont{subject}{\@subject\par}}%
23091     \vskip 3em
23092   \fi
23093   {\usekomafont{title}{\huge \@title\par}}%
23094   \vskip 1em
23095   {\ifx\@subtitle\@empty\else\usekomafont{subtitle}{\@subtitle\par}\fi}%
23096   \vskip 2em
23097   {%
23098     \usekomafont{author}{%
23099       \lineskip 0.75em
23100       \begin{tabular}[t]{c}
23101         \@author
23102       \end{tabular}\par
23103     }%
23104   }%
23105   \vskip 1.5em
23106   {\usekomafont{date}{\@date \par}}%
23107   \vskip \z@ \@plus3fill
23108   {\usekomafont{publishers}{\@publishers \par}}%
23109   \vskip 3em
23110 \end{center}\par
23111 \@thanks\global\let\@thanks\@empty

```



```

23112 \vfill\null
23113 \if@twoside
23114 \@tempwattrue
23115 \expandafter\ifnum \@nameuse{scr@v03.12}>\scr@compatibility\relax
23116 \else
23117 \ifx\@uppertitleback\@empty\ifx\@lowertitleback\@empty
23118 \@tempwafalse
23119 \fi\fi
23120 \fi
23121 \if@tempswa
23122 \next@tpage
23123 \begin{minipage}[t]{\textwidth}
23124 \@uppertitleback
23125 \end{minipage}\par
23126 \vfill
23127 \begin{minipage}[b]{\textwidth}
23128 \@lowertitleback
23129 \end{minipage}\par
23130 \@thanks\global\let\@thanks\@empty
23131 \fi
23132 \else
23133 \ifx\@uppertitleback\@empty\else
23134 \ClassWarning{\KOMAClassName}{%
23135 non empty \string\uppertitleback\space ignored
23136 by \string\maketitle\MessageBreak
23137 in `twoside=false' mode%
23138 }%
23139 \fi
23140 \ifx\@lowertitleback\@empty\else
23141 \ClassWarning{\KOMAClassName}{%
23142 non empty \string\lowertitleback\space ignored
23143 by \string\maketitle\MessageBreak
23144 in `twoside=false' mode%
23145 }%
23146 \fi
23147 \fi
23148 \ifx\@dedication\@empty
23149 \else
23150 \next@tdpage\null\vfill
23151 {\centering\usekomafont{dedication}{\@dedication \par}}%
23152 \vskip \z@ \@plus3fill
23153 \@thanks\global\let\@thanks\@empty
23154 \cleardoubleemptypage
23155 \fi
23156 \ifx\titlepage@restore\relax\else\clearpage\titlepage@restore\fi
23157 \end{titlepage}
23158 \else
23159 \par
23160 \@tempcnta=%
23161 #1%
23162 \relax\ifnum\@tempcnta=1\else
23163 \ClassWarning{\KOMAClassName}{%
23164 Optional argument of \string\maketitle\space ignored\MessageBreak
23165 in `titlepage=false' mode%

```



```

23166     }%
23167 \fi
23168 \ifx\@uppertitleback\@empty\else
23169   \ClassWarning{\KOMAClassName}{%
23170     non empty \string\uppertitleback\space ignored
23171     by \string\maketitle\MessageBreak
23172     in `titlepage=false' mode%
23173   }%
23174 \fi
23175 \ifx\@lowertitleback\@empty\else
23176   \ClassWarning{\KOMAClassName}{%
23177     non empty \string\lowertitleback\space ignored
23178     by \string\maketitle\MessageBreak
23179     in `titlepage=false' mode%
23180   }%
23181 \fi
23182 \begingroup
23183   \let\titlepage@restore\relax
23184   \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
23185   \let\@oldmakefnmark\@makefnmark
23186   \renewcommand*{\@makefnmark}{\rlap\@oldmakefnmark}%
23187   \next@tdpage
23188   \if@twocolumn
23189     \ifnum \col@number=\@one
23190       \ifx\@extratitle\@empty
23191         \ifx\@frontispiece\@empty\else\if@twoside\mbox{}\fi\fi
23192       \else
23193         \@makeextratitle
23194       \fi
23195       \ifx\@frontispiece\@empty
23196         \ifx\@extratitle\@empty\else\next@tdpage\fi
23197       \else
23198         \next@tpage
23199         \@makefrontispiece
23200         \next@tdpage
23201       \fi
23202       \@maketitle
23203     \else
23204       \ifx\@extratitle\@empty
23205         \ifx\@frontispiece\@empty\else\if@twoside\mbox{}\fi\fi
23206       \else
23207         \twocolumn[\@makeextratitle]%
23208       \fi
23209       \ifx\@frontispiece\@empty
23210         \ifx\@extratitle\@empty\else\next@tdpage\fi
23211       \else
23212         \next@tpage
23213         \twocolumn[\@makefrontispiece]%
23214         \next@tdpage
23215       \fi
23216       \twocolumn[\@maketitle]%
23217     \fi
23218   \else
23219     \ifx\@extratitle\@empty

```



```

23220         \ifx\@frontispiece\@empty\else \mbox{ }\fi
23221     \else
23222         \@makeextratitle
23223     \fi
23224     \ifx\@frontispiece\@empty
23225         \ifx\@extratitle\@empty\else\next@tdpage\fi
23226     \else
23227         \next@tpage
23228         \@makefrontispiece
23229         \next@tdpage
23230     \fi
23231     \@maketitle
23232 \fi
23233     \ifx\titlepagestyle\@empty\else\thispagestyle{\titlepagestyle}\fi
23234     \@thanks\global\let\@thanks\@empty
23235 \endgroup
23236 \fi
23237 \setcounter{footnote}{0}%
23238 \expandafter\ifnum \cscname scr@v@3.12\endcscname>\scr@compatibility\relax
23239     \let\thanks\relax
23240     \let\LTRthanks\relax
23241     \let\RTLthanks\relax
23242     \let\maketitle\relax
23243     \let\@maketitle\relax
23244     \global\let\@thanks\@empty
23245     \global\let\@author\@empty
23246     \global\let\@date\@empty
23247     \global\let\@title\@empty
23248     \global\let\@subtitle\@empty
23249     \global\let\@extratitle\@empty
23250     \global\let\@frontispiece\@empty
23251     \global\let\@titlehead\@empty
23252     \global\let\@subject\@empty
23253     \global\let\@publishers\@empty
23254     \global\let\@uppertitleback\@empty
23255     \global\let\@lowertitleback\@empty
23256     \global\let\@dedication\@empty
23257     \global\let\author\relax
23258     \global\let\title\relax
23259     \global\let\extratitle\relax
23260     \global\let\titlehead\relax
23261     \global\let\subject\relax
23262     \global\let\publishers\relax
23263     \global\let\uppertitleback\relax
23264     \global\let\lowertitleback\relax
23265     \global\let\dedication\relax
23266     \global\let\date\relax
23267 \fi
23268 \global\let\and\relax
23269 }%
23270 \def\raggedsection{\if@RTL\raggedleft\else\raggedright\fi}
23271 \renewcommand*\autodot{\if@altsecnumformat\@SepMark\fi}
23272 \renewcommand*\thesection{%
23273     \thechapter\@SepMark%

```



```

23274 \@arabic\c@section
23275 }
23276 \renewcommand*\thesubsection{\thesection\@SepMark\@arabic\c@subsection}
23277 \renewcommand*\thesubsubsection{%
23278 \thesubsection\@SepMark\@arabic\c@subsubsection
23279 }
23280 \renewcommand*\theparagraph{\thesubsubsection\@SepMark\@arabic\c@paragraph}
23281 \renewcommand*\thesubparagraph{%
23282 \theparagraph\@SepMark\@arabic\c@subparagraph
23283 }
23284 \expandafter\ifnum\scr@v@is@le{2.97d}%
23285 \renewcommand*\thefigure{\thechapter\@SepMark\@arabic\c@figure}
23286 \fi
23287 \expandafter\ifnum\scr@v@is@le{2.97d}%
23288 \renewcommand*\thetable{\thechapter\@SepMark\@arabic\c@table}
23289 \fi
23290 \renewcommand*\theequation{%
23291 \thechapter\@SepMark%
23292 \@arabic\c@equation
23293 }
23294 \renewenvironment{thebibliography}[1]{%
23295 \if@bib@break@
23296 \bib@beginhook
23297 \else
23298 \ifx\bibpreamble\relax\else\ifx\bibpreamble@empty\else
23299 \setchapterpreamble{\bibpreamble}%
23300 \fi\fi
23301 \bib@heading
23302 \bib@beginhook
23303 \bib@before@hook
23304 \fi
23305 \renewcommand{\BreakBibliography}[1]{%
23306 \@bib@break
23307 \end{thebibliography}%
23308 \begingroup ##1\endgroup
23309 \begin{thebibliography}{#1}
23310 }%
23311 \if@RTL\if@LTRbibitems@RTLfalse\else\fi\else\if@RTLbibitems@RTLtrue\else\fi\fi
23312 \bidi@thebibliography@font@hook%
23313 \list{%
23314 \@biblabel{\@arabic\c@enumiv}%
23315 }{%
23316 \settowidth\labelwidth{\@biblabel{#1}}%
23317 \leftmargin\labelwidth
23318 \advance\leftmargin\labelsep
23319 \@openbib@code
23320 \if@bib@break@
23321 \edef\@tempa{%
23322 \noexpand\usecounter{enumiv}%
23323 \noexpand\setcounter{enumiv}{\the\c@enumiv}%
23324 }\@tempa
23325 \no@bib@break
23326 \else
23327 \usecounter{enumiv}%

```



```

23328 \fi
23329 \let\p@enumiv\@empty
23330 \renewcommand*\theenumiv{\@arabic\c@enumiv}%
23331 }%
23332 \sloppy\clubpenalty4000 \widowpenalty4000
23333 \sfcode`\.=\@m
23334 }{%
23335 \if@bib@break@
23336 \def\@noitemerr{%
23337 \latex@warning{%
23338 \string\BreakBibliography\space at begin of `thebibliography'
23339 environment\MessageBreak
23340 or following \string\BreakBibliography}%
23341 }%
23342 \else
23343 \def\@noitemerr{%
23344 \latex@warning{%
23345 Empty `thebibliography' environment or
23346 \string\BreakBibliography\MessageBreak
23347 before end of `thebibliography' environment}%
23348 }%
23349 \fi
23350 \endlist
23351 \if@bib@break@
23352 \else
23353 \bib@after@hook
23354 \let\bib@before@hook\@empty
23355 \let\bib@after@hook\@empty
23356 \fi
23357 \bib@endhook
23358 }
23359 \renewcommand*\raggeddictum{\if@RTL\raggedright\else\raggedleft\fi}
23360 \renewcommand*\raggeddictumtext{\if@RTL\raggedleft\else\raggedright\fi}
23361 \renewcommand*\raggeddictumauthor{\if@RTL\raggedright\else\raggedleft\fi}
23362 \renewcommand\marginline[1]{%
23363 \marginpar[\if@RTL\raggedright\else\raggedleft\fi{#1}]{\if@RTL\raggedleft\else\raggedright
23364 }
23365 \renewcommand{\@makecaption}[3]{%
23366 \cap@margin
23367 \begingroup
23368 \ifonelinecaptions
23369 \def\stepcounter##1{\advance\value{##1}\@ne}%
23370 \let\refstepcounter\stepcounter
23371 \let\label\@gobble
23372 \let\@footnotetext=\@gobble
23373 \let\@LTRfootnotetext=\@gobble
23374 \let\@RTLfootnotetext=\@gobble
23375 \let\hypertarget\@gobbletwo
23376 \edef\xnewline{%
23377 \unexpanded{\ClassInfo{\KOMAClassName}{%
23378 Workaround for not recommended usage of \string\\ or\MessageBreak
23379 \string\newline in caption text
23380 }%
23381 \hspace*{\linewidth}\hspace{1sp}}%

```



```

23382     }%
23383     \unexpanded\expandafter{\@xnewline}%
23384   }%
23385   \edef\@xcentercr{%
23386     \unexpanded{\ClassInfo{\KOMAClassName}{%
23387       Workaround for not recommended usage of \string\\ or\MessageBreak
23388       \string\newline in caption text
23389     }}%
23390     \hspace*{\linewidth}\hspace{1sp}%
23391   }%
23392   \unexpanded\expandafter{\@xcentercr}%
23393 }%
23394 \settowidth{\@tempdima}{\scr@makesinglelinecaption{#1}{#2}{#3}}%
23395 \ifdim\@tempdima>\cap@width
23396   \aftergroup\scr@makemultilinecaption
23397 \else
23398   \aftergroup\scr@makesinglelinecaption
23399 \fi
23400 \else
23401   \aftergroup\scr@makemultilinecaption
23402 \fi
23403 \endgroup
23404 {#1}{#2}{#3}%
23405 }
23406 \renewcommand{\scr@makesinglelinecaption}[3]{%
23407   {%
23408     \usefontofkomafont{caption}{%
23409       \hb@xt@\hsize{%
23410         \cap@left
23411         \if@RTL
23412           \beginR
23413           \fi
23414           \scr@makesinglelinecaption{#1}{#2}{#3}%
23415           \if@RTL
23416             \endR
23417           \fi
23418           \cap@right
23419         }\par\kern\dp\strutbox%
23420       }%
23421     }\kern-\dp\strutbox
23422 }
23423 \renewcommand{\@makecaption}[2]{%
23424   \if@captionabove
23425     \vskip\belowcaptionskip
23426   \else
23427     \vskip\abovecaptionskip
23428   \fi
23429   \@makecaption\@firstofone{#1}{#2}%
23430   \if@captionabove
23431     \vskip\abovecaptionskip
23432   \else
23433     \vskip\belowcaptionskip
23434   \fi
23435 }

```



```

23436
23437 \renewcommand{\scr@makesinglelinecaption}[3]{%
23438     {\usekomafont{caption}{\strut\ignorespaces
23439       #1{\usekomafont{captionlabel}{#2\captionformat}}}%
23440       \ignorespaces #3\unskip}}%
23441 }
23442
23443 \renewcommand{\scr@makemultilinecaption}[3]{%
23444     {%
23445       \usefontofkomafont{caption}{%
23446         \hb@xt@{hsize}{%
23447           \cap@left
23448           \vbox{\hsize\cap@width\linewidth\hsize
23449             \scr@ifundefinedorrelax{@capttype}{%
23450               \ClassWarning{\KOMAClassName}{%
23451                 `string\caption' outside float.\MessageBreak
23452                 Seems you are using `string\caption' outside a
23453                 float.\MessageBreak
23454                 Maybe you are using a package that uses
23455                 `string@makecaption'\MessageBreak
23456                 without setting `string@capttype' before.\MessageBreak
23457                 Because I cannot detect the caption type, I'm using\MessageBreak
23458                 the empty one.%
23459               }%
23460               \let@capttype\@empty
23461             }%
23462             \scr@ifundefinedorrelax[ragged@capttype caption]{\raggedcaption}{%
23463               \@nameuse{ragged@capttype caption}%
23464             }%
23465             \ifdofullc@p
23466               \@hangfrom{%
23467                 \strut
23468                 \scr@smashdp{%
23469                   #1{%
23470                     \usekomafont{caption}{%
23471                       \usekomafont{captionlabel}{#2\captionformat}%
23472                     }%
23473                   }%
23474                 }%
23475               }%
23476               {{\usekomafont{caption}{#3\scr@endstrut}}\par}%
23477             \else
23478               \ifdim\cap@indent<\z@
23479                 \strut
23480                 #1{%
23481                   {\usekomafont{caption}{%
23482                     \usekomafont{captionlabel}{#2\captionformat}%
23483                   }%
23484                 }\par}%
23485               \noindent{{\usekomafont{caption}{%
23486                 \hspace*{-\cap@indent}#3\scr@endstrut
23487               }}\par}%
23488             \else
23489               \if@capbreak

```





```

23490         \strut
23491         #1{%
23492             {\usekomafont{caption}}{%
23493                 \usekomafont{captionlabel}{#2\captionformat}}%
23494             }%
23495         }\par}%
23496         \noindent\@hangfrom{\hspace*{\cap@indent}}%
23497         {\usekomafont{caption}{#3\scr@endstrut}}\par}%
23498     \else
23499         \@hangfrom{\scr@smashdp\strut\hspace*{\cap@indent}}%
23500         {%
23501             \hspace{-\cap@indent}%
23502             \scr@smashdp{%
23503                 #1{\usekomafont{caption}}{%
23504                     \usekomafont{captionlabel}{#2\captionformat}}%
23505                 }%
23506             }%
23507         }%
23508         {\usekomafont{caption}{#3\scr@endstrut}}\par}%
23509     }%
23510     \fi
23511     \fi
23512     \fi
23513     }%
23514     \cap@right
23515     }\par\kern\dp\strutbox
23516     }%
23517     }\kern-\dp\strutbox
23518 }
23519
23520
23521 \bidi@AfterFile{longtable-xetex-bidi.def}{%
23522     \if@komalongtable
23523         \renewcommand{\LT@makecaption}[3]{%
23524             \noalign{%
23525                 \if@captionabove
23526                     \vskip\belowcaptionskip
23527                 \else
23528                     \vskip\abovecaptionskip
23529                 \fi
23530             }%
23531             \LT@mcol\LT@cols c{%
23532                 \hbox to\z@{\hss\parbox[t]{\linewidth}{%
23533                     \def\@captype{table}}%
23534                     \@makecaption{#1}{#2}{#3}}%
23535                 \endgraf
23536                 \if@captionabove
23537                     \vskip\abovecaptionskip
23538                 \else
23539                     \vskip\belowcaptionskip
23540                 \fi
23541             }%
23542             \hss
23543         }%

```



```

23544     }%
23545   }%
23546   \renewcommand*{\scr@LT@array}{}%
23547   \let\scr@LT@array=\LT@array
23548   \renewcommand*{\LT@array}{%
23549     \let\scr@caption=\LT@caption
23550     \def\captionabove{\noalign{\global\@captionabovetrue}%
23551       \scr@caption}%
23552     \def\captionbelow{\noalign{\global\@captionabovefalse}%
23553       \scr@caption}%
23554     \if@tablecaptionabove
23555       \let\LT@caption=\captionabove
23556     \else
23557       \let\LT@caption=\captionbelow
23558     \fi
23559     \scr@LT@array
23560   }%
23561   \ClassInfo{\KOMAClassName}{%
23562     longtable captions redefined%
23563   }%
23564 \fi
23565 }
23566
23567 \CloneTOCEntryStyle{tocline}{part}
23568 \TOCEntryStyleStartInitCode{part}{%
23569   \expandafter\renewcommand%
23570   \csname scr@tso@#1@linefill\endcsname{\hfill}%
23571   \expandafter\renewcommand%
23572   \csname scr@tso@#1@entryformat\endcsname[1]{\usekomafont{partentry}{##1}}%
23573   \expandafter\renewcommand%
23574   \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
23575     {\usekomafont{partentry}{\usekomafont{partentrypagenumber}{##1}}}%
23576   \expandafter\renewcommand\expandafter*%
23577   \csname scr@tso@#1@beforeskip\endcsname{2.25em \@plus\p@}%
23578 }
23579
23580 \CloneTOCEntryStyle{tocline}{chapter}
23581 \TOCEntryStyleStartInitCode{chapter}{%
23582   \expandafter\renewcommand%
23583   \csname scr@tso@#1@linefill\endcsname{%
23584     \if@chapterentrywithdots
23585       {\usekomafont{chapterentrydots}{\TOCLineLeaderFill}}\relax
23586     \else
23587       \hfill
23588     \fi
23589   }%
23590   \expandafter\renewcommand%
23591   \csname scr@tso@#1@entryformat\endcsname{\usekomafont{chapterentry}}%
23592   \expandafter\renewcommand%
23593   \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
23594     {\usekomafont{chapterentry}{\usekomafont{chapterentrypagenumber}{##1}}}%
23595   \expandafter\renewcommand\expandafter*%
23596   \csname scr@tso@#1@beforeskip\endcsname{1.0em \@plus\p@}%
23597 }

```



```

23598
23599 \CloneTOCEntryStyle{tocline}{section}
23600 \TOCEntryStyleStartInitCode{section}{%
23601   \expandafter\renewcommand%
23602   \csname scr@tso@#1@linefill\endcsname{\TOCLineLeaderFill\relax}%
23603   \expandafter\renewcommand%
23604   \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
23605     {\normalfont\normalcolor ##1}}%
23606 }
23607
23608 \CloneTOCEntryStyle{section}{default}
23609
23610 \DeclareSectionCommand[%
23611   style=chapter,%
23612   level=\z@,%
23613   pagestyle=plain,%
23614   tocstyle=chapter,%
23615   tocindent=\z@,%
23616   tocnumwidth=1.5em%
23617 ]{chapter}
23618 \DeclareSectionCommand[%
23619   style=section,%
23620   level=1,%
23621   indent=\z@,%
23622   beforekip=-3.5ex \@plus -1ex \@minus -.2ex,%
23623   afterskip=2.3ex \@plus .2ex,%
23624   tocstyle=section,%
23625   tocindentfollows=chapter,%
23626   tocindent=1.5em,%
23627   tocnumwidth=2.3em%
23628 ]{section}
23629 \DeclareSectionCommand[%
23630   style=part,%
23631   level=\m@ne,%
23632   pagestyle=plain,%
23633   tocstyle=part,%
23634   toclevel=\m@ne,%
23635   tocindent=\z@,%
23636   tocnumwidth=2em%
23637 ]{part}
23638 \DeclareSectionCommand[%
23639   style=section,%
23640   level=2,%
23641   indent=\z@,%
23642   beforekip=-3.25ex \@plus -1ex \@minus -.2ex,%
23643   afterskip=1.5ex \@plus .2ex,%
23644   tocstyle=section,%
23645   tocindent=3.8em,%
23646   tocnumwidth=3.2em%
23647 ]{subsection}
23648 \DeclareSectionCommand[%
23649   style=section,%
23650   level=3,%
23651   indent=\z@,%

```



```

23652 beforekip=-3.25ex \@plus -1ex \@minus -.2ex,%
23653 afterskip=1.5ex \@plus .2ex,%
23654 tocstyle=section,%
23655 tocindent=7.0em,%
23656 tocnnumwidth=4.1em%
23657 ]{subsubsection}
23658 \DeclareSectionCommand[%
23659 style=section,%
23660 level=4,%
23661 indent=\z@,%
23662 beforekip=3.25ex \@plus1ex \@minus .2ex,%
23663 afterskip=-1em,%
23664 tocindentfollows=subsubsection,%
23665 tocstyle=section,%
23666 tocindent=10em,%
23667 tocnnumwidth=5em%
23668 ]{paragraph}
23669 \DeclareSectionCommand[%
23670 style=section,%
23671 level=5,%
23672 indent=\scr@parindent,%
23673 beforekip=3.25ex \@plus1ex \@minus .2ex,%
23674 afterskip=-1em,%
23675 tocstyle=section,%
23676 tocindent=12em,%
23677 tocnnumwidth=6em%
23678 ]{subparagraph}

```

## 144 File sidecap-xetex-bidi.def

```

23679 \ProvidesFile{sidecap-xetex-bidi.def}[2025/01/03 v0.2 bidi adaptations for sidecap package]
23680 \RequirePackage{ragged2e}
23681 \renewcommand*{\SC@FLOAT}[2]{\if@RTL%
23682   \isSC@ODD{#1}\hspace{\sidecaptionsep}{#2}} {{#2}\hspace{\sidecaptionsep}{#1}}\else%
23683 \isSC@ODD{#2}\hspace{\sidecaptionsep}{#1}} {{#1}\hspace{\sidecaptionsep}{#2}}\fi}
23684 \renewcommand*{\SC@justify@caption}{\if@RTL%
23685 \isSC@ODD{\RaggedLeft}{\RaggedRight}}\else%
23686 \isSC@ODD{\RaggedRight}{\RaggedLeft}}\fi}
23687
23688 \@ifpackagewith{sidecap}{innercaption}{%
23689 \if@RTL \renewcommand*{\SC@FLOAT}[2]{%
23690   \isSC@ODD{#2}\hspace{\sidecaptionsep}{#1}} {{#1}\hspace{\sidecaptionsep}{#2}}}}
23691 \renewcommand*{\SC@justify@caption}{%
23692   \isSC@ODD{\RaggedRight}{\RaggedLeft}}\else
23693 \renewcommand*{\SC@FLOAT}[2]{%
23694   \isSC@ODD{#1}\hspace{\sidecaptionsep}{#2}} {{#2}\hspace{\sidecaptionsep}{#1}}}}
23695 \renewcommand*{\SC@justify@caption}{%
23696   \isSC@ODD{\RaggedLeft}{\RaggedRight}}\fi}
23697 }{}
23698
23699 \@ifpackagewith{sidecap}{rightcaption}{%
23700 \if@RTL \renewcommand*{\SC@FLOAT}[2]{{#1}\hspace{\sidecaptionsep}{#2}}
23701 \def\SC@justify@caption{\RaggedLeft}}\else%
23702 \renewcommand*{\SC@FLOAT}[2]{{#2}\hspace{\sidecaptionsep}{#1}}

```



```

23703 \def\SC@justify@caption{\RaggedRight}\fi%
23704 }{}
23705
23706 \@ifpackagewith{sidecap}{leftcaption}{%
23707 \if@RTL \renewcommand*\SC@FLOAT}[2][2]{\hspace{\sidecaptionsep}{#1}}
23708 \def\SC@justify@caption{\RaggedRight}\else%
23709 \renewcommand*\SC@FLOAT}[2][1]{\hspace{\sidecaptionsep}{#2}}
23710 \def\SC@justify@caption{\RaggedLeft}\fi%
23711 }{}

```

## 145 File soul-xetex-bidi.def

```

23712 \ProvidesFile{soul-xetex-bidi.def}[2015/10/16 v0.1 bidi adaptations for soul package for XeT
23713 \long\def\SOUL@start#1{%
23714 \let\bidi@RTL@everypar@empty
23715 \let\<\SOUL@lowerthan
23716 \let\>\empty
23717 \def\soulomit{\noexpand\soulomit}%
23718 \gdef\SOUL@eventuallyexhyphen##1{%
23719 \let\SOUL@soeventuallyskip\relax
23720 \SOUL@spaceskip=\fontdimen\tw@\font\@plus\fontdimen\thr@\font
23721 \@minus\fontdimen4\font
23722 \SOUL@ignorespacesfalse
23723 \leavevmode
23724 \SOUL@preamble
23725 \SOUL@lasttoken={}%
23726 \SOUL@word={}%
23727 \SOUL@minus\z@
23728 \SOUL@comma\z@
23729 \SOUL@apo\z@
23730 \SOUL@grave\z@
23731 \SOUL@do{#1}%
23732 \SOUL@postamble
23733 }}
23734 \def\SOUL@ulunderline#1{%
23735 \setbox\z@\hbox{#1}%
23736 \dimen@=\wd\z@
23737 \dimen@i=\SOUL@uloverlap
23738 \advance\dimen@2\dimen@i
23739 \if@RTL
23740 \unhcopy\z@
23741 \llap{%
23742 \null
23743 \kern-\dimen@i
23744 \SOUL@ulcolor{\SOUL@ulleaders\hskip\dimen@}%
23745 }%
23746 \else
23747 \rlap{%
23748 \null
23749 \kern-\dimen@i
23750 \SOUL@ulcolor{\SOUL@ulleaders\hskip\dimen@}%
23751 }%
23752 \unhcopy\z@
23753 \fi

```



```

23754 }}
23755 \def\bidi@SOUL@ulleaders{%
23756   \leaders\hb@xt@0.1pt{\hss\SOUL@ulcolor{\vrule@depth\SOUL@uldp@height\SOUL@ulht}\hss}\n
23757 }
23758 \def\SOUL@uleveryspace#1{%
23759   \ifRTL
23760     #1%
23761     \bidi@SOUL@ulleaders
23762     \hskip\spaceskip
23763   \else
23764     \SOUL@ulcolor{%
23765       #1%
23766       \SOUL@ulleaders
23767       \hskip\spaceskip
23768     }%
23769   \fi
23770   \null
23771 }

```

## 146 File stabular-xetex-bidi.def

```

23772 \ProvidesFile{stabular-xetex-bidi.def}[2015/11/07 v0.3 bidi adaptations for stabular package]
23773 \def\@stabular{%
23774   \leavevmode \bgroup \ifRTLT\beginR \fi
23775   \let\@acol\@tabacol
23776   \let\@classz\@tabclassz
23777   \let\@classiv\@tabclassiv \let\\\@tabularcr\@stabarray}
23778 \def\endstabular{\crcr\egroup\ifRTLT\egroup\endR\egroup\fi
23779   \egroup \ifRTLT\endR\fi\egroup}
23780 \expandafter \let \csname endstabular*\endcsname = \endstabular
23781 \def\@sarray[#1]#2{%
23782   \bgroup
23783   \setbox\@arstrutbox\hbox{%
23784     \vrule \@height\arraystretch\ht\strutbox
23785     \@depth\arraystretch \dp\strutbox
23786     \@width\z@}%
23787   \@mkpream{#2}%
23788   \edef\@preamble{%
23789     \ialign \noexpand\@halignto
23790       \bgroup \@arstrut \@preamble \tabskip\z@skip \cr}%
23791   \let\@startpbox\@startpbox \let\@endpbox\@endpbox
23792   \let\@tabularnewline\%
23793   \let\@sharp##%
23794   \set@typeset@protect
23795   \lineskip\z@skip\baselineskip\z@skip
23796   \ifRTLT\hbox\bgroup\beginR\@hboxRconstructtrue\if #1t\vtop \else \vbox \fi\bgroup\fi
23797   \@preamble}

```

## 147 File subfigure-xetex-bidi.def

```

23798 \ProvidesFile{subfigure-xetex-bidi.def}[2010/03/01 v0.1 bidi adaptations for subfigure packa
23799 \AtBeginDocument{%
23800 \let\p@subfigure=\thefigure
23801 \let\p@subtable=\thetable%

```



23802 }

## 148 File `tabls-xetex-bidi.def`

```
23803 \ProvidesFile{tabls-xetex-bidi.def}[2015/11/07 v0.3 bidi adaptations for tabls package for X
23804 \def\endtabular{\endarray $\if@RTLtab\endR\fi\egroup}
23805
23806 \expandafter\let\csname endtabular*\endcsname=\endtabular
23807
23808 \def\endarray{\ifvmode\csname crrc\endcsname % just do \crrc if \ given
23809 \else \[\z@ \global\advance\@arstdepth-\@otarlinesep]%
23810 \fi\egroup\if@RTLtab\egroup\endR\egroup\fi\@unrecurse\egroup}
23811
23812 \def\@array[#1]#2{% remember global variables to allow recursion:
23813 \edef\@unrecurse{\global\@skip@bove\the\@skip@bove
23814 \global\@arstheight\the\@arstheight\global\@arstdepth\the\@arstdepth}%
23815 \let\@otarlinesep\@tarlinesep \global\@skip@bove-\@otarlinesep
23816 \ifx\@classz\@arrayclassz \let\@tarlinesep\arraylinesep
23817 \else \let\@tarlinesep\tablinese \fi
23818 \divide\@tarlinesep\tw@ % half sep is applied to height & depth
23819 \let\@seesize\relax \let\@rememsize\relax \mkpream{#2}%
23820 \@tempdima\arraystretch\ht\strutbox \@tempdimb\arraystretch\dp\strutbox
23821 \ifdim\@tarlinesep>\z@ % (need \protect for \multicolumn)
23822 \def\@rememsize{\protect\@r@m@size}\let\@seesize\@s@@size
23823 \advance\@tempdima-\@tarlinesep \advance\@tempdimb-\@tarlinesep
23824 \fi \setbox\@arstrutbox\hbox{% set up smaller strut
23825 \vrule \@height\@tempdima \@depth\@tempdimb \@width\z@}%
23826 \let\protect\noexpand
23827 \edef\@preamble{\ialign \noexpand\@halignto \bgroup
23828 \unhcopy\@arstrutbox \@preamble \tabskip\z@skip &\@sharp \cr}%
23829 \let\@startpbox\@startpbox \let\@endpbox\@endpbox
23830 \if#1t\vtop \else \if#1b\vbox \else \vcenter \fi\fi
23831 \bgroup \let\par\empty
23832 \global\@arstheight\ht\@arstrutbox \global\@arstdepth\dp\@arstrutbox
23833 \advance\extrarulesep.5\arrayrulewidth
23834 \let\@sharp##\let\protect\relax \lineskip\z@skip \baselineskip\z@skip
23835 \if@RTLtab\hbox\bgroup\beginR\@hboxRconstructtrue\if#1t\vtop \else \vbox \fi\bgroup\fi
23836 \@preamble}
```

## 149 File `tabularx-xetex-bidi.def`

```
23837 \ProvidesFile{tabularx-xetex-bidi.def}[2014/11/08 v0.1 bidi adaptations for tabularx package
23838 \def\TX@endtabularx{%
23839 \expandafter\expandafter\expandafter
23840 \TX@find@endtabularxa\csname end\TX@\endcsname
23841 \endtabularx\TX@\endtabularx\TX@find@endtabularxa
23842 \expandafter\TX@newcol\expandafter{\tabularxcolumn{\TX@col@width}}%
23843 \let\verb\TX@verb
23844 \def\@elt##1{\global\value{##1}\the\value{##1}\relax}%
23845 \edef\TX@ckpt{\cl@ckpt}%
23846 \let\@elt\relax
23847 \TX@old@table\maxdimen
23848 \TX@col@width\TX@target
23849 \global\TX@cols\@ne
```



```

23850 \TX@typeout@
23851   {\@spaces Table Width\@spaces Column Width\@spaces X Columns}%
23852 \TX@trial{\def\NC@rewrite@X{%
23853   \global\advance\TX@cols\@ne\NC@find p{\TX@col@width}}}%
23854 \loop
23855   \TX@arith
23856   \ifTX@
23857   \TX@trial{%
23858 \repeat
23859 {\let\@footnotetext\TX@ftntext\let\@xfootnotenext\TX@xftntext
23860 \let\@LTRfootnotetext\TX@LTRftntext\let\@xLTRfootnotenext\TX@xLTRftntext
23861 \let\@RTLfootnotetext\TX@RTLftntext\let\@xRTLfootnotenext\TX@xRTLftntext
23862 \csname tabular*\expandafter\endcsname\expandafter\TX@target
23863 \the\toks@
23864 \csname endtabular*\endcsname}%
23865 \global\TX@ftn\expandafter{\expandafter}\the\TX@ftn
23866 \ifnum0=\fi}%
23867 \expandafter\expandafter\expandafter
23868 \TX@find@endtabularxbb
23869 \expandafter\end\expandafter{\TX@}%
23870 \endtabularx\TX@\endtabularx\TX@find@endtabularxb
23871 }
23872
23873 \def\TX@trial#1{%
23874 \setbox\@tempboxa\hbox{%
23875 #1\relax
23876 \let\@footnotetext\TX@trial@ftn
23877 \let\@LTRfootnotetext\TX@trial@ftn
23878 \let\@RTLfootnotetext\TX@trial@ftn
23879 \let\TX@vwarn\@empty
23880 \expandafter\let\expandafter\tabularx\csname tabular*\endcsname
23881 \expandafter\let\expandafter\endtabularx\csname endtabular*\endcsname
23882 \def\write{\begingroup
23883 \def\let{\afterassignment\endgroup\toks@}%
23884 \afterassignment\let\count@}%
23885 \hbadness\@M
23886 \hfuzz\maxdimen
23887 \let\hbadness\@tempcnta
23888 \let\hfuzz\@tempdima
23889 \expandafter\tabular\the\toks@
23890 \endtabular}%
23891 \TX@ckpt
23892 \TX@typeout@{\@spaces
23893 \expandafter\TX@align
23894 \the\wd\@tempboxa\space\space\space\space\space\@@
23895 \expandafter\TX@align
23896 \the\TX@col@width\space\space\space\space\space\@@
23897 \@spaces\the\TX@cols}}
23898
23899 \long\def\TX@LTRftntext#1{%
23900 \edef\@tempa{\the\TX@ftn\noexpand\LTRfootnotetext
23901 [\the\csname c@\@mpfn\endcsname]}%
23902 \global\TX@ftn\expandafter{\@tempa{#1}}}%
23903 \long\def\TX@xLTRftntext[#1]#2{%

```





```

23904 \global\TX@ftn\expandafter{\the\TX@ftn\LTRfootnotetext[#1]{#2}}
23905
23906 \long\def\TX@RTLftntext#1{%
23907 \edef\@tempa{\the\TX@ftn\noexpand\RTLfootnotetext
23908 [\the\csname c@\mpfn\endcsname]}%
23909 \global\TX@ftn\expandafter{\@tempa{#1}}}%
23910 \long\def\TX@xRTLftntext[#1]#2{%
23911 \global\TX@ftn\expandafter{\the\TX@ftn\RTLfootnotetext[#1]{#2}}

```

## 150 File tabulary-xetex-bidi.def

```

23912 \ProvidesFile{tabulary-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for tabulary package]
23913 \def\@testpach{\@chclass
23914 \ifnum \@lastchclass=6 \@ne \@chnum \@ne \else
23915 \ifnum \@lastchclass=7 5 \else
23916 \ifnum \@lastchclass=8 \tw@ \else
23917 \ifnum \@lastchclass=9 \thr@@
23918 \else \z@
23919 \ifnum \@lastchclass = 10 \else
23920 \edef\@nextchar{\expandafter\string\@nextchar}%
23921 \@chnum
23922 \if \@nextchar c\z@ \else
23923 \if \@nextchar \if@RTLtab r\else l\fi\@ne \else
23924 \if \@nextchar \if@RTLtab l\else r\fi\@tw@ \else
23925 \if \@nextchar C7 \else
23926 \if \@nextchar L8 \else
23927 \if \@nextchar R9 \else
23928 \if \@nextchar J10 \else
23929 \z@ \@chclass
23930 \if\@nextchar |\@ne \else
23931 \if \@nextchar !6 \else
23932 \if \@nextchar @7 \else
23933 \if \@nextchar <8 \else
23934 \if \@nextchar >9 \else
23935 10
23936 \@chnum
23937 \if \@nextchar m\thr@@\else
23938 \if \@nextchar p4 \else
23939 \if \@nextchar b5 \else
23940 \z@ \@chclass \z@ \@preamerr \z@ \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi
23941 \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi

```

## 151 File tc-xetex-bidi.def

```

23942 \ProvidesFile{tc-xetex-bidi.def}[2014/07/08 v0.1 bidi adaptations for Clipping driver for Xe
23943 \def\@cliptoboxdim#1{%
23944 \setbox#1=\hbox{%
23945 \Gin@defaultbp\WIDTH{\wd#1}%
23946 \Gin@defaultbp\DEPTH{\dp#1}%
23947 \@tempdima\ht#1%
23948 \advance\@tempdima\dp#1%
23949 \Gin@defaultbp\TOTALHEIGHT{\@tempdima}%
23950 \beginL\special{pdf:bcontent }%
23951 \special{%

```



```

23952         pdf:literal direct
23953         0 -\DEPTH\space \WIDTH\space \TOTALHEIGHT\space re
23954     }%
23955     \special{pdf:literal direct W }%
23956     \special{pdf:literal direct n }%
23957         \if@RTL\beginR\fi\box#1\if@RTL\endR\fi%
23958     \special{pdf:econtent }\endL%
23959 }%
23960 }

```

## 152 File tcolorbox-xetex-bidi.def

```

23961 \ProvidesFile{tcolorbox-xetex-bidi.def}[2018/11/11 v0.2 bidi adaptations for tcolorbox package]
23962 \let\endtcbox@lrbox=\endminipage
23963 \let\endtcbox@savebox=\endtcbox@lrbox
23964
23965 \bidi@patchcmd{\tcb@vbox}{%
23966   \let\@footnotetext\@mpfootnotetext%
23967 }{%
23968   \let\@footnotetext\@mpfootnotetext%
23969   \let\@LTRfootnotetext\@mpLTRfootnotetext%
23970   \let\@RTLfootnotetext\@mpRTLfootnotetext%
23971 }{}{}
23972
23973 \bidi@patchcmd{\endtcbox@vbox}{%
23974   \footnoterule%
23975 }{%
23976   \bidi@mpfootnoterule%
23977 }{}{}
23978 \bidi@apptocmd\tcb@@icolorbox{%
23979   \@bidi@list@minipage@parboxfalse
23980 }{}{}

```

## 153 File titlesec-xetex-bidi.def

```

23981 \ProvidesFile{titlesec-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for titlesec package]
23982 \renewcommand\filright{%
23983   \gdef\ttl@filleft##1{\hskip##1}%
23984   \gdef\ttl@filright##1{\hfill}%
23985   \let\\\@centercr
23986   \advance\rightskip\z@ \@plus 1fil
23987   \parfillskip\z@}
23988 \def\ttlh@hang#1#2#3#4#5#6#7#8{%
23989   \gdef\ttl@makeline##1{\ttl@calc\hspace{#6}##1\ttl@calc\hspace{#7}}%
23990   \setlength\leftskip{#6}%
23991   \setlength\rightskip{#7}%
23992   \interlinepenalty\@M
23993   \ttl@changecentercr
23994   \ttl@beginlongest
23995   #1\ifhmode\ttl@hmode@error\fi
23996   \ttl@glcmds
23997   \parindent\z@
23998   \leavevmode
23999   \begingroup

```



```

24000     \ifttl@label
24001         \sbox\z@{#2\strut\ttl@calc\hspace{#3}}%
24002         \if@RTL\advance\rightskip\wd\z@\else\advance\leftskip\wd\z@\fi
24003         \llap{\box\z@}%
24004     \fi
24005     #4{#8}%
24006     \kern\z@\strut\@@par
24007 \endgroup
24008     \nobreak\ttl@midlongest#5\@@par}%
24009 \ttl@endlongest}

```

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

```

24010 \ProvidesFile{titletoc-xetex-bidi.def}[2013/04/10 v0.2 bidi adaptations for titletoc package]
24011 \renewcommand\filright{%
24012   \gdef\ttl@filleft##1{\hskip##1}%
24013   \gdef\ttl@filright##1{\hfill}%
24014   \let\\\@centercr
24015   \advance\rightskip\z@ \@plus 1fil
24016 \parfillskip\z@}
24017 \renewcommand\contentspush[1]{%
24018   \sbox\z@{#1}%
24019   \xdef\ttl@b{\advance\if@RTL\rightskip\else\leftskip\fi\the\wd\z@}%
24020   \aftergroup\ttl@b
24021   \leavevmode\llap{\box\z@}}
24022 \def\ttl@outnoblock#1#2#3{%
24023   \begingroup
24024   \ifnum\ttl@b>\ttl@a
24025     \nobreak
24026   \else\ifnum\ttl@b<\ttl@a
24027     \addpenalty{\@secpenalty}%
24028   \else
24029     \addpenalty{\z@}%
24030   \fi\fi
24031   \ttl@contentsstretch
24032   \nobreak
24033   \ifcase#1\relax\else\interlinepenalty\@M\fi
24034   \parindent\z@
24035   \ifx\@nil#2%
24036     \PackageError{titletoc}{Unimplemented}%
24037     {The optional argument is currently mandatory}%
24038   \else
24039     \if@RTL\setlength\rightskip{#2}\else
24040     \setlength\leftskip{#2}\fi%
24041   \fi
24042   \if@RTL\setlength\leftskip{\@pnumwidth}\else\setlength\rightskip{\@pnumwidth}\fi%
24043   \let\contentsmargin\ttl@margin
24044   \def\ttl@makeline##1{##1}%
24045   #3%
24046   \addtolength{\parfillskip}{-\ttl@corr}%
24047   \if@RTL\addtolength{\leftskip}{\ttl@corr}\else\addtolength{\rightskip}{\ttl@corr}\fi%
24048   \let\ttl@leaders\leaders}
24049 \renewcommand\ttl@margin[2][\z@]{%
24050   \def\ttl@corr{#1}%

```



```

24051 \advance\if@RTL\leftskip\else\rightskip\fi-\@pnumwidth\relax
24052 \advance\if@RTL\leftskip\else\rightskip\fi#2\relax
24053 \def\@pnumwidth{#2}}
24054 \let\ttl@savel@part\l@part
24055 \def\l@part{\ttl@lselect{part}}
24056
24057 \let\ttl@savel@chapter\l@chapter
24058 \def\l@chapter{\ttl@lselect{chapter}}

```

## 155 File tocbibind-xetex-bidi.def

```

24059 \ProvidesFile{tocbibind-xetex-bidi.def}[2025/01/03 v0.5 bidi adaptations for tocbibind packa
24060 \IfClassLoadedT{memoir}{\endinput}
24061 \if@dotocbib
24062 \ApplyPatchIfPackageLoadedF{natbib}{% natbib not loaded
24063 \renewcommand{\bibsection}{\t@cb@bchapsec}
24064 \renewenvironment{thebibliography}[1]{%
24065 \bibsection
24066 \begin{thebibitemlist}{#1}}{\end{thebibitemlist}}}
24067 \renewenvironment{thebibitemlist}[1]{
24068 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
24069 \bidi@@thebibliography@font@hook%
24070 \list{\@biblabel{\@arabic@c@enumiv}}%
24071 {\settowidth\labelwidth{\@biblabel{#1}}%
24072 \leftmargin\labelwidth
24073 \advance\leftmargin\labelsep
24074 \@openbib@code
24075 \usecounter{enumiv}%
24076 \let\p@enumiv\@empty
24077 \renewcommand\theenumiv{\@arabic@c@enumiv}}%
24078 \sloppy
24079 \clubpenalty4000
24080 \@clubpenalty \clubpenalty
24081 \widowpenalty4000%
24082 \sfcode`. \.\@m}
24083 {\def\@noitemerr
24084 {\@latex@warning{Empty `thebibliography' environment}}}%
24085 \endlist}
24086
24087 \ApplyPatchCodeToPackage{chapterbib}{%
24088 \@ifpackagewith{chapterbib}{sectionbib}%
24089 {\renewcommand{\sectionbib}[2]{}%
24090 {}%
24091 }
24092
24093 \fi
24094 \if@inltxdoc\else
24095 \renewenvironment{theindex}%
24096 {\if@twocolumn
24097 \@restonecolfalse
24098 \else
24099 \@restonecoltrue
24100 \fi
24101 \if@bibchapter

```



```

24102     \if@donumindex
24103         \refstepcounter{chapter}
24104         \twocolumn[\vspace*{2\topskip}%
24105             \@makechapterhead{\indexname}]%
24106         \addcontentsline{toc}{chapter}{\protect\numberline{\thechapter}\indexname}
24107         \chaptermark{\indexname}
24108     \else
24109         \if@dotocind
24110             \twocolumn[\vspace*{2\topskip}%
24111                 \@makeschapterhead{\indexname}]%
24112             \prw@mkboth{\indexname}
24113             \addcontentsline{toc}{chapter}{\indexname}
24114         \else
24115             \twocolumn[\vspace*{2\topskip}%
24116                 \@makeschapterhead{\indexname}]%
24117             \prw@mkboth{\indexname}
24118         \fi
24119     \fi
24120 \else
24121     \if@donumindex
24122         \twocolumn[\vspace*{-1.5\topskip}%
24123             \@nameuse{\@tocextra}{\indexname}]%
24124         \csname \@tocextra mark\endcsname{\indexname}
24125     \else
24126         \if@dotocind
24127             \twocolumn[\vspace*{-1.5\topskip}%
24128                 \toc@headstar{\@tocextra}{\indexname}]%
24129             \prw@mkboth{\indexname}
24130             \addcontentsline{toc}{\@tocextra}{\indexname}
24131         \else
24132             \twocolumn[\vspace*{-1.5\topskip}%
24133                 \toc@headstar{\@tocextra}{\indexname}]%
24134             \prw@mkboth{\indexname}
24135         \fi
24136     \fi
24137 \fi
24138 \thispagestyle{plain}\parindent\z@
24139 \parskip\z@ \@plus .3\p@\relax
24140 \let\item\@idxitem}
24141 {\if@restonecol\onecolumn\else\clearpage\fi}
24142 \fi

```

## 156 File `tocloft-xetex-bidi.def`

```

24143 \ProvidesFile{tocloft-xetex-bidi.def}[2025/01/03 v0.4 bidi adaptations for tocloft package f
24144 \IfClassLoadedT{memoir}{\endinput}
24145 \renewcommand{\cftpnumalign}{\if@RTL l\else r\fi}
24146 \let\cftdot@SepMark
24147 \if@cfthaspart
24148 \renewcommand*{\l@part}[2]{
24149     \@cftdopartfalse
24150     \ifnum \c@tocdepth >-2\relax
24151         \if@cfthaschapter
24152             \@cftdoparttrue

```



```

24153 \fi
24154 \ifnum \c@tocdepth >\m@ne
24155 \if@cfthaschapter\else
24156 \cftdoparttrue
24157 \fi
24158 \fi
24159 \fi
24160 \if@cftdopart
24161 \if@cfthaschapter
24162 \addpenalty{-\@highpenalty}
24163 \else
24164 \addpenalty\@secpenalty
24165 \fi
24166 \addvspace{\cftbeforepartskip}
24167 \begingroup
24168 {\if@RTL\rightskip\else\leftskip\fi \cftpartindent\relax
24169 \if@RTL\leftskip\else\rightskip\fi \@tocrmarg
24170 \parfillskip -\if@RTL\leftskip\else\rightskip\fi
24171 \parindent \cftpartindent\relax\@afterindenttrue
24172 \interlinepenalty\@M
24173 \leavevmode
24174 \@tempdima \cftpartnumwidth\relax
24175 \let\@cftbsnum \cftpartpresnum
24176 \let\@cftasnum \cftpartaftersnum
24177 \let\@cftasnumb \cftpartaftersnumb
24178 \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\ri
24179 {\cftpartfont \cftpartpresnum #1}
24180 \cftpartfillnum{#2}}
24181 \nobreak
24182 \if@cfthaschapter
24183 \global\@nobreaktrue
24184 \everypar{\global\@nobreakfalse\everypar{}}
24185 \else
24186 \if@compatibility
24187 \global\@nobreaktrue
24188 \everypar{\global\@nobreakfalse\everypar{}}
24189 \fi
24190 \fi
24191 \endgroup
24192 \fi}
24193 \fi
24194 \if@cfthaschapter
24195 \renewcommand*\l@chapter}[2]{
24196 \ifnum \c@tocdepth >\m@ne
24197 \addpenalty{-\@highpenalty}
24198 \vskip \cftbeforechapskip
24199 {\if@RTL\rightskip\else\leftskip\fi \cftchapindent\relax
24200 \if@RTL\leftskip\else\rightskip\fi \@tocrmarg
24201 \parfillskip -\if@RTL\leftskip\else\rightskip\fi
24202 \parindent \cftchapindent\relax\@afterindenttrue
24203 \interlinepenalty\@M
24204 \leavevmode
24205 \@tempdima \cftchapnumwidth\relax
24206 \let\@cftbsnum \cftchappresnum

```



```

24207 \let\@cftasnum \cftchapaftersnum
24208 \let\@cftasnumb \cftchapaftersnumb
24209 \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\right
24210 {\cftchapfont #1}\nobreak
24211 \cftchapfillnum{#2}}
24212 \fi}
24213 \fi
24214 \renewcommand*\l@section}[2]{%
24215 \ifnum \c@tocdepth >\z@
24216 \ifcftaschapter
24217 \vskip \cftbeforesecskip
24218 \else
24219 \addpenalty\@secpenalty
24220 \advspace{\cftbeforesecskip}
24221 \fi
24222 {\if@RTL\rightskip\else\leftskip\fi \cftsecindent\relax
24223 \if@RTL\leftskip\else\rightskip\fi \@tocrmarg
24224 \parfillskip -\if@RTL\leftskip\else\rightskip\fi
24225 \parindent \cftsecindent\relax\@afterindenttrue
24226 \interlinepenalty\@M
24227 \leavevmode
24228 \@tempdima \cftsecnumwidth\relax
24229 \let\@cftbsnum \cftsecpresnum
24230 \let\@cftasnum \cftsecaftersnum
24231 \let\@cftasnumb \cftsecaftersnumb
24232 \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\right
24233 {\cftsecfont #1}\nobreak
24234 \cftsecfillnum{#2}}
24235 \fi}
24236 \renewcommand*\l@subsection}[2]{%
24237 \ifnum \c@tocdepth >\@ne
24238 \vskip \cftbeforesubsecskip
24239 {\if@RTL\rightskip\else\leftskip\fi \cftsubsecindent\relax
24240 \if@RTL\leftskip\else\rightskip\fi \@tocrmarg
24241 \parfillskip -\if@RTL\leftskip\else\rightskip\fi
24242 \parindent \cftsubsecindent\relax\@afterindenttrue
24243 \interlinepenalty\@M
24244 \leavevmode
24245 \@tempdima \cftsubsecnumwidth\relax
24246 \let\@cftbsnum \cftsubsecpresnum
24247 \let\@cftasnum \cftsubsecaftersnum
24248 \let\@cftasnumb \cftsubsecaftersnumb
24249 \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\right
24250 {\cftsubsecfont #1}\nobreak
24251 \cftsubsecfillnum{#2}}
24252 \fi}
24253 \renewcommand*\l@subsubsection}[2]{%
24254 \ifnum \c@tocdepth >\tw@
24255 \vskip \cftbeforesubsubsecskip
24256 {\if@RTL\rightskip\else\leftskip\fi \cftsubsubsecindent\relax
24257 \if@RTL\leftskip\else\rightskip\fi \@tocrmarg
24258 \parfillskip -\if@RTL\leftskip\else\rightskip\fi
24259 \parindent \cftsubsubsecindent\relax\@afterindenttrue
24260 \interlinepenalty\@M

```



```

24261 \leavevmode
24262 \@tempdima \cftsubsubsecnumwidth\relax
24263 \let\@cftbsnum \cftsubsubsecpresnum
24264 \let\@cftasnum \cftsubsubsecaftersnum
24265 \let\@cftasnumb \cftsubsubsecaftersnumb
24266 \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\right
24267 {\cftsubsubsecfont #1}\nobreak
24268 \cftsubsubsecfillnum{#2}}
24269 \fi}
24270 \renewcommand*{\l@paragraph}[2]{%
24271 \ifnum \c@tocdepth >3\relax
24272 \vskip \cftbeforeparaskip
24273 {\if@RTL\rightskip\else\leftskip\fi \cftparaindent\relax
24274 \if@RTL\leftskip\else\rightskip\fi \@tocrmarg
24275 \parfillskip -\if@RTL\leftskip\else\rightskip\fi
24276 \parindent \cftparaindent\relax\@afterindenttrue
24277 \interlinepenalty\@M
24278 \leavevmode
24279 \@tempdima \cftparanumwidth\relax
24280 \let\@cftbsnum \cftparapresnum
24281 \let\@cftasnum \cftparaaftersnum
24282 \let\@cftasnumb \cftparaaftersnumb
24283 \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\right
24284 {\cftparafont #1}\nobreak
24285 \cftparafillnum{#2}}
24286 \fi}
24287 \renewcommand*{\l@subparagraph}[2]{%
24288 \ifnum \c@tocdepth >4\relax
24289 \vskip \cftbeforesubparaskip
24290 {\if@RTL\rightskip\else\leftskip\fi \cftsubparaindent\relax
24291 \if@RTL\leftskip\else\rightskip\fi \@tocrmarg
24292 \parfillskip -\if@RTL\leftskip\else\rightskip\fi
24293 \parindent \cftsubparaindent\relax\@afterindenttrue
24294 \interlinepenalty\@M
24295 \leavevmode
24296 \@tempdima \cftsubparanumwidth\relax
24297 \let\@cftbsnum \cftsubparapresnum
24298 \let\@cftasnum \cftsubparaaftersnum
24299 \let\@cftasnumb \cftsubparaaftersnumb
24300 \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\right
24301 {\cftsubparafont #1}\nobreak
24302 \cftsubparafillnum{#2}}
24303 \fi}
24304 \renewcommand*{\l@figure}[2]{%
24305 \ifnum \c@lofdepth >\z@
24306 \vskip \cftbeforefigskip
24307 {\if@RTL\rightskip\else\leftskip\fi \cftfigindent\relax
24308 \if@RTL\leftskip\else\rightskip\fi \@tocrmarg
24309 \parfillskip -\if@RTL\leftskip\else\rightskip\fi
24310 \parindent \cftfigindent\relax\@afterindenttrue
24311 \interlinepenalty\@M
24312 \leavevmode
24313 \@tempdima \cftfignumwidth\relax
24314 \let\@cftbsnum \cftfigpresnum

```





```

24315 \let\@cftasnum \cftfigaftersnum
24316 \let\@cftasnumb \cftfigaftersnumb
24317 \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\right
24318 {\cftfigfont #1}\nobreak
24319 \cftfigfillnum{#2}}
24320 \fi
24321 }
24322 \renewcommand*\l@table}[2]{%
24323 \ifnum\c@lotdepth >\z@
24324 \vskip \cftbeforetabskip
24325 {\if@RTL\rightskip\else\leftskip\fi \cfttabindent\relax
24326 \if@RTL\leftskip\else\rightskip\fi \@tocrmarg
24327 \parfillskip -\if@RTL\leftskip\else\rightskip\fi
24328 \parindent \cfttabindent\relax\@afterindenttrue
24329 \interlinepenalty\@M
24330 \leavevmode
24331 \@tempdima \cfttabnumwidth\relax
24332 \let\@cftbsnum \cfttabpresnum
24333 \let\@cftasnum \cfttabaftersnum
24334 \let\@cftasnumb \cfttabaftersnumb
24335 \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\right
24336 {\cfttabfont #1}\nobreak
24337 \cfttabfillnum{#2}}
24338 \fi
24339 }
24340 \renewcommand{\@cftl@subfig}{
24341 \renewcommand*\l@subfigure}[2]{%
24342 \ifnum \c@lofdepth > \toclevel@subfigure
24343 \vskip \cftbeforesubfigskip
24344 {\if@RTL\rightskip\else\leftskip\fi \cftsubfigindent\relax
24345 \if@RTL\leftskip\else\rightskip\fi \@tocrmarg
24346 \parfillskip -\if@RTL\leftskip\else\rightskip\fi
24347 \parindent \cftsubfigindent\relax\@afterindenttrue
24348 \interlinepenalty\@M
24349 \leavevmode
24350 \@tempdima \cftsubfignumwidth\relax
24351 \let\@cftbsnum \cftsubfigpresnum
24352 \let\@cftasnum \cftsubfigaftersnum
24353 \let\@cftasnumb \cftsubfigaftersnumb
24354 \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\right
24355 {\cftsubfigfont ##1}\nobreak
24356 \cftsubfigfillnum{##2}}
24357 \fi
24358 }
24359 }
24360 \renewcommand{\@cftl@subtab}{
24361 \renewcommand*\l@subtable}[2]{%
24362 \ifnum \c@lotdepth > \toclevel@subtable
24363 \vskip \cftbeforesubtabskip
24364 {\if@RTL\rightskip\else\leftskip\fi \cftsubtabindent\relax
24365 \if@RTL\leftskip\else\rightskip\fi \@tocrmarg
24366 \parfillskip -\if@RTL\leftskip\else\rightskip\fi
24367 \parindent \cftsubtabindent\relax\@afterindenttrue
24368 \interlinepenalty\@M

```



```

24369 \leavevmode
24370 \@tempdima \cftsubtabnumwidth\relax
24371 \let\@cftbsnum \cftsubtabpresnum
24372 \let\@cftasnum \cftsubtabaftersnum
24373 \let\@cftasnumb \cftsubtabaftersnumb
24374 \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\right
24375 {\cftsubtabfont ##1}\nobreak
24376 \cftsubtabfillnum{##2}}
24377 \fi
24378 }
24379 }
24380 \renewcommand{\newlistentry}[4][\@empty]{%
24381 \@ifundefined{c@#2}{% check & set the counter
24382 \ifx \@empty#1\relax
24383 \newcounter{#2}
24384 \else
24385 \@ifundefined{c@#1}{\PackageWarning{tocloft}%
24386 {#1 has no counter for use as a `within'}
24387 \newcounter{#2}}%
24388 {\newcounter{#2}[#1}%
24389 \expandafter\edef\csname the#2\endcsname{%
24390 \expandafter\noexpand\csname the#1\endcsname\@SepMark\noexpand\arabic{#2}}}
24391 \fi
24392 \setcounter{#2}{0}
24393 }
24394 {\PackageError{tocloft}{#2 has been previously defined}{\@eha}}
24395
24396 \@namedef{l@#2}##1##2{%
24397 \ifnum \@nameuse{c@#3depth} > #4\relax
24398 \vskip \@nameuse{cftbefore#2skip}
24399 {\if@RTL\rightskip\else\leftskip\fi \@nameuse{cft#2indent}\relax
24400 \if@RTL\leftskip\else\rightskip\fi \@tocrmarg
24401 \parfillskip -\if@RTL\leftskip\else\rightskip\fi
24402 \parindent \@nameuse{cft#2indent}\relax\@afterindenttrue
24403 \interlinepenalty\@M
24404 \leavevmode
24405 \@tempdima \@nameuse{cft#2numwidth}\relax
24406 \expandafter\let\expandafter\@cftbsnum\csname cft#2presnum\endcsname
24407 \expandafter\let\expandafter\@cftasnum\csname cft#2aftersnum\endcsname
24408 \expandafter\let\expandafter\@cftasnumb\csname cft#2aftersnumb\endcsname
24409 \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\right
24410 {\@nameuse{cft#2font}##1}\nobreak
24411 \@nameuse{cft#2fillnum}{##2}}
24412 \fi
24413 } % end of l@#2
24414
24415 \expandafter\newlength\csname cftbefore#2skip\endcsname
24416 \setlength{\@nameuse{cftbefore#2skip}}{\z@ \@plus .2\p@}
24417 \expandafter\newlength\csname cft#2indent\endcsname
24418 \expandafter\newlength\csname cft#2numwidth\endcsname
24419 \ifcase #4\relax % 0
24420 \setlength{\@nameuse{cft#2indent}}{0em}
24421 \setlength{\@nameuse{cft#2numwidth}}{1.5em}
24422 \or % 1

```



```

24423 \setlength{\@nameuse{cft#2indent}}{1.5em}
24424 \setlength{\@nameuse{cft#2numwidth}}{2.3em}
24425 \or % 2
24426 \setlength{\@nameuse{cft#2indent}}{3.8em}
24427 \setlength{\@nameuse{cft#2numwidth}}{3.2em}
24428 \or % 3
24429 \setlength{\@nameuse{cft#2indent}}{7.0em}
24430 \setlength{\@nameuse{cft#2numwidth}}{4.1em}
24431 \else % anything else
24432 \setlength{\@nameuse{cft#2indent}}{10.0em}
24433 \setlength{\@nameuse{cft#2numwidth}}{5.0em}
24434 \fi
24435 \@namedef{cft#2font}{\normalfont}
24436 \@namedef{cft#2presnum}{}
24437 \@namedef{cft#2aftersnum}{}
24438 \@namedef{cft#2aftersnumb}{}
24439 \@namedef{cft#2dotsep}{\cftdotsep}
24440 \@namedef{cft#2leader}{\normalfont\cftdotfill{\@nameuse{cft#2dotsep}}}
24441 \@namedef{cft#2pagefont}{\normalfont}
24442 \@namedef{cft#2afterpnum}{}
24443 \@namedef{toclevel@#2}{#4}
24444 \@namedef{cft#2fillnum}##1{%
24445 \@nameuse{cft#2leader}}\nobreak
24446 \hb@xt@{\@pnumwidth}{\hfil\@nameuse{cft#2pagefont}##1}\@nameuse{cft#2afterpnum}\par}
24447 } % end \newlistentry
24448 \renewcommand{\cftchapterprecistoc}[1]{\addtocontents{toc}{%
24449 \if@RTL\rightskip\else\leftskip\fi \cftchapindent\relax
24450 \advance\if@RTL\rightskip\else\leftskip\fi \cftchapnumwidth\relax
24451 \if@RTL\leftskip\else\rightskip\fi \@tocmarg\relax
24452 \textit{#1}\protect\par}}}

```

## 157 File tocbasic-xetex-bidi.def

```

24453 \ProvidesFile{tocbasic-xetex-bidi.def}[2022/06/15 v0.5 bidi adaptations for tocbasic package]
24454 \bidi@undef\scr@dte@def@1@undottedtocline
24455 \bidi@undef\scr@dte@undottedtocline@init
24456 \DeclareTOCEntryStyle{undottedtocline}[{%
24457 \DefineTOCEntryLengthOption[indent]{%
24458 \scr@tso@}{@indent}{entry indent}%
24459 \DefineTOCEntryLengthOption[numwidth]{%
24460 \scr@tso@}{@numwidth}{entry number width}%
24461 \@ifundefined{#1tocdepth}{%
24462 \Ifstr{#1}{part}{\@namedef{#1tocdepth}{-1}}{%
24463 \Ifstr{#1}{chapter}{\@namedef{#1tocdepth}{0}}{%
24464 \Ifstr{#1}{section}{\@namedef{#1tocdepth}{1}}{%
24465 \Ifstr{#1}{subsection}{\@namedef{#1tocdepth}{2}}{%
24466 \Ifstr{#1}{subsubsection}{\@namedef{#1tocdepth}{3}}{%
24467 \Ifstr{#1}{paragraph}{\@namedef{#1tocdepth}{4}}{%
24468 \Ifstr{#1}{subparagraph}{\@namedef{#1tocdepth}{5}}{%
24469 \Ifstr{#1}{figure}{\@namedef{#1tocdepth}{1}}{%
24470 \Ifstr{#1}{table}{\@namedef{#1tocdepth}{1}}{%
24471 \expandafter\let\csname #1tocdepth\expandafter\endcsname
24472 \csname #1numdepth\endcsname
24473 }%

```



```

24474         }%
24475     }%
24476     }%
24477     }%
24478     }%
24479     }%
24480     }%
24481     }%
24482 }-%
24483 \@ifundefined{scr@tso@#1@indent}{%
24484     \@ifundefined{scr@#1@tocindent}{%
24485         \Ifstr{#1}{figure}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
24486             \Ifstr{#1}{table}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
24487                 \Ifstr{#1}{part}{\@namedef{scr@tso@#1@indent}{0em}}{%
24488                     \Ifstr{#1}{chapter}{\@namedef{scr@tso@#1@indent}{0em}}{%
24489                         \scr@ifundefinedorrelax{1@chapter}{%
24490                             \Ifstr{#1}{section}{\@namedef{scr@tso@#1@indent}{Opt}}{%
24491                                 \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
24492                                     \Ifstr{#1}{subsubsection}{%
24493                                         \@namedef{scr@tso@#1@indent}{3.8em}%
24494                                     }-%
24495                                     \Ifstr{#1}{paragraph}{%
24496                                         \@namedef{scr@tso@#1@indent}{7em}%
24497                                     }-%
24498                                     \Ifstr{#1}{subparagraph}{%
24499                                         \@namedef{scr@tso@#1@indent}{10em}%
24500                                     }-%
24501                                     }%
24502                                 }%
24503                             }%
24504                         }%
24505                     }%
24506                 }-%
24507                 \Ifstr{#1}{section}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
24508                     \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@indent}{3.8em}}{%
24509                         \Ifstr{#1}{subsubsection}{%
24510                             \@namedef{scr@tso@#1@indent}{7.0em}%
24511                         }-%
24512                         \Ifstr{#1}{paragraph}{%
24513                             \@namedef{scr@tso@#1@indent}{10em}%
24514                         }-%
24515                         \Ifstr{#1}{subparagraph}{%
24516                             \@namedef{scr@tso@#1@indent}{12em}%
24517                         }-%
24518                         }%
24519                     }%
24520                 }%
24521             }%
24522         }%
24523     }%
24524     }%
24525     }%
24526     }%
24527     }%

```



```

24528   }{
24529     \@namedef{scr@tso@#1@indent}{\@nameuse{scr@#1@tocindent}}%
24530   }%
24531 }{}%
24532 \@ifundefined{scr@tso@#1@numwidth}{%
24533   \@ifundefined{scr@#1@tocnumwidth}{%
24534     \Ifstr{#1}{figure}{\@namedef{scr@tso@#1@numwidth}{2.3em}}{%
24535     \Ifstr{#1}{table}{\@namedef{scr@tso@#1@numwidth}{2.3em}}{%
24536     \Ifstr{#1}{chapter}{\@namedef{scr@tso@#1@numwidth}{1.5em}}{%
24537     \scr@ifundefinedorrelax{chapter}{%
24538       \Ifstr{#1}{section}{\@namedef{scr@tso@#1@numwidth}{1.5em}}{%
24539       \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@numwidth}{2.3em}}{%
24540       \Ifstr{#1}{subsubsection}{%
24541         \@namedef{scr@tso@#1@numwidth}{3.2em}%
24542       }{
24543         \Ifstr{#1}{paragraph}{%
24544           \@namedef{scr@tso@#1@numwidth}{4.1em}%
24545         }{
24546           \Ifstr{#1}{subparagraph}{%
24547             \@namedef{scr@tso@#1@numwidth}{5m}%
24548           }{
24549             }%
24550           }%
24551         }%
24552       }%
24553     }%
24554   }{
24555     \Ifstr{#1}{section}{\@namedef{scr@tso@#1@numwidth}{2.3em}}{%
24556     \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@numwidth}{3.2em}}{%
24557     \Ifstr{#1}{subsubsection}{%
24558       \@namedef{scr@tso@#1@numwidth}{3.1em}%
24559     }{
24560       \Ifstr{#1}{paragraph}{%
24561         \@namedef{scr@tso@#1@numwidth}{5em}%
24562       }{
24563         \Ifstr{#1}{subparagraph}{%
24564           \@namedef{scr@tso@#1@numwidth}{6em}%
24565         }{
24566           }%
24567         }%
24568       }%
24569     }%
24570   }%
24571 }%
24572 }%
24573 }%
24574 }%
24575 }{
24576   \@namedef{scr@tso@#1@numwidth}{\@nameuse{scr@#1@tocnumwidth}}%
24577 }%
24578 }{}%
24579 }}{}%
24580 \ifnum \c@tocdepth >\numexpr \@nameuse{#1tocdepth}-\@ne\relax
24581   \ifnum \@nameuse{#1tocdepth}<\@ne

```



```

24582     \scr@ifundefinedorrelax{chapter}{%
24583         \addpenalty\@secpenalty
24584         \addvspace{1.0em \@plus\p@}%
24585     }{%
24586         \addpenalty{-\@highpenalty}%
24587         \vskip 1.0em \@plus\p@
24588     }%
24589     \else
24590         \addpenalty\@secpenalty
24591         \addvspace{1.0em \@plus\p@}%
24592     \fi
24593     \setlength\@tempdima{\@nameuse{scr@tso@#1@numwidth}}%
24594     \begingroup
24595         \parindent \z@ \bidi@rightskip \@pnumwidth
24596         \parfillskip -\@pnumwidth
24597         \leavevmode
24598         \bfseries
24599         \advance\bidi@leftskip\@tempdima
24600         \IfTOCfeature{\@currentx}{noindent}{%
24601             \hskip -\bidi@leftskip
24602         }{%
24603             \advance\bidi@leftskip\@nameuse{scr@tso@#1@indent}%
24604             \hskip -\dimexpr \bidi@leftskip-\@nameuse{scr@tso@#1@indent}\relax
24605         }%
24606         ##1%
24607         \nobreak
24608         \hfil \nobreak\hb@xt@\@pnumwidth{\hss ##2}%
24609         \par
24610         \penalty\@highpenalty
24611     \endgroup
24612     \fi
24613 }
24614
24615 \bidi@undef\scr@dte@def@1@targetocline
24616 \bidi@undef\scr@dte@targetocline@init
24617 \DeclareTOCEntryStyle{targetocline}[%
24618     \DefineTOCEntryLengthOption{indent}%
24619     {scr@tso@}{\@indent}{entry indent}%
24620     \@ifundefined{#1tocdepth}{%
24621         \Ifstr{#1}{part}{\@namedef{#1tocdepth}{-1}}{%
24622             \Ifstr{#1}{chapter}{\@namedef{#1tocdepth}{0}}{%
24623                 \Ifstr{#1}{section}{\@namedef{#1tocdepth}{1}}{%
24624                     \Ifstr{#1}{subsection}{\@namedef{#1tocdepth}{2}}{%
24625                         \Ifstr{#1}{subsubsection}{\@namedef{#1tocdepth}{3}}{%
24626                             \Ifstr{#1}{paragraph}{\@namedef{#1tocdepth}{4}}{%
24627                                 \Ifstr{#1}{subparagraph}{\@namedef{#1tocdepth}{5}}{%
24628                                     \Ifstr{#1}{figure}{\@namedef{#1tocdepth}{1}}{%
24629                                         \Ifstr{#1}{table}{\@namedef{#1tocdepth}{1}}{%
24630                                             \expandafter\let\csname #1tocdepth\expandafter\endcsname
24631                                                 \csname #1numdepth\endcsname
24632                                         }%
24633                                     }%
24634                                 }%
24635                             }%

```



```

24636         }%
24637     }%
24638 }%
24639 }%
24640 }%
24641 }{}%
24642 \@ifundefined{scr@tso@#1@indent}{%
24643     \@ifundefined{scr@#1@tocindent}{%
24644         \Ifstr{#1}{figure}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
24645             \Ifstr{#1}{table}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
24646                 \Ifstr{#1}{part}{\@namedef{scr@tso@#1@indent}{0em}}{%
24647                     \Ifstr{#1}{chapter}{\@namedef{scr@tso@#1@indent}{0em}}{%
24648                         \scr@ifundefinedorrelax{1@chapter}{%
24649                             \Ifstr{#1}{section}{\@namedef{scr@tso@#1@indent}{Opt}}{%
24650                                 \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
24651                                     \Ifstr{#1}{subsubsection}{%
24652                                         \@namedef{scr@tso@#1@indent}{3.8em}}%
24653                                     }{%
24654                                         \Ifstr{#1}{paragraph}{%
24655                                             \@namedef{scr@tso@#1@indent}{7em}}%
24656                                         }{%
24657                                             \Ifstr{#1}{subparagraph}{%
24658                                                 \@namedef{scr@tso@#1@indent}{10em}}%
24659                                             }{%
24660                                                 }%
24661                                             }%
24662                                         }%
24663                                     }%
24664                                 }%
24665                             }{}%
24666                         \Ifstr{#1}{section}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
24667                             \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@indent}{3.8em}}{%
24668                                 \Ifstr{#1}{subsubsection}{%
24669                                     \@namedef{scr@tso@#1@indent}{7.0em}}%
24670                                 }{%
24671                                     \Ifstr{#1}{paragraph}{%
24672                                         \@namedef{scr@tso@#1@indent}{10em}}%
24673                                     }{%
24674                                         \Ifstr{#1}{subparagraph}{%
24675                                             \@namedef{scr@tso@#1@indent}{12em}}%
24676                                         }{%
24677                                             }%
24678                                         }%
24679                                     }%
24680                                 }%
24681                             }%
24682                         }%
24683                     }%
24684                 }%
24685             }%
24686         }%
24687     }{}%
24688     \@namedef{scr@tso@#1@indent}{\@nameuse{scr@#1@tocindent}}%
24689 }%

```



```

24690 }-{}%
24691 }-{}%
24692 \ifnum \c@tocdepth >\numexpr \@nameuse{#1tocdepth}-\@ne\relax
24693 \ifnum \@nameuse{#1tocdepth}<\@ne
24694 \scr@ifundefinedorrelax{chapter}{%
24695 \addpenalty\@secpenalty
24696 \addvspace{2.25em \@plus\p@}%
24697 }-{}%
24698 \addpenalty{-\@highpenalty}%
24699 \addvspace{2.25em \@plus\p@}%
24700 }-{}%
24701 \else
24702 \addpenalty\@secpenalty
24703 \addvspace{2.25em \@plus\p@}%
24704 \fi
24705 \setlength\@tempdima{3em}%
24706 \begingroup
24707 \parindent \z@ \bidi@rightskip \@pnumwidth
24708 \parfillskip -\@pnumwidth
24709 \leavevmode
24710 \large
24711 \bfseries
24712 \iftocfeature{\@currentt}{noindent}{%
24713 }-{}%
24714 \advance\bidi@leftskip\@nameuse{scr@tso@#1@indent}%
24715 }-{}%
24716 ##1%
24717 \hfil \nobreak\hb@ext@\@pnumwidth{\hss ##2}%
24718 \par
24719 \nobreak
24720 \ifnum 0=
24721 \scr@ifundefinedorrelax{chapter}{\if@compatibility 1\else 0\fi}{1}\relax
24722 \global\@nobreaktrue
24723 \everypar{\global\@nobreakfalse\everypar{}}%
24724 \fi
24725 \endgroup
24726 \fi
24727 }
24728
24729 \renewcommand*{\scr@dte@tocline}[3]{%
24730 \ifnum \@nameuse{#1tocdepth}>\c@tocdepth
24731 \else
24732 \tocbasic@DependOnPenaltyAndTOCLLevel{#1}%
24733 \addvspace{\@nameuse{scr@tso@#1@beforeskip}}\relax
24734 \@nameuse{Ifscr@tso@#1@dynindent}{%
24735 \expandafter\ifx\c@name scr@tso@#1@indentfollows\endcsname\@empty
24736 \PackageWarning{tocbasic}{`dynindent' for `#1' not available}%
24737 \else
24738 \edef\reserved@a{\@nameuse{scr@tso@#1@indentfollows}}%
24739 \@for \reserved@a:=\reserved@a\do {%
24740 \scr@trim@spaces\reserved@a
24741 \ifx\reserved@a\@empty\else
24742 \scr@ifundefinedorrelax{\reserved@a tocdepth}{%
24743 }-{}%

```





```

24744         \ifnum \@nameuse{\reserved@a tocdepth}<\@nameuse{#1tocdepth}%
24745         \@tempdima\@nameuse{scr@tso@\reserved@a @indent}\relax
24746         \@nameuse{Ifscr@tso@\reserved@a @dynnumwidth}{%
24747         \scr@ifundefinedorrelax
24748         {scr@dte@\reserved@a @lastmaxnumwidth}{%
24749         \advance\@tempdima
24750         \@nameuse{scr@tso@\reserved@a @numwidth}\relax
24751         }{%
24752         \advance\@tempdima
24753         \@nameuse{scr@dte@\reserved@a @lastmaxnumwidth}\relax
24754         }%
24755         }{%
24756         \advance\@tempdima
24757         \@nameuse{scr@tso@\reserved@a @numwidth}\relax
24758         }%
24759         \ifdim \@tempdima>\@nameuse{scr@tso@#1@indent}\relax
24760         \expandafter\edef\csname scr@tso@#1@indent\endcsname
24761         {\the\@tempdima}%
24762         \fi
24763         \fi
24764         }%
24765         \fi
24766         }%
24767         \fi
24768     }{%
24769     {%
24770     \Iftocfeature{\@currentx}{noindent}{%
24771     \bidi@leftskip \z@
24772     }{%
24773     \bidi@leftskip \@nameuse{scr@tso@#1@indent}\relax
24774     }%
24775     \bidi@rightskip \@nameuse{scr@tso@#1@rightindent}\relax
24776     \parfillskip -\bidi@rightskip
24777     \@nameuse{Ifscr@tso@#1@raggedpage}{%
24778     \addtolength{\parfillskip}{\z@ \@plus 1fil}%
24779     }{%
24780     \Iftocfeature{\@currentx}{noindent}{%
24781     \parindent \z@
24782     }{%
24783     \parindent \@nameuse{scr@tso@#1@indent}\relax
24784     }%
24785     \@afterindenttrue
24786     \interlinepenalty\M
24787     \expandafter\ifx\csname ragged#1entry\endcsname\raggedright
24788     \addtolength\bidi@rightskip\@flushglue
24789     \else
24790     \def\reserved@a{\raggedright}%
24791     \expandafter\ifx\csname ragged#1entry\endcsname\reserved@a
24792     \addtolength\bidi@rightskip\@flushglue
24793     \else
24794     \renewcommand\reserved@a{\raggedright}%
24795     \expandafter\ifx\csname ragged#1entry\endcsname\reserved@a
24796     \addtolength\bidi@rightskip\@flushglue
24797     \fi

```



```

24798     \fi
24799 \fi
24800 \leavevmode
24801 \@tempdima \@nameuse{scr@tso@#1@numwidth}\relax
24802 \@nameuse{Ifscr@tso@#1@dynnumwidth}{-%
24803   \scr@ifundefinedorrelax{scr@dte@#1@lastmaxnumwidth}{}{-%
24804     \ifdim \@nameuse{scr@dte@#1@lastmaxnumwidth}>\@tempdima
24805       \@tempdima\@nameuse{scr@dte@#1@lastmaxnumwidth}\relax
24806     \fi
24807   }-%
24808 }{}}%
24809 \advance\@bidi@leftskip \@tempdima
24810 \null\nobreak\hskip -\@bidi@leftskip
24811 {%
24812   \usetocbasicnumberline
24813   \let\scr@dte@numberline@box\numberline@box
24814   \def\@numberline@box##1{%
24815     \sbox\scr@dte@tocline@numbox{\@nameuse{scr@tso@#1@numberformat}{##1}}%
24816     \global\scr@dte@tocline@numberwidth
24817     \dimexpr\wd\scr@dte@tocline@numbox+\@nameuse{scr@tso@#1@numsep}\relax
24818     \relax
24819     \ifdim \scr@dte@tocline@numberwidth
24820       >\@nameuse{scr@dte@#1@maxnumwidth}\relax
24821     \global\@nameuse{scr@dte@#1@maxnumwidth}\scr@dte@tocline@numberwidth
24822   \fi
24823   \@nameuse{Ifscr@tso@#1@dynnumwidth}{}{-%
24824     \ifdim \scr@dte@tocline@numberwidth
24825       >\dimexpr \@nameuse{scr@tso@#1@numwidth}%
24826         +\@nameuse{scr@tso@#1@numsep}\relax\relax
24827     \PackageWarning{tocbasic}{-%
24828       number width of #1 toc entries should be
24829       increased!\MessageBreak
24830       Currently used number width =
24831       \the\wd\scr@dte@tocline@numbox,\MessageBreak
24832       Wanted number separation
24833       \space\space\space =
24834       \the\dimexpr\@nameuse{scr@tso@#1@numsep}\relax,\MessageBreak
24835       Reserved number width \space\space\space\space\space =
24836       \the\dimexpr\@nameuse{scr@tso@#1@numwidth}\relax%
24837     }%
24838   \fi
24839 }%
24840 \scr@dte@numberline@box{\@nameuse{scr@tso@#1@numberformat}{##1}}%
24841 \@nameuse{Ifscr@tso@#1@breakafternumber}{-%
24842   {\parfillskip\@flushglue\par}\nobreak\hskip-\@bidi@leftskip
24843 }{}}%
24844 }%
24845 {\@nameuse{scr@tso@#1@entryformat}{-%
24846   #2%
24847   \nobreak
24848   {%
24849     \normalfont\normalsize\@nameuse{scr@tso@#1@linefill}}%
24850   \nobreak
24851   \expandafter\let\expandafter\scr@dte@pagenumberwidth

```



```

24852         \csname scr@tso@#1@pagenumberwidth\endcsname
24853         \@nameuse{scr@tso@#1@pagenumberbox}{%
24854             \@nameuse{scr@tso@#1@pagenumberformat}{#3}%
24855         }%
24856     }%
24857 }}\@par
24858 }%
24859 }%
24860 \tocbasic@SetPenaltyByTOCLevel{#1}%
24861 \fi
24862 }
24863
24864
24865 \bidi@undef\scr@dte@def@1@tocline
24866 \bidi@undef\scr@dte@tocline@init
24867 \DeclareTOCEntryStyle{tocline}[{%
24868     \DefineTOCEntryLengthOption{beforeskip}%
24869     {scr@tso@}{@beforeskip}{vertical skip before the entry}%
24870     \DefineTOCEntryIfOption{breakafternumber}%
24871     {scr@tso@}{@breakafternumber}{line break after number flag}%
24872     \DefineTOCEntryIfOption{dynnumwidth}%
24873     {scr@tso@}{@dynnumwidth}{dynamic number width flag}%
24874     \DefineTOCEntryListOption{indentfollows}%
24875     {scr@tso@}{@indentfollows}{list of levels that define the indent}%
24876     \DefineTOCEntryIfOption{dynindent}%
24877     {scr@tso@}{@dynindent}{dynamic indent width flag}%
24878     \DefineTOCEntryCommandOption{entryformat}%
24879     {scr@tso@}{@entryformat}[1]{entry format}%
24880     \DefineTOCEntryCommandOption{entrynumberformat}%
24881     {scr@tso@}{@numberformat}[1]{entry number format}%
24882     \DefineTOCEntryCommandOption{linefill}[{\TOCLineLeaderFill}]%
24883     {scr@tso@}{@linefill}{filling between text and page number}%
24884     \DefineTOCEntryLengthOption{numsep}%
24885     {scr@tso@}{@numsep}{entry number separation}%
24886     \DefineTOCEntryCommandOption{onstarthigherlevel}%
24887     {scr@tso@}{@LastTOCLevelWasLower}{start higher level entry hook}%
24888     \DefineTOCEntryCommandOption{onstartlowerlevel}%
24889     {scr@tso@}{@LastTOCLevelWasHigher}{start lower level entry hook}%
24890     \DefineTOCEntryCommandOption{onstartsamelevel}%
24891     {scr@tso@}{@LastTOCLevelWasSame}{start same level entry hook}%
24892     \DefineTOCEntryCommandOption{pagenumberbox}%
24893     {scr@tso@}{@pagenumberbox}[1]{page number box}%
24894     \DefineTOCEntryCommandOption{pagenumberformat}%
24895     {scr@tso@}{@pagenumberformat}[1]{page number format}%
24896     \DefineTOCEntryLengthOption{pagenumberwidth}%
24897     {scr@tso@}{@pagenumberwidth}{width of page number box}%
24898     \DefineTOCEntryLengthOption{rightindent}%
24899     {scr@tso@}{@rightindent}{entry's text right indent}%
24900     \DefineTOCEntryOption{raggedentrytext}[true]{%
24901         \FamilySetBool{KOMAAarg}{raggedentrytext}{@tempswa}{##1}%
24902         \ifx\FamilyKeyState\FamilyKeyStateProcessed
24903             \if@tempswa
24904                 \expandafter\let\csname ragged\scr@dte@current entry\endcsname
24905                 \raggedright

```



```

24906     \else
24907     \expandafter\let\csname ragged\scr@dte@current entry\endcsname
24908     \relax
24909     \fi
24910   \fi
24911 }%
24912 \DefineTOCEntryIfOption{raggedpagenumber}%
24913   {scr@tso@}{@raggedpage}{page number ragged flag}%
24914 \DefineTOCEntryLengthOption{indent}%
24915   {scr@tso@}{@indent}{entry indent}%
24916 \DefineTOCEntryLengthOption{numwidth}%
24917   {scr@tso@}{@numwidth}{entry number width}%
24918 \scr@ifundefinedorrelax{#1tocdepth}{%
24919   \Ifstrstart{#1}{sub}{%
24920     \scr@ifundefinedorrelax{\scr@dte@nosub{#1}tocdepth}{%
24921       \expandafter\edef\csname #1tocdepth\endcsname{%
24922         \the\numexpr \noexpand\@nameuse{\scr@dte@nosub{#1}tocdepth}+\@ne\relax
24923       }%
24924     }%
24925   }{}%
24926 }{}%
24927 \@ifundefined{#1tocdepth}{%
24928   \Ifstr{#1}{part}{\@namedef{#1tocdepth}{-1}}{%
24929     \Ifstr{#1}{chapter}{\@namedef{#1tocdepth}{0}}{%
24930       \Ifstr{#1}{section}{\@namedef{#1tocdepth}{1}}{%
24931         \Ifstr{#1}{subsection}{\@namedef{#1tocdepth}{2}}{%
24932           \Ifstr{#1}{subsubsection}{\@namedef{#1tocdepth}{3}}{%
24933             \Ifstr{#1}{paragraph}{\@namedef{#1tocdepth}{4}}{%
24934               \Ifstr{#1}{subparagraph}{\@namedef{#1tocdepth}{5}}{%
24935                 \Ifstr{#1}{figure}{\@namedef{#1tocdepth}{1}}{%
24936                   \Ifstr{#1}{table}{\@namedef{#1tocdepth}{1}}{%
24937                     \expandafter\let\csname #1tocdepth\expandafter\endcsname
24938                     \csname #1numdepth\endcsname
24939                   }%
24940                 }%
24941               }%
24942             }%
24943           }%
24944         }%
24945       }%
24946     }%
24947   }%
24948 }{}%
24949 \scr@ifundefinedorrelax{scr@tso@#1@indent}{%
24950   \@ifundefined{scr@#1@tocindent}{%
24951     \Ifstrstart{#1}{sub}{%
24952       \scr@ifundefinedorrelax{scr@tso@\scr@dte@nosub{#1}@indent}{%
24953         \scr@ifundefinedorrelax{scr@tso@\scr@dte@nosub{#1}@numwidth}{%
24954           \expandafter\edef\csname scr@tso@#1@indent\endcsname{%
24955             \glueexpr \noexpand\@nameuse{scr@tso@\scr@dte@nosub{#1}@numwidth}}%
24956           \relax
24957         }%
24958       }%
24959     }{}%

```



```

24960     \scr@ifundefinedorrelax{scr@tso@\scr@dte@nosub{#1}@numwidth}{%
24961         \expandafter\edef\csname scr@tso@#1@indent\endcsname{%
24962             \glueexpr \noexpand\@nameuse{scr@tso@\scr@dte@nosub{#1}@indent}}%
24963         \relax
24964     }%
24965 }{%
24966     \expandafter\edef\csname scr@tso@#1@indent\endcsname{%
24967         \glueexpr \noexpand\@nameuse{scr@tso@\scr@dte@nosub{#1}@indent}}%
24968         +\noexpand\@nameuse{scr@tso@\scr@dte@nosub{#1}@numwidth}}%
24969     \relax
24970 }%
24971 }%
24972 }%
24973 }{}%
24974 }{%
24975     \@namedef{scr@tso@#1@indent}{\@nameuse{scr@#1@tocindent}}%
24976 }%
24977 }{}%
24978 \scr@ifundefinedorrelax{scr@tso@#1@pagenumberwidth}{%
24979     \Ifstrstart{#1}{sub}{%
24980         \scr@ifundefinedorrelax{scr@tso@\scr@dte@nosub{#1}@pagenumberwidth}{%
24981             \@namedef{scr@tso@#1@pagenumberwidth}{\@pnumwidth}}%
24982         }{%
24983             \expandafter\let
24984             \csname scr@tso@#1@pagenumberwidth\expandafter\endcsname
24985             \csname scr@tso@\scr@dte@nosub{#1}@pagenumberwidth\endcsname
24986         }%
24987     }{%
24988         \@namedef{scr@tso@#1@pagenumberwidth}{\@pnumwidth}}%
24989     }%
24990 }{}%
24991 \scr@ifundefinedorrelax{scr@tso@#1@rightindent}{%
24992     \Ifstrstart{#1}{sub}{%
24993         \scr@ifundefinedorrelax{scr@tso@\scr@dte@nosub{#1}@rightindent}{%
24994             \@namedef{scr@tso@#1@rightindent}{\@tocrmarg}}%
24995         }{%
24996             \expandafter\let
24997             \csname scr@tso@#1@rightindent\expandafter\endcsname
24998             \csname scr@tso@\scr@dte@nosub{#1}@rightindent\endcsname
24999         }%
25000     }{%
25001         \@namedef{scr@tso@#1@rightindent}{\@tocrmarg}}%
25002     }%
25003 }{}%
25004 \@ifundefined{scr@tso@#1@indent}{%
25005     \Ifstr{#1}{figure}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
25006     \Ifstr{#1}{table}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
25007     \Ifstr{#1}{part}{\@namedef{scr@tso@#1@indent}{0em}}{%
25008     \Ifstr{#1}{chapter}{\@namedef{scr@tso@#1@indent}{0em}}{%
25009     \scr@ifundefinedorrelax{l@chapter}{%
25010         \Ifstr{#1}{section}{\@namedef{scr@tso@#1@indent}{Opt}}{%
25011         \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
25012         \Ifstr{#1}{subsubsection}{%
25013             \@namedef{scr@tso@#1@indent}{3.8em}}%

```



```

25014 }{%
25015 \Ifstr{#1}{paragraph}{%
25016 \@namedef{scr@tso@#1@indent}{7em}%
25017 }{%
25018 \Ifstr{#1}{subparagraph}{%
25019 \@namedef{scr@tso@#1@indent}{10em}%
25020 }{%
25021 }%
25022 }%
25023 }%
25024 }%
25025 }%
25026 }{%
25027 \Ifstr{#1}{section}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
25028 \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@indent}{3.8em}}{%
25029 \Ifstr{#1}{subsubsection}{%
25030 \@namedef{scr@tso@#1@indent}{7.0em}}%
25031 }{%
25032 \Ifstr{#1}{paragraph}{%
25033 \@namedef{scr@tso@#1@indent}{10em}%
25034 }{%
25035 \Ifstr{#1}{subparagraph}{%
25036 \@namedef{scr@tso@#1@indent}{12em}%
25037 }{%
25038 }%
25039 }%
25040 }%
25041 }%
25042 }%
25043 }%
25044 }%
25045 }%
25046 }%
25047 }%
25048 }{}%
25049 \scr@ifundefinedorrelax{scr@tso@#1@numwidth}{%
25050 \scr@ifundefinedorrelax{scr@#1@tocnumwidth}{%
25051 \Ifstrstart{#1}{sub}{%
25052 \scr@ifundefinedorrelax{scr@tso@\scr@dte@nosub{#1}@numwidth}}{}%
25053 \expandafter\edef\csname scr@tso@#1@numwidth\endcsname{%
25054 \glueexpr \noexpand\@nameuse{scr@tso@\scr@dte@nosub{#1}@numwidth}%
25055 +.9em%
25056 \relax
25057 }%
25058 }%
25059 }{}%
25060 }{%
25061 \@namedef{scr@tso@#1@numwidth}{\@nameuse{scr@#1@tocnumwidth}}%
25062 }%
25063 }{}%
25064 \@ifundefined{scr@tso@#1@numwidth}{%
25065 \Ifstr{#1}{figure}{\@namedef{scr@tso@#1@numwidth}{2.3em}}{%
25066 \Ifstr{#1}{table}{\@namedef{scr@tso@#1@numwidth}{2.3em}}{%
25067 \Ifstr{#1}{chapter}{\@namedef{scr@tso@#1@numwidth}{1.5em}}{%

```



```

25068 \scr@ifundefinedorrelax{chapter}{%
25069 \Ifstr{#1}{section}{\@namedef{scr@tso@#1@numwidth}{1.5em}}{%
25070 \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@numwidth}{2.3em}}{%
25071 \Ifstr{#1}{subsubsection}{%
25072 \@namedef{scr@tso@#1@numwidth}{3.2em}%
25073 }{%
25074 \Ifstr{#1}{paragraph}{%
25075 \@namedef{scr@tso@#1@numwidth}{4.1em}%
25076 }{%
25077 \Ifstr{#1}{subparagraph}{%
25078 \@namedef{scr@tso@#1@numwidth}{5m}%
25079 }{%
25080 }%
25081 }%
25082 }%
25083 }%
25084 }%
25085 }{%
25086 \Ifstr{#1}{section}{\@namedef{scr@tso@#1@numwidth}{2.3em}}{%
25087 \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@numwidth}{3.2em}}{%
25088 \Ifstr{#1}{subsubsection}{%
25089 \@namedef{scr@tso@#1@numwidth}{3.1em}%
25090 }{%
25091 \Ifstr{#1}{paragraph}{%
25092 \@namedef{scr@tso@#1@numwidth}{5em}%
25093 }{%
25094 \Ifstr{#1}{subparagraph}{%
25095 \@namedef{scr@tso@#1@numwidth}{6em}%
25096 }{%
25097 }%
25098 }%
25099 }%
25100 }%
25101 }%
25102 }%
25103 }%
25104 }%
25105 }%
25106 }{}%
25107 \expandafter\renewcommand%
25108 \csname scr@tso@#1@LastTOCLevelWasLower\endcsname{\LastTOCLevelWasLower}%
25109 \expandafter\renewcommand%
25110 \csname scr@tso@#1@LastTOCLevelWasSame\endcsname{\LastTOCLevelWasSame}%
25111 \expandafter\renewcommand%
25112 \csname scr@tso@#1@LastTOCLevelWasHigher\endcsname{\LastTOCLevelWasHigher}%
25113 \@ifundefined{scr@tso@#1@beforeskip}{%
25114 \Ifstr{#1}{part}{%
25115 \@namedef{scr@tso@#1@beforeskip}{\glueexpr 2.25em \@plus\p\relax}%
25116 }{%
25117 \Ifstr{#1}{chapter}{%
25118 \@namedef{scr@tso@#1@beforeskip}{\glueexpr 1.0em \@plus\p\relax}%
25119 }{%
25120 \Ifstr{#1}{section}{%
25121 \scr@ifundefinedorrelax{l@chapter}{%

```



```

25122         \@namedef{scr@tso@#1@beforeskip}{\glueexpr 1.0em \@plus\p@\relax}%
25123         }{}%
25124     }{}%
25125 }%
25126 }%
25127 \expandafter\renewcommand\expandafter*%
25128 \csname scr@tso@#1@beforeskip\endcsname{\glueexpr \z@ plus .2\p@\relax}%
25129 }{}%
25130 \@ifundefined{scr@dte@#1@maxnumwidth}{%
25131     \expandafter\newlength\csname scr@dte@#1@maxnumwidth\endcsname
25132     \setlength{\@nameuse{scr@dte@#1@maxnumwidth}}{\z@}%
25133 }{}%
25134 \renewcommand*{\scr@dte@donumwidth}{%
25135     \g@addto@macro{\scr@dte@donumwidth}{\do{#1}}%
25136 \expandafter\renewcommand\expandafter*%
25137 \csname scr@tso@#1@numsep\endcsname{.4em}%
25138 \expandafter\renewcommand%
25139 \csname scr@tso@#1@numberformat\endcsname[1]{##1}%
25140 \Ifstr{#1}{part}{%
25141     \expandafter\providecommand%
25142     \csname scr@tso@#1@entryformat\endcsname[1]{\large\bfseries ##1}%
25143 }{}%
25144 \Ifstr{#1}{chapter}{%
25145     \expandafter\providecommand%
25146     \csname scr@tso@#1@entryformat\endcsname[1]{\bfseries ##1}%
25147 }{}%
25148 \scr@ifundefinedorrelax{1@chapter}{%
25149     \Ifstr{#1}{section}{%
25150         \expandafter\providecommand%
25151         \csname scr@tso@#1@entryformat\endcsname[1]{\bfseries ##1}%
25152     }{}%
25153 }{}%
25154 \expandafter\providecommand%
25155 \csname scr@tso@#1@entryformat\endcsname[1]{##1}%
25156 }%
25157 }%
25158 \expandafter\renewcommand
25159 \csname Ifscr@tso@#1@breakafternumber\endcsname[2]{##2}%
25160 \@ifundefined{scr@tso@#1@linefill}{%
25161     \Ifstr{#1}{part}{%
25162         \@namedef{scr@tso@#1@linefill}{\hfill}%
25163     }{}%
25164     \Ifstr{#1}{chapter}{%
25165         \@namedef{scr@tso@#1@linefill}{\hfill}%
25166     }{}%
25167     \scr@ifundefinedorrelax{1@chapter}{%
25168         \Ifstr{#1}{section}{%
25169             \@namedef{scr@tso@#1@linefill}{\hfill}%
25170         }{}%
25171     }{}%
25172     \expandafter\renewcommand%
25173     \csname scr@tso@#1@linefill\endcsname{\TOCLineLeaderFill\relax}%
25174 }%
25175 }%

```





```

25176 }{}%
25177 \expandafter\renewcommand\csname Ifscr@tso@#1@raggedpage\endcsname[2]{##2}%
25178 \Ifstr{#1}{part}{%
25179   \expandafter\providecommand%
25180   \csname scr@tso@#1@pagenumberformat\endcsname[1]{\large\bfseries ##1}%
25181 }{}%
25182 \Ifstr{#1}{chapter}{%
25183   \expandafter\providecommand%
25184   \csname scr@tso@#1@pagenumberformat\endcsname[1]{\bfseries ##1}%
25185 }{}%
25186 \scr@ifundefinedorrelax{1@chapter}{%
25187   \Ifstr{#1}{section}{%
25188     \expandafter\providecommand%
25189     \csname scr@tso@#1@pagenumberformat\endcsname[1]{\bfseries ##1}%
25190   }{}%
25191 }{}%
25192 \expandafter\providecommand%
25193 \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
25194   {\normalfont\normalcolor ##1}}%
25195 }%
25196 }%
25197 \expandafter\renewcommand%
25198 \csname scr@tso@#1@pagenumberbox\endcsname[1]{%
25199   \hbxt@{\nameuse{scr@dte@pagenumberwidth}}{\hfil ##1}}%
25200 \expandafter\renewcommand\csname Ifscr@tso@#1@dynnumwidth\endcsname[2]{##2}%
25201 \expandafter\renewcommand\csname Ifscr@tso@#1@dynindent\endcsname[2]{##2}%
25202 \scr@ifundefinedorrelax{scr@tso@#1@indentfollows}{%
25203   \Ifstrstart{#1}{sub}{%
25204     \expandafter\edef\csname scr@tso@#1@indentfollows\endcsname{%
25205       \scr@dte@nosub{#1}}%
25206   }%
25207 }{}%
25208 \expandafter\let\csname scr@tso@#1@indentfollows\endcsname\@empty
25209 }%
25210 }{}%
25211 }]}{}%
25212 \scr@dte@tocline{#1}{##1}{##2}%
25213 }
25214
25215 \if@bidi@csdef{scr@tso@figure@pagenumberformat}{%
25216   \renewcommand*{\scr@tso@figure@pagenumberformat}[1]{%
25217     {\normalfont\normalcolor #1}}%
25218   }%
25219 }{}
25220
25221 \if@bidi@csdef{scr@tso@table@pagenumberformat}{%
25222   \renewcommand*{\scr@tso@table@pagenumberformat}[1]{%
25223     {\normalfont\normalcolor #1}}%
25224   }%
25225 }{}
25226

```

## 158 File tocstyle-xetex-bidi.def



```

25227 \ProvidesFile{tocstyle-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for tocstyle package]
25228 \renewcommand*{\tocstyle@dottedtocline}[5]{%
25229   \let\numberline\tocstyle@numberline
25230   \ifnum #1>\c@tocdepth \else
25231     \if@tocstyle@penalties
25232       \begingroup
25233         \@tempcnta 20010
25234         \advance \@tempcnta by -#1
25235         \ifnum \@tempcnta>\lastpenalty
25236           \aftergroup\penalty\aftergroup\@lowpenalty
25237         \fi
25238       \endgroup
25239     \fi
25240     \edef\tocstyledepth{#1}%
25241     \tocstyle@activate@features
25242     \ifx\tocstyle@feature@entryvskip\relax
25243       \vskip \z@ \@plus.2\p@
25244     \else
25245       \addvspace{\tocstyle@feature@entryvskip}%
25246     \fi
25247     {%
25248       \parskip \z@ \parindent \z@ \if@RTL\righskip\else\leftskip\fi \z@ \if@RTL\leftskip\else
25249       \tocstyle@feature@raggedhook
25250       \@tempdima #3\relax
25251       \@tempdimb #2\relax
25252       \typeout{m (\tocstyleTOC, \tocstyledepth): \the\@tempdima}%
25253       \ifnum #1>\z@\relax
25254         \@tempcnta #1\relax \advance\@tempcnta \m@ne
25255         \ifcsname tocstyle@skipwidth@\tocstyleTOC @\the\@tempcnta\endcsname
25256           \ifcsname tocstyle@numwidth@\tocstyleTOC @\the\@tempcnta\endcsname
25257             \@tempdimb
25258             \csname tocstyle@skipwidth@\tocstyleTOC @\the\@tempcnta\endcsname
25259             \advance\@tempdimb
25260             \csname tocstyle@numwidth@\tocstyleTOC @\the\@tempcnta\endcsname
25261           \fi
25262         \fi
25263       \fi
25264       \typeout{C (\tocstyleTOC, \tocstyledepth): \the\@tempdimb}%
25265       \ifcsname tocstyle@skipwidth@\tocstyleTOC @#1\endcsname
25266         \ifdim \@tempdimb>
25267           \csname tocstyle@skipwidth@\tocstyleTOC @#1\endcsname\relax
25268           \expandafter\xdef\csname tocstyle@skipwidth@\tocstyleTOC
25269             @#1\endcsname{\the\@tempdimb}%
25270         \fi
25271       \else
25272         \expandafter\xdef\csname tocstyle@skipwidth@\tocstyleTOC
25273           @#1\endcsname{\the\@tempdimb}%
25274       \fi
25275       \iftocstyle@autolength
25276         \ifcsname tocstyle@maxskipwidth@\tocstyleTOC @#1\endcsname
25277           \@tempdimb \csname tocstyle@maxskipwidth@\tocstyleTOC @#1\endcsname
25278           \relax
25279         \fi
25280         \ifcsname tocstyle@maxnumwidth@\tocstyleTOC @#1\endcsname

```



```

25281         \@tempdima \csname tocstyle@maxnumwidth@\tocstyleTOC @#1\endcsname
25282         \relax
25283     \fi
25284     \typeout{a (\tocstyleTOC, \tocstyledepth): \the\@tempdima}%
25285     \typeout{A (\tocstyleTOC, \tocstyledepth): \the\@tempdimb}%
25286 \else
25287     \@tempdimb #2\relax
25288     \typeout{M (\tocstyleTOC, \tocstyledepth): \the\@tempdimb}%
25289 \fi
25290 \ifcsname tocstyle@unumwidth@\tocstyleTOC @\endcsname
25291     \ifdim \@tempdima>
25292     \csname tocstyle@unumwidth@\tocstyleTOC @\endcsname\relax
25293     \expandafter\xdef\csname tocstyle@unumwidth@\tocstyleTOC
25294     @\endcsname{\the\@tempdima}%
25295     \fi
25296 \else
25297     \expandafter\xdef\csname tocstyle@unumwidth@\tocstyleTOC
25298     @\endcsname{\the\@tempdima}%
25299 \fi
25300 \ifcase\tocstyle@indentstyle\relax\else
25301     \@tempdimb \z@
25302     \ifcsname tocstyle@maxnumwidth@\tocstyleTOC @\endcsname
25303     \@tempdima \csname tocstyle@maxnumwidth@\tocstyleTOC @\endcsname
25304     \relax
25305     \fi
25306     \typeout{s (\tocstyleTOC, \tocstyledepth): \the\@tempdima}%
25307     \typeout{S (\tocstyleTOC, \tocstyledepth): \the\@tempdimb}%
25308 \fi
25309 \advance\parindent \@tempdimb\@afterindenttrue
25310 \advance\if@RTL\rightskip\else\leftskip\fi \parindent
25311 \advance\if@RTL\leftskip\else\rightskip\fi \@tocrmarg
25312 \parfillskip -\if@RTL\leftskip\else\rightskip\fi
25313 \ifx\tocstyle@feature@parfillskip\relax\else
25314     \advance\parfillskip \tocstyle@feature@parfillskip\relax
25315 \fi
25316 \interlinepenalty\@M
25317 \leavevmode
25318 \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima
25319 \null\nobreak
25320 \iftocstyle@indentnotnumbered\else
25321     \hskip -\if@RTL\rightskip\else\leftskip\fi
25322 \fi
25323 \tocstyle@feature@entryhook
25324 {#4}\nobreak
25325 \ifx\tocstyle@feature@leaders\relax
25326     \leaders\hbox{\$}\m@th
25327     \mkern \@dotsep mu\hbox{\tocstyle@feature@dothook .}%
25328     \mkern \@dotsep mu$\hfill
25329 \else
25330     \tocstyle@feature@leaders
25331 \fi
25332 \nobreak
25333 \ifx\tocstyle@feature@pagenumberbox\relax
25334     \hb@xt@\@pnumwidth{\hfil\tocstyle@feature@pagenumberhook #5}%

```



```

25335     \else
25336     \tocstyle@feature@pagenumberbox{\tocstyle@feature@pagenumberhook #5}%
25337     \fi
25338     \par
25339   }%
25340   \if@tocstyle@penalties
25341     \bgroup
25342     \@tempcnta 20009
25343     \advance\@tempcnta by -#1
25344     \edef\reserved@a{\egroup\penalty\the\@tempcnta\relax}%
25345     \reserved@a
25346     \fi
25347   \fi}
25348 \renewcommand*{\tocstyle@numberline}[1]{%
25349   \beginingroup
25350     \ifx\tocstyle@feature@spaceafternumber\relax
25351       \settowidth\@tempdima{\tocstyle@@numberline{#1}\enskip}%
25352     \else
25353       \settowidth\@tempdima{\tocstyle@@numberline{#1}}%
25354       \advance \@tempdima \tocstyle@feature@spaceafternumber\relax
25355     \fi
25356     \ifcsname tocstyle@numwidth@\tocstyleTOC @\tocstyledepth\endcsname
25357       \ifdim \@tempdima >
25358         \csname tocstyle@numwidth@\tocstyleTOC @\tocstyledepth\endcsname\relax
25359         \expandafter\xdef\csname tocstyle@numwidth@\tocstyleTOC
25360           @\tocstyledepth\endcsname{\the\@tempdima}%
25361       \fi
25362     \else
25363       \expandafter\xdef\csname tocstyle@numwidth@\tocstyleTOC
25364         @\tocstyledepth\endcsname{\the\@tempdima}%
25365     \fi
25366   \endgroup
25367   \iftocstyle@indentnotnumbered
25368     \hskip -\if@RTL\rightskip\else\leftskip\fi
25369   \fi
25370   \ifcase \tocstyle@indentstyle
25371     \hb@xt@\@tempdima{\tocstyle@@numberline{#1}\hfil}%
25372   \or
25373     \hb@xt@\@tempdima{\tocstyle@@numberline{#1}\hfil}%
25374   \else
25375     \ifx\tocstyle@feature@spaceafternumber\relax
25376       \hbox{\tocstyle@@numberline{#1}\enskip}%
25377     \else
25378       \hbox{\tocstyle@@numberline{#1}\hskip
25379         \tocstyle@feature@spaceafternumber\relax}%
25380     \fi
25381   \fi
25382 }
25383 \AtBeginDocument{%
25384   \ifcsname l@part\endcsname
25385     \ifcsname l@chapter\endcsname
25386       \setbox\@tempboxa\vbox{\hsize\maxdimen
25387         \l@part{\tocstyle@l@define{part}{-1}}{}}%
25388     \else

```



```

25389     \setbox\@tempboxa\vbox{\hsize\maxdimen
25390     \l@part{\tocstyle@l@define{part}{0}}{}}%
25391     \fi
25392 \fi
25393 \ifcsname l@chapter\endcsname
25394     \setbox\@tempboxa\vbox{\hsize\maxdimen
25395     \l@chapter{\tocstyle@l@define{chapter}{0}}{}}%
25396 \fi
25397 \ifcsname l@section\endcsname
25398     \setbox\@tempboxa\vbox{\hsize\maxdimen
25399     \l@section{\tocstyle@l@define{section}{1}}{}}%
25400 \fi
25401 \ifcsname l@subsection\endcsname
25402     \setbox\@tempboxa\vbox{\hsize\maxdimen
25403     \l@subsection{\tocstyle@l@define{subsection}{2}}{}}%
25404 \fi
25405 \ifcsname l@subsubsection\endcsname
25406     \setbox\@tempboxa\vbox{\hsize\maxdimen
25407     \l@subsubsection{\tocstyle@l@define{subsubsection}{3}}{}}%
25408 \fi
25409 \ifcsname l@paragraph\endcsname
25410     \setbox\@tempboxa\vbox{\hsize\maxdimen
25411     \l@paragraph{\tocstyle@l@define{paragraph}{4}}{}}%
25412 \fi
25413 \ifcsname l@subparagraph\endcsname
25414     \setbox\@tempboxa\vbox{\hsize\maxdimen
25415     \l@subparagraph{\tocstyle@l@define{subparagraph}{5}}{}}%
25416 \fi
25417 \ifcsname l@table\endcsname
25418     \setbox\@tempboxa\vbox{\hsize\maxdimen
25419     \l@table{\tocstyle@l@define{table}{1}}{}}%
25420 \fi
25421 \ifcsname l@figure\endcsname
25422     \setbox\@tempboxa\vbox{\hsize\maxdimen
25423     \l@figure{\tocstyle@l@define{figure}{1}}{}}%
25424 \fi
25425 \def\@tempa#1#2#3#4#5{%
25426     \ifnum #1>\c@tocdepth \else
25427     \vskip \z@ \@plus.2\p@
25428     {\if@RTL\rightskip\else\leftskip\fi #2\relax \if@RTL\leftskip\else\rightskip\fi \@toc
25429     \parindent #2\relax\@afterindenttrue
25430     \interlinepenalty\@M
25431     \leavevmode
25432     \@tempdima #3\relax
25433     \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\ri
25434     {#4}\nobreak
25435     \leaders\hbox{$\m@th
25436     \mkern \dotsep mu\hbox{.}\mkern \dotsep
25437     mu$}\hfill
25438     \nobreak
25439     \hb@xt@\@pnumwidth{{\hfil \normalfont \normalcolor #5}}%
25440     \par}%
25441 \fi}%
25442 \ifx\@dottedtocline\@tempa\else

```



```

25443 \tocstyle@macrochangewarning@dottedtocline
25444 \fi
25445 \let\tocstyle@saved@dottedtocline@dottedtocline
25446 \def\@tempa#1{\hb@xt@\@tempdima{#1\autodot\hfil}}%
25447 \ifx\numberline\@tempa\else
25448 \def\@tempa#1{\hb@xt@\@tempdima{#1\hfil}}%
25449 \ifx\numberline\@tempa\else
25450 \tocstyle@macrochangewarning\numberline
25451 \fi
25452 \fi
25453 \let\tocstyle@saved@numberline\numberline
25454 }
25455 \renewcommand*{\tocstyle@l@define}[2]{%
25456 \advance\if@RTL\rightskip\else\leftskip\fi-\@tempdima
25457 \edef\@tempa{%
25458 \noexpand\global\noexpand\let
25459 \expandafter\noexpand\csname tocstyle@saved@l@#1\endcsname
25460 \expandafter\noexpand\csname l@#1\endcsname
25461 \noexpand\gdef
25462 \expandafter\noexpand\csname tocstyle@l@#1\endcsname{%
25463 \noexpand\@dottedtocline{#2}{\the\if@RTL\rightskip\else\leftskip\fi}{\the\@tempdima}}%
25464 \noexpand\g@addto@macro\noexpand\tocstyle@activate@all@l{%
25465 \noexpand\let\expandafter\noexpand\csname l@#1\endcsname
25466 \expandafter\noexpand\csname tocstyle@l@#1\endcsname
25467 }%
25468 }%
25469 \PackageInfo{tocstyle}{prepare \expandafter\string
25470 \csname l@#1\endcsname\space for redefinition}%
25471 \@tempa
25472 }

```

## 159 File todonotes-xetex-bidi.def

```

25473 \ProvidesFile{todonotes-xetex-bidi.def}[2016/11/08 v0.4 bidi adaptations for todonotes packa
25474 \newif\if@bidi@todonotes@textdirection@RTL
25475 \newif\if@bidi@todonotes@figposition@right
25476 \newcommand{\@bidi@todonotes@align}{}%
25477 \define@key{todonotes}{align}{\renewcommand{\@bidi@todonotes@align}{#1}}%
25478 \newcommand{\@bidi@todonotes@textdirection}{}%
25479 \define@choicekey{todonotes}{textdirection}[\@bidi@todonotes@tempa\@bidi@todonotes@tempb]{right,
25480 \ifcase\@bidi@todonotes@tempb\relax
25481 \@bidi@todonotes@textdirection@RTLtrue
25482 \let\@bidi@todonotes@textdirection\RLE
25483 \or
25484 \@bidi@todonotes@textdirection@RTLfalse
25485 \let\@bidi@todonotes@textdirection\LRE
25486 \fi}
25487 \define@choicekey{todonotes}{figposition}[\@bidi@todonotes@tempa\@bidi@todonotes@tempb]{right,
25488 \ifcase\@bidi@todonotes@tempb\relax
25489 \@bidi@todonotes@figposition@righttrue
25490 \or
25491 \@bidi@todonotes@figposition@rightfalse
25492 \fi}
25493 \if@todonotes@disabled%

```



```

25494 \else % \if@todonotes@disabled
25495 \renewcommand{\@todonotes@drawInlineNote}{%
25496   \if@todonotes@dviStyle%
25497     {\par\noindent\begin{tikzpicture}[remember picture]%
25498       \draw node[inlinenotestyle] {};\end{tikzpicture}\par}%
25499     \if@todonotes@authorgiven%
25500       {\noindent \@todonotes@sizecommand \@todonotes@author:\,\@todonotes@text}%
25501     \else%
25502       {\noindent \@todonotes@sizecommand \@todonotes@text}%
25503     \fi
25504     {\par\noindent\begin{tikzpicture}[remember picture]%
25505       \draw node[inlinenotestyle] {};\end{tikzpicture}\par}%
25506   \else%
25507     {\par\noindent\begin{tikzpicture}[remember picture]%
25508       \if@bidi@todonotes@textdirection@RTL\setRTL\fi%
25509       \draw node[inlinenotestyle,font=\@todonotes@sizecommand,align=\@bidi@todonotes@
25510         \if@todonotes@authorgiven%
25511           {\noindent \@todonotes@sizecommand \@todonotes@author:\,\@todonotes@text
25512         \else%
25513           {\noindent \@todonotes@sizecommand \@todonotes@text}%
25514         \fi};%
25515       \end{tikzpicture}\par}%
25516   \fi}%
25517 \renewcommand{\@todonotes@drawMarginNoteWithLine}{%
25518 \begin{tikzpicture}[remember picture, overlay, baseline=-0.75ex]%
25519   \node [coordinate] (inText) {};%
25520 \end{tikzpicture}%
25521 \marginpar[{} Draw note in left margin
25522   \@todonotes@drawMarginNote%
25523   \if@RTL@\@todonotes@drawLineToRightMargin\else\@todonotes@drawLineToLeftMargin\fi%
25524 ]{} Draw note in right margin
25525   \@todonotes@drawMarginNote%
25526   \if@RTL@\@todonotes@drawLineToLeftMargin\else\@todonotes@drawLineToRightMargin\fi%
25527 }%
25528 }%
25529 \renewcommand{\@todonotes@drawMarginNote}{%
25530 \if@todonotes@dviStyle%
25531   \begin{tikzpicture}[remember picture]%
25532     \draw node[notestyle] {};%
25533   \end{tikzpicture}\%
25534   \begin{minipage}{\@todonotes@textwidth}%
25535     \if@todonotes@authorgiven%
25536       \@todonotes@sizecommand \@todonotes@author \@todonotes@text%
25537     \else%
25538       \@todonotes@sizecommand \@todonotes@text%
25539     \fi%
25540   \end{minipage}\%
25541   \begin{tikzpicture}[remember picture]%
25542     \draw node[notestyle] (inNote) {};%
25543   \end{tikzpicture}%
25544 \else%
25545   \let\originalHbadness\hbadness%
25546   \hbadness 100000%
25547   \begin{tikzpicture}[remember picture,baseline=(X.base)]%

```



```

25548     \if@bidi@todonotes@textdirection@RTL\setRTL\fi%
25549     \node(X){\vphantom{X}};%
25550     \draw node[notestyle,font=\@todonotes@sizecommand,anchor=north,align=\@bidi@todonotes@align]{\@todonotes@text};%
25551     \if@todonotes@authorgiven%
25552     \draw node[notestyle,font=\@todonotes@sizecommand,anchor=north,align=\@bidi@todonotes@align]{\@todonotes@sizecommand\@todonotes@author};%
25553     \node(Y)[below=of X]{};%
25554     \draw node[notestyle,font=\@todonotes@sizecommand,anchor=north,align=\@bidi@todonotes@align]{\@todonotes@text};%
25555     \else%
25556     \draw node[notestyle,font=\@todonotes@sizecommand,anchor=north,align=\@bidi@todonotes@align]{\@todonotes@text};%
25557     \fi%
25558     \draw node[notestyle,font=\@todonotes@sizecommand,anchor=north,align=\@bidi@todonotes@align]{\@todonotes@text};%
25559     \end{tikzpicture}%
25560     \hbadness \originalHbadness%
25561 \fi}%
25562 \renewcommand{\missingfigure}[2] [] {%
25563 \setkeys{todonotes}{#1}%
25564 \addcontentsline{tdo}{todo}{\@todonotes@MissingFigureText: #2}%
25565 \par
25566 \noindent
25567 \begin{tikzpicture}
25568 \draw[fill=\@todonotes@currentfigcolor, draw = black!40, line width=2pt]
25569 (-2, -2.5) rectangle +(\@todonotes@currentfigwidth, \@todonotes@currentfigheight);
25570 \if@bidi@todonotes@figposition@right%
25571 \begin{scope}[xshift=\@todonotes@currentfigwidth-4cm]
25572 \draw[red, fill=white, rounded corners = 5pt, line width=10pt]
25573 (30:2cm) -- (150:2cm) -- (270:2cm) -- cycle;
25574 \if@bidi@todonotes@figposition@right%
25575 \end{scope}
25576 \begin{scope}[xshift=-3.8cm]
25577 \fi%
25578 \if@bidi@todonotes@textdirection@RTL\setRTL\fi%
25579 \draw (2, -0.3) node[right, text
25580 width=\@todonotes@currentfigwidth-4.5cm,align=\@bidi@todonotes@align] {#2};
25581 \if@bidi@todonotes@figposition@right%
25582 \end{scope}
25583 \begin{scope}[xshift=\@todonotes@currentfigwidth-4cm]
25584 \fi%
25585 \draw (0, 0.3) node[align=\@bidi@todonotes@align] {\@bidi@todonotes@textdirection{\@todonotes@text}};
25586 \draw (0, -0.3) node[align=\@bidi@todonotes@align] {\@bidi@todonotes@textdirection{\@todonotes@text}};
25587 \if@bidi@todonotes@figposition@right%
25588 \end{scope}
25589 \fi%
25590 \end{tikzpicture}\hfill
25591 }% Ending \missingfigure command
25592 \fi % Ending \@todonotes@ifdisabled
25593 \presetkeys%
25594 {todonotes}%
25595 {align=left,%
25596 textdirection=lefttoright,%
25597 figposition=left}{}%

```





## 160 File wrapfig-xetex-bidi.def

```
25602 \ProvidesFile{wrapfig-xetex-bidi.def}[2014/04/23 v0.3 bidi adaptations for wrapfig package f
25603 \let\WF@everypar\ bidi@n@everypar
25604 \def\WF@putfigmaybe{%
25605 \ifinner
25606 \vskip-\parskip \global\WF@floatfalse
25607 \let\pagetotal\maxdimen % kludge flag for "not top of page"
25608 \else % outer page
25609 \@tempdima\pagedepth % save page depth
25610 {\advance\parskip\@tempdima\if@RTL\advance\parskip\baselineskip\fi\vskip-\parskip}% back
25611 \penalty\interlinepenalty % update pg. parameters
25612 \@tempdimb\pagegoal \advance\@tempdimb-\pagetotal % room left on page
25613 \ifdim\@tempdimb<\z@ % \WF@info{Page overfull already;}%
25614 \global\WF@floatfalse
25615 \ifdim-\@tempdimb>\pageshrink \else \pagebreak \fi
25616 \else
25617 \ifdim\WF@size>\@tempdimb
25618 \ifWF@float \dimen@.5\baselineskip \else \dimen@ 2\baselineskip\fi
25619 \ifdim\pagestretch>\dimen@ \dimen@\pagestretch \fi
25620 \ifdim\pagefilstretch>\z@ \dimen@\@tempdimb \fi
25621 \ifdim\pagefillstretch>\z@ \dimen@\@tempdimb \fi
25622 \advance\dimen@.5\baselineskip
25623 \ifdim\dimen@>\@tempdimb % \WF@info{Page nearly full; can stretch;}%
25624 \global\WF@floatfalse \pagebreak
25625 \fi
25626 \else % \WF@info{Fits in \the\@tempdimb;}%
25627 \global\WF@floatfalse
25628 \fi\fi
25629 \vskip\@tempdima\relax % (return erased page depth)
25630 \fi
25631 \noindent
25632 \ifWF@float
25633 \WF@fltmes
25634 \else % putting here;
25635 \WF@info{Put \WF@wfname here;}%
25636 {\ifodd\if@twoside\c@page\else\@ne\fi % assign l/r to i/o placement
25637 \lccode`i`l\lccode`o`r\else \lccode`i`r\lccode`o`l\fi
25638 \xdef\WF@place{\the\lccode\lccode\WF@place}}% twice to get only l or r
25639 \hbox to\z@{% llap or rlap depending on {l} or {r}; calc effective width
25640 \@tempdima\wd\WF@box \@tempdimb\WF@ovh
25641 \advance\@tempdima-\@tempdimb \advance\@tempdima\columnsep
25642 \@tempdimb\hsize \advance\@tempdimb-\@tempdima
25643 \xdef\WF@adjlw{\the\@tempdima}%
25644 \ifnum `l=\WF@place % fig on left
25645 \if@RTL%
25646 \kern\@tempdimb \kern\columnsep
25647 \def\@tempa{\hss}% position to left of the gap
25648 \else%
25649 \hss % figure overlaps space to the left
25650 \def\@tempa{\kern\columnsep}% position to left of the gap
25651 \fi%
25652 \else % fig on right
25653 \if@RTL%
```



```

25654 \hss
25655 \@tempdima\z@
25656 \def\@tempa{\kern\columnsep}
25657 \else%
25658 \@tempdima\z@ % no left indentation
25659 \kern\@tempdimb \kern\columnsep
25660 \def\@tempa{\hss}% figure overlaps space to the right
25661 \fi%
25662 \fi
25663 \ifdim\@tempdimb<\hsz
25664 \xdef\WF@wrapil{\the\@tempdima \the\@tempdimb}% indentation and length
25665 \xdef\WF@adjtlm{\the\@tempdima}%
25666 \else
25667 \xdef\WF@wrapil{\z@ \the\hsz}%
25668 \xdef\WF@adjlw{\z@}\xdef\WF@adjtlm{\z@}%
25669 \fi
25670 \ifdim\pagetotal=\z@ % \WF@info{Put \WF@wfname at top of p.\thepage}%
25671 \global\advance\WF@size-\intextsep
25672 \else % \WF@info{Putting \WF@wfname in middle of page}%
25673 \setbox\WF@box\hbox{\lower\intextsep\box\WF@box}%
25674 \fi \dp\WF@box\z@ \box\WF@box \@tempa
25675 }% end \hbox to 0pt
25676 \aftergroup\WF@startwrapping % after the \endgroup which immediately follows
25677 \fi}

```

## 161 File xcolor-xetex-bidi.def

```

25678 \ProvidesFile{xcolor-xetex-bidi.def}[2022/06/13 v0.3 bidi adaptations for xcolor package for
25679 \long\def\color@b@x#1#2#3%
25680 {\leavevmode\ifmmode\else\ifRTL\beginL\fi\fi
25681 \setbox\z@\hbox{\kern\fbxsep{\set@color\ifRTL\beginR\fi#3\ifRTL\endR\fi}\kern\fbxsep}%
25682 \dimen@ht\z@\advance\dimen@\fbxsepht\z@\dimen@
25683 \dimen@dp\z@\advance\dimen@\fbxsepdp\z@\dimen@
25684 {#1{#2\color@block{\wd\z@}{\ht\z@}{\dp\z@}\box\z@}}\ifmmode\else\ifRTL\endL\fi\fi}
25685 \protected\def\normalcolor{\let\current@color\default@color\ifhmode\ifRTL\beginL\aftergroup
25686 \DeclareRobustCommand\color
25687 {\ifhmode\ifRTL\beginL\aftergroup\endR\fi\fi\@ifnextchar[\@undeclaredcolor\@declaredcolor]}
25688 \def\@undeclaredcolor[#1]#2%
25689 {\begingroup
25690 \let\@@cls\@empty
25691 \XC@getmodclr12{#1}{#2}{}%
25692 {\ifblendcolors
25693 \ifx\colorblend\@empty\else
25694 \edef\@@mix{\expandafter\@gobble\colorblend}\@tempswafalse
25695 \XC@coremodel\@mod\@@clr\xcolor@{ }\@mod\@@clr
25696 \fi
25697 \fi
25698 \ifconvertcolorsU
25699 \edef\@@tmp{\XC@tgt@mod{\@mod}}%
25700 \convertcolorspec\@mod\@@clr\@@tmp\@@clr \let\@mod\@@tmp
25701 \fi
25702 \ifmaskcolors
25703 \convertcolorspec\@mod\@@clr\XC@mmod\@@clr
25704 \let\@mod\XC@mmod

```



```

25705     \XC@inflate\@mod\XC@mclr\@clr\@tmp
25706     \expandafter\XC@mul\@tmp, \@clr
25707     \fi
25708     \edef\@tmp{\noexpand\XC@undeclaredcolor{\@mod}{\@clr}}%
25709     \expandafter\endgroup\@tmp}}
25710 \def\@declaredcolor#1%
25711 {\XC@edef\XC@tmp{#1}\XC@tstfalse
25712 \ifcase\XC@type\XC@tmp\relax \XC@tsttrue\or \relax\else
25713 \ifblendcolors\XC@tsttrue\fi \ifmaskcolors\XC@tsttrue\fi
25714 \ifconvertcolorsU\XC@tsttrue\fi
25715 \fi
25716 \ifXC@tst
25717 \expandafter\XC@declaredcolor\else
25718 \expandafter\XC@declaredcolor\fi}
25719 \def\XC@undeclaredcolor#1#2%
25720 {\@ifundefinedmodel{#1}%
25721 {\color@error{model `#1'}}%
25722 {\@nameuse{color@#1}\current@color{#2}}%
25723 \edef\XC@current@color{\noexpand\xcolor@}{\current@color}{#1}{#2}}%
25724 \XC@display}\ifhmode\if@RTL\beginR\aftergroup\endL\fi\fi\ignorespaces}
25725 \def\XC@declaredcolor
25726 {\XC@let\Nc\XC@current@color{\string\color@\XC@tmp}}%
25727 \edef\current@color{\XC@current@color}%
25728 \XC@display\ifhmode\if@RTL\beginR\aftergroup\endL\fi\fi\ignorespaces}
25729 \DeclareRobustCommand\bidicolor
25730 {\@ifnextchar[\@bidiundeclaredcolor\@bidideclaredcolor}
25731 \def\@bidiundeclaredcolor[#1]#2%
25732 {\begingroup
25733 \let\@cls\@empty
25734 \XC@getmodclr12{#1}{#2}{}}%
25735 {\ifblendcolors
25736 \ifx\colorblend\@empty\else
25737 \edef\@mix{\expandafter\@gobble\colorblend}\@tempwafalse
25738 \XC@coremodel\@mod\@clr\xcolor@}{\@mod\@clr
25739 \fi
25740 \fi
25741 \ifconvertcolorsU
25742 \edef\@tmp{\XC@tgt@mod{\@mod}}%
25743 \convertcolorspec\@mod\@clr\@tmp\@clr \let\@mod\@tmp
25744 \fi
25745 \ifmaskcolors
25746 \convertcolorspec\@mod\@clr\XC@mmod\@clr
25747 \let\@mod\XC@mmod
25748 \XC@inflate\@mod\XC@mclr\@clr\@tmp
25749 \expandafter\XC@mul\@tmp, \@clr
25750 \fi
25751 \edef\@tmp{\noexpand\XC@bidiundeclaredcolor{\@mod}{\@clr}}%
25752 \expandafter\endgroup\@tmp}}
25753 \def\XC@bidiundeclaredcolor#1#2%
25754 {\@ifundefinedmodel{#1}%
25755 {\color@error{model `#1'}}%
25756 {\@nameuse{color@#1}\current@color{#2}}%
25757 \edef\XC@current@color{\noexpand\xcolor@}{\current@color}{#1}{#2}}%
25758 \XC@display}}

```



```

25759 \def\@bidideclaredcolor#1%
25760 {\XC@edef\XC@@tmp{#1}\XC@tstfalse
25761 \ifcase\XC@type\XC@@tmp\relax \XC@tsttrue\or \relax\else
25762 \ifblendcolors\XC@tsttrue\fi \ifmaskcolors\XC@tsttrue\fi
25763 \ifconvertcolorsU\XC@tsttrue\fi
25764 \fi
25765 \ifXC@@tst
25766 \expandafter\XC@bidideclaredcolor\else
25767 \expandafter\XC@bidideclaredcolor\fi}
25768 \def\XC@bidideclaredcolor
25769 {\XC@split\XC@@tmp
25770 \edef\@tmp{\noexpand\@bidiundeclaredcolor[\@mod]{\@clr}}%
25771 \expandafter\endgroup\@tmp}
25772 \def\XC@bidideclaredcolor
25773 {\XC@let\Nc\XC@current@color{\string\color@\XC@@tmp}%
25774 \edef\current@color{\XC@current@color}%
25775 \XC@display}
25776 \def\color@box#1#2{\color@b@x\relax{\bidicolor#1{#2}}}
25777 \def\color@fbox#1#2#3#4{\protect\color@fb@x{#1}{#2}{#3}}
25778 \def\color@fb@x#1#2#3#4%
25779 {\color@b@x{fboxsep\z@\bidicolor#1{#2}\XC@fbox}%
25780 {\@ifempty{#3}{\bidicolor#1}{\bidicolor#3}{#4}}}
25781 \def\color@setgroup{\begingroup\ifhmode\if@RTL\beginL\aftergroup\endR\fi\fi\set@color\ifhmode

```

## 162 File latex-xetex-bidi.def

```

25782 \ProvidesFile{latex-xetex-bidi.def}[2025/01/03 v1.5.2 bidi adaptations for `latex.ltx' for
25783 \newcommand{\TeXXeTOn}{\TeXXeTstate\@ne}
25784 \newcommand{\TeXXeTOff}{\TeXXeTstate\z@}
25785 \TeXXeTOn
25786 \def\bidi@RTL@everypar{\setbox\z@\lastbox\if@RTL\beginR\else\beginL\fi\ifvoid\z@\else\usebox\z@}
25787 \let\bidi@o@everypar=\everypar
25788 \newtoks\bidi@n@everypar
25789 \bidi@n@everypar\expandafter{\the\bidi@o@everypar}
25790 \bidi@o@everypar{\bidi@RTL@everypar\the\bidi@n@everypar}
25791 \let\everypar=\bidi@n@everypar
25792 \def\moreLRE{\bracetext \aftergroup\endL \beginL \@RTLfalse}
25793 \def\moreRLE{\bracetext \aftergroup\endR \beginR \@RTLtrue}
25794 \protected\def\hboxR{\hbox\bgroup
25795 \everyhbox{%
25796 \aftergroup\egroup
25797 \everyhbox{}}%
25798 \beginR
25799 \@hboxRconstructtrue
25800 \bgroup
25801 \aftergroup\endR
25802 \aftergroup\egroup
25803 }\hbox}
25804 \protected\def\hboxL{\hbox\bgroup
25805 \everyhbox{%
25806 \aftergroup\egroup
25807 \everyhbox{}}%
25808 \beginL
25809 \@hboxRconstructfalse

```



```

25810 \bgroup
25811 \aftergroup\endL
25812 \aftergroup\egroup
25813 }\hbox}
25814 \protected\def\ vboxR{\ vbox\bgroup
25815 \everyvbox{%
25816 \aftergroup\egroup
25817 \everyvbox{}}%
25818 \@RTLtrue
25819 \@RTLtabtrue
25820 \bgroup
25821 \aftergroup\egroup
25822 }\ vbox}
25823 \protected\def\ vboxL{\ vbox\bgroup
25824 \everyvbox{%
25825 \aftergroup\egroup
25826 \everyvbox{}}%
25827 \@RTLfalse
25828 \@RTLtabfalse
25829 \bgroup
25830 \aftergroup\egroup
25831 }\ vbox}
25832 \newcommand*{\ bidi@leftskip}{\ if@RTL\ rightskip\ else\ leftskip\ fi}
25833 \newcommand*{\ bidi@rightskip}{\ if@RTL\ leftskip\ else\ rightskip\ fi}
25834 \def\ LTR{\ par\ @RTLfalse\ @RTL@footnotefalse\ @RTLtabfalse\ hsize\ linewidth\ parshape\ z@\ bidi@beamer}
25835 \def\ endLTR{\ par}
25836 \newenvironment{LTR*}{\ LTR
25837 \everypar{%
25838 \ setbox\ z@\ lastbox
25839 \ ifvoid\ z@
25840 \ kern-\ parindent
25841 \ fi}%
25842 }%
25843 }{\ endLTR\ @endpetrue}
25844 \def\ RTL{\ par\ @RTLtrue\ @RTL@footnotetrue\ @RTLtabtrue\ hsize\ linewidth\ parshape\ z@\ bidi@beamer}
25845 \def\ endRTL{\ par}
25846 \newenvironment{RTL*}{\ RTL
25847 \everypar{%
25848 \ setbox\ z@\ lastbox
25849 \ ifvoid\ z@
25850 \ kern-\ parindent
25851 \ fi}%
25852 }%
25853 }{\ endRTL\ @endpetrue}
25854 \def\ setRTL{\ @RTLtrue\ @RTL@footnotetrue\ @RTLtabtrue\ bidi@beamer@ragged}
25855 \def\ setLTR{\ @RTLfalse\ @RTL@footnotefalse\ @RTLtabfalse\ bidi@beamer@ragged}
25856 \let\ unsetRTL=\ setLTR
25857 \let\ unsetLTR=\ setRTL
25858 \let\ LR=\ LRE
25859 \let\ RL=\ RLE
25860 \def\ @ensure@RTL#1{\ if@RTL#1\ else\ RLE{#1}\ fi}
25861 \def\ @ensure@LTR#1{\ if@RTL\ LRE{#1}\ else#1\ fi}
25862 \let\ @ensure@RL=\ @ensure@RTL
25863 \let\ @ensure@LR=\ @ensure@LTR

```



```

25864 \def\@ensure@dir#1{\if@RTL\RL{#1}\else{#1}\fi}
25865 \let\@ensure@maindir=\@ensure@dir
25866 \def\@RTL{RTL}
25867 \def\@LTR{LTR}
25868 \def\save@dir{\if@RTL\gdef\saved@dir{RTL}\else\gdef\saved@dir{LTR}\fi}
25869 \def\reset@dir{\ifx\saved@dir\@RTL\setRTL\else\ifx\saved@dir\@LTR\setLTR\else\relax\fi}
25870 \let\@TeX\TeX
25871 \def\TeX{\@ensure@LTR{\@TeX}}
25872 \let\@LaTeX\LaTeX
25873 \def\LaTeX{\@ensure@LTR{\@LaTeX}}
25874 \let\@LaTeXe\LaTeXe
25875 \def\LaTeXe{\@ensure@LTR{\@LaTeXe}}
25876 \long\def\@bidi@reflect@box#1{%
25877   \leavevmode
25878   \setbox\z@\hbox{#1}}%
25879   \setbox\tw@\hbox{\special{x:gsave}\special{x:scale -1 1}\rlap{\copy\z@}\special{x:grestore}}%
25880   \hbext@wd\z@{\kern\wd\z@\box\tw@\hss}}%
25881 }
25882 \if@bidi@csundef{XeTeX}{%
25883 \bidi@newrobustcmd*{XeTeX}{\LR{\leavevmode$\smash{\hbox{X}\lower.5ex
25884   \hbox{\kern-.125em\@bidi@reflect@box{E}}\kern-.1667em \TeX}}$}}%
25885 }{%
25886 \let\@bidi@orig@XeTeX\TeX
25887 \bidi@renewrobustcmd*{XeTeX}{\LR{\@bidi@orig@XeTeX}}%
25888 }
25889 \if@bidi@csundef{XeLaTeX}{%
25890 \bidi@newrobustcmd*{XeLaTeX}{\LR{\leavevmode$\smash{\hbox{X}\lower.5ex
25891   \hbox{\kern-.125em\@bidi@reflect@box{E}}\kern-.1667em \LaTeX}}$}}%
25892 }{%
25893 \let\@bidi@orig@XeLaTeX\XeLaTeX
25894 \bidi@renewrobustcmd*{XeLaTeX}{\LR{\@bidi@orig@XeLaTeX}}%
25895 }
25896 \let\setRL=\setRTL
25897 \let\setLR=\setLTR
25898 \let\unsetRL=\setLTR
25899 \def\@bidi@tabular@RTLcases{\let\@halignto\@empty\@bidi@tabular@RTLcases}
25900 \ApplyPatchIfPackageLoaded{array}{%
25901 \def\@bidi@tabular@RTLcases{\@RTLtabtrue%
25902   \leavevmode
25903   \hbox \bgroup $\left.\col@sep\tabcolsep \let\d@llarbegin\begin\group
25904     \let\d@llarend\end\group
25905   \@tabarray}
25906 \def\endbidi@tabular@RTLcases{\endarray \right\rbrace$\egroup}
25907 }{%
25908 \def\@bidi@tabular@RTLcases{\@RTLtabtrue%
25909   \leavevmode \hbox \bgroup
25910   $\left.\let\@acol\@tabacol
25911   \let\@classz\@tabclassz
25912   \let\@classiv\@tabclassiv \let\\\@tabularcr\@tabarray}
25913 }
25914 \def\endbidi@tabular@RTLcases{\crr\egroup\if@RTLtab\egroup\endR\egroup\fi
25915   \egroup\right\rbrace $\egroup}}
25916 \def\RTLcases#1{\left.\vcenter{\normalbaselines\m@th
25917   \ialign{##\hfil$&\quad{##}\hfil\crr#1\crr}}\,\right\}}

```



```

25918 \renewenvironment{RTLcases}{%
25919   \bidi@matrix@check\RTLcases\env@RTLcases
25920 }{%
25921   \endbidi@tabular@RTLcases%
25922 }
25923 \def\env@RTLcases{%
25924   \let\@ifnextchar\bidi@new@ifnextchar
25925   \def\arraystretch{1.2}%
25926   \bidi@tabular@RTLcases{@{}r@{\quad}r@{}}%
25927 }
25928 \def\SepMark#1{\gdef\@SepMark{#1}}
25929 \SepMark{.}
25930 \def\@thmcountersep{\@SepMark}
25931 \def\setRTLbibitems{\@RTLbibitemstrue\@LTRbibitemsfalse}
25932 \def\setLTRbibitems{\@LTRbibitemstrue\@RTLbibitemsfalse}
25933 \def\setdefaultbibitems{\@RTLbibitemsfalse\@LTRbibitemsfalse}
25934 \newcommand*{\bidi@thebibliography@font@hook}{}
25935 \def\list#1#2{%
25936   \ifnum \@listdepth >5\relax
25937     \@toodeep
25938   \else
25939     \global\advance\@listdepth\@ne
25940   \fi
25941   \rightmargin\z@
25942   \listparindent\z@
25943   \itemindent\z@
25944   \csname @list\romannumeral\the\@listdepth\endcsname
25945   \def\@itemlabel{#1}%
25946   \let\makelabel\@mklab
25947   \@nbrlistfalse
25948   #2\relax
25949   \@trivlist
25950   \parskip\parsep
25951   \parindent\listparindent
25952   \advance\linewidth -\rightmargin
25953   \advance\linewidth -\leftmargin
25954   \if@bidi@list@minipage@parbox
25955     \if@RTL
25956       \advance\@totalleftmargin \leftmargin
25957     \else
25958       \advance\@totalleftmargin \rightmargin
25959     \fi
25960   \else
25961     \if@hboxRconstruct
25962     \if@bidi@list@minipage@parbox@not@nob
25963     \if@RTL
25964       \advance\@totalleftmargin \rightmargin
25965     \else
25966       \advance\@totalleftmargin \leftmargin
25967     \fi
25968   \else
25969     \if@RTL
25970     \advance\@totalleftmargin \leftmargin
25971   \else

```



```

25972 \advance\@totalleftmargin \rightmargin
25973 \fi\fi
25974 \else
25975 \if@RTL
25976 \advance\@totalleftmargin \rightmargin
25977 \else
25978 \advance\@totalleftmargin \leftmargin
25979 \fi\fi\fi
25980 \parshape \@ne \@totalleftmargin \linewidth
25981 \ignorespaces}
25982 \long\def\@iiiparbox#1#2[#3]#4#5{%
25983 \leavevmode
25984 \@pboxswfalse
25985 \if@hboxRconstruct
25986 \@bidi@list@minipage@parbox@not@nobtrue
25987 \fi
25988 \if@RTL
25989 \ifx#1t%
25990 \@bidi@list@minipage@parboxtrue
25991 \else
25992 \ifx#1b%
25993 \@bidi@list@minipage@parboxtrue
25994 \fi
25995 \fi
25996 \fi
25997 \setlength\@tempdima{#4}%
25998 \@begin@tempboxa\vbox{\hsize\@tempdima\@parboxrestore#5\@par}%
25999 \ifx\relax#2\else
26000 \setlength\@tempdimb{#2}%
26001 \edef\@parboxto{to\the\@tempdimb}%
26002 \fi
26003 \if#1b\vbox
26004 \else\if #1t\vtop
26005 \else\ifmmode\vcenter
26006 \else\@pboxswtrue $\vcenter
26007 \fi\fi\fi
26008 \@parboxto{\let\hss\vss\let\unhbox\unvbox
26009 \csname bm@#3\endcsname}%
26010 \if@pboxsw \m@th$\fi
26011 \@end@tempboxa}
26012 \newenvironment{LTRitems}
26013 {\par\@RTLfalse\@RTLtabfalse\bidi@beamer@ragged
26014 \if@bidi@list@minipage@parbox
26015 \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth
26016 \else \if@hboxRconstruct\if@bidi@list@minipage@parbox@not@nob
26017 \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth\else
26018 \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth\fi
26019 \else \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth\fi
26020 \ignorespaces}{\vskip\z@}
26021 \newenvironment{RTLitems}
26022 {\par\@RTLtrue\@RTLtabtrue\bidi@beamer@ragged
26023 \if@bidi@list@minipage@parbox
26024 \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth
26025 \else \if@hboxRconstruct\if@bidi@list@minipage@parbox@not@nob

```





```

26026         \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth\else
26027         \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth\fi
26028         \else \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth\fi
26029         \ignorespaces}{\vskip\z@}
26030 \newenvironment{LTRbibitems}
26031         {\par\@RTLfalse\@RTLtabfalse\@bidi@beamer@ragged
26032         \if@bidi@list@minipage@parbox
26033         \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth
26034         \else \if@hboxRconstruct\if@bidi@list@minipage@parbox\not@nob
26035         \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth\else
26036         \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth\fi
26037         \else \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth\fi
26038         \ignorespaces}{\vskip\z@}
26039 \newenvironment{RTLbibitems}
26040         {\par\@RTLtrue\@RTLtabtrue\@bidi@beamer@ragged
26041         \if@bidi@list@minipage@parbox
26042         \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth
26043         \else \if@hboxRconstruct\if@bidi@list@minipage@parbox\not@nob
26044         \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth\else
26045         \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth\fi
26046         \else \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth\fi
26047         \ignorespaces}{\vskip\z@}
26048 \def\raggedright{%
26049   \let\\\@centercr\@rightskip\@flushglue \rightskip\@rightskip
26050   \leftskip\z@skip
26051   \parindent\z@\parfillskip\z@skip}
26052 \let\@bidi@orig@raggedleft\raggedleft
26053 \let\@bidi@orig@raggedright\raggedright
26054 \renewcommand\raggedleft{\if@bidi@list@minipage@parbox\@bidi@orig@raggedright\else\if@hboxRco
26055 \renewcommand\raggedright{\if@bidi@list@minipage@parbox\@bidi@orig@raggedleft\else\if@hboxRco
26056 \newcommand{\@bidi@raggedright}{\if@RTL\raggedleft\else\raggedright\fi}
26057 \newcommand{\@bidi@raggedleft}{\if@RTL\raggedright\else\raggedleft\fi}
26058 \DeclareRobustCommand\centerline[1]{%
26059 \if@RTL\@@line{\hss\beginR#1\endR\hss}
26060 \else\@@line{\hss#1\hss}\fi}
26061 \def\@bidi@orig@leftline#1{%
26062 \if@RTL\@@line{\beginR#1\endR\hss}
26063 \else\@@line{#1\hss}\fi}
26064 \def\@bidi@orig@rightline#1{%
26065 \if@RTL\@@line{\hss\beginR#1\endR}
26066 \else\@@line{\hss#1}\fi}
26067 \DeclareRobustCommand\leftline[1]{\ifhmode\if@RTL\@bidi@orig@rightline{#1}\else\@bidi@orig@lef
26068 \DeclareRobustCommand\rightline[1]{\ifhmode\if@RTL\@bidi@orig@leftline{#1}\else\@bidi@orig@rig
26069 \DeclareRobustCommand\bidirlap[1]{\hbext@z@{\if@RTL\hss\fi#1\if@RTL\else\hss\fi}}
26070 \DeclareRobustCommand\bidillap[1]{\hbext@z@{\if@RTL\else\hss\fi#1\if@RTL\hss\fi}}
26071 \def\@hangfrom#1{\setbox\@tempboxa\hbox{\{#1\}}%
26072   \hangindent \if@RTL-\else\fi\wd\@tempboxa\noindent\box\@tempboxa}
26073 \def\narrower{%
26074   \advance\if@RTL\rightskip\else\leftskip\fi\parindent
26075   \advance\if@RTL\leftskip\else\rightskip\fi\parindent}
26076 \DeclareRobustCommand\underline[1]{%
26077   \relax
26078   \ifmmode\@@underline{#1}%
26079   \else

```



```

26080 \if@RTL $\@@underline{\hbox{\beginR#1\endR}}\m@th$\relax
26081 \else
26082 $\@@underline{\hbox{#1}}\m@th$\relax\fi\fi}
26083 \if@compatibility
26084 \let\underline=\underline
26085 \fi
26086 \def\@tabular{%
26087 \leavevmode \hbox \bgroup \if@RTLtab\beginR \fi
26088 $\let\@acol\@tabacol
26089 \let\@classz\@tabclassz
26090 \let\@classiv\@tabclassiv \let\\\@tabularcr\@tabarray}
26091 \def\endtabular{\cr\egroup\if@RTLtab\egroup\endR\egroup\fi
26092 \egroup $\if@RTLtab\endR\fi\egroup}
26093 \expandafter \let \csname endtabular*\endcsname = \endtabular
26094 \def\@array[#1]#2{%
26095 \if #1t\vtop \else \if#1b\vbox \else \vcenter \fi\fi
26096 \bgroup
26097 \setbox\@arstrutbox\hbox{%
26098 \vrule \@height\arraystretch\ht\strutbox
26099 \@depth\arraystretch \dp\strutbox
26100 \@width\z@}%
26101 \@mkpream{#2}%
26102 \edef\@preamble{%
26103 \ialign \noexpand\@halignto
26104 \bgroup \@arstrut \@preamble \tabskip\z@skip \cr}%
26105 \let\@startpbox\@startpbox \let\@endpbox\@endpbox
26106 \let\@tabularnewline\%
26107 \let\par\@empty
26108 \let\@sharp##%
26109 \set@typeset@protect
26110 \lineskip\z@skip\baselineskip\z@skip
26111 \ifhmode \@preamerr\z@ \@@par\fi
26112 \if@RTLtab\hbox\bgroup\beginR\@hboxRconstructtrue\if #1t\vtop \else \vbox \fi\bgroup\fi
26113 \@preamble}
26114 \def\array{\let\@acol\@arrayacol \let\@classz\@arrayclassz
26115 \let\@classiv\@arrayclassiv
26116 \let\\\@arraycr\let\@halignto\@empty\@RTLtabfalse\@tabarray}
26117 \def\@testpach#1{\@chclass \ifnum \@lastchclass=\tw@ 4 \else
26118 \ifnum \@lastchclass=3 5 \else
26119 \z@ \if #1c\@chnum \z@ \else
26120 \if \if@RTLtab#1r\else#1l\fi\@chnum \@ne \else
26121 \if \if@RTLtab#1l\else#1r\fi\@chnum \tw@ \else
26122 \@chclass \if #1\@ne \else
26123 \if #1\@tw@ \else
26124 \if #1p3 \else \z@ \@preamerr 0\fi
26125 \fi \fi \fi \fi \fi
26126 \fi}
26127 \def\bm@l{\if@RTL\hss\unhbox\@tempboxa\else\unhbox\@tempboxa\hss\fi}
26128 \def\bm@r{\if@RTL\unhbox\@tempboxa\hss\else\hss\unhbox\@tempboxa\fi}
26129 \def\bm@t{\unhbox\@tempboxa\hss}
26130 \def\bm@b{\hss\unhbox\@tempboxa}
26131 \def\@dottedtocline#1#2#3#4#5{%
26132 \ifnum #1>\c@tocdepth \else
26133 \vskip \z@ \@plus.2\p@

```



```

26134   {\if@RTL\righskip\else\leftskip\fi #2\relax \if@RTL\leftskip\else\righskip\fi \@tocrma
26135   \parindent #2\relax\@afterindenttrue
26136   \interlinepenalty\@M
26137   \leavevmode
26138   \@tempdima #3\relax
26139   \advance\if@RTL\righskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\righ
26140   {#4}\nobreak
26141   \leaders\hbox{${\m@th
26142     \mkern \dotsep mu\hbox{.}\mkern \dotsep
26143     mu$}\hfill
26144   \nobreak
26145   \hb@xt@\@pnumwidth{\hfil\normalfont \normalcolor #5}}%
26146   \par}%
26147 \fi}
26148
26149 \newcount\ bidi@column@check@number
26150
26151 \def\ bidi@column@status#1{\gdef\ bidi@current@column@status{#1}}
26152
26153 \def\ bidi@set@column@status#1#2{%
26154   \global\expandafter\let\csname #1\endcsname\ bidi@current@column@status}
26155
26156 \if@twocolumn
26157 \newcommand\ DetectColumn[3][1]{%
26158 \ifx\ bidi@firstcolumn@status@write\relax
26159   \PackageError{bidi}%
26160     {Option 'DetectColumn' not selected}%
26161     {\string\ DetectColumn\space
26162     requires the use of the 'DetectColumn'
26163     option on the package}%
26164 \fi
26165 \global\advance\ bidi@column@check@number\@ne
26166 \edef\ bidi@column@type{\expandafter\ifx
26167   \csname bidi@column-\the\ bidi@column@check@number\endcsname\relax
26168   0\else
26169   \csname bidi@column-\the\ bidi@column@check@number\endcsname
26170   \fi}%
26171 \ifcase \ bidi@column@type\relax
26172   \ifcase #1\or #2\or#3\fi % 0 not known use first column as default
26173 \or
26174   #2% % 1 First column
26175 \or
26176   #3% % 2 Second (Last column)
26177 \else
26178   \ERROR
26179 \fi
26180 \edef\next{\write\@auxout
26181   {\string\ bidi@set@column@status{\ bidi@column-\the\ bidi@column@check@number}%
26182     {\ bidi@column@type}}}%
26183 \next
26184 }
26185
26186 \AtEndDocument{\def\ bidi@set@column@status#1#2{%
26187   \ifnum #2=\ bidi@current@column@status\else

```



```

26188     \@tempswatruue
26189     \fi}%
26190 }
26191 \fi
26192
26193 \def\RTL@outputdblcol{%
26194   \if@firstcolumn
26195     \global\@firstcolumnfalse
26196     \global\setbox\@leftcolumn\copy\@outputbox
26197     \splitmaxdepth\maxdimen
26198     \vbadness\maxdimen
26199     \setbox\@outputbox\vbox{\unvbox\@outputbox\unskip}%
26200     \setbox\@outputbox\vsplit\@outputbox to\maxdimen
26201     \toks@\expandafter{\topmark}%
26202     \xdef\@firstcoltopmark{\the\toks@}%
26203     \toks@\expandafter{\splitfirstmark}%
26204     \xdef\@firstcolfirstmark{\the\toks@}%
26205     \ifx\@firstcolfirstmark\@empty
26206       \global\let\@setmarks\relax
26207     \else
26208       \gdef\@setmarks{%
26209         \let\firstmark\@firstcolfirstmark
26210         \let\topmark\@firstcoltopmark}%
26211     \fi
26212   \else
26213     \global\@firstcolumntrue
26214     \setbox\@outputbox\vbox{%
26215       \hb@xt@\textwidth{%
26216         \hskip \columnwidth
26217         \hfil
26218         {\normalcolor\vrule \@width\columnseprule}%
26219         \hfil
26220         \hb@xt@\columnwidth{%
26221           \bidi@firstcolumn@status@write%
26222           \box\@leftcolumn \hss}%
26223         \hskip -\textwidth
26224         \hb@xt@\columnwidth{%
26225           \bidi@lastcolumn@status@write%
26226           \box\@outputbox \hss}%
26227         \hskip \columnsep
26228         \hskip \columnwidth }}%
26229     \@combinedblfloats
26230     \@setmarks
26231     \@outputpage
26232     \begingroup
26233       \@dblfloatplacement
26234       \@startdblcolumn
26235       \@whilesw\if@fcolmade \fi{\@outputpage
26236         \@startdblcolumn}%
26237     \endgroup
26238   \fi}%
26239
26240 \def\LTR@outputdblcol{%
26241   \if@firstcolumn

```



```

26242 \global\@firstcolumnfalse
26243 \global\setbox\@leftcolumn\copy\@outputbox
26244 \splitmaxdepth\maxdimen
26245 \vbadness\maxdimen
26246 \setbox\@outputbox\vbox{\unvbox\@outputbox\unskip}%
26247 \setbox\@outputbox\vsplit\@outputbox to\maxdimen
26248 \toks@\expandafter{\topmark}%
26249 \xdef\@firstcoltopmark{\the\toks@}%
26250 \toks@\expandafter{\splitfirstmark}%
26251 \xdef\@firstcolfirstmark{\the\toks@}%
26252 \ifx\@firstcolfirstmark\@empty
26253 \global\let\@setmarks\relax
26254 \else
26255 \gdef\@setmarks{%
26256 \let\firstmark\@firstcolfirstmark
26257 \let\topmark\@firstcoltopmark}%
26258 \fi
26259 \else
26260 \global\@firstcolumntrue
26261 \setbox\@outputbox\vbox{%
26262 \hb@xt@\textwidth{%
26263 \hb@xt@\columnwidth{%
26264 \bidi@firstcolumn@status@write%
26265 \box\@leftcolumn \hss}%
26266 \hfil
26267 {\normalcolor\vrule \@width\columnseprule}%
26268 \hfil
26269 \hb@xt@\columnwidth{%
26270 \bidi@lastcolumn@status@write%
26271 \box\@outputbox \hss}}}%
26272 \@combinedblfloats
26273 \@setmarks
26274 \@outputpage
26275 \begingroup
26276 \@dblfloatplacement
26277 \@startdblcolumn
26278 \@whilesw\if@colmade \fi{\@outputpage
26279 \@startdblcolumn}%
26280 \endgroup
26281 \fi}%
26282
26283
26284 \renewcommand{\@outputdblcol}{\if@RTLmain\RTL@outputdblcol\else\LTR@outputdblcol\fi}
26285 \newcommand{\RTLdblcol}{\renewcommand{\@outputdblcol}{\RTL@outputdblcol}}
26286 \newcommand{\LTRdblcol}{\renewcommand{\@outputdblcol}{\LTR@outputdblcol}}
26287
26288 \bidi@patchcmd\@makecol{%
26289 \ifvoid\footins
26290 \setbox\@outputbox \box\@cclv
26291 \else
26292 \setbox\@outputbox \vbox {%
26293 \boxmaxdepth \@maxdepth
26294 \unvbox \@cclv
26295 \vskip \skip\footins

```



```

26296     \color@begingroup
26297     \normalcolor
26298     \footnoterule
26299     \unvbox \footins
26300     \color@endgroup
26301   }%
26302   \fi
26303 }{%
26304   \ifvoid\footins
26305     \ifvoid\@bidi@copyins@
26306       \setbox\@outputbox \box\@cclv
26307     \else
26308       \setbox\@outputbox \vbox {%
26309         \boxmaxdepth \@maxdepth
26310         \unvbox \@cclv
26311         \vskip \skip\@bidi@copyins@
26312         \color@begingroup
26313         \normalcolor
26314         \unvbox \@bidi@copyins@
26315         \color@endgroup
26316       }%
26317     \fi
26318   \else
26319     \setbox\@outputbox \vbox {%
26320       \boxmaxdepth \@maxdepth
26321       \unvbox \@cclv
26322       \vskip \skip\footins
26323       \color@begingroup
26324       \normalcolor
26325       \footnoterule
26326       \unvbox \footins
26327       \color@endgroup
26328     \ifvoid\@bidi@copyins@
26329     \else
26330       \vskip \skip\@bidi@copyins@
26331       \color@begingroup
26332       \normalcolor
26333       \unvbox \@bidi@copyins@
26334       \color@endgroup
26335     \fi
26336   }%
26337   \fi
26338 }{}{}
26339
26340 \def\LTRmarginpar{%
26341   \ifhmode
26342     \@bsphack
26343     \@floatpenalty -\@Mii
26344   \else
26345     \@floatpenalty-\@Miii
26346   \fi
26347   \ifinner
26348     \@parmoderr
26349     \@floatpenalty\z@

```



```

26350 \else
26351   \@next\@currbox\@freelist{}{}%
26352   \@next\@marbox\@freelist{\global\count\@marbox\m@ne}%
26353   {\@floatpenalty\z@
26354   \@fltovf\def\@currbox{\@tempboxa}\def\@marbox{\@tempboxa}}%
26355 \fi
26356 \@ifnextchar [\@LTRxmpar\@LTRympar}
26357 \long\def\@LTRxmpar[#1]#2{%
26358   \@LTRsavemarbox\@marbox{#1}%
26359   \@LTRsavemarbox\@currbox{#2}%
26360   \@xympar}
26361 \long\def\@LTRympar#1{%
26362   \@LTRsavemarbox\@marbox{#1}%
26363   \global\setbox\@currbox\copy\@marbox
26364   \@xympar}
26365 \long\def \@LTRsavemarbox #1#2{%
26366   \global\setbox #1%
26367   \color@vbox
26368   \vtop{%
26369     \hsize\marginparwidth
26370     \@parboxrestore
26371     \@LTRmarginparreset
26372     #2%
26373     \@minipagefalse
26374     \outer@nobreak
26375     }%
26376   \color@endbox
26377 }
26378 \def \@LTRmarginparreset {%
26379   \reset@font
26380   \normalsize
26381   \@minipagetrue
26382   \everypar{\@minipagefalse\everypar{}\beginL}%
26383 }
26384 \def\RTLmarginpar{%
26385   \ifhmode
26386     \@bsphack
26387     \@floatpenalty -\@Mii
26388   \else
26389     \@floatpenalty-\@Miii
26390   \fi
26391   \ifinner
26392     \@parmoderr
26393     \@floatpenalty\z@
26394   \else
26395     \@next\@currbox\@freelist{}{}%
26396     \@next\@marbox\@freelist{\global\count\@marbox\m@ne}%
26397     {\@floatpenalty\z@
26398     \@fltovf\def\@currbox{\@tempboxa}\def\@marbox{\@tempboxa}}%
26399   \fi
26400   \@ifnextchar [\@RTLxmpar\@RTLympar}
26401 \long\def\@RTLxmpar[#1]#2{%
26402   \@RTLSavemarbox\@marbox{#1}%
26403   \@RTLSavemarbox\@currbox{#2}%

```



```

26404 \@xympar}
26405 \long\def\@RTLympar#1{%
26406   \@RTLSavemarbox\@marbox{#1}%
26407   \global\setbox\@currbox\copy\@marbox
26408   \@xympar}
26409 \long\def \@RTLSavemarbox #1#2{%
26410   \global\setbox #1%
26411     \color@vbox
26412     \vtop{%
26413       \hsize\marginparwidth
26414       \@parboxrestore
26415       \@RTLmarginparreset
26416       #2%
26417       \@minipagefalse
26418       \outer@nobreak
26419     }%
26420   \color@endbox
26421 }
26422 \def \@RTLmarginparreset {%
26423   \reset@font
26424   \normalsize
26425   \@minipagetrue
26426   \everypar{\@minipagefalse\everypar{}}\beginR}%
26427 }
26428 \def\@addmarginpar{\@next\@marbox\@currlist{\@cons\@freelist\@marbox
26429   \@cons\@freelist\@currbox}\@latexbug\@tempcnta\@ne
26430   \if@twocolumn
26431     \if@firstcolumn \@tempcnta\m@ne \fi
26432   \else
26433     \if@mparswitch
26434       \ifodd\c@page \else\@tempcnta\m@ne \fi
26435     \fi
26436     \if@reversemargin \@tempcnta -\@tempcnta \fi
26437   \fi
26438   \ifnum\@tempcnta <\z@ \global\setbox\@marbox\box\@currbox \fi
26439   \@tempdima\@mparbottom
26440   \advance\@tempdima -\@pageht
26441   \advance\@tempdima\ht\@marbox
26442   \ifdim\@tempdima >\z@
26443     \@latex@warning@no@line {Marginpar on page \thepage\space moved}%
26444   \else
26445     \@tempdima\z@
26446   \fi
26447   \global\@mparbottom\@pageht
26448   \global\advance\@mparbottom\@tempdima
26449   \global\advance\@mparbottom\dp\@marbox
26450   \global\advance\@mparbottom\marginparpush
26451   \advance\@tempdima -\ht\@marbox
26452   \global\setbox \@marbox
26453     \vbox {\vskip \@tempdima
26454       \box \@marbox}%
26455   \global \ht\@marbox \z@
26456   \global \dp\@marbox \z@
26457   \kern -\@pagedp

```





```

26458 \nointerlineskip
26459 \hb@xt@\columnwidth
26460 {\if@RTL\if@LTRmarginpar\beginL\else\beginR\fi\else\if@RTLmarginpar\beginR\else\beginL
26461 \hskip\columnwidth \hskip\marginparsep
26462 \else
26463 \hskip -\marginparsep \hskip -\marginparwidth
26464 \fi
26465 \box\@marbox \hss\if@RTL\if@LTRmarginpar\endL\else\endR\fi\else\if@RTLmarginpar\endR
26466 \nointerlineskip
26467 \hbox{\vrule \height\z@ \width\z@ \depth\@pagedp}}
26468 \long\def\@ympar#1{%
26469 \@savemarbox\@marbox{\if@RTL\if@LTRmarginpar\@RTLfalse\else\@RTLtrue\fi\else\if@RTLmarginpar
26470 \global\setbox\@currbox\copy\@marbox
26471 \@xympar}
26472 \def\setRTLmarginpar{\@RTLmarginpartrue\@LTRmarginparfalse}
26473 \def\setLTRmarginpar{\@LTRmarginpartrue\@RTLmarginparfalse}
26474 \def\setdefaultmarginpar{\@RTLmarginparfalse\@LTRmarginparfalse}
26475 \def\@stopline{\unskip\@stopfield\if@rjfield \global\@rjfieldfalse
26476 \@tempdima\@totalleftmargin \advance\@tempdima\linewidth
26477 \hbox to\@tempdima{\if@RTL\beginR\fi\@itemfudge\hskip\dimen\@curtabmar
26478 \box\@curline\hfil\box\@curfield\if@RTL\endR\fi}\else\@addfield
26479 \hbox to\linewidth{\if@RTL\beginR\fi\@itemfudge
26480 \hskip\dimen\@curtabmar\box\@curline\hfil\if@RTL\endR\fi}}%
26481 \fi}
26482
26483 \newcommand*\@bidi@font@outputpage{}
26484
26485 \def\@outputpage{%
26486 \begingroup % the \endgroup is put in by \aftergroup
26487 \let \protect \noexpand
26488 \@resetactivechars
26489 \global\let\@if@newlist\if@newlist
26490 \global\@newlistfalse
26491 \@parboxrestore
26492 \global\let\bidi@BeforeOutputPageShipOut\@firstofone
26493 \bidi@beforeoutputpageshipouthook
26494 \shipout \vbox{%
26495 \set@typeset@protect
26496 \aftergroup \endgroup
26497 \aftergroup \set@typeset@protect
26498 % correct? or just restore by ending
26499 % the group?
26500 \if@specialpage
26501 \global\@specialpagefalse\@nameuse{ps@\@specialstyle}%
26502 \fi
26503 \if@twoside
26504 \ifodd\count\z@ \let\@thehead\@oddhead \let\@thefoot\@oddfoot
26505 \if@RTLmain
26506 \let\@themargin\evensidemargin
26507 \else
26508 \let\@themargin\oddsidemargin
26509 \fi
26510 \else \let\@thehead\@evenhead \let\@thefoot\@evenfoot
26511 \if@RTLmain

```



```

26512         \let\themargin\oddsidemargin
26513         \else
26514         \let\themargin\evensidemargin
26515         \fi
26516     \fi
26517     \ifx\thehead\@empty \let\thehead\hfil \fi
26518     \ifx\theft\@empty \let\theft\hfil \fi
26519     \else %% not @twoside
26520     \ifx\oddhead\@empty \let\thehead\hfil \fi
26521     \ifx\oddft\@empty \let\theft\hfil \fi
26522 \fi
26523 \reset@font
26524 \normalsize
26525 \bidi@font@@outputpage
26526 \normalsfcodes
26527 \let\label\@gobble
26528 \let\index\@gobble
26529 \let\glossary\@gobble
26530 \baselineskip\z@skip \lineskip\z@skip \lineskiplimit\z@
26531 \@begindvi
26532 \vskip \topmargin
26533 \moveright\themargin \vbox {%
26534     \global\let\bidi@BeforeHeader\@firstofone
26535     \bidi@beforeheaderhook
26536     \setbox\@tempboxa \vbox to\headheight{%
26537         \vfil
26538         \color@hbox
26539         \normalcolor
26540         \hb@xt@\textwidth{\if@RTLmain\@RTLtrue\beginR\else\@RTLfalse\beginL\fi\thehead\if@
26541         \color@endbox
26542     }%
26543     \dp\@tempboxa \z@
26544     \box\@tempboxa
26545     \vskip \headsep
26546     \global\let\bidi@BeforeOutputBoxOutputPage\@firstofone
26547     \bidi@beforeoutputboxoutputpagehook
26548     \box\@outputbox
26549     \global\let\bidi@AfterOutputBoxOutputPage\@firstofone
26550     \bidi@afteroutputboxoutputpagehook
26551     \global\let\bidi@BeforeFooter\@firstofone
26552     \bidi@beforefooterhook
26553     \baselineskip \footskip
26554     \color@hbox
26555     \normalcolor
26556     \hb@xt@\textwidth{\if@RTLmain\@RTLtrue\beginR\else\@RTLfalse\beginL\fi\theft\if@
26557     \color@endbox
26558     \global\let\bidi@AfterFooter\@firstofone
26559     \bidi@afterfooterhook
26560     }%
26561     }%
26562 \global\let\bidi@AfterOutputPageShipOut\@firstofone
26563 \bidi@afteroutputpageshipouthook
26564 \global\let\if@newlist\@if@newlist
26565 \global \colht \textheight

```



```

26566 \stepcounter{page}%
26567 \let\firstmark\botmark
26568 \global\let\bidiatEndOutputPage\@firstofone
26569 \bidiatendoutputpagehook
26570 }
26571 \long\def\@makecaption#1#2{%
26572 \vskip\abovecaptionskip
26573 \sbox\@tempboxa{#1: #2}%
26574 \ifdim \wd\@tempboxa >\hsize
26575 \if@RTL\beginR\fi#1: #2\if@RTL\endR\fi\par
26576 \else
26577 \global \@minipagefalse
26578 \hb@xt@\hsize{\if@RTL\beginR\fi\hfil\box\@tempboxa\hfil\if@RTL\endR\fi}%
26579 \fi
26580 \vskip\belowcaptionskip}
26581 \let\bidisaved@eqno=\eqno
26582 \let\bidisaved@leqno=\leqno
26583 \def\eqno{\ifnum\predisplaydirection<z@ \bidisaved@leqno \else \bidisaved@eqno \fi}
26584 \def\leqno{\ifnum\predisplaydirection<z@ \bidisaved@eqno \else \bidisaved@leqno \fi}
26585 \ApplyPatchIfPackageLoadedF{amsmath}{
26586 \def\@eqnnum{\normalfont \normalcolor \if@RTL\beginR\fi(\theequation)\if@RTL\endR\fi}}
26587 }
26588 \input{footnote-xetex-bidi.def}
26589 \if@twocolumn
26590 \let\autofooterule\relax
26591 \let\leftfootnoterule\relax
26592 \let\rightfootnoterule\relax
26593 \textwidthfootnoterule
26594 \fi
26595 \if@bidi@cundefined{@idxitem}{}{%
26596 \renewcommand\@idxitem{\par\hangindent \if@RTL-\fi40\p@}%
26597 }
26598
26599 \ApplyPatchToClassesIfPackageLoadedF{%
26600 book, %
26601 report %
26602 }{flowfram}
26603
26604 \ApplyPatchToPackageIfPackageLoadedF{float}{floatrow}
26605
26606 \ApplyPatchToFilesIfPackageLoadedF{amsmath}{%
26607 fleqn, %
26608 leqno%
26609 }[clo]
26610
26611 \ApplyPatchToClasses{%
26612 amsart, %
26613 amsbook, %
26614 article, %
26615 artikel1, %
26616 artikel2, %
26617 artikel3, %
26618 beamer, %
26619 boek, %

```



```

26620 boek3, %
26621 bookest, %
26622 combine, %
26623 extbook, %
26624 extletter, %
26625 extarticle, %
26626 extreport, %
26627 imspoc, %
26628 letter, %
26629 memoir, %
26630 rapport1, %
26631 rapport3, %
26632 refrep, %
26633 scrartcl, %
26634 scrbook, %
26635 screprt %
26636 }
26637
26638 \ApplyPatchToPackages{
26639 adjmulticol, %
26640 algorithm2e, %
26641 amsmath, %
26642 amstext, %
26643 amsthm, %
26644 arydshln, %
26645 array, %
26646 beamerbaseauxtemplates, %
26647 beamerbaseboxes, %
26648 beamerbasecolor, %
26649 beamerbasecompatibility, %
26650 beamerbaseframecomponents, %
26651 beamerbaseframesize, %
26652 beamerbaselocalstructure, %
26653 beamerbasemisc, %
26654 beamerbasenavigation, %
26655 beamerbaseoverlay, %
26656 beamerinnerthemecircles, %
26657 beamerinnerthemedefault, %
26658 beamerinnerthemefocus, %
26659 beamerinnerthemeinmargin, %
26660 beamerinnerthememetropolis, %
26661 beamerinnerthemerectangles, %
26662 beamerinnerthemerounded, %
26663 beamerouterthemedefault, %
26664 beamerouterthemefocus, %
26665 beamerouterthemeinfolines, %
26666 beamerouterthememetropolis, %
26667 beamerouterthememiniframes, %
26668 beamerouterthemesidebar, %
26669 beamerouterthemesplit, %
26670 beamerouterthemeshadow, %
26671 beamerouterthesmoothbars, %
26672 beamerouterthesmoothtree, %
26673 beamerouterthemetree, %

```



26674 beamerthemeHannover, %  
 26675 beamerthemeSingapore, %  
 26676 breqn, %  
 26677 cals, %  
 26678 caption, %  
 26679 caption3, %  
 26680 color, %  
 26681 colortbl, %  
 26682 crop, %  
 26683 cuted, %  
 26684 cutwin, %  
 26685 dblfnote, %  
 26686 diagbox, %  
 26687 draftwatermark, %  
 26688 eso-pic, %  
 26689 empheq, %  
 26690 fancybox, %  
 26691 fancyhdr, %  
 26692 fix2col, %  
 26693 float, %  
 26694 floatrow, %  
 26695 flowfram, %  
 26696 footnotebackref, %  
 26697 framed, %  
 26698 ftnright, %  
 26699 geometry, %  
 26700 graphicx, %  
 26701 hvfloat, %  
 26702 hyperref, %  
 26703 letrine, %  
 26704 lineno, %  
 26705 listings, %  
 26706 longtable, %  
 26707 lscape, %  
 26708 mathtools, %  
 26709 mdframed, %  
 26710 media9, %  
 26711 midfloat, %  
 26712 minitoc, %  
 26713 multicol, %  
 26714 multienum, %  
 26715 natbib, %  
 26716 newfloat, %  
 26717 nicematrix, %  
 26718 ntheorem, %  
 26719 ntheorem-hyper, %  
 26720 overpic, %  
 26721 pdfbase, %  
 26722 pdfscape, %  
 26723 pdfpages, %  
 26724 pgfsys, %  
 26725 picinpar, %  
 26726 quotchap, %  
 26727 ragged2e, %



```

26728 rotating, %
26729 sidecap, %
26730 soul, %
26731 stabular, %
26732 subfigure, %
26733 tabs, %
26734 tabularx, %
26735 tabulary, %
26736 tcolorbox, %
26737 titlesec, %
26738 titletoc, %
26739 tocbasic, %
26740 tocbibind, %
26741 tocloft, %
26742 tocstyle, %
26743 todonotes, %
26744 wrapfig, %
26745 xcolor, %
26746 xltextra %
26747 }
26748
26749 \ApplyPatchToFiles{%
26750 pgfcorescopes.code, %
26751 pstricks %
26752 }[tex]
26753
26754 \ApplyPatchToFile{tc-xetex}

```

## 163 File `xltextra-xetex-bidi.def`

```

26755 \ProvidesFile{xltextra-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for xltextra package f
26756 \let\@XeTeX\XeTeX
26757 \def\XeTeX{\@ensure@LTR{\@XeTeX}}
26758 \let\@XeLaTeX\XeLaTeX
26759 \def\XeLaTeX{\@ensure@LTR{\@XeLaTeX}}

```

## 164 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.

<b>Symbols</b>		
<code>\#</code> .. 5984, 6030, 6134, 6142	1272, 2674, 4377,	<code>\=</code> ... 16509, 18355, 20313
<code>\%</code> ..... 16389	9294, 9482, 9794,	<code>\&gt;</code> ..... 23716
<code>\'</code> ... 16509, 18355, 20313	11355, 11629,	<code>\@</code> ... 6054, 7109, 7112,
<code>\(</code> ..... 18458	15530, 17902,	7115, 7138, 7143,
<code>\)</code> ..... 18459	19668, 20475,	7148, 7159, 7162,
<code>\,</code> ..... 8107, 16772,	20869, 21066,	7165, 7175, 7178, 7181
20907, 20950,	21269, 21807,	<code>\@@</code> ..... 23894, 23896
25500, 25511, 25917	22568, 23333, 24082	<code>\@H@footnotetext</code>
<code>\-</code> 4378, 16508, 18354, 20312	<code>\/</code> ..... 4731	..... 11675, 11690
<code>\.</code> 93, 306, 627, 759, 1022,	<code>\:</code> ..... 18500, 18559	<code>\@H@mpfootnotetext</code>
	<code>\&lt;</code> ..... 23715	..... 11678, 11696



<code>\@HLTR@LTRfootnotetext</code>	21483, 22183,	<code>\@LTRbibitemfalse</code>	
..... 11676, 11692	22220, 22223,	..... 25931, 25933	
<code>\@HLTR@mpLTRfootnotetext</code>	22956, 22993, 22996	<code>\@LTRbibitemstrue</code>	25932
..... 11679, 11698	<code>\@math</code> .....	<code>\@LTRbidituftesidenote@sidenote</code>	
<code>\@HRTL@RTLfootnotetext</code>	9829	... 8223, 8282, 8286	
..... 11677, 11694	<code>\@mix</code> .....	<code>\@LTRbidituftesidenotemarginparreset</code>	
<code>\@HRTL@mpRTLfootnotetext</code>	25694, 25737	..... 7858, 7865	
..... 11680, 11700	<code>\@mod</code> ..	<code>\@LTRbidituftesidenotesavemabox</code>	
<code>\@LTR</code> .....	25695, 25699,	..... 7845,	
20143,	25700, 25703,	7846, 7849, 7852	
20145, 25867, 25869	25704, 25705,	<code>\@LTRbidituftesidenotexmpar</code>	
<code>\@LaTeX</code> ...	25708, 25738,	..... 7843, 7844	
25872, 25873	25742, 25743,	<code>\@LTRbidituftesidenoteympar</code>	
<code>\@LaTeXe</code> ..	25746, 25747,	..... 7843, 7848	
25874, 25875	25748, 25751, 25770	<code>\@LTRfootgroupv@l</code> .	
<code>\@RTL</code> .....	<code>\@par</code> .....	.. 11750, 11781,	
20142,	18353,	11953, 12143,	
20145, 25866, 25869	20311, 20902,	12168, 12198,	
<code>\@Radio</code> ...	20945, 21455,	12228, 12256,	
17841, 17849	21466, 22194,	12270, 12442,	
<code>\@TeX</code> .....	22206, 22967,	12467, 12496,	
20146,	22979, 24006,	12525, 12551,	
20147, 25870, 25871	24008, 25998, 26111	12564, 12729,	
<code>\@XeLaTeX</code> .	<code>\@protect</code> .....	12754, 12784,	
26758, 26759	5915	12814, 12842,	
<code>\@XeTeX</code> ...	<code>\@scalebox</code> 20221, 20238	12856, 13028,	
26756, 26757	<code>\@startpbox</code> ..	13053, 13083,	
<code>\@array</code> .....	18200,	13113, 13141,	
433	23791, 23829, 26105	13155, 13327,	
<code>\@author</code> 8723, 8726, 8729	<code>\@title</code> .	13352, 13382,	
<code>\@bidi@pop</code> ...	8722, 8725, 8728	13412, 13440,	
6629, 6630, 6633, 6635	<code>\@tmp</code> .....	13454, 13626,	
<code>\@bidi@popinto</code> ...	25699,	13651, 13681,	
... 6626, 6629, 6630	25700, 25705,	13711, 13739,	
<code>\@clr</code> ..	25706, 25708,	13753, 13925,	
25695, 25700,	25709, 25742,	13950, 13980,	
25703, 25705,	25743, 25748,	14010, 14038,	
25706, 25708,	25749, 25751,	14052, 14224,	
25738, 25743,	25752, 25770, 25771	14249, 14279,	
25746, 25748,	<code>\@underline</code> .....	14309, 14337,	
25749, 25751, 25770	. 26078, 26080, 26082	14351, 14523,	
<code>\@cls</code> .....	<code>\@DEBUGfalse</code> .....	14548, 14578,	
25690, 25733	5011	14608, 14636,	
<code>\@date</code> ..	<code>\@EightColLTRfootnotetext</code>	14650, 14864,	
8724, 8727, 8730	..... 13941, 14023	14917, 14967,	
<code>\@description</code> ....	<code>\@EightColRTLfootnotetext</code>	15018, 15075,	
2640	..... 13942, 14050	15106, 15137, 15153	
<code>\@end</code> .....	<code>\@EightColfootnotetext</code>	<code>\@LTRfootnotetext</code> 64,	
6280, 6281	..... 13940, 13977	81, 155, 156, 157,	
<code>\@endpbox</code> ...	<code>\@False</code> .....	276, 294, 2386,	
18201,	9817, 9819	2390, 2445, 4867,	
23791, 23829, 26105	<code>\@FiveColLTRfootnotetext</code>	4989, 8152, 8235,	
<code>\@if@newlist</code> .	..... 13044, 13126	8242, 8958, 8969,	
15851,	<code>\@FiveColRTLfootnotetext</code>	9175, 9189, 10805,	
15883, 26489, 26564	..... 13045, 13153		
<code>\@italiccorr</code> .....	<code>\@FiveColfootnotetext</code>		
... 346, 9838, 18335	..... 13043, 13080		
<code>\@line</code> .....	<code>\@FourColLTRfootnotetext</code>		
12121, 21295,	..... 12745, 12827		
21304, 21342,	<code>\@FourColRTLfootnotetext</code>		
21353, 26059,	..... 12746, 12854		
26060, 26062,	<code>\@FourColfootnotetext</code>		
26063, 26065, 26066	..... 12744, 12781		
<code>\@makecaption</code> ....			
.. 21839, 21903,			
22007, 22600,			
22664, 22769,			
23365, 23429, 23534			
<code>\@makefnmark</code> .....			
.. 21444, 21480,			



10806,	11676,	17915,	17939,	\@RTLbidituftesidenote@sidenote
11691,	11692,	19399,	19411,	... 8252, 8283, 8287
11796,	11873,	19423,	20251,	\@RTLbidituftesidenotemarginparreset
11881,	12134,	20373,	20374,	..... 7902, 7909
12159,	12433,	20398,	20508,	\@RTLbidituftesidenotesavemabox
12458,	12720,	20647,	20770,	..... 7889,
12745,	13019,	20823,	20824,	7890, 7893, 7896
13044,	13318,	20885,	20886,	\@RTLbidituftesidenotexmpar
13343,	13617,	21240,	21248,	..... 7887, 7888
13642,	13916,	23885,	23992,	\@RTLbidituftesidenoteympar
13941,	14215,	24033,	24172,	..... 7887, 7892
14240,	14514,	24203,	24226,	\@RTLfalse ... 36, 66,
14539,	14851,	24243,	24260,	87, 249, 278, 300,
14904,	14960,	24277,	24294,	613, 748, 1011,
15011,	16105,	24311,	24329,	1261, 1972, 2287,
16111,	16155,	24348,	24368,	2321, 2340, 2372,
16181,	16242,	24403,	24786,	2657, 4082, 4089,
16267,	16273,	25316, 25430, 26136		4096, 5237, 9283,
17275,	17303,	\@MM ... 41, 55, 71, 254,		9471, 9780, 9799,
17382,	17401,	268, 283, 10803,		9811, 9824, 11344,
17595,	17599,	10824, 10871,		11615, 11736,
17619,	17620,	10878, 10923,		11752, 11798,
18258,	18411,	10930, 11964,		11813, 11826,
19538,	19540,	16128, 16145, 16161		11838, 12185,
19541,	21406,	\@Mi ..... 9829, 18272		12215, 12231,
21412,	21847,	\@Mii ..... 4942,		12246, 12313,
22145,	22151,	7786, 7830, 7874,		12342, 12355,
22608,	22918,	10493, 10505,		12369, 12484,
22924,	23373,	10518, 26343, 26387		12513, 12528,
23860, 23877, 23969		\@Miii 4944, 7788, 7832,		12542, 12606,
\@LTRmarginparfalse		7876, 26345, 26389		12634, 12646,
..... 26472, 26474		\@NineCollTRfootnotetext		12659, 12771,
\@LTRmarginparreset		..... 14240, 14322		12801, 12817,
..... 26371, 26378		\@NineColRTLfootnotetext		12832, 12899,
\@LTRmarginpartrue 26473		..... 14241, 14349		12928, 12941,
\@LTRsavemabox 26358,		\@NineColfootnotetext		12955, 13070,
26359, 26362, 26365		..... 14239, 14276		13100, 13116,
\@LTRxmpar . 26356, 26357		\@ParaLTRfootnotetext		13131, 13198,
\@LTRympar . 26356, 26361		. 14904, 15011, 15121		13227, 13240,
\@M 6, 92, 105, 211, 235,		\@ParaRTLfootnotetext		13254, 13369,
305, 596, 663, 664,		..... 14905, 15151		13399, 13415,
688, 792, 915, 970,		\@Parafootnotetext		13430, 13497,
971, 1044, 1164,		. 14903, 15009, 15072		13526, 13539,
1165, 1171, 1294,		\@RTL@footnotefalse		13553, 13668,
4794, 4799, 8454,		... 4108, 15949,		13698, 13714,
9215, 9216, 9222,		16115, 20126,		13729, 13796,
9336, 9392, 9393,		20131, 25834, 25855		13825, 13838,
9399, 9513, 9563,		\@RTL@footnotetrue		13852, 13967,
9758, 9766, 9833,		... 4107, 15949,		13997, 14013,
11322, 11335,		16114, 20128,		14028, 14095,
11592, 11601,		20130, 25844, 25854		14124, 14137,
12118, 12121,		\@RTLibibitemfalse		14151, 14266,
15496, 15504,		..... 25932, 25933		14296, 14312,
15824, 17901,		\@RTLibibitemstrue 25931		14327, 14394,





14423,	14436,	18259,	18412,	13158,	13198,
14450,	14565,	19543,	19545,	13227,	13267,
14595,	14611,	19546,	21407,	13281,	13369,
14626,	14693,	21416,	21848,	13399,	13442,
14722,	14735,	22146,	22155,	13457,	13497,
14749,	15308,	22609,	22919,	13526,	13566,
15333,	15519,	22928,	23374,	13580,	13668,
16123,	16156,	23861, 23878, 23970		13698,	13741,
16202,	16217,	\@RTLmainfalse . 4272,		13756,	13796,
17896,	18109,	4276, 4498, 4502		13825,	13865,
18132,	18136,	\@RTLmaintrue . 4275, 4501		13879,	13967,
18143,	18152,	\@RTLmarginparfalse		13997,	14040,
18344,	19152,	. . . . . 26473, 26474		14055,	14095,
19659,	19836,	\@RTLmarginparreset		14124,	14164,
19884,	20088,	. . . . . 26415, 26422		14178,	14266,
20122,	20126,	\@RTLmarginpartrue 26472		14296,	14339,
20131,	20180,	\@RTLSavemarbox 26402,		14354,	14394,
20464,	20858,	26403, 26406, 26409		14423,	14463,
21052,	21255,	\@RTLtabfalse . . . . .		14477,	14565,
21785,	22546,	. 446, 4102, 4253,		14595,	14638,
23311,	24068,	19722, 25828,		14653,	14693,
25792,	25827,	25834, 25855,		14722,	14762,
25834,	25855,	26013, 26031, 26116		14776,	15297,
26013,	26031,	\@RTLtabtrue . . . . .		15324,	15519,
26469, 26540, 26556		. . . . . 4101, 4252,		16123,	16140,
\@RTLfootnotetext 48,		25819, 25844,		16187,	16217,
80, 159, 160, 161,		25854, 25901,		17896,	18109,
261, 293, 2385,		25908, 26022, 26040		18132,	18143,
2389, 2419, 4868,		\@RTLtrue . 36, 50, 87,		18152,	18347,
4990, 8170, 8264,		249, 263, 300, 613,		19152,	19659,
8271, 8959, 8970,		748, 1011, 1261,		20089,	20114,
9176, 9190, 10826,		2287, 2304, 2340,		20128,	20130,
10827,	11677,	2356, 2657, 4081,		20464,	20858,
11693,	11694,	4088, 4095, 5237,		21052,	21255,
11765,	11874,	9283, 9471, 9780,		21785,	22546,
11882,	12135,	9838, 9840, 11344,		23311,	24068,
12160,	12434,	11615, 11736,		25793,	25818,
12459,	12721,	11752, 11767,		25844,	25854,
12746,	13020,	11783, 11813,		26022,	26040,
13045,	13319,	11826, 11850,		26469, 26540, 26556	
13344,	13618,	11863, 12185,		\@RTLxmpar . 26400, 26401	
13643,	13917,	12215, 12258,		\@RTLympar . 26400, 26405	
13942,	14216,	12273, 12313,		\@Reset . . . . . 17874, 17883	
14241,	14515,	12342, 12382,		\@SepMark . 19, 20, 21,	
14540,	14852,	12396, 12484,		22, 168, 198, 224,	
14905,	14961,	12513, 12553,		225, 226, 227, 344,	
15012,	16096,	12567, 12606,		360, 584, 585, 586,	
16102,	16139,	12634, 12671,		587, 741, 742, 743,	
16180,	16243,	12684, 12771,		744, 995, 996, 997,	
16282,	16288,	12801, 12844,		998, 1254, 1255,	
17274,	17292,	12859, 12899,		1256, 1257, 9309,	
17367,	17402,	12928, 12968,		9310, 9311, 9312,	
17594,	17598,	12982, 13070,		9313, 9315, 9317,	
17616,	17617,	13100, 13143,		9319, 9486, 9487,	



9488, 9489, 9490,	22516, 22519,	\@addmarginpar . . .	26428
9492, 9494, 9496,	22523, 22525,	\@address 5129, 10660,	
9737, 9739, 9741,	23271, 23273,	10661, 10758, 10760	
9743, 9744, 9745,	23276, 23278,	\@addresscolour 5098,	
9746, 9747, 11455,	23280, 23282,	5115, 10659, 10757	
11456, 11457,	23285, 23288,	\@addtopreamble . . .	
11458, 11571,	23291, 24146,	. . . 1449, 1512, 9911	
11573, 11575,	24390, 25928, 25930	\@addtoreset . . . . .	
11577, 11578,	\@SevenColLTRfootnotetext	. . . . 342, 15794,	
11579, 11580,	. . . . 13642, 13724	19700, 19706, 19708	
11581, 15622,	\@SevenColRTLfootnotetext	\@addviper . . . . .	10256
15623, 15624,	. . . . 13643, 13751	\@afterheading . . . .	
15625, 15626,	\@SevenColfootnotetext	. 606, 4777, 4787,	
15628, 15630,	. . . . 13641, 13678	11332, 11340, 18367	
15632, 15790,	\@SixColLTRfootnotetext	\@afterindentfalse	
15797, 15919,	. . . . 13343, 13425	. . 4777, 4787, 18366	
15921, 15923,	\@SixColRTLfootnotetext	\@afterindenttrue .	
15925, 15926,	. . . . 13344, 13452	. . 688, 915, 1171,	
15927, 15928,	\@SixColfootnotetext	8453, 9222, 9399,	
15929, 15932,	. . . . 13342, 13379	19398, 19410,	
15934, 15936,	\@Submit . . . 17857, 17866	19422, 20398,	
15938, 15939,	\@TenColLTRfootnotetext	20770, 24171,	
15940, 15941,	. . . . 14539, 14621	24202, 24225,	
15942, 17952,	\@TenColRTLfootnotetext	24242, 24259,	
17953, 17954,	. . . . 14540, 14648	24276, 24293,	
17955, 18169,	\@TenColfootnotetext	24310, 24328,	
19039, 19041,	. . . . 14538, 14575	24347, 24367,	
19043, 19045,	\@TextField 17825, 17833	24402, 24785,	
19047, 19048,	\@ThreeColLTRfootnotetext	25309, 25429, 26135	
19050, 19051,	. . . . 12458, 12537	\@algocf@finish . . .	179
19052, 19702,	\@ThreeColRTLfootnotetext	\@algocf@start . . . .	171
19710, 19712,	. . . . 12459, 12562	\@ampacol . . . . 1476, 1484	
20479, 20480,	\@ThreeColfootnotetext	\@arabic 168, 584, 585,	
20481, 20482,	. . . . 12457, 12493	586, 587, 615, 622,	
20483, 20485,	\@True . . . 9812, 9818, 9850	741, 742, 743, 744,	
20487, 20489,	\@TwoColLTRfootnotetext	750, 757, 995, 996,	
20844, 20845,	. . . . 12159, 12241	997, 998, 1013,	
20846, 20847,	\@TwoColRTLfootnotetext	1020, 1254, 1255,	
20848, 20850,	. . . . 12160, 12268	1256, 1257, 1263,	
20852, 20854,	\@TwoColfootnotetext	1270, 2659, 2668,	
21039, 21041,	. . . . 12158, 12195	5249, 9285, 9292,	
21043, 21044,	\@Undottedtocline 19406	9309, 9310, 9311,	
21045, 21046,	\@Undottedtoclinep 19418	9312, 9313, 9315,	
21047, 21048,	\@acci 16509, 18355, 20313	9317, 9319, 9473,	
21221, 21223,	\@accii 16509, 18355, 20313	9480, 9486, 9487,	
21225, 21227,	\@acciii . . . . .	9488, 9489, 9490,	
21228, 21229,	. 16509, 18355, 20313	9492, 9494, 9496,	
21230, 21231,	\@acol 1478, 1486, 4876,	9737, 9739, 9741,	
21759, 21760,	18197, 23775,	9742, 9743, 9744,	
21762, 21764,	25910, 26088, 26114	9745, 9746, 9747,	
21766, 22498,	\@acolampacol . . 1476,	9782, 9789, 11346,	
22501, 22503,	1478, 1484, 1486	11353, 11455,	
22507, 22509,	\@addamp . . . . . 1477, 1485	11456, 11457,	
22511, 22513,	\@addfield . . . . . 26478	11458, 11571,	



11573,	11575,	23280,	23282,	21174,	21588,
11576,	11577,	23285,	23288,	21732,	22328,
11578,	11579,	23292,	23314,	22472,	23101, 23245
11580,	11581,	23330, 24070, 24077		\@auxout ..	4145, 4149,
11617,	11624,	\@argdef .....	5875	5292, 5651, 5679,	
15521,	15528,	\@array 400, 433, 1411,		5705, 5733, 5759,	
15622,	15623,	1412, 23812, 26094		5762, 5796, 5799,	
15624,	15625,	\@arrayacol .....	26114	9122, 12022, 26180	
15626,	15628,	\@arrayclassiv ...	26115	\@badmath ..	15755, 15769
15630,	15632,	\@arrayclassz .....		\@begin@tempboxa ..	
15919,	15921,	. 1476, 23816, 26114		.....	16785,
15923,	15924,	\@arraycr 427, 18206, 26116		16881, 16888, 25998	
15925,	15926,	\@arrayleft .....	420	\@begin@dv	15822, 26531
15927,	15928,	\@arrayparboxrestore		\@begin@parpenalty .	
15929,	15932,	. 2003, 18261, 20308		.....	4790,
15934,	15936,	\@arrayright .....	441	4799, 15758, 15772	
15937,	15938,	\@arrayrule 1431, 1432,		\@bib@break .....	
15939,	15940,	1433, 1469, 1470, 1471		. 21780, 22541, 23306	
15941,	15942,	\@arstdepth .....		\@biblabel .....	89,
18169,	18171,	. 23809, 23814, 23832		302, 615, 616,	
19039,	19041,	\@arstheight 23814, 23832		750, 751, 1013,	
19043,	19045,	\@arstrut .....	414,	1014, 1263, 1264,	
19047,	19050,	18220, 23790, 26104		2659, 2660, 9285,	
19051,	19052,	\@arstrutbox ...	403,	9286, 9473, 9474,	
20466,	20473,	18208, 18262,		9782, 9783, 11346,	
20479,	20480,	23783, 23824,		11347, 11617,	
20481,	20482,	23828, 23832, 26097		11618, 15521,	
20483,	20485,	\@author .....	466,	15522, 17898,	
20487,	20489,	480, 516, 537, 803,		19661, 20466,	
20844,	20845,	805, 823, 868,		20467, 20860,	
20846,	20847,	887, 1055, 1057,		20861, 21054,	
20848,	20850,	1075, 1120, 1139,		21055, 21257,	
20852,	20854,	1305, 1307, 1325,		21258, 21788,	
20860,	20867,	1370, 1390, 1401,		21790, 22549,	
21039,	21041,	4630, 8655, 8657,		22551, 23314,	
21043,	21044,	8726, 9347, 9349,		23316, 24070, 24071	
21045,	21046,	9367, 9524, 9526,		\@bibsetup .....	19661
21047,	21048,	9544, 9619, 9633,		\@bibtitlestyle ...	
21054,	21061,	9669, 9690, 11382,		.....	84, 297, 17893
21221,	21223,	11394, 11428,		\@bidi@estpelt ....	
21225,	21226,	11447, 11477,		... 6348, 6354, 6358	
21227,	21228,	11491, 11527,		\@bidi@EqualStringX	
21229,	21230,	11548, 15549,		... 6413, 6414, 6415	
21231,	21257,	15561, 15595,		\@bidi@after@Hy@hyperfootnotes	
21264,	21760,	15614, 19008,		.....	11685,
21762,	21764,	20519, 20521,		11886, 12147,	
21766,	21788,	20539, 20584,		12172, 12446,	
21804,	22505,	20603, 20658,		12471, 12733,	
22507,	22509,	20660, 20680,		12758, 13032,	
22511,	22513,	20727, 20749,		13057, 13331,	
22516,	22519,	20760, 20916,		13356, 13630,	
22527,	22549,	20930, 20971,		13655, 13929,	
22565,	23274,	20992, 21103,		13954, 14228,	
23276,	23278,	21117, 21153,		14253, 14527,	



14552, 14869,	6501, 6502, 6506,	\@bidi@pdfm@markfalse
14922, 14976, 15027	6507, 6511, 6512,	..... 4167, 4576
\@bidi@append@to@csl	6517, 6518, 6522, 6523	\@bidi@pdfm@marktrue
... 6560, 6564, 6574	\@bidi@finalfootnoteperpagefalse	..... 4166, 4575
\@bidi@append@to@list	..... 12042	\@bidi@pdfproducer
..... 6564,	\@bidi@finalfootnoteperpagetrue	..... 4264,
6567, 6570, 6577, 6585	..... 12040	4413, 4439, 4557, 4569
\@bidi@bannerfalse 4068	\@bidi@ifnxtc	\@bidi@perpage@footnotefalse
\@bidi@bannertrue . 4067	... 6461, 6464, 6465	..... 4176
\@bidi@before@Hy@hyperfootnotesi	\@bidi@info 4188, 4217,	\@bidi@perpage@footnotetrue
..... 11671,	4218, 4452, 4480, 4481	..... 4175
11879, 12132,	\@bidi@inslogo@	\@bidi@prepend@to@csl
12157, 12431,	... 4159, 4160,	..... 6562,
12456, 12718,	4291, 4517, 4553, 4578	6565, 6576, 6618, 6620
12743, 13017,	\@bidi@list@minipage@parbox@mdf@border@	\@bidi@prepend@to@list
13042, 13316,	..... 16231, 25986	..... 6565,
13341, 13615,	\@bidi@list@minipage@parboxfalse	6568, 6572, 6578, 6586
13640, 13914,	..... 1967, 23979	\@bidi@removefromreset
13939, 14213,	\@bidi@list@minipage@parboxtrue	... 5484, 5485, 5487
14238, 14512,	. 16232, 25990, 25993	\@bidi@saveprimitive
14537, 14849,	\@bidi@logo ... 4307,	..... 5328
14902, 14954, 15005	4336, 4525, 4552	\@bidi@stepcounter
\@bidi@copy@stacktop	\@bidi@logo@	..... 6347, 6353
..... 6632, 6635	... 4160, 4291,	\@bidi@tabular@RTLcases
\@bidi@copyins@	4333, 4517, 4552, 4553	. 25899, 25901, 25908
... 4287, 4288,	\@bidi@logo@hb@xt@	\@bidi@todonotes@align
4289, 4290, 4291,	..... 4518, 4552	..... 25476,
4513, 4514, 4515,	\@bidi@logo@hb@xt@columnwidth	25477, 25509,
4516, 4517, 11954,	..... 4292, 4334	25550, 25553,
16537, 16538,	\@bidi@lst@makecaption	25556, 25559,
16539, 16540,	..... 18106,	25584, 25589, 25590
16550, 16551,	18122, 18123,	\@bidi@todonotes@figgposition@rightfalse
16599, 16600,	18154, 18155,	..... 25491
16656, 16657,	18156, 18160, 18162	\@bidi@todonotes@figgposition@righttrue
16658, 16659,	\@bidi@mdf@RTLtrue 18343	..... 25489
16676, 16677,	\@bidi@orig@XeLaTeX	\@bidi@todonotes@textdirection
16695, 16704,	..... 25893, 25894	.. 25478, 25482,
16716, 16722,	\@bidi@orig@XeTeX .	25485, 25589, 25590
16726, 16738,	..... 25886, 25887	\@bidi@todonotes@textdirection@RTLfalse
16740, 16743,	\@bidi@pdfbannerfalse	..... 25484
16774, 19568,	..... 4075	\@bidi@todonotes@textdirection@RTLtrue
19569, 19577,	\@bidi@pdfbannertrue	..... 25481
20155, 20157,	..... 4074	\@bidi@w@w
20158, 26305,	\@bidi@pdfcreator .	..... 6543
26311, 26314,	..... 4261,	\@bidi@ww
26328, 26330, 26333	4412, 4438, 4554, 4568	..... 6537
\@bidi@emptytoks ..	\@bidi@pdfcustomproperties	\@bidideclaredcolor
... 5341, 5346, 5370	..... 4267,	..... 9963,
\@bidi@envbody	4414, 4425, 4560, 4571	9970, 25730, 25759
... 5340, 5342,	\@bidi@pdfencryptfalse	\@biditytfeLTRsidenote@normal@cite
5344, 5345, 5346,	..... 4391	..... 8018,
5366, 5368, 5369, 5370	\@bidi@pdfencrypttrue	8097, 8217, 8246,
\@bidi@fi	..... 4393, 4396	8275, 8297, 8306, 8315
6495, 6496, 6497,		\@biditytfeLTRsidenote@normal@cite
		..... 8037,





<code>\@bidituftesidenote@trim@</code>	18276, 18281,	<code>\@classiv</code> . . . . .	4878,
. . . 7973, 7976, 7981	18293, 20149,		18198, 23777,
<code>\@bidituftesidenote@trim@spaces</code>	26290, 26294,		25912, 26090, 26115
7958, 7961, 8010,	26306, 26310, 26321	<code>\@classx</code> .	1446, 1505, 9907
8012, 8029, 8031,	<code>\@cclvi</code> . . . . .		1446,
8048, 8050, 8080, 8082	14879, 14930,		1505, 1539, 1540,
<code>\@bidituftesidenotemarginparreset</code>	4932, 14982,		4877, 9907, 18198,
. . . . . 7814, 7821	14984, 15033, 15035		23776, 23816,
<code>\@bidituftesidenotesavemark@</code>	<code>\@centercr</code> 8527, 20259,		25911, 26089, 26114
. . . . . 7801,	20272, 20285,	<code>\@cleartopmattertags</code>	
7802, 7805, 7808	23985, 24014, 26049	. . . . .	129, 17975
<code>\@bidituftesidenotexmpar</code>	<code>\@cftasnum</code> . . .	<code>\@cliptoboxdim</code> . . .	23943
. . . . . 7799, 7800	24176,	<code>\@clsextension</code> . . . .	
<code>\@bidituftesidenoteympar</code>	24207, 24230,	. . . .	6823, 6829,
. . . . . 7799, 7804	24247, 24264,		6847, 7062, 7065, 7074
<code>\@bidituftetoc@lof@line</code>	24281, 24298,	<code>\@clubpenalty</code> . .	625,
. . . . . 8446, 8462	24315, 24333,		2672, 9792, 11627,
<code>\@bidituftetoc@pkgnam</code>	<code>\@cftasnumb</code> . .		21064, 21267, 24080
. . . . . 8322, 8323	24177,	<code>\@colht</code> . . . . .	10266,
<code>\@bidundeclaredcolor</code>	24208, 24231,		10293, 10294,
. . . . 9963, 9964,	24248, 24265,		10378, 10379,
25730, 25731, 25770	24282, 24299,		10395, 10511,
<code>\@bscontmark</code> . . . . .	24316, 24334,		10526, 10527,
19031	24353, 24373, 24408		10537, 10538,
<code>\@bsmarkseries</code> . . .	<code>\@cftbsnum</code> . . .		10545, 10561,
19012	24175,		10565, 15354,
<code>\@bsmtitleempty</code> . . .	24206, 24229,		15845, 16649,
19000	24246, 24263,		16661, 16662,
<code>\@bspback</code> . . . . .	24280, 24297,		16663, 16665,
4941, 7785, 7829,	24314, 24332,		16667, 16755,
7873, 26342, 26386	24351, 24371, 24406	<code>\@cftdopartfalse</code> .	24149
<code>\@bsthanksheadpost</code>	<code>\@cftdoparttrue</code> . . .		18287, 18288,
19014	. . . . .		24152, 24156
<code>\@bsthanksheadpre</code>	<code>\@cftl@subfig</code> . . . .		24340
19014	<code>\@cftl@subtab</code> . . . .		24360
<code>\@caption</code> . . . . .	<code>\@chapapp</code> .		9558, 9753,
. 7540, 19134, 19137	11587, 15492, 21236	<code>\@chapterlists gap@off</code>	
<code>\@captionabovefalse</code>	<code>\@chapterlists gap@on</code>		19694
. 22025, 22787, 23552	. . . . .		19701, 19709
<code>\@captionabovetrue</code>	<code>\@chclass</code> . .		362, 374,
. 22023, 22785, 23550	385, 1418, 1430,		1443, 1463, 1468,
<code>\@capytype</code> .	23913, 23929,		23940, 26117, 26122
4881, 4929,	<code>\@checkend</code> . . .		5359, 5383
4977, 7353, 19127,	<code>\@chnum</code> .		363, 370, 381,
19131, 19134,	1419, 1426, 1439,		1449, 1465, 1466,
21279, 21322,	1467, 1480, 1488,		1514, 9913, 23914,
21930, 21934,	23921, 23936,		26119, 26120, 26121
21936, 21937,	<code>\@circlefnt</code> . . . . .		15651
22006, 22691,			
22695, 22697,			
22698, 22768,			
23456, 23460,			
23462, 23463, 23533			
<code>\@cclv</code> . . . . .			
10838,			
10895, 15364,			
15365, 15393,			
15403, 16671,			
16683, 16717,			
16720, 16721,			
16731, 16732,			



<code>\@colourorangefalse</code>	9187, 9197, 26478	13162, 13202,
..... 10576, 10674		13231, 13244,
<code>\@colourorangetrue</code>	9151, 26478, 26480	13258, 13271,
..... 10577, 10675		13285, 13373,
<code>\@colouredfalse</code> ..	4980, 4984, 7750,	13403, 13419,
..... 10580, 10678	7753, 7794, 7797,	13434, 13446,
<code>\@colouredtrue</code> ...	7802, 7806, 7838,	13461, 13501,
..... 10581, 10679	7841, 7846, 7850,	13530, 13543,
<code>\@colourtrue</code> .....	7882, 7885, 7890,	13557, 13570,
..... 5040	7894, 15418,	13584, 13672,
<code>\@colroom</code> .... 10538,	26351, 26354,	13702, 13718,
10541, 10543,	26359, 26363,	13733, 13745,
10544, 10838,	26395, 26398,	13760, 13800,
10895, 16649,	26403, 26407,	13829, 13842,
16663, 16666,	26429, 26438, 26470	13856, 13869,
16668, 18287,		13883, 13971,
18296, 21518,		14001, 14017,
21535, 22258,		14032, 14044,
22275, 23031, 23048		14059, 14099,
<code>\@combinedblfloats</code>		14128, 14141,
.. 10178, 10237,		14155, 14168,
15708, 15744,		14182, 14270,
15826, 16582,		14300, 14316,
16635, 19239,		14331, 14343,
19336, 26229, 26272		14358, 14398,
<code>\@combinefloats</code> ...		14427, 14440,
..... 15349, 16751		14454, 14467,
<code>\@compactenum@</code> .... 8509		14481, 14569,
<code>\@cons</code> ..... 26428, 26429		14599, 14615,
<code>\@contcshortstyle</code> 19082		14630, 14642,
<code>\@contcstyle</code> .....		14657, 14697,
. 19087, 19093, 19098		14726, 14739,
<code>\@contcwidth</code> 19076, 19077		14753, 14766,
<code>\@contdelim</code> .....		14780, 15065,
.. 19070, 19081,		15096, 15114,
19085, 19092, 19097		15130, 15144,
<code>\@contfield</code> .....		15160, 15199,
... 9139, 9154, 9186		15229, 15243,
<code>\@contfinal</code> .....		15258, 15272,
.. 19070, 19082,		15287, 16130,
19088, 19094, 19098		16147, 16163,
<code>\@contfmark</code> 19069, 19072		16192, 16207, 16222
<code>\@contfnote</code> 19068, 19071		<code>\@currentlabelname</code>
<code>\@contindw</code> .....		..... 17362,
..... 19093		17377, 17392,
<code>\@contnfont</code> .....		17451, 17489,
.. 19070, 19081,		17522, 17553, 17584
19085, 19092, 19097		<code>\@currenvir</code> .....
<code>\@contpost</code> .....		5345, 5348, 5349,
..... 19102		5369, 5372, 5373, 5400
<code>\@contpre</code> .... 19080,		<code>\@currentext</code> .... 24600,
19086, 19091, 19096		24712, 24770, 24780
<code>\@conttfont</code> .....		<code>\@currlist</code> .....
.. 19070, 19082,		..... 26428
19088, 19094, 19098		<code>\@curtabmar</code> 26477, 26480
<code>\@curfield</code> .....		
9138, 9153, 9173,		
	9187, 9197, 26478	
	<code>\@curline</code> .....	
	9136,	
	9151, 26478, 26480	
	<code>\@currbox</code> .....	
	4949,	
	4980, 4984, 7750,	
	7753, 7794, 7797,	
	7802, 7806, 7838,	
	7841, 7846, 7850,	
	7882, 7885, 7890,	
	7894, 15418,	
	26351, 26354,	
	26359, 26363,	
	26395, 26398,	
	26403, 26407,	
	26429, 26438, 26470	
	<code>\@currentHlabel</code> ...	
	. 17360, 17375, 17390	
	<code>\@currentHref</code> .....	
	.. 17361, 17376,	
	17391, 17450,	
	17488, 17521,	
	17552, 17583,	
	17805, 17816, 17818	
	<code>\@currentlabel</code> .. 43,	
	57, 73, 256, 270,	
	285, 2295, 2312,	
	2329, 2345, 2361,	
	2377, 8142, 8160,	
	8178, 11742,	
	11758, 11773,	
	11789, 11804,	
	11817, 11830,	
	11842, 11854,	
	11867, 12189,	
	12219, 12235,	
	12250, 12262,	
	12277, 12317,	
	12346, 12359,	
	12373, 12386,	
	12400, 12488,	
	12517, 12532,	
	12546, 12557,	
	12571, 12610,	
	12638, 12650,	
	12663, 12675,	
	12688, 12775,	
	12805, 12821,	
	12836, 12848,	
	12863, 12903,	
	12932, 12945,	
	12959, 12972,	
	12986, 13074,	
	13104, 13120,	
	13135, 13147,	



<code>\@cvtheme</code> . . . . .	5121, 5124	<code>\@dischyph</code> . . . . .	7693, 7694, 7695, 16508, 18354, 20312
<code>\@cvthemeoptions</code> . . . . .	5122, 5124	<code>\@displaypagenumbersfalse</code> . . . . .	10825, 10831, 10866, 10868,
<code>\@date</code> . . . . .	469, 481, 517, 540, 811, 813, 825, 870, 890, 1063, 1065, 1077, 1122, 1142, 1313, 1315, 1327, 1372, 1393, 1402, 4631, 8673, 8727, 9355, 9357, 9369, 9532, 9534, 9546, 9622, 9634, 9670, 9693, 11385, 11395, 11429, 11450, 11480, 11492, 11528, 11551, 11636, 11641, 15552, 15562, 15596, 15617, 17984, 17989, 19009, 20527, 20529, 20541, 20586, 20606, 20666, 20668, 20682, 20729, 20752, 20761, 20919, 20931, 20972, 20994, 21106, 21118, 21154, 21177, 21593, 21733, 22333, 22473, 23106, 23246	<code>\@displaypagenumberstrue</code> . . . . .	10870, 10876, 10888, 10918, 10920, 10922, 10928, 23844, 23846
<code>\@dblarg</code> . . . . .	19134	<code>\@dmath</code> . . . . .	9799, 9828
<code>\@dblfloatplacement</code> . . . . .	10182, 10241, 15709, 15748, 15833, 16586, 16639, 19243, 19340, 26233, 26276	<code>\@docclearpage</code> . . . . .	15433
<code>\@declaredcolor</code> 9948, 9949, 25687, 25710		<code>\@doccolbox</code> . . . . .	15899
<code>\@dedication</code> . . . . .	21635, 21638, 21743, 22375, 22378, 22483, 23148, 23151, 23256	<code>\@dodynamicthefoot</code> 15823	
<code>\@dedicatory</code> . . . . .	333	<code>\@dodynamicthehead</code> 15823	
<code>\@deferlist</code> . . . . .	16647	<code>\@dotsep</code> . . . . .	25327, 25328, 25436, 26142
<code>\@depth</code> . . . . .	405, 18210, 23756, 23785, 23825, 26099, 26467	<code>\@dottedtocline</code> . . . . .	25442, 25443, 25445, 25463, 26131
<code>\@dgroup</code> . . . . .	9811	<code>\@dseries</code> . . . . .	9824
		<code>\@eha</code> . . . . .	5336, 24394
		<code>\@ehc</code> . . . . .	5456, 5458, 5464, 5466, 5472, 5474, 5480, 5482, 5891, 6757, 18075, 18082, 18274, 19381, 19387
		<code>\@ehd</code> . . . . .	19128
		<code>\@eightcol@LTRfootgroupv@l</code> . . . . .	13925, 13950
		<code>\@eightcol@footgroupv@r</code> . . . . .	13921, 13946
		<code>\@eightcolLTRfootfmt</code> . . . . .	14020, 14035, 14075, 14144, 14158
		<code>\@eightcolLTRfootnotetext</code> . . . . .	13916, 14013
		<code>\@eightcolRTLfootfmt</code> . . . . .	14047, 14062, 14078, 14171, 14185
		<code>\@eightcolRTLfootnotetext</code> . . . . .	13917, 14040
		<code>\@eightcolfootfmt</code> . . . . .	13974, 14004, 14072, 14102, 14131
		<code>\@eightcolfootnotetext</code> . . . . .	13915, 13961
		<code>\@elt</code> . . . . .	5486, 5489, 7638, 7639, 7640, 7641, 7642, 7643, 7644, 7645, 7646, 7647, 7648, 7649, 7679, 7680, 7681, 7682, 7683, 7684, 7685, 7686, 7687, 7688, 7689, 7690, 7691, 7692,
		<code>\@email</code> 5133, 10666, 10764	
		<code>\@empty</code> . . . . .	86, 115, 134, 136, 299, 427, 479, 480, 481, 482, 515, 516, 517, 518, 621, 756, 822, 823, 824, 825, 867, 868, 869, 870, 1019, 1074, 1075, 1076, 1077, 1119, 1120, 1121, 1122, 1269, 1324, 1325, 1326, 1327, 1369, 1370, 1371, 1372, 2024, 2025, 2404, 2430, 2456, 2667, 3113, 3119, 3125, 3203, 3605, 3752, 3848, 3943, 4160, 4553, 4629, 4630, 4631, 4632, 4936, 5248, 5257, 5357, 5381, 6587, 8001, 8020, 8039, 8060, 8067, 8655, 8722, 8723, 8724, 9291, 9366, 9367, 9368, 9369, 9479, 9543, 9544, 9545, 9546, 9632, 9633, 9634, 9635, 9668, 9669, 9670, 9671, 9788, 9814, 10146, 10209, 10865, 10917, 11352, 11393, 11394, 11395, 11396, 11427, 11428, 11429, 11430, 11490, 11491, 11492, 11493, 11526, 11527, 11528, 11529, 11623, 11634, 11650, 11654, 15061, 15092, 15110, 15126,





15140,	15156,	21662,	21677,	23225,	23233,
15195,	15225,	21678,	21682,	23234,	23244,
15239,	15254,	21683,	21691,	23245,	23246,
15268,	15283,	21692,	21696,	23247,	23248,
15348,	15527,	21697,	21706,	23249,	23250,
15560,	15561,	21707,	21711,	23251,	23252,
15562,	15563,	21712,	21720,	23253,	23254,
15594,	15595,	21721,	21731,	23255,	23256,
15596,	15597,	21732,	21733,	23298,	23329,
15688,	15724,	21734,	21735,	23354,	23355,
16278,	16360,	21736,	21737,	23460,	23714,
16560,	16609,	21738,	21739,	23831,	23879,
16647,	16750,	21740,	21741,	24076,	24380,
16765,	16766,	21742,	21743,	24382,	24735,
16767,	16768,	21773,	21803,	24741,	25208,
16769,	17362,	21828,	21829,	25690,	25693,
17377,	17392,	21934,	22193,	25733,	25736,
17451,	17489,	22293,	22294,	25899,	26107,
17522,	17553,	22301,	22309,	26116,	26205,
17584,	17895,	22316,	22322,	26252,	26517,
17961,	17982,	22338,	22344,	26518,	26520, 26521
18127,	18133,	22357,	22360,	\@emptycol ... 10530,	
18156,	18160,	22367,	22375,	10533, 10549, 10552	
18162,	18224,	22380,	22395,	\@emptytoks ..... 9813	
18249,	19006,	22402,	22417,	\@end@tempboxa 16792,	
19007,	19008,	22418,	22422,	16886, 16903, 26011	
19009,	19168,	22423,	22431,	\@endfloatbox ..... 5001	
19268,	19688,	22432,	22436,	\@endmodernpoem ...	
20197,	20472,	22437,	22446,	..... 9149, 9169	
20538,	20539,	22447,	22451,	\@endparenv ... 9059,	
20540,	20541,	22452,	22460,	9166, 19743, 19763	
20583,	20584,	22461,	22471,	\@endparpenalty 4794,	
20585,	20586,	22472,	22473,	4803, 15759, 15773	
20679,	20680,	22474,	22475,	\@endpbox .....	
20681,	20682,	22476,	22477,	1456, 1457, 1498,	
20726,	20727,	22478,	22479,	1522, 1523, 1524,	
20728,	20729,	22480,	22481,	9921, 9922, 9923,	
20866,	20929,	22482,	22483,	18195, 18201,	
20930,	20931,	22533,	22564,	23791, 23829, 26105	
20932,	20970,	22589,	22590,	\@endpetrue 25843, 25853	
20971,	20972,	22695,	22966,	\@endtraditionalpoem	
20973,	21060,	23066,	23067,	..... 9040, 9105	
21116,	21117,	23074,	23082,	\@ensure@LR 20139, 25863	
21118,	21119,	23089,	23095,	\@ensure@LTR .. 20137,	
21152,	21153,	23111,	23117,	20139, 20147,	
21154,	21155,	23130,	23133,	25861, 25863,	
21263,	21454,	23140,	23148,	25871, 25873,	
21553,	21554,	23153,	23168,	25875, 26757, 26759	
21561,	21569,	23175,	23190,	\@ensure@RL 20138, 25862	
21576,	21582,	23191,	23195,	\@ensure@RTL .. 20136,	
21598,	21604,	23196,	23204,	20138, 25860, 25862	
21617,	21620,	23205,	23209,	\@ensure@dir .. 20140,	
21627,	21635,	23210,	23219,	20141, 25864, 25865	
21640,	21655,	23220,	23224,		



<code>\@ensure@maindir ..</code>	<code>\@firstcolfirstmark</code>	<code>\@firstnamecolour .</code>
..... 20141, 25865	..... 10145,	..... 5095, 5112
<code>\@enumctr 2605, 8510, 8511</code>	10146, 10150,	<code>\@firstofone .....</code>
<code>\@eqnum .....</code>	10208, 10209,	.... 6220, 6227,
. 15780, 17978, 26586	10213, 15687,	6235, 6246, 6260,
<code>\@evenfoot 2186, 2227,</code>	15688, 15692,	6266, 6276, 6282,
4593, 15816, 26510	15723, 15724,	7092, 7100, 15853,
<code>\@evenhead .... 2185,</code>	15728, 16559,	15871, 15875,
2227, 15815, 26510	16560, 16564,	15878, 15881,
<code>\@extrafootnotefeaturesfalse</code>	16608, 16609,	15887, 17787,
..... 4130	16613, 19167,	17788, 17789,
<code>\@extrafootnotefeaturestrue</code>	19168, 19172,	17790, 19132,
..... 4129	19267, 19268,	21903, 22664,
<code>\@extrainfo .....</code>	19272, 26204,	23429, 26492,
. 5134, 10667, 10765	26205, 26209,	26534, 26546,
<code>\@extratitle .....</code>	26251, 26252, 26256	26549, 26551,
.. 21553, 21560,	<code>\@firstcoltopmark .</code>	26558, 26562, 26568
21677, 21683,	..... 10143,	<code>\@firstoftwo .....</code>
21691, 21697,	10151, 10206,	4223, 4229, 4235,
21706, 21712,	10214, 15685,	5495, 5503, 5507,
21736, 22293,	15693, 15721,	5515, 5519, 5527,
22300, 22417,	15729, 16557,	5533, 5537, 5550,
22423, 22431,	16565, 16606,	5558, 5564, 5568,
22437, 22446,	16614, 19165,	5576, 5582, 5585,
22452, 22476,	19173, 19265,	5588, 5602, 5609,
23066, 23073,	19273, 26202,	6000, 6018, 6024,
23190, 23196,	26210, 26249, 26257	6048, 6067, 6097,
23204, 23210,	<code>\@firstcolumnfalse</code>	6160, 6170, 19669
23219, 23225, 23249	..... 10136,	<code>\@fivecol@LTRfootgroupv@l</code>
<code>\@familyname ... 5066,</code>	10199, 10569,	..... 13028, 13053
5068, 5069, 5127,	15679, 15715,	<code>\@fivecol@footgroupv@r</code>
10641, 10731, 10752	15840, 16546,	..... 13024, 13049
<code>\@familynamecolour</code>	16595, 19158,	<code>\@fivecol@LTRfootfmt</code>
..... 5096, 5113	19258, 26195, 26242	.. 13123, 13138,
<code>\@fax .. 5132, 10665, 10763</code>	<code>\@firstcolumntrue .</code>	13178, 13247, 13261
<code>\@fcolmadefalse .. 16648</code>	..... 10154,	<code>\@fivecol@LTRfootnotetext</code>
<code>\@ff@do@allframes .</code>	10217, 10524,	..... 13019, 13116
..... 15825, 15830	15695, 15732,	<code>\@fivecol@RTLfootfmt</code>
<code>\@ff@fbox .....</code>	15804, 16570,	.. 13150, 13165,
..... 15908	16619, 19217,	13181, 13274, 13288
<code>\@ff@setoffset ... 15905</code>	19317, 26213, 26260	<code>\@fivecol@RTLfootnotetext</code>
<code>\@ff@background ... 15895</code>	<code>\@firstdetailselementfalse</code>	..... 13020, 13143
<code>\@filebordercolor .</code>	..... 10746	<code>\@fivecolfootfmt ..</code>
..... 17663, 17665	<code>\@firstdetailselementtrue</code>	.. 13077, 13107,
<code>\@filecolor .....</code>	..... 10743	13175, 13205, 13234
..... 17681	<code>\@firstfooterelementfalse</code>	<code>\@fivecolfootnotetext</code>
<code>\@finalstrut .....</code>	..... 10662,	..... 13018, 13064
2299, 2316, 2333,	10663, 10664,	<code>\@float .....</code>
2349, 2365, 2381,	10665, 10666, 10667	..... 7384, 7713
11720, 11726,	<code>\@firstfooterelementtrue</code>	<code>\@float@boxreset ... 4999</code>
11732, 16135,	..... 10647	<code>\@float@penalty . 4942,</code>
16152, 16168,	<code>\@firstname ... 5066,</code>	4944, 4947, 7786,
16196, 16211, 16226	5068, 5069, 5126,	7788, 7792, 7796,
<code>\@firststampfalse ...</code>	10641, 10731, 10752	7830, 7832, 7836,
..... 1478, 1486		7840, 7874, 7876,



7880, 7884, 26343,	15104, 15123, 15167	12228,	12256,
26345, 26349,	\@footnote . . . . . 8604	12270,	12325,
26353, 26387,	\@footnotemark . 2407,	12393,	12496,
26389, 26393, 26397	2414, 2433, 2440,	12525,	12551,
\@floatplacement . 15439	2459, 2466, 4909,	12564,	12617,
\@fltovf . . . . .	4917, 4925, 8113,	12681,	12784,
4982, 7797, 7841,	8206, 8213, 8235,	12814,	12842,
7885, 26354, 26398	8242, 8264, 8271,	12856,	12911,
\@flushglue 8942, 8943,	9087, 9094, 9101,	12979,	13083,
18360, 21028,	16096, 16102,	13113,	13141,
24788, 24792,	16105, 16111,	13155,	13210,
24796, 24842, 26049	17403, 17592,	13278,	13382,
\@fnsymbol . . . . 491,	17596, 17610, 17611	13412,	13440,
786, 845, 1038,	\@footnotetext . . 34,	13454,	13509,
1097, 1288, 1347,	79, 151, 152,	13577,	13681,
4617, 9330, 9507,	153, 247, 292,	13711,	13739,
9644, 11405,	2384, 2388, 2393,	13753,	13808,
11502, 15572,	4866, 4988, 8134,	13876,	13980,
20502, 20561,	8206, 8213, 8957,	14010,	14038,
20641, 20702,	8968, 9174, 9188,	14052,	14107,
20898, 20941,	10784, 10785,	14175,	14279,
21128, 21550,	11675, 11689,	14309,	14337,
21671, 22290,	11690, 11734,	14351,	14406,
22411, 23063, 23184	11872, 11880,	14474,	14578,
\@footgroupv@r 11952,	12133, 12158,	14608,	14636,
12110, 12139,	12432, 12457,	14650,	14705,
12164, 12200,	12719, 12744,	14773,	14865,
12226, 12243,	13018, 13043,	14918,	14968,
12283, 12438,	13317, 13342,	15019,	15075,
12463, 12498,	13616, 13641,	15106,	15137,
12523, 12539,	13915, 13940,	15153, 15208, 15280	
12576, 12725,	14214, 14239,	\@footstartv@r 11952,	
12750, 12786,	14513, 14538,	12073,	12200,
12812, 12829,	14850, 14903,	12226,	12243,
12869, 13024,	14956, 14958,	12283,	12327,
13049, 13085,	15007, 15009,	12366,	12498,
13111, 13128,	16122, 16179,	12523,	12539,
13168, 13323,	16241, 17273,	12576,	12619,
13348, 13384,	17281, 17352,	12656,	12786,
13410, 13427,	17400, 17593,	12812,	12829,
13467, 13622,	17597, 17613,	12869,	12913,
13647, 13683,	17614, 18257,	12952,	13085,
13709, 13726,	18410, 19533,	13111,	13128,
13766, 13921,	19535, 19536,	13168,	13212,
13946, 13982,	21405, 21408,	13251,	13384,
14008, 14025,	21846, 22144,	13410,	13427,
14065, 14220,	22147, 22607,	13467,	13511,
14245, 14281,	22917, 22920,	13550,	13683,
14307, 14324,	23372, 23859,	13709,	13726,
14364, 14519,	23876, 23966, 23968	13766,	13810,
14544, 14580,	\@footstartv@l 11750,	13849,	13982,
14606, 14623,	11781, 11823,	14008,	14025,
14663, 14858,	11860, 11953,	14065,	14109,
14911, 15077,	12074, 12198,	14148,	14281,



14307,	14324,	22451,	22477,	\@hboxRconstructtrue
14364,	14408,	23067,	23070,	428, 20095, 23796,
14447,	14580,	23074,	23077,	23835, 25799, 26112
14606,	14623,	23191,	23195,	\@height . . . . . 404,
14663,	14707,	23205,	23209,	1536, 9935, 10412,
14746,	14859,	23220, 23224, 23250		16489, 18209,
14912,	15077,	\@fs@capt 7727, 7740, 7748		18262, 18380,
15104,	15123,	\@fs@cfont . . . . 7720,		21491, 21498,
15167, 15210, 15251		7726, 7736, 7739,		22231, 22238,
\@for . . . . . 8002,		7747, 15784, 15785		23004, 23011,
8007, 8021, 8026,		\@fs@iftopcapt . . . .		23756, 23784,
8040, 8045, 8068,		. . . . 7731, 7744, 7757		23825, 26098, 26467
8077, 10114, 24739		\@fs@mid . 7730, 7743, 7755		\@highpenalty . . . . .
\@fourcol@LTRfootgroupv@1		\@fs@post 7729, 7742, 7756		. . . . 9236, 9252,
. . . . . 12729, 12754		\@fs@pre . 7728, 7741, 7749		9259, 9269, 9413,
\@fourcol@footgroupv@r		\@g@tnextcol . . . . . 15802		9429, 9436, 9446,
. . . . . 12725, 12750		\@getcirc . . . . . 15647		9700, 9715, 9725,
\@fourcolLTRfootfmt		\@gnewline . . . . 20261,		11558, 15460,
. . . . 12824, 12839,		20274, 20287, 20298		15475, 15485,
12879, 12948, 12962		\@gobble . . 4846, 5356,		20412, 20428,
\@fourcolLTRfootnotetext		5380, 5402, 5407,		20435, 20445,
. . . . . 12720, 12817		6123, 6124, 6125,		20784, 20800,
\@fourcolRTLfootfmt		6126, 6127, 6222,		20807, 20817,
. . . . 12851, 12866,		6237, 6252, 6298,		21000, 21014,
12882, 12975, 12989		6312, 6324, 6336,		21024, 21184,
\@fourcolRTLfootnotetext		7217, 8777, 8842,		21199, 21209,
. . . . . 12721, 12844		15863, 15864,		24162, 24197,
\@fourcolfootfmt . .		15865, 19129,		24586, 24610, 24698
. . . . 12778, 12808,		21845, 21846,		\@hintcolour . . 5103, 5119
12876, 12906, 12935		21847, 21848,		\@holdpg 10272, 10289,
\@fourcolfootnotetext		22606, 22607,		10292, 10309,
. . . . . 12719, 12765		22608, 22609,		10400, 10433, 10435
\@fps . . . . . 4930,		23371, 23372,		\@hyper@launch . . . 17686
4931, 4933, 4936, 4953		23373, 23374,		\@idxitem 102, 107, 232,
\@fpsadddefault . . .		25694, 25737,		237, 644, 659, 908,
. . . . . 4934, 4937		26527, 26528, 26529		1160, 8568, 8575,
\@freelist . . . . 4949,		\@gobbletwo 2209, 5421,		9211, 9388, 9599,
7638, 7679, 7794,		5422, 5425, 5426,		17912, 17917,
7795, 7838, 7839,		5436, 5437, 5440,		20369, 20624,
7882, 7883, 15347,		5441, 5444, 5445,		21084, 24140, 26596
16749, 26351,		5448, 5449, 6356,		\@ifclassloaded . . .
26352, 26395,		21849, 22610, 23375		6819, 6845, 7139,
26396, 26428, 26429		\@gtempa . . . . . 5632, 5633		7145, 7208, 8617, 8619
\@frontispiece . . . .		\@halignto . . . . 413,		\@ifdefinable . . 5614,
. . . . 21554, 21557,		445, 23789, 23827,		5617, 5620, 5635,
21561, 21564,		25899, 26103, 26116		5878, 5893, 16019
21678, 21682,		\@hangfrom . . . 21940,		\@ifempty . . 7, 212, 17940
21692, 21696,		21970, 21973,		\@ifnextchar . . . 163,
21707, 21711,		22701, 22731,		4814, 4844, 4859,
21737, 22294,		22734, 23466,		5868, 7799, 7843,
22297, 22301,		23496, 23499, 26071		7887, 9948, 9963,
22304, 22418,		\@hboxRconstructfalse		16094, 16103,
22422, 22432,		. . . . . 20105, 25809		16265, 16280,
22436, 22447,				16298, 16304,



16858, 17600,	..... 25720, 25754	15737, 16547,
17624, 19548,	\@ifxempty ..... 25780	16575, 16596,
19747, 19767,	\@ignoretrue .. 2235, 9835	16628, 19159,
25687, 25730,	\@iiiminipage .... 16228	19218, 19231,
25924, 26356, 26400	\@iiiparbox .....	19259, 19318,
\@ifpackagelater . 15965	. 12092, 16259, 25982	19327, 26196,
\@ifpackageloaded .	\@indextitlestyle .	26222, 26243, 26265
.... 6858, 6888,	.... 100, 230, 17910	\@let@token .. 5393, 5396
6930, 7091, 7176,	\@inlabelfalse .... 9802	\@listI ..... 7254
7180, 7706, 7711,	\@insertfalse .... 10257	\@listdepth .. 16078,
7764, 11257, 11258	\@inserttrue ..... 10523	16244, 16513,
\@ifpackagewith 197,	\@iprintcites .... 20253	16517, 21432,
201, 203, 205,	\@itemdepth ... 2596,	22171, 22944,
10091, 18047,	2616, 2617, 2618	25936, 25939, 25944
18050, 18053,	\@itemfudge 26477, 26479	\@listi .. 7254, 7262, 8472
18060, 20346,	\@itemlabel ..... 25945	\@lowertitleback ..
20349, 23688,	\@ixpt ..... 8468	.. 21604, 21615,
23699, 23706, 24088	\@keywords ..... 334	21627, 21662,
\@ifstar .. 5985, 7556,	\@kludgeins .. 15351,	21742, 22344,
11261, 11887,	16752, 19575, 19580	22355, 22367,
12152, 12177,	\@lastchclass .. 363,	22402, 22482,
12451, 12476,	364, 365, 366, 368,	23117, 23128,
12738, 12763,	1419, 1420, 1421,	23140, 23175, 23255
13037, 13062,	1422, 1424, 1463,	\@lowpenalty . 4790, 25236
13336, 13361,	1464, 1476, 1484,	\@m .. 93, 306, 627, 759,
13635, 13660,	23914, 23915,	1022, 1272, 2674,
13934, 13959,	23916, 23917,	9294, 9482, 9794,
14233, 14258,	23919, 26117, 26118	11355, 11629,
14532, 14557,	\@lastvipertrue ...	15530, 16548,
14897, 14950,	..... 10535, 10554	16550, 16597,
15001, 15052, 16861	\@latex@error .. 5335,	16599, 17902,
\@ifundefined .. 340,	19128, 19381, 19387	19668, 20475,
341, 2508, 5223,	\@latex@warning ...	20869, 21066,
5454, 5457, 5462,	..... 95, 308,	21269, 21807,
5465, 5470, 5473,	629, 761, 1024,	22568, 23333, 24082
5478, 5481, 7948,	1274, 2676, 5253,	\@mainmatterfalse .
8431, 8439, 8554,	9296, 9484, 9796,	..... 8804,
8556, 8561, 8651,	11357, 11631,	8834, 9776, 11611
8668, 9950, 9957,	15532, 17904,	\@mainmattertrue ..
9965, 9971, 15787,	20477, 20871,	..... 8801, 8817
16012, 17797,	21068, 21271,	\@makeLRFntext ...
17798, 18085,	21811, 21818,	... 2280, 2332, 2380
18096, 18159,	22572, 22579,	\@makeRFLfntext ...
18161, 18166,	23337, 23344, 24084	... 2275, 2315, 2364
19855, 20343,	\@latex@warning@no@line	\@makecaption .. 7551,
24381, 24385,	. 10528, 10546, 26443	9896, 19065,
24461, 24483,	\@latexbug ..... 26429	19115, 19147,
24484, 24532,	\@latexerr .....	21897, 21929,
24533, 24620,	. 16686, 16696, 16706	22658, 22690,
24642, 24643,	\@leftcolumn .. 10137,	23423, 23455, 26571
24927, 24950,	10163, 10200,	\@makechapterhead .
25004, 25064,	10222, 10275,	. 311, 9553, 9748,
25113, 25130, 25160	10280, 15680,	11582, 15488,
\@ifundefinedmodel	15701, 15716,	20244, 21232, 24105



<code>\@makecol</code>	15411, 15412, 16672, 16682, 18282, 18294, 26288	15500, 20365, 20620, 21079, 21244, 24111, 24116	26438, 26441, 26449, 26451, 26452, 26454, 26455, 26456, 26465, 26469, 26470
<code>\@makeextratitle</code>	.. 21680, 21694, 21709, 22420, 22434, 22449, 23193, 23207, 23222	<code>\@makespecialcolbox</code> ..... 15352, 16753	<code>\@mathmargin</code> .. 11213, 11220, 11228, 11235
<code>\@makefnmark</code>	... 492, 846, 1348, 2277, 2282, 4618, 8109, 8120, 9645, 10789, 10810, 11406, 11503, 15573, 17927, 19013, 20562, 20703, 20899, 20942, 21129, 21551, 21552, 21672, 21673, 22291, 22292, 22412, 22413, 23064, 23065, 23185, 23186	<code>\@maketitle</code> ... 120, 326, 330, 498, 500, 505, 514, 524, 852, 854, 859, 866, 876, 1104, 1106, 1111, 1118, 1128, 1354, 1356, 1361, 1368, 1378, 4622, 4628, 9651, 9653, 9658, 9667, 9677, 11412, 11414, 11419, 11426, 11436, 11509, 11511, 11516, 11525, 11535, 15579, 15581, 15586, 15593, 15603, 17966, 19018, 19020, 19027, 20568, 20570, 20575, 20582, 20592, 20709, 20711, 20716, 20725, 20735, 20953, 20955, 20960, 20969, 20979, 21135, 21137, 21142, 21151, 21161, 21689, 21703, 21718, 21730, 22429, 22443, 22458, 22470, 23202, 23216, 23231, 23243	<code>\@maxdepth</code> ... 15363, 15378, 15399, 15410, 16763, 26293, 26309, 26320
<code>\@makefntext</code>	.... 45, 59, 75, 258, 272, 287, 493, 783, 848, 1035, 1098, 1285, 1350, 2298, 2348, 4619, 8107, 8146, 8164, 8182, 9327, 9504, 9646, 11407, 11504, 15574, 16134, 16151, 16167, 16195, 16210, 16225, 16770, 19015, 20499, 20564, 20638, 20705, 20901, 20944, 21130, 21422, 21449, 21452, 22161, 22188, 22191, 22934, 22961, 22964	<code>\@menubordercolor</code> . ..... 17757, 17759	<code>\@memtempa</code> ... 19065, 19067, 19081, 19088, 19092, 19097
<code>\@makefrontispiece</code>	.. 21686, 21700, 21715, 22426, 22440, 22455, 23199, 23213, 23228	<code>\@menucolor</code> ..... 17768	<code>\@menubordercolor</code> . ..... 17757, 17759
<code>\@makeother</code>	... 5984, 6030, 6134, 6142	<code>\@midlist</code> .... 15347, 15348, 16749, 16750	<code>\@minipagerestore</code> 16245
<code>\@makeschapterhead</code>	9207, 9384, 9573, 9594, 9762, 11597,	<code>\@minipagetrue</code> .... .... 7824, 7868, 7912, 26381, 26425	<code>\@minus</code> 5170, 5256, 7250, 7252, 7259, 7261, 7263, 7264, 8469, 8471, 8473, 8474, 16427, 16465, 19665, 22086, 22104, 22114, 22124, 22135, 22857, 22877, 22887, 22897, 22908, 23622, 23642, 23652, 23662, 23673, 23721
		<code>\@mkboth</code> ..... 612, 640, 656, 747, 905, 1010, 1157, 1260, 2209, 9208, 9282, 9385, 9470, 9595, 9779, 11343, 11614, 15518, 20366, 20463, 20621, 20857, 21051, 21080, 21254	<code>\@mklab</code> ..... 25946



<code>\@mkpream</code> . 409, 18214, 23787, 23819, 26101	<code>\@mpRTLfootnotetext</code> ... 2352, 11680,	<code>\@mparswitchfalse</code> . 7233
<code>\@mobile</code> 5130, 10663, 10761	11699, 11700,	<code>\@mparswitchtrue</code> .. 7228
<code>\@modernpoem</code> .. 9125, 9169	11847, 11877,	<code>\@mpeightcol@LTRfootgroupv@l</code> ..... 13933, 13958
<code>\@mpEightCollTRfootnotetext</code> ..... 13952, 14147	11885, 12146, 12171, 12445,	<code>\@mpeightcol@footgroupv@r</code> ..... 13931, 13956
<code>\@mpEightColRTLfootnotetext</code> ..... 13953, 14174	12470, 12732, 12757, 13031,	<code>\@mpeightcollTRfootnotetext</code> ..... 13927, 14134
<code>\@mpEightColfootnotetext</code> ..... 13951, 14105	13056, 13330, 13355, 13629,	<code>\@mpeightcolRTLfootnotetext</code> ..... 13928, 14161
<code>\@mpFiveCollTRfootnotetext</code> ..... 13055, 13250	13654, 13928, 13953, 14227,	<code>\@mpeightcolfootnotetext</code> ..... 13926, 14081
<code>\@mpFiveColRTLfootnotetext</code> ..... 13056, 13277	14252, 14526, 14551, 14868,	<code>\@mpfivecol@LTRfootgroupv@l</code> ..... 13036, 13061
<code>\@mpFiveColfootnotetext</code> ..... 13054, 13208	14921, 14975, 15026, 16183,	<code>\@mpfivecol@footgroupv@r</code> ..... 13034, 13059
<code>\@mpFourCollTRfootnotetext</code> ..... 12756, 12951	16243, 17292, 17317, 17330, 17406, 18412, 23970	<code>\@mpfivecollTRfootnotetext</code> ..... 13030, 13237
<code>\@mpFourColRTLfootnotetext</code> ..... 12757, 12978	<code>\@mpSevenCollTRfootnotetext</code> ..... 13653, 13848	<code>\@mpfivecolRTLfootnotetext</code> ..... 13031, 13264
<code>\@mpFourColfootnotetext</code> ..... 12755, 12909	<code>\@mpSevenColRTLfootnotetext</code> ..... 13654, 13875	<code>\@mpfivecolfootnotetext</code> ..... 13029, 13184
<code>\@mpLTRfootnotetext</code> ... 2368, 11679, 11697, 11698, 11835, 11876, 11884, 12145, 12170, 12444, 12469, 12731, 12756, 13030, 13055, 13329, 13354, 13628, 13653, 13927, 13952, 14226, 14251, 14525, 14550, 14867, 14920, 14974, 15025, 16198, 16242, 17303, 17318, 17341, 17405, 18411, 23969	<code>\@mpSevenColfootnotetext</code> ..... 13652, 13806	<code>\@mpfn</code> 2394, 2420, 2446, 4884, 4887, 4890, 4906, 4914, 4922, 8204, 8210, 8233, 8239, 8262, 8268, 9064, 9067, 9070, 9084, 9091, 9098, 16094, 16099, 16103, 16108, 16240, 16270, 16285, 17278, 17289, 17300, 17500, 17531, 17562, 17625, 18407, 23901, 23908
<code>\@mpNineCollTRfootnotetext</code> ..... 14251, 14446	<code>\@mpSixCollTRfootnotetext</code> ..... 13354, 13549	<code>\@mpfootins</code> ... 2338, 2339, 2354, 2355, 2370, 2371, 11811, 11812, 11824, 11825, 11836, 11837, 11848, 11849, 11861, 11862, 12005, 12006, 12008, 12009, 12082, 12084, 12087, 12112, 12114, 16185, 16186, 16200, 16201, 16215, 16216, 16250, 16251, 16254, 18396, 18401
<code>\@mpNineColRTLfootnotetext</code> ..... 14252, 14473	<code>\@mpSixColRTLfootnotetext</code> ..... 13355, 13576	
<code>\@mpNineColfootnotetext</code> ..... 14250, 14404	<code>\@mpSixColfootnotetext</code> ..... 13353, 13507	
<code>\@mpParaLTRfootnotetext</code> . 14920, 15025, 15250	<code>\@mpTenCollTRfootnotetext</code> ..... 14550, 14745	
<code>\@mpParaRTLfootnotetext</code> ..... 14921, 15279	<code>\@mpTenColRTLfootnotetext</code> ..... 14551, 14772	
<code>\@mpParafootnotetext</code> . 14919, 15023, 15206	<code>\@mpTenColfootnotetext</code> ..... 14549, 14703	
	<code>\@mpThreeCollTRfootnotetext</code> ..... 12469, 12655	
	<code>\@mpThreeColRTLfootnotetext</code> ..... 12470, 12680	
	<code>\@mpThreeColfootnotetext</code> ..... 12468, 12615	
	<code>\@mpTwoCollTRfootnotetext</code> ..... 12170, 12365	
	<code>\@mpTwoColRTLfootnotetext</code> ..... 12171, 12392	
	<code>\@mpTwoColfootnotetext</code> ..... 12169, 12323	
	<code>\@mparbottom</code> .....	
	<code>\@mpargs</code> .....	



<code>\@mpfootinsv@l</code> . . . .	. . . 12073, 12111,	11696, 11810,
. . . 11823, 11860,	12112, 12302,	11875, 11883,
12074, 12113,	12309, 12327,	12144, 12169,
12114, 12304,	12331, 12338,	12443, 12468,
12311, 12325,	12366, 12380,	12730, 12755,
12333, 12340,	12381, 12394,	13029, 13054,
12353, 12354,	12395, 12595,	13328, 13353,
12367, 12368,	12602, 12619,	13627, 13652,
12393, 12597,	12623, 12630,	13926, 13951,
12604, 12617,	12656, 12669,	14225, 14250,
12625, 12632,	12670, 12682,	14524, 14549,
12644, 12645,	12683, 12888,	14866, 14919,
12657, 12658,	12895, 12913,	14970, 14972,
12681, 12890,	12917, 12924,	15021, 15023,
12897, 12911,	12952, 12966,	16213, 16241,
12919, 12926,	12967, 12980,	17281, 17316,
12939, 12940,	12981, 13187,	17319, 17404,
12953, 12954,	13194, 13212,	18410, 23966, 23968
12979, 13189,	13216, 13223,	<code>\@mpfourcol@LTRfootgroupv@l</code>
13196, 13210,	13251, 13265,	. . . . . 12737, 12762
13218, 13225,	13266, 13279,	<code>\@mpfourcol@footgroupv@r</code>
13238, 13239,	13280, 13486,	. . . . . 12735, 12760
13252, 13253,	13493, 13511,	<code>\@mpfourcollTRfootnotetext</code>
13278, 13488,	13515, 13522,	. . . . . 12731, 12938
13495, 13509,	13550, 13564,	<code>\@mpfourcolRTLfootnotetext</code>
13517, 13524,	13565, 13578,	. . . . . 12732, 12965
13537, 13538,	13579, 13785,	<code>\@mpfourcolfootnotetext</code>
13551, 13552,	13792, 13810,	. . . . . 12730, 12885
13577, 13787,	13814, 13821,	<code>\@mplistdepth</code> 16078, 16244
13794, 13808,	13849, 13863,	<code>\@mpninecol@LTRfootgroupv@l</code>
13816, 13823,	13864, 13877,	. . . . . 14232, 14257
13836, 13837,	13878, 14084,	<code>\@mpninecol@footgroupv@r</code>
13850, 13851,	14091, 14109,	. . . . . 14230, 14255
13876, 14086,	14113, 14120,	<code>\@mpninecollTRfootnotetext</code>
14093, 14107,	14148, 14162,	. . . . . 14226, 14433
14115, 14122,	14163, 14176,	<code>\@mpninecolRTLfootnotetext</code>
14135, 14136,	14177, 14383,	. . . . . 14227, 14460
14149, 14150,	14390, 14408,	<code>\@mpninecolfootnotetext</code>
14175, 14385,	14412, 14419,	. . . . . 14225, 14380
14392, 14406,	14447, 14461,	<code>\@mppara@LTRfootgroupv@l</code>
14414, 14421,	14462, 14475,	. . . . . 14873,
14434, 14435,	14476, 14682,	14926, 14978, 15029
14448, 14449,	14689, 14707,	<code>\@mppara@footgroupv@r</code>
14474, 14684,	14711, 14718,	. . . . . 14872, 14925
14691, 14705,	14746, 14760,	<code>\@mpparaLTRfootnotetext</code>
14713, 14720,	14761, 14774,	. 14867, 14974, 15236
14733, 14734,	14775, 15184,	<code>\@mpparaRTLfootnotetext</code>
14747, 14748,	15191, 15210,	. . . . . 14868, 15265
14773, 15186,	15214, 15221,	<code>\@mpparafotnotetext</code>
15193, 15208,	15251, 15266,	. 14866, 14972, 15181
15216, 15223,	15267, 15281, 15282	<code>\@mpsevencol@LTRfootgroupv@l</code>
15237, 15238,	<code>\@mpfootnotetext</code> . .	. . . . . 13634, 13659
15252, 15253, 15280	. . . . . 2336,	<code>\@mpsevencol@footgroupv@r</code>
<code>\@mpfootinsv@r</code> . . . .	11678, 11695,	. . . . . 13632, 13657





<code>\@mpsevencolLTRfootnotetext</code>	12706,	12711,	24538,	24539,
..... 13628, 13835	12716,	12717,	24541,	24544,
<code>\@mpsevencolRTLfootnotetext</code>	12741,	12742,	24547,	24555,
..... 13629, 13862	12993,	12999,	24556,	24558,
<code>\@mpsevencolfootnotetext</code>	13005,	13010,	24561,	24564,
..... 13627, 13782	13015,	13016,	24576,	24621,
<code>\@mpsixcol@LTRfootgroupv@l</code>	13040,	13041,	24622,	24623,
..... 13335, 13360	13292,	13298,	24624,	24625,
<code>\@mpsixcol@footgroupv@r</code>	13304,	13309,	24626,	24627,
..... 13333, 13358	13314,	13315,	24628,	24629,
<code>\@mpsixcolLTRfootnotetext</code>	13339,	13340,	24644,	24645,
..... 13329, 13536	13591,	13597,	24646,	24647,
<code>\@mpsixcolRTLfootnotetext</code>	13603,	13608,	24649,	24650,
..... 13330, 13563	13613,	13614,	24652,	24655,
<code>\@mpsixcolfootnotetext</code>	13638,	13639,	24658,	24666,
..... 13328, 13483	13890,	13896,	24667,	24669,
<code>\@mptencol@LTRfootgroupv@l</code>	13902,	13907,	24672,	24675,
..... 14531, 14556	13912,	13913,	24688,	24928,
<code>\@mptencol@footgroupv@r</code>	13937,	13938,	24929,	24930,
..... 14529, 14554	14189,	14195,	24931,	24932,
<code>\@mptencolLTRfootnotetext</code>	14201,	14206,	24933,	24934,
..... 14525, 14732	14211,	14212,	24935,	24936,
<code>\@mptencolRTLfootnotetext</code>	14236,	14237,	24975,	24981,
..... 14526, 14759	14488,	14494,	24988,	24994,
<code>\@mptencolfootnotetext</code>	14500,	14505,	25001,	25005,
..... 14524, 14679	14510,	14511,	25006,	25007,
<code>\@mpthreecol@LTRfootgroupv@l</code>	14535,	14536,	25008,	25010,
..... 12450, 12475	14787,	14793,	25011,	25013,
<code>\@mpthreecol@footgroupv@r</code>	14799,	14804,	25016,	25019,
..... 12448, 12473	14847,	14848,	25027,	25028,
<code>\@mpthreecolLTRfootnotetext</code>	14900,	14901,	25030,	25033,
..... 12444, 12643	14953,	15004,	25036,	25061,
<code>\@mpthreecolRTLfootnotetext</code>	15295,	15306,	25065,	25066,
..... 12445, 12668	15322,	15331,	25067,	25069,
<code>\@mpthreecolfootnotetext</code>	15340,	18334,	25070,	25072,
..... 12443, 12592	24396,	24435,	25075,	25078,
<code>\@mptwocol@LTRfootgroupv@l</code>	24436,	24437,	25086,	25087,
..... 12151, 12176	24438,	24439,	25089,	25092,
<code>\@mptwocol@footgroupv@r</code>	24440,	24441,	25095,	25115,
..... 12149, 12174	24442,	24443,	25118,	25122,
<code>\@mptwocolLTRfootnotetext</code>	24444,	24462,	25162,	25165, 25169
..... 12145, 12352	24463,	24464,		
<code>\@mptwocolRTLfootnotetext</code>	24465,	24466,	<code>\@nameuse</code> .....	9120,
..... 12146, 12379	24467,	24468,	11143,	11193,
<code>\@mptwocolfootnotetext</code>	24469,	24470,	11196,	11242,
..... 12144, 12299	24485,	24486,	12410,	12411,
<code>\@namedef</code> 9122, 12094,	24487,	24488,	12416,	12417,
12130, 12131,	24490,	24491,	12421,	12422,
12155, 12156,	24493,	24496,	12426,	12427,
12407, 12413,	24499,	24507,	12697,	12698,
12419, 12424,	24508,	24510,	12703,	12704,
12429, 12430,	24513,	24516,	12708,	12709,
12454, 12455,	24529,	24534,	12713,	12714,
12694, 12700,	24535,	24536,	12996,	12997,
			13002,	13003,



13007,	13008,	24753,	24757,	23189,	23369,
13012,	13013,	24759,	24773,	23849,	23853,
13295,	13296,	24775,	24777,	23914,	23923,
13301,	13302,	24783,	24801,	23930,	24237,
13306,	13307,	24802,	24804,	24580,	24581,
13311,	13312,	24805,	24815,	24692,	24693,
13594,	13595,	24817,	24820,	24922,	25636,
13600,	13601,	24821,	24823,	25783,	25939,
13605,	13606,	24825,	24826,	25980,	26015,
13610,	13611,	24834,	24836,	26017,	26018,
13893,	13894,	24840,	24841,	26019,	26024,
13899,	13900,	24845,	24849,	26026,	26027,
13904,	13905,	24853,	24854,	26028,	26033,
13909,	13910,	24922,	24955,	26035,	26036,
14192,	14193,	24962,	24967,	26037,	26042,
14198,	14199,	24968,	24975,	26044,	26045,
14203,	14204,	25054,	25061,	26046,	26120,
14208,	14209,	25132,	25199,	26122, 26165,	26429
14491,	14492,	25722, 25756,	26501	\@newlistfalse . . . .	
14497,	14498,			. . . . . 15852, 26490	
14502,	14503,	\@ne . . . . . 137,		\@next . . . . . 4949,	
14507,	14508,	142, 363, 372, 375,		7794, 7795, 7838,	
14790,	14791,	497, 851, 1103,		7839, 7882, 7883,	
14796,	14797,	1353, 1419, 1428,		26351, 26352,	
14801,	14802,	1431, 1432, 1433,		26395, 26396, 26428	
14806,	14807,	1466, 1469, 1470,		\@nextchar . . . . 369,	
15296,	15303,	1471, 2337, 2353,		371, 372, 373,	
15307,	15314,	2369, 2617, 4374,		375, 376, 377, 378,	
15323,	15328,	4379, 4380, 4381,		379, 382, 383, 384,	
15332,	15337,	4959, 5261, 5289,		1425, 1427, 1428,	
15808,	21602,	5324, 5649, 5703,		1429, 1431, 1432,	
21937,	22342,	5757, 6479, 6638,		1433, 1434, 1435,	
22698,	23115,	6709, 6770, 9650,		1436, 1437, 1440,	
23463,	24123,	10102, 11411,		1441, 1442, 1454,	
24397,	24398,	11508, 11969,		1456, 1457, 1522,	
24399,	24402,	12017, 12032,		1523, 1524, 9921,	
24405,	24410,	12057, 15578,		9922, 9923, 23920,	
24411,	24416,	16184, 16199,		23922, 23923,	
24420,	24421,	16214, 16527,		23924, 23925,	
24423,	24424,	17633, 17634,		23926, 23927,	
24426,	24427,	17639, 18073,		23928, 23930,	
24429,	24430,	18080, 18089,		23931, 23932,	
24432,	24433,	18100, 18216,		23933, 23934,	
24440,	24445,	19017, 19094,		23937, 23938, 23939	
24446,	24529,	19357, 19746,		\@nil . . . . . 1507, 1508,	
24576,	24580,	19766, 20567,		1510, 1511, 9910,	
24581,	24593,	20708, 20905,		10832, 10889,	
24603,	24604,	20948, 20952,		17800, 17809,	
24688,	24692,	21134, 21432,		17811, 17823, 24035	
24693,	24714,	21459, 21461,		\@ninecol@LTRfootgroupv@l	
24730,	24733,	21676, 21843,		. . . . . 14224, 14249	
24734,	24738,	22171, 22198,		\@ninecol@footgroupv@r	
24744,	24745,	22200, 22416,		. . . . . 14220, 14245	
24746,	24750,	22604, 22944,		\@ninecolLTRfootfmt	
		22971, 22973,			



.. 14319, 14334,	\@normalfootfmt ...	16554, 16555,
14374, 14443, 14457	.. 11716, 11745,	16571, 16581,
\@ninecolLTRfootnotetext	11761, 11820, 11833	16596, 16603,
..... 14215, 14312	\@notprerr ... 6222, 6237	16604, 16620,
\@ninecolRTLfootfmt	\@nx ..... 124,	16632, 16671,
.. 14346, 14361,	125, 344, 17970, 17971	16683, 16717,
14377, 14470, 14484	\@nxtcol .....	16719, 16730,
\@ninecolRTLfootnotetext	. 15800, 15802, 15843	16755, 16758,
..... 14216, 14339	\@oddfoot .....	16759, 18301,
\@ninecolfootfmt ..	2181, 2186, 2222,	18303, 18305,
.. 14273, 14303,	2227, 4588, 15813,	19159, 19162,
14371, 14401, 14430	15820, 26504, 26521	19163, 19193,
\@ninecolfootnotetext	\@oddhead . 2105, 2185,	19218, 19221,
..... 14214, 14260	2210, 2227, 15812,	19223, 19235,
\@nmbulistfalse .. 25947	15819, 26504, 26520	19259, 19262,
\@nobreakfalse . 558,	\@oldmakefnmark 21551,	19263, 19293,
713, 957, 1196,	21552, 21672,	19318, 19321,
9246, 9423, 9710,	21673, 22291,	19323, 19333,
11567, 15470,	22292, 22412,	19812, 19815,
20422, 20794,	22413, 23064,	19820, 26196,
21009, 21194,	23065, 23185, 23186	26199, 26200,
24184, 24188, 24723	\@onelevel@sanitize 4931	26214, 26226,
\@nobreaktrue .. 557,	\@onlypreamble ....	26243, 26246,
712, 956, 1195,	... 4360, 14840,	26247, 26261,
9245, 9422, 9709,	14841, 14845, 15443	26271, 26290,
11566, 15469,	\@openbib@code ....	26292, 26306,
20421, 20793,	.. 619, 754, 1017,	26308, 26319, 26548
21008, 21193,	1267, 5246, 5257,	\@outputdblcol 15799,
24183, 24187, 24722	9289, 9477, 9786,	26284, 26285, 26286
\@nocnterr ..... 341	11350, 11621,	\@outputpage .....
\@nocounterr ..... 340	15525, 20470,	.. 10180, 10184,
\@nodocument ..... 4928	20864, 21058,	10239, 10243,
\@noitemerr .....	21261, 21793,	15708, 15711,
... 95, 308, 628,	22554, 23319, 24074	15746, 15750,
760, 1023, 1273,	\@otarlinesep 23809, 23815	15827, 15831,
2675, 5253, 9295,	\@outerparskip .... 9163	15836, 15847,
9483, 9795, 11356,	\@outputbox .....	16584, 16588,
11630, 15531,	.. 10137, 10140,	16637, 16641,
17904, 19675,	10141, 10155,	18283, 18295,
20476, 20870,	10167, 10172,	19241, 19246,
21067, 21270,	10174, 10200,	19338, 19343,
21810, 21817,	10203, 10204,	19804, 19805,
22571, 22578,	10218, 10228,	26231, 26235,
23336, 23343, 24083	10231, 10233,	26274, 26278, 26485
\@nonlatinfalse 4136,	15354, 15356,	\@ovbtrue ..... 15636
4247, 18107, 18151	15357, 15362,	\@ovdx ..... 15649, 15657
\@nonlatintrue . 4137,	15377, 15379,	\@ovdy ..... 15650, 15658
4248, 18107, 18151	15393, 15403,	\@ovhorz ... 15655, 15656
\@normalLTRfootfmt	15680, 15683,	\@ovltrue ..... 15636
. 11728, 11807, 11845	15696, 15705,	\@ovri ..... 15648
\@normalRTLfootfmt	15716, 15719,	\@ovro 15648, 15657, 15658
.. 11722, 11776,	15733, 15743,	\@ovrtrue ..... 15636
11792, 11857, 11870	15825, 15830,	\@ovttrue ..... 15636
\@normalcr ..... 18363	15877, 16547,	\@ovvert ... 15653, 15654



<code>\@ovxx</code> . . . . .	15638, 15639, 15642, 15649, 15654, 15655, 15659, 15660	12985, 13201, 13230, 13243, 13257, 13270, 13284, 13500, 13529, 13542, 13556, 13569, 13583, 13799, 13828, 13841, 13855, 13868, 13882, 14098, 14127, 14140, 14154, 14167, 14181, 14397, 14426, 14439, 14453, 14466, 14480, 14696, 14725, 14738, 14752, 14765, 14779, 15198, 15228, 15242, 15257, 15271, 15286, 15301, 15312, 15852, 16129, 16146, 16162, 16191, 16206, 16221, 16239, 19142, 19356, 25998, 26370, 26414, 26491	103, 233, 548, 565, 643, 658, 687, 690, 703, 721, 728, 907, 914, 917, 930, 947, 965, 1159, 1170, 1173, 1186, 1204, 1212, 5170, 5256, 7250, 7251, 7252, 7259, 7260, 7261, 7263, 7264, 8469, 8470, 8471, 8473, 8474, 8540, 9210, 9221, 9224, 9237, 9253, 9260, 9387, 9398, 9401, 9414, 9430, 9437, 9598, 9701, 9716, 11290, 11304, 11559, 15171, 15175, 15179, 15461, 15476, 16427, 16465, 17913, 17933, 19408, 19420, 19665, 20368, 20397, 20400, 20413, 20429, 20436, 20623, 20769, 20772, 20785, 20801, 20808, 21001, 21015, 21083, 21185, 21200, 21489, 21496, 21505, 21568, 21594, 21639, 22050, 22068, 22086, 22087, 22104, 22105, 22114, 22115, 22124, 22135, 22229, 22236, 22245, 22308, 22334, 22379, 22812, 22831, 22857, 22858, 22877, 22878, 22887, 22888, 22897, 22908, 23002, 23009, 23018, 23081, 23107, 23152, 23577, 23596, 23622, 23623, 23642,	
<code>\@ovyy</code> . . . . .	15640, 15641, 15642, 15650, 15656			
<code>\@pagedp</code> . . . . .	26457, 26467			
<code>\@pageht</code> . . . . .	10261, 10267, 15419, 15420, 15421, 26440, 26447			
<code>\@par</code> . . . . .	24857			
<code>\@para@LTRfootgroupv@l</code> . . . . .	14864, 14917, 14967, 15018			
<code>\@para@footgroupv@r</code> . . . . .	14858, 14911			
<code>\@para@footstartv@l</code> . . . . .	14865, 14918, 14968, 15019			
<code>\@para@footstartv@r</code> . . . . .	14859, 14912			
<code>\@paraLTRfootfmt</code> . . . . . . .	15118, 15134, 15173, 15247, 15262			
<code>\@paraLTRfootnotetext</code> . . . . .	14851, 14960, 15109			
<code>\@paraRTLfootfmt</code> . . . . . . .	15148, 15164, 15177, 15276, 15291			
<code>\@paraRTLfootnotetext</code> . . . . .	14852, 15139			
<code>\@parafootfmt</code> . . . . . . . . . .	15069, 15100, 15169, 15203, 15233			
<code>\@parafootnotetext</code> . . . . .	14850, 14958, 15054			
<code>\@parboxrestore</code> . . . . .	42, 56, 72, 255, 269, 284, 2294, 2311, 2328, 2344, 2360, 2376, 4998, 7545, 7813, 7857, 7901, 9840, 11816, 11829, 11841, 11853, 11866, 11967, 12316, 12345, 12358, 12372, 12385, 12399, 12609, 12637, 12649, 12662, 12674, 12687, 12902, 12931, 12944, 12958, 12971,			
<code>\@parboxto</code> . . . . .	26001, 26008			
<code>\@parmoderr</code> . . . . .	4947, 7791, 7835, 7879, 26348, 26392			
<code>\@part</code> . . . . .	588, 11314			
<code>\@pboxswfalse</code> . . . . .	16230, 25984			
<code>\@pboxswtrue</code> . . . . .	26006			
<code>\@pdfm@mark</code> . . . . . . . . . .	17641, 17657, 17691, 17722, 17751, 17826, 17831, 17842, 17847, 17858, 17864, 17875, 17881			
<code>\@pdfremotestartview</code> . . . . .	17672			
<code>\@phone</code> . . . . .	5131, 10664, 10762			
<code>\@photo</code> . . . . .	5136, 10637, 10639, 10768, 10770			
<code>\@photowidth</code> . . . . .	5135, 5136, 10639, 10735			
<code>\@pkgextension</code> . . . . . . . . . .	6860, 6892, 6898, 7056, 7059, 7077			
<code>\@plus</code> . . . . .	24,			



23643,	23652,	\@preamble . . . .	411,	\@preamsevenfmt	13768,
23653,	23662,		417, 430, 441,		13774, 13777, 13780
23673,	23720,		1479, 1487, 18220,	\@preamsixfmt .	13469,
23986,	24015,		23788, 23790,		13475, 13478, 13481
24139,	24416,		23797, 23827,	\@preamtenfmt .	14665,
24584,	24587,		23828, 23836,		14671, 14674, 14677
24591,	24696,		26102, 26104, 26113	\@preamthreefmt	12578,
24699,	24703,	\@preameightfmt	14067,		12584, 12587, 12590
24778,	25115,		14073, 14076, 14079	\@preamtwofmt .	12285,
25118,	25122,	\@preamerr . . . . .			12291, 12294, 12297
25243,	25427, 26133		. 385, 1443, 1473,	\@printcites . . . . .	20255
			23940, 26111, 26124	\@pstrickserr . . . . .	20189
\@pnumwidth . .	13, 15,	\@preamfivefmt	13170,	\@ptsize . . . . .	5034,
	218, 220, 551, 552,		13176, 13179, 13182		5035, 5036, 5037, 5044
	554, 568, 569, 573,	\@preamfnctext .	11740,	\@publisher . .	8632, 8685
	706, 707, 709, 731,		11756, 11771,	\@publishers . .	21595,
	732, 736, 933, 934,		11787, 11802,		21740, 22335,
	938, 950, 951, 953,		11962, 12188,		22480, 23108, 23253
	1189, 1190, 1192,		12218, 12234,	\@quote . .	5137, 10643,
	1215, 1216, 1220,		12249, 12261,		10645, 10772, 10774
	9240, 9241, 9243,		12276, 12487,	\@quotebox . . . . .	20254
	9263, 9264, 9268,		12516, 12531,	\@quotecolour . . . . .	
	9417, 9418, 9420,		12545, 12556,		. . . 5099, 5116, 5226
	9440, 9441, 9445,		12570, 12774,	\@r@msize . . . . .	23822
	9704, 9705, 9707,		12804, 12820,	\@raggedtwoe@abdhook	
	9719, 9720, 9724,		12835, 12847,		. 20329, 20334, 20344
	9985, 9990, 9991,		12862, 13073,	\@raggedtwoe@document@opt	
	11293, 11294,		13103, 13119,		. 20328, 20332, 20350
	11298, 11307,		13134, 13146,	\@raggedtwoe@everyselectfont	
	11308, 11310,		13161, 13372,		. . . . . 20268,
	11561, 11562,		13402, 13418,		20281, 20294, 20305
	11564, 15464,		13433, 13445,	\@raggedtwoe@footmisctrue	
	15465, 15467,		13460, 13671,		. . . . . 20331
	15479, 15480,		13701, 13717,	\@raggedtwoe@gnewline	
	15484, 17946,		13732, 13744,		. 20261, 20274, 20287
	17948, 19428,		13759, 13970,	\@raggedtwoe@raggedrightboxes@opt	
	20416, 20417,		14000, 14016,		. . . . . 20307,
	20419, 20439,		14031, 14043,		20326, 20330, 20347
	20440, 20444,		14058, 14269,	\@raggedtwoe@samed@gnewline	
	20788, 20789,		14299, 14315,		. . . . . 20298
	20791, 20811,		14330, 14342,	\@raggedtwoe@samedcr	
	20812, 20816,		14357, 14568,		. . . . . 20258,
	21003, 21004,		14598, 14614,		20271, 20284, 20297
	21006, 21018,		14629, 14641,	\@raggedtwoe@spaceskipfalse	
	21019, 21023,		14656, 15064,		. . . . . 20304
	21188, 21189,		15095, 15113,	\@raggedtwoe@spaceskiptrue	
	21191, 21203,		15129, 15143, 15159		. 20267, 20280, 20293
	21204, 21208,	\@preamfourfmt	12871,	\@rc@ifdefinable . .	
	24042, 24051,		12877, 12880, 12883		. . . . . 5635, 5893
	24053, 24446,	\@preamninefmt	14366,	\@regtocline . . .	684,
	24595, 24596,		14372, 14375, 14378		722, 739, 911,
	24608, 24707,	\@preamnormalfmt . .			941, 966, 1167,
	24708, 24717,		. . . . . 11712,		1205, 1223, 9218,
	24981, 24988,		11717, 11723, 11729		9254, 9272, 9395,
25334, 25439, 26145					



9431, 9449, 20394,	\@secondoftwo . . . . .	22206, 22967, 22979
20430, 20448,	4225, 4231, 4237,	\@settab . . . . . 9130
20766, 20802, 20820	5497, 5501, 5509,	\@sevenscolLTRfootgroupv@l
\@reinserts . . . . . 15434	5513, 5521, 5525,	. . . . . 13626, 13651
\@rememsize 23819, 23822	5531, 5539, 5552,	\@sevenscol@footgroupv@r
\@removefromreset .	5561, 5570, 5579,	. . . . . 13622, 13647
. . . . . 19684, 19686	5585, 5588, 5599,	\@sevenscolLTRfootfmt
\@reqcolroom . . . . .	5604, 5611, 5991,	. . 13721, 13736,
. . 10261, 10262,	6001, 6002, 6003,	13776, 13845, 13859
10263, 10264,	6004, 6010, 6019,	\@sevenscolLTRfootnotetext
10266, 10267,	6025, 6049, 6069,	. . . . . 13617, 13714
10268, 10269,	6097, 6149, 6161,	\@sevenscolRTLfootfmt
10270, 10271, 10511	6162, 6171, 15444	. . 13748, 13763,
\@resetactivechars	\@secpenalty . . . . . 5,	13779, 13872, 13886
. . . . . 15850, 26488	210, 547, 564, 702,	\@sevenscolRTLfootnotetext
\@resetdyn@mics . . 15838	720, 727, 929,	. . . . . 13618, 13741
\@resetst@tics . . . 15837	946, 964, 1185,	\@sevenscolfootfmt .
\@restonecolfalse .	1203, 1211, 11289,	. . 13675, 13705,
. . . 98, 228, 633,	11303, 17938,	13773, 13803, 13832
649, 898, 1150,	24027, 24164,	\@sevenscolfootnotetext
9201, 9378, 9588,	24219, 24583,	. . . . . 13616, 13662
17908, 20359,	24590, 24695, 24702	\@sharp . . . . . 423,
20614, 21073, 24097	\@sectiontitlecolour	1481, 1482, 1483,
\@restonecoltrue . .	. . . . . 5100, 5117	1489, 1490, 1491,
. . . 98, 228, 635,	\@seesize . . 23819, 23822	17800, 17806,
651, 900, 1152,	\@setcol . . . . . 15844	18212, 23793,
9203, 9380, 9590,	\@setcolbox 15805, 15841	23828, 23834, 26108
17908, 20361,	\@setcopyright 112, 17958	\@sixcolLTRfootgroupv@l
20616, 21075, 24099	\@setfontsize . . . . .	. . . . . 13327, 13352
\@resumename . . 5069, 5125	7249, 7258, 8468,	\@sixcol@footgroupv@r
\@revlabeltrue . 784,	8478, 8479, 8480,	. . . . . 13323, 13348
1036, 1286, 9328,	8481, 8482, 8483, 8484	\@sixcolLTRfootfmt
9505, 20500, 20639	\@setfipsbit . . . . .	. . 13422, 13437,
\@rightcolumn . 19185,	. . . 4963, 4966, 4969	13477, 13546, 13560
19190, 19191,	\@setmarks . . . 10147,	\@sixcolLTRfootnotetext
19200, 19201,	10149, 10179,	. . . . . 13318, 13415
19209, 19213,	10210, 10212,	\@sixcolRTLfootfmt
19219, 19285,	10238, 15689,	. . 13449, 13464,
19290, 19291,	15691, 15708,	13480, 13573, 13587
19300, 19301,	15725, 15727,	\@sixcolRTLfootnotetext
19309, 19313, 19319	15745, 16561,	. . . . . 13319, 13442
\@rightskip . . 18359,	16563, 16583,	\@sixcolfootfmt . . .
20263, 20264,	16610, 16612,	. . 13376, 13406,
20276, 20277,	16636, 19169,	13474, 13504, 13533
20289, 20290,	19171, 19240,	\@sixcolfootnotetext
20300, 20301, 26049	19269, 19271,	. . . . . 13317, 13363
\@rjfieldfalse . . . 26475	19337, 26206,	\@skip@bove 23813, 23815
\@runbordercolor . .	26208, 26230,	\@spaces . . . . .
. . . . . 17697, 17699	26253, 26255, 26273	. 23851, 23892, 23897
\@runcolor . . . . . 17713	\@setminipage . . 7547,	\@spart . . 607, 609, 11333
\@s@size . . . . . 23822	16246, 16521, 19144	\@specialpagefalse
\@sarray . . . . . 23781	\@setpar . . . . . 20902,	. . . . . 15807, 26501
\@savemarbox . . . . . 26469	20945, 21455,	\@specialstyle . . . . .
	21466, 22194,	. . . . . 15808, 26501



<code>\@stabarray</code> . . . . .	23777	<code>\@tabcr</code> . . . . .	9133, 9143	16899,	16902,
<code>\@stabular</code> . . . . .	23773	<code>\@tabminus</code> . . . . .	9131	16959,	16960,
<code>\@star@or@long</code> .	5630,	<code>\@tabplus</code> . . . . .	9130	16961,	16962,
	5863, 5887, 5898	<code>\@tabular</code> 387, 4864, 26086		17419,	17423,
<code>\@startcolumn</code> . . . .	16646	<code>\@tabularcr</code> . . . . .		17426,	17438,
<code>\@startdblcolumn</code> . .		... 4878, 18202,		17457,	17461,
... . . . .	10183,	23777, 25912, 26090		17464,	17476,
	10185, 10242,	<code>\@tarlinesep</code> . .	23815,	17969,	17972,
	10244, 15709,	23816, 23817,		18264,	18265,
	15711, 15749,	23818, 23821, 23823		18267,	18268,
	15750, 15834,	<code>\@temp@bibkey</code> . .	8002,	19687,	19688,
	15836, 16587,	8021, 8040, 8068		19689,	19692,
	16589, 16640,	<code>\@temp@bibkeyx</code> . . . .		19699,	19705,
	16642, 19244,	... 8007, 8008,		20547,	20549,
	19247, 19341,	8010, 8011, 8012,		20551,	20555,
	19344, 26234,	8013, 8026, 8027,		20688,	20690,
	26236, 26277, 26279	8029, 8030, 8031,		20692,	20696,
<code>\@startfield</code> . . . . .	9172	8032, 8045, 8046,		21279,	21280,
<code>\@startpbox</code> . . .	1456,	8048, 8049, 8050,		21322,	21323,
	1457, 1522, 1523,	8051, 8077, 8078,		21454,	21795,
	1524, 9921, 9922,	8080, 8081, 8082, 8083		21798,	22193,
	9923, 18199,	<code>\@temp@last@bibkey</code>		22556,	22559,
	18200, 18206,	... 8001, 8002,		22966,	23321,
	23791, 23829, 26105	8008, 8020, 8021,		23324,	23900,
<code>\@startsection</code>	23, 17932	8027, 8039, 8040,		23902,	23907,
<code>\@starttoc</code> . . .	8435, 8443	8046, 8067, 8068, 8078		23909,	25425,
<code>\@stopfield</code> 9137, 9152,		<code>\@tempa</code> . . . . .	123,	25442,	25446,
	9156, 9184, 26475	126, 133, 134, 135,		25447,	25448,
<code>\@stopline</code> . .	9156, 26475	136, 831, 833, 835,		25457,	25471,
<code>\@stpelt</code> .	6344, 6348, 6350	839, 1083, 1085,		25647,	25650,
<code>\@strip</code> . . . . .	19353	1087, 1091, 1333,		25656, 25660, 25674	
<code>\@subjclass</code> . . . . .	334	1335, 1337, 1341,	<code>\@tempb</code> . . . . .	5329,	
<code>\@subject</code> 21576, 21577,		2399, 2425, 2451,		5330, 5332, 5333,	
	21739, 22316,	5291, 5298, 5329,		16823, 16824,	
	22317, 22479,	5330, 5333, 5453,		16864, 16866,	
	23089, 23090, 23252	5454, 5457, 5459,		16894, 16896,	
<code>\@subsectioncolour</code>		5461, 5462, 5465,		16897, 16899,	
... . . . .	5102, 5118	5467, 5469, 5470,		16902, 19691,	
<code>\@subtitle</code> . . .	21582,	5473, 5475, 5477,		19692, 19698,	
	21735, 22322,	5478, 5481, 5483,		19699, 19704, 19705	
	22475, 23095, 23248	5650, 5660, 5666,	<code>\@tempboxa</code> . . . .	2111,	
<code>\@tabacol</code> 4876, 18197,		5678, 5685, 5691,		2112, 2113, 2114,	
	23775, 25910, 26088	5704, 5714, 5720,		2115, 2215, 2216,	
<code>\@tabarray</code> . . . .	393,	5732, 5739, 5745,		2217, 2218, 2219,	
	446, 4878, 18184,	5758, 5771, 5777,		2481, 2498, 2499,	
	18186, 19721,	5795, 5805, 5811,		2500, 2501, 2502,	
	19723, 25905,	12021, 12028,		2503, 2504, 2505,	
	25912, 26090, 26116	15637, 16823,		2544, 2546, 2547,	
<code>\@tabclassiv</code> . . . . .		16824, 16825,		2548, 2553, 2566,	
... 4878, 18198,		16826, 16863,		7797, 7841, 7885,	
	23777, 25912, 26090	16866, 16867,		10277, 10278,	
<code>\@tabclassz</code> . . . . .		16873, 16884,		10855, 10856,	
	1484, 4877, 18198,	16885, 16891,		10857, 10858,	
	23776, 25911, 26089	16896, 16897,		10860, 10909,	



10910,	10911,	19864,	21647,	10908,	10911,
10912,	10914,	21649,	22387,	10912,	10913,
12092,	15648,	22389,	23160,	10925,	10926,
15652,	15660,	23162,	23887,	10927,	11143,
15661,	15784,	25233,	25234,	11144,	11149,
15785,	15786,	25235,	25254,	11150,	11151,
16235,	16259,	25255,	25256,	11152,	11153,
16364,	16409,	25258,	25260,	11268,	11270,
16416,	16426,	25342,	25343,	11272,	11291,
16429,	16433,	25344,	26429,	11296,	11306,
16435,	16441,	26431,	26434,	14837,	14876,
16475,	16477,	26436,	26438,	14877,	14880,
16483,	16496,	\@tempcntb . . . . .		14881,	14887,
16500,	16501,	2528,	2529,	2531,	14888,
16789,	16885,	4977,	4978,	4979,	14889,
16902,	17051,	19772,	19773,		14890,
17232,	17234,	19780,	19784,	19797	14892,
18110,	18115,	\@tempdima . . . . . 8,		14929,	14930,
18119,	18229,	10,	12,	14,	14933,
18230,	18233,	215,	217,	219,	14934,
19070,	19073,	402,	404,	549,	14940,
19077,	19079,	571,	692,	705,	14941,
19085,	19087,	734,	919,	920,	14942,
19088,	19117,	936,	949,	1175,	14943,
19118,	19122,	1188,	1213,	1218,	14945,
19953,	19954,	1501,	1502,	1534,	14981,
19957,	23874,	1535,	1536,	2198,	14982,
23894,	25386,	2515,	2519,	2520,	14985,
25389,	25394,	2532,	2533,	2535,	14992,
25398,	25402,	2558,	2560,	2571,	14993,
25406,	25410,	2573,	3593,	3594,	14994,
25414,	25418,	5031,	5033,	8456,	14995,
25422,	26071,	8457,	9226,	9239,	15032,
26072,	26127,	9261,	9266,	9403,	15033,
26128,	26129,	9416,	9438,	9443,	15036,
26130,	26354,	9702,	9717,	9722,	15043,
26398,	26536,	9933,	9934,	9935,	15044,
26543,	26544,	9983,	9988,	10801,	15045,
26573,	26574,	10802,	10803,		15046,
\@tempc 16865,	16867,	10804,	10822,		15048,
\@tempcnta . . . . .		10823,	10824,		15364,
1447,	1506,	10825,	10831,		15366,
1508,	1510,	10833,	10834,		15463,
2517,	2518,	10838,	10839,		15477,
4951,	4957,	10840,	10841,		15482,
4972,	4973,	10842,	10850,		15649,
4980,	5306,	10854,	10857,		15650,
5312,	9908,	10858,	10859,		15653,
10830,	10887,	10873,	10874,		15654,
19771,	19773,	10875,	10888,		16233,
19774,	19780,	10890,	10891,		16237,
19784,	19797,	10895,	10896,		16758,
19853,	19855,	10897,	10898,		16760,
19859,	19862,	10899,	10905,		16882,
					16884,
					16889,
					16891,
					16892,
					16894,
					16907,
					16912,
					16917,
					16921,
					17941,
					17943,
					17945,
					17947,
					18194,
					18204,
					18209,
					19188,
					19192,
					19288,
					19292,
					19353,
					19378,
					19401,
					19413,
					19414,
					19425,
					19426,
					19775,
					20402,
					20415,
					20437,
					20442,
					20774,
					20787,
					20809,
					20814,
					20903,





20904,	20905,	25456,	25463,	25307,	25309,
20946,	20947,	25609,	25610,	25612,	25613,
20948,	21016,	25629,	25640,	25615,	25617,
21021,	21186,	25641,	25642,	25620,	25621,
21201,	21206,	25643,	25655,	25623,	25626,
21324,	21325,	25658,	25664,	25640,	25641,
21456,	21457,	25665,	25997,	25642,	25646,
21459,	21461,	25998,	26138,	25659,	25663,
21467,	21468,	26139,	26439,	25664,	26000, 26001
21472,	21474,	26440,	26441,	\@tempdimc	2527, 2528,
21868,	21869,	26442,	26445,	2536,	2537, 2554,
22195,	22196,	26448,	26451,	2567,	9903, 21453,
22198,	22200,	26453, 26476, 26477		21464,	21465,
22207,	22208,	\@tempdimb	.....	21479,	22192,
22212,	22214,	2516, 2517, 2521,		22204,	22205,
22629,	22630,	2524, 2525, 2530,		22219,	22965,
22968,	22969,	2531, 2532, 2533,		22977,	22978, 22992
22971,	22973,	2538, 2541, 2542,		\@tempskipa	... 9162,
22980,	22981,	2544, 2545, 2554,		9163, 9164,	11977,
22985,	22987,	2559, 2560, 2567,		11978,	11979,
23394,	23395,	2572, 2573, 9902,		12001,	12002,
23820,	23823,	10358,	10378,	12003,	15317, 15318
23825,	23888,	10801,	10802,	\@tempswafalse	....
23947,	23948,	10822,	10823,	....	1989, 1990,
23949,	24174,	10874,	10876,	10842,	10899,
24178,	24205,	10879,	10926,	11968,	16830,
24209,	24228,	10928,	10931,	21605,	22345,
24232,	24245,	11146,	11149,	23118,	25694, 25737
24249,	24262,	14878,	14879,	\@tempwatrue	.. 1989,
24266,	24279,	14880,	14931,	10836,	10893,
24283,	24296,	14932,	14933,	11970,	21601,
24300,	24313,	14983,	14984,	22341,	23114, 26188
24317,	24331,	14985,	15034,	\@temptokena	121, 125,
24335,	24350,	15035,	15036,	17967,	17971, 19839
24354,	24370,	15642,	15643,	\@tempx	..... 9064,
24374,	24405,	15644,	15645,	9065,	17497, 17509
24409,	24593,	15647,	16883,	\@tempxi	..... 9067,
24599,	24705,	16884,	16890,	9068,	17528, 17540
24745,	24749,	16891,	16893,	\@tempxii	..... 9070,
24752,	24756,	16894,	19353,	9071,	17559, 17571
24759,	24761,	19378,	21469,	\@tempy	..... 4884, 4885
24801,	24804,	21470,	21472,	\@tempyi	..... 4887, 4888
24805,	24809,	21474,	22209,	\@tempyii	.... 4890, 4891
25250,	25252,	22210,	22212,	\@tencol@LTRfootgroupv@l	
25281,	25284,	22214,	22982,	.....	14523, 14548
25291,	25294,	22983,	22985,	\@tencol@footgroupv@r	
25298,	25303,	22987,	23820,	.....	14519, 14544
25306,	25318,	23823,	23825,	\@tencolLTRfootfmt	
25351,	25353,	25251,	25257,	..	14618, 14633,
25354,	25357,	25259,	25264,	14673,	14742, 14756
25360,	25364,	25266,	25269,	\@tencolLTRfootnotetext	
25371,	25373,	25273,	25277,	.....	14514, 14611
25432,	25433,	25285,	25287,	\@tencolRTLfootfmt	
25446,	25448,	25288,	25301,	..	14645, 14660,



14676, 14769, 14783	20718, 20726,	12849, 12864,
\@tencolRTLfootnotetext	20921, 20929,	12904, 12933,
..... 14515, 14638	20962, 20970,	12946, 12960,
\@tencolfootfmt ...	21108, 21116,	12973, 12987,
.. 14572, 14602,	21144, 21152,	13075, 13105,
14670, 14700, 14729	21598, 21617,	13121, 13136,
\@tencolfootnotetext	21640, 21721,	13148, 13163,
..... 14513, 14559	21731, 22338,	13203, 13232,
\@testopt ..... 5865,	22357, 22380,	13245, 13259,
5883, 18191, 18192	22461, 22471,	13272, 13286,
\@testpach 362, 1418,	23111, 23130,	13374, 13404,
1463, 23913, 26117	23153, 23234, 23244	13420, 13435,
\@textbottom .. 15359,	\@thefnmark .. 44, 58,	13447, 13462,
16761, 21489,	74, 257, 271, 286,	13502, 13531,
21496, 22229,	492, 495, 785, 847,	13544, 13558,
22236, 23002, 23009	849, 1037, 1101,	13571, 13585,
\@textsuperscript .	1287, 1349, 1351,	13673, 13703,
.. 492, 495, 785,	2296, 2313, 2330,	13719, 13734,
847, 849, 1037,	2346, 2362, 2378,	13746, 13761,
1101, 1287, 1349,	2406, 2412, 2432,	13801, 13830,
1351, 4618, 4621,	2438, 2458, 2464,	13843, 13857,
8107, 8109, 9329,	4618, 4621, 4907,	13870, 13884,
9506, 9645, 9648,	4915, 4923, 8107,	13972, 14002,
11406, 11409,	8109, 8143, 8161,	14018, 14033,
11503, 11506,	8179, 8205, 8211,	14045, 14060,
15573, 15576,	8234, 8240, 8263,	14100, 14129,
19013, 20501,	8269, 9085, 9092,	14142, 14156,
20563, 20565,	9099, 9329, 9506,	14169, 14183,
20640, 20704,	9645, 9648, 11406,	14271, 14301,
20706, 20900,	11409, 11503,	14317, 14332,
20907, 20943,	11506, 11743,	14344, 14359,
20950, 21129, 21132	11759, 11774,	14399, 14428,
\@texttop .. 15355, 16757	11790, 11805,	14441, 14455,
\@tfor ..... 4952, 15637	11818, 11831,	14468, 14482,
\@thanks ... 471, 479,	11843, 11855,	14570, 14600,
507, 515, 816, 822,	11868, 11907,	14616, 14631,
861, 867, 1068,	11911, 11913,	14643, 14658,
1074, 1113, 1119,	11919, 11923,	14698, 14727,
1318, 1324, 1363,	11925, 11931,	14740, 14754,
1369, 4623, 4629,	11935, 11937,	14767, 14781,
9360, 9366, 9537,	12190, 12220,	15066, 15097,
9543, 9624, 9632,	12236, 12251,	15115, 15131,
9660, 9668, 11387,	12263, 12278,	15145, 15161,
11393, 11421,	12318, 12347,	15200, 15230,
11427, 11482,	12360, 12374,	15244, 15259,
11490, 11518,	12387, 12401,	15273, 15288,
11526, 15554,	12489, 12518,	15573, 15576,
15560, 15588,	12533, 12547,	16095, 16100,
15594, 16261,	12558, 12572,	16104, 16109,
16275, 16278,	12611, 12639,	16131, 16148,
19006, 19029,	12651, 12664,	16164, 16193,
20532, 20538,	12676, 12689,	16208, 16223,
20577, 20583,	12776, 12806,	16266, 16271,
20671, 20679,	12822, 12837,	16281, 16286,



16322,	16326,	794, 796, 824, 869,	..... 25590
16328,	16334,	882, 1046, 1048,	\@todonotes@MissingFigureText
16338,	16340,	1076, 1121, 1134,	..... 25567
16346,	16350,	1296, 1298, 1326,	\@todonotes@MissingFigureUp
16352,	16772,	1371, 1385, 1396,	..... 25589
17279,	17290,	4632, 5067, 5128,	\@todonotes@author
17301,	17312,	8640, 8725, 9338,	..... 25500,
17430,	17468,	9340, 9368, 9515,	25511, 25536, 25554
17501,	17532,	9517, 9545, 9614,	\@todonotes@currentfigcolor
17563,	17626,	9635, 9671, 9685,	..... 25571
17929,	20501,	10753, 11377,	\@todonotes@currentfigheight
20563,	20565,	11396, 11430,	..... 25572
20640,	20704,	11442, 11472,	\@todonotes@currentfigwidth
20706,	20900,	11493, 11529,	..... 25572,
20907,	20943,	11543, 15544,	25574, 25584, 25587
20950, 21129, 21132		15563, 15597,	\@todonotes@drawInlineNote
\@thefoot .... 15813,		15609, 19007,	..... 25495
15816, 15820,		20510, 20512,	\@todonotes@drawLineToLeftMargin
26504, 26510,		20540, 20585,	..... 25523, 25526
26518, 26521, 26556		20598, 20649,	\@todonotes@drawLineToRightMargin
\@thehead .... 15812,		20651, 20681,	..... 25523, 25526
15815, 15819,		20728, 20744,	\@todonotes@drawMarginNote
26504, 26510,		20755, 20911,	. 25522, 25525, 25529
26517, 26520, 26540		20932, 20973,	\@todonotes@drawMarginNoteWithLine
\@themargin .. 15869,		20987, 21098,	..... 25517
16927, 16929,		21119, 21155,	\@todonotes@ifdisabled
16934, 16936,		21169, 21580,	..... 25596
16940, 16942,		21734, 22320,	\@todonotes@sizecommand
26506, 26508,		22474, 23093, 23247	..... 25500,
26512, 26514, 26533		\@titlecolour . 5097, 5114	25502, 25509,
\@thm ..... 19728, 19749		\@titlehead .....	25511, 25513,
\@thmcountersep ...		.. 21569, 21571,	25536, 25538,
..... 360, 25930		21738, 22309,	25550, 25553,
\@threecol@LTRfootgroupv@l		22311, 22478,	25554, 25556, 25559
..... 12442, 12467		23082, 23084, 23251	\@todonotes@text ..
\@threecol@footgroupv@r		\@titlepageiscoverpagefalse	.. 25500, 25502,
..... 12438, 12463		. 21520, 22260, 23033	25511, 25513,
\@threecol@LTRfootfmt		\@tocextra .....	25536, 25538,
.. 12535, 12549,		.. 24123, 24124,	25551, 25557, 25560
12586, 12653, 12666		24128, 24130, 24133	\@todonotes@textwidth
\@threecol@LTRfootnotetext		\@tocline .. 2, 207, 17935	..... 25534
..... 12433, 12528		\@tocpagenum 15, 220, 17948	\@toodeep ... 2616, 25937
\@threecol@RTLfootfmt		\@tocrmarg ... 19397,	\@topnum ... 111, 324,
.. 12560, 12574,		19409, 19421,	504, 858, 1110,
12589, 12678, 12691		20343, 24169,	1360, 8718, 9657,
\@threecol@RTLfootnotetext		24200, 24223,	11418, 11515,
..... 12434, 12553		24240, 24257,	15585, 17957,
\@threecol@footfmt .		24274, 24291,	19026, 20574,
.. 12491, 12520,		24308, 24326,	20715, 20959, 21141
12583, 12613, 12641		24345, 24365,	\@topsep ... 19742, 19762
\@threecol@footnotetext		24400, 24451,	\@topsepadd .....
..... 12432, 12478		24994, 25001,	. 4795, 19743, 19763
\@title ..... 330,		25311, 25428, 26134	\@totalleftmargin .
461, 482, 518, 532,		\@todonotes@MissingFigureDown	..... 16511,



16515, 16518,	\@unrecurse 23810, 23813	26218, 26267, 26467
16527, 18358,	\@uppertitleback ..	\@x ..... 9122, 9123
19745, 19746,	.. 21604, 21611,	\@x@sf ..... 8116,
19765, 19766,	21620, 21655,	8121, 8127, 8130
20317, 25956,	21741, 22344,	\@xLTRfootnote ....
25958, 25964,	22351, 22360,	.... 4872, 4994,
25966, 25970,	22395, 22481,	8963, 8974, 9180,
25972, 25976,	23117, 23124,	9194, 16103, 16106
25978, 25980,	23133, 23168, 23254	\@xLTRfootnotenext
26015, 26017,	\@urlbordercolor ..	..... 4871,
26018, 26019,	..... 17728, 17730	4993, 8962, 8973,
26024, 26026,	\@urlcolor ..... 17742	9179, 9193, 16265,
26027, 26028,	\@viiipt ..... 7258,	16268, 17298, 23860
26033, 26035,	8478, 19783, 19796	\@xRTLfootnote ....
26036, 26037,	\@viipt 8478, 19783, 19796	.... 4874, 4996,
26042, 26044,	\@viper ..... 10186,	8965, 8976, 9182,
26045, 26046, 26476	10188, 10190,	9196, 16094, 16097
\@traditionalpoem .	10245, 10247,	\@xRTLfootnotenext
..... 9013, 9105	10249, 10263,	..... 4873,
\@trivlist ... 19739,	10270, 10514,	4995, 8964, 8975,
19759, 21431,	10565, 19354,	9181, 9195, 16280,
22170, 22943, 25949	19369, 19371, 19376	16283, 17287, 23861
\@twocol@LTRfootgroupv@l	\@viperoutput 10192, 10251	\@xaddress ..... 331
..... 12143, 12168	\@vipt ..... 8479	\@xauthor ..... 331
\@twocol@footgroupv@r	\@vpt ..... 8479	\@xcentercr .. 21859,
..... 12139, 12164	\@whilesw 10184, 10243,	21866, 22620,
\@twocolLTRfootfmt	15710, 15750,	22627, 23385, 23392
.. 12238, 12253,	15835, 16588,	\@xcolor@ .. 25695, 25738
12293, 12362, 12376	16641, 19245,	\@xcurraddr ..... 332
\@twocolLTRfootnotetext	19342, 26235, 26278	\@xemail ..... 332
..... 12134, 12231	\@wholewidth .....	\@xepersian@pdfcustomproperties
\@twocolRTLfootfmt	. 15639, 15641, 15659	..... 4416, 4427
.. 12265, 12280,	\@width .. 31, 245, 406,	\@xfloat ..... 4927
12296, 12389, 12403	578, 766, 1001,	\@xfootnote ... 4870,
\@twocolRTLfootnotetext	1246, 1536, 9301,	4992, 8961, 8972,
..... 12135, 12258	9454, 9730, 9935,	9178, 9192, 17624
\@twocolfootfmt ...	10159, 10224,	\@xfootnotemark .. 17309
.. 12192, 12222,	10456, 10475,	\@xfootnotenext ...
12290, 12320, 12349	10783, 11361,	.... 4869, 4991,
\@twocolfootnotetext	11660, 11711,	8960, 8971, 9177,
..... 12133, 12179	15510, 15739,	9191, 17276, 23859
\@twosidefalse .... 7233	16042, 16044,	\@xiipt ..... 8481
\@twosidetrue .... 7228	16489, 16577,	\@xipt ..... 8480
\@typeset@protect .	16624, 17926,	\@xivpt ..... 313, 8482
..... 4823,	17997, 18211,	\@xmakefntext .. 848,
4829, 4835, 4850	18262, 18380,	1350, 20564, 20705
\@undeclaredcolor .	19227, 19329,	\@xnewline ... 21850,
..... 9948,	19472, 19483,	21857, 22611,
9956, 25687, 25688	19515, 19566,	22618, 23376, 23383
\@undefined .....	20453, 20876,	\@xp ..... 121, 318,
. 4881, 18196, 19127	21032, 21214,	343, 344, 9849, 17967
\@undottedtocline 19394	21491, 22231,	\@xpt ..... 7249
\@unexpandable@protect	23004, 23786,	\@xstartcol ..... 16664
..... 5916, 7083	23825, 26100,	\@xthm ..... 19747, 19767



<code>\@xtitle</code> . . . . .	330	<code>\{</code> . . . . .	4740, 18502, 18546	<code>\addfontfeature</code>	5095,
<code>\@xxpt</code> . . . . .	8483	<code>\}</code> . . . . .	4741, 18502, 25917		5096, 5097, 5098,
<code>\@xxxii</code> . . . . .	4978	<code>\_</code> . . . . .	4280, 4506, 8009,		5099, 5100, 5102, 5103
<code>\@xympar</code> . . . . .			8013, 8028, 8032,	<code>\addpenalty</code> . . . . .	5, 210,
	7803, 7807, 7847,		8047, 8051, 8079,		547, 564, 702, 720,
	7851, 7891, 7895,		8083, 16381, 16383		727, 929, 946, 964,
	26360, 26364,	<code>\]</code> . . . . .			1185, 1203, 1211,
	26404, 26408, 26471	<code>\^</code> . . . . .			9236, 9252, 9259,
<code>\@yargdef</code> . . . . .	5885		8913, 8914, 8916, 8917		9413, 9429, 9436,
<code>\@ympar</code> . . . . .	26468	<code>\_</code> . . . . .	6835, 6847,		9700, 9715, 11289,
<code>\@ythm</code> . . . . .	19747, 19767		6860, 6983, 6986,		11303, 11558,
<code>\[</code> . . . . .	9130, 15754		6997, 7000, 19721		15460, 15475,
<code>\]</code> . . . . .	122, 427,	<code>\`</code> . . . . .	16509, 18355, 20313		17938, 20412,
	792, 837, 1044,	<code>\ </code> . . . . .	16388, 16389, 16504		20428, 20435,
	1089, 1294, 1339,				20784, 20800,
	1865, 2201, 3200,				20807, 21000,
	4878, 5175, 5181,				21014, 21184,
	5328, 6369, 6385,				21199, 24027,
	6389, 6618, 6620,				24029, 24162,
	6621, 6622, 6630,				24164, 24197,
	6635, 6636, 6638,				24219, 24583,
	7563, 7564, 7565,				24586, 24590,
	7567, 8527, 8896,				24695, 24698, 24702
	9034, 9336, 9513,				<code>\address</code> . . . . .
	10641, 10642,				331, 5129
	10645, 10661,				<code>\addresscolour</code> . . . . .
	10748, 10753,				. . . . .
	10760, 10770,				. . . . .
	10774, 11640,				5098, 10593,
	11644, 11653,				10691, 10697,
	17131, 17134,				10703, 10709, 10715
	17147, 17150,				<code>\addressfont</code> . . . . .
	17250, 17671,				. . . . .
	17686, 17705,				5115, 5226, 10631,
	17968, 17988,				10659, 10723, 10757
	17992, 18072,				<code>\addresssymbol</code> . . . . .
	18073, 18079,				. . . . .
	18080, 18189,				5089, 10661, 10760
	18363, 19857,				<code>\addresstyle</code> . . . . .
	19869, 20258,				5115
	20259, 20271,				<code>\addtocontents</code> . . . . .
	20272, 20284,				. . . . .
	20285, 20297,				3075, 3076
	20508, 20553,				<code>\addtoheadtemplate</code>
	20647, 20694,				4040
	21852, 21861,				<code>\AddToHook</code> . . . . .
	22613, 22622,				. . . . .
	23378, 23387,				6191,
	23777, 23792,				6232, 6272, 7068,
	23808, 23809,				7071, 7094, 7102,
	23985, 24014,				7127, 7136, 7156, 7174
	25533, 25540,				<code>\addtolength</code> . . . . .
	25912, 26049,				. . . . .
	26090, 26106, 26116				. . . . .
					3408, 3412,
					3415, 5049, 5050,
					5051, 5052, 5053,
					5054, 5152, 5153,
					5155, 5157, 5158,
					5161, 7335, 7338,
					7339, 7342, 8493,
					10739, 10740,
					10741, 11152,
					16984, 16985,
					21457, 21464,
					21465, 21468,



21470,	22196,	\adl@extract@dgc .. 1511	10791,	10801,
22204,	22205,	\adl@extract@drsc . 1509	10802,	10812,
22208,	22210,	\adl@height ..... 1502	10822,	10823,
22969,	22977,	\adl@inactivate ...	10839,	10840,
22978,	22981,	..... 1414, 1496	10841,	10858,
22983,	24046,	\adl@LT@array .... 17798	10867,	10874,
24047,	24778,	\adl@noalign ..... 1415	10896,	10897,
24788,	24792, 24796	\adl@org@activate . 1497	10898,	10912,
\addvspace ..... 5,		\adl@org@classz ... 1540	10919,	10926,
210, 548, 565, 703,		\adl@org@endpbox .. 1498	11073,	11074,
721, 728, 930, 947,		\adl@org@inactivate 1496	11083,	11084,
965, 1186, 1204,		\adl@putlrc 1451, 1452,	11100,	11102,
1212, 8521, 8578,		1453, 1481, 1482,	11106,	11108,
9237, 9253, 9414,		1483, 1489, 1490, 1491	11112,	11115,
9430, 9701, 11290,		\adl@startmbox .... 1454	11116,	11117,
11304,	11559,	\advance .. 12, 90, 217,	11296,	11349,
15461,	17938,	303, 321, 402, 571,	11620,	12032,
20413,	20429,	618, 734, 753, 920,	12057,	12124,
20785,	20801,	936, 1016, 1218,	12126,	14837,
21001,	21185,	1266, 1501, 1535,	14843,	14888,
24166,	24220,	1920, 1921, 1937,	14890,	14941,
24584,	24591,	1951, 2005, 2007,	14943,	14993,
24696,	24699,	2009, 2010, 2071,	14995,	15044,
24703, 24733, 25245		2079, 2258, 2259,	15046,	15317,
\adjmc@inner ..... 134		2475, 2524, 2525,	15419,	15420,
\adjmc@outer ..... 136		2537, 2541, 2542,	15421,	15482,
\adjmc@page@sofar@orig		2617, 2641, 2662,	15524,	15639,
..... 164		2696, 2703, 2707,	15641,	15643,
\adjmult@cols ..... 163		2709, 2713, 2714,	15649,	15650,
\adjmulticols ..... 132		2961, 2962, 3311,	15657,	15658,
\adl@act@classz ... 1539		3313, 3593, 3601,	15659,	15828,
\adl@act@CT@setup .		3603, 3669, 3741,	15829,	16384,
..... 1497, 1504		3742, 3744, 3745,	16398,	16411,
\adl@activate . 1414, 1497		3759, 4329, 4379,	16412,	16444,
\adl@argarraydashrule		4380, 4381, 4548,	16449,	16450,
..... 1433, 1471		4591, 4596, 4959,	16453,	16462,
\adl@array ... 1411, 1416		4973, 4979, 5245,	16526,	16653,
\adl@arraydashrule		5289, 5324, 5649,	16654,	16658,
..... 1432, 1470		5703, 5757, 6479,	16659,	16661,
\adl@arrayinit .... 1413		6638, 6644, 6654,	16662,	16665,
\adl@arrayrestore . 1408		6709, 6726, 6735,	16666,	16667,
\adl@arrayrule 1431, 1469		7751, 8457, 8532,	16668,	16787,
\adl@box . 1454, 1456, 1457		8883, 8891, 8892,	17633,	17643,
\adl@class@iiiorvii		9163, 9266, 9288,	17899,	17945,
..... 1460, 1493		9443, 9476, 9722,	18204,	18216,
\adl@class@start ..		9785, 9934, 9942,	18279,	19180,
..... 1459, 1492		9943, 9983, 10097,	19182,	19209,
\adl@CT@setup .....		10263, 10264,	19210,	19213,
... 1496, 1499, 1500		10267, 10270,	19280,	19282,
\adl@depth ..... 1503		10271, 10321,	19309,	19310,
\adl@endarray ..... 1408		10322, 10323,	19313,	19367,
\adl@endmbox ..... 1455		10385, 10525,	19368,	19369,
\adl@everyvbox 1412, 1413		10526, 10541,	19370,	19379,
\adl@extract@arc .. 1508		10560, 10561,	19401,	19414,



19426,	19439,	25964,	25966,	12884,	13177,
19568,	19569,	25970,	25972,	13180,	13183,
19740,	19744,	25976,	25978,	13476,	13479,
19745,	19760,	26074,	26075,	13482,	13775,
19764,	19765,	26139,	26165,	13778,	13781,
19773,	19864,	26440,	26441,	14074,	14077,
19886,	19914,	26448,	26449,	14080,	14373,
19921,	19969,	26450, 26451, 26476		14376,	14379,
19974,	19975,	\afterassignment ..		14672, 14675, 14678	
19976,	20005,	4282, 4284, 4508,		\Alph .....	19048
20006,	20032,	4510, 5917, 6718,		\alt .....	2809
20043,	20198,	7981, 23883, 23884		\AM@CheckAtEnd ...	19877
20200,	20205,	\aftergroup .....		\AM@ClearShipoutPicture	
20208,	20251,	4777, 4787, 7965,		.....	19879
20442,	20469,	7980, 9946, 9948,		\AM@currentdocname	
20814,	20863,	9955, 9961, 9980,		.....	19842, 19848
20904,	20947,	10274, 10280,		\AM@findfile .....	19846
21021,	21057,	10283, 15856,		\AM@output .....	19875
21206,	21260,	15858, 20088,		\AM@pagecount ...	19844
21325,	21434,	20089, 20092,		\AM@pageref 19859, 19862	
21436,	21792,	20097, 20098,		\AM@pagestemp .....	
21843,	22171,	20102, 20107,		.. 19852, 19857,	
22553,	22604,	20108, 20112,		19858, 19861,	
22946,	22948,	20116, 20120,		19869, 19870, 19874	
23318,	23369,	20124, 21870,		\AM@readlist .....	19874
23738,	23809,	21872, 21875,		\AM@split@options	19838
23823,	23833,	22631, 22633,		\AM@temp ...	19839, 19840
23853,	23948,	22636, 23396,		\AM@threadname .....	
23986,	24002,	23398, 23401,		. 19837, 19847, 19848	
24015,	24019,	24020, 25236,		\AM@xrprefix .....	
24051,	24052,	25676, 25685,		. 19855, 19859, 19862	
24073,	24178,	25687, 25724,		\and . 486, 522, 803, 829,	
24209,	24232,	25728, 25781,		832, 874, 1055,	
24249,	24266,	25792, 25793,		1081, 1084, 1126,	
24283,	24300,	25796, 25801,		1305, 1331, 1334,	
24317,	24335,	25802, 25806,		1376, 1398, 4636,	
24354,	24374,	25811, 25812,		9347, 9373, 9524,	
24409,	24450,	25816, 25821,		9550, 9639, 9675,	
24599,	24603,	25825, 25830,		11400, 11434,	
24714,	24749,	26486, 26496, 26497		11497, 11533,	
24752,	24756,	\ALG@floatstyle ...		15567, 15601,	
24809,	25234,	... 7766, 7767, 7768		19004, 19841,	
25254,	25259,	\algocf@float .....	198	20519, 20545,	
25309,	25310,	\algocf@makecaption	188	20548, 20590,	
25311,	25314,	\algocf@within .....		20658, 20686,	
25318,	25343,	166, 168, 201, 203, 205		20689, 20733,	
25354,	25433,	\alignL .....	9881	20757, 20936,	
25456,	25610,	\alignR .....	9888	20977, 21123,	
25612,	25622,	\allowbreak .....		21159, 21503,	
25641,	25642,	.. 10797, 10818,		21755, 22243,	
25671,	25682,	12292, 12295,		22495, 23016, 23268	
25683,	25939,	12298, 12585,		\andify .....	116, 17962
25952,	25953,	12588, 12591,		\andname ..	837, 1089,
25956,	25958,	12878, 12881,		1339, 20553, 20694	



\andnext . . . . .	19005	23785, 23820,	15565, 15599,
\AppendToTokenList	6585	25925, 26098, 26099	20543, 20588,
\ApplyPatchCodeToFile		\aslice . 20012, 20013,	20684, 20731,
. . . . .	7120	20015, 20017,	20934, 20975,
\ApplyPatchCodeToPackage		20018, 20020,	21121, 21157,
1495, 1870, 7201,		20033, 20034, 20036	21744, 22484, 23257
17397, 17417,		\At@ViperColsBreak	\auto@footnoterule
17495, 17794,		. . . . . 10288, 10291	. . . . . 16058, 16069
18237, 19108, 24087		\AtBeginCaption . .	\autodot . . . . . 21759,
\ApplyPatchIfPackageLoaded		\AtBeginDocument . .	22498, 23271, 25446
. . . . . 7172, 7188,		. . . . . 1543, 2188,	\autofootnoterule .
7193, 18149, 25900		3082, 3315, 3544,	. . . . . 4120,
\ApplyPatchIfPackageLoadedF		3614, 3662, 3782,	10777, 11705,
. . . . . 170, 2125,		3870, 3965, 4030,	16067, 16768, 26590
7191, 24062, 26585		4044, 4159, 4273,	
\ApplyPatchIfPackageLoadedT		5064, 5124, 5221,	
. . . . . 7186		6226, 7344, 7571,	
\ApplyPatchToClass		7705, 7710, 7763,	
. . . . . 7036, 7206		8574, 8774, 8839,	
\ApplyPatchToClasses		10670, 10784,	
. . . . . 7031, 26611		10805, 10826,	
\ApplyPatchToClassesIfPackageLoadedF		11356, 14884,	
. . . . . 7041, 26599		14937, 14989,	
\ApplyPatchToClassIfPackageLoadedF		15040, 15432,	
. . . . . 7046, 7134		16171, 16776,	
\ApplyPatchToFile .		17248, 18005,	
. . 7012, 7106, 26754		18158, 18165,	
\ApplyPatchToFiles		20329, 23799, 25383	
. . 7007, 7129, 26749		\AtBeginPackage . .	
\ApplyPatchToFilesIfPackageLoadedF		\AtEndDocument . . . .	
. . . . . 7125, 26606		. . . . . 4409, 4422,	
\ApplyPatchToPackage		4435, 5228, 6252,	
. . . . . 7024, 7196		9058, 9115, 18487,	
\ApplyPatchToPackageIfPackageLoadedF		18538, 18556, 26186	
. . . . . 7154, 26604		\AtEndOfClass . . . . . 5063	
\ApplyPatchToPackages		\AtEndOfPackage . . .	
. . . . . 7019, 26638		4081, 4082, 4088,	
\ar@ialign . . . . . 412		4089, 4095, 4096,	
\arabic . . . . . 19,		4101, 4102, 4107,	
20, 21, 22, 86, 198,		4108, 4120, 4121,	
224, 225, 226, 227,		4122, 4123, 4124, 4159	
299, 339, 15790,		\AtPageLowerLeft . .	
15797, 17895,		\AtPageUpperLeft . .	
17952, 17953,		. 11064, 11088, 11118	
17954, 17955, 24390		\AtTextUpperLeft . .	
\array . . . . . 444, 26114		. . . . . 11068, 11094	
\arraycolsep . . . . . 444		\author . . . . . 331,	
\arraylinesep . . . . . 23816		484, 520, 827,	
\arrayrulecolor . . . 1508		872, 1079, 1124,	
\arrayrulewidth . . . 23833		1329, 1374, 4634,	
\arraystretch 404, 405,		8624, 8656, 9371,	
4771, 4782, 18209,		9548, 9637, 9673,	
18210, 23784,		11398, 11432,	
		11495, 11531,	
			15565, 15599,
			20543, 20588,
			20684, 20731,
			20934, 20975,
			21121, 21157,
			21744, 22484, 23257
			\auto@footnoterule
			. . . . . 16058, 16069
			\autodot . . . . . 21759,
			22498, 23271, 25446
			\autofootnoterule .
			. . . . . 4120,
			10777, 11705,
			16067, 16768, 26590
			<b>B</b>
			\backmatter . . . . .
			. . 8828, 9770, 11605
			\Backref@HyperLTRFootnote
			. . . . . 16298, 16305
			\Backref@HyperRTLFootnote
			. . . . . 16304, 16308
			\Backref@HyperSymbol
			. . . . . 16306,
			16309, 16312, 16315
			\Backref@OptHyperLTRFootnote
			. . . . . 16311
			\Backref@OptHyperRTLFootnote
			. . . . . 16314
			\Backref@OptLTRHyperFootnote
			. . . . . 16298
			\Backref@OptRTLHyperFootnote
			. . . . . 16304
			\BackrefFootnoteTag
			. . 16296, 16297,
			16302, 16303,
			16322, 16326,
			16328, 16334,
			16338, 16340,
			16346, 16350, 16352
			\badness . . . . . 10314,
			10318, 10346,
			10350, 10352,
			10357, 10361,
			10365, 10429, 10450
			\baselineskip . . 425,
			765, 767, 771,
			773, 1245, 1247,
			1251, 1253, 2493,
			2914, 2929, 2944,
			3031, 3033, 3061,
			3067, 3210, 5857,
			7277, 7279, 7282,
			7284, 7286, 7289,





7444, 8074, 8141,	12833,	12845,	14805,	15062,
8159, 8177, 8294,	12860,	12900,	15093,	15111,
8303, 8312, 8393,	12929,	12942,	15127,	15141,
8400, 8407, 8414,	12956,	12969,	15157,	15196,
8421, 8521, 8578,	12983,	12994,	15226,	15240,
8921, 8982, 9046,	13000,	13006,	15255,	15269,
9052, 9300, 9302,	13011,	13071,	15284,	15302,
9306, 9308, 9453,	13101,	13117,	15313, 15327, 15336	
9455, 9459, 9461,	13132,	13144,	\BCmd . . . . .	4776
10098, 10099,	13159,	13199,	\BDefaboveskip . . . .	
10116, 10120,	13228,	13241,	. . . 4791, 4806, 4809	
10527, 15866,	13255,	13268,	\BDefbelowskip . . . .	
16399, 18225,	13282,	13293,	. . . 4795, 4807, 4810	
18235, 18361,	13299,	13305,	\BDefinlineskip . . .	
18378, 19967,	13310,	13370,	. . . 4800, 4808, 4811	
19970, 19984,	13400,	13416,	\beamer@ttmpop@button@default	
20008, 20012,	13431,	13443,	. . . . .	2952
20017, 20021,	13458,	13498,	\beamer@ttmpop@caption@default	
20033, 20044,	13527,	13540,	. . . . .	2881
20071, 20324,	13554,	13567,	\beamer@ttmpop@footline@progressbar	
20452, 20454,	13581,	13592,	. . . . .	3401
20458, 20460,	13598,	13604,	\beamer@ttmpop@footnote@default	
20875, 20877,	13609,	13669,	. . . . .	2858
20881, 20883,	13699,	13715,	\beamer@biblabeltemplate	
21533, 22273,	13730,	13742,	. . . . .	2660, 2669
23046, 23795,	13757,	13797,	\beamer@boxsize . . .	
23834, 25610,	13826,	13839,	. . . 2707, 2711, 2713	
25618, 25622,	13853,	13866,	\beamer@colalign . .	
26110, 26530, 26553	13880,	13891,	. . . . .	2233, 2243
\baselinestretch . .	13897,	13903,	\beamer@colbox@color	
. . . . 5079, 8137,	13908,	13968,	. . . 1991, 2030, 2043	
8155, 8173, 11737,	13998,	14014,	\beamer@colbox@colsep	
11753, 11768,	14029,	14041,	. . . . .	2008,
11784, 11799,	14056,	14096,	2009, 2010, 2011, 2019	
11814, 11827,	14125,	14138,	\beamer@colbox@colseps	
11839, 11851,	14152,	14165,	. . . . 2013, 2020,	
11864, 12186,	14179,	14190,	2044, 2046, 2048, 2050	
12216, 12232,	14196,	14202,	\beamer@colbox@dp .	2025
12247, 12259,	14207,	14267,	\beamer@colbox@ht .	2024
12274, 12314,	14297,	14313,	\beamer@colbox@ls .	2004
12343, 12356,	14328,	14340,	\beamer@colbox@rs .	2006
12370, 12383,	14355,	14395,	\beamer@colbox@sep	
12397, 12408,	14424,	14437,	. . . . .	2005,
12414, 12420,	14451,	14464,	2007, 2015, 2017	
12425, 12485,	14478,	14489,	\beamer@colbox@shadow	
12514, 12529,	14495,	14501,	. . . . .	2029
12543, 12554,	14506,	14566,	\beamer@colbox@wd .	
12568, 12607,	14596,	14612,	. . . 2002, 2023, 2032	
12635, 12647,	14627,	14639,	\beamer@colclose . .	
12660, 12672,	14654,	14694,	. . . . .	2230,
12685, 12695,	14723,	14736,	2239, 2240, 2271, 2272	
12701, 12707,	14750,	14763,	\beamer@colentrycode	
12712, 12772,	14777,	14788,	. . . 2249, 2252, 2270	
12802, 12818,	14794,	14800,		



<code>\beamer@colexitcode</code>	<code>\beamer@frametextheight</code>	<code>\beamer@rightsidebar</code>
... 2250, 2262, 2272	.... 2515, 2536,	... 2079, 2525, 2542
<code>\beamer@colheadskip</code>	2545, 2549, 2552, 2565	<code>\beamer@RTLfootnotetext</code>
..... 2234, 2244	<code>\beamer@frametitlebox</code>	... 2419, 2433, 2440
<code>\beamer@colmode</code> ...	..... 2581	<code>\beamer@section@min@dim</code>
..... 2229, 2238	<code>\beamer@framezoom</code> . 2472	..... 2716
<code>\beamer@columncom</code> . 2238	<code>\beamer@fteleft</code> ... 3311	<code>\beamer@shortinstitute</code>
<code>\beamer@computepref</code>	<code>\beamer@fteright</code> .. 3313	..... 3480
..... 2596, 2618	<code>\beamer@gobbleoptionalinsp</code>	<code>\beamer@sidebarformat</code>
<code>\beamer@cramped</code> ...	..... 2809	..... 3647
... 2609, 2635, 2650	<code>\beamer@headheight</code>	<code>\beamer@sidebarside</code>
<code>\beamer@defaultspec</code>	..... 3586,	..... 3621,
..... 2615	3594, 3597, 3598,	3663, 3666, 3688
<code>\beamer@descdefault</code>	3630, 3634, 3637, 3641	<code>\beamer@sidebarwidth</code>
..... 2641, 2649	<code>\beamer@kvorig</code> ....	3593, 3625, 3630,
<code>\beamer@descriptionitem</code>	.... 2396, 2402,	3631, 3633, 3636,
..... 2649	2422, 2428, 2448, 2454	3637, 3649, 3651,
<code>\beamer@dima</code> ... 2961,	<code>\beamer@labelzoomed</code>	3660, 3663, 3668, 3686
2976, 2981, 2992, 2997	..... 2477,	<code>\beamer@slidehaszoomtrue</code>
<code>\beamer@dimb</code> .....	2481, 2508, 2510, 2511	..... 2474
2962, 2977, 2978,	<code>\beamer@leftmargin</code>	<code>\beamer@stalign</code> ... 2685
2980, 2993, 2994, 2996	..... 2053,	<code>\beamer@stend</code> .... 2688
<code>\beamer@dogeometryfalse</code>	2070, 2255, 2258,	<code>\beamer@stlinebreakrule</code>
..... 2066	2550, 2552, 2565,	..... 2686
<code>\beamer@entrycode</code> . 2580	3594, 3600, 3741, 3744	<code>\beamer@ststart</code> ... 2682
<code>\beamer@enum@</code> .... 2595	<code>\beamer@leftsidebar</code>	<code>\beamer@temp</code> .....
<code>\beamer@enumtempl</code> . 2604	... 2071, 2524, 2541	... 2535, 2557, 2570
<code>\beamer@exitcode</code> .. 2586	<code>\beamer@lefttext</code> ..	<code>\beamer@tempbox</code> ...
<code>\beamer@firstlineitemizeunskip</code>	..... 3621, 3688	.... 1992, 2023,
..... 1882,	<code>\beamer@link</code> .... 2717	2024, 2025, 2033,
2611, 2637, 2652	<code>\beamer@LTRfootnotetext</code>	2036, 2037, 2039,
<code>\beamer@focus@totalframenumbering</code>	... 2445, 2459, 2466	2042, 2047, 2052,
... 3410, 3435, 3455	<code>\beamer@minislide</code> .	2053, 2055, 2107,
<code>\beamer@footarg</code> ...	..... 2730, 2735	2108, 2109, 2110,
.... 2398, 2399,	<code>\beamer@minislidehighlight</code>	2115, 2118, 2129,
2400, 2404, 2411,	..... 2723	2134, 2135, 2143,
2424, 2425, 2426,	<code>\beamer@minislidewhilehighlight</code>	2144, 2145, 2146,
2430, 2437, 2450,	..... 2725	2149, 2158, 2163,
2451, 2452, 2456, 2463	<code>\beamer@mpfn</code> .....	2164, 2172, 2173,
<code>\beamer@footins</code> ...	.... 2394, 2405,	2174, 2175, 2211,
2286, 2291, 2303,	2411, 2420, 2431,	2212, 2213, 2214,
2308, 2320, 2325, 2588	2437, 2446, 2457, 2463	2219, 2223, 2224,
<code>\beamer@footnotetext</code>	<code>\beamer@next</code> .....	2225, 2226, 2956,
... 2393, 2407, 2414	.... 2405, 2409,	2957, 2958, 2959,
<code>\beamer@framebox</code> ..	2416, 2431, 2435,	2960, 2965, 3005,
..... 2549,	2442, 2457, 2461, 2468	3361, 3366, 3370,
2561, 2574, 2579, 2583	<code>\beamer@putleft</code> 3104,	3374, 3378, 3382,
<code>\beamer@framefootnotetext</code>	3137, 3149, 3161	3747, 3758, 3775,
..... 2285, 2384	<code>\beamer@putright</code> ..	3995, 3996, 4014, 4015
<code>\beamer@frameLTRfootnotetext</code>	... 3138, 3150, 3162	<code>\beamer@tempdim</code> 2070,
..... 2319, 2386	<code>\beamer@rightmargin</code>	2071, 2073, 2075,
<code>\beamer@frameRTLfootnotetext</code>	.... 2053, 2078,	2078, 2079, 2081,
..... 2302, 2385	2149, 2259, 2264,	2083, 2108, 2109,
	3594, 3602, 3742, 3745	2112, 2113, 2143,



2144, 2172, 2173,	<code>\beamertemplatedotitem</code>	5201, 5204, 5239,
2212, 2213, 2216,	..... 4042	5352, 5356, 5376,
2217, 2257, 2258,	<code>\begin</code> .....	5380, 5407, 6289,
2259, 2260, 2706,	450, 460,	6290, 6297, 6323,
2707, 2708, 2709,	465, 528, 536, 777,	7350, 7351, 7364,
2710, 2711, 2712,	790, 801, 880, 886,	7367, 7441, 7442,
2713, 2714, 2715,	1029, 1042, 1053,	7448, 7449, 7456,
2716, 2960, 2961,	1132, 1138, 1279,	7457, 7482, 7483,
2962, 2966, 2968,	1292, 1303, 1383,	7520, 7523, 7526,
2974, 2982, 2990,	1389, 1398, 1400,	7529, 7533, 7534,
2998, 3004, 3668,	1401, 1600, 1779,	7718, 7719, 8337,
3669, 3675, 3683,	1815, 1824, 1833,	8393, 8400, 8407,
3743, 3744, 3745,	1858, 1901, 1923,	8414, 8421, 8434,
3758, 3759, 3760, 3769	1949, 1961, 2028,	8442, 8564, 8569,
<code>\beamer@themrounded@shadow</code>	2231, 2233, 2241,	8702, 8749, 8772,
..... 3306	2243, 2247, 2490,	9147, 9321, 9334,
<code>\beamer@thempfn</code> ...	2552, 2565, 2683,	9345, 9498, 9511,
.... 2395, 2406,	2754, 2758, 2777,	9522, 9566, 9578,
2412, 2421, 2432,	2781, 2797, 2801,	9603, 9613, 9618,
2438, 2447, 2458, 2464	2905, 2913, 2920,	9681, 9689, 10001,
<code>\beamer@typesettheadorfoot</code>	2928, 2935, 2943,	10011, 10024,
... 2177, 2182, 2192	2968, 3026, 3032,	10034, 10047,
<code>\beamer@usesphere</code> .	3039, 3056, 3062,	10057, 10070,
.... 1756, 1761,	3068, 3108, 3115,	10080, 10645,
1767, 1780, 1795, 1802	3121, 3127, 3196,	10751, 10756,
<code>\beamer@vboxoffset</code> 2706	3217, 3232, 3234,	10774, 10943,
<code>\beamer@vmode</code> . 1978, 2016	3239, 3241, 3246,	10946, 10950,
<code>\beamer@xkvorig</code> ...	3252, 3266, 3268,	10952, 10957,
.... 2397, 2403,	3270, 3341, 3342,	10959, 10963,
2423, 2429, 2449, 2455	3348, 3349, 3368,	10966, 10969,
<code>\beamer@xpos</code> .....	3376, 3421, 3447,	10973, 10975,
... 2696, 2701, 2712	3479, 3482, 3485,	10979, 10981,
<code>\beamer@ypos</code> .....	3506, 3508, 3513,	10985, 10988,
... 2702, 2703, 2708	3515, 3532, 3533,	10991, 10995,
<code>\beamer@ypos@offset</code>	3554, 3556, 3560,	10997, 11002,
..... 2699, 2703	3563, 3566, 3572,	11004, 11175,
<code>\beamer@zoomborderwidth</code>	3620, 3649, 3651,	11241, 11368,
..... 2476, 2480	3703, 3705, 3710,	11376, 11381,
<code>\beamer@zoombox</code> ... 2505	3712, 3747, 3760,	11440, 11446,
<code>\beamer@zoomcount</code> .	3761, 3767, 3796,	11461, 11471,
..... 2475, 2477	3797, 3798, 3815,	11476, 11539,
<code>\beamer@zoomer</code> .... 2513	3820, 3823, 3836,	11547, 11639,
<code>\beamer@zoomframecount</code>	3842, 3844, 3858,	15535, 15543,
..... 2477	3859, 3860, 3884,	15548, 15607,
<code>\beamerboxesrounded</code> 1881	3885, 3886, 3896,	15613, 15757,
<code>\beamercolorbox</code> ... 2950	3899, 3905, 3908,	16999, 17004,
<code>\beameritemnestingprefix</code>	3915, 3918, 3932,	17022, 17125,
.... 1729, 1730,	3937, 3939, 3952,	17127, 17141,
2596, 2597, 2599,	3953, 3954, 3975,	17143, 17987,
2600, 2607, 2608,	3978, 3981, 3987,	19154, 19780,
2618, 2619, 2621,	3990, 4006, 4009,	20493, 20506,
2622, 2625, 2629, 2630	4024, 4770, 4772,	20517, 20596,
<code>\beameroriginal</code> ... 2809	4781, 4783, 4786,	20602, 20630,
	5179, 5183, 5185,	20645, 20656,
	5187, 5189, 5193,	



20740,	20748,	9926, 9980, 9989,	4535, 5226, 7825,
20757,	20759,	10181, 10240,	7869, 9911, 9940,
20760,	20890,	11069, 11095,	9946, 9948, 9980,
20910,	20915,	11292, 11305,	12121, 15652,
20991,	21087,	11404, 11501,	15761, 15776,
21097,	21102,	11560, 14875,	15944, 16778,
21165,	21173,	14885, 14928,	16784, 16793,
21506,	21510,	14938, 14980,	16813, 16829,
21570,	21575,	14990, 15031,	16839, 17632,
21587,	21610,	15041, 15462,	18111, 19884,
21614,	21783,	15478, 15571,	19947, 20082,
22246,	22250,	15709, 15747,	20088, 20104,
22310,	22315,	15832, 15848,	20180, 21372,
22327,	22350,	16098, 16107,	21383, 21390,
22354,	22544,	16269, 16284,	21400, 23950,
23019,	23023,	16358, 16410,	25680, 25685,
23083,	23088,	16443, 16585,	25687, 25781,
23100,	23123,	16638, 16812,	25786, 25792,
23127,	23309,	16828, 16998,	25808, 26382,
24066,	25497,	17277, 17288,	26460, 26540, 26556
25504,	25507,	17299, 17310,	<code>\beginR</code> . 174, 346, 358,
25518,	25531,	17408, 17428,	389, 428, 1513,
25534,	25541,	17466, 17499,	3366, 3374, 3382,
25547,	25570,	17530, 17561,	3557, 4875, 7825,
25574, 25580, 25587		17795, 17810,	7913, 9838, 9912,
<code>\begin@bidi@stack</code> .		17939, 17965,	9941, 9946, 9955,
. . . . 5346, 5356,		18142, 18213,	9961, 9980, 11062,
5357, 5370, 5380, 5381		19011, 19141,	12118, 15786,
<code>\beginRgroup</code> 6, 119, 211,		19242, 19339,	16780, 16785,
312, 325, 391, 408,		19549, 19553,	16842, 16881,
490, 550, 567, 704,		19557, 19835,	16888, 17257,
730, 844, 932, 948,		19883, 20180,	17265, 17647,
1096, 1187, 1214,		20414, 20438,	17683, 17715,
1346, 1527, 1970,		20560, 20701,	17744, 17770,
1971, 2106, 2210,		20786, 20810,	17776, 17783,
2410, 2436, 2462,		20940, 21002,	17980, 18111,
2488, 2556, 2569,		21017, 21127,	18229, 18290,
4616, 4905, 4913,		21187, 21202,	18293, 18335,
4921, 5300, 5328,		21523, 21669,	18428, 18436,
5347, 5371, 5607,		21782, 21841,	18627, 18953,
5632, 5983, 6029,		22263, 22409,	19117, 19119,
6036, 6058, 6074,		22543, 22602,	19957, 20082,
6090, 6133, 6141,		23036, 23182,	20089, 20094,
6174, 6224, 6352,		23308, 23367,	20176, 20177,
6560, 6562, 6592,		23882, 23999,	20178, 21366,
6602, 6612, 6742,		24023, 24167,	21376, 21387,
7081, 7544, 7963,		24594, 24706,	21394, 21886,
8209, 8238, 8267,		25232, 25349,	22647, 23412,
8641, 8658, 8674,		25689, 25732,	23774, 23796,
8686, 8719, 9023,		25781, 25903,	23835, 23957,
9083, 9090, 9097,		26232, 26275, 26486	25681, 25685,
9127, 9238, 9262,	<code>\beginL</code> . . . . . 176,		25724, 25728,
9415, 9439, 9643,	1512, 2000, 3138,		25781, 25786,
9703, 9718, 9807,	3150, 3162, 4317,		25793, 25798,



26059,	26062,	2620, 2643, 3109,	\bibliofont 85, 298, 17894
26065,	26080,	3116, 3122, 3128,	\bibliographyitemlabel
26087,	26112,	3490, 3626, 3673,	..... 5232, 5239
26426,	26460,	3680, 3714, 3751,	\bibname .....
26477,	26479,	4286, 4512, 4865,	8558, 9281, 9282,
26540,	26556,	4987, 8955, 9173,	9469, 9470, 9778,
26575, 26578, 26586		9187, 9840, 9912,	9779, 11613,
\belowcaptionskip .		15761, 15762,	11614, 15517,
..... 18121,		15776, 16235,	15518, 20462,
19107, 19124,		16463, 18217,	20463, 20856,
21899, 21907,		18219, 18256,	20857, 21050,
21999, 22012,		18290, 18293,	21051, 21253, 21254
22660, 22668,		18345, 19354,	\bibpostamble ... 19674
22761, 22774,		19895, 20090,	\bibpreamble .....
23425, 23433,		20096, 20100,	.. 19657, 21773,
23526, 23539, 26580		20106, 20110,	21774, 22533,
\belowdisplaysshortskip		20115, 20118,	22534, 23298, 23299
... 7252, 7261, 8471		20123, 20388,	\bibsection 8552, 8555,
\belowdisplayskip .		20838, 23774,	8557, 8558, 19151,
..... 7253,		23782, 23790,	19655, 24063, 24065
7266, 7301, 8476		23796, 23827,	\bidi .....
\bf ... 4552, 19953, 19955		23831, 23835,	6843, 6856,
\bfseries .....		25341, 25794,	6873, 6878, 6906, 6911
25,		25800, 25804,	\bidi@@convert@dimen@t@pt
313, 554, 570, 599,		25810, 25814,	..... 5545
602, 709, 733, 935,		25820, 25823,	\bidi@@convert@dimen@t@unit
953, 1192, 1217,		25829, 25903,	..... 5542
4335, 4726, 5196,		25909, 26087,	\bidi@@diagbox@double@ii
8701, 9243, 9265,		26096, 26104, 26112	..... 10944, 10948
9420, 9442, 9567,		\BHFN@OldLTRFootnote	\bidi@@diagbox@double@iii
9579, 9707, 9721,		. 16291, 16306, 16312	..... 10947, 10955
9753, 9759, 9767,		\BHFN@OldRTLFootnote	\bidi@@diagbox@triple@setbox@NW@tabular@ii@i
11295, 11310,		. 16292, 16309, 16315	. 10964, 10967, 10971
11325, 11328,		\bib@after@hook 21827,	\bidi@@diagbox@triple@setbox@NW@tabular@iii
11337, 11564,		21829, 22588,	..... 10970, 10977
11587, 11593,		22590, 23353, 23355	\bidi@@diagbox@triple@setbox@SE@tabular@i
11602, 15467,		\bib@before@hook ..	..... 10986, 10993
15481, 15492,		..... 21777,	\bidi@@diagbox@triple@setbox@SE@tabular@ii@i
15497, 15505,		21828, 22538,	. 10989, 10992, 11000
17934, 20419,		22589, 23303, 23354	\bidi@@end ... 6280, 6284
20441, 20791,		\bib@beginhook 21770,	\bidi@@footnotetext@font
20813, 20987,		21776, 22531,	..... 38, 251,
21006, 21020,		22537, 23296, 23302	2293, 2342, 8139,
21191, 21205,		\bib@endhook .....	16118, 16125, 16219
21236, 21241,		. 21831, 22592, 23357	\bidi@@LTRfootnotetext@font
21249, 24598,		\bib@heading .....	..... 68, 280,
24711, 25142,		. 21772, 22536, 23301	2327, 2374, 8157,
25146, 25151,		\bibcleanup .....	16119, 16158, 16204
25180, 25184, 25189		..... 19679	\bidi@@null .. 6452, 6453
\bgroup .....		\bibentry .....	\bidi@@patchcmd ...
171,		8011,	..... 6031, 6033
172, 389, 414, 422,		8013, 8030, 8032,	\bidi@@RTLfootnotetext@font
428, 678, 1237,		8049, 8051, 8081, 8083	..... 52, 265,
1513, 1883, 1961,		\bibfont .....	2310, 2358, 8175,
1992, 2001, 2249,		..... 19658	16120, 16142, 16189
2253, 2260, 2598,		\bibindent ... 5230, 5231	
		\bibitem@fin .....	19673



<code>\bidi@thebibliography@font@</code>	<code>\bidi@AfterLastShipout</code>	<code>\bidi@autofooteruletrue</code>
..... 88, 301,	... 6254, 6260, 6266	..... 16068
614, 749, 1012,	<code>\bidi@afterlastshipouthook</code>	<code>\bidi@backslash</code> ...
1262, 2658, 5238,	..... 6254,	..... 6369, 6370
9284, 9472, 9781,	6255, 6261, 6267	<code>\bidi@beamer@blacktriangle</code>
11345, 11616,	<code>\bidi@AfterOutputBoxOutputPage</code>	..... 2840,
15520, 17897,	..... 6202,	2854, 2855, 2856
19153, 19660,	12019, 15878, 26549	<code>\bidi@beamer@frametitleshade</code>
20465, 20859,	<code>\bidi@afteroutputboxoutputpagehook</code>	..... 3726, 3771
21053, 21256,	..... 6202,	<code>\bidi@beamer@Gm@lmargin</code>
21786, 22547,	6203, 15879, 26550	..... 2088,
23312, 24069, 25934	<code>\bidi@AfterOutputPageShipOut</code>	2115, 2118, 2195
<code>\bidi@absolutefootnote@count</code>	. 6212, 15881, 26562	<code>\bidi@beamer@Gm@rmargin</code>
..... 12018,	<code>\bidi@afteroutputpageshipouthook</code>	... 2096, 2204, 2223
12025, 12043, 12057	..... 6212,	<code>\bidi@beamer@leftskip</code>
<code>\bidi@absolutepage@count</code>	6213, 15882, 26563	... 1572, 1575,
..... 12016,	<code>\bidi@AfterPackage</code>	1579, 1582, 1586,
12017, 12024,	<code>\bidi@AfterPreamble</code>	1596, 1610, 1614,
12032, 12039, 12043	.. 6226, 6227, 18041	1632, 1650, 1656,
<code>\bidi@addto@envbody</code>	<code>\bidi@AfterReadingMainAux</code>	1754, 1760, 1765,
... 5342, 5360, 5362	..... 6991, 6996	1776, 1794, 1801,
<code>\bidi@addto@long@envbody</code>	<code>\bidi@append</code> .. 6135, 6185	2813, 2834, 2837,
... 5366, 5384, 5386	<code>\bidi@append@cslist@to@cslist</code>	2950, 3600, 3601, 3749
<code>\bidi@AfterAtEndOfClass</code>	..... 6573, 6646	<code>\bidi@beamer@ragged</code>
..... 6869	<code>\bidi@append@list@to@list</code>	..... 1551,
<code>\bidi@AfterAtEndOfPackage</code>	..... 6569, 6655	1817, 1826, 1835,
..... 6902	<code>\bidi@append@to@list</code>	1844, 1860, 1876,
<code>\bidi@AfterClass</code> .. 6815	..... 6548, 6567	2234, 2244, 2610,
<code>\bidi@AfterEndDocument</code>	<code>\bidi@append@toks@cs@to@list</code>	2636, 2651, 2670,
..... 6269,	..... 6577	2684, 2863, 2885,
6272, 6276, 6282	<code>\bidi@appto</code> .. 5919, 5963, 6234	3178, 3186, 3197,
<code>\bidi@AfterEndDocumentCheckLabelsRun</code>	<code>\bidi@apptocmd</code> ....	3280, 4271, 25834,
..... 5279,	..... 6132, 23978	25844, 25854,
6241, 6246, 12059	<code>\bidi@are@these@correct</code>	25855, 26013,
<code>\bidi@afterenddocumentchecklabelssrerrunhook</code>	..... 6545, 6548	26022, 26031, 26040
... 6241, 6242, 6247	<code>\bidi@AtBeginEnvironment</code>	<code>\bidi@beamer@rightskip</code>
<code>\bidi@afterenddocumenthook</code>	..... 6286, 6298	..... 2821,
..... 6269,	<code>\bidi@AtEndEnvironment</code>	2950, 3602, 3603, 3750
6270, 6277, 6283	..... 6302, 6312	<code>\bidi@beamer@today</code>
<code>\bidi@AfterEndEnvironment</code>	..... 6302, 6312	... 3323, 3344, 3351
..... 6326, 6336	<code>\bidi@AtEndOutputPage</code>	<code>\bidi@BeforeBeginEnvironment</code>
<code>\bidi@AfterEndPreamble</code>	... 5323, 6215,	..... 6316, 6324
6229, 6232, 6235,	12031, 15887, 26568	<code>\bidi@BeforeClass</code> . 7073
6237, 6252, 8715, 8738	<code>\bidi@atendoutputpagehook</code>	<code>\bidi@BeforeClosingMainAux</code>
<code>\bidi@afterendpreamblehook</code>	..... 6215,	..... 6977, 6982
..... 6229,	6216, 15888, 26569	<code>\bidi@BeforeFile</code> ..
6230, 6236, 6238	<code>\bidi@AtEndPreamble</code>	... 7067, 7074, 7077
<code>\bidi@AfterFile</code> 3169,	..... 4384,	<code>\bidi@BeforeFooter</code>
3522, 7070, 16317,	6188, 6191, 6220,	..... 6205, 26551
21994, 22756, 23521	6222, 6227, 7995,	<code>\bidi@beforefooterhook</code>
<code>\bidi@AfterFooter</code> .	18124, 19512, 19572	.. 6205, 6206, 26552
..... 6208, 26558	<code>\bidi@autofooterulefalse</code>	<code>\bidi@BeforeHeader</code>
<code>\bidi@afterfooterhook</code>	.. 16046, 16050, 16053	.. 6196, 15871, 26534



<code>\bidi@beforeheaderhook</code>	14789, 14795,	3550, 3578, 3580,
..... 6196,	15300, 15311, 18311	3582, 3584, 3698,
6197, 15872, 26535	<code>\bidi@copy@stacktop</code> 6631	3734, 3788, 3790,
<code>\bidi@BeforeOutputBoxOutputPage</code>	<code>\bidi@copyins@amount</code>	3876, 3878, 3971, 6119
.. 6199, 15875, 26546	.. 16657, 16658,	<code>\bidi@csuse</code> .....
<code>\bidi@beforeoutputboxoutputpagehook</code>	6659, 16662,	5906, 6293, 6307,
..... 6199,	16667, 16668, 16680	6320, 6331, 12043
6200, 15876, 26547	<code>\bidi@counter@page</code>	<code>\bidi@cswitch</code> . 6506, 6508
<code>\bidi@BeforeOutputPageShipOut</code>	..... 5293, 5322	<code>\bidi@csxappto</code> 5966, 5968
.. 6193, 15853, 26492	<code>\bidi@cs@a</code> ... 6454, 6455	<code>\bidi@csxpreto</code> 5975, 5977
<code>\bidi@beforeoutputpageshipoutputhook</code>	<code>\bidi@cs@e</code> 6625, 6626,	<code>\bidi@current@column@status</code>
..... 6193,	6628, 6629, 6632, 6634	.. 26151, 26154, 26187
6194, 15854, 26493	<code>\bidi@cs@lista</code> ....	<code>\bidi@dbg@fail</code> ....
<code>\bidi@BeforePackage</code> 7076	.... 6598, 6599,	5991, 6001, 6002,
<code>\bidi@bidiold@footnotetext</code>	6600, 6601, 6610, 6611	6003, 6004, 6010,
..... 11748, 15007	<code>\bidi@cs@listb</code> 6595, 6597	6019, 6025, 6127,
<code>\bidi@bidiold@mpfootnotetext</code>	<code>\bidi@cs@liste</code> 6593, 6598	6149, 6161, 6162, 6171
..... 11822, 15021	<code>\bidi@csappto</code> .....	<code>\bidi@dbg@info</code> . 5992,
<code>\bidi@bidiold@mpRTLfootnotetext</code>	<code>\bidi@cs@arg</code> ... 6381,	5994, 5997, 5999,
..... 11859, 15026	6397, 6471, 6478,	6000, 6011, 6013,
<code>\bidi@bidiold@RTLfootnotetext</code>	6496, 6501, 6506,	6015, 6017, 6018,
..... 11779, 15012	6511, 6517, 6522,	6020, 6022, 6024,
<code>\bidi@bswitch</code> . 6511, 6513	6564, 6565, 6583,	6125, 6150, 6152,
<code>\bidi@CharsBefore</code> .	6589, 6600, 6610,	6154, 6157, 6163, 6165
6426, 6428, 6429,	6619, 6629, 6633, 6637	<code>\bidi@dbg@init</code> . 5989,
6434, 6438, 6439, 6444	<code>\bidi@csdefcs</code> .....	6008, 6124, 6147
<code>\bidi@CharsBeforeNC</code> 6427	<code>\bidi@cs@appto</code> 5964, 5967	<code>\bidi@dbg@succ</code> . 6035,
<code>\bidi@clearpage</code> ...	<code>\bidi@cs@preto</code> 5973, 5976	6126, 6158, 6166, 6168
..... 6263, 6265	<code>\bidi@cs@gappto</code> . 5965,	<code>\bidi@dbg@trce</code> . 5982,
<code>\bidi@collect@@body</code>	6287, 6303, 6317, 6327	6028, 6123, 6132, 6140
..... 5348, 5355	<code>\bidi@cs@gpreto</code> .... 5974	<code>\bidi@default</code> .....
<code>\bidi@collect@body</code> 5343	<code>\bidi@cs@let</code> .....	.... 6496, 6501,
<code>\bidi@collect@long@@body</code>	<code>\bidi@cs@letcs</code> .....	6506, 6511, 6517, 6522
..... 5372, 5379	<code>\bidi@cs@name</code> ... 6393,	<code>\bidi@del@tok@from@list</code>
<code>\bidi@collect@long@body</code>	6544, 6550, 6595, 6629	..... 6592
..... 5367	<code>\bidi@cs@preto</code> .....	<code>\bidi@digits</code> ... 4373,
<code>\bidi@column@check@number</code>	<code>\bidi@cs@protect</code> ... 6698	4379, 4380, 4381
.. 26149, 26165,	<code>\bidi@cs@undef</code> .....	<code>\bidi@digits@charclass</code>
26167, 26169, 26181	1561, 1563, 1565,	..... 4375,
<code>\bidi@column@status</code>	1567, 1569, 1589,	4379, 4380, 4381, 4382
.. 4146, 4150, 26151	1591, 1593, 1617,	<code>\bidi@dummies</code> .....
<code>\bidi@column@type</code> .	1619, 1621, 1623,	... 6476, 6478, 6479
.. 26166, 26171, 26182	1625, 1627, 1629,	<code>\bidi@eappto</code> .....
<code>\bidi@columnwidth</code> .	1747, 1749, 1751,	... 5923, 5936, 5964
.. 11667, 11669,	1769, 1771, 1773,	<code>\bidi@empty</code> ... 4389,
12409, 12415,	1806, 1808, 1810,	4390, 6451, 6454, 6455
12696, 12702,	1839, 1854, 2829,	<code>\bidi@empty@stack</code> .
12995, 13001,	2831, 2848, 2850,	..... 6636, 6642
13294, 13300,	2852, 2896, 2898,	<code>\bidi@empty@toks</code> ..
13593, 13599,	2900, 2947, 3021,	... 6649, 6652, 6656
13892, 13898,	3086, 3088, 3090,	<code>\bidi@endpreamblehook</code>
14191, 14197,	3092, 3094, 3096,	..... 6188,
14490, 14496,	3098, 3100, 3192,	6189, 6221, 6223
	3321, 3473, 3499,	



\bidi@ensure@new@command	13835, 13862,	10162, 10221,
..... 5630, 5631	13889, 13901,	15700, 15736,
\bidi@ensure@newcommand	13911, 13961,	16574, 16627,
... 5630, 11878,	14013, 14040,	19230, 19326,
11890, 11896,	14067, 14072,	26158, 26221, 26264
11897, 11901,	14075, 14078,	\bidi@floathook ...
11902, 11903,	14081, 14134,	.. 11668, 14874,
11904, 11916,	14161, 14188,	14927, 14979,
11928, 11950,	14200, 14210,	15030, 15438, 15440
11951, 11956,	14260, 14312,	\bidi@font@@outputpage
11957, 11958,	14339, 14366,	. 15861, 26483, 26525
11959, 11962,	14371, 14374,	\bidi@footdir@footnote
12070, 12072,	14377, 14380,	.. 79, 292, 2388,
12076, 12077,	14433, 14460,	16173, 16175, 16179
12093, 12110,	14487, 14499,	\bidi@footskip ....
12115, 12117,	14509, 14559,	.. 11979, 11986,
12123, 12125,	14611, 14638,	12003, 12010, 15318
12129, 12179,	14665, 14670,	\bidi@fswitch . 6522, 6524
12231, 12258,	14673, 14676,	\bidi@gappto .....
12285, 12290,	14679, 14732,	5317, 5927, 5965,
12293, 12296,	14759, 14786,	6188, 6193, 6196,
12299, 12352,	14798, 14808,	6199, 6202, 6205,
12379, 12406,	14816, 14823,	6208, 6212, 6215,
12418, 12428,	14826, 14834,	6229, 6241, 6254, 6269
12478, 12528,	14846, 15054,	\bidi@gpreto .. 5949, 5974
12553, 12578,	15109, 15139,	\bidi@hooktocmd ...
12583, 12586,	15169, 15173,	... 6135, 6143, 6145
12589, 12592,	15177, 15181,	\bidi@hooktocmd@i .
12643, 12668,	15236, 15265,	..... 6159, 6173
12693, 12705,	15294, 15305,	\bidi@hop@ES .. 6415, 6417
12715, 12765,	15321, 15330,	\bidi@ifafterfinalfootnoteperpage
12817, 12844,	15339, 15346,	..... 12038, 12051
12871, 12876,	15350, 15361, 15362	\bidi@ifblank@i ...
12879, 12882,	\bidi@ensure@newlength	... 5585, 5586, 5588
12885, 12938,	. 5637, 11900, 11960	\bidi@ifdefmacro ..
12965, 12992,	\bidi@epreto .....	..... 5591,
13004, 13014,	... 5945, 5958, 5973	5593, 5594, 5595
13064, 13116,	\bidi@eqs@a .. 6407, 6408	\bidi@ifdefparam ..
13143, 13170,	\bidi@eqs@b .. 6407, 6408	..... 6102,
13175, 13178,	\bidi@EqualString . 6407	6104, 6105, 6106
13181, 13184,	\bidi@EqualStringX 6412	\bidi@ifdefprotected
13237, 13264,	\bidi@error ... 5639,	..... 6111,
13291, 13303,	5891, 6481, 6588, 6757	6113, 6114, 6115
13313, 13363,	\bidi@everyjob . 4215,	\bidi@ifEmpty ..... 6454
13415, 13442,	4218, 4479, 4481	\bidi@ifempty ..... 6452
13469, 13474,	\bidi@expandonce ..	\bidi@ifEmptyX .... 6453
13477, 13480,	5911, 5922, 5926,	\bidi@ifhashcheck .
13483, 13536,	5930, 5934, 5944,	... 5996, 6073, 6156
13563, 13590,	5948, 5952, 5956, 6169	\bidi@ifhashcheck@i
13602, 13612,	\bidi@ff@box 15895, 15913	..... 6077, 6079
13662, 13714,	\bidi@finalfootnoteperpage	\bidi@ifhashcheck@ii
13741, 13768,	..... 12023, 12034	..... 6081,
13773, 13776,	\bidi@firstcolumn@status@write	..... 6084, 6085, 6086
13779, 13782,	.... 4144, 4152,	





<code>\bidi@ifmulticol ..</code>	16631, 19234,	<code>\bidi@looprepeat@zero</code>	... 6715, 6734, 6772
.. 11968, 11978,	19332, 26225, 26270	<code>\bidi@lst@caption@direction</code>	..... 18073,
12002, 15440, 15444	<code>\bidi@leave@mult@copyins</code>		18074, 18086, 18089
<code>\bidi@ifNextChar .. 6462</code>	..... 19567, 19578	<code>\bidi@lst@caption@script</code>	..... 18080,
<code>\bidi@ifpatchable .</code>	<code>\bidi@left@footnoterule</code>		18081, 18097, 18100
... 5985, 5987, 6034	. 18313, 18319, 18324	<code>\bidi@lst@ensure@caption@direction</code>	..... 18084,
<code>\bidi@ifpatchable@i</code>	<code>\bidi@leftskip ....</code>		18109, 18111,
..... 5985, 6006	.. 24599, 24601,		18113, 18132,
<code>\bidi@ifpattern ...</code>	24603, 24604,	<code>\bidi@lst@ensure@caption@script</code>	18136, 18143, 18152
..... 5998, 6089	24714, 24771,		<code>\bidi@lst@ensure@caption@script</code>
<code>\bidi@ifscanable ..</code>	24773, 24809,		. 18095, 18107, 18151
..... 5995,	24810, 24842, 25832	<code>\bidi@LTR@rigidbalance</code>	.. 12120, 12417,
6016, 6057, 6155	<code>\bidi@length@of@csstack</code>		12427, 12704,
<code>\bidi@in@front@of@cslist</code>	... 6637, 6638, 6641		12714, 13003,
..... 6601, 6602	<code>\bidi@length@of@stack</code>		13013, 13302,
<code>\bidi@in@front@of@list</code>	..... 6637, 6651		13312, 13601,
..... 6600	<code>\bidi@local@in@front@of@list</code>		13611, 13900,
<code>\bidi@info .....</code>	..... 6605, 6622		13910, 14199,
..... 5642	<code>\bidi@local@push@onto</code>		14209, 14498,
<code>\bidi@init@multi@footins</code>	..... 6621		14508, 14797, 14807
..... 15426,	<code>\bidi@looprepeat@comp</code>		<code>\bidi@make@eightcol@LTR@footgroup</code>
15443, 15448, 15449	... 6715, 6751, 6756		. 13924, 13949, 14194
<code>\bidi@invert@csstack</code>	..... 6693, 6745		<code>\bidi@make@fivecol@LTR@footgroup</code>
..... 6641	<code>\bidi@looprepeat@csarg</code>		. 13027, 13052, 13297
<code>\bidi@IsEmptyList . 6455</code>	..... 6695,		<code>\bidi@make@fourcol@LTR@footgroup</code>
<code>\bidi@joinfootnotes</code>	6710, 6711, 6712,		. 12728, 12753, 12998
..... 11952,	6713, 6714, 6717,		<code>\bidi@make@peightcol@LTR@footgroup</code>
11953, 11954, 11974	6722, 6723, 6724,		. 13932, 13957, 14205
<code>\bidi@joinmpfootnotes</code>	6725, 6726, 6728,		<code>\bidi@make@mpfivecol@LTR@footgroup</code>
.. 11823, 11860,	6734, 6747, 6749,		. 13035, 13060, 13308
11998, 12073,	6750, 6751, 6758,		<code>\bidi@make@mpfourcol@LTR@footgroup</code>
12074, 12325,	6759, 6761, 6766, 6774		. 12736, 12761, 13009
12327, 12366,	<code>\bidi@looprepeat@csromannumeral</code>		<code>\bidi@make@mpninecol@LTR@footgroup</code>
12393, 12617,	.... 6694, 6718,		. 14231, 14256, 14504
12619, 12656,	6726, 6729, 6745, 6773		<code>\bidi@make@mppara@LTR@footgroup</code>
12681, 12911,	<code>\bidi@looprepeat@depth</code>		.. 14871, 14924,
12913, 12952,	..... 6694,		14977, 15028, 15330
12979, 13210,	6695, 6697, 6709, 6735		<code>\bidi@make@mpsevencol@LTR@footgroup</code>
13212, 13251,	<code>\bidi@looprepeat@dxbody</code>		. 13633, 13658, 13906
13278, 13509,	..... 6718, 6722		<code>\bidi@make@mpsixcol@LTR@footgroup</code>
13511, 13550,	<code>\bidi@looprepeat@setup</code>		. 13334, 13359, 13607
13577, 13808,	..... 6715, 6741		<code>\bidi@make@mpthreecol@LTR@footgroup</code>
13810, 13849,	<code>\bidi@looprepeat@sign</code>		. 14530, 14555, 14803
13876, 14107,	... 6715, 6726, 6756		<code>\bidi@make@mpthreecol@LTR@footgroup</code>
14109, 14148,	<code>\bidi@looprepeat@tmp</code>		. 12449, 12474, 12710
14175, 14406,	6716, 6717, 6744,		<code>\bidi@make@mptwoocol@LTR@footgroup</code>
14408, 14447,	6746, 6749, 6754,		. 12150, 12175, 12423
14474, 14705,	6761, 6764, 6766, 6769		<code>\bidi@make@mpninecol@LTR@footgroup</code>
14707, 14746,	<code>\bidi@looprepeat@traceexit</code>		. 14223, 14248, 14493
14773, 15208,	..... 6700, 6735		
15210, 15251, 15280	<code>\bidi@looprepeat@traceinit</code>		
<code>\bidi@lastcolumn@status@write</code>	..... 6700, 6708		
4148, 4153, 10166,			
10227, 15704,			
15742, 16580,			



\bidi@make@para@LTRfootgroup	\bidi@newcommand ..	25787, 25789, 25790
.. 14862, 14915,	..... 5865, 5867	\bidi@oldwbuskip ..
14965, 15016, 15305	\bidi@newrobustcmd	..... 6587, 6590
\bidi@make@sevendcol@LTRfootgroup	.... 4281, 4283,	\bidi@orig@leftline
. 13625, 13650, 13895	5862, 5863, 5887,	. 26061, 26067, 26068
\bidi@make@sixcol@LTRfootgroup	5898, 5919, 5923,	\bidi@orig@raggedleft
. 13326, 13351, 13596	5927, 5931, 5936,	. 26052, 26054, 26055
\bidi@make@tencol@LTRfootgroup	5937, 5941, 5945,	\bidi@orig@raggedright
. 14522, 14547, 14792	5949, 5953, 5958,	. 26053, 26054, 26055
\bidi@make@threecol@LTRfootgroup	5959, 5963, 5964,	\bidi@orig@rightline
. 12441, 12466, 12699	5965, 5966, 5967,	. 26064, 26067, 26068
\bidi@make@twocol@LTRfootgroup	5968, 5972, 5973,	\bidi@oswitch .....
. 12142, 12167, 12412	5974, 5975, 5976,	6501
\bidi@makecolbf ...	5977, 5981, 6027,	\bidi@p@ftn 4819, 4882,
..... 15400, 15412	6118, 6119, 6131,	4884, 4885, 4887,
\bidi@matrix@check	6139, 6188, 6191,	4888, 4890, 4891,
..... 5399, 25919	6193, 6196, 6199,	4895, 4898, 4901, 5006
\bidi@matrix@error	6202, 6205, 6208,	\bidi@p@ftntext ...
..... 5401, 5405	6212, 6215, 6226,	... 4866, 4883, 4988
\bidi@mopfn@bottom	6229, 6232, 6241,	\bidi@p@LTRftntext
..... 15367,	6254, 6269, 6272,	... 4867, 4886, 4989
15380, 15413, 15414	6286, 6302, 6316,	\bidi@p@RTLftntext
\bidi@mopfootnotebf	6326, 25883, 25890	... 4868, 4889, 4990
..... 15376, 15407	\bidi@next .....	\bidi@p@xfootnote .
\bidi@mpfootnoterule	6428, 6429, 6431,	... 4870, 4904, 4992
2337, 2353, 2369,	6433, 6434, 6436,	\bidi@p@xftntext ..
15951, 16184,	6441, 6443, 6444, 6446	..... 4869,
16199, 16214,	\bidi@NextChar .... 6459	4894, 4909, 4991
16253, 18400, 23976	\bidi@normal@footmarkwidth	\bidi@p@xLTRfootnote
\bidi@mswitch . 6517, 6519	.. 11887, 11943,	... 4872, 4912, 4994
\bidi@multicol@align@columns	11949, 12152,	\bidi@p@xLTRftntext
..... 19454,	12177, 12451,	..... 4871,
19505, 19508, 19510	12476, 12738,	4897, 4917, 4993
\bidi@n@everypar ..	12763, 13037,	\bidi@p@xRTLfootnote
.. 20084, 20085,	13062, 13336,	... 4874, 4920, 4996
20086, 20087,	13361, 13635,	\bidi@p@xRTLftntext
25603, 25788,	13660, 13934,	..... 4873,
25789, 25790, 25791	13959, 14233,	4900, 4925, 4995
\bidi@namedef .....	14258, 14532,	\bidi@page@count ..
6338	14557, 14897,	..... 5260,
\bidi@nameedef .... 6340	14950, 15001, 15052	5261, 5295, 5324
\bidi@namegdef ....	\bidi@notblank . 5587,	\bidi@paraskip 14843,
... 5322, 5644, 6339	5595, 6106, 6115	14892, 14945,
\bidi@namelongdef . 5622	\bidi@nxt@a .....	14997, 15048, 15317
\bidi@namelongedef 5626	... 6460, 6463, 6465	\bidi@patch@AfterFile
\bidi@namelonggdef 5624	\bidi@nxt@b .....	... 7098, 7108, 7122
\bidi@namelongxdef 5628	... 6460, 6463, 6466	\bidi@patch@AfterPackage
\bidi@namexdef .... 6341	\bidi@nxt@c .....	..... 7090,
\bidi@new@command .	... 6461, 6464, 6465	7198, 7203, 8107,
..... 5863,	\bidi@nxt@ch .....	8109, 8112, 8133,
5865, 5894, 5902	... 6460, 6463, 6465	8284, 8334, 8390, 8634
\bidi@new@ifnch ...	\bidi@o@everypar ..	\bidi@patchcmd . 171,
..... 5393, 5395	..... 20083,	179, 188, 348,
\bidi@new@ifnextchar	20085, 20086,	607, 1970, 6027,
..... 5390, 25924		6028, 6244, 6257,



6274, 6291, 6305,	\bidi@prepend@cslst@to@cs	\bidi@raggedleft ..
6329, 7428, 10942,	..... 6575	.... 5173, 5180,
10945, 10962,	\bidi@prepend@list@to@list	5185, 5204, 10641,
10965, 10968,	..... 6571	10757, 15668,
10984, 10987,	\bidi@prepend@to@list	15673, 17041, 26057
10990, 11008,	..... 6568	\bidi@raggedright .
11016, 11024,	\bidi@prepend@toks@cs@to@list	.. 15666, 15671,
11033, 11042,	..... 6578	19589, 19592,
11051, 15666,	\bidi@preto 5941, 5972,	19594, 19597,
15668, 15671,	6218, 15433, 15446	19599, 19601,
15673, 16925,	\bidi@pretocmd . 6139,	19604, 19606,
17825, 17833,	6140, 6319, 6361	19608, 19610,
17841, 17849,	\bidi@PreventPackageFromLoading	19613, 19615,
17857, 17866,	..... 6925	19617, 19619,
17874, 17883,	\bidi@process@envbody	19621, 19624,
18017, 18023,	..... 5345,	19626, 19629,
18031, 18125,	5349, 5350, 5364,	19631, 19634,
18138, 18301,	5369, 5373, 5374, 5388	19636, 19638,
19574, 19721,	\bidi@protected ...	19641, 19643,
19826, 20221,	.... 5914, 5936,	19645, 19648,
23965, 23973, 26288	5937, 5958, 5959,	19650, 19652, 26056
\bidi@patchcmd@scantoks	5967, 5968, 5976, 5977	\bidi@rcol@copyinsskip
... 6045, 6051, 6181	\bidi@protected@cseappto	..... 16537,
\bidi@pdfencrypt@keylength	..... 5967	16542, 16551, 16600
..... 4350, 4402	\bidi@protected@csepreto	\bidi@reflect@box .
\bidi@pdfencrypt@ownerpassword	..... 5976	.. 20161, 20168,
... 4345, 4389, 4401	\bidi@protected@csxappto	25876, 25884, 25891
\bidi@pdfencrypt@permissionflags	..... 5968	\bidi@reinsert@footnotes
..... 4355, 4403	\bidi@protected@csxpreto	. 15430, 15452, 15453
\bidi@pdfencrypt@userpassword	..... 5977	\bidi@reinsertfinalfootnoteperpage
... 4340, 4390, 4400	\bidi@protected@eappto	.. 12050, 12226,
\bidi@pdfm@mark ...	..... 5936	12228, 12256,
..... 4564, 4579	\bidi@protected@epreto	12283, 12523,
\bidi@pickescape .. 6402	..... 5958	12525, 12551,
\bidi@pop@cs@into .	\bidi@protected@immediate@write	12576, 12812,
..... 6625, 6644	... 6984, 6998, 7080	12814, 12842,
\bidi@pop@into 6628, 6654	\bidi@protected@xappto	12869, 13111,
\bidi@pos . 5644, 5652,	..... 5937	13113, 13141,
5680, 5706, 5734,	\bidi@protected@xpreto	13168, 13410,
5760, 5763, 5797, 5800	..... 5959	13412, 13440,
\bidi@poscount . 5646,	\bidi@provide@command	13467, 13709,
5649, 5652, 5669,	..... 5898, 5900	13711, 13739,
5671, 5680, 5694,	\bidi@providerobustcmd	13766, 14008,
5696, 5703, 5706,	..... 5898	14010, 14038,
5723, 5725, 5734,	\bidi@push@begins .	14065, 14307,
5748, 5750, 5757,	... 5352, 5353, 5356	14309, 14337,
5760, 5763, 5780,	\bidi@push@cs@onto@cs	14364, 14606,
5782, 5786, 5788,	..... 6618, 6645	14608, 14636,
5797, 5800, 5814,	\bidi@push@long@begins	14663, 15104,
5816, 5820, 5822,	... 5376, 5377, 5380	15106, 15137, 15167
5829, 5831, 5832,	\bidi@push@onto ... 6619	\bidi@reinsertfootnote
5834, 5835, 5838,	\bidi@push@onto@cs	..... 11750,
5839, 5846, 5848, 5849	..... 6619, 6620	11781, 11992,
\bidi@prepend . 6143, 6186		12052, 12198,



12200,	12243,	6180, 6181, 6182, 6183	14557,	14897,
12270,	12496,	\bidi@resrvdb . 6039, 6040	14950, 15001, 15052	
12498,	12539,	\bidi@restorecatcode	\bidi@startparafotskip	
12564,	12784,	..... 6386,	..... 14842,	
12786,	12829,	7115, 7148, 7165, 7181	14845, 14894,	
12856,	13083,	\bidi@right@footnoterule	14895, 14947,	
13085,	13128,	. 18314, 18317, 18326	14948, 14999, 15050	
13155,	13382,	\bidi@rightskip 24595,	\bidi@step@absolutefootnote@count	
13384,	13427,	24707, 24775,	.. 11749, 11780,	
13454,	13681,	24776, 24788,	12056, 12196,	
13683,	13726,	24792, 24796, 25833	12242, 12269,	
13753,	13980,	\bidi@RTL@everypar	12494, 12538,	
13982,	14025,	.. 15061, 15092,	12563, 12782,	
14052,	14279,	15110, 15126,	12828, 12855,	
14281,	14324,	15140, 15156,	13081, 13127,	
14351,	14578,	15195, 15225,	13154, 13380,	
14580,	14623,	15239, 15254,	13426, 13453,	
14650,	15075,	15268, 15283,	13679, 13725,	
15077, 15123, 15153		20082, 20086,	13752, 13978,	
\bidi@reinserts ...		23714, 25786, 25790	14024, 14051,	
. 15417, 15435, 15436		\bidi@s@tfftextcol	14277, 14323,	
\bidi@releasename .		..... 15892, 15896	14350, 14576,	
4052, 4053, 4054,		\bidi@s@saved@eqno ..	14622, 14649,	
4201, 4262, 4265,		..... 20172,	15073, 15122, 15152	
4268, 4448, 4449,		20174, 20175,	\bidi@storecatcode	
4465, 4555, 4558, 4561		26581, 26583, 26584	..... 6379,	
\bidi@removexfootskip		\bidi@s@saved@leqno .	7112, 7143, 7162, 7178	
.. 11980, 12004,		..... 20173,	\bidi@StorePreventPackageFromLoading	
14855, 14908,		20174, 20175,	..... 6959	
14964, 15015, 15320		26582, 26583, 26584	\bidi@StringBefore 6437	
\bidi@removexparafotskip		\bidi@s@sepmark@charclass	\bidi@StringBeforeNC	
.. 14855, 14908,		..... 4376,	..... 6425	
14964, 15015, 15316		4377, 4378, 4382	\bidi@switch ... 6485,	
\bidi@renew@command		\bidi@s@set@column@status	6496, 6498, 6503	
... 5887, 5889, 5903		. 26153, 26181, 26186	\bidi@switch@exit .	
\bidi@renewrobustcmd		\bidi@s@set@cslist ..	6495, 6496, 6497,	
. 5887, 25887, 25894		..... 6611, 6612	6501, 6502, 6506,	
\bidi@ReplaceClass 7061		\bidi@s@set@list .... 6610	6507, 6511, 6512,	
\bidi@ReplaceInput 7052		\bidi@s@SOUL@ulleaders	6517, 6518, 6522, 6523	
\bidi@ReplacePackage		..... 23755, 23761	\bidi@t@w@w ..... 6546	
..... 7055		\bidi@s@stack@length	\bidi@tabular@RTLCases	
\bidi@ResetPreventPackageFromLoading		6636, 6638, 6639,	..... 25899, 25926	
..... 6953		6643, 6644, 6653, 6654	\bidi@tempcountb ..	
\bidi@resrvda .....		\bidi@s@star@footmarkwidth	..... 6373,	
6037, 6038, 6039,		..... 11887,	6642, 6643, 6652, 6653	
6042, 6043, 6044,		11946, 12152,	\bidi@temptoksa 6374,	
6045, 6046, 6047,		12177, 12451,	6642, 6645, 6646,	
6052, 6055, 6059,		12476, 12738,	6647, 6649, 6652, 6656	
6060, 6061, 6062,		12763, 13037,	\bidi@temptoksb 6375,	
6063, 6065, 6066,		13062, 13336,	6644, 6645, 6646, 6647	
6075, 6077, 6091,		13361, 13635,	\bidi@todonotes@tempa	
6092, 6094, 6096,		13660, 13934,	..... 25479, 25487	
6097, 6175, 6176,		13959, 14233,	\bidi@todonotes@tempb	
6177, 6178, 6179,		14258, 14532,	..... 25479,	



25480, 25487, 25488	\bidi@xargdef . 5869, 5877	\bidipoem@p@LTRftntext
\bidi@tok@SM .. 6593, 6598	\bidi@xparaskip ...	8958, 8969, 9066,
\bidi@toks@lista ..	.. 14837, 14839,	9175, 9189, 17527
6558, 6560, 6561,	14841, 14891,	\bidipoem@p@RTLftntext
6562, 6563, 6594,	14944, 14996, 15047	8959, 8970, 9069,
6596, 6602, 6603,	\bidi@xpreto .....	9176, 9190, 17558
6605, 6607, 6612, 6613	... 5953, 5959, 5975	\bidipoem@p@xfootnote
\bidi@toks@listb ..	\bidicolor .... 9906,	..... 8961,
... 6558, 6594, 6596	9962, 9977, 9979,	8972, 9082, 9178, 9192
\bidi@typesethour .	15893, 25729,	\bidipoem@p@xftntext
4323, 4325, 4326,	25776, 25779, 25780	.... 8960, 8971,
4327, 4330, 4542,	\bidics .....	9073, 9087, 9177, 9191
4544, 4545, 4546, 4549	..... 6370	\bidipoem@p@xLTRfootnote
\bidi@typesetminute	\bididate . 4050, 4054,	..... 8963,
4324, 4327, 4328,	4201, 4262, 4265,	8974, 9089, 9180, 9194
4329, 4331, 4543,	4445, 4465, 4555, 4558	\bidipoem@p@xLTRftntext
4546, 4547, 4548, 4550	\bidiGscale@box ..	.... 8962, 8973,
\bidi@undef ... 2858,	..... 16861, 16862	9076, 9094, 9179, 9193
2881, 2952, 3401,	\bidiGscale@box ...	\bidipoem@p@xRTLfootnote
6047, 6118, 6183,	. 16838, 16839, 16858	..... 8965,
6223, 6238, 24454,	\bidiGscale@box@odd	8976, 9096, 9182, 9196
24455, 24615,	. 16870, 16874, 16880	\bidipoem@p@xRTLftntext
24616, 24865, 24866	\bidiGscale@box@dddd	.... 8964, 8975,
\bidi@undefined ...	..... 16876, 16887	9079, 9101, 9181, 9195
..... 6118, 6120	\bidillap .....	\bidipoem@set@@verse
\bidi@undefinedcs .	..... 26070	... 8885, 8888, 8890
6471, 6478, 6533,	\bidipdfinfooff ... 4576	\bidipoem@set@verseI
6537, 6543, 6547, 6588	\bidipdfinfoon 4575, 4581	..... 8884, 8887
\bidi@UnPreventPackageFromLoading .....	\bidipoem@chvlen ..	\bidipoem@spreadbox
..... 6962	..... 8879,	..... 8874,
\bidi@UnReplaceClass	8885, 8888, 8891, 8900	8896, 8898, 8899, 8900
..... 7064	\bidipoem@half@verses	\bidireleasename ..
\bidi@UnReplaceInput	... 8905, 8906, 8909	..... 4053, 4449
..... 7053	\bidipoem@half@verses@next	\bidirlap .....
\bidi@UnReplacePackage	... 8905, 8906, 8907	..... 26069
..... 7058	\bidipoem@hvind ...	\bidituftefloatDebugInfoNL
\bidi@version .. 4051,	8879, 8882, 8883,	..... 7216,
4054, 4201, 4220,	8891, 8892, 8895, 8898	7304, 7308, 7603, 7652
4222, 4228, 4234,	\bidipoem@hvlen 8878,	\bidituftefloatError
4262, 4265, 4268,	8883, 8885, 8896, 8898	..... 7215, 7698
4447, 4465, 4485,	\bidipoem@hvsep 8878,	\bidituftefloatInfoNL
4487, 4555, 4558, 4561	8891, 8892, 8899	... 7216, 7217, 7767
\bidi@w@w .....	\bidipoem@next 8884, 8885	\bidituftefloatRecalculate
..... 6533	\bidipoem@openbox .	..... 7333, 7344
\bidi@warning .. 5640,	..... 8923, 8928	\bidituftehyperrefLoadHyperref
6296, 6310, 6322, 6334	\bidipoem@p@ftn 8930,	..... 8592, 8603
\bidi@warningnoline	8940, 9064, 9065,	\bidituftesidenotemarginpar
609, 5641, 15667,	9067, 9068, 9070,	... 7783, 8135, 8294
15669, 15672, 15674	9071, 9074, 9077,	\bidituftetocError
\bidi@willbeunhskip	9080, 9185, 17498,	... 8323, 8370, 8379
... 6580, 6587, 6590	17508, 17529,	\bidiversion .. 4220, 4482
\bidi@x@stack@to@list	17539, 17560, 17570	\bigskip .....
..... 6651	\bidipoem@p@ftntext	..... 20243
\bidi@xappto .....	8957, 8968, 9063,	\bl .... 19988, 19989,
... 5931, 5937, 5966	9174, 9188, 17496	19992, 19993,



	19994, 19998,	7572, 7581, 7592,	19235, 19327,
	20053, 20060, 20064	8337, 8341, 8389,	19333, 19470,
<code>\blacktriangleleft</code>		8602, 8739, 8808,	19476, 19491,
. 2842, 16379, 16381		8819, 15907, 19841	19499, 19807,
<code>\blacktriangleright</code>		<code>\botmark</code> . . . 15886, 26567	19815, 19820,
. 2844, 16379, 16381		<code>\box</code> . . 1915, 2033, 2037,	19957, 19961,
<code>\bm@b</code> . . . . . 26130		2039, 2047, 2053,	19977, 20011,
<code>\bm@l</code> . . . . . 26127		2055, 2109, 2113,	20015, 20020,
<code>\bm@r</code> . . . . . 26128		2115, 2135, 2144,	20024, 20036,
<code>\bm@t</code> . . . . . 26129		2146, 2164, 2173,	20047, 20061,
<code>\bmb@box</code> . . 1900, 1905,		2175, 2213, 2217,	20064, 20068,
1906, 1907, 1910,		2219, 2226, 2501,	20073, 20149,
1911, 1915, 1916,		2505, 2553, 2566,	20165, 20210,
1917, 1923, 1924,		2583, 2588, 2959,	20213, 20223,
1936, 1942, 1946, 1961		2965, 3005, 3775,	20231, 21297,
<code>\bmb@colorbox</code> . . . . . 1960		4318, 4536, 7753,	21306, 21344,
<code>\bmb@dima</code> . 1920, 1933,		9813, 9877, 9945,	21355, 23957,
1936, 1937, 1938,		10104, 10107,	24003, 24021,
1939, 1950, 1951, 1952		10124, 10128,	25673, 25674,
<code>\bmb@dimb</code> . . . . . 1921,		10163, 10167,	25684, 25880,
1934, 1935, 1938		10173, 10174,	26072, 26222,
<code>\bmb@lower</code> . . . 1887, 1963		10222, 10228,	26226, 26265,
<code>\bmb@prevheight</code> . . .		10232, 10233,	26271, 26290,
. . . . . 1908, 1917		10459, 10464,	26306, 26438,
<code>\bmb@temp</code> . . . . . 1911,		10471, 10478,	26454, 26465,
1912, 1913, 1915,		10514, 10798,	26478, 26480,
1919, 1920, 1921, 1931		10819, 10835,	26544, 26548, 26578
<code>\bmb@upper</code> . . . 1892, 1902		10892, 12117,	<code>\boxdef</code> . . . . . 4768,
<code>\bmb@width</code> 1901, 1910,		12120, 14820,	4770, 4776, 4781, 4786
1919, 1949, 1950, 1961		14832, 15393,	<code>\boxmaxdepth</code> . . . . .
<code>\bool</code> . . . . . 18428,		15403, 15701,	. . 10790, 10795,
18436, 18567,		15705, 15737,	10811, 10816,
18584, 18585,		15743, 15786,	10843, 10900,
18629, 18635,		15877, 15910,	15363, 15378,
18650, 18673,		15915, 16477,	15635, 16430,
18676, 18696,		16484, 16487,	16432, 16756,
18701, 18713,		16501, 16575,	26293, 26309, 26320
18730, 18731,		16581, 16628,	<code>\br</code> . . . . 19988, 19990,
18734, 18751,		16632, 16671,	19992, 19993,
18776, 18783,		16683, 16694,	19994, 19998,
18789, 18795,		16704, 16717,	20054, 20060, 20068
18805, 18812,		16789, 16806,	<code>\BR@b@bibitem</code> . 7988, 7989
18834, 18946,		16809, 16852,	<code>\BR@bibitem</code> . . 7991, 7992
18949, 18957,		16855, 16885,	<code>\BR@c@bibitem</code> . . . . . 7993
18958, 19722,		16902, 18119,	<code>\bracetext</code> . . . . .
19808, 19810, 19819		18233, 18284,	4285, 4511, 20088,
<code>\boolean</code> . . . . .		18290, 18301,	20089, 25792, 25793
7216, 7276, 7278,		18303, 18305,	<code>\break</code> . . . . . 18190
7281, 7285, 7288,		18646, 18904,	<code>\BreakBibliography</code>
7291, 7316, 7412,		18915, 18920,	. . . . . 21779,
7427, 7438, 7458,		18954, 18955,	21812, 21814,
7465, 7473, 7490,		18956, 18957,	21820, 22540,
7510, 7514, 7532,		18959, 19088,	22573, 22575,
7533, 7536, 7537,		19122, 19231,	22581, 23305,





9317, 9494, 9739,	\c@poem@no . . . . 9015,	701, 719, 912, 945,
11573, 15630,	9057, 9109, 9120	963, 1168, 1184,
15921, 15934,	\c@secnumdepth . 314,	1202, 9219, 9235,
19051, 20487,	589, 598, 9556,	9251, 9396, 9412,
20850, 21041,	9751, 11315,	9428, 9699, 9714,
21223, 22516, 23285	11324, 11585,	11288, 11302,
\c@footnote . . . 128,	15491, 20247, 21235	11557, 15459,
328, 491, 786, 845,	\c@section 2719, 9309,	15474, 17936,
1038, 1097, 1288,	9486, 9743, 11577,	19395, 19407,
1347, 4617, 9330,	15622, 15925,	19419, 20395,
9507, 9644, 11405,	15938, 19039,	20411, 20427,
11502, 15572,	19712, 20479,	20767, 20783,
16262, 16276,	20844, 21044,	20799, 20999,
17311, 17421,	21227, 22505, 23274	21013, 21183,
17429, 17459,	\c@subparagraph 587,	21198, 24150,
17467, 17974,	744, 998, 1257,	24154, 24196,
18264, 18267,	9313, 9490, 9747,	24215, 24237,
20502, 20561,	11458, 11581,	24254, 24271,
20641, 20702,	15626, 15929,	24288, 24580,
20898, 20941,	15942, 19047,	24692, 24730,
21128, 21550,	20483, 20848,	25230, 25426, 26132
21671, 22290,	21048, 21231,	\c@twb . . . . . 10114
22411, 23063, 23184	21766, 22513, 23282	\c@twcompctr . . . . . 10095
\c@Hy@AnnotLevel . .	\c@subsection 584, 741,	\c@twcompodctr . . 10111
. . . . . 17633,	995, 1254, 2720,	\c@twfirst . . . 10096,
17634, 17639, 17643	9310, 9487, 9744,	10102, 10109,
\c@ll@chapseci . . . . 9987	11455, 11578,	10113, 10122, 10125
\c@ll@chapsecii . . . 9982	15623, 15926,	\c@twlftside . . . . . 10100
\c@lofdepth 24305, 24342	15939, 19041,	\c@twlspec . . . . .
\c@lor@error . . . . .	20480, 20845,	. 10114, 10117, 10121
9951, 9958, 9966,	21045, 21228,	\c@twprune . . . 10100,
9972, 25721, 25755	21760, 22507, 23276	10101, 10117, 10121
\c@lotdepth 24323, 24362	\c@subsectionslide 2722	\c@twrounds . . 10112,
\c@lstlisting 18169, 18171	\c@subsubsection 585,	10115, 10118, 10130
\c@LT@chunks . . . . . 18216	742, 996, 1255,	\c@twrtside . . . . . 10101
\c@mpfootnote . . . . .	9311, 9488, 9745,	\c@twslicea . . 10098,
2337, 2353, 2369,	11456, 11579,	10100, 10104,
16184, 16199,	15624, 15927,	10107, 10116,
16214, 16240, 18409	15940, 19043,	10117, 10124, 10128
\c@NAT@ctr . . . . . 19661	20481, 20846,	\c@twsliceb . . 10099,
\c@page . . 8746, 11070,	21046, 21229,	10101, 10104,
11098, 15801,	21762, 22509, 23278	10107, 10120,
15828, 25636, 26434	\c@table . . . . .	10121, 10124, 10128
\c@paragraph . . . 586,	9319, 9496, 9741,	\c@twwinlines 10097, 10110
743, 997, 1256,	11575, 15632,	\c@zabspage . . . . . 15981
9312, 9489, 9746,	15923, 15936,	\cals@activate@rtl 9861
11457, 11580,	19052, 20489,	\cals@AtBeginTable 9878
15625, 15928,	20852, 21043,	\cals@AtEndTable . . 9880
15941, 19045,	21225, 22519, 23288	\cals@backup@row . . 9877
20482, 20847,	\c@thisframe . . . . .	\cals@borderB . . . . . 9876
21047, 21230,	. . 15800, 15805,	\cals@borderL . . . . . 9873
21764, 22511, 23280	15841, 15843, 15844	\cals@borderR . . . . . 9874
\c@part . . . . . 2694	\c@tocdepth . . . . . 3,	\cals@borderT . . . . . 9875
	208, 546, 563, 685,	





<code>\cals@current@context</code>	<code>\caption@begin ...</code>	18245	19075, 19077,
..... 9867	<code>\caption@belowskip</code>	18249	21638, 22378, 23151
<code>\cals@last@context</code>	<code>\caption@end ...</code>	18253	<code>\CenteringLeftskip</code>
9866	<code>\caption@hangindent</code>	9899	<code>\CenteringParfillskip</code>
<code>\cals@paddingL</code>	<code>\caption@ifdefined</code>	18248	..... 20265
. 9883,	<code>\caption@LT@make</code>	18239	<code>\CenteringParindent</code>
9885, 9890, 9892	<code>\caption@LT@settype</code>		..... 20266
<code>\cals@paddingR</code>	<code>\caption@LT@setup</code>	18240	<code>\CenteringRightskip</code>
9887, 9894	<code>\caption@make@above</code>	18250	..... 20263
<code>\cals@set@tohsiz</code>	<code>\caption@make@below</code>	18252	<code>\centerline</code>
<code>\cals@set@cellprevdepth</code>	<code>\caption@makecaption</code>	9896, 18154	317, 16484,
..... 9870	<code>\caption@normalsize</code>	18246	16501, 20176, 26058
<code>\cals@set@padding</code>	<code>\caption@parindent</code>	9899	<code>\cftbeforechapskip</code>
.. 9870	<code>\caption@prepare@stepcounter</code>	18244	24198
<code>\cals@setup@alignment</code>	<code>\caption@setautoposition</code>	18242	<code>\cftbeforefigskip</code>
..... 9854, 9869	<code>\caption@starfalse</code>	18155, 18243	24306
<code>\cals@table@alignment</code>	<code>\caption@starttrue</code>	18156, 18162, 18243	<code>\cftbeforeparaskip</code>
..... 9859, 9860	<code>\captionabove</code>	22023,	24272
<code>\cals@tbreak@tokens</code>	22028, 22785,		<code>\cftbeforepartskip</code>
9864	22790, 23550, 23555		24166
<code>\cals@tfoot@height</code>	<code>\captionbelow</code>	22025,	<code>\cftbeforesecskip</code>
9865	22030, 22787,		..... 24217, 24220
<code>\cals@tfoot@tokens</code>	22792, 23552, 23557		<code>\cftbeforesubfigskip</code>
..... 9863, 9880	<code>\captionformat</code>		..... 24343
<code>\cals@thead@tokens</code>	.. 21913, 21945,		<code>\cftbeforesubparaskip</code>
9862	21956, 21967,		..... 24289
<code>\cals@vfillAdd</code>	21978, 22674,		<code>\cftbeforesubsecskip</code>
. 9855,	22706, 22717,		..... 24238
9857, 9883, 9892	22728, 22739,		<code>\cftbeforesubsubsecskip</code>
<code>\cals@vfillDrop</code>	23439, 23471,		..... 24255
.... 9856, 9857,	23482, 23493, 23504		<code>\cftbeforesubtabskip</code>
9885, 9887, 9890, 9894	<code>\captionlabelfalse</code>	18160	..... 24363
<code>\CAny</code>	<code>\catcode</code>	.. 4446, 4580,	<code>\cftbeforetabskip</code>
..... 4757	6054, 6382, 6383,		24324
<code>\cAny</code>	6384, 6424, 7109,		<code>\cftchapaftersnum</code>
..... 4765	7138, 7159, 7175,		24207
<code>\cap@indent</code>	7960, 7982, 8913,		<code>\cftchapaftersnumb</code>
.....	8914, 8916, 8917,		24208
.. 21952, 21960,	16388, 16389, 16504		<code>\cftchapfillnum</code>
21970, 21973,			.. 24211
21975, 22713,			<code>\cftchapfont</code>
22721, 22731,			..... 24210
22734, 22736,			<code>\cftchapindent</code>
23478, 23486,			.....
23496, 23499, 23501			. 24199, 24202, 24449
<code>\cap@left</code>			<code>\cftchapnumwidth</code>
.... 21884,			.....
21921, 22645,			24205, 24450
22682, 23410, 23447			<code>\cftchappresnum</code>
<code>\cap@margin</code>			.. 24206
.....			<code>\cftchapterprecistoc</code>
. 21840, 22601, 23366			..... 24448
<code>\cap@right</code>			<code>\cftdot</code>
... 21892,			..... 24146
21988, 22653,			<code>\cftdotfill</code>
22749, 23418, 23514			..... 24440
<code>\cap@width</code>			<code>\cftdotsep</code>
... 21869,			..... 24439
21922, 22630,			<code>\cftfigaftersnum</code>
22683, 23395, 23448			.. 24315
<code>\caption</code>			<code>\cftfigaftersnumb</code>
..... 7421,			24316
7422, 7424, 7480,			<code>\cftfigfillnum</code>
17014, 17032,			... 24319
18193, 19126,			<code>\cftfigfont</code>
19128, 21925,			..... 24318
21926, 22686,			<code>\cftfigindent</code>
22687, 23451, 23452			24307, 24310
<code>\caption@make</code>			<code>\cftfignumwidth</code>
... 18251			.. 24313
<code>\caption@@par</code>			<code>\cftfigpresnum</code>
..... 9898			... 24314
			<code>\cftparaaftersnum</code>
			24281
			<code>\cftparaaftersnumb</code>
			24282
			<code>\cftparafillnum</code>
			.. 24285
			<code>\cftparafont</code>
			..... 24284



<code>\cftparaindent</code> . . . . .	<code>\cftsubsubsecftersnumb</code>	10029, 10036,
. . . . . 24273, 24276	. . . . . 24265	10039, 10049,
<code>\cftparanumwidth</code> . 24279	<code>\cftsubsubsecfillnum</code>	10052, 10059,
<code>\cftparapresnum</code> .. 24280	. . . . . 24268	10062, 10072,
<code>\cftpartaftersnum</code> 24176	<code>\cftsubsubsecfont</code> 24267	10075, 10082, 10085
<code>\cftpartaftersnumb</code> 24177	<code>\cftsubsubsecindent</code>	<code>\cite</code> . . . . . 7997,
<code>\cftpartfillnum</code> .. 24180	. . . . . 24256, 24259	8089, 8095, 8096,
<code>\cftpartfont</code> . . . . . 24179	<code>\cftsubsubsecnumwidth</code>	8190, 8195, 8216,
<code>\cftpartindent</code> . . . . .	. . . . . 24262	8224, 8245, 8253,
. . . . . 24168, 24171	<code>\cftsubsubsecpresnum</code>	8274, 8292, 8296,
<code>\cftpartnumwidth</code> . 24174	. . . . . 24263	8301, 8305, 8310,
<code>\cftpartpresnum</code> . . . . .	<code>\cftsubtabaftersnum</code>	8314, 19670, 19671
. . . . . 24175, 24179	. . . . . 24372	<code>\citeasnoun</code> . . . . . 19671
<code>\cftpnmalign</code> . . . . . 24145	<code>\cftsubtabaftersnumb</code>	<code>\citeN</code> . . . . . 19670
<code>\cftsecaftersnum</code> . 24230	. . . . . 24373	<code>\cites</code> . . . . . 8090
<code>\cftsubfigaftersnumb</code> 24231	<code>\cftsubtabfillnum</code> 24376	<code>\cl@ckpt</code> . . . . . 23845
<code>\cftsecfillnum</code> . . . 24234	<code>\cftsubtabfont</code> . . . 24375	<code>\ClassInfo</code> . . . . . 8777,
<code>\cftsecfont</code> . . . . . 24233	<code>\cftsubtabindent</code> . . . . .	8842, 21448,
<code>\cftsecindent</code> 24222, 24225	. . . . . 24364, 24367	21851, 21860,
<code>\cftsecnumwidth</code> .. 24228	<code>\cftsubtabnumwidth</code> 24370	22034, 22187,
<code>\cftsecpresnum</code> . . . 24229	<code>\cftsubtabpresnum</code> 24371	22612, 22621,
<code>\cftsubfigaftersnum</code>	<code>\cfttabaftersnum</code> . 24333	22796, 22960,
. . . . . 24352	<code>\cfttabaftersnumb</code> 24334	23377, 23386, 23561
<code>\cftsubfigaftersnumb</code>	<code>\cfttabfillnum</code> . . . 24337	<code>\ClassWarning</code> . 21621,
. . . . . 24353	<code>\cfttabfont</code> . . . . . 24336	21628, 21650,
<code>\cftsubfigfillnum</code> 24356	<code>\cfttabindent</code> 24325, 24328	21656, 21663,
<code>\cftsubfigfont</code> . . . 24355	<code>\cfttabnumwidth</code> .. 24331	21924, 22361,
<code>\cftsubfigindent</code> . . . . .	<code>\cfttabpresnum</code> . . . 24332	22368, 22390,
. . . . . 24344, 24347	<code>\chapnumfont</code> . . . . . 20246	22403,
<code>\cftsubfignumwidth</code> 24350	<code>\chapter</code> . . . . . 8335,	22685, 23134,
<code>\cftsubfigpresnum</code> 24351	8363, 8433, 8441,	23141, 23163,
<code>\cftsubparaaftersnum</code>	8557, 8563, 9281,	23169, 23176, 23450
. . . . . 24298	9469, 9778, 11613,	<code>\ClassWarningNoLine</code>
<code>\cftsubparaaftersnumb</code>	15517, 20462,	. . . . . 19110
. . . . . 24299	20856, 21050, 21253	<code>\cleardoubleemptypage</code>
<code>\cftsubparafillnum</code> 24302	<code>\chapterheadendvskip</code>	. 21641, 22381, 23154
<code>\cftsubparafont</code> .. 24301	. . . . . 20252	<code>\cleardoublepage</code> . . . . .
<code>\cftsubparaindent</code> . . . . .	<code>\chapterheadstartvskip</code>	. . . . . 8699, 8744,
. . . . . 24290, 24293	. . . . . 20244	8746, 8803, 8816,
<code>\cftsubparanumwidth</code>	<code>\chaptermark</code> . 8820, 24107	8830, 9772, 11607
. . . . . 24296	<code>\chaptername</code> . . 318, 19059	<code>\clearpage</code> . 645, 661,
<code>\cftsubparapresnum</code> 24297	<code>\chapterstyle</code> . . . . . 19054	910, 1162, 6258,
<code>\cftsubsecaftersnum</code>	<code>\char</code> 4383, 4740, 4741, 6370	6259, 6263, 6264,
. . . . . 24247	<code>\chardef</code> . . . . . 6369,	7699, 8711, 8746,
<code>\cftsubsecaftersnumb</code>	16388, 18073,	8832, 9213, 9390,
. . . . . 24248	18074, 18080, 18081	9600, 9774, 11609,
<code>\cftsubsecfillnum</code> 24251	<code>\check@floats</code> . . . . . 10539	20371, 20626,
<code>\cftsubsecfont</code> . . . 24250	<code>\CheckCommand</code> 17418, 17456	21085, 21643,
<code>\cftsubsecindent</code> . . . . .	<code>\checkoddpaper</code> . . . . . 7315	22383, 23156, 24141
. . . . . 24239, 24242	<code>\CIIIAny</code> . . . . . 4758	<code>\clip</code> . . . . . 3425, 3448
<code>\cftsubsecnumwidth</code> 24245	<code>\ciiiiAny</code> . . . . . 4766	<code>\clipbox@</code> . . . . . 20212
<code>\cftsubsecpresnum</code> 24246	<code>\circle</code> . . . . . 10003,	<code>\clist</code> . . . . . 6917,
<code>\cftsubsubsecaftersnum</code>	10006, 10013,	6923, 6927, 6928,
. . . . . 24264	10016, 10026,	6936, 6937, 6950,



6955, 6956, 6960,	4653, 4654, 4655,	13831, 13844,
6964, 6965, 6967,	4656, 4657, 5173,	13858, 13871,
6969, 7005, 7009,	9947, 9950, 9953,	13885, 13973,
7010, 7014, 7017,	9971, 9974, 10639,	14003, 14019,
7021, 7022, 7026,	10642, 10652,	14034, 14046,
7029, 7033, 7034,	10770, 18372, 25686	14061, 14101,
7038, 7043, 7044, 7048	\color@ . . . . 25726, 25773	14130, 14143,
\CloneTOCEntryStyle	\color@b@x . . . . .	14157, 14170,
. . . . . 22040,	9939, 9977, 9979,	14184, 14272,
22053, 22071,	25679, 25776, 25779	14302, 14318,
22080, 22802,	\color@begingroup .	14333, 14345,
22815, 22834,	. . . . . 1992,	14360, 14400,
22843, 23567,	2297, 2314, 2331,	14429, 14442,
23580, 23599, 23608	2347, 2363, 2379,	14456, 14469,
\closing . . . . . 11647	8145, 8163, 8181,	14483, 14571,
\clubpenalty . . . . .	9183, 9197, 11744,	14601, 14617,
. . . 92, 305, 624,	11760, 11775,	14632, 14644,
625, 758, 1021,	11791, 11806,	14659, 14699,
1271, 2671, 2672,	11819, 11832,	14728, 14741,
5250, 9031, 9293,	11844, 11856,	14755, 14768,
9481, 9791, 9792,	11869, 12191,	14782, 15068,
11354, 11626,	12221, 12237,	15099, 15117,
11627, 15529,	12252, 12264,	15133, 15147,
17901, 19667,	12279, 12319,	15163, 15202,
20474, 20868,	12348, 12361,	15232, 15246,
21063, 21064,	12375, 12388,	15261, 15275,
21266, 21267,	12402, 12490,	15290, 15369,
21806, 22567,	12519, 12534,	15382, 16133,
23332, 24079, 24080	12548, 12559,	16150, 16166,
\coffeefont . . . . . 19415	12573, 12612,	16194, 16209,
\col@number . . . 132,	12640, 12652,	16224, 16236,
137, 139, 142,	12665, 12677,	16724, 16734,
143, 150, 497, 851,	12690, 12777,	16741, 18256,
1103, 1353, 9650,	12807, 12823,	18346, 26296,
11411, 11508,	12838, 12850,	26312, 26323, 26331
11969, 11978,	12865, 12905,	\color@block . 9944, 25684
12002, 15427,	12934, 12947,	\color@box . . 9977, 25776
15428, 15578,	12961, 12974,	\color@endbox . . 5007,
19017, 19357,	12988, 13076,	7819, 7863, 7907,
19439, 19444,	13106, 13122,	21369, 21379,
19518, 19519,	13137, 13149,	21397, 26376,
19521, 19524,	13164, 13204,	26420, 26541, 26557
19525, 19532,	13233, 13246,	\color@endgroup . . .
20567, 20708,	13260, 13273,	. . . . 2022, 2300,
20952, 21134,	13287, 13375,	2317, 2334, 2350,
21676, 22416, 23189	13405, 13421,	2366, 2382, 8149,
\col@sep 391, 444, 9902,	13436, 13448,	8167, 8185, 9185,
9903, 18205, 25903	13463, 13503,	11746, 11762,
\color 1601, 1604, 1641,	13532, 13545,	11777, 11793,
1673, 1696, 1717,	13559, 13572,	11808, 11821,
1738, 1784, 1925,	13586, 13674,	11834, 11846,
1927, 1966, 2061,	13704, 13720,	11858, 11871,
2729, 2734, 2809,	13735, 13747,	12090, 12193,
2969, 3634, 4652,	13762, 13802,	12223, 12239,



12254,	12266,	15135,	15149,	19227,	19329,
12281,	12321,	15165,	15204,	19472,	19483,
12350,	12363,	15234,	15248,	20363,	20618,
12377,	12390,	15263,	15277,	21077,	26218, 26267
12404,	12492,	15292,	15373,	<code>\columnseprulecolor</code>	
12521,	12536,	15386,	16136,	..... 19471, 19482	
12550,	12561,	16153,	16169,	<code>\columnwidth</code> .... 28,	
12575,	12614,	16197,	16212,	41, 55, 71, 242,	
12642,	12654,	16227,	16257,	254, 268, 283, 578,	
12667,	12679,	16727,	16737,	582, 772, 1006,	
12692,	12779,	16744,	26300,	1252, 2290, 2307,	
12809,	12825,	26315, 26327, 26334		2324, 2343, 2359,	
12840,	12852,	<code>\color@fb@x</code> 25777, 25778		2375, 4295, 4301,	
12867,	12907,	<code>\color@fb@x</code> . 9978, 25777		4997, 9307, 9460,	
12936,	12949,	<code>\color@hbox</code> .....		9730, 9734, 9842,	
12963,	12976,	.. 21366, 21376,		10157, 10161,	
12990,	13078,	21394, 26538, 26554		10165, 10169,	
13108,	13124,	<code>\color@setgroup</code> ...		10220, 10226,	
13139,	13151,	..... 9980, 25781		10454, 10458,	
13166,	13206,	<code>\color@vbox</code> .....		10463, 10468,	
13235,	13248,	4985, 7810, 7854,		10470, 10477,	
13262,	13275,	7898, 26367, 26411		10788, 10809,	
13289,	13377,	<code>\colorA</code> .. 9558, 9567, 9579		11361, 11365,	
13407,	13423,	<code>\colorB</code> .....	9564,	11660, 11664,	
13438,	13450,	9570, 9576, 9582		11669, 11711,	
13465,	13505,	<code>\colorblend</code> .. 25693,		11741, 11757,	
13534,	13547,	25694, 25736, 25737		11772, 11788,	
13561,	13574,	<code>\colorbox</code> .....	2045,	11803, 11816,	
13588,	13676,	4813, 4815, 4816		11829, 11841,	
13706,	13722,	<code>\colorlet</code> .....	1889,	11853, 11866,	
13737,	13749,	1894, 1964, 1965,		12316, 12345,	
13764,	13804,	1994, 1996, 2985, 3025		12358, 12372,	
13833,	13846,	<code>\columncolor</code> .. 1507, 9910		12385, 12399,	
13860,	13873,	<code>\columnsep</code> 99, 229, 638,		12609, 12637,	
13887,	13975,	654, 903, 1155,		12649, 12662,	
14005,	14021,	4600, 5082, 9206,		12674, 12687,	
14036,	14048,	9383, 9593, 10168,		12902, 12931,	
14063,	14103,	10467, 15706,		12944, 12958,	
14132,	14145,	16633, 17909,		12971, 12985,	
14159,	14172,	19237, 19354,		13201, 13230,	
14186,	14274,	19447, 19493,		13243, 13257,	
14304,	14320,	20364, 20619,		13270, 13284,	
14335,	14347,	21078, 25641,		13500, 13529,	
14362,	14402,	25646, 25650,		13542, 13556,	
14431,	14444,	25656, 25659, 26227		13569, 13583,	
14458,	14471,	<code>\columnseprule</code> .....		13799, 13828,	
14485,	14573,	... 99, 229, 637,		13841, 13855,	
14603,	14619,	653, 902, 1154,		13868, 13882,	
14634,	14646,	4601, 5083, 9205,		14098, 14127,	
14661,	14701,	9382, 9592, 10159,		14140, 14154,	
14730,	14743,	10224, 10456,		14167, 14181,	
14757,	14770,	10475, 15698,		14397, 14426,	
14784,	15070,	15739, 16577,		14439, 14453,	
15101,	15119,	16624, 17909,		14466, 14480,	



14696,	14725,	\Coordn . . . . .	4755	14517,	14521,
14738,	14752,	\coordn . . . . .	4760	14542,	14546,
14765,	14779,	\Coordx . . . . .	4751,	14854,	14861,
14878,	14931,	4754, 4755, 4756,		14907,	14914,
14983,	15034,	4757, 4758, 4759,		14963,	15014,
15198,	15228,	4760, 4761, 4765, 4766		15418,	15427,
15242,	15257,	\coordx . . . . .	4762	15811,	16539,
15271,	15286,	\Coordy . . . . .	4752,	16548,	16550,
15510,	15514,	4754, 4755, 4756,		16597,	16599,
15697,	15699,	4757, 4758, 4759,		16926,	16932,
15703,	15707,	4760, 4761, 4765, 4766		26352, 26396, 26504	
15735,	15741,	\coordy . . . . .	4763	\count@ . . . . .	1447,
16039,	16042,	\Coordz . . . . .	4753,	1506, 5414, 5419,	
16044,	16129,	4756, 4758, 4761, 4766		5430, 5434, 9908,	
16146,	16162,	\coordz . . . . .	4764	19434,	19435,
16190,	16205,	\copy . . . . .	1942, 7806,	19437,	19439,
16220,	16238,	7850, 7894, 9846,		19446,	19467,
16519,	16526,	10137, 10200,		19468,	19470,
16573,	16579,	10309, 10799,		19487,	19488,
16622,	16626,	10820, 15680,		19491,	19776,
16630,	16634,	15716, 16547,		19784, 19797, 23884	
16986,	16987,	16596, 16797,		\counterwithout	19055,
17923,	17997,	16843, 18281,		19056, 19057, 19058	
18001,	18311,	18293, 18297,		\coverpagebottommargin	
18349,	19225,	19159, 19259,		. 21530, 22270, 23043	
19229,	19233,	20081, 20164,		\coverpageleftmargin	
19236,	19325,	20254, 25879,		. . 21525, 21526,	
19331,	19354,	26196, 26243,		21528, 22265,	
19383,	19389,	26363, 26407, 26470		22266, 22268,	
19551,	19555,	\cor@height . .	19182,	23038, 23039, 23041	
19559,	19563,	19183, 19210,		\coverpagerightmargin	
20459,	20882,	19211, 19250,		. 21528, 22268, 23041	
21032,	21036,	19282, 19283,		\coverpagetopmargin	
21214,	21218,	19310, 19311, 19347		. . . . . 21524,	
21498,	21537,	\count . . . . .	4290, 4516,	21530, 22264,	
21538,	22238,	4980, 6688, 7795,		22270, 23037, 23043	
22277,	22278,	7839, 7883, 11970,		\cr 418, 8978, 8985, 9041,	
23011,	23050,	12102, 12107,		12119, 12122,	
23051,	26216,	12137, 12141,		12124, 18220,	
26220,	26224,	12162, 12166,		23790, 23828, 26104	
26228,	26263,	12436, 12440,		\crrc . . . . .	4879, 8981,
26269, 26459, 26461		12461, 12465,		23778, 23808,	
\contentslabel . 8394,		12723, 12727,		25914, 25917, 26091	
8401, 8408, 8415, 8422		12748, 12752,		\CROP@llc . . . . .	10045
\contentsline . . . . .	17249	13022, 13026,		\CROP@lrc . . . . .	10068
\contentsmargin . .	24043	13047, 13051,		\CROP@ulc . . . . .	9999
\contentspush . . . .	24017	13321, 13325,		\CROP@urc . . . . .	10022
\convertcolorspec .		13346, 13350,		\CROP@execopt . . . .	10092
. . . . .	25700,	13620, 13624,		\cs . . . . .	6972,
25703, 25743, 25746		13645, 13649,		6983, 6984, 6986,	
\Coord . . . . .	4754	13919, 13923,		6997, 6998, 7000,	
\coord . . . . .	4759	13944, 13948,		18485, 18536,	
\CoordIII . . . . .	4756	14218, 14222,		18554, 18608,	
\coordiii . . . . .	4761	14243, 14247,			



18623,	18911,	8210, 8239, 8268,	14271,	14301,
18913, 19804, 19805		8510, 9036, 9064,	14317,	14332,
\cs@a . . . . . 6455		9067, 9070, 9084,	14344,	14359,
\csname 8, 44, 58, 74, 166,		9091, 9098, 9106,	14399,	14428,
168, 198, 213, 257,		9107, 9145, 9170,	14441,	14455,
271, 286, 343, 344,		9171, 9953, 9959,	14468,	14482,
398, 1410, 2296,		9967, 9974, 11743,	14570,	14600,
2313, 2330, 2346,		11759, 11774,	14616,	14631,
2362, 2378, 2411,		11790, 11805,	14643,	14658,
2437, 2463, 2482,		11818, 11831,	14698,	14727,
2511, 4842, 4843,		11843, 11855,	14740,	14754,
4857, 4858, 4884,		11868, 12035,	14767,	14781,
4887, 4890, 4906,		12190, 12220,	15066,	15097,
4914, 4922, 4977,		12236, 12251,	15115,	15131,
5264, 5267, 5270,		12263, 12278,	15145,	15161,
5272, 5274, 5277,		12318, 12347,	15200,	15230,
5280, 5288, 5289,		12360, 12374,	15244,	15259,
5294, 5301, 5303,		12387, 12401,	15273,	15288,
5305, 5306, 5307,		12489, 12518,	15637,	15788,
5308, 5311, 5313,		12533, 12547,	15789,	15795,
5317, 5319, 5348,		12558, 12572,	15796,	15901,
5349, 5372, 5373,		12611, 12639,	15902,	15903,
5400, 5421, 5425,		12651, 12664,	15904,	15906,
5436, 5440, 5444,		12676, 12689,	15908,	15909,
5448, 5459, 5467,		12776, 12806,	15910,	15911,
5475, 5483, 5485,		12822, 12837,	15913,	15914,
5487, 5491, 5492,		12849, 12864,	15915,	15971,
5556, 5598, 5608,		12904, 12933,	15995,	16013,
5614, 5615, 5617,		12946, 12960,	16099,	16108,
5618, 5620, 5621,		12973, 12987,	16131,	16148,
5623, 5625, 5627,		13075, 13105,	16164,	16193,
5629, 5831, 5832,		13121, 13136,	16208,	16223,
5834, 5835, 5838,		13148, 13163,	16270,	16285,
5839, 5848, 5849,		13203, 13232,	17251,	17254,
5884, 5885, 5908,		13245, 13259,	17256,	17260,
5963, 5964, 5965,		13272, 13286,	17264,	17278,
5966, 5972, 5973,		13374, 13404,	17289,	17300,
5974, 5975, 6120,		13420, 13435,	17500,	17531,
6291, 6292, 6294,		13447, 13462,	17562,	17941,
6305, 6306, 6308,		13502, 13531,	19139,	19140,
6319, 6329, 6338,		13544, 13558,	19147,	21410,
6339, 6340, 6341,		13571, 13585,	21414,	21418,
6364, 6388, 6393,		13673, 13703,	21501,	21725,
6397, 6413, 6431,		13719, 13734,	22043,	22045,
6433, 6441, 6443,		13746, 13761,	22047,	22050,
6452, 6453, 6533,		13801, 13830,	22056,	22064,
6537, 6570, 6572,		13843, 13857,	22066,	22068,
6583, 6584, 6598,		13870, 13884,	22074,	22076,
6606, 6608, 6635,		13972, 14002,	22149,	22153,
6656, 6693, 6694,		14018, 14033,	22157,	22241,
6695, 6711, 6712,		14045, 14060,	22465,	22805,
6713, 6714, 7542,		14100, 14129,	22807,	22809,
7543, 7550, 7551,		14142, 14156,	22812,	22818,
8143, 8161, 8179,		14169, 14183,	22826,	22828,



22831,	22837,	\CT@do@color . . . . . 9905	10352,	10402,
22839,	22922,	\CT@cell@color 1531,9930	10414,	10420,
22926,	22930,	\CT@color . . . . . 9904	10432,	10436,
23014,	23238,	\CT@column@color . .	10442,	10539,
23570,	23572,	. . . . . 1529,9928	10540,	10541, 10545
23574,	23577,	\CT@do@color . . . . .	\cuted@tempdim@b .	
23583,	23591,	. . . 1532,9905,9931	. . . . . 10305,	
23593,	23596,	\CT@extract . . 1507,9910	10308,	10310,
23602,	23604,	\CT@row@color . 1530,9929	10313,	10317,
23780,	23806,	\CT@setup . . . . . 1496,	10329,	10347,
23808,	23840,	1497, 1499, 1500,	10371,	10379,
23862,	23864,	1504,1528,9901,9927	10385,	10392,
23880,	23881,	\cumpartcl . . . . . 19985	10401,	10403,
23901,	23908,	\cumtcl . . . . . 19985	10428,	10431, 10433
24124,	24389,	\curraddr . . . . . 332	\cuted@tempdim@spread	
24390,	24406,	\current@color . . . . .	. . 10320,10321,	
24407,	24408,	. . . . 9946,9952,	10322,	10323,
24415,	24417,	9959, 9967, 9973,	10330,	10334,
24418,	24471,	16366, 16371,	10337,	10340,
24472,	24630,	25685, 25722,	10341,	10343,
24631,	24735,	25723, 25727,	10348,	10359,
24760,	24787,	25756, 25757, 25774	10369,	10372,
24791,	24795,	\CurrentOption . . . . .	10377,	10380,
24852,	24904,	8758, 8759, 8760,	10384,	10388,
24907,	24921,	8761, 8762, 8782,	10405,	10407, 10409
24937,	24938,	8783, 8784, 8785,	\cuted@varbox@a . .	
24954,	24961,	8786, 10585, 10683	. . 10309,10310,	
24966,	24984,	\currentposxwidth . 5828	10316,	10317,
24985,	24997,	\currentposyheight 5845	10345,	10351,
24998,	25053,	\CustomFBox . . . . . 16368	10354,	10362,
25108,	25110,	\cuted@column@badness	10431,	10464, 10478
25112,	25128,	. . . . . 10332,	\cuted@varbox@c . .	
25131,	25137,	10333, 10346, 10357	. . . . . 10316,	
25139,	25142,	\cuted@page@rule .	10317,	10322,
25146,	25151,	. . . . . 10412,10413	10323,	10327,
25155,	25159,	\cuted@tempbox@a .	10328,	10351,
25173,	25177,	. . . . . 10273,	10354,	10358,
25180,	25184,	10283, 10310,	10361,	10362,
25189,	25193,	10312, 10313,	10363,	10365, 10390
25198,	25200,	10401, 10459, 10471	\cuted@wlog@debug	
25201,	25204,	\cuted@tempbox@c .	. . 10324,10350,	
25208,	25258,	. . 10312,10313,	10352,	10361, 10365
25260,	25267,	10320, 10321,	\cvcomputer . . . . . 5205	
25268,	25272,	10325, 10326,	\cvdoubleitem . 5182,5206	
25277,	25281,	10341, 10345,	\cventry . . . . . 5194	
25292,	25293,	10355, 10371,	\cvlanguage . . . . . 5203	
25297,	25303,	10389, 10400,	\cvline 5177,5178,5183,	
25358,	25359,	10403, 10405, 10406	5187,5189,5195,5204	
25363,	25459,	\cuted@tempbox@var	\cvlistdoubleitem . 5188	
25460,	25462,	. 10451,10489,10501	\cvlistitem . . . . . 5186	
25465,	25466,	\cuted@tempdim@a .	\cvtheme . . . . . 5120,5123	
25470,	25944,	. . 10341,10343,		
26009,	26093,	10345, 10347,		
26154,	26167, 26169	10350, 10351,		

D

\d . . . . . 18455



<code>\dollarbegin</code> . . . . .	4739, 4740, 4741,	2192, 2201, 2208,
. . 391, 445, 1451,	4742, 4743, 4744,	2210, 2222, 2230,
1452, 1453, 1516,	4745, 7555, 7562,	2240, 2249, 2250,
1519, 1520, 9915,	9947, 9962, 15754,	2252, 2262, 2271,
9918, 9919, 25903	15764, 25686,	2272, 2275, 2276,
<code>\dollarend</code> . . . . .	25729, 26058,	2277, 2280, 2281,
. . 392, 445, 1451,	26067, 26068,	2282, 2398, 2399,
1452, 1453, 1518,	26069, 26070, 26076	2400, 2405, 2409,
1519, 1520, 9917,	<code>\DeclareSectionCommand</code>	2424, 2425, 2426,
9918, 9919, 25904	. . . . . 22082,	2431, 2435, 2450,
<code>\dashgapcolor</code> . . . . . 1511	22092, 22100,	2451, 2452, 2457,
<code>\date</code> . . . 485, 521, 828,	22110, 22120,	2461, 2472, 2476,
873, 1080, 1125,	22131, 22845,	2595, 2606, 2615,
1330, 1375, 4635,	22853, 22864,	2626, 2640, 2675,
8624, 8672, 9372,	22873, 22883,	2682, 2688, 2692,
9549, 9638, 9674,	22893, 22904,	2752, 2775, 2795,
11399, 11433,	23610, 23618,	3311, 3313, 3368,
11496, 11532,	23629, 23638,	3376, 3647, 4050,
15566, 15600,	23648, 23658, 23669	4051, 4052, 4144,
20544, 20589,	<code>\DeclareTOCEntryStyle</code>	4148, 4282, 4284,
20685, 20732,	. 24456, 24617, 24867	4285, 4340, 4345,
20935, 20976,	<code>\dedication</code> . . . . .	4350, 4355, 4445,
21122, 21158,	. 21752, 22492, 23265	4447, 4448, 4449,
21753, 22493, 23266	<code>\dedicatory</code> . . . . . 333	4482, 4499, 4507,
<code>\day</code> . . . . . 3324	<code>\def</code> . . . . . 2, 23, 26, 30,	4508, 4509, 4510,
<code>\deadcycles</code> . . 6275, 6278	34, 48, 64, 95, 98,	4511, 4517, 4518,
<code>\debug</code> . . . . . 6981,	107, 108, 109, 110,	4525, 4541, 4549,
6987, 6995, 7001	122, 132, 133, 135,	4550, 4551, 4552,
<code>\debugfootnotedirection</code>	207, 228, 237, 238,	4553, 4554, 4557,
. . . . . 15958	239, 240, 244, 247,	4560, 4564, 4575,
<code>\declare@file@substitution</code>	261, 276, 308, 311,	4576, 4579, 4588,
. . . 7052, 7056, 7062	323, 329, 346, 355,	4593, 4618, 4619,
<code>\DeclareCaptionFont</code> 1871	360, 362, 387, 394,	4747, 4748, 4749,
<code>\DeclareCaptionJustification</code>	400, 435, 444, 445,	4751, 4752, 4753,
. . . . . 1876	492, 493, 524, 588,	4754, 4755, 4756,
<code>\DeclareOption</code> . . . .	628, 760, 783, 784,	4757, 4758, 4759,
. . . . 5012, 5015,	792, 831, 832, 834,	4760, 4761, 4762,
5018, 5021, 5024,	839, 841, 846, 848,	4763, 4764, 4765,
5027, 5030, 5035,	876, 1023, 1035,	4766, 4771, 4782,
5036, 5037, 5038,	1036, 1044, 1083,	4813, 4814, 4815,
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7222, 7224, 7227,	1093, 1098, 1099,	4835, 4843, 4848,
7232, 8329, 8330,	1128, 1273, 1285,	4850, 4858, 4863,
8588, 8589, 8614,	1286, 1294, 1333,	4864, 4879, 4883,
8615, 8758, 8759,	1334, 1336, 1341,	4886, 4889, 4894,
8760, 8761, 8762,	1343, 1348, 1350,	4897, 4900, 4904,
8782, 8783, 8784,	1378, 1398, 1408,	4912, 4920, 4927,
8785, 8786, 10575,	1409, 1412, 1418,	4929, 4930, 4932,
10577, 10579,	1446, 1459, 1460,	5001, 5095, 5096,
10581, 10583,	1463, 1476, 1484,	5097, 5098, 5099,
10584, 10673,	1492, 1493, 1496,	5100, 5102, 5103,
10675, 10677,	1497, 1500, 1505,	5121, 5122, 5125,
10679, 10681, 10682	1978, 1991, 2061,	5126, 5127, 5128,
<code>\DeclareRobustCommand</code>	2104, 2105, 2181,	5129, 5130, 5131,





5132, 5133, 5134,  
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5253, 5322, 5342,  
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5477, 5484, 5486,  
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6173, 6176, 6177,  
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6237, 6264, 6281,  
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6412, 6414, 6417,  
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6431, 6433, 6434,  
6441, 6443, 6444,  
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6610, 6612, 6618,  
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7976, 7981, 8107,  
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8252, 8472, 8509,  
8517, 8746, 8884,  
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9122, 9125, 9130,  
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9946, 9949, 9956,

9964, 9970, 9977,  
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11968, 11974,  
11992, 11998,  
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12956, 12969,



12983,	12994,	15157,	15196,	17309,	17319,
13000,	13006,	15226,	15240,	17330,	17341,
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13609,	13669,	16054,	16058,	17777,	17779,
13699,	13715,	16067,	16069,	17782,	17791,
13730,	13742,	16076,	16077,	17792,	17796,
13757,	13797,	16094,	16097,	17798,	17799,
13826,	13839,	16103,	16106,	17800,	17802,
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14424,	14437,	16646,	16682,	18266,	18271,
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14495,	14501,	16795,	16811,	18407,	18408,
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14596,	14612,	16825,	16838,	19065,	19067,
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14723,	14736,	16862,	16864,	19256,	19353,
14750,	14763,	16865,	16880,	19361,	19394,
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14794,	14800,	16948,	16949,	19432,	19465,
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14842,	15062,	16961,	16997,	19518,	19549,
15093,	15111,	17249,	17276,	19553,	19557,
15127,	15141,	17287,	17298,	19561,	19565,



19567,	19675,	21758,	21810,	25866,	25867,
19689,	19691,	21817,	21843,	25868,	25869,
19698,	19704,	22006,	22023,	25871,	25873,
19792,	19844,	22025,	22161,	25875,	25876,
19848,	19852,	22191,	22193,	25899,	25901,
19854,	19870,	22223,	22243,	25906,	25908,
19882,	19896,	22497,	22571,	25914,	25916,
19946,	19952,	22578,	22604,	25923,	25925,
19959,	20078,	22768,	22785,	25928,	25930,
20079,	20081,	22787,	22934,	25931,	25932,
20082,	20088,	22964,	22966,	25933,	25935,
20089,	20090,	22996,	23016,	25945,	25982,
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20127,	20128,	23533,	23550,	26073,	26086,
20129,	20130,	23552,	23701,	26091,	26094,
20131,	20136,	23703,	23708,	26114,	26117,
20137,	20140,	23710,	23713,	26127,	26128,
20142,	20143,	23717,	23734,	26129,	26130,
20144,	20145,	23755,	23758,	26131,	26151,
20147,	20148,	23773,	23778,	26153,	26186,
20161,	20167,	23781,	23804,	26193,	26240,
20174,	20175,	23808,	23812,	26340,	26354,
20176,	20177,	23822,	23838,	26357,	26361,
20178,	20180,	23844,	23852,	26365,	26378,
20181,	20307,	23873,	23882,	26384,	26398,
20328,	20334,	23883,	23899,	26401,	26405,
20354,	20355,	23903,	23906,	26409,	26422,
20476,	20499,	23910,	23913,	26428,	26468,
20500,	20508,	23943,	23988,	26472,	26473,
20547,	20548,	24022,	24044,	26474,	26475,
20550,	20555,	24050,	24053,	26485,	26571,
20557,	20562,	24055,	24058,	26583,	26584,
20564,	20592,	24083,	24790,	26586,	26757, 26759
20638,	20639,	24814,	25425,	\default@color . . .	
20647,	20688,	25446,	25448,	. . . . . 9946, 25685	
20689,	20691,	25604,	25647,	\DefaultOptionsFile	
20696,	20698,	25650,	25656,	. 18006, 18008, 18011	
20703,	20705,	25660,	25679,	\defbeamertemplate	
20735,	20757,	25685,	25688,	. . . . . 1571,	
20870,	20899,	25710,	25719,	1574, 1578, 1581,	
20901,	20942,	25725,	25731,	1584, 1595, 1609,	
20944,	20979,	25753,	25759,	1612, 1631, 1649,	
21067,	21129,	25768,	25772,	1654, 1661, 1684,	
21130,	21161,	25776,	25777,	1705, 1726, 1753,	
21232,	21244,	25778,	25781,	1759, 1763, 1775,	
21270,	21274,	25786,	25792,	1793, 1799, 1812,	
21317,	21364,	25793,	25794,	1821, 1830, 1841,	
21367,	21374,	25804,	25814,	1856, 2833, 2836,	
21377,	21385,	25823,	25834,	2854, 2855, 2856,	
21392,	21395,	25835,	25844,	2860, 2867, 2874,	
21422,	21452,	25845,	25854,	2883, 2902, 2917,	
21454,	21483,	25855,	25860,	2932, 2949, 2954,	
21503,	21757,	25861,	25864,	3023, 3102, 3106,	



3133, 3142, 3145,	\depthof . . . . . 11133,	10795, 10800,
3154, 3157, 3166,	11138, 11147,	10811, 10816,
3194, 3326, 3403,	11148, 11152, 11157	10821, 10843,
3475, 3501, 3552,	\descriptionlabel . 8550	10846, 10900, 10903
3588, 3618, 3666,	\DetectColumn 26157, 26161	\dfn@footnoterule .
3700, 3736, 3792,	\detokenize . . . . .	. . . . . 10884, 10936
3831, 3880, 3927, 3973	5592, 5594, 6038,	\dfn@footnotetext 10785
\deffootnote . . 21420,	6040, 6041, 6060,	\dfn@gobble 10787, 10808
21485, 22159,	6075, 6092, 6095,	\dfn@ins . . . . . 10795,
22225, 22932, 22998	6103, 6105, 6176, 6177	10796, 10797,
\define@choicekey .	\dfn@afteroutput . .	10799, 10816,
. . . . . 25479, 25487	. . . . . 10877,	10817, 10818,
\define@key . 2681, 25477	10880, 10929, 10932	10820, 10834,
\definecolor . . . 4642,	\dfn@boxa . . . . 10786,	10835, 10891, 10892
4643, 4644, 4645,	10791, 10794,	\dfn@latex@footnotetext
4646, 4647, 5094,	10798, 10799,	. . . . . 10784
5101, 10589,	10800, 10807,	\dfn@latex@LTRfootnotetext
10594, 10597,	10812, 10815,	. . . . . 10790, 10805
10598, 10599,	10819, 10820,	\dfn@latex@makecol
10601, 10602,	10821, 10834,	. . . . . 10883, 10935
10605, 10606,	10841, 10844,	\dfn@latex@RTLfootnotetext
10608, 10609,	10846, 10853,	. . . . . 10811, 10826
10612, 10613,	10861, 10891,	\dfn@list . . . . 10804,
10615, 10616,	10898, 10901,	10825, 10832,
10619, 10620,	10903, 10907, 10915	10865, 10867,
10622, 10623,	\dfn@boxb . . . . 10800,	10870, 10876,
10626, 10627,	10821, 10838,	10889, 10917,
10692, 10693,	10839, 10846,	10919, 10922, 10928
10698, 10699,	10851, 10895,	\dfn@LTRfootnotetext
10704, 10705,	10896, 10903, 10906	. . . . . 10786, 10806
10710, 10711,	\dfn@countins 10830, 10887	\dfn@LTRmakecol . . .
10716, 10717, 11258	\dfn@dima . . . . 10791,	. 10885, 10937, 10939
\DefineTOEntryCommandOption	10792, 10793,	\dfn@makecol . . . . .
. . . . . 24878,	10804, 10812,	. 10937, 10938, 10939
24880, 24882,	10813, 10814,	\dfn@makefnmark . . .
24886, 24888,	10825, 10829,	. . . . . 10789, 10810
24890, 24892, 24894	10846, 10866,	\dfn@RTLfootnotetext
\DefineTOEntryIfOption	10886, 10903, 10918	. . . . . 10807, 10827
. . . . . 24870,	\dfn@dimb . . . . 10866,	\dfn@RTLmakecol . . .
24872, 24876, 24912	10867, 10869,	. 10828, 10937, 10938
\DefineTOEntryLengthOption	10870, 10872,	\dfn@split . . . 10800,
. . 24457, 24459,	10918, 10919,	10821, 10834,
24618, 24868,	10921, 10922, 10924	10846, 10891, 10903
24884, 24896,	\dfn@elt@adjust . . .	\DFNalwaysdouble . 10940
24898, 24914, 24916	. . . . . 10866, 10918	\DFNcolumnsep . . . . .
\DefineTOEntryListOption	\dfn@elt@getht . . . .	. 10849, 10862, 10906
. . . . . 24874	. . . . . 10831, 10888	\DFNcolumnwidth . . .
\DefineTOEntryOption	\dfn@fnht . . . . 10802,	. . 10783, 10788,
. . . . . 24900	10823, 10864,	10809, 10848,
\DefNewDummy . . 6477, 6494	10867, 10873,	10850, 10853,
\delimiter . . . . . 16359	10874, 10875,	10863, 10905, 10907
\DEPTH . . . . . 23946, 23953	10916, 10919,	\diagbox@double . . .
\depth . . . . . 16787,	10925, 10926, 10927	. . . . . 10942, 10945
18956, 18963, 18988	\dfn@fnmaxdp . . 10790,	



<code>\diagbox@double@pict@NE</code>	<code>\DigitsDotDashInterCharToks</code>	25623, 25682, 25683
..... 11016, 11023	..... 4382, 4383	<code>\dimen@i</code> ..... 23737,
<code>\diagbox@double@pict@NW</code>	<code>\dim</code> .... 18630, 18631,	23738, 23743, 23749
..... 11015	18954, 18955, 18956	<code>\dimen@ii</code> .... 16448,
<code>\diagbox@double@pict@SE</code>	<code>\dimen</code> 4289, 4515, 11961,	16449, 16450,
..... 11008, 11015	12103, 12108,	16456, 16458,
<code>\diagbox@double@pict@SW</code>	12125, 12126,	16461, 16462, 16463
..... 11023	12127, 12136,	<code>\dimexpr</code> . 28, 242, 772,
<code>\diagbox@font</code> .....	12140, 12161,	1006, 1252, 2493,
.. 10943, 10946,	12165, 12435,	2914, 2929, 2944,
10950, 10952,	12439, 12460,	3247, 3249, 3253,
10957, 10959,	12464, 12722,	3255, 3364, 3373,
10963, 10966,	12726, 12747,	3381, 5543, 5546,
10969, 10973,	12751, 13021,	5834, 5838, 5848,
10975, 10979, 10981	13025, 13046,	5857, 9307, 9460,
<code>\diagbox@ht</code> .. 11010,	13050, 13320,	10278, 10340,
11013, 11018, 11021	13324, 13345,	10341, 10343,
<code>\diagbox@insepl</code> 10943,	13349, 13619,	10369, 10378,
10950, 10952,	13623, 13644,	10402, 10432,
10963, 10966,	13648, 13918,	17923, 18378,
10973, 10975,	13922, 13943,	18387, 19354,
10985, 10995, 10997	13947, 14217,	19563, 20459,
<code>\diagbox@insepr</code> 10946,	14221, 14242,	20882, 21442,
10957, 10959,	14246, 14516,	21488, 21495,
10969, 10979,	14520, 14541,	21498, 21524,
10981, 10988,	14545, 14853,	21525, 21526,
10991, 11002, 11004	14860, 14906,	21527, 21529,
<code>\diagbox@setlinecolor</code>	14913, 14962,	22181, 22228,
..... 11009,	15013, 16540,	22235, 22238,
11012, 11017,	19451, 19458,	22264, 22265,
11020, 11025,	19459, 19467,	22266, 22267,
11029, 11034,	19468, 19473,	22269, 22954,
11038, 11043,	19474, 19487,	23001, 23008,
11047, 11052, 11056	19488, 19495,	23011, 23037,
<code>\diagbox@triple@pict@NE</code>	19496, 26477, 26480	23038, 23039,
..... 11033	<code>\dimen@</code> ... 9942, 9943,	23040, 23042,
<code>\diagbox@triple@pict@NW</code>	15356, 15358,	24604, 24817,
..... 11024	16398, 16399,	24825, 24834,
<code>\diagbox@triple@pict@SE</code>	16400, 16410,	24836, 26015,
..... 11051	16411, 16412,	26017, 26018,
<code>\diagbox@triple@pict@SW</code>	16415, 16416,	26019, 26024,
..... 11042	16417, 16423,	26026, 26027,
<code>\diagbox@triple@setbox@NE</code>	16433, 16435,	26028, 26033,
..... 11007	16444, 16446,	26035, 26036,
<code>\diagbox@triple@setbox@NW</code>	16453, 16454,	26037, 26042,
..... 10962,	16455, 16456,	26044, 26045, 26046
10965, 10968, 10983	18278, 18279,	<code>\disable@package@load</code>
<code>\diagbox@triple@setbox@SE</code>	18280, 19568,	..... 6946
..... 10984,	19569, 20149,	<code>\display@setup</code> 9800, 9825
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9359, 9362, 9528,	<code>\enddblfloat</code> . . . . . 21362	5963, 5964, 5965,
9536, 9539, 9568,	<code>\endfloat</code> . . . . .	5966, 5972, 5973,
9580, 9620, 9623,	. . . 7385, 7714, 21313	5974, 5975, 6120,
9626, 9691, 9694,	<code>\endrotdblfloat</code> . 21317	6291, 6292, 6294,
10009, 10019,	<code>\endrotfloat</code> . . . . .	6305, 6306, 6308,
10032, 10042,	. 21274, 21315, 21316	6319, 6329, 6338,
10055, 10065,	<code>\endarray</code> . . . . . 394,	6339, 6340, 6341,
10078, 10088,	435, 1408, 1409,	6351, 6364, 6388,
10645, 10754,	23804, 23808, 25906	6393, 6397, 6413,
10766, 10774,	<code>\endBCmd</code> . . . . . 4776	6431, 6433, 6441,
11179, 11253,	<code>\endbeamer@columnenv</code>	6443, 6452, 6453,
11383, 11386,	. . . . . 2236	6533, 6537, 6570,
11389, 11448,	<code>\endbeamer@putright</code>	6572, 6583, 6584,
11451, 11478,	. . . 3143, 3155, 3167	6598, 6606, 6608,
11481, 11484,	<code>\endbeamerboxesrounded</code>	6635, 6656, 6693,
11549, 11552,	. . . . . 1970	6694, 6695, 6711,
11641, 15550,	<code>\endbidi@switch</code> . . .	6712, 6713, 6714,
15553, 15556,	. . . 6490, 6494, 6495	7542, 7543, 7550,
15615, 15618,	<code>\endbidi@tabular@RTLcases</code>	7551, 8143, 8161,
15768, 17017,	. 25906, 25914, 25921	8179, 8210, 8239,
17035, 17137,	<code>\endcolumn</code> . . . . . 2236	8268, 8510, 9036,
17153, 17244,	<code>\endcsname</code> 8, 44, 58, 74,	9064, 9067, 9070,
17989, 19154,	166, 168, 198, 213,	9084, 9091, 9098,
19800, 20523,	257, 271, 286, 343,	9106, 9107, 9145,
20531, 20534,	344, 398, 1410,	9170, 9171, 9953,
20604, 20607,	2296, 2313, 2330,	9959, 9967, 9974,
20662, 20670,	2346, 2362, 2378,	11743, 11759,
20673, 20750,	2411, 2437, 2463,	11774, 11790,
20753, 20758,	2482, 2511, 4842,	11805, 11818,



11831,	11843,	14727,	14740,	23602,	23604,
11855,	11868,	14754,	14767,	23780,	23806,
12035,	12190,	14781,	15066,	23808,	23840,
12220,	12236,	15097,	15115,	23862,	23864,
12251,	12263,	15131,	15145,	23880,	23881,
12278,	12318,	15161,	15200,	23901,	23908,
12347,	12360,	15230,	15244,	24124,	24389,
12374,	12387,	15259,	15273,	24390,	24406,
12401,	12489,	15288,	15637,	24407,	24408,
12518,	12533,	15788,	15790,	24415,	24417,
12547,	12558,	15795,	15797,	24418,	24471,
12572,	12611,	15901,	15902,	24472,	24630,
12639,	12651,	15903,	15904,	24631,	24735,
12664,	12676,	15906,	15908,	24760,	24787,
12689,	12776,	15909,	15910,	24791,	24795,
12806,	12822,	15911,	15913,	24852,	24904,
12837,	12849,	15914,	15915,	24907,	24921,
12864,	12904,	15971,	15995,	24937,	24938,
12933,	12946,	16013,	16099,	24954,	24961,
12960,	12973,	16108,	16131,	24966,	24984,
12987,	13075,	16148,	16164,	24985,	24997,
13105,	13121,	16193,	16208,	24998,	25053,
13136,	13148,	16223,	16270,	25108,	25110,
13163,	13203,	16285,	17251,	25112,	25128,
13232,	13245,	17254,	17256,	25131,	25137,
13259,	13272,	17260,	17264,	25139,	25142,
13286,	13374,	17278,	17289,	25146,	25151,
13404,	13420,	17300,	17500,	25155,	25159,
13435,	13447,	17531,	17562,	25173,	25177,
13462,	13502,	17941,	19139,	25180,	25184,
13531,	13544,	19140,	19147,	25189,	25193,
13558,	13571,	19683,	19693,	25198,	25200,
13585,	13673,	19707,	21410,	25201,	25204,
13703,	13719,	21414,	21418,	25208,	25255,
13734,	13746,	21501,	21725,	25256,	25258,
13761,	13801,	22043,	22045,	25260,	25265,
13830,	13843,	22047,	22050,	25267,	25269,
13857,	13870,	22056,	22064,	25273,	25276,
13884,	13972,	22066,	22068,	25277,	25280,
14002,	14018,	22074,	22076,	25281,	25290,
14033,	14045,	22149,	22153,	25292,	25294,
14060,	14100,	22157,	22241,	25298,	25302,
14129,	14142,	22465,	22805,	25303,	25356,
14156,	14169,	22807,	22809,	25358,	25360,
14183,	14271,	22812,	22818,	25364,	25384,
14301,	14317,	22826,	22828,	25385,	25393,
14332,	14344,	22831,	22837,	25397,	25401,
14359,	14399,	22839,	22922,	25405,	25409,
14428,	14441,	22926,	22930,	25413,	25417,
14455,	14468,	23014,	23238,	25421,	25459,
14482,	14570,	23570,	23572,	25460,	25462,
14600,	14616,	23574,	23577,	25465,	25466,
14631,	14643,	23583,	23591,	25470,	25944,
14658,	14698,	23593,	23596,	26009,	26093,



26154, 26167, 26169	17801, 17812,	309, 630, 762, 993,
\enddocument . . . 6244,	17950, 17973,	1025, 1275, 2677,
6250, 6257, 6274	18146, 18221,	8535, 8543, 8548,
\endflushleft . 4796, 4804	19030, 19148,	9297, 9485, 9797,
\endgraf 18235, 18251,	19248, 19345,	11358, 11632,
22008, 22770, 23535	19552, 19556,	15533, 17905,
\endgroup 17, 127, 222,	19560, 19878,	19678, 20478,
320, 327, 392, 419,	19928, 19933,	20872, 21069,
508, 560, 574, 715,	19935, 19938,	21272, 21824,
737, 862, 939, 959,	19943, 20186,	22585, 23350, 24085
1114, 1198, 1221,	20217, 20423,	\endlooprepeat . . . .
1364, 1533, 2180,	20446, 20578,	. . . 6698, 6727, 6734
2220, 2413, 2439,	20719, 20795,	\endLTR 20127, 25835, 25843
2465, 2495, 2562,	20818, 20963,	\endMakeFramed . . . 16387
2575, 4624, 4908,	21010, 21025,	\endmath . . . . . 9830
4916, 4924, 5300,	21145, 21195,	\endmdf@lrbox . . . . 18381
5339, 5358, 5382,	21210, 21516,	\endminipage . . . . .
5607, 5632, 5988,	21722, 21782,	. 12078, 16247, 23962
6007, 6052, 6066,	21877, 22256,	\endmodernpoem . . . . 9171
6076, 6093, 6146,	22462, 22543,	\endpgfpicture . . . 19896
6219, 6355, 6561,	22638, 23029,	\endpspicture . . . . 20181
6563, 6599, 6604,	23235, 23308,	\endR . . . 181, 346, 358,
6613, 6771, 7086,	23403, 23883,	396, 439, 1408,
7552, 7979, 7981,	24007, 24191,	1409, 1526, 3369,
8212, 8241, 8270,	24611, 24725,	3377, 3385, 3557,
8647, 8664, 8680,	25238, 25366,	4879, 4880, 9838,
8691, 8731, 9050,	25676, 25709,	9925, 9941, 9946,
9086, 9093, 9100,	25752, 25771,	9948, 9980, 11062,
9158, 9247, 9270,	25904, 26237,	12119, 15786,
9424, 9447, 9661,	26280, 26486, 26496	16780, 16785,
9711, 9726, 9932,	\endinput . . . . . 448,	16842, 16881,
10194, 10253,	9997, 24060, 24144	16888, 17257,
11091, 11121,	\endL . 183, 1537, 2022,	17265, 17647,
11299, 11312,	3143, 3155, 3167,	17683, 17715,
11422, 11519,	4319, 4537, 5226,	17744, 17770,
11568, 14882,	9936, 9945, 9946,	17780, 17783,
14893, 14935,	9955, 9961, 9980,	17980, 18113,
14946, 14987,	12122, 15656,	18229, 18290,
14998, 15038,	15767, 15781,	18293, 18335,
15049, 15471,	15944, 16783,	18428, 18436,
15486, 15589,	16791, 16810,	18627, 18953,
15711, 15751,	16820, 16835,	19117, 19119,
15836, 15857,	16856, 17644,	19957, 20089,
16101, 16110,	18113, 19942,	20097, 20176,
16272, 16287,	19947, 20088,	20177, 20178,
16373, 16414,	20107, 20216,	21368, 21378,
16445, 16590,	21372, 21383,	21387, 21396,
16643, 16821,	21390, 21400,	21890, 22651,
16836, 17242,	23958, 25684,	23416, 23778,
17280, 17291,	25685, 25724,	23779, 23804,
17302, 17313,	25728, 25781,	23810, 23957,
17414, 17439,	25792, 25811,	25681, 25685,
17477, 17510,	26465, 26540, 26556	25687, 25781,
17541, 17572,	\endlist . . . . . 96,	25793, 25801,



25914,	26059,	11240,	11243,	11108,	16929,
26062,	26065,	11247,	11248,	16934,	16942,
26080,	26091,	11249,	11250,	21526,	22266,
26092,	26465,	11262,	11264, 11265	23039,	26506, 26514
26478,	26480,	\eq@addpunct	..... 9835	\everycr	..... 18225
26540,	26556,	\EQ@box	..... 9840, 9846	\everydisplay	..... 9800
26575, 26578, 26586		\eq@group	.... 9803, 9812	\everyhbox	... 20091,
\endrotate	..... 21377	\eq@GRP@first@dmath	9812	20093,	20101,
\endRTL	20129, 25845, 25853	\eq@if	... 5417, 5418, 5420	20103,	25795,
\ends@math	..... 9830	\eq@isIntertext	... 9850	25797, 25805, 25807	
\endsideways	..... 21395	\eq@prelim	... 9803, 9820	\everyjob	..... 4215,
\endsidewaysfigure	21315	\eq@setnumber	..... 9806	4218, 4479, 4481	
\endsidewaystable	21316	\eq@setup@a	..... 9808	\everymath	..... 356
\endstabular	23778, 23780	\eq@startup	..... 9809	\everypar	..... 558,
\endstrip	..... 19361	\eq@wdCond	..... 9827	713, 957, 1196,	
\endtabular	394, 398,	\eqnewif	..... 4245,	7825, 7869, 7913,	
1409, 1410, 4879,		4246, 4249, 4258, 5413		9246, 9423, 9710,	
23804,	23806,	\eqno	..... 337, 20172,	11567,	15470,
23890,	26091, 26093	20174, 26581, 26583		15664,	20083,
\endtabularx	.....	\eqnumform	..... 9838	20087,	20315,
. 23841, 23870, 23881		\eqstyle	..... 9805	20422,	20794,
\endtcblrbox	23962, 23963	\equal	..... 5191,	21009,	21194,
\endtcbsavebox	.. 23963	5208, 5212, 5216,		24184,	24188,
\endtcsvbox	..... 23973	7373, 7407, 7418,		24723,	25787,
\endtitlepage	.. 672,	7450, 7451, 7467,		25791,	25837,
979, 1231, 9279,		7508, 7766, 8008,		25847, 26382, 26426	
9467, 20382, 20832		8009, 8027, 8028,		\everyvbox	.... 1412,
\endtraditionalpoem	9107	8046, 8047, 8078,		1413,	20111,
\endtrivlist	..... 15782	8079, 10753, 15892		20113,	20119,
\endturn	..... 21367	\errmessage	.....	20121,	25815,
\endwindow	..... 19959	.. 4286, 4512, 19449		25817, 25824, 25826	
\enskip	.... 25351, 25376	\ERROR	..... 26178	\ExecuteDoHook	21423,
\enspace	318, 19953, 19955	\escapechar	... 5328,	21445,	22162,
\ensuremath	..... 4220	5414, 5419, 5430,		22184, 22935, 22957	
\env@RTLcases	25919, 25923	5434, 5632, 6380,		\ExecuteOptions	...
\EQ	11126, 11132, 11133,	6385, 6387, 6389, 6402		5042, 7237, 8618,	
11137,	11138,	\ESO@isMEMOIR	.... 11067	8620, 10586, 10684	
11147,	11148,	\ESO@tempdima	. 11072,	\exhyphenpenalty	..
11150,	11152,	11073,	11074,	..... 664, 971,	
11153,	11155,	11076,	11080,	1165, 9216, 9393,	
11156,	11157,	11082,	11083,	20374, 20824, 20886	
11158,	11160,	11084,	11089,	\exp	.... 18504, 18507,
11161,	11162,	11096,	11100,	18561, 18736, 18790	
11174,	11177,	11102,	11106,	\expandafter	... 166,
11179,	11181,	11108, 11112, 11119		198, 369, 398, 794,	
11182,	11184,	\ESO@tempdimb	.....	803, 811, 837,	
11187,	11189,	.. 11087, 11089,		840, 1046, 1055,	
11191,	11192,	11114, 11115,		1063, 1089, 1092,	
11194,	11195,	11116, 11117, 11119		1296, 1305, 1313,	
11197,	11200,	\evenpage	. 4585, 4588,	1339, 1342, 1410,	
11201,	11202,	4589, 4590, 4592,		1425, 1507, 1508,	
11205,	11208,	4593, 4594, 4595, 4597		1509, 1511, 2482,	
11216,	11223,	\evensidemargin	...	2511, 2602, 3480,	
11231,	11238,	... 4609, 11100,		4223, 4225, 4229,	



4231, 4235, 4237,  
4824, 4826, 4830,  
4832, 4836, 4838,  
4842, 4843, 4851,  
4853, 4857, 4858,  
4882, 4885, 4888,  
4891, 4895, 4898,  
4901, 4952, 4953,  
5006, 5264, 5267,  
5270, 5274, 5288,  
5300, 5301, 5306,  
5317, 5342, 5344,  
5348, 5349, 5353,  
5356, 5366, 5368,  
5372, 5373, 5377,  
5380, 5400, 5402,  
5407, 5421, 5422,  
5425, 5426, 5436,  
5437, 5440, 5441,  
5444, 5445, 5448,  
5449, 5485, 5487,  
5491, 5495, 5497,  
5501, 5503, 5507,  
5509, 5513, 5515,  
5519, 5521, 5525,  
5527, 5531, 5533,  
5537, 5539, 5550,  
5552, 5556, 5557,  
5558, 5560, 5561,  
5564, 5568, 5570,  
5575, 5576, 5578,  
5579, 5582, 5591,  
5598, 5602, 5604,  
5607, 5608, 5609,  
5611, 5614, 5615,  
5617, 5618, 5620,  
5621, 5623, 5625,  
5627, 5629, 5633,  
5879, 5880, 5881,  
5882, 5883, 5885,  
5908, 5912, 5963,  
5964, 5965, 5966,  
5972, 5973, 5974,  
5975, 6065, 6066,  
6067, 6069, 6076,  
6077, 6080, 6095,  
6102, 6111, 6120,  
6291, 6305, 6319,  
6329, 6338, 6339,  
6340, 6341, 6356,  
6383, 6384, 6393,  
6397, 6452, 6453,  
6465, 6466, 6561,  
6563, 6570, 6572,

6574, 6576, 6577,  
6578, 6598, 6600,  
6603, 6606, 6607,  
6608, 6610, 6613,  
6618, 6681, 6693,  
6695, 6711, 6712,  
6713, 6714, 6752,  
6763, 6768, 6782,  
7969, 8510, 8940,  
9065, 9068, 9071,  
9074, 9077, 9080,  
9106, 9107, 9170,  
9171, 9185, 9338,  
9347, 9355, 9515,  
9524, 9532, 9800,  
9910, 9952, 9973,  
10142, 10144,  
10205, 10207,  
12035, 12092,  
15684, 15686,  
15720, 15722,  
15788, 15789,  
15795, 15796,  
15893, 15910,  
15915, 15973,  
15976, 15997,  
16000, 16013,  
16027, 16028,  
16029, 16030,  
16032, 16259,  
16414, 16436,  
16437, 16445,  
16556, 16558,  
16605, 16607,  
16826, 16864,  
16865, 17282,  
17284, 17293,  
17295, 17304,  
17306, 17409,  
17423, 17437,  
17461, 17475,  
17508, 17539,  
17570, 17801,  
17802, 17809,  
17823, 18127,  
18128, 18133,  
18134, 18222,  
18265, 18268,  
19129, 19132,  
19164, 19166,  
19264, 19266,  
19840, 19857,  
19869, 19874,  
20085, 20510,

20519, 20527,  
20553, 20556,  
20649, 20658,  
20666, 20694,  
20697, 21280,  
21292, 21302,  
21323, 21338,  
21350, 21421,  
21501, 21602,  
21725, 21857,  
21866, 22042,  
22044, 22046,  
22049, 22055,  
22063, 22065,  
22067, 22073,  
22075, 22160,  
22241, 22342,  
22465, 22500,  
22515, 22518,  
22522, 22618,  
22627, 22804,  
22806, 22808,  
22811, 22817,  
22825, 22827,  
22830, 22836,  
22838, 22933,  
23014, 23115,  
23238, 23284,  
23287, 23383,  
23392, 23569,  
23571, 23573,  
23576, 23582,  
23590, 23592,  
23595, 23601,  
23603, 23780,  
23806, 23839,  
23842, 23862,  
23865, 23867,  
23869, 23880,  
23881, 23889,  
23893, 23895,  
23902, 23904,  
23909, 23911,  
23920, 24389,  
24390, 24406,  
24407, 24408,  
24415, 24417,  
24418, 24471,  
24630, 24735,  
24760, 24787,  
24791, 24795,  
24851, 24904,  
24907, 24921,  
24937, 24954,







690, 695, 698, 706,  
714, 716, 723, 724,  
731, 734, 735, 740,  
748, 787, 797, 806,  
814, 838, 840, 855,  
860, 894, 901, 910,  
916, 917, 923, 926,  
933, 936, 937, 942,  
950, 958, 960, 967,  
968, 972, 992, 993,  
994, 1011, 1039,  
1049, 1058, 1066,  
1090, 1092, 1107,  
1112, 1146, 1153,  
1162, 1166, 1172,  
1173, 1178, 1181,  
1189, 1197, 1199,  
1206, 1207, 1215,  
1218, 1219, 1224,  
1237, 1240, 1241,  
1242, 1261, 1289,  
1299, 1308, 1316,  
1340, 1342, 1357,  
1362, 1400, 1401,  
1403, 1406, 1408,  
1409, 1414, 1428,  
1429, 1443, 1444,  
1458, 1466, 1467,  
1473, 1474, 1478,  
1483, 1486, 1491,  
1494, 1502, 1503,  
1512, 1513, 1525,  
1526, 1537, 1548,  
1556, 1640, 1645,  
1670, 1678, 1693,  
1701, 1714, 1722,  
1735, 1743, 1914,  
1918, 1928, 1959,  
1987, 1990, 1999,  
2005, 2007, 2012,  
2013, 2014, 2015,  
2017, 2019, 2020,  
2021, 2024, 2025,  
2038, 2040, 2051,  
2054, 2056, 2076,  
2084, 2085, 2093,  
2101, 2128, 2142,  
2157, 2171, 2265,  
2266, 2287, 2337,  
2340, 2353, 2369,  
2415, 2441, 2467,  
2496, 2501, 2526,  
2534, 2543, 2550,  
2577, 2634, 2657,

2677, 2700, 2704,  
2726, 2731, 2736,  
2738, 2741, 2761,  
2784, 2804, 2818,  
2826, 2845, 2967,  
3007, 3052, 3118,  
3124, 3130, 3207,  
3223, 3235, 3242,  
3257, 3311, 3313,  
3318, 3324, 3354,  
3359, 3365, 3366,  
3368, 3369, 3374,  
3376, 3377, 3382,  
3384, 3385, 3416,  
3434, 3443, 3444,  
3454, 3463, 3464,  
3466, 3467, 3468,  
3509, 3516, 3539,  
3557, 3568, 3571,  
3596, 3607, 3624,  
3632, 3638, 3642,  
3645, 3652, 3693,  
3695, 3706, 3713,  
3731, 3754, 3803,  
3814, 3825, 3828,  
3845, 3852, 3901,  
3910, 3920, 3940,  
3947, 3983, 3992,  
3999, 4002, 4011,  
4018, 4021, 4035,  
4219, 4226, 4232,  
4238, 4277, 4278,  
4285, 4286, 4298,  
4304, 4305, 4372,  
4383, 4388, 4394,  
4397, 4405, 4432,  
4443, 4444, 4488,  
4503, 4504, 4511,  
4512, 4523, 4541,  
4570, 4827, 4833,  
4839, 4854, 4875,  
4879, 4880, 4882,  
4938, 4939, 4945,  
4960, 4961, 4964,  
4967, 4970, 4974,  
4975, 4983, 5197,  
5198, 5199, 5201,  
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5299, 5314, 5315,  
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\FiveColumnFootnotes	\focus@pbar@leftoffset	..... 16179
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..... 13014	\focus@pbar@progress	\footdir@ORG@bidi@RTLfootnotetext
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17837, 17845, 17853	\focus@pbar@rightoffset	\footdir@temp ... 79,
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..... 7735	..... 15988,	.. 11718, 11904,
\floatc@plain .... 15784	15991, 15992,	12292, 12585,
\floatingpenalty ..	15995, 15996, 15999	12878, 13177,
.. 41, 55, 71, 254,	\footdir@debug 15960,	13476, 13775,
268, 283, 10803,	15968, 15972,	14074, 14373,
10824, 10871,	15975, 15985,	14672, 15172, 16319
10878, 10923,	15992, 15996, 15999	\footfudgefactor ..
10930, 11964,	\footdir@debugfalse 4114	.. 14819, 14881,
16128, 16145, 16161	\footdir@debugtrue	14934, 14986, 15037
\floatstyle ..... 7768	..... 4113, 15958	\footins ..... 35,
\flushleft ... 4793, 4802	\footdir@fntext ...	49, 65, 248, 262,
\FN@sf@@footnote ..	. 16006, 16023, 16025	277, 10803, 10824,
..... 4820, 4824	\footdir@LeftRightElse	10828, 10829,
\FN@sf@@footnotemark	. 15966, 15982, 16059	10840, 10843,
..... 4849, 4851	\footdir@name .....	10847, 10871,
\FN@sf@LTRfootnote	. 16009, 16012, 16013	10877, 10885,
..... 4821, 4830	\footdir@ORG@bidi@amsart@footnotetext	10887, 10897,
\FN@sf@RTLfootnote	..... 79	10900, 10904,
..... 4822, 4836	\footdir@ORG@bidi@amsart@LTRfootnotetext	10923, 10929,
\FN@sf@gobble@bracket	..... 81	11735, 11751,
..... 4860, 4863	\footdir@ORG@bidi@amsart@RTLfootnotetext	11782,
\FN@sf@gobble@opt .	..... 80	11797, 11961,
..... 4826,	\footdir@ORG@bidi@amsbook@footnotetext	11981,
4832, 4838, 4841	..... 292	11982, 11984,
\FN@sf@gobble@optonly	\footdir@ORG@bidi@amsbook@LTRfootnotetext	11995,
..... 4853, 4856	..... 294	12101, 12106,
\FN@sf@gobble@twobracket	\footdir@ORG@bidi@amsbook@RTLfootnotetext	15372,
..... 4845, 4848	..... 293	15381, 15385,
\focus@pbar@height	\footdir@ORG@bidi@beamer@footnotetext	15405,
3425, 3427, 3428,	..... 2388	16122, 16139,
3429, 3431, 3432,	\footdir@ORG@bidi@beamer@LTRfootnotetext	16548,
3433, 3438, 3439,	..... 2390	16549, 16597,





16598,	16651,	12792,	12799,	15106,	15109,
16652,	16653,	12814,	12817,	15124,	15125,
16654,	16674,	12830,	12831,	15137,	15153,
16675,	16685,	12842,	12856,	15436,	15449, 15453
16694,	16715,	13025,	13026,	\footinsv@r ..	11952,
16733,	16736,	13050,	13051,	12100,	12101,
20150,	20151,	13068,	13083,	12102,	12103,
20153,	26289,	13091,	13098,	12136,	12137,
26295,	26299,	13113,	13116,	12161,	12162,
26304,	26322, 26326	13129,	13130,	12181,	12200,
\footinsdim ..	11960,	13141,	13155,	12204,	12211,
11961,	12103,	13324,	13325,	12226,	12243,
12108,	12136,	13349,	13350,	12258,	12271,
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13947,	14217,	13947,	13948,	12844,	12857,
14221,	14242,	13965,	13980,	12858,	12869,
14246,	14516,	13988,	13995,	13021,	13022,
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14545,	14853,	14026,	14027,	13066,	13085,
14860,	14906,	14038,	14052,	13089,	13096,
14913,	14962, 15013	14221,	14222,	13111,	13128,
\footinsv@l ..	11750,	14246,	14247,	13143,	13156,
11781,	11953,	14264,	14279,	13157,	13168,
12105,	12106,	14287,	14294,	13320,	13321,
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12439,	12440,	14624,	14625,	13664,	13683,
12464,	12465,	14636,	14650,	13687,	13694,
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12525,	12528,	14914,	14948,	13755,	13766,
12540,	12541,	14962,	14963,	13918,	13919,
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12769,	12784,	15083,	15090,	14008,	14025,



14040,	14053,	20498,	20597,	11959,	15536,
14054,	14065,	20635,	20741,	16118,	16119,
14217,	14218,	20895,	20983,	16120,	16125,
14242,	14243,	21092,	21166,	16142,	16158,
14262,	14281,	21547, 22287, 23060		16189,	16204,
14285,	14292,	\footnotelayout ...		16219,	17916,
14307,	14324,	... 8103, 8104, 8107		19953,	19955,
14339,	14352,	\footnotemark .....		20494,	20631,
14353,	14364,	4849, 4850, 16260,		20891,	21088,
14516,	14517,	16274, 19069, 19072		21543, 22283, 23056	
14541,	14542,	\footnoterule . 10782,		\footnotetext .. 4884,	
14561,	14580,	10844, 10850,		4895, 9064, 9074	
14584,	14591,	10855, 10883,		\footrulewidth 5074, 7578	
14606,	14623,	10884, 10901,		\footscript .....	
14638,	14651,	10905, 10909,		.. 11901, 11907,	
14652,	14663,	10935, 10936,		11911, 11913,	
14853,	14854,	11710, 12086,		16322, 16326, 16328	
14894,	14906,	15371, 15384,		\footskip .... 21533,	
14907,	14947,	15951, 16047,		22273, 23046, 26553	
15056,	15077,	16051, 16054,		\foottextfont .....	
15081,	15088,	16069, 16074,		.. 11719, 11739,	
15104,	15123,	16075, 16077,		11755, 11816,	
15139,	15154,	16736, 16769,		11829, 11957,	
15155,	15167,	19514, 20152,		12130, 12155,	
15435, 15448, 15452		23974, 26298, 26325		12187, 12217,	
\footmarkstyle .....		\footnotes .....	8100	12292, 12315,	
..... 11901, 11940		\footnotesep 29, 31, 40,		12344, 12429,	
\footmarkwidth .....		46, 54, 60, 70, 76,		12454, 12486,	
.. 11900, 11905,		243, 245, 253, 259,		12515, 12585,	
11906,	11908,	267, 273, 282, 288,		12608, 12636,	
11910,	11913,	2299, 2316, 2333,		12716, 12741,	
11917,	11918,	2349, 2365, 2381,		12773, 12803,	
11920,	11922,	10800, 10821,		12878, 12901,	
11925,	11929,	10846, 10903,		12930, 13015,	
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11934,	11937,	11731, 11965,		13102, 13177,	
11944,	11947,	14887, 14940,		13200, 13229,	
16320,	16321,	14992, 15043,		13314, 13339,	
16323,	16325,	16127, 16135,		13371, 13401,	
16328,	16332,	16144, 16152,		13476, 13499,	
16333,	16335,	16160, 16168,		13528, 13613,	
16337,	16340,	16196, 16211,		13638, 13670,	
16344,	16345,	16226, 17924, 17926		13700, 13775,	
16347, 16349, 16352		\footnotesize ... 38,		13798, 13827,	
\footnote 455, 529, 782,		52, 68, 106, 236,		13912, 13937,	
881, 1034, 1133,		251, 265, 280, 451,		13969, 13999,	
1284, 1384, 2392,		778, 1030, 1280,		14074, 14097,	
4820, 4823, 8285,		5204, 5226, 7257,		14126, 14211,	
8604, 8635, 9326,		7258, 7296, 7915,		14236, 14268,	
9503, 9608, 9682,		7916, 7917, 8109,		14298, 14373,	
11373, 11441,		8139, 8157, 8175,		14396, 14425,	
11466, 11540,		9322, 9499, 9604,		14510, 14535,	
15540, 15608,		11369, 11462,		14567, 14597,	
19068, 19071,		11957, 11958,		14672, 14695,	



14724,	14824,	21498,	22228,	18719,	18720,																																																																					
14847,	14876,	22231,	22235,	18721,	18722,																																																																					
14886,	14900,	22238,	23001,	18723,	18725,																																																																					
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15063,	15094,	<b>\ftn@rule@test@values</b>		18728,	18730,																																																																					
15172,	15197,	15227	..... 21487,	18731,	18741,																																																																					
<b>\forcerectofloat</b> ..	7380	21494,	22227,	18749,	18750,																																																																					
<b>\forceversofloat</b> ..	7381	22234,	23000,	23007	18751,	18753,																																																																				
<b>\forvariable</b> .....		<b>\ftn@rule@width</b> 21491,		18758,	18759,																																																																					
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6779,	6786,	6791,	22238,	23004,	23011	18769,	18774,																																																																			
6797,	6802,	6806,	6807	<b>\ftnm@font</b> .....		18777,	18784,																																																																			
<b>\FourColumnFootnotes</b>		..... 12740		. 21483,	22223,	22996	18786,	18789,																																																																		
<b>\fourcolumnfootnotes</b>		..... 12715		<b>\full@width</b> .....		. 19441,	19453,	19501	18790,	18794,																																																																
<b>\fp</b> .....	18725,	18726,	18727,	18728	<b>\futurelet</b> ....		831,	18800,	18801,																																																																	
<b>\fps@figure</b> .....	16997	833,	1083,	1085,	18802,	18806,	18807,	18811,	18812,	18819,																																																																
<b>\framebox</b> .....	10639,	10770,	19383,	19389	1333,	1335,	5393,	18812,	18819,	18834,	18835,																																																															
<b>\FrameCommand</b> .....	16376	18836,	18838,	18843,	18844,	18846,	18847,	18850,	18854,	18855,	18856,	18860,	18861,	18862,	18869,	18870,	18871,	18873,	18874,	18877,	18878,	18883,	18889,	18900,	18905,	18906,	18907,	18911,	18914,	18915,	18916,	18917,	18919,	18927,	18941,	18942,	18943,	18944,	18946,	18949,	18957,	18958,	18961,	18965,	18966,	18968,	18970,	18971,	18972,	18976,	18977,	18978,	18983,	18990,	19806,	19814,	19817																	
<b>\FrameHeightAdjust</b>	16450	<b>G</b>		<b>\g</b> .....		6833,	6838,	6923,	6936,	6937,	6955,	6956,	6960,	6967,	6969,	11145,	11147,	11151,	11244,	18423,	18428,	18430,	18436,	18438,	18481,	18485,	18486,	18532,	18536,	18537,	18554,	18555,	18592,	18608,	18611,	18617,	18618,	18619,	18620,	18621,	18630,	18631,	18633,	18635,	18636,	18637,	18644,	18645,	18650,	18656,	18665,	18668,	18676,	18677,	18680,	18681,	18682,	18683,	18684,	18685,	18687,	18690,	18691,	18693,	18696,	18698,	18701,	18706,	18714,	18715,	18717,	18718,		
<b>\FrameRestore</b> ..	16384,	16388,	16504,	16505	<b>\framewidth</b> .....		... 2288,	2305,	2322	<b>\fromaddress</b> .....		.. 11634,	11640,	11650,	17982,	17988	<b>\fromname</b> .....		11655	<b>\fromsig</b> ...		11654,	11656	<b>\fromvalue</b> .....		6661,	6747,	6770,	6792,	6807	<b>\frontmatter</b> .....		8802	<b>\fs@bidituftefloatboxed</b>		..... 7746	<b>\fs@bidituftefloatplain</b>		..... 7725,	7733	<b>\fs@bidituftefloatplaintop</b>		..... 7733	<b>\fs@bidituftefloatruled</b>		..... 7738	<b>\fslice</b> ..		19970,	19971,	19973,	19974,	19977	<b>\ftn@amount</b> ..		16652,	16653,	16654,	16661,	16665,	16666	<b>\ftn@font</b> .....		21444,	21480,	22183,	22220,	22956,	22993	<b>\ftn@rule@height</b> ..		..... 21488,	21491,	21495,



18309, 25135, 25464	\Gin@lly . . . . . 16816	5330, 5342, 5366,
\g@mix@page@int .. 18863	\Gin@outer@scalex 19787	5467, 5483, 5649,
\gdef . . . . . 441, 2511,	\Gin@outer@scaley 19788	5703, 5757, 6561,
2513, 4723, 5095,	\Gin@scalex . . . . . 19792	6563, 6583, 6584,
5096, 5097, 5098,	\Gin@scaley . . . . . 19793	6595, 6603, 6613,
5099, 5100, 5102,	\Gin@urx . . . . . 16817	6726, 6745, 6747,
5103, 5264, 5288,	\Gin@ury . . . . . 16818	6749, 6761, 6766,
5625, 6339, 6425,	\Gin@include@graphics	7244, 7378, 7422,
6427, 6437, 6439,	. . . . . 16819, 16831	7423, 7795, 7806,
6756, 6758, 6759,	\Gin@input@path . . . . . 18623	7809, 7839, 7850,
7393, 7394, 7396,	\global . 311, 475, 476,	7853, 7883, 7894,
7399, 7479, 7484,	477, 478, 479, 480,	7897, 7951, 8718,
7485, 7486, 7638,	481, 482, 483, 484,	8915, 8918, 8936,
7679, 8058, 8196,	485, 486, 504, 510,	8940, 8956, 8967,
8225, 8254, 8293,	511, 512, 513, 514,	8993, 8994, 9021,
8302, 8311, 8640,	515, 516, 517, 518,	9034, 9035, 9055,
8657, 8673, 8685,	519, 520, 521, 522,	9065, 9068, 9071,
8725, 8726, 8727,	557, 558, 712, 713,	9074, 9077, 9080,
8914, 8917, 9172,	820, 821, 822, 823,	9112, 9122, 9136,
9184, 9186, 10149,	824, 825, 826, 827,	9138, 9143, 9144,
10212, 11128,	828, 829, 858, 864,	9150, 9151, 9153,
11141, 12035,	865, 866, 867, 868,	9173, 9185, 9187,
15389, 15400,	869, 870, 871, 872,	9245, 9246, 9364,
15411, 15412,	873, 874, 956, 957,	9365, 9366, 9367,
15691, 15727,	1072, 1073, 1074,	9368, 9369, 9370,
16013, 16073,	1075, 1076, 1077,	9371, 9372, 9373,
16563, 16612,	1078, 1079, 1080,	9422, 9423, 9541,
18168, 18171,	1081, 1110, 1116,	9542, 9543, 9544,
19171, 19271,	1117, 1118, 1119,	9545, 9546, 9547,
19728, 19749,	1120, 1121, 1122,	9548, 9549, 9550,
20144, 23718,	1123, 1124, 1125,	9628, 9629, 9630,
23983, 23984,	1126, 1195, 1196,	9631, 9632, 9633,
23989, 24012,	1322, 1323, 1324,	9634, 9635, 9636,
24013, 25461,	1325, 1326, 1327,	9637, 9638, 9639,
25868, 25928,	1328, 1329, 1330,	9657, 9663, 9664,
26151, 26208, 26255	1331, 1360, 1366,	9665, 9666, 9667,
\geometry . 2073, 2075,	1367, 1368, 1369,	9668, 9669, 9670,
2081, 2083, 7279,	1370, 1371, 1372,	9671, 9672, 9673,
7282, 7286, 7289, 7293	1373, 1374, 1375,	9674, 9675, 9709,
\Gin@angle . . . . . 19789	1376, 1502, 1503,	9710, 9802, 9812,
\Gin@bboxtrue . . . . 16814	1882, 2286, 2303,	9813, 9814, 9815,
\Gin@defaultbp . . . .	2320, 2337, 2338,	9816, 9817, 9818,
. . 16815, 16816,	2353, 2354, 2369,	9819, 9827, 9840,
16817, 16818,	2370, 2474, 2481,	9845, 9849, 9905,
23945, 23946, 23949	2505, 2588, 2716,	10136, 10137,
\Gin@eheight . . . . . 19791	4626, 4627, 4628,	10147, 10154,
\Gin@esetsize . . . . 16833	4629, 4630, 4631,	10188, 10199,
\Gin@ewidth 19790, 19791	4632, 4633, 4634,	10200, 10210,
\Gin@exclamation . .	4635, 4636, 4882,	10217, 10247,
. 16863, 19790, 19793	4885, 4888, 4891,	10272, 10291,
\Gin@gridfalse . . . 19776	4895, 4898, 4901,	10488, 10499,
\Gin@ii . . . . . 16822	4980, 4984, 5006,	10512, 10524,
\Gin@iii . . . 16811, 16825	5289, 5303, 5305,	10526, 10535,
\Gin@llx . . . . . 16815	5311, 5313, 5324,	10537, 10538,



10541,	10544,	12830,	12857,	15732,	15804,
10554,	10561,	12886,	12915,	15807,	15840,
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10795,	10802,	12966,	12980,	15851,	15852,
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10880,	10892,	13279,	13386,	16185,	16199,
10900,	10904,	13428,	13455,	16200,	16214,
10916,	10919,	13484,	13513,	16215,	16537,
10927,	10932,	13537,	13551,	16538,	16539,
11254,	11391,	13564,	13578,	16540,	16546,
11392,	11393,	13685,	13727,	16547,	16548,
11394,	11395,	13754,	13783,	16549,	16550,
11396,	11397,	13812,	13836,	16551,	16561,
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11400,	11418,	13877,	13984,	16596,	16597,
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11426,	11427,	14082,	14111,	16600,	16610,
11428,	11429,	14135,	14149,	16619,	16648,
11430,	11431,	14162,	14176,	16649,	16661,
11432,	11433,	14283,	14325,	16662,	16663,
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11489,	11490,	14448,	14461,	16750,	16763,
11491,	11492,	14475,	14582,	17423,	17437,
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11495,	11496,	14680,	14709,	17508,	17539,
11497,	11515,	14733,	14747,	17570,	17633,
11521,	11522,	14760,	14774,	17643,	18118,
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11527,	11528,	15124,	15154,	18287,	18288,
11529,	11530,	15182,	15212,	18296,	19001,
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11533,	11566,	15266,	15281,	19004,	19005,
11567,	11811,	15348,	15399,	19006,	19007,
11824,	11836,	15410,	15469,	19008,	19009,
11848,	11861,	15470,	15558,	19026,	19121,
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12042,	12057,	15565,	15566,	19182,	19183,
12124,	12202,	15567,	15585,	19185,	19190,
12244,	12271,	15591,	15592,	19198,	19200,
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12380,	12394,	15597,	15598,	19213,	19214,
12500,	12540,	15599,	15600,	19217,	19218,
12565,	12593,	15601,	15679,	19249,	19250,
12621,	12644,	15680,	15689,	19258,	19259,
12657,	12669,	15695,	15715,	19269,	19275,
12682,	12788,	15716,	15725,	19278,	19280,



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19310,	19311,	20971,	20972,	23033,	23111,
19313,	19314,	20973,	20974,	23130,	23153,
19317,	19318,	20975,	20976,	23234,	23244,
19346,	19347,	20977,	21008,	23245,	23246,
19353,	19354,	21009,	21112,	23247,	23248,
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19368,	19369,	21115,	21116,	23251,	23252,
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19373,	19379,	21119,	21120,	23255,	23256,
19451,	19468,	21121,	21122,	23257,	23258,
19474,	19488,	21123,	21141,	23259,	23260,
19496,	19661,	21147,	21148,	23261,	23262,
19886,	19903,	21149,	21150,	23263,	23264,
19904,	19905,	21151,	21152,	23265,	23266,
19906,	19914,	21153,	21154,	23268,	23550,
19921,	19960,	21155,	21156,	23552,	23809,
19984,	19985,	21157,	21158,	23813,	23814,
19986,	20185,	21159,	21193,	23815,	23832,
20255,	20421,	21194,	21517,	23844,	23849,
20422,	20536,	21518,	21519,	23853,	23865,
20537,	20538,	21520,	21598,	23902,	23904,
20539,	20540,	21617,	21640,	23909,	23911,
20541,	20542,	21721,	21731,	24183,	24184,
20543,	20544,	21732,	21733,	24187,	24188,
20545,	20574,	21734,	21735,	24722,	24723,
20580,	20581,	21736,	21737,	24816,	24821,
20582,	20583,	21738,	21739,	25458,	25606,
20584,	20585,	21740,	21741,	25614,	25624,
20586,	20587,	21742,	21743,	25627,	25671,
20588,	20589,	21744,	21745,	25939,	26154,
20590,	20675,	21746,	21747,	26165,	26195,
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20680,	20681,	21752,	21753,	26243,	26253,
20682,	20683,	21755,	22023,	26260,	26352,
20684,	20685,	22025,	22257,	26363,	26366,
20686,	20715,	22258,	22259,	26396,	26407,
20721,	20722,	22260,	22338,	26410,	26438,
20723,	20724,	22357,	22380,	26447,	26448,
20725,	20726,	22461,	22471,	26449,	26450,
20727,	20728,	22472,	22473,	26452,	26455,
20729,	20730,	22474,	22475,	26456,	26470,
20731,	20732,	22476,	22477,	26475,	26489,
20733,	20793,	22478,	22479,	26490,	26492,
20794,	20925,	22480,	22481,	26501,	26534,
20926,	20927,	22482,	22483,	26546,	26549,
20928,	20929,	22484,	22485,	26551,	26558,
20930,	20931,	22486,	22487,	26562,	26564,
20932,	20933,	22488,	22489,	26565,	26568,
20934,	20935,	22490,	22491,	26577	

\globalcolorstrue .



..... 1888, 1893	\grp@wdT ..... 9815	11913, 11918,
\GlobalSetatBoolean 5476	\Gscale@box ..... 16793, 16885, 16902	11925, 11930,
\GlobalSetBoolean .	\Gscale@div ..... 16884, 16891, 16894	11937, 15467,
.... 5460, 7380,	\Gscale@end 16797, 16843	15484, 15575,
7381, 7408, 7409,	\Gscale@start 16797, 16843	15734, 15735,
7413, 7414, 7707, 7708	\Gscale@x .. 16795, 16841	15741, 15761,
\glossary .. 15865, 26529	\Gscale@y .. 16795, 16841	15776, 15896,
\glueexpr .... 24955,	\gsetlength ..... 7242, 7395, 7487,	16321, 16328,
24962, 24967,	7949, 8198, 8200,	16333, 16340,
25054, 25115,	8227, 8229, 8256, 8258	16345, 16352,
25118, 25122, 25128		16572, 16573,
\Gm@lmargin 2061, 2092,		16579, 16621,
2098, 2219, 2550, 3746		16626, 16630,
\Gm@pageframes ... 16925		16806, 16852,
\Gm@rmargin ... 2061,		16907, 16912,
2090, 2100, 3337, 3777		16917, 16921,
\Gm@vrule .... 16908,		17978, 18018,
16909, 16910,		18025, 18032,
16912, 16913,		18037, 18119,
16914, 16917,		19122, 19224,
16918, 16919,		19229, 19233,
16922, 16923, 16924		19324, 19325,
\Gm@vrules@mpi ... 16905		19331, 19428,
\Gm@vrules@mpii .. 16915		20419, 20444,
\grid ..... 19784, 19797		20791, 20816,
\Grot@box .... 16783,		20907, 20950,
16791, 21372,		21023, 21131,
21383, 21390, 21400		21191, 21208,
\Grot@box@kv ..... 16784		21883, 21920,
\Grot@box@std .... 16778		22644, 22681,
\Grot@setangle 16779,		23409, 23446,
16790, 21365,		23756, 24446,
21375, 21386, 21393		24608, 24717,
\Grot@x ..... 16781,		25199, 25334,
16786, 21370,		25371, 25373,
21380, 21388, 21398		25439, 25446,
\Grot@y ..... 16782,		25448, 25880,
16787, 21371,		26069, 26070,
21381, 21388, 21399		26145, 26215,
\group .. 18604, 18625,		26220, 26224,
18912, 18925,		26262, 26263,
18930, 18937, 18993		26269, 26459,
\grp@aligned ..... 9818		26540, 26556, 26578
\GRP@box . 9813, 9845, 9847		
\grp@eqs@numbered . 9817		\hbadness ..... 7750,
\grp@hasNumber .... 9822		10788, 10809,
\GRP@label ..... 9814		23885, 23887,
\grp@linewidth .... 9816		25545, 25546, 25563
\GRP@queue ... 9813, 9849		
\grp@setnumber .... 9822		\hbox . 15, 28, 188, 220,
\grp@shiftnumber .. 9819		242, 355, 389, 403,
\grp@wdL ..... 9815		428, 582, 695, 772,
\grp@wdNum ..... 9816		923, 1006, 1178,
\grp@wdR ..... 9815		1252, 1454, 1513,
		1641, 1663, 1671,
		1686, 1694, 1707,



1715, 1728, 1736,	15786,	15825,	25804,	25813,
1900, 1906, 1915,	15830,	16039,	25878,	25879,
1922, 1948, 1960,	16771,	16772,	25883,	25884,
1961, 1992, 2037,	16780,	16785,	25890,	25891,
2042, 2053, 2061,	16796,	16797,	25903,	25909,
2107, 2109, 2111,	16842,	16843,	26071,	26080,
2113, 2115, 2116,	16881,	16888,	26082,	26087,
2118, 2129, 2144,	17923,	17929,	26097,	26112,
2149, 2158, 2173,	17948,	18001,	26141,	26142,
2182, 2183, 2194,	18208,	18228,	26467, 26477, 26479	
2196, 2211, 2213,	18233,	18290,	<code>\hboxL</code> . . . . . 192,	
2215, 2217, 2219,	18293,	18609,	4301, 4303, 4522,	
2223, 2249, 2253,	18625,	18626,	16484, 16501,	
2260, 2261, 2484,	18644,	18904,	18020, 20100, 25804	
2501, 2545, 2705,	18906,	18916,	<code>\hboxR</code> 190, 4295, 4297,	
2710, 2717, 2854,	18952,	18987,	4520, 20090, 25794	
2855, 2856, 2864,	19401,	19435,	<code>\head@style</code> . . . 662,	
2871, 2878, 2956,	19451,	19453,	969, 1163, 1396,	
3281, 3287, 3293,	19563,	19812,	9214, 9391, 20372,	
3360, 3361, 3366,	19814,	19817,	20755, 20822, 20884	
3368, 3370, 3374,	19898,	19953,	<code>\headheight</code> . . . 2219,	
3376, 3378, 3382,	19957,	19977,	4602, 11116,	
3384, 3478, 3504,	20010,	20014,	15873, 21531,	
3592, 3633, 3634,	20019,	20023,	22271, 23044, 26536	
3703, 3740, 3746,	20035,	20046,	<code>\headrulewidth</code> 5073, 7577	
3747, 3995, 3997,	20063,	20073,	<code>\headsep</code> . . . . . 4610,	
4014, 4016, 4309,	20090,	20099,	4613, 11117,	
4527, 4865, 7354,	20100,	20109,	15874, 21532,	
7442, 7444, 7449,	20163,	20164,	22272, 23045, 26545	
7482, 7483, 7492,	20165,	20167,	<code>\headwidth</code> . . . . . 5163	
7499, 7719, 7752,	20168,	20194,	<code>\height</code> . 16787, 16861,	
8070, 8109, 8136,	20212,	20223,	17069, 17071,	
8154, 8172, 8294,	20231,	20243,	17075, 17077,	
8303, 8312, 8747,	20405,	20459,	17104, 17105,	
8755, 8874, 8924,	20777,	20882,	17108, 17109,	
8928, 8939, 8956,	21006,	21036,	17166, 17167,	
8967, 9173, 9187,	21218,	21387,	17170, 17171,	
9229, 9307, 9406,	21444,	21480,	17199, 17201,	
9460, 9734, 9846,	21483,	21498,	17205, 17207,	
9912, 9941, 10103,	22005,	22183,	18955, 18963, 18988	
10106, 10123,	22220,	22223,	<code>\hfil</code> . 15, 220, 554, 573,	
10127, 10847,	22238,	22767,	709, 736, 938, 953,	
10850, 10853,	22956,	22993,	1101, 1192, 1220,	
10904, 10905,	22996,	23011,	1450, 1451, 1452,	
10907, 11131,	23532,	23735,	1453, 1481, 1482,	
11136, 11142,	23783,	23796,	1483, 1489, 1490,	
11365, 11664,	23824,	23835,	1491, 1641, 1672,	
14817, 14827,	23874,	23944,	1674, 1695, 1697,	
14832, 15299,	25326,	25327,	1716, 1718, 1737,	
15310, 15326,	25376,	25378,	1739, 2179, 2183,	
15335, 15514,	25435,	25436,	2205, 2219, 2222,	
15652, 15696,	25639,	25673,	2484, 2545, 2864,	
15699, 15703,	25675,	25681,	2871, 2878, 3281,	
15780, 15784,	25794,	25803,	3287, 3293, 4592,	





4597, 8925, 8927,	19599,	19600,	10303,	10487,
9032, 9243, 9268,	19603,	19604,	10488,	10499,
9420, 9445, 9707,	19605,	19606,	10500,	10512,
9724, 9985, 10104,	19607,	19608,	10513,	10525,
10107,	10124,	19609,	19612,	10560, 10562, 10563
10128,	10158,	19613,	19614,	<code>\holder</code> . 19967, 19970,
10160,	10223,	19615,	19616,	19979, 19989,
10225,	10455,	19617,	19618,	19990, 20008,
10457,	10474,	19619,	19620,	20012, 20017,
10476,	11298,	19623,	19624,	20021, 20033,
11310,	11564,	19625,	19628,	20037, 20044, 20048
12123,	15467,	19629,	19630,	<code>\hook</code> . 6822, 6829, 6875,
15484,	15698,	19633,	19634,	6880, 6891, 6898,
15738,	15740,	19635,	19636,	6908, 6913, 6979, 6993
15766,	15779,	19637,	19640,	<code>\href</code> . . . . . 5209, 5210,
15786,	16576,	19641,	19642,	5213, 5214, 5217, 5218
16578,	16623,	19643,	19644,	<code>\HRTL@mpRTLfootnotetext</code>
16625,	16914,	19647,	19648,	.. 11699, 17293,
16919,	17948,	19649,	19650,	17317, 17331, 17406
18119,	18233,	19651,	20064,	<code>\HRTL@RTLfootnotetext</code>
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19228,	19328,	22043,	22060,	17295, 17368,
19330,	19428,	22238,	22805,	17402, 17481,
19957,	20011,	22822,	23011,	17576, 17598, 17616
20015,	20020,	23570,	23587,	<code>\hrule</code> 31, 245, 578, 766,
20024,	20036,	23984,	24013,	1001, 1246, 7741,
20047,	20073,	25162,	25165,	7742, 7752, 7753,
20419,	20444,	25169,	25328,	8926, 9301, 9454,
20791,	20816,	25437, 25594, 26143		9564, 9570, 9576,
21006,	21023,	<code>\hfilneg</code> . . . 12118, 12121		9582, 9730, 10412,
21191,	21208,	<code>\hfuzz</code> 11129, 23886, 23888		10783, 11361,
24446,	24608,	<code>\hintcolour</code> . . . . . 5103		11660, 11711,
24717,	25199,	<code>\hintfont</code> . . . . . 5111,		15510, 16042,
25334,	25371,	5119, 5173, 5180, 5185		16044, 16076,
25373,	25439,	<code>\hintscolumnwidth</code> .		16489, 17926,
25446,	25448,	. . . . . 5139,		17997, 18380,
25917,	26145,	5153, 5157, 5165,		19515, 19566,
26217,	26219,	5173, 5179, 5185, 5242		20065, 20453,
26266,	26268,	<code>\hintstyle</code> . . . . . 5119		20876, 21032,
26478,	26480,	<code>\hline</code> 18185, 18187, 18193		21214, 21491,
26517,	26518,	<code>\HLOFF</code> . . . . . 4728		21498, 22231,
26520, 26521, 26578		<code>\HLON</code> . . . . . 4722		22238, 23004, 23011
<code>\hfill</code> 1519, 1520, 2235,		<code>\HLTR@LTRfootnotetext</code>		<code>\hrulefill</code> 28, 242, 582,
2240, 2261, 3337,		.. 11691, 17275,		772, 1006, 1252,
3486, 3489, 3623,		17306, 17383,		9307, 9460, 9734,
3714, 5184, 5190,		17401, 17443,		11365, 11664,
5204, 7511, 7512,		17545, 17599, 17619		15514, 16039,
7515, 7516, 8896,		<code>\HLTR@mpLTRfootnotetext</code>		17923, 18001,
8906, 9918, 9919,		.. 11697, 17304,		19563, 20459,
10640,	19403,	17318, 17342, 17405		20882, 21036, 21218
19427,	19588,	<code>\hoffset</code> . . . . . 4606		<code>\hsize</code> . 41, 55, 71, 254,
19591,	19592,	<code>\hold@viper</code> . . 10170,		268, 283, 665, 972,
19593,	19596,	10173, 10229,		1166, 2002, 2200,
19597,	19598,	10232, 10300,		2288, 2289, 2290,



2305, 2306, 2307,	14795,	15067,	25834, 25844,
2322, 2323, 2324,	15098,	15116,	25998, 26369,
2343, 2359, 2375,	15132,	15146,	26413, 26574, 26578
2544, 4552, 4997,	15162,	15198,	
7751, 7752, 7812,	15201,	15228,	\hskip . . . . . 14, 28,
7856, 7900, 8497,	15231,	15242,	219, 242, 315, 319,
9217, 9394, 9842,	15245,	15257,	572, 582, 695, 696,
10104, 10107,	15260,	15271,	735, 772, 923, 924,
10124, 10128,	15274,	15286,	937, 985, 1006,
11741, 11757,	15289,	15300,	1178, 1179, 1219,
11772, 11788,	15311,	15785,	1252, 1399, 1452,
11803, 11816,	15786,	16129,	1453, 1491, 1515,
11829, 11841,	16146,	16162,	1518, 1582, 1639,
11853, 11866,	16190,	16205,	1643, 1669, 1676,
12286, 12316,	16220,	16237,	1692, 1699, 1713,
12345, 12358,	16238,	16384,	1720, 1734, 1741,
12372, 12385,	16489,	16519,	2044, 2046, 2048,
12399, 12409,	16522,	16526,	2050, 2053, 2061,
12415, 12579,	16529,	16530,	2115, 2118, 2126,
12609, 12637,	18115,	18119,	2149, 2156, 2195,
12649, 12662,	18219,	18230,	2204, 2219, 2223,
12674, 12687,	18233,	18260,	2255, 2264, 2737,
12696, 12702,	18349,	18350,	2966, 3004, 3337,
12872, 12902,	18357,	18380,	3366, 3368, 3374,
12931, 12944,	19118,	19122,	3376, 3382, 3384,
12958, 12971,	19355,	19435,	3594, 3631, 3636,
12985, 12995,	19437,	19445,	3672, 3679, 3691,
13001, 13171,	19481,	19485,	3746, 3774, 3777,
13201, 13230,	19489,	19492,	3912, 3922, 3997,
13243, 13257,	19497,	19500,	3998, 4001, 4016,
13270, 13284,	19550,	19554,	4017, 4020, 5256,
13294, 13300,	19558,	20126,	8458, 8898, 8942,
13470, 13500,	20128,	20316,	8943, 8946, 8948,
13529, 13542,	20375,	20825,	8949, 8952, 9229,
13556, 13569,	20887,	20903,	9230, 9267, 9307,
13583, 13593,	20946,	21456,	9406, 9407, 9444,
13599, 13769,	21467,	21469,	9460, 9723, 9734,
13799, 13828,	21538,	21539,	9914, 9917, 9984,
13841, 13855,	21883,	21920,	10157, 10164,
13868, 13882,	21922,	22195,	10168, 10169,
13892, 13898,	22207,	22209,	10454, 10462,
14068, 14098,	22278,	22279,	10467, 10468,
14127, 14140,	22644,	22681,	10848, 10849,
14154, 14167,	22683,	22968,	10852, 10862,
14181, 14191,	22980,	22982,	10863, 10906,
14197, 14367,	23051,	23052,	11297, 11365,
14397, 14426,	23409,	23446,	11664, 14815,
14439, 14453,	23448,	25386,	15483, 15514,
14466, 14480,	25389,	25394,	15697, 15702,
14490, 14496,	25398,	25402,	15706, 15707,
14666, 14696,	25406,	25410,	15762, 15778,
14725, 14738,	25414,	25418,	16039, 16622,
14752, 14765,	25422,	25642,	16629, 16633,
14779, 14789,	25663,	25667,	16634, 16907,
			16909, 16910,



16913,	16918,	24335,	24354,	\hss . . . . .	495,
16921,	16923,	24374,	24409,		554, 573, 709, 736,
16924,	17829,	24601,	24604,		938, 953, 1192,
17837,	17845,	24810,	24842,		1220, 2037, 2606,
17853,	17862,	25321,	25368,		2628, 3633, 3634,
17870,	17879,	25378,	25433,		4335, 4552, 4621,
17887,	17923,	26139,	26216,		8517, 9243, 9268,
17947,	17979,	26223,	26227,		9420, 9445, 9648,
18001,	19225,	26228,	26461,		9707, 9724, 9985,
19232,	19236,	26463, 26477, 26480			10163, 10167,
19237,	19402,	\hspace .	108, 109, 238,		10222, 10228,
19414,	19426,	239, 591, 3510,			10460, 10465,
19481,	19485,	3517, 5174, 5179,			10472, 10479,
19489,	19492,	5185, 7494, 7501,			10851, 10861,
19493,	19497,	7723, 8401, 8402,			10906, 10915,
19500,	19501,	8408, 8409, 8415,			11131, 11134,
19563,	19588,	8416, 8422, 8423,			11136, 11139,
19591,	19593,	8550, 8576, 8577,			11142, 11298,
19596,	19598,	10770, 10943,			11310, 11409,
19600,	19603,	10946, 10950,			11506, 11564,
19605,	19607,	10952, 10957,			11907, 11913,
19609,	19612,	10959, 10963,			11919, 11925,
19614,	19616,	10966, 10969,			11931, 11937,
19618,	19620,	10973, 10975,			15467, 15484,
19623,	19625,	10979, 10981,			15576, 15701,
19628,	19630,	10985, 10988,			15705, 15737,
19633,	19635,	10991, 10995,			15743, 15896,
19637,	19640,	10997, 11002,			16322, 16328,
19642,	19644,	11004, 11317,			16334, 16340,
19647,	19649,	11651, 11908,			16346, 16352,
19651,	19665,	11920, 11932,			16575, 16581,
19915,	19922,	16323, 16335,			16628, 16632,
20405,	20406,	16347, 17044,			16806, 16852,
20443,	20459,	17060, 17073,			16910, 16924,
20758,	20777,	17085, 17098,			18025, 18032,
20778,	20815,	17107, 17115,			18037, 18228,
20882,	21022,	17160, 17169,			18236, 18646,
21036,	21207,	17177, 17190,			18907, 18988,
21218,	21296,	17203, 17215,			19231, 19235,
21298,	21305,	17239, 17918,			19327, 19333,
21307,	21343,	17919, 21855,			19471, 19472,
21345,	21354,	21864, 21960,			19482, 19483,
21356,	21442,	21970, 21973,			19929, 19939,
21498,	21505,	21975, 22616,			20165, 20176,
22181,	22238,	22625, 22721,			20177, 20178,
22245,	22954,	22731, 22734,			20223, 20231,
23011,	23018,	22736, 23381,			20419, 20444,
23744,	23750,	23390, 23486,			20791, 20816,
23762,	23767,	23496, 23499,			20907, 20950,
23983,	24012,	23501, 23682,			21006, 21023,
24178,	24209,	23683, 23690,			21132, 21191,
24232,	24249,	23694, 23700,			21208, 21444,
24266,	24283,	23702, 23707,			21480, 22005,
24300,	24317,	23709, 23989, 24001			22015, 22183,



22220,	22767,	13610,	13893,	\Huge .	8484, 9567, 9579,	
22777,	22956,	13899,	13904,		9759, 9767, 11593,	
22993,	23532,	13909,	14192,		11602, 15497,	
23542,	23756,	14198,	14203,	\huge . . . . .	15505, 21241, 21249	
24608,	24717,	14208,	14491,		602,	
25647,	25649,	14497,	14502,		8338, 8340, 8483,	
25654,	25660,	14507,	14790,		9558, 9753, 11328,	
25880,	26008,	14796,	14801,		11337, 11587,	
26059,	26060,	14806,	14819,		15492, 21236,	
26062,	26063,	14888,	14941,		21580, 22320, 23093	
26065,	26066,	14993,	15044,	\hv@Bottom . . . . .	17139	
26069,	26070,	15419,	15648,	\hv@Center . . .	17043,	
26127,	26128,	16409,	16416,		17054, 17094,	
26129,	26130,	16433,	16440,		17156, 17184, 17237	
26222,	26226,	16441,	16454,	\hv@figure .	17008, 17026	
26265,	26271,	16458,	16481,	\hv@floatObject . . .		
		16652,	16657,		. . . . . 16969, 16973	
\ht	401, 1501, 1534, 1907,	16799,	16800,	\hv@floatType .	16999,	
	1917, 1923, 1936,	16802,	16845,		17008, 17026, 17244	
	2024, 2108, 2110,	16846,	16848,	\hv@Height . . . . .	16981	
	2112, 2114, 2134,	16981,	18194,	\hv@label . . . . .	16950	
	2143, 2145, 2163,	18247,	18262,	\hv@Left . . .	16984, 17052	
	2172, 2174, 2212,	18277,	18279,	\hv@longCap . . . . .	16949	
	2214, 2216, 2218,	18280,	18378,	\hv@Right . .	16985, 17041	
	2224, 2498, 2502,	18385,	18388,	\hv@shortCap . . . . .		
	2546, 2957, 3758,	19209,	19213,		. 16948, 17014, 17032	
	4315, 4533, 9933,	19218,	19309,	\hv@Top .	17067, 17103,	
	9942, 9944, 10263,	19313,	19318,		17123, 17165, 17197	
	10270,	10278,	19369,	\hv@Width . .	16979, 17002	
	10292,	10303,	19569,	\hv@Zero . . .	16968, 17231	
	10320,	10322,	20037,	\hv@AboveCaptionSkip		
	10325,	10327,	20048,		. . . . . 17147, 17150	
	10341,	10354,	20053,	\hv@BelowCaptionSkip		
	10358,	10361,	20055,		. . . . . 17131, 17134	
	10362,	10365,	20060,	\hv@CaptionBox .	17003,	
	10371,	10389,	20075,		17020, 17062,	
	10390,	10403,	20192,		17064, 17075,	
	10433,	10525,	20215,		17077, 17087,	
	10560,	10791,	21282,		17089, 17095,	
	10800,	10812,	21327,		17096, 17104,	
	10821,	10829,	21382,		17105, 17112,	
	10839,	10841,	21389,		17113, 17124,	
	10857,	10886,	23784,		17125, 17131,	
	10896,	10898,	23820,		17134, 17140,	
	10911,	11282,	23832,		17141, 17148,	
	12125,	12410,	23947,		17151, 17157,	
	12416,	12421,	25682,		17158, 17166,	
	12426,	12697,	25684,		17167, 17174,	
	12703,	12708,	26098,		17175, 17192,	
	12713,	12996,	26441, 26451, 26455		17194, 17205,	
	13002,	13007,	\ht@hold@viper	10301,	17207, 17217, 17219	
	13012,	13295,		10303, 10525,	\hv@CapWidth . .	16977,
	13301,	13306,		10526, 10560, 10561		16979, 16981,
	13311,	13594,	\ht@strip	19366, 19367,		
	13600,	13605,		19368, 19369,		
				19370, 19373, 19375		
			\ht@viper	10262, 10268,		
				10269, 10292,		
				10293, 10294,		
				10305, 10459,		
				10464, 10471, 10478		
			\httplink . . . . .	5211		



16983, 16987,	\Hy@Acrobatmenu .. 17748	17689, 17690, 17721
16989, 17004, 17022	\Hy@backout ..... 17775	\Hy@pstringF .....
\hvFloat ..... 16951	\Hy@BeginAnnot ....	.. 17652, 17653,
\hvMaxCapWidth 16962,	.. 17631, 17651,	17654, 17669,
16963, 16984,	17688, 17720, 17749	17689, 17702, 17707
16985, 16986, 16989	\Hy@bidipoem@footnotetext	\Hy@pstringP 17690, 17707
\hvObjectBox .....	..... 17504, 17513	\Hy@pstringURI ....
.. 16966, 16969,	\Hy@bidipoem@LTRfootnotetext	..... 17721, 17734
16971, 16975,	..... 17535, 17544	\Hy@raisedlink 17324,
16981, 17056,	\Hy@bidipoem@RTLfootnotetext	17335, 17346,
17058, 17069,	..... 17566, 17575	17357, 17372,
17071, 17081,	\Hy@CleanupFile .. 17653	17387, 17447,
17083, 17099,	\Hy@colorlink . 17681,	17485, 17518,
17100, 17108,	17713, 17742, 17768	17549, 17580, 17817
17109, 17116,	\Hy@endAnnot .....	\Hy@saved@footnotemark
17117, 17124,	.. 17638, 17684,	..... 17592, 17611
17127, 17132,	17716, 17745, 17771	\Hy@saved@footnotetext
17135, 17140,	\Hy@endcolorlink . 17640	..... 17593, 17614
17143, 17147,	\Hy@footnote@currentHlabel	\Hy@SetNewWindow ..
17150, 17161,	. 17360, 17375, 17390	..... 17676, 17704
17162, 17170,	\Hy@footnote@currentHref	\Hy@setpdfborder ..
17171, 17178,	..... 17322,	..... 17662,
17179, 17186,	17325, 17333,	17696, 17727, 17756
17188, 17199,	17336, 17344,	\Hy@tabularx@hook .
17201, 17211, 17213	17347, 17355,	..... 17399, 17411
\hvObjectWidth ....	17358, 17361,	\Hy@temp@menu 17750, 17763
.. 16975, 16979,	17370, 17373,	\Hy@xspace@end ....
16983, 16984, 16985	17376, 17385,	.. 17647, 17683,
\hvOBox .... 16969, 16973	17388, 17391,	17715, 17744, 17770
\hvSet@capAngle ...	17434, 17472,	\HyLTR@saved@LTRfootnotetext
..... 17002, 17021	17505, 17536, 17567	..... 17595, 17620
\hvSet@capPos .....	\Hy@gttemp .. 17410, 17415	\HyOrg@maketitle ..
.. 16984, 16985,	\Hy@href@nextactionraw	. 17590, 17601, 17606
17052, 17123, 17139	..... 17677,	\HyOrg@TX@endtabularx
\hvSet@capVPos 17054,	17709, 17738, 17764	..... 17398
17067, 17094,	\Hy@href@page .... 17672	\hyper@anchord . 17322,
17103, 17156,	\Hy@linkcounter ...	17325, 17333,
17165, 17184, 17197	..... 11182, 11187	17336, 17344,
\hvSet@capWidth 16979,	\Hy@linktoc ..... 17253	17347, 17355,
16981, 16986, 16987	\Hy@LT@currentHref	17358, 17370,
\hvSet@floatCapSep	..... 17805, 17816	17373, 17385,
..... 17060,	\Hy@LT@LTRfootnotetext	17388, 17445,
17073, 17085,	..... 17433, 17442	17448, 17483,
17098, 17107,	\Hy@LT@RTLfootnotetext	17486, 17516,
17115, 17160,	..... 17471, 17480	17519, 17547,
17169, 17177,	\Hy@MakeRemoteAction	17550, 17578, 17581
17190, 17203, 17215	..... 17656	\hyper@anchorend . 17818
\hvSet@floatPos .. 16997	\Hy@maketitle@end .	\hyper@anchorstart 17818
\hvSet@objectAngle	. 17602, 17607, 17609	\hyper@link ..... 17646
..... 16968, 16972	\Hy@maketitle@optarg	\hyper@linkend ....
\hvSet@objectPos ..	..... 17600, 17605	.. 17257, 17261,
. 17041, 17043, 17237	\Hy@pstringD 17655, 17674	17265, 17267,
\hvSet@rotAngle ...	\Hy@pstringdef ....	17647, 17780, 17783
. 16962, 17231, 17234	.. 17654, 17655,	\hyper@linkfile .. 17649



<code>\hyper@linkstart ..</code>	9803, 9822, 9855,	5846, 6363, 11672,
<code>.. 17257, 17261,</code>	9856, 9857, 15971,	11673, 11686,
<code>17265, 17267,</code>	15995, 16232,	11687, 12039,
<code>17647, 17776, 17783</code>	18006, 18176,	15442, 19573,
<code>\hyper@linkurl ... 17718</code>	18178, 18180,	25882, 25889, 26595
<code>\hyper@makecurrent 17804</code>	19847, 23796,	<code>\if@bidi@def .....</code> 5566
<code>\hyper@nat@current 17777</code>	23830, 23835,	<code>\if@bidi@defmacro .</code>
<code>\hyper@natlinkbreak</code>	23922, 23923,	<code>.... 5589, 5590,</code>
<code>..... 17782</code>	23924, 23925,	<code>5598, 5993, 6012, 6151</code>
<code>\hyper@natlinkend 17779</code>	23926, 23927,	<code>\if@bidi@defparam .</code>
<code>\hyper@natlinkstart</code>	23928, 23930,	<code>..... 6014,</code>
<code>..... 17774</code>	23931, 23932,	<code>6100, 6101, 6153</code>
<code>\hyper@pageduration</code>	23933, 23934,	<code>\if@bidi@defprimitive</code>
<code>..... 2107, 2211</code>	23937, 23938,	<code>..... 5600</code>
<code>\hyper@pagetransition</code>	23939, 26003,	<code>\if@bidi@defprotected</code>
<code>..... 2107, 2211</code>	26004, 26095,	<code>..... 6021,</code>
<code>\hyperlink .....</code> 2481	26112, 26119,	<code>6109, 6110, 6164</code>
<code>\hyperref 16322, 16326,</code>	26120, 26121,	<code>\if@bidi@finalfootnoteperpage</code>
<code>16328, 16334,</code>	26122, 26123, 26124	<code>..... 12037, 12060</code>
<code>16338, 16340,</code>	<code>\if@allcaps ... 793,</code>	<code>\if@bidi@list@minipage@parbox</code>
<code>16346, 16350, 16352</code>	802, 810, 1045,	<code>..... 4259,</code>
<code>\hypersetup 2480, 5057,</code>	1054, 1062, 1295,	<code>25954, 26014,</code>
<code>5065, 8594, 8653, 8670</code>	1304, 1312, 9337,	<code>26023, 26032,</code>
<code>\hypertarget ... 2510,</code>	9346, 9354, 9514,	<code>26041, 26054,</code>
<code>21849, 22610, 23375</code>	9523, 9531, 20509,	<code>26055, 26067, 26068</code>
<code>\hyphenpenalty ... 6,</code>	20518, 20526,	<code>\if@bidi@list@minipage@parbox@not@nob</code>
<code>105, 211, 235,</code>	20648, 20657, 20665	<code>..... 4260,</code>
<code>664, 971, 1165,</code>	<code>\if@altsecnumformat</code>	<code>25962, 26016,</code>
<code>9216, 9393, 17915,</code>	<code>. 21759, 22498, 23271</code>	<code>26025, 26034, 26043</code>
<code>17939, 20374,</code>	<code>\if@bib@break@ 21769,</code>	<code>\if@bidi@mdf@RTL ...</code>
<code>20824, 20886, 21029</code>	21794, 21809,	<code>..... 18340, 18347</code>
<code>\HyRTL@saved@RTLfootnotetext</code>	21825, 22530,	<code>\if@bidi@patchable</code>
<code>..... 17594, 17617</code>	22555, 22570,	<code>..... 5981, 5982</code>
	22586, 23295,	<code>\if@bidi@pdfbanner</code>
	23320, 23335, 23351	<code>..... 4057, 4407</code>
	<code>\if@bibchapter ... 24101</code>	<code>\if@bidi@pdfencrypt</code>
	<code>\if@bidi@banner ...</code>	<code>..... 4251, 4398</code>
	<code>..... 4056, 4216</code>	<code>\if@bidi@pdfm@mark</code>
	<code>\if@bidi@blank ....</code>	<code>..... 4061,</code>
	<code>... 5584, 6086, 6093</code>	<code>4408, 4434, 4492, 4567</code>
	<code>\if@bidi@csdef ....</code>	<code>\if@bidi@perpage@footnote</code>
	<code>.... 4415, 4426,</code>	<code>..... 4062, 4385</code>
	<code>5548, 5597, 18310,</code>	<code>\if@bidi@todonotes@figposition@right</code>
	<code>19513, 25215, 25221</code>	<code>.. 25475, 25573,</code>
	<code>\if@bidi@csmacro .. 5596</code>	<code>25578, 25585, 25591</code>
	<code>\if@bidi@csprimitive</code>	<code>\if@bidi@todonotes@textdirection@RTL</code>
	<code>..... 5606</code>	<code>..... 25474,</code>
	<code>\if@bidi@csundef ..</code>	<code>25508, 25548, 25582</code>
	<code>..... 5263,</code>	<code>\if@bidi@undef ....</code>
	<code>5266, 5269, 5273,</code>	<code>.... 5572, 5637,</code>
	<code>5278, 5554, 5633,</code>	<code>5890, 5901, 5920,</code>
	<code>5669, 5694, 5723,</code>	<code>5924, 5928, 5932,</code>
	<code>5748, 5780, 5786,</code>	<code>5942, 5946, 5950,</code>
	<code>5814, 5820, 5829,</code>	<code>5954, 5990, 6009, 6148</code>

## I

<code>\i .....</code> 6782,
<code>6783, 6795, 6807, 6808</code>
<code>\ialign .....</code> 23789,
<code>23827, 25917, 26103</code>
<code>\if .....</code> 371,
<code>372, 373, 375, 376,</code>
<code>377, 378, 379, 382,</code>
<code>383, 384, 421, 428,</code>
<code>1427, 1428, 1429,</code>
<code>1431, 1432, 1433,</code>
<code>1434, 1435, 1436,</code>
<code>1437, 1440, 1441,</code>
<code>1442, 1465, 1466,</code>
<code>1467, 1469, 1470,</code>
<code>1471, 1472, 1473,</code>
<code>4956, 4962, 4965,</code>
<code>4968, 4971, 6478,</code>
<code>6533, 6537, 6543,</code>
<code>6547, 6588, 6671,</code>



<code>\if@capbreak</code> . . . . .	5713, 5719, 5738, 5744, 5770, 5776, 5804, 5810, 12020	<code>\if@nobreak</code> . . . 7087, 16506, 18351, 20309
<code>\if@captionabove</code> ..		<code>\if@nonlatin</code> . . . . .
. . . . . 21898,	<code>\if@firstcolumn</code> 10135,	. . 346, 358, 4060,
21904, 21998,	10198, 10259,	4383, 5530, 5536,
22009, 22659,	10531, 10550,	9838, 9840, 18335
22665, 22760,	15678, 15714,	<code>\if@noparlist</code> . . . . . 9160
22771, 23424,	16545, 16594,	<code>\if@noskipsec</code> .. 9801,
23430, 23525, 23536	16682, 19157,	16507, 18352, 20310
<code>\if@cfctdopart</code> . . . . 24160	19257, 19363,	<code>\if@oldtoc</code> . 699, 725,
<code>\if@cfthaschapter</code> .	26194, 26241, 26431	927, 943, 1182,
. . . . . 24151,	<code>\if@firstdetailselement</code>	1209, 9233, 9257,
24155, 24161,	. . . . . 10743, 10745	9410, 9434, 20409,
24182, 24194, 24216	<code>\if@firstfooterelement</code>	20433, 20781, 20805
<code>\if@cfthaspart</code> . . . 24147	. . . . . 10647, 10650	<code>\if@openright</code> . . . . .
<code>\if@chapterentrywithdots</code>	<code>\if@hboxRconstruct</code>	. . 8829, 9771, 11606
. . . . . 22819, 23584	. . . . . 4250,	<code>\if@ovb</code> . . . . . 15656
<code>\if@colour</code> . . . . . 5040	4495, 5518, 5524,	<code>\if@ovl</code> . . . . . 15654
<code>\if@colourgreen</code> 10578,	16231, 25961,	<code>\if@ovr</code> . . . . . 15653
10607, 10676, 10702	25985, 26016,	<code>\if@ovt</code> . . . . . 15655
<code>\if@colourgrey</code> 10582,	26025, 26034,	<code>\if@pboxsw</code> . . . . . 26010
10621, 10680, 10714	26043, 26054,	<code>\if@restonecol</code> . . . . .
<code>\if@colourorange</code> ..	26055, 26067, 26068	. . . . . 645, 661,
. . . . . 10576,	<code>\if@ignore</code> . . . 6330, 6332	910, 1162, 9213,
10600, 10674, 10696	<code>\if@inlabel</code> . . . . . 9802	9390, 9600, 20371,
<code>\if@coloured</code> . 10580,	<code>\if@inltxdoc</code> . . . . . 24094	20626, 21085, 24141
10614, 10678, 10708	<code>\if@insert</code> . . . . . 10558	<code>\if@reversemargin</code> 26436
<code>\if@compatibility</code> .	<code>\if@komalongtable</code> .	<code>\if@right@column@shrink</code>
. . 556, 711, 787,	. . 21995, 22757, 23522	. . 10339, 10368, 10443
955, 1039, 1194,	<code>\if@left@column@shrink</code>	<code>\if@right@column@spread</code>
1289, 9331, 9508,	. . . . . 10421	. . . . . 10437
20503, 20642,	<code>\if@left@column@spread</code>	<code>\if@rjfield</code> . . . . . 26475
24186, 24721, 26083	. . . . . 10338, 10415	<code>\if@rl</code> . . . . . 4246
<code>\if@contcw</code> . 19074, 19103	<code>\if@LTRbibitems</code> . 87,	<code>\if@rl@footnote</code> . . . 4258
<code>\if@conthang</code> . . . . . 19084	300, 613, 748,	<code>\if@rlmain</code> . . . . . 4245
<code>\if@contindent</code> . . . 19090	1011, 1261, 2657,	<code>\if@rot@twoside</code> 21286,
<code>\if@DEBUG</code> . . . . . 5011	4256, 5237, 9283,	21291, 21301,
<code>\if@displaypagenumbers</code>	9471, 9780, 11344,	21331, 21337, 21349
. . . . . 5219, 5222	11615, 15519,	<code>\if@RTL</code> . 12, 13, 25, 87,
<code>\if@donumindex</code> . . . . .	17896, 19152,	104, 107, 108, 109,
. . . . . 24102, 24121	19659, 20464,	173, 180, 189, 217,
<code>\if@dotocbib</code> . . . . . 24061	20858, 21052,	218, 234, 237, 238,
<code>\if@dotocind</code> 24109, 24126	21255, 21785,	239, 300, 315, 319,
<code>\if@extrafootnotefeatures</code>	22546, 23311, 24068	551, 568, 571, 572,
. . . . . 4059, 4370	<code>\if@LTRmarginpar</code> ..	595, 608, 613, 665,
<code>\if@fcolmade</code> .. 10184,	. . . . . 4255,	678, 689, 690, 695,
10243, 15710,	26460, 26465, 26469	706, 731, 734, 735,
15750, 15835,	<code>\if@mainmatter</code> . 8801,	748, 916, 917, 923,
16588, 16641,	9557, 9752, 11586,	933, 936, 937, 950,
16670, 19245,	20248, 22501, 22523	972, 1011, 1166,
19342, 26235, 26278	<code>\if@minipage</code> . 7546, 19143	1172, 1173, 1178,
<code>\if@ff@nwpg</code> . . . . . 15803	<code>\if@mparswitch</code> . . . 26433	1189, 1215, 1218,
<code>\if@filesw</code> 5290, 5659,	<code>\if@newlist</code> .. 15851,	1219, 1237, 1261,
5665, 5684, 5690,	15883, 26489, 26564	1400, 1401, 1512,



1513,	1526,	1537,	11636,	11639,	20178,	20226,
1552,	1636,	1642,	11644,	11652,	20232,	20243,
1666,	1675,	1689,	15464,	15479,	20245,	20251,
1698,	1710,	1719,	15482,	15483,	20262,	20264,
1731,	1740,	1983,	15490,	15502,	20275,	20277,
2501,	2551,	2657,	15519,	15786,	20288,	20290,
2753,	2776,	2796,	15944,	16232,	20299,	20301,
2814,	2822,	2841,	16379,	16381,	20318,	20338,
2963,	3002,	3048,	16778,	16780,	20354,	20355,
3231,	3238,	3245,	16783,	16784,	20375,	20388,
3340,	3357,	3363,	16785,	16791,	20399,	20400,
3366,	3369,	3372,	16793,	16810,	20405,	20416,
3374,	3377,	3380,	16813,	16820,	20439,	20442,
3382,	3385,	3505,	16829,	16835,	20443,	20464,
3512,	3557,	3562,	16839,	16842,	20759,	20760,
3648,	3703,	3709,	16856,	16881,	20771,	20772,
3819,	3841,	3895,	16888,	17053,	20777,	20788,
3904,	3914,	3936,	17155,	17257,	20811,	20814,
3977,	3986,	4005,	17265,	17647,	20815,	20825,
4246,	4275,	4494,	17683,	17715,	20838,	20858,
4501,	5237,	5494,	17744,	17770,	20887,	21003,
5500,	5658,	5683,	17776,	17780,	21018,	21021,
5712,	5737,	5769,	17783,	17828,	21022,	21027,
5803,	8457,	8458,	17836,	17844,	21028,	21052,
8575,	8576,	8577,	17852,	17860,	21188,	21203,
9217,	9223,	9224,	17869,	17877,	21206,	21207,
9229,	9240,	9263,	17886,	17896,	21234,	21246,
9266,	9267,	9283,	17914,	17917,	21255,	21366,
9394,	9400,	9401,	17918,	17919,	21368,	21372,
9406,	9417,	9440,	17934,	17945,	21376,	21378,
9443,	9444,	9471,	17946,	17980,	21383,	21387,
9555,	9566,	9568,	17984,	17987,	21390,	21394,
9704,	9719,	9722,	17992,	18014,	21396,	21400,
9723,	9750,	9764,	18024,	18034,	21425,	21433,
9780,	9799,	9811,	18229,	18302,	21458,	21471,
9824,	9899,	9940,	18316,	18323,	21757,	21758,
9941,	9945,	9946,	18343,	18428,	21785,	21833,
9948,	9955,	9961,	18436,	18627,	21834,	21835,
9980,	9983,	9984,	18953,	19033,	21837,	21885,
9990,	9995,	10104,	19034,	19035,	21889,	22164,
10107,	10124,		19036,	19037,	22172,	22197,
10128,	10949,		19038,	19117,	22211,	22497,
10956,	10972,		19119,	19152,	22546,	22594,
10978,	10994,		19397,	19401,	22595,	22596,
11001,	11130,		19402,	19409,	22598,	22646,
11210,	11225,		19414,	19421,	22650,	22937,
11247,	11248,		19426,	19659,	22945,	22970,
11249,	11250,		19746,	19766,	22984,	23270,
11273,	11293,		19781,	19795,	23311,	23359,
11296,	11297,		19827,	19957,	23360,	23361,
11307,	11321,		20007,	20082,	23363,	23411,
11334,	11344,		20136,	20137,	23415,	23681,
11561,	11584,		20140,	20144,	23684,	23689,
11599,	11615,		20176,	20177,	23700,	23707,





23739,	23759,	26072,	26074,	13796,	13807,
23957,	24002,	26075,	26080,	13813,	13820,
24019,	24039,	26127,	26128,	13825,	13962,
24042,	24047,	26134,	26139,	13967,	13979,
24051,	24052,	26460,	26465,	13985,	13992,
24068,	24145,	26469,	26477,	13997,	14007,
24168,	24169,	26478,	26479,	14083,	14090,
24170,	24178,	26480,	26575,	14095,	14106,
24199,	24200,	26578,	26586,	14112,	14119,
24201,	24209,		26596	14124,	14261,
24222,	24223,	\if@RTL@footnote	36,	14266,	14278,
24224,	24232,	249,	2287,	14284,	14291,
24239,	24240,	2340,	4258,	14296,	14306,
24241,	24249,	7825,	11736,	14382,	14389,
24256,	24257,	11752,	11813,	14394,	14405,
24258,	24266,	11826,	12180,	14411,	14418,
24273,	24274,	12185,	12197,	14423,	14560,
24275,	24283,	12203,	12210,	14565,	14577,
24290,	24291,	12215,	12225,	14583,	14590,
24292,	24300,	12301,	12308,	14595,	14605,
24307,	24308,	12313,	12324,	14681,	14688,
24309,	24317,	12330,	12337,	14693,	14704,
24325,	24326,	12342,	12479,	14710,	14717,
24327,	24335,	12484,	12495,	14722,	14955,
24344,	24345,	12501,	12508,	14969,	15006,
24346,	24354,	12513,	12522,	15020,	15055,
24364,	24365,	12594,	12601,	15074,	15080,
24366,	24374,	12606,	12616,	15087,	15103,
24399,	24400,	12622,	12629,	15183,	15190,
24401,	24409,	12634,	12766,	15207,	15213,
24449,	24450,	12771,	12783,	15220,	16123,
24451,	25248,	12789,	12796,	16172,	16214,
25310,	25311,	12801,	12811,	16217	
25312,	25318,	12887,	12894,	\if@RTLbibitems	. 87,
25321,	25368,	12899,	12910,	300,	613,
25428,	25433,	12916,	12923,	748,	
25456,	25463,	12928,	13065,	1011,	1261,
25523,	25526,	12928,	13065,	2657,	
25610,	25645,	13070,	13082,	4257,	5237,
25653,	25680,	13088,	13095,	9283,	
25681,	25684,	13100,	13110,	9471,	9780,
25685,	25687,	13186,	13193,	11344,	
25724,	25728,	13198,	13209,	11615,	15519,
25781,	25786,	13215,	13222,	17896,	19152,
25832,	25833,	13227,	13364,	19659,	20464,
25860,	25861,	13369,	13381,	20858,	21052,
25864,	25868,	13387,	13394,	21255,	21785,
25955,	25963,	13399,	13409,	22546,	23311,
25969,	25975,	13485,	13492,	24068	
25988,	26056,	13497,	13508,	\if@RTLmain	. . . 1544,
26057,	26059,	13514,	13521,	2072,	2080,
26062,	26065,	13526,	13663,	2089,	
26067,	26068,	13668,	13680,	2097,	2119,
26069,	26070,	13686,	13693,	2136,	
		13698,	13708,	2150,	2165,
		13784,	13791,	3219,	
				3311,	3313,
				3316,	
				3426,	3437,
				3450,	
				3457,	3535,
				3628,	
				3635,	3727,
				4031,	
				4245,	4274,
				4293,	
				4493,	4500,
				4519,	
				10000,	10023,



10046,	10069,	973, 1026, 1225,	\ifartopt . . . . .	19053
10453,	10937,	1276, 9602, 11367,	\ifbeamer@centered	2266
11062,	11065,	11460, 15534,	\ifbeamer@colbox@ignorebg	
11071,	11079,	20376, 20490,	.....	1990, 1993
11089,	11099,	20627, 20826,	\ifbeamer@colbox@rounded	
11105,	11119,	20889, 21086,	.....	2026
15949,	16906,	21509, 22249, 23022	\ifbeamer@compress	2695
16916,	16933,	\if@titlepageiscoverpage	\ifbeamer@dogeometry	
16939,	18042,	. 21514, 22254, 23027	.....	2068
18054,	18061,	\if@tocstyle@penalties	\ifbeamer@onlytextwidth	
19354,	19511,	.....	.....	2248
26284,	26505,	\if@todonotes@authorgiven	\ifbeamer@plainframe	
26511, 26540, 26556		.....	.....	2522,
\if@RTLmarginpar ..		.....	.....	2539, 2550, 3591
.....	4254,	\if@todonotes@disabled	\ifbeamer@sb@subsection	
26460, 26465, 26469		.....	...	3799, 3810, 3818
\if@RTLtab . 372, 373,		\if@todonotes@dviStyle	\ifbeamer@theme@subsection	
389, 396, 428, 439,		.....	.....	3559
1408, 1409, 1428,		\if@ttb@rotate ...	\ifbeamer@tree@showhooks	
1429, 1466, 1467,		.....	.....	3994, 4013
4249, 4875, 4879,		\if@twocolumn ...	\ifbeamercoloreempty	
4880, 5506, 5512,		.....	.....	1989, 2909, 2911,
9859, 9861, 9882,		228, 496, 632, 648,	.....	2914, 2924, 2926,
9889, 9911, 9912,		675, 682, 850, 897,	.....	2929, 2939, 2941,
9925, 9936, 18177,		982, 993, 1102,	.....	2944, 3230, 3237,
18179, 18290,		1149, 1234, 1241,	.....	3265, 3267, 3331, 3388
18293, 23774,		1352, 4294, 4300,	\ifbidi@autofootererule	
23778, 23779,		8755, 9200, 9377,	.....	2337,
23796, 23804,		9587, 9649, 11410,	.....	2353, 2369, 15950,
23810, 23835,		11507, 15577,	.....	16184, 16199, 16214
23923, 23924,		16684, 17908,	\ifbidi@in@label ..	
25914, 26087,		19016, 20358,	.....	6542, 6544
26091, 26092,		20385, 20392,	\IfbidiPackageVersion	
26112, 26120, 26121		20566, 20613,	.....	4233
\if@sectionentrywithdots		20707, 20835,	\IfbidiPackageVersionBefore	
.....	22057	20842, 20951,	.....	4227
\if@sentedir . . . . .	4496	21072, 21133,	\IfbidiPackageVersionLater	
\if@specialpage ...		21675, 22415,	.....	4221
.....	15806, 26500	23188, 24096,	\ifblank . . . . .	2615, 3480
\if@star . . . . .	20212	26156, 26430, 26589	\ifblendcolors	25692,
\if@tab@rl . . . . .	4249	\if@twoside . . . . .	.....	25713, 25735, 25762
\if@tablecaptionabove		... 8746, 11097,	\ifbool . . . . .	18365, 18374
. 22027, 22789, 23554		15810, 21556,	\IfBooleanT . . . . .	6971
\if@tempswa ...	2008,	21600, 21678,	\IfBooleanTF ...	6817,
2018, 2027, 2042,		21692, 22296,	.....	6871, 6886, 6904, 6932
10845, 10902,		22340, 22418,	\ifcase ...	1449, 1476,
11972, 21608,		22432, 23069,	.....	1480, 1484, 1488,
22348, 23121, 24903		23113, 23191,	.....	1514, 9913, 17253,
\if@thmmarks ..	19729,	23205, 25636, 26503	.....	18242, 24033,
.....	19733, 19750, 19754	\if@vihproof	.....	24419, 25300,
\if@titlecentered .		19382, 19388	.....	25370, 25480,
.....	1382, 20739	\ifadl@inactive ...	.....	25488, 25712,
\if@titlepage . . . . .		1417	.....	25761, 26171, 26172
.. 449, 666, 774,		\ifadl@usingarypkg	.....	
		1417	.....	
		\ifAM@output . . . . .	.....	
		19873	.....	
		\ifAM@survey . . . . .	.....	
		19851	.....	
		\IfArgIsEmpty . . . . .	.....	
		.....	.....	
		. 21441, 22180, 22953	.....	



<code>\ifcat</code> . . . . .	4285,	10527,	10540,	<code>\ifdofullc@p</code> . . . . .	
	4511, 6428, 6429	10543,	10545,		. 21939, 22700, 23465
<code>\IfClassLoadedF</code> . . .	9601	10792,	10813,	<code>\iffalse</code> . . . . .	
<code>\IfClassLoadedT</code> . . .		10833,	10842,		5415, 5416, 5418,
	. 448, 7237, 9997,	10869,	10873,		5431, 5432, 5433,
	11889, 15917,	10890,	10899,		16506, 16507,
	15930, 24060, 24144	10921,	10925,		18166, 18351,
<code>\ifconvertcolorsU</code> .		11905,	11910,		18352, 20309, 20310
	. . . . . 25698,	11917,	11922,	<code>\IfFileExists</code> . . . . .	
	25714, 25741, 25763	11929,	11934,		. . . 7303, 8775, 8840
<code>\ifcoddpage</code> . . . . .	7323	14889,	14942,	<code>\IfFileLoadedTF</code> . . .	7099
<code>\ifcsname</code> . 5549, 5555,		14994,	15045,	<code>\iffootdir@debug</code> . .	
	5907, 6291, 6305,	15642,	15644,		. . . . . 4058, 15961
	6319, 6329, 6351,	15785,	16320,	<code>\ifFootnoteBackref@numberlinked</code>	
	19683, 19693,	16325,	16332,		. . . . . 16318
	19707, 25255,	16337,	16344,	<code>\ifGin@grid</code> 19782, 19795	
	25256, 25265,	16349,	16391,	<code>\ifGin@iso</code> . . . . .	16895
	25276, 25280,	16399,	16415,	<code>\ifhbox</code> . . . . .	14831, 14835
	25290, 25302,	16416,	16446,	<code>\ifhmode</code> . . . . .	
	25356, 25384,	16454,	16467,		2677, 4940, 7784,
	25385, 25393,	16482,	16515,		7828, 7872, 8115,
	25397, 25401,	16516,	16798,		8121, 9946, 9948,
	25405, 25409,	16805,	16844,		9955, 9961, 9980,
	25413, 25417, 25421	16851,	16896,		23995, 25685,
<code>\ifdefined</code> . . . 5567, 5573		16986,	17124,		25687, 25724,
<code>\ifdefining</code> . . . . .	6548	17140,	18115,		25728, 25781,
<code>\ifdfn@allowcbreak</code>		18230,	18277,		26067, 26068,
	. . . . . 10798, 10819	18280,	19023,		26111, 26341, 26385
<code>\ifdfn@ruleboth</code> . . .		19066,	19073,	<code>\ifhv@fbox</code> . . . 17055,	
	. . . . . 10856, 10910	19077,	19079,		17061, 17068,
<code>\ifdfn@trysingle</code> . .		19118,	19179,		17074, 17080,
	. . . . . 10837, 10894	19187,	19189,		17086, 17095,
<code>\ifdim</code> 1502, 1503, 1905,		19279,	19287,		17099, 17104,
	1912, 1924, 1946,	19289,	19364,		17108, 17112,
	2005, 2007, 2008,	19375,	19459,		17116, 17130,
	2013, 2015, 2017,	19467,	19473,		17146, 17157,
	2019, 2020, 2036,	19487,	19495,		17161, 17166,
	2052, 2532, 3366,	19901,	19954,		17170, 17174,
	3374, 3382, 3586,	19979,	20037,		17178, 17185,
	3625, 3660, 3996,	20048,	20055,		17191, 17198,
	4015, 4222, 4228,	20060,	20075,		17204, 17210, 17216
	4234, 7559, 8126,	20188,	20213,	<code>\ifhv@nonFloat</code> 16998,	
	8895, 8932, 8934,	21869,	21952,		17005, 17023,
	8993, 8994, 8996,	22630,	22713,		17044, 17236, 17238
	9002, 9042, 9054,	23395,	23478,	<code>\ifhv@onlyText</code> . . . .	
	9136, 9138, 9151,	23821,	24759,		. . . . . 17006, 17024
	9153, 9161, 9832,	24804,	24819,	<code>\ifhv@useOBox</code> 16969, 16973	
	10278, 10293,	24824,	25266,	<code>\ifHy@href@ismap</code> . 17735	
	10337, 10340,	25291,	25357,	<code>\ifHy@hyperfootnotes</code>	
	10369, 10377,	25613,	25615,		. 11674, 11688, 17272
	10378, 10384,	25617,	25619,	<code>\ifHy@nesting</code> . . . . .	
	10407, 10414,	25620,	25621,		. . 17321, 17332,
	10420, 10436,	25623,	25663,		17343, 17354,
	10442, 10511,	25670, 26442, 26574			17369, 17384,



17444,	17482,	2720, 2722, 3324,	19973,	19985,
17515, 17546, 17577		3405, 3419, 3420,	19988,	19989,
\ifHy@pdfa ... 17661,		4379, 4380, 4381,	19990,	19992,
17695, 17726, 17755		4541, 4972, 5308,	19993,	19994,
\ifin@label ..... 6550		5831, 6402, 6430,	19995,	20004,
\ifinner .. 4946, 7790,		6432, 6440, 6442,	20026,	20031,
7834, 7878, 16394,		6643, 6653, 6751,	20042,	20053,
25605, 26347, 26391		6757, 6782, 6797,	20054,	20060,
\ifL@RTL ..... 18014		6803, 7109, 7138,	20064,	20067,
\iflatin ..... 5529		7159, 7175, 9015,	20068,	20174,
\ifLtoR ..... 5499		9219, 9235, 9251,	20175,	20182,
\ifLtoRhboxconstruct		9315, 9317, 9319,	20247,	20395,
..... 5523		9396, 9412, 9428,	20411,	20427,
\ifLtoRtable ..... 5511		9492, 9494, 9496,	20485,	20487,
\ifmaskcolors . 25702,		9556, 9650, 9699,	20489,	20567,
25713, 25745, 25762		9714, 9737, 9739,	20708,	20767,
\ifmmode .....		9741, 9751, 9833,	20783,	20799,
4484, 9940, 9945,		10102, 10110,	20850,	20852,
15755, 15765,		10115, 10122,	20854,	20952,
16778, 16780,		10332, 10333,	20999,	21013,
16783, 16784,		10346, 10357,	21039,	21041,
16785, 16791,		10493, 10505,	21043,	21134,
16793, 16810,		10518, 10733,	21183,	21198,
16813, 16820,		11288, 11302,	21221,	21223,
16829, 16835,		11315, 11324,	21225,	21235,
16839, 16842,		11411, 11508,	21421,	21432,
16856, 16881,		11557, 11571,	21501,	21602,
16888, 17632,		11573, 11575,	21649,	21676,
17644, 17647,		11585, 11969,	21725,	22160,
17683, 17715,		11970, 12043,	22171,	22241,
17744, 17770,		12123, 15418,	22342,	22389,
19884, 19942,		15459, 15474,	22416,	22465,
20180, 20216,		15491, 15578,	22500,	22515,
21366, 21368,		15628, 15630,	22518,	22522,
21372, 21376,		15632, 15919,	22933,	22944,
21378, 21383,		15921, 15923,	23014,	23115,
21387, 21390,		15932, 15934,	23162,	23189,
21394, 21396,		15936, 16081,	23238,	23284,
21400, 25680,		16184, 16199,	23287,	23866,
25684, 26005, 26078		16214, 16515,	23914,	23915,
\ifNAT@openbib ... 19662		16517, 16705,	23916,	23917,
\ifnonlatin ..... 5535		17634, 17639,	23919,	24024,
\ifnum 3, 137, 143, 208,		17936, 18086,	24026,	24150,
314, 363, 364, 365,		18089, 18097,	24154,	24196,
366, 368, 497, 546,		18100, 18169,	24215,	24237,
563, 589, 598, 685,		18191, 18192,	24254,	24271,
701, 719, 851, 912,		18272, 18273,	24288,	24305,
945, 963, 1103,		19017, 19050,	24323,	24342,
1168, 1184, 1202,		19176, 19206,	24362,	24397,
1353, 1419, 1420,		19276, 19306,	24580,	24581,
1421, 1422, 1424,		19395, 19407,	24692,	24693,
1463, 1464, 2337,		19419, 19519,	24720,	24730,
2353, 2369, 2616,		19525, 19702,	24744,	25230,
2694, 2698, 2719,		19712, 19967,	25235,	25253,



25426,	25644,	24645,	24646,	8337, 8341, 8389,
25936,	26117,	24647,	24649,	8602, 8648, 8657,
26118,	26132,	24650,	24651,	8665, 8692, 8739,
26187,	26438,	24654,	24657,	8808, 8819, 10637,
26460, 26583, 26584		24666,	24667,	10643, 10660,
\ifodd . . . . .	4957, 8746,	24668,	24671,	10663, 10664,
11070,	11098,	24674,	24928,	10665, 10666,
11169,	15811,	24929,	24930,	10667, 10753,
16926,	16932,	24931,	24932,	10758, 10761,
25636, 26434, 26504		24933,	24934,	10762, 10763,
\ifoddpage . . . . .	7317	24935,	24936,	10764, 10765,
\ifonelinecaptions		25005,	25006,	10768, 10772,
. 21842, 22603, 23368		25007,	25008,	15892, 15907,
\IfPackageLoadedF .		25010,	25011,	19841, 21290, 21335
. . . 7128, 7137, 7157		25012,	25015,	\Iftocfeature . 24600,
\IfPackageLoadedT . 7158		25018,	25027,	24712, 24770, 24780
\ifpgfrememberpicturepositiononpage	25028,	25029,	25029,	\iftocstyle@autolength
. . . . .	19897	25032,	25035,	. . . . . 25275
\ifpoem@started 8989,		25065,	25066,	\iftocstyle@indentnotnumbered
8995, 9135, 9142, 9156		25067,	25069,	. . . . . 25320, 25367
\ifprimitive . . 5601, 5608		25070,	25071,	\iftrue . . . . . 5417,
\ifPst@shift@star 20204		25074,	25077,	5433, 7731, 7744, 7757
\ifr@ggedbottom . . 20154		25086,	25087,	\ifttl@label . . . . . 24000
\ifrot@messages . . .		25088,	25091,	\ifTX@ . . . . . 23856
. . . . . 21336, 21348		25094,	25114,	\IfValueT . . . . . 6942
\ifRtoL . . . . . 5493		25117,	25120,	\ifvbox . . . . . 15351,
\ifRtoLhboxconstruct		25140,	25144,	16752, 19575, 19580
. . . . . 5517		25149,	25161,	\ifvmode . . 5655, 5709,
\ifRtoLtable . . . . . 5505		25164,	25168,	5766, 7087, 7520,
\ifshowgrid . . . . . 20182		25178, 25182, 25187		7523, 7526, 7529,
\ifsomething . . . . . 6681		\Ifstrstart . . 24919,		18380, 19449,
\Ifstr . . 24462, 24463,		24951, 24979,		19740, 19760, 23808
24464, 24465,		24992, 25051, 25203		\ifvoid . 10170, 10186,
24466, 24467,		\iftagsleft@ . . 338, 11127		10229, 10245,
24468, 24469,		\iftest . . . . . 6485		10300, 10487,
24470, 24485,		\ifthenelse 5191, 5208,		10796, 10817,
24486, 24487,		5212, 5216, 5224,		10828, 10853,
24488, 24490,		7216, 7276, 7278,		10885, 10907,
24491, 24492,		7281, 7285, 7288,		11975, 11981,
24495, 24498,		7291, 7316, 7373,		11993, 11999,
24507, 24508,		7392, 7407, 7412,		12005, 12082,
24509, 24512,		7418, 7427, 7438,		15392, 15405,
24515, 24534,		7444, 7450, 7451,		15417, 15430,
24535, 24536,		7458, 7465, 7467,		16250, 16475,
24538, 24539,		7473, 7490, 7508,		16496, 16651,
24540, 24543,		7510, 7514, 7532,		16656, 16674,
24546, 24555,		7533, 7536, 7537,		16676, 16685,
24556, 24557,		7572, 7581, 7592,		16695, 16715,
24560, 24563,		7602, 7651, 7766,		16716, 16720,
24621, 24622,		7990, 8008, 8009,		16731, 16738,
24623, 24624,		8027, 8028, 8046,		17811, 17815,
24625, 24626,		8047, 8078, 8079,		18290, 18396,
24627, 24628,		8197, 8202, 8226,		19434, 19577,
24629, 24644,		8231, 8255, 8260,		20082, 20148,



20150,	20155,	17165,	17184,	23002,	23009,
25786,	25839,	17197,	17231,	23066,	23067,
25849,	26289,	17237,	17250,	23074,	23082,
26304,	26305, 26328	17281,	17292,	23089,	23095,
<code>\ifWF@float</code>	25618, 25632	17303,	17610,	23117,	23133,
<code>\ifx . . . .</code>	115, 134, 136,	17613,	17616,	23140,	23148,
	151, 155, 159, 166,	17619,	17663,	23156,	23168,
	835, 839, 1087,	17671,	17697,	23175,	23190,
	1091, 1337, 1341,	17705,	17728,	23191,	23195,
	2024, 2025, 2404,	17757,	17961,	23196,	23204,
	2430, 2456, 2482,	17982,	18126,	23205,	23209,
	3113, 3119, 3125,	18127,	18131,	23210,	23219,
	3203, 3410, 3435,	18133,	18196,	23220,	23224,
	3455, 3605, 3621,	19127,	19168,	23225,	23233,
	3688, 3752, 3848,	19268,	19533,	23298,	23816,
	3943, 4389, 4390,	19538,	19543,	24035,	24382,
	4823, 4829, 4835,	19688,	19692,	24735,	24741,
	4850, 4881, 4933,	19699,	19705,	24787,	24791,
	4936, 5197, 5198,	19857,	19869,	24795,	24902,
	5199, 5201, 5301,	20145,	20197,	25242,	25313,
	5330, 5333, 5353,	20258,	20271,	25325,	25333,
	5357, 5377, 5381,	20284,	20551,	25350,	25375,
	5396, 5400, 5487,	20555,	20692,	25442,	25447,
	5556, 5574, 5870,	20696,	21454,	25449,	25693,
	6066, 6408, 6414,	21489,	21496,	25736,	25869,
	6415, 6452, 6453,	21553,	21554,	25989,	25992,
	6454, 6455, 6465,	21561,	21569,	25999,	26158,
	6471, 6496, 6501,	21576,	21582,	26166,	26205,
	6506, 6511, 6517,	21604,	21620,	26252,	26517,
	6522, 6710, 8060,	21627,	21635,	26518, 26520, 26521	
	8884, 8905, 9058,	21643,	21655,	<code>\ifXC@tst .</code>	25716, 25765
	9110, 9115, 9117,	21662,	21677,	<code>\ignorespaces . . .</code>	46,
	10146,	21678,	21682,		60, 76, 122, 259,
	10865,	21683,	21691,		273, 288, 346, 671,
	11634,	21692,	21696,		680, 978, 1230,
	11654,	21697,	21706,		1239, 2016, 2234,
	15724,	21707,	21711,		2240, 2244, 2249,
	16359,	21712,	21720,		2261, 2271, 2299,
	16609,	21773,	22193,		2316, 2333, 2349,
	16824,	22229,	22236,		2365, 2381, 2741,
	16867,	22293,	22294,		6239, 6729, 6745,
	16960,	22301,	22309,		6747, 6753, 6756,
	16968,	22316,	22322,		6759, 6763, 6768,
	16981,	22344,	22360,		7543, 7550, 7551,
	16985,	22367,	22375,		7560, 8147, 8165,
	17008,	22383,	22395,		8183, 8219, 8248,
	17011,	22402,	22417,		8277, 8542, 8966,
	17026,	22418,	22422,		8977, 9130, 9131,
	17029,	22423,	22431,		9278, 9466, 9836,
	17041,	22432,	22436,		9842, 9955, 9961,
	17052,	22437,	22446,		9969, 9976, 11639,
	17067,	22447,	22451,		11653, 11719,
	17103,	22452,	22460,		11725, 11731,
	17139,	22533,	22966,		16135, 16152,



16168,	16196,	<code>\InputIfFileExists</code>	18008	.....	3127
16211,	16226,	<code>\insert</code>	.....	35,	<code>\insertenumlabel</code>
16908,	16912,		49, 65, 248, 262,	.....	1673, 1738
16917,	16922,		277, 4291, 4517,		<code>\insertfootnotemark</code>
17968,	17987,		10787, 10803,	.....	2277,
18335,	19140,		10808, 10824,		2282, 2864, 2871,
19147,	20381,		10871, 10877,		2878, 3281, 3287, 3293
20390,	20831,		10923, 10929,	<code>\insertfootnotetext</code>	.....
20840,	21366,		11735, 11751,	.....	2276,
21376,	21394,		11766, 11782,		2281, 2864, 2871,
21912,	21914,		11797, 11995,		2878, 3281, 3287, 3293
22673,	22675,		12179, 12231,	<code>\insertframenummer</code>	
23438,	23440,		12258, 12478,		3215, 3423, 3429,
25724,	25728,		12528, 12553,		3433, 3451, 3453, 3530
25981,	26020,		12765, 12817,	<code>\insertframesubtitle</code>	.....
26029, 26038, 26047			12844, 13064,	.....	3605,
<code>\iii</code>	.....		13116, 13143,		3606, 3752, 3753,
<code>\ilg</code>	.....		13363, 13415,		3848, 3851, 3943, 3946
<code>\immediate</code>	...		13442, 13662,	<code>\insertframetitle</code>	.....
<code>\includegraphics</code>	..		13714, 13741,	.....	3604,
	...		13961, 14013,		3751, 3847, 3942
	10770, 19770, 19843		14040, 14260,	<code>\insertgotosymbol</code>	..
<code>\includemedia</code>	.....		14312, 14339,	<code>\insertinstitute</code>	..
	..		14559, 14611,	...	3064, 3119, 3122
<code>\includepdf</code>	.....		14638, 15054,	<code>\insertinstituteindicator</code>	.....
<code>\indentedwidth</code>	...		15109, 15139,	.....	3121
<code>\index</code>	.....		15423, 15431,	<code>\insertlogo</code>	.....
	6668, 15864, 26528		16122, 16139,	<code>\insertnavigation</code>	..
<code>\indexname</code>	.....		16155, 16675, 16677	.....	3557, 3816
	639,	<code>\insert@column</code>	.....	<code>\insertnote</code>	.....
	640, 641, 655,		.....	1451, 1452,	3395
	656, 904, 905,		1453, 1454, 1456,	<code>\insertpenalties</code>	..
	1156, 1157, 8562,		1457, 1517, 1519,	.....	16086, 16705
	8563, 9207, 9208,		1520, 1522, 1523,	<code>\insertreturnsymbol</code>	2795
	9384, 9385, 9594,		1524, 9916, 9918,	<code>\insertsection</code>	3361, 3368
	9595, 9596, 20365,		9919, 9921, 9922, 9923	<code>\insertsectionhead</code>	.....
	20366, 20620,			.....	3200,
	20621, 21079,		<code>\insertauthor</code>	.....	3510, 3912, 3995, 4003
	21080, 21081,		...	3058, 3113, 3116	<code>\insertshortauthor</code>
	24105, 24106,		<code>\insertauthorindicator</code>	.....	3115
	24107, 24111,		.....	3115	<code>\insertshortdate</code>
	24112, 24113,		<code>\insertblocktitle</code>	..	3480, 3683, 3707
	24116, 24117,		.....	1816, 1825, 1834,	<code>\insertshortframetitle</code>
	24123, 24124,		2906, 2921, 2936,	.....	3378, 3384
	24128, 24129,		3137, 3149, 3161, 3261	<code>\insertshortinstitute</code>	.....
	24130, 24133, 24134			.....	3480
<code>\indexspace</code>	.....		<code>\insertbuttontext</code>	..	2956
<code>\init@mult@footins</code>	15447		<code>\insertcaption</code>	.....	1851, 1866, 2893
<code>\input</code>	.....		.....	1851, 1866, 2893	<code>\insertcaptionname</code>
	4371, 4490, 4577,		.....	1848, 1864, 2890	.....
	5044, 7110, 7114,		<code>\insertcaptionnumber</code>	.....	1848
	7140, 7146, 7160,		.....	1848	<code>\insertdate</code>
	7164, 7198, 7208,		.....	3070, 3125, 3128	.....
	8776, 8841, 26588		<code>\insertdateindicator</code>	.....	3370, 3376
<code>\input@path</code>	.....		.....	18623	



<code>\insertsubsectionhead</code>	11335, 11592, 11601, 11963, 15496, 15504, 16126, 16143,	<code>\itemsep</code> . . . . . 2663, 7265, 8475, 8514, 8528
. . . . . 3203, 3206, 3517, 3569, 3826, 3922, 4014, 4022		<code>\itemx</code> . . . . . 19587
<code>\insertsubsubenumlabel</code>	16159, 19399, 19411, 19423,	<code>\itemxox</code> . . . . . 19622
. . . . . 1717		<code>\itemxoxx</code> . . . . . 19632
<code>\insertsubtitle</code> . . .	20251, 20373, 20398, 20770,	<code>\itemxx</code> . . . . . 19590
. . . 3042, 3110, 3187		<code>\itemxxo</code> . . . . . 19627
<code>\insertttitle</code> . . . . .	20823, 20885, 21240, 21248,	<code>\itemxxox</code> . . . . . 19639
. . . 3036, 3109, 3180		<code>\itemxxx</code> . . . . . 19595
<code>\insertttitlegraphic</code> 3053	23992, 24033,	<code>\itemxxxo</code> . . . . . 19646
<code>\insertttitleindicator</code>	24172, 24203, 24226, 24243,	<code>\itemxxxx</code> . . . . . 19602
. . . . . 3108		<code>\itemxxxxx</code> . . . . . 19611
<code>\inserttocsection</code> .	24260, 24277, 24294, 24311,	<code>\itshape</code> . . 4731, 5204, 8338, 8340, 8344, 8351, 8358, 8393, 8400, 8407, 8414, 8421, 8725, 8726, 8727
. . . . 1579, 1607, 1647, 1757, 1788, 3104		
<code>\inserttocsectionnumber</code>	24329, 24348, 24368, 24403, 24786, 25316, 25430, 25611, 26136	
. . . . . 1582, 1604, 1641, 1785		
<code>\inserttocsubsection</code>	<code>\intermath@penalty</code> 9835	<b>J</b>
. . . . . 1572, 1582, 1610, 1652, 1761, 1796, 2834	<code>\intertextsep</code> . 25671, 25673	<code>\j</code> . . . . . 6803, 6804, 6808
<code>\inserttocsubsectionnumber</code>	<code>\InTheoType</code> . . . . .	<code>\juo@ht</code> . . . . . 19195, 19202, 19295, 19302, 19371, 19378
. . . . . 1582	.. 11143, 19730, 19732, 19751, 19753	<code>\juo@pr</code> . . . . . 19178, 19208, 19278, 19308
<code>\inserttocsubsubsection</code>	<code>\ior</code> . . 18706, 18707, 18711	<code>\juo@sar</code> . . . . . 19177, 19207, 19249, 19277, 19307, 19346
. . . . . 1576, 1587, 1615, 1659, 1767, 1803, 2838	<code>\isempty</code> . . 7392, 7990, 8197, 8202, 8226, 8231, 8255, 8260, 8648, 8657, 8665, 8692	<code>\juo@sk</code> . 19176, 19206, 19249, 19276, 19306, 19346, 19379
<code>\inserttotalframenum</code>	<code>\isodd</code> . . . . . 21290, 21335	<code>\justifying</code> . . . 7299, 7369, 7939, 20296
. . . . 3215, 3414, 3420, 3423, 3439, 3442, 3459, 3462, 3530	<code>\isSC@ODD</code> . . . . 23682,	<code>\JustifyingParfillskip</code> . . . . . 20302
<code>\insertverticalnavigation</code>	23683, 23685, 23686, 23690, 23692, 23694, 23696	<code>\JustifyingParindent</code> . . . . . 7271, 7942, 8501, 20303
. . . . . 3686	<code>\isundefined</code> . . . 7602, 7651, 10637, 10643, 10660, 10663, 10664, 10665, 10666, 10667, 10758, 10761, 10762, 10763, 10764, 10765, 10768, 10772	
<code>\insertvrule</code> . . . . .		
. . . 2061, 3332, 3390	<code>\item</code> . . . . . 102, 232, 644, 659, 908, 991, 1160, 8534, 8542, 8547, 8568, 9211, 9388, 9599, 15760, 15775, 17912, 20369, 20624, 21084, 24140	<b>K</b>
<code>\int</code> . . . . 18656, 18703, 18704, 18708, 18786, 18874, 18877, 18878, 18889, 18927, 18965, 18990, 19806	<code>\itemindent</code> . . . 8529, 8530, 8538, 25943	<code>\keepthetitle</code> . . . . 18999
<code>\interfootnotelinepenalty</code>	<code>\itemize</code> . . . . . 2614	<code>\kern</code> . . . 27, 29, 30, 31, 241, 243, 244, 245, 346, 577, 579, 581, 583, 764, 765, 767, 770, 771, 773, 785, 1000, 1002, 1005, 1007, 1037, 1244, 1245, 1247, 1250, 1251, 1253, 1287, 1515, 1520, 1605, 1646, 1652, 1659, 1756, 1761, 1767, 1787, 1795, 1802,
. . 39, 53, 69, 252, 266, 281, 11963, 16126, 16143, 16159		
<code>\interlinepenalty</code> 39, 53, 69, 252, 266, 281, 596, 663, 688, 915, 970, 1164, 1171, 8454, 9215, 9222, 9392, 9399, 9563, 9758, 9766, 10490, 10502, 10515, 11322,		





2715, 2964, 3006,  
 4754, 4755, 4756,  
 4757, 4758, 4759,  
 4760, 4761, 4765,  
 4766, 4813, 4815,  
 4816, 7741, 7742,  
 7752, 7753, 7755,  
 8220, 8221, 8249,  
 8250, 8278, 8279,  
 9299, 9300, 9302,  
 9305, 9306, 9308,  
 9329, 9452, 9453,  
 9455, 9458, 9459,  
 9461, 9506, 9729,  
 9731, 9733, 9735,  
 9914, 9919, 9941,  
 10782, 10783,  
 11213, 11220,  
 11228, 11235,  
 11274, 11278,  
 11360, 11362,  
 11364, 11366,  
 11659, 11661,  
 11663, 11665,  
 11710, 11711,  
 11898, 11899,  
 15509, 15511,  
 15513, 15515,  
 15653, 15654,  
 15655, 15896,  
 16038, 16040,  
 16041, 16042,  
 16043, 16044,  
 16076, 16364,  
 16428, 16806,  
 16852, 17922,  
 17924, 17925,  
 17926, 17996,  
 17998, 18000,  
 18002, 18335,  
 19458, 19514,  
 19515, 19562,  
 19564, 19565,  
 19566, 20154,  
 20165, 20168,  
 20195, 20211,  
 20451, 20452,  
 20454, 20457,  
 20458, 20460,  
 20501, 20640,  
 20874, 20875,  
 20877, 20880,  
 20881, 20883,  
 21031, 21033,

21035, 21037,  
 21213, 21215,  
 21217, 21219,  
 21488, 21492,  
 21495, 21498,  
 21499, 21893,  
 21895, 21989,  
 21991, 22228,  
 22232, 22235,  
 22238, 22239,  
 22654, 22656,  
 22750, 22752,  
 23001, 23005,  
 23008, 23011,  
 23012, 23419,  
 23421, 23515,  
 23517, 23743,  
 23749, 24006,  
 25646, 25650,  
 25656, 25659,  
 25681, 25840,  
 25850, 25880,  
 25884, 25891, 26457

**\keys** . 4064, 4071, 4078,  
 4085, 4092, 4098,  
 4104, 4110, 4117,  
 4126, 4133, 4140,  
 4156, 4163, 4172,  
 4179, 4338, 4343,  
 4348, 4353, 4358,  
 18419, 18615,  
 18709, 18948, 18949

**\keywords** . . . . . 334

**\kill** . . . . . 18193

**\KOMAClassName** 21448,  
 21621, 21628,  
 21650, 21656,  
 21663, 21851,  
 21860, 21924,  
 22034, 22187,  
 22361, 22368,  
 22390, 22396,  
 22403, 22612,  
 22621, 22685,  
 22796, 22960,  
 23134, 23141,  
 23163, 23169,  
 23176, 23377,  
 23386, 23450, 23561

**\KV@errx** . . 2396, 2399,  
 2402, 2422, 2425,  
 2428, 2448, 2451, 2454

**L**

**\l** . . . . 6837, 6838, 6917,  
 6927, 6928, 6950,  
 6964, 6965, 7005,  
 7009, 7010, 7014,  
 7017, 7021, 7022,  
 7026, 7029, 7033,  
 7034, 7038, 7043,  
 7044, 7048, 11169,  
 11185, 11188,  
 11194, 11197,  
 11199, 11200,  
 11203, 11204,  
 11207, 11210,  
 11211, 11212,  
 11217, 11218,  
 11219, 11225,  
 11226, 11227,  
 11232, 11233,  
 11234, 11243,  
 11246, 11254,  
 18427, 18429,  
 18435, 18437,  
 18443, 18444,  
 18445, 18446,  
 18447, 18448,  
 18449, 18450,  
 18451, 18452,  
 18453, 18455,  
 18456, 18458,  
 18459, 18460,  
 18467, 18468,  
 18469, 18471,  
 18473, 18476,  
 18477, 18484,  
 18494, 18495,  
 18496, 18497,  
 18498, 18499,  
 18500, 18501,  
 18502, 18503,  
 18504, 18505,  
 18506, 18507,  
 18508, 18512,  
 18513, 18514,  
 18516, 18518,  
 18521, 18522,  
 18524, 18525,  
 18526, 18535,  
 18545, 18546,  
 18547, 18548,  
 18549, 18550,  
 18551, 18552,  
 18553, 18559,  
 18561, 18562,



18563,	18566,	\l@paragraph	24270, 25411	15524,	17894,
18568,	18570,	\l@part	..... 545,	17899,	19588,
18575,	18576,		700, 718, 944,	19591,	19593,
18577,	18579,		962, 1183, 1201,	19596,	19598,
18581,	18586,		9234, 9250, 9411,	19600,	19603,
18588,	18590,		9427, 9698, 11301,	19605,	19607,
18598,	18609,		11556, 15458,	19609,	19612,
18610,	18625,		20410, 20426,	19614,	19616,
18626,	18627,		20782, 20798,	19618,	19620,
18628,	18646,		20998, 21182,	19623,	19625,
18666,	18674,		24054, 24055,	19628,	19630,
18679,	18693,		24148, 25387, 25390	19633,	19635,
18698,	18702,	\l@section	.....	19637,	19640,
18703,	18704,		562, 726, 739, 928,	19642,	19644,
18706,	18707,		941, 1210, 1223,	19647,	19649,
18708,	18711,		11287, 24214, 25399	19651,	20469,
18715,	18717,	\l@subfigure	..... 24341	20863,	21057,
18718,	18719,	\l@subparagraph	...	21260,	21792,
18720,	18721,		..... 24287, 25415	22553, 23318, 24073	
18722,	18723,	\l@subsection	24236, 25403	\labelwidth	89, 90, 302,
18725,	18726,	\l@subsubsection	..	303, 616, 617, 751,	
18727,	18728,		..... 24253, 25407	752, 1014, 1015,	
18730,	18731,	\l@subtable	..... 24361	1264, 1265, 2649,	
18732,	18734,	\l@table	8463, 24322, 25419	2660, 2661, 5242,	
18735,	18736,	\label	5228, 7421, 7423,	5244, 8492, 8493,	
18739,	18740,		7425, 7429, 7481,	9286, 9287, 9474,	
18741,	18744,		15863, 16297,	9475, 9783, 9784,	
18777,	18779,		16303, 17016,	11347, 11348,	
18782,	18807,		17034, 21845,	11618, 11619,	
18809,	18841,	\labelitemi	784, 1036,	15522, 15523,	
18845,	18857,		1099, 1286, 9328,	16520, 17898,	
18858,	18904,		9505, 20500, 20639	17899, 19588,	
18914,	18920,	\labelname	... 19588,	19591, 19593,	
18932,	18933,		19591, 19593,	19596, 19598,	
18952,	18953,		19596, 19598,	19600, 19603,	
18954,	18955,		19600, 19603,	19605, 19607,	
18956,	18957,		19605, 19607,	19609, 19612,	
18958,	18959,		19609, 19612,	19614, 19616,	
18960,	18995,		19614, 19616,	19618, 19620,	
18996,	19722,		19618, 19620,	19623, 19625,	
19808, 19810, 19819			19623, 19625,	19628, 19630,	
\l@	..... 24413		19628, 19630,	19633, 19635,	
\l@addto@macro	...		19633, 19635,	19637, 19640,	
	. 21431, 22170, 22943		19637, 19640,	19642, 19644,	
\l@chapter	9258, 9272,		19642, 19644,	19647, 19649,	
	9435, 9449, 9713,		19647, 19649, 19651	19651, 20467,	
	15473, 20434,			20468, 20861,	
	20448, 20806,	\labelsep	... 85, 90,	20862, 21055,	
	20820, 21012,		298, 303, 618, 753,	21056, 21258,	
	21197, 24057,		1016, 1266, 2641,	21259, 21790,	
	24058, 24195, 25395		2662, 5243, 5245,	21791, 22551,	
\l@figure	..... 8462,		8491, 8493, 8550,	22552, 23316,	
	8463, 24304, 25423		9288, 9476, 9785,	23317, 24071, 24072	
\l@ngrel@x	5870, 5871, 5873		11349, 11620,	\landscape	. 18309, 19826



<code>\langle</code> . . . . .	4732	<code>\Largr</code> . . . . .	4735	8999, 9228, 9242,
<code>\Larg</code> . . . . .	4731,	<code>\Largs</code> . . . . .	4734	9265, 9329, 9405,
	4732, 4733, 4734, 4735	<code>\lastbox</code>	10277, 14810,	9419, 9442, 9506,
<code>\Larga</code> . . . . .	4732		14830, 14834,	9706, 9721, 9801,
<code>\Largb</code> . . . . .	4733		18377, 20082,	9802, 9940, 9992,
<code>\LARGE</code> . . . . .	461, 532,		25786, 25838, 25848	11295, 11309,
	792, 882, 1044,	<code>\LastFrameCommand</code> .		11563, 12289,
	1134, 1294, 1385,		. . . . . 16382, 16492	12582, 12875,
	1396, 8393, 8400,	<code>\lastkern</code> . . .	8126, 16467	13174, 13473,
	8482, 8725, 9336,	<code>\lastpenalty</code> .	9833, 25235	13772, 14071,
	9513, 9614, 9685,	<code>\lastrule</code> . . . . .	9880	14370, 14669,
	10722, 11377,	<code>\lastskip</code> . . . . .	7559,	15466, 15481,
	11442, 11472,		9161, 9162, 9832	15760, 15775,
	11543, 15544,	<code>\LastTOCLevelWasHigher</code>		16229, 16794,
	15609, 20508,		. . . . . 25112	16840, 16860,
	20598, 20647,	<code>\LastTOCLevelWasLower</code>		17650, 17687,
	20744, 20755,		. . . . . 25108	17719, 17928,
	20911, 21098, 21169	<code>\LastTOCLevelWasSame</code>		17947, 18372,
<code>\Large</code> . . . . .	599,		. . . . . 25110	19400, 19412,
	8344, 8407, 8481,	<code>\LaTeX</code> . . . . .	17792,	19424, 20081,
	8726, 8727, 10633,		25872, 25873, 25891	20162, 20167,
	10726, 11325, 20987	<code>\LaTeXe</code> . . . . .	25874, 25875	20213, 20254,
<code>\large</code> . . . . .	463, 469,	<code>\LBEG</code> . . . . .	4736	20404, 20418,
	534, 540, 554, 709,	<code>\lcb</code> .	4733, 4736, 4737, 4740	20441, 20501,
	799, 809, 884, 890,	<code>\lccode</code> . . . . .	6430,	20640, 20776,
	953, 1051, 1061,		6432, 25637, 25638	20790, 20813,
	1136, 1142, 1192,	<code>\Lcs</code> . . . . .	4747	21005, 21020,
	1301, 1311, 1387,	<code>\LcsStar</code> . . . . .	4748	21190, 21205,
	1393, 1397, 1402,	<code>\leaders</code> . . . . .	21498,	21498, 22238,
	8351, 8414, 8480,		22238, 23011,	23011, 23723,
	9243, 9343, 9353,		23756, 24048,	23774, 23998,
	9420, 9520, 9530,		25326, 25435, 26141	24021, 24173,
	9616, 9622, 9687,	<code>\leavevmode</code> . . . . .	14,	24204, 24227,
	9693, 9707, 10632,		219, 315, 388, 553,	24244, 24261,
	10634, 10725,		570, 694, 708, 733,	24278, 24295,
	10727, 11310,		785, 922, 935, 952,	24312, 24330,
	11379, 11385,		1037, 1100, 1177,	24349, 24369,
	11444, 11450,		1191, 1217, 1287,	24404, 24597,
	11474, 11480,		1572, 1575, 1579,	24709, 24800,
	11545, 11551,		1582, 1585, 1596,	25317, 25431,
	11564, 15467,		1610, 1613, 1632,	25680, 25877,
	15546, 15552,		1650, 1655, 1754,	25883, 25890,
	15611, 15617,		1760, 1764, 1776,	25902, 25909,
	20419, 20515,		1794, 1800, 1843,	25983, 26087, 26137
	20525, 20600,	<code>\left</code> .	25903, 25910, 25916	
	20606, 20654,	<code>\left@footnoterule</code>		. . . 30, 244, 453,
	20664, 20746,			576, 763, 780, 999,
	20752, 20756,			1032, 1243, 1282,
	20761, 20791,			2337, 2369, 9298,
	20913, 20919,			9324, 9451, 9501,
	21006, 21100,			9606, 9728, 11359,
	21106, 21171,			11371, 11464,
	21177, 21191,			11658, 15508,
	24710, 25142, 25180			



15538,	16041,	8472, 8485, 8492	20825,	20838,
16047,	16060,	<code>\leftmarginii</code> . . . . . 8486	20887,	21003,
16062,	16199,	<code>\leftmarginiii</code> . . . . . 8487	21018,	21021,
16214,	17925,	<code>\leftmarginiv</code> . . . . . 8488	21022,	21027,
17995,	18313,	<code>\leftmarginv</code> . . . . . 8489	21028,	21188,
18315,	20450,	<code>\leftmarginvi</code> . . . . . 8490	21203,	21206,
20496,	20633,	<code>\leftmarginwidth</code> . . . . . 21027	21207,	21428,
20873,	20893,	<code>\leftmark</code> . . . . . 8822	22167,	22940,
21030,	21090,	<code>\leftskip</code> . . . . . 12, 13,	23990,	24002,
21212,	21486,	217, 218, 315, 319,	24019,	24040,
21545,	22226,	551, 568, 571, 572,	24042,	24047,
22285, 22999, 23058		665, 678, 689, 690,	24051,	24052,
<code>\leftfootnoterule</code> .		695, 706, 731, 734,	24168,	24169,
. . . . . 4121,		735, 916, 917, 923,	24170,	24178,
10779, 11707,		933, 936, 937, 950,	24199,	24200,
16045, 16048,		972, 1166, 1172,	24201,	24209,
16289, 16765, 26591		1173, 1178, 1189,	24222,	24223,
<code>\leftline</code> . . . . . 20177, 26067		1215, 1218, 1219,	24224,	24232,
<code>\leftlinennumbers</code> . .		1237, 2004, 2005,	24239,	24240,
. . . . . 18045, 18048		2009, 2817, 2823,	24241,	24249,
<code>\leftmargin</code> . . . . . 90,		3311, 3313, 8449,	24256,	24257,
303, 617, 618, 752,		8457, 8458, 9029,	24258,	24266,
753, 988, 1015,		9217, 9223, 9224,	24273,	24274,
1016, 1265, 1266,		9229, 9240, 9263,	24275,	24283,
2649, 2661, 2662,		9266, 9267, 9394,	24290,	24291,
5244, 5245, 7262,		9400, 9401, 9406,	24292,	24300,
8472, 8531, 8532,		9417, 9440, 9443,	24307,	24308,
8539, 8545, 9287,		9444, 9704, 9719,	24309,	24317,
9288, 9475, 9476,		9722, 9723, 9855,	24325,	24326,
9784, 9785, 11348,		9856, 9857, 9983,	24327,	24335,
11349, 11619,		9984, 9990, 11293,	24344,	24345,
11620, 15523,		11296, 11297,	24346,	24354,
15524, 17899,		11307, 11561,	24364,	24365,
20251, 20468,		12095, 15341,	24366,	24374,
20469, 20862,		15464, 15479,	24399,	24400,
20863, 21056,		15482, 15483,	24401,	24409,
21057, 21259,		17945, 17946,	24449,	24450,
21260, 21436,		18359, 19033,	24451,	25248,
21791, 21792,		19034, 19397,	25310,	25311,
22175, 22552,		19401, 19402,	25312,	25318,
22553, 22948,		19409, 19414,	25321,	25368,
23317, 23318,		19421, 19426,	25428,	25433,
24072, 24073,		20262, 20264,	25456,	25463,
25953, 25956,		20275, 20277,	25832,	25833,
25966, 25970,		20288, 20290,	26050,	26074,
25978, 26015,		20299, 20301,	26075, 26134, 26139	
26017, 26018,		20375, 20388,	<code>\LEND</code> . . . . . 4737	
26019, 26024,		20399, 20400,	<code>\leqno</code> . . . . . 338, 20173,	
26026, 26027,		20405, 20416,	20175, 26582, 26584	
26028, 26033,		20439, 20442,	<code>\let</code> . . . . . 86, 102,	
26035, 26036,		20443, 20771,	115, 152, 153, 156,	
26037, 26042,		20772, 20777,	157, 160, 161, 164,	
26044, 26045, 26046		20788, 20811,	232, 299, 329, 337,	
<code>\leftmargini</code> . . . . . 7262,		20814, 20815,	338, 357, 391, 392,	



398, 423, 427, 433,  
445, 451, 452, 453,  
454, 455, 456, 457,  
475, 476, 477, 478,  
479, 480, 481, 482,  
483, 484, 485, 486,  
510, 511, 512, 513,  
514, 515, 516, 517,  
518, 519, 520, 521,  
522, 529, 530, 531,  
621, 644, 659, 756,  
778, 779, 780, 781,  
782, 820, 821, 822,  
823, 824, 825, 826,  
827, 828, 829, 864,  
865, 866, 867, 868,  
869, 870, 871, 872,  
873, 874, 881, 908,  
1019, 1030, 1031,  
1032, 1033, 1034,  
1072, 1073, 1074,  
1075, 1076, 1077,  
1078, 1079, 1080,  
1081, 1116, 1117,  
1118, 1119, 1120,  
1121, 1122, 1123,  
1124, 1125, 1126,  
1133, 1160, 1269,  
1280, 1281, 1282,  
1283, 1284, 1322,  
1323, 1324, 1325,  
1326, 1327, 1328,  
1329, 1330, 1331,  
1366, 1367, 1368,  
1369, 1370, 1371,  
1372, 1373, 1374,  
1375, 1376, 1384,  
1410, 1411, 1415,  
1431, 1432, 1433,  
1469, 1470, 1471,  
1496, 1497, 1498,  
1499, 1504, 1539,  
1540, 1882, 2185,  
2186, 2209, 2227,  
2236, 2337, 2353,  
2369, 2384, 2385,  
2386, 2393, 2394,  
2395, 2396, 2397,  
2402, 2403, 2419,  
2420, 2421, 2422,  
2423, 2428, 2429,  
2445, 2446, 2447,  
2448, 2449, 2454,  
2455, 2649, 2667,

2669, 4152, 4153,  
4160, 4280, 4282,  
4284, 4450, 4506,  
4508, 4510, 4553,  
4626, 4627, 4628,  
4629, 4630, 4631,  
4632, 4633, 4634,  
4635, 4636, 4820,  
4821, 4822, 4849,  
4866, 4867, 4868,  
4869, 4870, 4871,  
4872, 4873, 4874,  
4876, 4877, 4878,  
4988, 4989, 4990,  
4991, 4992, 4993,  
4994, 4995, 4996,  
5248, 5257, 5330,  
5348, 5372, 5391,  
5396, 5415, 5416,  
5423, 5424, 5427,  
5428, 5431, 5432,  
5438, 5439, 5442,  
5443, 5446, 5447,  
5450, 5451, 5485,  
5618, 5621, 5635,  
5871, 5893, 5915,  
5916, 6046, 6118,  
6120, 6123, 6124,  
6125, 6126, 6127,  
6182, 6220, 6227,  
6235, 6246, 6252,  
6260, 6263, 6266,  
6276, 6280, 6282,  
6347, 6348, 6353,  
6460, 6463, 6494,  
6580, 6587, 6590,  
6600, 6610, 6621,  
6688, 6698, 6700,  
6734, 6745, 7083,  
7254, 7384, 7385,  
7422, 7423, 7429,  
7431, 7435, 7480,  
7481, 7563, 7565,  
7567, 7713, 7714,  
7727, 7731, 7733,  
7734, 7740, 7744,  
7748, 7757, 8001,  
8002, 8020, 8021,  
8039, 8040, 8067,  
8068, 8096, 8097,  
8098, 8195, 8216,  
8217, 8218, 8224,  
8245, 8246, 8247,  
8253, 8274, 8275,

8276, 8292, 8296,  
8297, 8298, 8301,  
8305, 8306, 8307,  
8310, 8314, 8315,  
8316, 8463, 8527,  
8568, 8655, 8722,  
8723, 8724, 8914,  
8915, 8917, 8918,  
8936, 8957, 8958,  
8959, 8960, 8961,  
8962, 8963, 8964,  
8965, 8968, 8969,  
8970, 8971, 8972,  
8973, 8974, 8975,  
8976, 9037, 9055,  
9106, 9112, 9133,  
9146, 9156, 9170,  
9174, 9175, 9176,  
9177, 9178, 9179,  
9180, 9181, 9182,  
9188, 9189, 9190,  
9191, 9192, 9193,  
9194, 9195, 9196,  
9211, 9291, 9322,  
9323, 9324, 9325,  
9326, 9364, 9365,  
9366, 9367, 9368,  
9369, 9370, 9371,  
9372, 9373, 9388,  
9479, 9499, 9500,  
9501, 9502, 9503,  
9541, 9542, 9543,  
9544, 9545, 9546,  
9547, 9548, 9549,  
9550, 9599, 9604,  
9605, 9606, 9607,  
9608, 9609, 9610,  
9628, 9629, 9630,  
9631, 9632, 9633,  
9634, 9635, 9636,  
9637, 9638, 9639,  
9663, 9664, 9665,  
9666, 9667, 9668,  
9669, 9670, 9671,  
9672, 9673, 9674,  
9675, 9682, 9683,  
9684, 9788, 9812,  
9814, 9817, 9818,  
9819, 9825, 9830,  
9850, 9862, 9863,  
9864, 9866, 9867,  
9873, 9874, 9875,  
9876, 9896, 9905,  
9946, 9952, 9973,



10147,	10150,	11692,	11693,	13318,	13319,
10151,	10210,	11694,	11695,	13323,	13327,
10213,	10214,	11696,	11697,	13328,	13329,
10777,	10778,	11698,	11699,	13330,	13333,
10779,	10780,	11700,	11705,	13335,	13342,
10781,	10784,	11706,	11707,	13343,	13344,
10785,	10787,	11708,	11709,	13348,	13352,
10805,	10806,	11872,	11873,	13353,	13354,
10808,	10826,	11874,	11875,	13355,	13358,
10827,	10831,	11876,	11877,	13360,	13616,
10866,	10868,	11880,	11881,	13617,	13618,
10880,	10883,	11882,	11883,	13622,	13626,
10884,	10888,	11884,	11885,	13627,	13628,
10918,	10920,	11889,	12133,	13629,	13632,
10932,	10935,	12134,	12135,	13634,	13641,
10936,	10983,	12139,	12143,	13642,	13643,
11007,	11015,	12144,	12145,	13647,	13651,
11023,	11352,	12146,	12149,	13652,	13653,
11369,	11370,	12151,	12158,	13654,	13657,
11371,	11372,	12159,	12160,	13659,	13915,
11373,	11391,	12164,	12168,	13916,	13917,
11392,	11393,	12169,	12170,	13921,	13925,
11394,	11395,	12171,	12174,	13926,	13927,
11396,	11397,	12176,	12432,	13928,	13931,
11398,	11399,	12433,	12434,	13933,	13940,
11400,	11424,	12438,	12442,	13941,	13942,
11425,	11426,	12443,	12444,	13946,	13950,
11427,	11428,	12445,	12448,	13951,	13952,
11429,	11430,	12450,	12457,	13953,	13956,
11431,	11432,	12458,	12459,	13958,	14214,
11433,	11434,	12463,	12467,	14215,	14216,
11441,	11462,	12468,	12469,	14220,	14224,
11463,	11464,	12470,	12473,	14225,	14226,
11465,	11466,	12475,	12719,	14227,	14230,
11467,	11468,	12720,	12721,	14232,	14239,
11486,	11487,	12725,	12729,	14240,	14241,
11488,	11489,	12730,	12731,	14245,	14249,
11490,	11491,	12732,	12735,	14250,	14251,
11492,	11493,	12737,	12744,	14252,	14255,
11494,	11495,	12745,	12746,	14257,	14513,
11496,	11497,	12750,	12754,	14514,	14515,
11521,	11522,	12755,	12756,	14519,	14523,
11523,	11524,	12757,	12760,	14524,	14525,
11525,	11526,	12762,	13018,	14526,	14529,
11527,	11528,	13019,	13020,	14531,	14538,
11529,	11530,	13024,	13028,	14539,	14540,
11531,	11532,	13029,	13030,	14544,	14548,
11533,	11540,	13031,	13034,	14549,	14550,
11541,	11542,	13036,	13043,	14551,	14554,
11623,	11675,	13044,	13045,	14556,	14839,
11676,	11677,	13049,	13053,	14850,	14851,
11678,	11679,	13054,	13055,	14852,	14855,
11680,	11689,	13056,	13059,	14858,	14859,
11690,	11691,	13061,	13317,	14864,	14865,



14866,	14867,	15881,	15883,	18201,	18202,
14868,	14872,	15886,	15887,	18206,	18212,
14873,	14903,	16020,	16048,	18224,	18249,
14904,	14905,	16074,	16075,	18257,	18258,
14908,	14911,	16184,	16199,	18259,	18313,
14912,	14917,	16214,	16241,	18314,	18351,
14918,	14919,	16242,	16243,	18352,	18353,
14920,	14921,	16244,	16278,	18354,	18355,
14925,	14926,	16360,	16366,	18363,	18410,
14956,	14958,	16371,	16506,	18411,	18412,
14960,	14961,	16507,	16508,	19001,	19002,
14964,	14967,	16509,	16561,	19003,	19004,
14968,	14970,	16564,	16565,	19005,	19006,
14972,	14974,	16610,	16613,	19007,	19008,
14975,	14978,	16614,	16750,	19009,	19065,
15007,	15009,	16765,	16766,	19068,	19069,
15011,	15012,	16767,	16768,	19071,	19072,
15015,	15018,	16769,	16863,	19169,	19172,
15019,	15021,	16897,	16899,	19173,	19269,
15023,	15025,	16927,	16929,	19272,	19273,
15026,	15029,	16934,	16936,	19505,	19508,
15061,	15092,	16940,	16942,	19535,	19536,
15110,	15126,	17273,	17274,	19540,	19541,
15140,	15156,	17275,	17316,	19545,	19546,
15195,	15225,	17317,	17318,	19669,	19670,
15239,	15254,	17360,	17361,	19671,	19787,
15268,	15283,	17362,	17375,	19788,	19789,
15320,	15348,	17376,	17377,	19790,	19791,
15414,	15444,	17390,	17391,	19793,	19837,
15527,	15536,	17392,	17398,	19842,	19856,
15537,	15538,	17400,	17401,	19888,	20083,
15539,	15540,	17402,	17403,	20087,	20132,
15558,	15559,	17404,	17405,	20133,	20134,
15560,	15561,	17406,	17415,	20135,	20138,
15562,	15563,	17451,	17489,	20139,	20141,
15564,	15565,	17522,	17553,	20146,	20169,
15566,	15567,	17584,	17590,	20170,	20171,
15591,	15592,	17592,	17593,	20172,	20173,
15593,	15594,	17594,	17595,	20238,	20255,
15595,	15596,	17596,	17597,	20259,	20261,
15597,	15598,	17598,	17599,	20272,	20274,
15599,	15600,	17611,	17614,	20285,	20287,
15601,	15608,	17617,	17620,	20297,	20298,
15664,	15689,	17787,	17788,	20309,	20310,
15692,	15693,	17789,	17790,	20311,	20312,
15725,	15728,	17805,	17816,	20313,	20326,
15729,	15812,	17895,	17912,	20332,	20344,
15813,	15815,	17961,	18014,	20352,	20353,
15816,	15819,	18154,	18166,	20369,	20472,
15820,	15849,	18183,	18184,	20494,	20495,
15851,	15853,	18185,	18187,	20496,	20497,
15863,	15864,	18189,	18193,	20498,	20536,
15865,	15871,	18195,	18197,	20537,	20538,
15875,	15878,	18198,	18200,	20539,	20540,



20541,	20542,	21122,	21123,	22470,	22471,
20543,	20544,	21147,	21148,	22472,	22473,
20545,	20580,	21149,	21150,	22474,	22475,
20581,	20582,	21151,	21152,	22476,	22477,
20583,	20584,	21153,	21154,	22478,	22479,
20585,	20586,	21155,	21156,	22480,	22481,
20587,	20588,	21157,	21158,	22482,	22483,
20589,	20590,	21159,	21166,	22484,	22485,
20597,	20624,	21167,	21168,	22486,	22487,
20631,	20632,	21263,	21288,	22488,	22489,
20633,	20634,	21315,	21316,	22490,	22491,
20635,	20636,	21333,	21405,	22492,	22493,
20637,	20675,	21406,	21407,	22495,	22564,
20676,	20677,	21521,	21541,	22589,	22590,
20678,	20679,	21543,	21544,	22605,	22606,
20680,	20681,	21545,	21546,	22607,	22608,
20682,	20683,	21547,	21548,	22609,	22610,
20684,	20685,	21549,	21551,	22695,	22782,
20686,	20721,	21598,	21617,	22784,	22790,
20722,	20723,	21640,	21670,	22792,	22917,
20724,	20725,	21672,	21721,	22918,	22919,
20726,	20727,	21726,	21727,	23034,	23054,
20728,	20729,	21728,	21729,	23056,	23057,
20730,	20731,	21730,	21731,	23058,	23059,
20732,	20733,	21732,	21733,	23060,	23061,
20741,	20742,	21734,	21735,	23062,	23064,
20743,	20866,	21736,	21737,	23111,	23130,
20891,	20892,	21738,	21739,	23153,	23183,
20893,	20894,	21740,	21741,	23185,	23234,
20895,	20896,	21742,	21743,	23239,	23240,
20897,	20925,	21744,	21745,	23241,	23242,
20926,	20927,	21746,	21747,	23243,	23244,
20928,	20929,	21748,	21749,	23245,	23246,
20930,	20931,	21750,	21751,	23247,	23248,
20932,	20933,	21752,	21753,	23249,	23250,
20934,	20935,	21755,	21803,	23251,	23252,
20936,	20965,	21828,	21829,	23253,	23254,
20966,	20967,	21844,	21845,	23255,	23256,
20968,	20969,	21846,	21847,	23257,	23258,
20970,	20971,	21848,	21849,	23259,	23260,
20972,	20973,	21934,	22020,	23261,	23262,
20974,	20975,	22022,	22028,	23263,	23264,
20976,	20977,	22030,	22144,	23265,	23266,
20983,	20984,	22145,	22146,	23268,	23329,
20985,	21060,	22261,	22281,	23354,	23355,
21084,	21088,	22283,	22284,	23370,	23371,
21089,	21090,	22285,	22286,	23372,	23373,
21091,	21092,	22287,	22288,	23374,	23375,
21093,	21094,	22289,	22291,	23460,	23547,
21112,	21113,	22338,	22357,	23549,	23555,
21114,	21115,	22380,	22410,	23557,	23714,
21116,	21117,	22412,	22461,	23715,	23716,
21118,	21119,	22466,	22467,	23719,	23775,
21120,	21121,	22468,	22469,	23776,	23777,





23780,	23791,	25747,	25787,	11049,	11053,
23792,	23793,	25791,	25856,	11054,	11057, 11058
23800,	23801,	25857,	25858,	\line . . .	10004, 10005,
23806,	23815,	25859,	25862,	10007,	10008,
23816,	23817,	25863,	25865,	10014,	10015,
23819,	23822,	25870,	25872,	10017,	10018,
23826,	23829,	25874,	25886,	10027,	10028,
23831,	23834,	25893,	25896,	10030,	10031,
23843,	23846,	25897,	25898,	10037,	10038,
23859,	23860,	25899,	25903,	10040,	10041,
23861,	23876,	25904,	25910,	10050,	10051,
23877,	23878,	25911,	25912,	10053,	10054,
23879,	23880,	25924,	25946,	10060,	10061,
23881,	23883,	26008,	26049,	10063,	10064,
23884,	23887,	26052,	26053,	10073,	10074,
23888,	23962,	26084,	26088,	10076,	10077,
23963,	23966,	26089,	26090,	10083,	10084,
23968,	23969,	26093,	26105,	10086,	10087,
23970,	23985,	26106,	26107,	20176,	20177, 20178
24014,	24043,	26108,	26114,	\LineNumber ..	18023,
24048,	24054,	26115,	26116,	18025,	18027,
24057,	24076,	26154,	26206,	18032,	18035, 18037
24140,	24146,	26209,	26210,	\linenumberwidth ..	
24175,	24176,	26253,	26256,	. 18025, 18032, 18037	
24177,	24206,	26257,	26487,	\lineskip . . . . .	424,
24207,	24208,	26489,	26492,	464,	535, 800,
24229,	24230,	26504,	26506,	885,	1052, 1137,
24231,	24246,	26508,	26510,	1302,	1388, 1397,
24247,	24248,	26512,	26514,	5077,	9344, 9521,
24263,	24264,	26517,	26518,	9617,	9688, 11380,
24265,	24280,	26520,	26521,	11445,	11475,
24281,	24282,	26527,	26528,	11546,	15547,
24297,	24298,	26529,	26534,	15612,	15867,
24299,	24314,	26546,	26549,	18225,	18360,
24315,	24316,	26551,	26558,	20323,	20516,
24332,	24333,	26562,	26564,	20601,	20655,
24334,	24351,	26567,	26568,	20747,	20756,
24352,	24353,	26581,	26582,	20914,	20990,
24371,	24372,	26590,	26591,	21101,	21172,
24373,	24406,	26592,	26756, 26758	21586,	22326,
24407,	24408,	\LetLtxMacro	16291, 16292	23099,	23795,
24471,	24630,	\Letter . . . . .	5093	23834,	26110, 26530
24813,	24851,	\lettergroup . . . . .	8579	\lineskiplimit . . . .	
24904,	24907,	\lftside . . . . .	20013,	. . . . .	15868, 26530
24937,	24983,	20015,	20018,	\linespacing ..	24, 17933
24996,	25208,	20020,	20034, 20036	\linespread ..	3179, 5857
25229,	25445,	\Line . . . . .	11010,	\linewidth . . . .	5201,
25453,	25458,	11013,	11018,	7457,	15761,
25465,	25482,	11021,	11026,	15776,	15780,
25485,	25545,	11027,	11030,	16518,	16526,
25603,	25607,	11031,	11035,	16527,	16529,
25685,	25690,	11036,	11039,	16530,	16963,
25700,	25704,	11040,	11044,	18357,	19073,
25733,	25743,	11045,	11048,	19079,	19744,



19746,	19764,	. 986, 8530, 8537,	17352,	17367,
19766,	19971,	8538, 25942, 25951	17382,	17425,
19977,	20063,	\listtablename 8440, 8441	17442,	17463,
20072,	20073,	\llap . . . . . 1597, 1633,	17480,	17496,
20126,	20128,	1650, 1657, 1755,	17513,	17527,
20316,	21539,	1760, 1766, 1777,	17544,	17558,
21855,	21864,	1795, 1802, 2606,	17575,	17800,
21922,	22005,	2628, 3691, 8517,	18106,	19015,
22279,	22616,	11142, 11906,	19065,	19115,
22625,	22683,	11918, 11930,	19137,	19549,
22767,	23052,	16321, 16333,	19553,	19557,
23381,	23390,	16345, 16772,	19952,	20161,
23448,	23532,	16908, 16910,	20499,	20564,
25834,	25844,	16912, 16914,	20638,	20705,
25952,	25953,	16917, 16919,	20901,	20944,
25980,	26015,	16922, 16924,	21130,	21422,
26017,	26018,	23741, 24003, 24021	21452,	22161,
26019,	26024,	\LoadClass . . . 8764, 8788	22191,	22934,
26026,	26027,	\long . . . 34, 48, 64, 247,	22964,	23713,
26028,	26033,	261, 276, 493, 783,	23899,	23903,
26035,	26036,	848, 1035, 1098,	23906,	23910,
26037,	26042,	1285, 1350, 4619,	25679,	25876,
26044,	26045,	4883, 4886, 4889,	25982,	26357,
26046, 26476, 26479		4894, 4897, 4900,	26361,	26365,
\link . . . . . 5207		5366, 5367, 5376,	26401,	26405,
\list . 89, 302, 615, 750,		5379, 5390, 5586,	26409, 26468, 26571	
986, 1013, 1263,		5590, 5623, 5625,	\longindentation . 11651	
2603, 2624, 2647,		5627, 5629, 5873,	\longthickrule . . . .	
2659, 8510, 8528,		5877, 5987, 6006,	. . . . . 20982, 20988	
8537, 8545, 9285,		6073, 6089, 6101,	\loop . . . . . 4379, 4380,	
9473, 9782, 11346,		6110, 6145, 6173,	4381, 6643, 6653,	
11617, 15521,		6185, 6186, 6560,	10097, 10307,	
17898, 19661,		6562, 6567, 6568,	14828, 19969,	
20466, 20860,		6585, 6586, 6593,	20005, 20032,	
21054, 21257,		6602, 6605, 6612,	20043, 20070, 23854	
21787, 22548,		6630, 7080, 7391,	\looprepeat 6660, 6664,	
23313, 24070, 25935		7540, 7800, 7804,	6708, 6779, 6786,	
\listdoubleitemmaincolumnwidth		7808, 7844, 7848,	6791, 6797, 6800,	
. . . . . 5147, 5160,		7852, 7888, 7892,	6802, 6806, 6807, 6812	
5161, 5162, 5189, 5193		7896, 8107, 8194,	\lower . . . . . 2109,	
\listfigurename . . .		8223, 8252, 9063,	2113, 2144, 2173,	
. . . . . 8432, 8433		9066, 9069, 9073,	2213, 2217, 2501,	
\listitemmaincolumnwidth		9076, 9079, 9327,	4318, 4536, 20167,	
. . . . . 5146,		9504, 9646, 9939,	20201, 20209,	
5154, 5155, 5187		10786, 10807,	25673, 25883, 25890	
\listitemsymbol . . .		11407, 11504,	\lowercase . . . . 5453,	
5088, 5145, 5186,		15574, 16122,	5461, 5469, 5477	
5188, 10588, 10686		16139, 16155,	\lowertitleback . . .	
\listitemsymbolwidth		16183, 16198,	. . . 21629, 21664,	
. . . . . 5144,		16213, 16770,	21751, 22369,	
5145, 5155, 5161		16784, 16793,	22404, 22491,	
\listoffigures . . . . . 8430		16839, 16880,	23142, 23177, 23264	
\listoftables . . . . . 8438		16887, 17319,	\LR 17788, 20134, 20167,	
\listparindent . . . .		17330, 17341,	25858, 25883,	



25887, 25890, 25894	\LT@lastfoot . . . . .	13479, 13778,
\lrb . . . . . 4735, 4744	. 18277, 18279, 18290	14077, 14376,
\LRE . . . . . 4281, 4335,	\LT@LL@FM@cr 18202, 18206	14675, 15176, 16331
4507, 4552, 17787,	\LT@make@row . . . . . 18223	\LTRfootmarkstyle .
20134, 20137,	\LT@make@caption . . .	. . . . . 11902, 11941
25485, 25858, 25861	. . 18227, 18238,	\LTRfootnote . . . 456,
\LRfootnoterule . . .	21996, 22758, 23523	530, 2444, 4821,
. 10781, 11709, 16048	\LT@mcol 18183, 18228,	4829, 8286, 8636,
\LS@rot . . . . . 18301	22004, 22766, 23531	9609, 9683, 11467,
\lsb . . . . . 4734, 4742	\LT@no@pgbk 18191, 18192	11541, 16103,
\lst@caption . 18127,	\LT@nofcols . . . . . 18222	16291, 16294,
18133, 18140, 18145	\LT@output . . . . . 18271	20636, 20742,
\lst@alloverstyle .	\LT@p@ftn . . . . 17420,	20896, 20984,
. . . . . 4723, 4729	17423, 17427,	21093, 21167,
\lst@HRefStepCounter	17437, 17458,	21548, 22288, 23061
. . . . . 18127, 18133	17461, 17465,	\LTRfootnotetext . .
\lst@ifnumberbychapter	17475, 18264,	. . . . 4887, 4898,
. . . . . 18166, 18167	18265, 18267, 18268	9067, 9077, 16262,
\lst@Key . . . 18070, 18077	\LT@p@ftntext . . . . 18257	16264, 17421,
\lst@MakeCaption . .	\LT@p@LTRftntext . .	18264, 23900, 23904
. . . . . 18125, 18138	. . . . . 17418,	\LTRfootscript . . . .
\lst@makecaption . .	17425, 18258, 18263	. . 11902, 11919,
. . . . . 18122, 18155	\LT@p@RTLftntext . .	11923, 11925,
\lst@maketitle 18123,	. . . . . 17456,	16334, 16338, 16340
18156, 18160, 18162	17463, 18259, 18266	\LTRfoottextfont . .
\lst@title@dropdelim	\LT@rows . . 18217, 18242	. . . . . 11731,
. . . . . 18123	\LT@setprevdepth . 18218	11801, 11841,
\lstKV@SwitchCases	\LT@start . . 17813, 17823	11958, 12131,
. . . . . 18071, 18078	\LT@startpbox . . . . .	12156, 12233,
\lstset . . . . . 4648	. 18199, 18206, 18255	12248, 12295,
\LT@ohl . . . . 18185, 18187	\LT@tabularcr . . . . 18189	12357, 12371,
\LT@tabarray 18184, 18188	\LT@caption . . . . .	12430, 12455,
\LT@array . . . . 17796,	. 18240, 18244, 18245	12530, 12544,
18174, 22020,	\LT@capwidth . . . . . 18228	12588, 12648,
22021, 22782,	\LTleft . . . . . 18177,	12661, 12717,
22783, 23547, 23548	18179, 18181, 18219	12742, 12819,
\LT@bchunk . . . . .	\LTR . . 20126, 25834, 25836	12834, 12881,
. 18215, 18222, 18226	\LTR@column@boxes .	12943, 12957,
\LT@caption . . 18193,	. 19465, 19509, 19511	13016, 13041,
22022, 22028,	\LTR@outputdblcol .	13118, 13133,
22030, 22784,	. . 10197, 15713,	13180, 13242,
22790, 22792,	16544, 19256,	13256, 13315,
23549, 23555, 23557	26240, 26284, 26286	13340, 13417,
\LT@cols . . . . . 18228,	\LTRbiditufthesidenotemarginpar	13432, 13479,
22004, 22766, 23531	. . . 7827, 8153, 8303	13541, 13555,
\LT@end@pen . . . . . 18273	\LTRcite . . . . .	13614, 13639,
\LT@endpbox . . . . . 18195	8097, 8217, 8246,	13716, 13731,
\LT@err . . . . . 18274	8275, 8297, 8306, 8315	13778, 13840,
\LT@foot . . . . . 17811,	\LTRdblcol . . . . . 26286	13854, 13913,
17815, 18277,	\LTRdfnmakecol . . . 10939	13938, 14015,
18281, 18290, 18293	\LTRfootfootmark . .	14030, 14077,
\LT@head . . . 18284, 18297	. . 11730, 11916,	14139, 14153,
\LT@hline . . . . . 18193	12295, 12588,	14212, 14237,
\LT@kill . . . . . 18193	12881, 13180,	14314, 14329,



14376, 14438,  
 14452, 14511,  
 14536, 14613,  
 14628, 14675,  
 14737, 14751,  
 14848, 14901,  
 14953, 14981,  
 14991, 15004,  
 15032, 15042,  
 15112, 15128,  
 15176, 15241, 15256  
 \LTRight . . . . . 18177,  
 18179, 18181, 18220  
 \LTRmarginnote . . . . 8300  
 \LTRmarginpar . . . . 26340  
 \LTRmulticolcolumns  
 . . . . . 19507  
 \LTRsidenote . . 8022, 8282  
 \LTRthanks . 456, 476,  
 511, 530, 8636,  
 8644, 8661, 8677,  
 8688, 9609, 9629,  
 9664, 9683, 11467,  
 11487, 11522,  
 11541, 16260,  
 19002, 20636,  
 20676, 20722,  
 20742, 20896,  
 20926, 20966,  
 20984, 21093,  
 21113, 21148,  
 21167, 21548,  
 21727, 22288,  
 22467, 23061, 23240  
 \ltx@firstofthree .  
 . . . . . 15973, 15997  
 \ltx@ifundefined . .  
 . . . . . 15967, 15991  
 \ltx@secondofthree  
 . . . . . 15976, 16000  
 \ltx@thirdofthree .  
 . 15969, 15986, 15993  
  
**M**  
 \m@advipersep . . . .  
 . . . . . 19198, 19298  
 \m@m@float@spacing 11893  
 \m@m@footnote@spacing  
 . . 11737, 11753,  
 11768, 11784,  
 11799, 11814,  
 11827, 11839,  
 11851, 11864,  
 11892, 12186,

12216, 12232,  
 12247, 12259,  
 12274, 12314,  
 12343, 12356,  
 12370, 12383,  
 12397, 12408,  
 12414, 12420,  
 12425, 12485,  
 12514, 12529,  
 12543, 12554,  
 12568, 12607,  
 12635, 12647,  
 12660, 12672,  
 12685, 12695,  
 12701, 12707,  
 12712, 12772,  
 12802, 12818,  
 12833, 12845,  
 12860, 12900,  
 12929, 12942,  
 12956, 12969,  
 12983, 12994,  
 13000, 13006,  
 13011, 13071,  
 13101, 13117,  
 13132, 13144,  
 13159, 13199,  
 13228, 13241,  
 13255, 13268,  
 13282, 13293,  
 13299, 13305,  
 13310, 13370,  
 13400, 13416,  
 13431, 13443,  
 13458, 13498,  
 13527, 13540,  
 13554, 13567,  
 13581, 13592,  
 13598, 13604,  
 13609, 13669,  
 13699, 13715,  
 13730, 13742,  
 13757, 13797,  
 13826, 13839,  
 13853, 13866,  
 13880, 13891,  
 13897, 13903,  
 13908, 13968,  
 13998, 14014,  
 14029, 14041,  
 14056, 14096,  
 14125, 14138,  
 14152, 14165,  
 14179, 14190,

14196, 14202,  
 14207, 14267,  
 14297, 14313,  
 14328, 14340,  
 14355, 14395,  
 14424, 14437,  
 14451, 14464,  
 14478, 14489,  
 14495, 14501,  
 14506, 14566,  
 14596, 14612,  
 14627, 14639,  
 14654, 14694,  
 14723, 14736,  
 14750, 14763,  
 14777, 14788,  
 14794, 14800,  
 14805, 15062,  
 15093, 15111,  
 15127, 15141,  
 15157, 15196,  
 15226, 15240,  
 15255, 15269,  
 15284, 15302,  
 15313, 15327, 15336  
 \m@m@h . . . . . 12116,  
 12117, 12118,  
 12120, 12121, 12126  
 \m@m@k . . . . . 12116,  
 12117, 12120,  
 12123, 12124, 12126  
 \m@m@makecolfloats  
 . 15346, 15397, 15404  
 \m@m@makecolintro .  
 . 15361, 15390, 15401  
 \m@m@makecoltext . .  
 . 15350, 15398, 15409  
 \m@m@singlespace . 11891  
 \m@m@make@eightcol@footgroup  
 . 13920, 13945, 14188  
 \m@m@make@fivecol@footgroup  
 . 13023, 13048, 13291  
 \m@m@make@footstart .  
 . 12093, 12104, 12109  
 \m@m@make@fourcol@footgroup  
 . 12724, 12749, 12992  
 \m@m@make@peightcol@footgroup  
 . 13930, 13955, 14200  
 \m@m@make@mpfivecol@footgroup  
 . 13033, 13058, 13303  
 \m@m@make@mpfourcol@footgroup  
 . 12734, 12759, 13004  
 \m@m@make@mpninecol@footgroup  
 . 14229, 14254, 14499



<code>\m@make@mppara@footgroup</code>	12378,	12391,	15264, 15278, 15293
. 14870, 14923, 15321	12405,	12492,	<code>\m@old@footnotetext</code>
<code>\m@make@mpsevenscol@footgroup</code>	12521,	12536,	. 11872, 11880, 14956
. 13631, 13656, 13901	12550,	12561,	<code>\m@old@LTRfootnotetext</code>
<code>\m@make@mpsixcol@footgroup</code>	12575,	12614,	. . . . . 11873, 11881
. 13332, 13357, 13602	12642,	12654,	<code>\m@old@mpfootnotetext</code>
<code>\m@make@mpntencol@footgroup</code>	12667,	12679,	. 11875, 11883, 14970
. 14528, 14553, 14798	12692,	12780,	<code>\m@old@mpLTRfootnotetext</code>
<code>\m@make@mpthreecol@footgroup</code>	12810,	12826,	. . . . . 11876, 11884
. 12447, 12472, 12705	12841,	12853,	<code>\m@old@mpRTLfootnotetext</code>
<code>\m@make@mpwocol@footgroup</code>	12868,	12908,	. 11877, 11885, 14975
. 12148, 12173, 12418	12937,	12950,	<code>\m@old@RTLfootnotetext</code>
<code>\m@make@ninescol@footgroup</code>	12964,	12977,	. 11874, 11882, 14961
. 14219, 14244, 14487	12991,	13079,	<code>\m@mopfootnote</code> . . . .
<code>\m@make@para@footgroup</code>	13109,	13125,	. . . . . 15362, 15395
. 14856, 14909, 15294	13140,	13152,	<code>\m@mremovehboxes</code> . .
<code>\m@make@para@footstart</code>	13167,	13207,	. . . . . 14834,
. . 14857, 14863,	13236,	13249,	14835, 15299,
14910, 14916,	13263,	13276,	15310, 15326, 15335
14966, 15017, 15339	13290,	13378,	<code>\m@mrigidbalance</code> . .
<code>\m@make@sevenscol@footgroup</code>	13408,	13424,	. . 12117, 12411,
. 13621, 13646, 13889	13439,	13451,	12422, 12698,
<code>\m@make@sixcol@footgroup</code>	13466,	13506,	12709, 12997,
. 13322, 13347, 13590	13535,	13548,	13008, 13296,
<code>\m@make@tencol@footgroup</code>	13562,	13575,	13307, 13595,
. 14518, 14543, 14786	13589,	13677,	13606, 13894,
<code>\m@make@threecol@footgroup</code>	13707,	13723,	13905, 14193,
. 12437, 12462, 12693	13738,	13750,	14204, 14492,
<code>\m@make@twocol@footgroup</code>	13765,	13805,	14503, 14791, 14802
. 12138, 12163, 12406	13834,	13847,	<code>\m@msplitoff</code> 12123, 12125
<code>\m@doextrafeet</code> . . .	13861,	13874,	<code>\m@mungebox</code> . . . . .
. . 11950, 15391,	13888,	13976,	. . 14816, 15071,
15402, 15433, 15446	14006,	14022,	15102, 15120,
<code>\m@doextrafeetendmini</code>	14037,	14049,	15136, 15150,
. . . . . 12077, 12081	14064,	14104,	15166, 15205,
<code>\m@doextrafeetmini</code>	14133,	14146,	15235, 15249,
. . . . . 12070	14160,	14173,	15264, 15278, 15293
<code>\m@mdosplits</code> . . 12119,	14187,	14275,	<code>\m@munnvxh</code> . . 14808, 14817
12122, 12123, 12124	14305,	14321,	<code>\m@ne</code> 314, 589, 598, 5414,
<code>\m@minterparanoteglue</code>	14336,	14348,	5430, 5632, 6380,
. . . . . 14823, 14825	14363,	14403,	6387, 6639, 6644,
<code>\m@mipn@skip</code> . . . . .	14432,	14445,	6654, 6735, 7795,
. 14815, 14822, 14824	14459,	14472,	7839, 7883, 9556,
<code>\m@mmakehboxofhboxes</code>	14486,	14574,	9714, 9751, 10097,
. . 14826, 15298,	14604,	14620,	11315, 11324,
15309, 15325, 15334	14635,	14647,	11585, 15474,
<code>\m@mmf@prepare</code> 11747,	14662,	14702,	15491, 17643,
11763, 11778,	14731,	14744,	19439, 20247,
11794, 11809,	14758,	14771,	21013, 21198,
11897, 12194,	14785,	15071,	21235, 22096,
12224, 12240,	15102,	15120,	22866, 22869,
12255, 12267,	15136,	15150,	23631, 23634,
12282, 12322,	15166,	15205,	24154, 24196,
12351, 12364,	15235,	15249,	25254, 26352,



26396, 26431, 26434	15535, 15559,	\marginline . . . . .
\m@th 394, 11131, 11136,	15570, 15592,	. 21836, 22597, 23362
11142, 15761,	17590, 17591,	\marginnote . . . . . 8291
15776, 18224,	17956, 19010,	\marginpar . . . . .
25326, 25435,	20492, 20537,	7361, 8069, 21837,
25916, 26010,	20559, 20581,	22598, 23363, 25521
26080, 26082, 26141	20629, 20678,	\marginparpush . . . .
\maincolumnwidth . .	20700, 20724,	. . . . . 7294, 26450
5142, 5151, 5152,	20890, 20928,	\marginparsep . . . . .
5153, 5154, 5156,	20939, 20968,	. . . . . 4605, 5053,
5160, 5175, 5179, 5204	21087, 21115,	7335, 7338, 7342,
\mainend . . . . . 3405	21126, 21150,	7494, 7501, 16907,
\mainmatter . . . . . 8815	21500, 21623,	16909, 16913,
\makeatletter . . . . .	21630, 21651,	16918, 16921,
. . . . . 6053, 6064,	21658, 21665,	16923, 26461, 26463
7113, 7144, 7163, 7179	21729, 22240,	\marginparwidth 4604,
\makebox . . . . . 11130,	22363, 22370,	5054, 7334, 7339,
11135, 11204,	22391, 22398,	7351, 7449, 7719,
11207, 11210,	22405, 22469,	7812, 7856, 7900,
11217, 11225,	23013, 23136,	16907, 16909,
11232, 11273,	23143, 23164,	16921, 16923,
11277, 19781, 19799	23171, 23178, 23242	26369, 26413, 26463
\makefooter . . . . .	\maketitledetailsnewline	\markboth . . 124, 603,
. 10653, 10654, 10670	. . 10744, 10759,	8820, 11329, 17970
\MakeFramed . . . . . 16384	10761, 10762,	\math@cr@@@align . . 348
\makelabel . . . . .	10763, 10764, 10765	\mathindent 15762, 15778
2606, 2626, 2649,	\maketitledetailswidth	\mathsurround . 426, 9829
2669, 8517, 25946	. . . . . 10736,	\max@poem@no . . . . .
\MakeLineNo . . . . . 18017	10738, 10739,	. . . 9015, 9117, 9118
\makeLineNumber . . .	10740, 10741, 10756	\maxdepth . . . . 15399,
. . . . . 18018, 18020	\maketitlehookb . . 19060	15410, 16756, 16763
\makeLineNumberLeft	\maketitlehookc . . 19062	\maxdimen 10138, 10139,
. . . . . 18023	\maketitlenamefullwidth	10141, 10201,
\makeLineNumberRight	. 10730, 10731, 10733	10202, 10204,
. . . . . 18031	\maketitlenamemaxwidth	15067, 15098,
\maketag@@@ . . . 346,	. 10728, 10729, 10733	15116, 15132,
11128, 11141, 18335	\maketitlenamewidth	15146, 15162,
\makethanksmark . . 19015	. . . . . 10732,	15201, 15231,
\maketitle . . . . 110,	10733, 10739, 10751	15245, 15260,
323, 330, 450, 478,	\maketitlepage 8698, 8740	15274, 15289,
489, 513, 776, 821,	\maketitlepicturewidth	15635, 15681,
843, 865, 1028,	. . . . . 10734,	15682, 15683,
1073, 1095, 1117,	10735, 10741, 10770	15717, 15718,
1278, 1323, 1345,	\MakeUppercase . 125,	15719, 16391,
1367, 4615, 4627,	612, 640, 641, 656,	16552, 16553,
5168, 8612, 8716,	747, 905, 1010,	16555, 16601,
8740, 9320, 9365,	1157, 1260, 9208,	16602, 16604,
9497, 9542, 9603,	9282, 9385, 9470,	19160, 19161,
9631, 9642, 9666,	9595, 9596, 9779,	19163, 19260,
10635, 10749,	11343, 11614,	19261, 19263,
11368, 11392,	15518, 17971,	23847, 23886,
11403, 11425,	20366, 20463,	25386, 25389,
11461, 11489,	20621, 20857,	25394, 25398,
11500, 11524,	21080, 21081, 21254	25402, 25406,



25410, 25414,	10721, 10722,	22686, 22688,
25418, 25422,	10723, 10726, 10727	22690, 22691,
25607, 26197,	\meaning . . . . .	22692, 22962,
26198, 26200,	5329, 5332, 5592,	23136, 23143,
26244, 26245, 26247	6043, 6062, 6077,	23164, 23171,
\mbox . . . 16868, 21556,	6095, 6103, 6112, 6179	23178, 23339,
21678, 21692,	\mediabutton . . . . .	23346, 23378,
21707, 22296,	. 18935, 18995, 18996	23387, 23451,
22418, 22432,	\medskip . . . . . 8922	23453, 23455,
22447, 23069,	\medskipamount . . . . .	23456, 23457,
23191, 23205, 23220	. . . . 1814, 1823,	24829, 24831, 24834
\mc@col@status@write	1832, 2904, 2919,	\metropolis@block . 3227
. . . . . 19469, 19490	2934, 3135, 3147,	\metropolis@blockadjust
\mc@gridwarn . . . . . 19459	3159, 3228, 11653	. . . . 3247, 3248,
\mc@lastcol@status@write	\mem@makecol 15389, 15411	3249, 3253, 3254, 3255
. . . . . 19475, 19498	\memRTLleftskip . . 19033	\metropolis@blocksep
\mdf@footnotedistance@length	\memRTLraggedleft 19038	. . . 3247, 3253, 3270
. . . . . 18398	\memRTLraggedright 19037	\metropolis@parskip
\mdf@footnoteinput 18406	\memRTLrightskip . 19034	. . . . . 3271, 3274
\mdf@footnoteoutput	\memRTLvleftskip . 19035	\metropolis@progressinheadfoot
. . . . . 18395	\memRTLvrightskip 19036	. . . 3529, 3536, 3538
\mdf@frametitleaboveskip@length	\message . . 4480, 4481,	\metropolis@progressinheadfoot@linewidth
. . . . . 18390	16392, 16400,	. . . 3534, 3536, 3538
\mdf@frametitlealignment	16404, 16409,	\metropolis@progressonsectionpage
. . . . . 18371	16417, 16423,	. . . 3214, 3220, 3222
\mdf@frametitlebelowskip@length	16433, 16438,	\metropolis@progressonsectionpage@linewidth
. . . . . 18391	16440, 16447,	. . . 3218, 3220, 3222
\mdf@frametitlebox	16455, 16468,	\metropolis@strut .
. . 18370, 18383,	16476, 16481,	. . . . . 3260, 3262
18384, 18385,	16486, 16499,	\MH 11140, 11144, 11149,
18386, 18388, 18389	16510, 16518, 16530	11150, 11154,
\mdf@frametitlefont	\MessageBreak . . . . .	11158, 11159,
. . . . . 18373	. . . . 148, 6297,	11163, 11171,
\mdf@frametitlefontcolor	6311, 6323, 6335,	11173, 11178,
. . . . . 18372	7375, 7471, 7698,	11190, 11198,
\mdf@horizontalmargin@equation	7699, 7767, 8371,	11203, 11206,
. . . . . 18348	8372, 8373, 8375,	11209, 11211,
\mdf@ignorevbadness	8376, 8380, 8381,	11212, 11214,
. . . . . 18382	8382, 8384, 8385,	11215, 11218,
\mdf@lrbox . 18341, 18370	19111, 19112,	11219, 11221,
\mdf@par@local . . . 18364	19442, 19461,	11222, 11224,
\mdf@patchamsthm . 18342	19530, 21450,	11226, 11227,
\mdfframedtitleenv 18369	21623, 21630,	11229, 11230,
\mdfframetitleboxdepth	21651, 21658,	11233, 11234,
. . . . . 18386	21665, 21813,	11236, 11237,
\mdfframetitleboxheight	21820, 21852,	11239, 11244,
. . . . . 18385	21861, 21925,	11245, 11246,
\mdfframetitleboxtotalheight	21927, 21929,	11247, 11248,
. . . . . 18387	21930, 21931,	11249, 11250,
\mdfframetitleboxwidth	22189, 22363,	11251, 11252,
. . . . . 18384	22370, 22391,	11261, 11263,
\mdseries . . . . . 317,	22398, 22405,	11267, 11268, 11270
10629, 10631,	22574, 22581,	\MHInternalSyntaxOff
10633, 10634,	22613, 22622,	. . . . . 11285, 18338



<code>\MHInternalSyntaxOn</code>	<code>\modernpoem@par</code> . . .	14773, 14873,
. . . . . 11125, 18332	. . . 8917, 8918, 9134	14926, 14978,
<code>\MidFrameCommand</code> . .	<code>\month</code> . . . . . 3324	15029, 15208, 15280
. 16380, 16424, 16492	<code>\morefloats</code> . . 7601, 7698	<code>\mpfootnoterule</code> . . .
<code>\minrowclearance</code> . .	<code>\moreLRE</code> . . . . . 4282,	. . . . . 16075, 16079
. . . 1501, 1535, 9934	4508, 20088, 25792	<code>\msg</code> . . 6918, 6921, 6932,
<code>\mintagvsep</code> . . . . . 11145	<code>\moreRLE</code> . . . . . 4284,	18484, 18487,
<code>\missingfigure</code> . . . .	4510, 20089, 25793	18535, 18538,
. . . . . 25565, 25595	<code>\moveleft</code> 2501, 7751, 19354	18553, 18556, 18598
<code>\mix</code> 18429, 18430, 18437,	<code>\moveright</code> 2501, 3358,	<code>\MT</code> . . . . . 11164,
18438, 18464,	3364, 3373, 3381,	11170, 11172, 18333
18481, 18504,	15869, 19452, 26533	<code>\mult@cols</code> . . . . . 19548
18507, 18509,	<code>\mp@footgroupv@r</code> . .	<code>\mult@firstbox</code> . . . .
18532, 18564,	. . . . . 12073,	. 19466, 19480, 19486
18572, 18581,	12115, 12149,	<code>\mult@footnotetext</code>
18592, 18603,	12174, 12327,	. . . . . 151, 153,
18605, 18610,	12366, 12448,	19533, 19536, 19549
18611, 18613,	12473, 12619,	<code>\mult@info</code> . . . . . 19440
18614, 18616,	12656, 12735,	<code>\mult@LTRfootnotetext</code>
18628, 18637,	12760, 12913,	. . . . . 155, 157,
18640, 18641,	12952, 13034,	19538, 19541, 19553
18642, 18652,	13059, 13212,	<code>\mult@rightbox</code> . . . .
18662, 18663,	13251, 13333,	. . 19433, 19473,
18665, 18666,	13358, 13511,	19474, 19476,
18671, 18672,	13550, 13632,	19495, 19496, 19499
18688, 18690,	13657, 13810,	<code>\mult@RTLfootnotetext</code>
18692, 18697,	13849, 13931,	. . . . . 159, 161,
18736, 18743,	13956, 14109,	19543, 19546, 19557
18744, 18747,	14148, 14230,	<code>\multfootsep</code> . . 8111, 8129
18765, 18767,	14255, 14408,	<code>\multi@column@out</code> .
18770, 18772,	14447, 14529,	. . . . . 15446, 19574
18775, 18782,	14554, 14707,	<code>\multicol@leftmargin</code>
18790, 18792,	14746, 14872,	. . . . . 19443, 19452
18845, 18850,	14925, 15210, 15251	<code>\multicols</code> . . . . . 19518
18861, 18862,	<code>\mp@LTRfootgroupv@l</code>	<code>\multicolumn</code> 18183, 23821
18865, 18896,	. . 11823, 11860,	<code>\multiplefootnotemarker</code>
18901, 18903,	12074, 12151,	. . . . 8110, 8126,
18910, 18911,	12176, 12325,	8220, 8221, 8249,
18914, 18929,	12393, 12450,	8250, 8278, 8279,
18933, 18936,	12475, 12617,	11896, 11898, 11899
18938, 18947,	12681, 12737,	<code>\multiply</code> . . . . . 2519,
18950, 18960,	12762, 12911,	2530, 2708, 2712,
18961, 18963,	12979, 13036,	4328, 4547, 4589,
18986, 18992, 18996	13061, 13210,	4594, 4978, 14877,
<code>\mkern</code> . . . . . 25327,	13278, 13335,	14930, 14982,
25328, 25436, 26142	13360, 13509,	15033, 15427,
<code>\mobile</code> . . . . . 5130	13577, 13634,	15428, 19988, 19992
<code>\Mobilefone</code> . . . . . 5090	13659, 13808,	
<code>\mobilesymbol</code> . . . . .	13876, 13933,	N
. 5090, 10663, 10761	13958, 14107,	<code>\n@xt</code> . . . . . 4280,
<code>\mode</code> . . . . . 18606, 18939	14175, 14232,	4282, 4284, 4285,
<code>\modernpoem</code> . . . . . 9170	14257, 14406,	4506, 4508, 4510, 4511
<code>\modernpoem@obeylines</code>	14474, 14531,	<code>\na</code> . . . . 19991, 19993,
. . . . . 8917, 9170	14556, 14705,	19995, 20004,





20006, 20031, 20032	5529, 5535, 5542,	10955,	10971,
\narrower ..... 26073	5545, 5548, 5554,	10977,	10993,
\NAT@bitem@first@sw	5566, 5572, 5584,	11000,	11671,
..... 19669	5587, 5589, 5596,	11685,	11712,
\nb 19991, 19994, 19995,	5600, 5606, 5613,	11716,	11722,
20004, 20005,	5616, 5619, 5622,	11728,	11748,
20026, 20042, 20043	5624, 5626, 5628,	11779,	11822,
\NC@find ..... 23853	5648, 5677, 5702,	11859,	11943,
\NC@rewrite@X .... 23852	5731, 5756, 5794,	11946,	12034,
\NeedsTeXFormat ...	5828, 5845, 5856,	12038,	12050,
4049, 4582, 4638,	5862, 5906, 5911,	12056,	12120,
4817, 5009, 5258,	6033, 6100, 6109,	12154,	12195,
5326, 7210, 7776,	6189, 6194, 6197,	12241,	12268,
8318, 8464, 8580,	6200, 6203, 6206,	12323,	12365,
8607, 8756, 8780,	6209, 6213, 6216,	12392,	12412,
8845, 10573, 10671	6230, 6242, 6255,	12423,	12453,
\new@command .. 5634, 5636	6270, 7052, 7053,	12493,	12537,
\new@poem@width ...	7055, 7058, 7061,	12562,	12615,
8932, 8933, 8934,	7064, 7067, 7070,	12655,	12680,
8935, 9020, 9054, 9057	7073, 7076, 7214,	12699,	12710,
\newblock . 5256, 9032,	7215, 7216, 7217,	12740,	12781,
9132, 19663, 19665	7239, 7242, 7269,	12827,	12854,
\newboolean ... 7218,	7296, 7297, 7298,	12909,	12951,
7221, 7223, 7225,	7299, 7314, 7333,	12978,	12998,
7226, 7238, 7302,	7369, 7371, 7372,	13009,	13039,
7312, 7379, 7402,	7377, 7378, 7380,	13080,	13126,
7703, 8327, 8586, 8613	7381, 7388, 7389,	13153,	13208,
\newbox ..... 8987, 8988	7390, 7398, 7401,	13250,	13277,
\newcommand 2088, 2096,	7489, 7507, 7717,	13297,	13308,
2813, 2821, 2840,	7725, 7735, 7738,	13338,	13379,
3323, 3726, 4053,	7746, 7915, 7916,	13425,	13452,
4220, 4221, 4227,	7917, 7918, 7919,	13507,	13549,
4233, 4247, 4248,	7920, 7921, 7922,	13576,	13596,
4252, 4253, 4261,	7923, 7924, 7925,	13607,	13637,
4264, 4267, 4271,	7926, 7927, 7928,	13678,	13724,
4291, 4292, 4307,	7929, 7930, 7931,	13751,	13806,
4330, 4331, 4332,	7932, 7933, 7934,	13848,	13875,
4333, 4383, 4722,	7935, 7936, 7937,	13895,	13906,
4728, 4731, 4732,	7938, 7939, 7940,	13936,	13977,
4733, 4734, 4735,	7949, 7999, 8018,	14023,	14050,
4736, 4737, 5034,	8037, 8059, 8065,	14105,	14147,
5120, 5125, 5126,	8090, 8091, 8125,	14174,	14194,
5127, 5129, 5130,	8281, 8282, 8283,	14205,	14235,
5131, 5133, 5134,	8291, 8300, 8309,	14276,	14322,
5136, 5137, 5148,	8322, 8323, 8446,	14349,	14404,
5149, 5169, 5176,	8499, 8579, 8592,	14446,	14473,
5178, 5182, 5186,	8626, 8627, 8628,	14493,	14504,
5188, 5194, 5203,	8629, 8630, 8631,	14534,	14575,
5205, 5207, 5211,	8632, 8633, 8684,	14621,	14648,
5215, 5220, 5232,	8698, 8874, 8881,	14703,	14745,
5256, 5262, 5452,	8890, 8894, 8904,	14772,	14792,
5460, 5468, 5476,	8923, 9120, 9121,	14803,	14836,
5493, 5499, 5505,	10744, 10938,	14899,	14952,
5511, 5517, 5523,	10939, 10948,	15003,	15072,



15121,	15151,	7531, 9105, 9169,	7330, 7331, 7332,
15206,	15250,	17892, 25836,	7386, 7403, 8191,
15279,	15316,	25846, 26012,	10728, 10730,
15376,	15411,	26021, 26030, 26039	10732, 10734,
15412,	15413,	\newfloat@setwithin	10736, 24415,
15414,	15892,	..... 19696,	24417, 24418, 25131
15895,	15954,	19702, 19710, 19712	\newline ..... 5201,
15958,	15960,	\newfloat@Error .. 19715	7565, 21853,
15966,	15982,	\newfloat@setwithin	21862, 22614,
16006,	16018,	..... 19682	22623, 23379, 23388
16072,	16118,	\newif ..... 4056,	\newlinechar ..... 4451
16119,	16120,	4057, 4058, 4059,	\newlinetospace ...
16173,	16175,	4060, 4061, 4062,	7562, 7582, 7583,
16305,	16308,	4250, 4251, 4254,	7584, 8821, 8822, 8823
16311,	16314,	4255, 4256, 4257,	\newlistentry 24380, 24447
16951,	18084,	4259, 4260, 4492,	\newpage ..... 503,
18095,	19504,	4493, 4494, 4495,	525, 857, 877,
19507,	19510,	4496, 4497, 5011,	1109, 1129, 1359,
21403,	21404,	5040, 5219, 5267,	1379, 8717, 8754,
22142,	22143,	6542, 8801, 8989,	8755, 9656, 9678,
22915,	22916,	10576, 10578,	10570, 11417,
25476,	25478,	10580, 10582,	11437, 11514,
25783,	25784,	10647, 10674,	11536, 15584,
25832,	25833,	10676, 10678,	15604, 18190,
25934,	26056,	10680, 10743,	19024, 20573,
26057,	26157,	12037, 15950,	20593, 20714,
26285, 26286, 26483		18340, 25474, 25475	20736, 20958,
\newcount . 4323, 4324,		\newinsert ..... 20980, 21140, 21162	\newpoem@tabcr ....
4373, 4542, 4543,		4287, 4513, 7604,	... 9133, 9142, 9143
4585, 4586, 5260,		7605, 7606, 7607,	\newsavebox ... 4768,
5270, 5274, 5646,		7608, 7609, 7610,	7347, 7382, 7383
6373, 6476, 6636,		7611, 7612, 7613,	\newskip ..... 4806, 4807, 4808,
6697, 6777, 12016,		7614, 7615, 7616,	5637, 14822, 16542
12018, 12116, 26149		7617, 7618, 7619,	\newthought ..... 8520
\newcounter 7998, 9116,		7620, 7621, 7622,	\NewTokenList ..... 6583
15787, 15952,		7623, 7624, 7625,	\newtoks ..... 4819,
24383, 24387, 24388		7626, 7627, 7628,	5340, 5341, 6374,
\newdimen ..... 7629, 7630, 7631,		7629, 7630, 7631,	6375, 6545, 6558,
8878, 8879, 8929,		7632, 7633, 7634,	6583, 6636, 8930,
11667, 12116, 16680		7635, 7636, 7637,	15959, 20084, 25788
\NewDocumentCommand		7653, 7654, 7655,	\newXeTeXintercharclass
..... 4358,		7656, 7657, 7658,	..... 4375, 4376
6815, 6869, 6884,		7659, 7660, 7661,	\next ..... 26180, 26183
6902, 6925, 6953,		7662, 7663, 7664,	\next@tdpage .. 21557,
6959, 6962, 6977,		7665, 7666, 7667,	21566, 21637,
6991, 7007, 7019,		7668, 7669, 7670,	21674, 21683,
7031, 7041, 7106,		7671, 7672, 7673,	21687, 21697,
7120, 7125, 7134,		7674, 7675, 7676,	21701, 21712,
7154, 7172, 7186,		7677, 7678, 12100,	21716, 22297,
7191, 7196, 7201, 7206		12105, 12111, 12113	22306, 22377,
\newenvironment ... 5138, 5139, 5140,		\newlength ..... 5142, 5143, 5144,	22414, 22423,
4769, 4780, 4789,		5146, 5147, 5230,	22427, 22437,
4798, 5233, 7348,			
7363, 7366, 7404,			



22441,	22452,	15497,	15505,	6093, 6094, 6096,
22456,	23070,	17947,	17949,	6102, 6103, 6105,
23079,	23150,	17994,	18297,	6111, 6112, 6114,
23187,	23196,	18397,	19403,	6176, 6178, 6179,
23200,	23210,	19414,	19415,	6393, 6539, 6544,
23214,	23225, 23229	19426,	19427,	6550, 6598, 6626,
<code>\next@tpage</code>	.. 21556,	20250,	20252,	6629, 6632, 6633,
21563,	21609,	20405,	20406,	6717, 6724, 6727,
21685,	21699,	20420,	20444,	6728, 6745, 6749,
21714,	22296,	20777,	20778,	6751, 6752, 6753,
22303,	22349,	20792,	20816,	6761, 6762, 6763,
22425,	22439,	21007,	21023,	6766, 6767, 6768,
22454,	23069,	21192,	21208,	6803, 7967, 7969,
23076,	23122,	21237,	21241,	7977, 8370, 8373,
23198,	23212, 23227	21249,	21774,	8379, 8382, 9064,
<code>\NineColumnFootnotes</code>		24008,	24025,	9067, 9070, 9122,
.....	14235	24032,	24178,	10528, 10880,
<code>\ninecolumnfootnotes</code>		24181,	24209,	10932, 12024,
.....	14210	24210,	24232,	12025, 15789,
<code>\no</code>	..... 3410, 3435, 3455	24233,	24249,	15790, 15796,
<code>\no@bib@break</code>	.....	24250,	24266,	15797, 15849,
.	21799, 22560, 23325	24267,	24283,	16693, 16703,
<code>\noalign</code>	.. 1415, 9043,	24284,	24300,	17411, 17421,
12123,	18190,	24301,	24317,	17429, 17430,
18191,	18192,	24318,	24335,	17431, 17433,
21997,	22023,	24336,	24354,	17459, 17467,
22025,	22759,	24355,	24374,	17468, 17469,
22785,	22787,	24375,	24409,	17471, 17500,
23524,	23550, 23552	24410,	24445,	17501, 17502,
<code>\nobibliography</code>	... 7995	24607,	24608,	17504, 17531,
<code>\nobidilogo</code>	..... 4553	24717,	24719,	17532, 17533,
<code>\nobreak</code>	..... 14, 16,	24810,	24842,	17535, 17562,
219, 221, 555, 573,		24847,	24850,	17563, 17564,
600, 604, 695, 696,		25319,	25324,	17566, 18219,
710, 736, 923, 924,		25332,	25433,	18264, 18267,
938, 954, 1178,		25434,	25438,	18863, 19128,
1179, 1193, 1220,		26139, 26140, 26144		21516, 21517,
2256, 2263, 2580,		<code>\nobreakspace</code>	..... 599	21518, 21519,
2582, 2584, 3714,		<code>\node</code>	. 3451, 3453, 3458,	21520, 21521,
7087, 8118, 8458,		3459, 3461, 3462,		21796, 21797,
8459, 8943, 8945,		25519, 25549, 25555		22256, 22257,
8951, 9229, 9230,		<code>\noexpand</code>	. 412, 4841,	22258, 22259,
9244, 9268, 9406,		4842, 4856, 4857,		22260, 22261,
9407, 9421, 9445,		4884, 4887, 4890,		22557, 22558,
9559, 9567, 9579,		5295, 5336, 5345,		23029, 23030,
9708, 9724, 9754,		5349, 5369, 5373,		23031, 23032,
9759, 9767, 9985,		5489, 5591, 5592,		23033, 23034,
11298,	11311,	5594, 5652, 5680,		23322, 23323,
11326,	11330,	5706, 5734, 5760,		23717, 23789,
11338,	11565,	5763, 5797, 5800,		23826, 23827,
11588,	11593,	6038, 6039, 6040,		23900, 23907,
11602,	11646,	6042, 6043, 6060,		24390, 24922,
11647,	15468,	6062, 6080, 6081,		24955, 24962,
15484,	15493,	6082, 6085, 6092,		24967, 24968,



25054,	25458,	3339, 3355, 3389,	11142,	11323,
25459,	25460,	3394, 3528, 3590,	11336,	11406,
25461,	25462,	3595, 3738, 3755,	11409,	11503,
25463,	25464,	3833, 3840, 3856,	11506,	11584,
25465,	25466,	3929, 3935, 3950,	11600,	11907,
25708,	25723,	10797, 10818,	11911,	11913,
25751,	25757,	16363, 18380,	11919,	11923,
25770, 26103, 26487		19450, 26458, 26466	11925,	11931,
<code>\noindent</code> .. 493, 671,		<code>\nopagebreak</code> .....	11935,	11937,
680, 978, 1230,		.. 8997, 9007, 18192	15490,	15503,
1239, 2862, 2869,		<code>\nopagenumbers</code> .... 5220	15573,	15576,
2876, 3279, 3285,		<code>\normalbaselines</code> . 25916	16322,	16326,
3291, 4619, 7357,		<code>\normalbaselineskip</code>	16328,	16334,
7550, 8141, 8159,		321, 7255, 14876,	16338,	16340,
8177, 8294, 8303,		14890, 14929,	16346,	16350,
8312, 8522, 8542,		14943, 14981,	16352,	17894,
8703, 8705, 8707,		14995, 15032,	17929,	17934,
8898, 9278, 9466,		15046, 18361, 20324	17980,	18373,
9646, 9842, 11407,		<code>\normalcolor</code> ... 2222,	19014,	19428,
11504, 11649,		4986, 9946, 10159,	19783,	19796,
11714, 15069,		10224, 10456,	20563,	20565,
15100, 15118,		10475, 11259,	20704,	20706,
15134, 15148,		12085, 15370,	20900,	20907,
15164, 15203,		15383, 16252,	20943,	20950,
15233, 15247,		16372, 16577,	21129,	21132,
15262, 15276,		16624, 16725,	21234,	21247,
15291, 15304,		16735, 16742,	22077,	22840,
15315, 15329,		17980, 18399,	23605,	24435,
15338, 15574,		19428, 22077,	24440,	24441,
16771, 19088,		22840, 23605,	24849,	25194,
20381, 20390,		25194, 25217,	25217,	25223,
20831, 20840,		25223, 25439,	25439, 26145, 26586	
20906, 20949,		25685, 26145,	<code>\normalfootnotes</code> ..	
21130, 21440,		26218, 26267,	..... 11878, 11889	
21479, 21557,		26297, 26313,	<code>\normallineskip</code> ...	
21560, 21564,		26324, 26332,	. 5078, 18360, 20323	
21774, 21959,		26539, 26555, 26586	<code>\normalparindent</code> 42,	
21970, 22179,		<code>\normalfont</code> .... 25,	56, 72, 255, 269, 284	
22219, 22297,		38, 52, 68, 85, 251,	<code>\NormalRTLParaLTRFootnotes</code>	
22300, 22304,		265, 280, 298, 492,	..... 15003	
22720, 22731,		495, 597, 847, 849,	<code>\normalRTLparaLTRfootnotes</code>	
22952, 22992,		1101, 1349, 1351,	..... 14952	
23070, 23073,		3137, 3149, 3161,	<code>\normalsfcodes</code> ....	
23077, 23485,		4618, 4621, 4731,	..... 15862, 26526	
23496, 25497,		4736, 4737, 4739,	<code>\normalsize</code> 317, 1575,	
25500, 25502,		4740, 4741, 4742,	1585, 1613, 1655,	
25504, 25507,		4743, 4744, 4745,	1764, 1778, 1800,	
25511, 25513,		7296, 7915, 7916,	2489, 2837, 7248,	
25569, 25631, 26072		7917, 8005, 8024,	7249, 7256, 7823,	
<code>\nointerlineskip</code> ..		8043, 8109, 8344,	7867, 7911, 8005,	
.... 1944, 1957,		8351, 8358, 8550,	8024, 8043, 8421,	
2473, 2561, 2574,		9555, 9575, 9645,	10631, 10723,	
2581, 2911, 2926,		9648, 9750, 9765,	15860, 19146,	
2941, 3264, 3334,		11131, 11136,	20989, 21487,	



21494,	22227,	5734, 5748, 5750,	1162, 5087, 9213,
22234,	23000,	5760, 5763, 5780,	9390, 9600, 20371,
23007,	24849,	5782, 5786, 5788,	20626, 21085, 24141
26380,	26424, 26524	5797, 5800, 5814,	\only . . . . . 2479, 2507
\NOT . . . . .	7450, 7451, 7490,	5816, 5820, 5822,	\opening . . . . . 11634, 17982
7510, 7514, 8197,	8226, 8255, 8337, 8341	5829, 5831, 5832,	\OptArg . . . . . 4748, 4814
\not@eq@if . . . . .	5433, 5435	5834, 5835, 5838,	\OptArg@i . . . . . 4814, 4815
\noteqnewif . . . . .	5429	5839, 5846, 5848,	\OptArg@ii . . . . . 4814, 4816
\null 458, 472, 526, 669,	672, 788, 817, 878,	5849, 6054, 6668,	\OptArgs . . . . . 4813
976, 979, 1040,	1069, 1130, 1228,	6783, 6789, 6795,	\optparams . . . . .
1231, 1290, 1319,	1380, 8458, 9032,	6798, 6804, 6808,	7424, 8281, 8282,
9276, 9279, 9332,	9361, 9464, 9467,	9015, 9109, 10350,	8283, 8285, 8286, 8287
9509, 9538, 9611,	9625, 9679, 11374,	10352, 10361,	\OR . . . . . 7418,
11388, 11438,	11469, 11483,	10365, 10429,	7490, 7510, 7514, 7766
11537, 15541,	15555, 15605,	10450, 10804,	\or . . . . . 1451,
17861, 17878,	17861, 17878,	10825, 10870,	1452, 1453, 1455,
19404, 19414,	19404, 19414,	10876, 10879,	1456, 1476, 1477,
19415, 19426,	19415, 19426,	10922, 10928,	1478, 1482, 1483,
19427, 20379,	20382, 20504,	10931, 11182,	1484, 1485, 1486,
20382, 20504,	20533, 20594,	11185, 12024,	1490, 1491, 1519,
20533, 20594,	20643, 20672,	12025, 12039,	1520, 1521, 1523,
20643, 20672,	20737, 20829,	12043, 17941, 19521	1524, 9917, 9918,
20737, 20829,	20832, 20908,	\numberline . . . . .	9919, 9921, 9922,
20832, 20908,	20922, 20981,	. . . . . 7543, 18140,	17255, 17259,
21095, 21109,	21095, 21109,	18145, 19140,	24422, 24425,
21163, 21574,	21599, 21637,	24106, 25229,	24428, 25372,
21599, 21637,	22314, 22339,	25447, 25450, 25453	25483, 25490,
22314, 22339,	22377, 23087,	\numberline@box . . . . .	25712, 25761,
22377, 23087,	23112, 23150,	. . . . . 24813, 24814	26172, 26173, 26175
23112, 23150,	23742, 23748,	\numberline@tempa 25449	\orig@footnotetext
23742, 23748,	23770, 24178,	\numberwithin . . . . . 339	. . . . . 152, 19535, 19552
23770, 24178,	24209, 24232,	\numexpr . . . . . 5857,	\orig@LTRfootnotetext
24209, 24232,	24249, 24266,	. . . . . 24580, 24692, 24922	. . . . . 156, 19540, 19556
24249, 24266,	24283, 24300,	\nxLcs . . . . . 4747, 4748, 4749	\orig@RTLfootnotetext
24283, 24300,	24317, 24335,	<b>O</b>	. . . . . 160, 19545, 19560
24317, 24335,	24354, 24374,	\obeylines . . . . . 9033, 9134	\origin@RaggedLeft
24354, 24374,	24409, 24810,	\ocgbase . . . . . 18919, 18921	. . . . . 20352, 20354, 20355
24409, 24810,	25319, 25433, 26139	\oddpaper . . . . .	\origin@RaggedRight
\number . . . . . 8, 139,	213, 4541, 5294,	4586, 4590, 4591,	. . . . . 20353, 20354, 20355
213, 4541, 5294,	5295, 5301, 5306,	4592, 4595, 4596, 4597	\originalHbadness . . . . .
5295, 5301, 5306,	5652, 5669, 5671,	\oddsidemargin . . . . .	. . . . . 25545, 25563
5652, 5669, 5671,	5680, 5694, 5696,	. . . . . 4608, 5049,	\othermargin . . . . . 920
5680, 5694, 5696,	5706, 5723, 5725,	11102, 11106,	\outer . . . . . 4579
5706, 5723, 5725,	5734, 5748, 5750,	11112, 16927,	\outer@nobreak . . . . .
5734, 5748, 5750,	5760, 5763, 5780,	16936, 16940,	5004, 7817, 7861,
5760, 5763, 5780,	5782, 5786, 5788,	21525, 22265,	7905, 26374, 26418
5782, 5786, 5788,	5797, 5800, 5814,	23038, 26508, 26512	\outputpenalty 10493,
5797, 5800, 5814,	5816, 5820, 5822,	\offinterlineskip . . . . .	10496, 10505,
5816, 5820, 5822,	5829, 5831, 5832,	. . . . . 2182, 2193	10508, 10518,
5829, 5831, 5832,	5834, 5835, 5838,	\on@stripcols@break . . . . .	10521, 18272, 18273
5834, 5835, 5838,	5839, 5846, 5848,	. . . . . 10287	\overfullrule . . . . .
5839, 5846, 5848,	5849, 6054, 6668,	\onecolumn . . . . .	. . . . . 5038, 5039, 20213
5849, 6054, 6668,	6783, 6789, 6795,	. . . . . 645, 661, 910,	\OVP@calc . . . . . 19778
6783, 6789, 6795,	6798, 6804, 6808,		
6798, 6804, 6808,	9015, 9109, 10350,		
9015, 9109, 10350,	10352, 10361,		
10352, 10361,	10365, 10429,		
10365, 10429,	10450, 10804,		
10450, 10804,	10825, 10870,		
10825, 10870,	10876, 10879,		
10876, 10879,	10922, 10928,		
10922, 10928,	10931, 11182,		
10931, 11182,	11185, 12024,		
11185, 12024,	12025, 12039,		
12025, 12039,	12043, 17941, 19521		
12043, 17941, 19521			



P	
\p@	27, 29, 30, 31, 99, 103, 229, 233, 241, 243, 244, 245, 321, 459, 548, 565, 577, 579, 581, 583, 638, 643, 654, 658, 687, 703, 721, 728, 764, 770, 789, 903, 907, 914, 930, 947, 965, 1000, 1002, 1005, 1007, 1041, 1155, 1159, 1170, 1186, 1204, 1212, 1244, 1250, 1291, 4288, 4514, 5077, 5078, 5082, 5083, 7250, 7251, 7252, 7259, 7260, 7261, 7263, 7264, 8469, 8470, 8471, 8473, 8474, 8540, 9206, 9210, 9221, 9237, 9253, 9260, 9299, 9305, 9333, 9383, 9387, 9398, 9414, 9430, 9437, 9452, 9458, 9510, 9554, 9560, 9565, 9569, 9571, 9574, 9577, 9581, 9583, 9593, 9598, 9612, 9701, 9716, 9729, 9731, 9733, 9735, 9749, 9755, 9760, 9763, 9768, 10002, 10012, 10025, 10035, 10048, 10058, 10071, 10081, 10378, 10385, 10544, 10564, 10782, 10783, 11290, 11304, 11360, 11362, 11364, 11366, 11375, 11470, 11559, 11583, 11589, 11594, 11598, 11603, 11659, 11661, 11663, 11665, 11710, 11711, 15461, 15476, 15489, 15494,
	15498, 15506, 15511, 15515, 15643, 16040, 16042, 16044, 16798, 16844, 16896, 17913, 17924, 17926, 17996, 18000, 19066, 19408, 19514, 19562, 19565, 20364, 20397, 20429, 20451, 20619, 20623, 20769, 20801, 20874, 20909, 21015, 21033, 21037, 21083, 21185, 21213, 21217, 21233, 21242, 21250, 21492, 21499, 22068, 22232, 22239, 22831, 23005, 23012, 23596, 24416, 24587, 24696, 24703,
	15501, 15509, 15513, 15542, 16038, 16041, 16043, 16076, 16805, 16851, 17909, 17922, 17925, 17978, 17998, 18002, 19396, 19420, 19515, 19564, 19566, 20368, 20413, 20436, 20457, 20619, 20644, 20785, 20808, 20880, 21001, 21031, 21035, 21078, 21096, 21200, 21215, 21219, 21238, 21245, 21488, 21495, 22050, 22228, 22235, 22812, 23001, 23008, 23577, 24139, 24584, 24591, 24699, 25115,
	25118, 25122, 25128, 25243, 25427, 26133, 26596
\p@enumiv	86, 299, 621, 756, 1019, 1269, 2667, 5248, 9291, 9479, 9788, 11352, 11623, 15527, 17895, 20472, 20866, 21060, 21263, 21803, 22564, 23329, 24076
\p@subfigure	23800
\p@subtable	23801
\PackageError	144, 5406, 5455, 5458, 5463, 5466, 5471, 5474, 5479, 5482, 5639, 7215, 8323, 18075, 18082, 19526, 24036, 24394, 26159
\PackageInfo	5642, 7217, 20335, 25469
\PackageWarning	138, 5640, 6250, 6367, 9111, 10585, 10683, 15791, 16497, 18010, 19460, 19520, 19676, 24385, 24736, 24827
\PackageWarningNoLine	5281, 5641, 5670, 5695, 5724, 5749, 5781, 5787, 5815, 5821, 12061
\page@sofar	164, 19432
\pagebreak	18191, 25615, 25624
\pagecontents	20148
\pagedepth	25609
\pagefillstretch	25621
\pagefilstretch	25620
\pagefootnoterule	16074, 16082
\pagegoal	16391, 16393, 16398, 16405, 16446, 16448, 18278, 19366, 25612
\pageinwindow	10104
\pagenumbering	5085, 8805
\pageref	5224, 5226



<code>\pageshrink</code>	.. 10340, 10343, 10369, 10393, 16407, 16411, 16427, 16453, 16465, 25615	107, 108, 109, 110, 210, 220, 237, 238, 239, 259, 273, 288, 320, 323, 427, 461, 467, 469, 470, 489, 532, 538, 542, 554, 573, 600, 603, 672, 682, 696, 709, 736, 797, 807, 814, 815, 843, 882, 888, 892, 924, 938, 953, 979, 993, 1049, 1059, 1066, 1067, 1095, 1134, 1140, 1144, 1179, 1192, 1220, 1231, 1241, 1299, 1309, 1316, 1317, 1345, 1385, 1391, 1396, 1401, 1404, 1572, 1576, 1579, 1582, 1587, 1607, 1610, 1615, 1647, 1652, 1659, 1757, 1761, 1767, 1788, 1796, 1803, 1814, 1823, 1832, 1851, 2268, 2473, 2580, 2834, 2838, 2864, 2871, 2878, 2893, 2904, 2908, 2919, 2923, 2934, 2938, 3109, 3116, 3122, 3128, 3135, 3147, 3159, 3181, 3188, 3202, 3209, 3228, 3281, 3287, 3293, 3604, 3606, 3654, 3675, 3683, 3751, 3753, 3849, 3851, 3944, 3946, 4579, 4615, 5002, 7444, 7452, 7511, 7512, 7515, 7516, 7541, 7550, 7551, 7720, 7736, 8460, 8575, 8576, 8577, 8578, 8703, 8705, 8707, 8725, 8726, 8727, 8901, 9008, 9022, 9033, 9051, 9126, 9134, 9159, 9230, 9243, 9268, 9279, 9341, 9351, 9358, 9359, 9407, 9420,	9445, 9467, 9518, 9528, 9535, 9536, 9559, 9567, 9579, 9614, 9620, 9622, 9623, 9642, 9685, 9691, 9695, 9707, 9724, 9754, 9759, 9767, 9844, 9985, 10790, 10811, 11298, 11310, 11326, 11329, 11337, 11377, 11383, 11385, 11386, 11403, 11442, 11448, 11452, 11472, 11478, 11480, 11481, 11500, 11543, 11549, 11553, 11564, 11588, 11593, 11602, 11636, 11641, 11644, 11646, 11647, 11657, 12079, 12292, 12295, 12298, 12585, 12588, 12591, 12878, 12881, 12884, 13177, 13180, 13183, 13476, 13479, 13482, 13775, 13778, 13781, 14074, 14077, 14080, 14373, 14376, 14379, 14672, 14675, 14678, 15304, 15315, 15329, 15338, 15467, 15484, 15493, 15497, 15505, 15544, 15550, 15552, 15553, 15570, 15609, 15615, 15619, 15785, 16248, 17917, 17918, 17919, 17938, 17948, 17956, 17984, 17989, 17992, 17994, 18116, 18224,
<code>\pagestretch</code>	..... .. 10394, 16406, 16427, 16465, 25619		
<code>\pagestyle</code>	2189, 4584, 5076, 5084, 5227, 7570, 8806, 10669		
<code>\pagetotal</code>	... 16393, 16398, 16404, 19023, 19364, 19367, 19378, 25607, 25612, 25670		
<code>\paperheight</code>	... 3027, 3032, 3039, 3332, 3333, 3338, 3356, 3390, 3391, 3721, 5013, 5016, 5019, 5022, 5025, 5028, 5031, 5032, 11065, 21530, 22270, 23043		
<code>\paperwidth</code>	... 2061, 2199, 2521, 2538, 2552, 3083, 3423, 3425, 3427, 3428, 3441, 3448, 3449, 3453, 3461, 3462, 3479, 3482, 3485, 3506, 3508, 3513, 3515, 3530, 3532, 3534, 3536, 3557, 3593, 3620, 3703, 3705, 3710, 3712, 3723, 3747, 3760, 3763, 3769, 3774, 3796, 3804, 3816, 3836, 3842, 3844, 3858, 3862, 3884, 3888, 3896, 3899, 3905, 3908, 3915, 3918, 3932, 3937, 3939, 3952, 3956, 3975, 3978, 3981, 3987, 3990, 4006, 4009, 4024, 5014, 5017, 5020, 5023, 5026, 5029, 5032, 5033, 11065, 11072, 11082, 21528, 22268, 23041		
<code>\par</code>	... 5, 15, 46, 60, 76,		



18353,	18376,	22320,	22322,	19594,	19595,
18380,	19010,	22329,	22333,	19597,	19599,
19082,	19088,	22335,	22337,	19601,	19602,
19094,	19098,	22352,	22356,	19604,	19606,
19104,	19119,	22378,	22386,	19607,	19608,
19138,	19147,	22654,	22711,	19609,	19610,
19404,	19416,	22719,	22722,	19611,	19613,
19429,	19589,	22730,	22732,	19614,	19615,
19601,	19663,	22743,	22750,	19616,	19617,
19955,	20126,	22991,	23084,	19618,	19619,
20127,	20128,	23085,	23090,	19620,	19621,
20129,	20242,	23093,	23095,	19622,	19624,
20243,	20250,	23102,	23106,	19625,	19626,
20251,	20311,	23108,	23110,	19627,	19629,
20382,	20392,	23125,	23129,	19630,	19631,
20406,	20419,	23151,	23159,	19632,	19634,
20444,	20513,	23419,	23476,	19635,	19636,
20523,	20530,	23484,	23487,	19637,	19638,
20531,	20559,	23495,	23497,	19639,	19641,
20598,	20604,	23508,	23515,	19642,	19643,
20608,	20652,	23831,	24446,	19644,	19645,
20662,	20669,	24452,	24609,	19646,	19648,
20670,	20700,	24718,	24842,	19649,	19650,
20744,	20750,	25338,	25440,	19651,	19652,
20755,	20760,	25497,	25498,	22005,	22767, 23532
20763,	20778,	25504,	25505,	\parfillskip . . . . 13,	
20791,	20816,	25507,	25515,	218, 552, 569, 691,	
20832,	20842,	25568,	25834,	707, 732, 918,	
20906,	20911,	25835,	25844,	934, 951, 1174,	
20917,	20919,	25845,	26013,	1190, 1216, 8451,	
20920,	20939,	26022,	26031,	9027, 9225, 9241,	
20949,	20987,	26040,	26107,	9264, 9402, 9418,	
20992,	20995,	26146, 26575, 26596		9441, 9705, 9720,	
21006,	21023,	\par@updaterelative		9872, 9991, 11294,	
21098,	21104,	. 21568, 22308, 23081		11308, 11562,	
21106,	21107,	\paragraph . . . . . 8356		15171, 15175,	
21126,	21169,	\ParagraphFootnotes		15179, 15465,	
21175,	21179,	. . . . . 14899		15480, 17946,	
21191,	21208,	\paragraphfootnotes		18360, 19397,	
21237,	21241,	. . . . . 14846		19409, 19421,	
21249,	21478,	\parbox . . . . . 5173,		20265, 20278,	
21571,	21572,	5175, 10657,		20291, 20302,	
21577,	21580,	11652, 17056,		20401, 20417,	
21582,	21589,	17058, 17062,		20440, 20773,	
21593,	21595,	17064, 17095,		20789, 20812,	
21597,	21612,	17096, 17099,		21004, 21019,	
21616,	21638,	17100, 17157,		21189, 21204,	
21646,	21774,	17158, 17161,		23987, 24016,	
21893,	21950,	17162, 17186,		24046, 24170,	
21958,	21961,	17188, 17192,		24201, 24224,	
21969,	21971,	17194, 18228,		24241, 24258,	
21982,	21989,	19076, 19105,		24275, 24292,	
22218,	22311,	19587, 19589,		24309, 24327,	
22312,	22317,	19590, 19592,		24346, 24366,	





24401,	24596,	20788,	20811,	9128, 9163, 9210,	
24708,	24776,	20906,	20949,	9387, 9598, 10494,	
24778,	24842,	20986,	21003,	10506, 10519,	
25312,	25314,	21018,	21082,	11640, 11643,	
25428, 26051, 26134		21130,	21188,	11645, 11647,	
<code>\parindent</code> . . . . .	12,	21203,	21234,	17913, 17988,	
42, 56, 72, 103,		21246,	21440,	17991, 17993,	
217, 233, 255, 269,		21479,	22179,	18356, 18365,	
284, 493, 551, 568,		22219,	22952,	19961, 20314,	
595, 642, 657, 693,		22992,	23997,	20368, 20623,	
706, 731, 783, 800,		24034,	24138,	20986, 21083,	
906, 921, 933, 950,		24171,	24202,	24139, 25248,	
987, 1035, 1052,		24225,	24242,	25606, 25610, 25950	
1098, 1158, 1176,		24259,	24276,	<code>\part</code> . . . . .	23, 17932
1189, 1215, 1285,		24293,	24310,	<code>\partname</code> . . . . .	599, 11325
1302, 2862, 2869,		24328,	24347,	<code>\partopsep</code> . . . . .	
2876, 3279, 3285,		24367,	24402,	2664, 8516, 19061,	
3291, 4619, 5080,		24595,	24707,	19063, 19740, 19760	
7272, 7943, 8452,		24781,	24783,	<code>\PassOptionsToClass</code>	
8494, 8502, 8567,		25248,	25309,	8758, 8759, 8760,	
8720, 9026, 9129,		25310,	25429,	8761, 8762, 8782,	
9209, 9227, 9240,		25840,	25850,	8783, 8784, 8785, 8786	
9263, 9327, 9344,		25951,	26051,	<code>\PassOptionsToPackage</code>	
9386, 9404, 9417,		26074, 26075, 26135		. . . . .	7775, 8605
9440, 9504, 9521,		<code>\parsep</code> . . .	990, 7264,	<code>\pbs</code> . . . . .	19804, 19822
9555, 9575, 9597,		7265, 8474, 8475,		<code>\pdfencryptsetup</code> . .	
9646, 9704, 9719,		8513, 8540, 25950		. . .	4358, 4360, 4363
9750, 9764, 9868,		<code>\parshape</code> 9841, 16519,		<code>\pdflastxpos</code> . . .	5652,
9899, 9990, 11293,		16527, 19746,		5680, 5760, 5797	
11307, 11321,		19766, 19961,		<code>\pdflastypos</code> . . .	5706,
11334, 11407,		20126, 20128,		5734, 5763, 5800	
11504, 11561,		20905, 20948,		<code>\pdfm@box</code> . . . . .	17862,
11584, 11599,		21459, 21461,		17870, 17879, 17887	
11713, 12097,		21472, 21474,		<code>\pdfsavepos</code> 5662, 5664,	
12287, 12580,		22198, 22200,		5687, 5689, 5716,	
12873, 13172,		22212, 22214,		5718, 5741, 5743,	
13471, 13770,		22971, 22973,		5773, 5775, 5807, 5809	
14069, 14368,		22985, 22987,		<code>\pdfstringdefDisableCommands</code>	
14667, 15170,		25834, 25844,		. . . . .	17786
15174, 15178,		25980, 26015,		<code>\penalty</code> . .	792, 1044,
15343, 15464,		26017, 26018,		1294, 8947, 9269,	
15479, 15490,		26019, 26024,		9336, 9446, 9513,	
15502, 15574,		26026, 26027,		9725, 9829, 9835,	
16770, 17913,		26028, 26033,		10490, 10502,	
17945, 18356,		26035, 26036,		10515, 14821,	
19398, 19410,		26037, 26042,		15172, 15176,	
19422, 19656,		26044, 26045, 26046		15180, 15485,	
20266, 20279,		<code>\parskip</code> 103, 233, 643,		16428, 20445,	
20292, 20303,		658, 907, 1159,		20508, 20647,	
20367, 20403,		2193, 2908, 2923,		20817, 21024,	
20416, 20439,		2938, 3229, 3274,		21209, 24610,	
20499, 20516,		4612, 5081, 7273,		25236, 25344, 25611	
20622, 20638,		7944, 8495, 8503,		<code>\pgf@baseline</code> . . . . .	19910
20655, 20775,		8566, 8721, 9025,		<code>\pgf@insertlayers</code>	19932



<code>\pgf@nodecallback</code>	19888	<code>\pgfpathrectangle</code>	. . . . . 1952, 2554, 2567, 3763, 3769, 3804, 3862, 3888, 3956	<code>\pgfuseobject</code>	. . . . . 2755, 2759, 2778, 2782, 2798, 2802
<code>\pgf@oldpicture</code>	. . . 19895	<code>\pgfpic</code>	. . . . . 19941	<code>\pgfusepath</code>	. . . 1603, 1940, 1953, 2555, 2568, 3765, 3770, 3806, 3864, 3890, 3958
<code>\pgf@picmaxx</code>	. . . 19889, 19901, 19903, 19921	<code>\pgfpicture</code>	. . . . . 19882	<code>\pgfusepathqfill</code>	. . . . . 2749, 2772, 2792, 2984
<code>\pgf@picmaxy</code>	19891, 19905	<code>\pgfpictureeid</code>	19887, 19898	<code>\pgfusepathqstroke</code>	3000
<code>\pgf@picminx</code>	. . . . . . 19890, 19904, 19914	<code>\pgfpicturetrue</code>	. . . . . 1960, 19885	<code>\pgfuseshading</code>	. 1954, 3728, 3730, 3794, 3837, 3882, 3933, 4040
<code>\pgf@picminy</code>	19892, 19906	<code>\pgfpoint</code>	. . . . . 1602, 1931, 1933, 1934, 1935, 1938, 1939, 1952, 1954, 2554, 2560, 2567, 2573, 2744, 2764, 2787, 2974, 2976, 2977, 2978, 2980, 2981, 2982, 2990, 2992, 2993, 2994, 2996, 2997, 2998, 3343, 3350, 3763, 3769, 3804, 3862, 3888, 3956	<code>\pgfutil@gobble</code>	. . 19888
<code>\pgf@picture</code>	. . . . . 19895	<code>\pgfpointorigin</code>	. . . 3769	<code>\pgfutil@ifnextchar</code>	. . . . . 19895
<code>\pgf@picture@serial@count</code>	. . . . . 19886, 19887	<code>\pgfsetcolor</code>	. . . . . 1960	<code>\phantom</code>	. . . 18609, 19455
<code>\pgf@process</code>	. . . . . . 19910, 19913, 19920	<code>\pgfsetfading</code>	. . 3764, 3805, 3863, 3889, 3957	<code>\phantomsection</code>	. . . 5171
<code>\pgf@relevantforpicturesizefalse</code>	. . . . . 19909	<code>\pgfsetfillcolor</code>	. . . . . 3762, 3800, 3802, 3861, 3887, 3955	<code>\phone</code>	. . . . . 5131
<code>\pgf@relevantforpicturesizetrue</code>	. . . . . 19893	<code>\pgfsetfillopacity</code>	2491	<code>\phonesymbol</code>	. . . . . . 5091, 10664, 10762
<code>\pgf@remember@layerlist@globally</code>	. . . . . 19927	<code>\pgfsetlinewidth</code>	. . 2970	<code>\photo</code>	. . . . . 5136
<code>\pgf@resetpathsizes</code>	. . . . . 19894	<code>\pgfsys@discardpath</code>	. . . . . 19934	<code>\picbox</code>	. . . . . 20066
<code>\pgf@restore@layerlist@from@global</code>	. . . . . 19931	<code>\pgfsys@endpicture</code>	19937	<code>\picinwindow</code>	. . . . . 10124
<code>\pgf@shift@baseline</code>	. . . . . 19911	<code>\pgfsys@endscope</code>	. 19936	<code>\picwd</code>	. . . . . 19954, 19957, 20065, 20067
<code>\pgf@trimleft</code>	. . . . 19913	<code>\pgfsys@markposition</code>	. . . . . 19898	<code>\placeat</code>	. . 348, 349, 351
<code>\pgf@trimleft@final</code>	. 19915, 19916, 19918	<code>\pgfsys@shadingoutside</code>	19946	<code>\plainauthor</code>	. . . . . . . . . . 7582, 8625, 8627, 8666, 8667, 8670
<code>\pgf@trimright</code>	. . . 19920	<code>\pgfsys@typesetpicturebox</code>	. . . . . 19941	<code>\plainfootnotes</code>	. . 11889
<code>\pgf@trimright@final</code>	. 19922, 19923, 19925	<code>\pgftext</code>	. . . . . 1604, 1780, 1781, 1954, 2492, 2493, 2553, 2561, 2566, 2574, 3344, 3351, 3771	<code>\plainpublisher</code>	. . . . . . . . 8628, 8693, 8694
<code>\pgf@x</code>	. . . . . 19914, 19918, 19921, 19925	<code>\pgftransformrotate</code>	. . . . . 3342, 3349	<code>\plaintitle</code>	7583, 7584, 8625, 8626, 8649, 8650, 8653, 8821, 8823
<code>\pgf@y</code>	. . . . . 19911	<code>\pgftransformscale</code>	. . . . . 2557, 2570	<code>\plitemsep</code>	. . . . . 8514
<code>\pgfdeclarehorizontalshading</code>	. . . . . 3721	<code>\pgftransformshift</code>	. . . . . 1954, 2560, 2573, 3343, 3350	<code>\plpartopsep</code>	. . . . . 8516
<code>\pgfdefobject</code>	. . . . . . . . 2744, 2764, 2787			<code>\pLRE</code>	4281, 4282, 4507, 4508
<code>\pgfmathsetmacro</code>	. . 3422			<code>\PLS@Rotate</code>	. . . . . . 19826, 19828, 19830
<code>\pgfpathcircle</code>	. . . . 1602			<code>\pltopsep</code>	. . . . . 8515
<code>\pgfpathclose</code>	. 2983, 2999			<code>\poem@finish</code>	. . . . . . . . 9058, 9108, 9115
<code>\pgfpathcurveto</code>	1932, 2975, 2979, 2991, 2995			<code>\poem@line</code>	8985, 8991, 9042
<code>\pgfpathlineto</code>	. 1931, 1938, 1939, 2974, 2990			<code>\poem@linebegin</code>	. . . . . . . . . . 8942, 9000
<code>\pgfpathqcurveto</code>	. . . . . 1930, 2972, 2973, 2988, 2989			<code>\poem@lineend</code>	. 8943, 9006
<code>\pgfpathqlineto</code>	2747, 2748, 2767, 2768, 2770, 2771, 2790, 2791			<code>\poem@lineparsebegin</code>	. . . 8954, 9011, 9038
<code>\pgfpathmoveto</code>	. . . . . 1929, 2746, 2766, 2769, 2789, 2971, 2987			<code>\poem@lineparseend</code>	. . . 8980, 8992, 9049



<code>\poem@lineversesep</code>	<code>\prevdepth</code> 7444, 7452,	12277,	12317,
..... 8944, 9003	10411, 10860,	12346,	12359,
<code>\poem@needrun</code> .. 8936,	10914, 19066, 19457	12373,	12386,
9055, 9110, 9112	<code>\prg</code> .....	12400,	12488,
<code>\poem@obeylines</code> 9037,	6839, 6840, 6843,	12517,	12532,
9106, 9146, 9170	6848, 6849, 6852,	12546,	12557,
<code>\poem@prop</code> ... 9018, 9120	6856, 6861, 6862, 6865	12571,	12610,
<code>\poem@startedfalse</code>	<code>\pRLE</code> 4283, 4284, 4509, 4510	12638,	12650,
... 9035, 9144, 9150	<code>\process@cols</code> . 19433,	12663,	12675,
<code>\poem@startedtrue</code> .	19466, 19480, 19486	12688,	12775,
..... 8993,	<code>\ProcessKeyOptions</code> 4187	12805,	12821,
8994, 9034, 9136,	<code>\ProcessOptions</code> ...	12836,	12848,
9138, 9143, 9151, 9153	5043, 7240, 8331,	12863,	12903,
<code>\poem@verse</code> .....	8590, 8622, 8763,	12932,	12945,
... 8931, 9001, 9004	8787, 10587, 10685	12959,	12972,
<code>\poem@width</code> .....	<code>\protect</code> .....	12986,	13074,
8934, 8935, 8939,	423,	13104,	13120,
9016, 9018, 9021, 9054	4281, 4282, 4283,	13135,	13147,
<code>\poem@write@aux</code> ...	4284, 4450, 4507,	13162,	13202,
... 9057, 9109, 9121	4508, 4509, 4510,	13231,	13244,
<code>\poemblocksep</code> .....	4823, 4829, 4835,	13258,	13271,
... 8928, 9032, 9132	4841, 4850, 4856,	13285,	13373,
<code>\poemcolsepkip</code> ...	5915, 5916, 6544,	13403,	13419,
..... 8919, 8948	6550, 7083, 7543,	13434,	13446,
<code>\poemextrabaselineskip</code>	15849, 16262,	13461,	13501,
... 8921, 9009, 9044	16276, 18140,	13530,	13543,
<code>\poemmarginsskip</code> ...	18145, 18212,	13557,	13570,
... 8920, 8942, 8943	19140, 23821,	13584,	13672,
<code>\poemskip</code> 8922, 9022, 9053	23822, 23826,	13702,	13718,
<code>\postbibhook</code> .....	23834, 24106,	13733,	13745,
<code>\postCutedStrip</code> .. 10516	24452, 25777, 26487	13760,	13800,
<code>\postdisplaypenalty</code>	<code>\protected</code> .....	13829,	13842,
..... 15759, 15773	4507, 4509, 5639,	13856,	13869,
<code>\postmath</code> .....	5640, 5641, 5642,	13883,	13971,
<code>\PotEndMark</code> .....	5863, 5871, 5873,	14001,	14017,
. 11134, 11139, 11142	5879, 6057, 6073,	14032,	14044,
<code>\preCutedStrip</code> ....	6089, 6112, 6114,	14059,	14099,
..... 10492, 10504	6167, 6222, 6237,	14128,	14141,
<code>\predisplaydirection</code>	20090, 20100,	14155,	14168,
..... 20174,	20110, 20118,	14182,	14270,
20175, 26583, 26584	25685, 25794,	14300,	14316,
<code>\predisplaypenalty</code>	25804, 25814, 25823	14331,	14343,
..... 15758, 15772	<code>\protected@edef</code> . 43,	14358,	14398,
<code>\premath</code> .....	57, 73, 256, 270,	14427,	14440,
<code>\prepare@bidi@copyins</code>	285, 2295, 2312,	14454,	14467,
..... 16536,	2329, 2345, 2361,	14481,	14569,
16569, 16618, 16776	2377, 8142, 8160,	14599,	14615,
<code>\preparefootins</code> ...	8178, 11742,	14630,	14642,
..... 16568, 16617	11758, 11773,	14657,	14697,
<code>\PrependToTokenList</code> 6586	11789, 11804,	14726,	14739,
<code>\prepnext@tok</code> .....	11817, 11830,	14753,	14766,
.... 1448, 1458,	11842, 11854,	14780,	15065,
1506, 1538, 9909, 9937	11867, 12189,	15096,	15114,
<code>\presetkeys</code> .....	12219, 12235,	15130,	15144,
..... 25597	12250, 12262,		



15160, 15199,	9375, 9552, 9585,	20018, 20022,
15229, 15243,	9798, 9853, 9895,	20034, 20045, 20072
15258, 15272,	9897, 9900, 9938,	\prw@mkboth .. 24112,
15287, 16130,	9981, 9996, 10094,	24117, 24129, 24134
16147, 16163,	10132, 10776,	\ps@scalebox .... 20238
16192, 16207, 16222	10941, 11060,	\ps@empty ..... 2208
\protected@write ..	11063, 11124,	\ps@navigation .... 2104
..... 4145,	11286, 11459,	\psgrid ..... 20183
4149, 6983, 6984,	11633, 11666,	\pspicture ..... 20180
6986, 6997, 6998, 7000	15457, 15633,	\psset ..... 20218
\protected@xdef ...	15662, 15676,	\pst@dimas ..... 20195
.... 2406, 2432,	15753, 15783,	\pst@dimb 20193, 20198,
2458, 8205, 8234,	15792, 15798,	20200, 20205, 20208
8263, 8646, 8663,	15948, 16290,	\pst@dimc ..... 20211
8679, 8690, 16095,	16357, 16534,	\pst@dimd .... 20192,
16104, 16261,	16777, 16904,	20198, 20199,
16266, 16275,	16946, 17247,	20200, 20201,
16281, 17430,	17891, 17977,	20205, 20206,
17468, 17501,	17981, 18003,	20207, 20208, 20209
17532, 17563, 17626	18016, 18069,	\pst@hbox .... 20188,
\providecommand ...	18173, 18299,	20192, 20193,
5088, 5089, 5090,	18330, 18339,	20194, 20210,
5091, 5092, 5093,	18414, 18998,	20212, 20213,
5104, 5105, 5106,	19155, 19393,	20215, 20223, 20231
5107, 5108, 5109,	19431, 19586,	\pst@ifstar ..... 20180
5110, 5111, 5112,	19653, 19681,	\pst@killglue .... 20184
5113, 5114, 5115,	19719, 19727,	\pst@picture ..... 20180
5116, 5117, 5118,	19748, 19768,	\pst@shift .....
5119, 5328, 8103,	19802, 19825,	. 20185, 20207, 20215
8110, 8111, 8520,	19833, 19881,	\pst@tempa . 20197, 20199
10648, 10653,	19945, 19951,	\pst@tempc .....
15981, 25141,	20179, 20240,	. 20222, 20229, 20233
25145, 25150,	20256, 20356,	\pst@tempd .....
25154, 25179,	20611, 20888,	. 20222, 20229, 20233
25183, 25188, 25192	21070, 21273,	\publisher ... 8683, 8684
\ProvidesClass ....	21402, 22141,	\publishers .....
... 5010, 8757, 8781	22914, 23679,	. 21749, 22489, 23262
\ProvidesExplPackage	23712, 23772,	\put .... 10003, 10004,
..... 18416	23798, 23803,	10005, 10006,
\ProvidesFile .... 1,	23837, 23912,	10007, 10008,
131, 165, 206, 336,	23942, 23961,	10013, 10014,
354, 359, 361, 447,	23981, 24010,	10015, 10016,
646, 895, 1147,	24059, 24143,	10017, 10018,
1407, 1542, 1560,	24453, 25227,	10026, 10027,
1880, 1976, 2060,	25473, 25602,	10028, 10029,
2064, 2471, 2594,	25678, 25782, 26755	10030, 10031,
2680, 2691, 2808,	\ProvidesPackage ..	10036, 10037,
2812, 3011, 3014,	4054, 4583, 4639,	10038, 10039,
3081, 3176, 3301,	4818, 5259, 5327,	10040, 10041,
3305, 3310, 3400,	7211, 7777, 8319,	10049, 10050,
3472, 3526, 3549,	8465, 8581, 8608,	10051, 10052,
3577, 3697, 3720,	8846, 10574, 10672	10053, 10054,
3787, 3875, 3970,	\prune .....	10059, 10060,
4029, 4039, 9198,	20009, 20013,	10061, 10062,



10063,	10064,	\raggedleft . . . .	25,	17984,	17987,
10072,	10073,		104, 234, 595, 608,	17992,	19037,
10074,	10075,		1545, 1553, 2870,	19038,	20243,
10076,	10077,		3051, 3286, 9555,	20245,	20251,
10082,	10083,		9750, 9764, 11321,	21234,	21246,
10084,	10085,		11334, 11584,	21757,	21758,
10086,	10087,		11599, 11636,	21833,	21834,
11065,	11089,		11639, 11644,	21835,	21837,
11119,	19781,		11652, 15490,	22497,	22594,
19783,	19796, 19799		15502, 15668,	22595,	22596,
			15673, 17914,	22598,	23270,
			17934, 17984,	23359,	23360,
			17987, 17992,	23361,	23363,
			19037, 19038,	24787,	24790,
			20243, 20245,	24794,	24905,
			20251, 21234,	26048,	26053,
			21246, 21757,	26055, 26056, 26057	
			21758, 21833,	\RaggedRightLeftskip	
			21834, 21835,	. . . . .	20288
			21837, 22497,	\RaggedRightParfillskip	
			22594, 22595,	. . . . .	20291
			22596, 22598,	\RaggedRightParindent	
			23270, 23359,	. . . . .	7270,
			23360, 23361,	7941, 8500, 20292	
			23363, 26052,	\RaggedRightRightskip	
			26054, 26056, 26057	. . . . .	8497, 20289
		\RaggedLeftLeftskip		\raggedsection . . . .	
		. . . . .	20275	. 21757, 22497, 23270	
		\RaggedLeftParfillskip		\raise . . . . .	1756,
		. . . . .	20278	1761, 1795, 1915,	
		\RaggedLeftParindent		2219, 2710, 2854,	
		. . . . .	20279	2855, 2856, 3366,	
		\RaggedLeftRightskip		3374, 3382, 3997,	
		. . . . .	20276	4016, 15656, 17929	
		\raggedpart . . . . .	21758	\raisebox . . . . .	
		\RaggedRight . .	20283,	7495, 7500, 7511,	
		20321, 20336,		7512, 7515, 7516,	
		20341, 20353,		11132, 11137,	
		20355, 23685,		11153, 11156,	
		23686, 23692,		11272, 17069,	
		23696, 23703, 23708		17071, 17075,	
		\raggedright . 25, 104,		17077, 17104,	
		234, 595, 607, 608,		17105, 17108,	
		1547, 1555, 1816,		17109, 17166,	
		1825, 1834, 2877,		17167, 17170,	
		3049, 3292, 9555,		17171, 17199,	
		9575, 9750, 9764,		17201, 17205, 17207	
		11321, 11334,		\rangle . . . . .	4732
		11584, 11599,		\ratio . . . . .	3215, 3530
		11636, 11639,		\rawtext . . . . .	19961,
		11644, 11652,		19967, 19989,	
		15490, 15502,		19990, 20071, 20075	
		15666, 15671,		\rbrace . . . . .	25906, 25915
		17914, 17934,		\rcb . 4733, 4736, 4737, 4741	



<code>\rcol@footinsskip</code>	.	1084, 1087, 1091,	9217, 9229, 9235,
	..... 16549, 16598	1116, 1117, 1118,	9251, 9307, 9323,
<code>\realfootnote</code>	.... 17623	1123, 1124, 1125,	9324, 9325, 9329,
<code>\recomputelengths</code>	.	1126, 1159, 1166,	9338, 9347, 9364,
	..... 5149, 5166	1178, 1184, 1202,	9365, 9370, 9371,
<code>\recomputethemelengths</code>		1252, 1281, 1282,	9372, 9373, 9387,
	..... 5148,	1283, 1287, 1296,	9394, 9406, 9412,
	5164, 10737, 10742	1305, 1322, 1323,	9428, 9460, 9500,
<code>\reenable@package@load</code>		1328, 1329, 1330,	9501, 9502, 9506,
	..... 6955, 6970	1331, 1334, 1337,	9515, 9524, 9541,
<code>\reflectbox</code>	..... 16838	1341, 1366, 1367,	9542, 9547, 9548,
<code>\refname</code>	611, 612, 746,	1368, 1373, 1374,	9549, 9550, 9598,
	747, 1009, 1010,	1375, 1376, 1463,	9605, 9606, 9607,
	1259, 1260, 5235,	1464, 1481, 1482,	9628, 9629, 9630,
	8555, 11342, 11343	1483, 1882, 2053,	9631, 9636, 9637,
<code>\refstepcounter</code>	590,	2411, 2437, 2463,	9638, 9639, 9663,
	11316, 15774,	2475, 2482, 2516,	9664, 9665, 9666,
	16295, 16301,	2518, 2519, 2525,	9667, 9672, 9673,
	17800, 18128,	2527, 2529, 2530,	9674, 9675, 9699,
	18134, 18175,	2542, 2558, 2559,	9841, 9855, 9856,
	19131, 19737,	2571, 2572, 2616,	9857, 9862, 9863,
	19758, 21844,	2696, 2699, 2701,	9864, 9865, 9868,
	22605, 23370, 24103	2702, 2703, 2914,	9872, 9873, 9874,
<code>\regex</code>	..... 18444,	2929, 2944, 3247,	9875, 9876, 9877,
	18449, 18452,	3249, 3253, 3255,	9977, 9995, 10147,
	18455, 18458,	3324, 3364, 3373,	10210, 10341,
	18459, 18495,	3381, 4152, 4153,	10343, 10378,
	18500, 18502,	4450, 4483, 4626,	10404, 10434,
	18546, 18547, 18559	4627, 4628, 4633,	10587, 10685,
<code>\reinsert@footnotes</code>		4634, 4635, 4636,	10777, 10778,
	..... 15451	4906, 4914, 4922,	10779, 10780,
<code>\relax</code>	2, 8, 10, 12, 14, 28,	4973, 5043, 5302,	10781, 10793,
	85, 103, 132, 166,	5307, 5313, 5328,	10814, 10868,
	207, 213, 215, 217,	5543, 5546, 5556,	10880, 10883,
	219, 233, 242, 298,	5574, 5634, 5836,	10920, 10932,
	311, 329, 423, 452,	5840, 5850, 5857,	10935, 11096,
	453, 454, 475, 476,	5870, 6054, 6384,	11114, 11175,
	477, 478, 483, 484,	6385, 6389, 6428,	11254, 11302,
	485, 486, 510, 511,	6429, 6471, 6494,	11370, 11371,
	512, 513, 514, 519,	6621, 6635, 6698,	11372, 11391,
	520, 521, 522, 546,	6700, 6709, 6710,	11392, 11397,
	643, 658, 665, 695,	6726, 6734, 6751,	11398, 11399,
	701, 719, 772, 779,	6762, 6767, 7244,	11400, 11424,
	780, 781, 785, 794,	7742, 7951, 8059,	11425, 11426,
	803, 820, 821, 826,	8122, 8126, 8130,	11431, 11432,
	827, 828, 829, 832,	8210, 8221, 8239,	11433, 11434,
	835, 839, 864, 865,	8250, 8268, 8279,	11463, 11464,
	866, 871, 872, 873,	8337, 8534, 8542,	11465, 11486,
	874, 907, 923, 945,	8547, 8578, 8763,	11487, 11488,
	963, 972, 1006,	8787, 8883, 8888,	11489, 11494,
	1031, 1032, 1033,	8891, 8898, 8936,	11495, 11496,
	1037, 1046, 1055,	8942, 9037, 9055,	11497, 11521,
	1072, 1073, 1078,	9084, 9091, 9098,	11522, 11523,
	1079, 1080, 1081,	9110, 9146, 9210,	11524, 11525,



11530,	11531,	16285,	16390,	20510,	20519,
11532,	11533,	16412,	16450,	20536,	20537,
11557,	11705,	16561,	16610,	20542,	20543,
11706,	11707,	17009,	17011,	20544,	20545,
11708,	11709,	17014,	17027,	20548,	20551,
11899,	11979,	17029,	17032,	20555,	20580,
12003,	12137,	17278,	17289,	20581,	20582,
12141,	12162,	17300,	17311,	20587,	20588,
12166,	12288,	17325,	17336,	20589,	20590,
12436,	12440,	17347,	17358,	20623,	20632,
12461,	12465,	17373,	17388,	20633,	20634,
12581,	12723,	17429,	17448,	20640,	20649,
12727,	12748,	17467,	17486,	20658,	20675,
12752,	12874,	17500,	17519,	20676,	20677,
13022,	13026,	17531,	17550,	20678,	20683,
13047,	13051,	17562,	17581,	20684,	20685,
13173,	13321,	17663,	17697,	20686,	20689,
13325,	13346,	17728,	17757,	20692,	20696,
13350,	13472,	17894,	17913,	20721,	20722,
13620,	13624,	17923,	17935,	20723,	20724,
13645,	13649,	17941,	17943,	20725,	20730,
13771,	13919,	17945,	17947,	20731,	20732,
13923,	13944,	18006,	18212,	20733,	20777,
13948,	14070,	18378,	18381,	20783,	20799,
14218,	14222,	18384,	18385,	20825,	20882,
14243,	14247,	18386,	18392,	20887,	20892,
14369,	14517,	19001,	19002,	20893,	20894,
14521,	14542,	19003,	19004,	20925,	20926,
14546,	14668,	19005,	19065,	20927,	20928,
14824,	14837,	19169,	19269,	20933,	20934,
14839,	14854,	19395,	19397,	20935,	20936,
14861,	14892,	19398,	19401,	20965,	20966,
14907,	14914,	19407,	19409,	20967,	20968,
14945,	14963,	19410,	19413,	20969,	20974,
14997,	15014,	19419,	19421,	20975,	20976,
15048,	15318,	19422,	19425,	20977,	20999,
15320,	15413,	19518,	19563,	21083,	21089,
15414,	15459,	19787,	19788,	21090,	21091,
15537,	15538,	19789,	19837,	21112,	21113,
15539,	15558,	19842,	19847,	21114,	21115,
15559,	15564,	19856,	19864,	21120,	21121,
15565,	15566,	19886,	19889,	21122,	21123,
15567,	15591,	19890,	19891,	21147,	21148,
15592,	15593,	19892,	19901,	21149,	21150,
15598,	15599,	19903,	19904,	21151,	21156,
15600,	15601,	19905,	19906,	21157,	21158,
15638,	15640,	20081,	20145,	21159,	21183,
15644,	15689,	20255,	20326,	21421,	21434,
15725,	15754,	20332,	20344,	21436,	21442,
15764,	15808,	20368,	20375,	21488,	21489,
15828,	15829,	20405,	20411,	21495,	21496,
15844,	15946,	20427,	20459,	21498,	21501,
16077,	16099,	20495,	20496,	21521,	21524,
16108,	16270,	20497,	20501,	21525,	21526,



21528,	21530,	23261,	23262,	25300,	25304,
21541,	21544,	23263,	23264,	25313,	25314,
21545,	21546,	23265,	23266,	25325,	25333,
21602,	21643,	23268,	23298,	25344,	25350,
21649,	21670,	23585,	23602,	25354,	25358,
21725,	21726,	23719,	23756,	25375,	25379,
21727,	21728,	23819,	23834,	25428,	25429,
21729,	21730,	23844,	23846,	25432,	25480,
21744,	21745,	23875,	24033,	25488,	25629,
21746,	21747,	24051,	24052,	25712,	25761,
21748,	21749,	24139,	24150,	25776,	25869,
21750,	21751,	24168,	24171,	25936,	25948,
21752,	21753,	24174,	24199,	25999,	26077,
21755,	21773,	24202,	24205,	26080,	26082,
22058,	22074,	24222,	24225,	26134,	26135,
22160,	22173,	24228,	24239,	26138,	26158,
22175,	22181,	24242,	24245,	26167,	26171,
22228,	22229,	24256,	24259,	26206,	26253,
22235,	22236,	24262,	24271,	26590,	26591, 26592
22238,	22241,	24273,	24276,	\remainx . . . . .	19589
22261,	22264,	24279,	24288,	\remainxox .	19624, 19631
22265,	22266,	24290,	24293,	\remainxoxx . . . . .	
22268,	22270,	24296,	24307,	. 19634, 19643, 19652	
22281,	22284,	24310,	24313,	\remainxxx . .	19592, 19594
22285,	22286,	24325,	24328,	\remainxxx . . . . .	
22342,	22383,	24331,	24344,	. . 19597, 19599,	
22389,	22410,	24347,	24350,	19601, 19626, 19629	
22465,	22466,	24364,	24367,	\remainxxxx . .	19604,
22467,	22468,	24370,	24382,	19606,	19608,
22469,	22470,	24397,	24399,	19610,	19636,
22484,	22485,	24402,	24405,	19638,	19641,
22486,	22487,	24419,	24449,	19645,	19648, 19650
22488,	22489,	24450,	24451,	\remainxxxxx . . . . .	
22490,	22491,	24580,	24604,	. . 19613, 19615,	
22492,	22493,	24692,	24721,	19617, 19619, 19621	
22495,	22533,	24733,	24745,	\remove@strip .	19177,
22820,	22837,	24750,	24753,	19207, 19277, 19307	
22933,	22946,	24757,	24759,	\RemoveFromHook . .	18004
22948,	22954,	24773,	24775,	\renewcommand . . .	19,
23001,	23002,	24783,	24801,	20, 21, 22, 86,	
23008,	23009,	24805,	24817,	168, 198, 201,	
23011,	23014,	24818,	24820,	203, 205, 224,	
23034,	23037,	24826,	24834,	225, 226, 227, 299,	
23038,	23039,	24836,	24908,	339, 450, 489, 491,	
23041,	23043,	24922,	24956,	545, 562, 576, 580,	
23054,	23057,	24963,	24969,	584, 585, 586, 587,	
23058,	23059,	25056,	25115,	622, 662, 684, 700,	
23115,	23156,	25118,	25122,	718, 726, 739, 741,	
23162,	23183,	25128,	25173,	742, 743, 744, 757,	
23238,	23239,	25242,	25250,	763, 769, 775, 776,	
23240,	23241,	25251,	25253,	786, 843, 845, 911,	
23242,	23243,	25254,	25267,	928, 941, 944, 962,	
23257,	23258,	25278,	25282,	969, 995, 996, 997,	
23259,	23260,	25287,	25292,	998, 999, 1004,	





1020, 1027, 1028,  
1038, 1095, 1097,  
1163, 1167, 1183,  
1201, 1210, 1223,  
1243, 1249, 1254,  
1255, 1256, 1257,  
1270, 1277, 1278,  
1288, 1345, 1347,  
1551, 1881, 2065,  
2238, 2285, 2302,  
2319, 2336, 2352,  
2368, 2392, 2418,  
2444, 2614, 2668,  
2809, 3227, 4615,  
4617, 5035, 5036,  
5037, 5073, 5074,  
5079, 5128, 5132,  
5163, 5168, 5249,  
7248, 7257, 7298,  
7416, 7419, 7420,  
7424, 7425, 7577,  
7578, 7927, 7928,  
7929, 7930, 7931,  
7932, 7933, 7934,  
7935, 7989, 8104,  
8113, 8134, 8152,  
8170, 8285, 8286,  
8287, 8369, 8378,  
8430, 8438, 8462,  
8467, 8478, 8479,  
8480, 8481, 8482,  
8483, 8484, 8550,  
8555, 8557, 8558,  
8575, 8576, 8577,  
8578, 8635, 8636,  
8637, 8639, 8643,  
8644, 8645, 8649,  
8650, 8656, 8660,  
8661, 8662, 8666,  
8667, 8672, 8676,  
8677, 8678, 8687,  
8688, 8689, 8693,  
8694, 8716, 8740,  
8802, 8815, 8820,  
8828, 9214, 9218,  
9234, 9250, 9258,  
9272, 9292, 9298,  
9304, 9309, 9310,  
9311, 9312, 9313,  
9314, 9316, 9318,  
9320, 9330, 9391,  
9395, 9411, 9427,  
9435, 9449, 9451,  
9457, 9480, 9486,

9487, 9488, 9489,  
9490, 9491, 9493,  
9495, 9497, 9507,  
9603, 9642, 9644,  
9698, 9713, 9728,  
9732, 9736, 9738,  
9740, 9742, 9743,  
9744, 9745, 9746,  
9747, 9770, 9789,  
9854, 9859, 9881,  
9888, 9898, 9982,  
9987, 9999, 10022,  
10045, 10068,  
10095, 10111,  
10588, 10628,  
10629, 10630,  
10631, 10632,  
10633, 10634,  
10635, 10649,  
10654, 10686,  
10720, 10721,  
10722, 10723,  
10724, 10725,  
10726, 10727,  
10737, 10749,  
10937, 10938,  
10939, 11061,  
11064, 11068,  
11094, 11259,  
11260, 11287,  
11301, 11353,  
11359, 11363,  
11368, 11403,  
11405, 11455,  
11456, 11457,  
11458, 11461,  
11500, 11502,  
11556, 11570,  
11572, 11574,  
11576, 11577,  
11578, 11579,  
11580, 11581,  
11605, 11624,  
11634, 11647,  
11658, 11662,  
11734, 11765,  
11796, 11810,  
11835, 11847,  
15458, 15473,  
15508, 15512,  
15528, 15535,  
15570, 15572,  
15622, 15623,  
15624, 15625,

15626, 15627,  
15629, 15631,  
15784, 15794,  
15899, 15918,  
15920, 15922,  
15924, 15925,  
15926, 15927,  
15928, 15929,  
15931, 15933,  
15935, 15937,  
15938, 15939,  
15940, 15941,  
15942, 15943,  
15953, 16021,  
16294, 16300,  
16319, 16331,  
16343, 16358,  
16905, 16915,  
17895, 17952,  
17953, 17954,  
17955, 17978,  
17982, 17995,  
17999, 18238,  
18999, 19010,  
19033, 19034,  
19035, 19036,  
19037, 19038,  
19039, 19040,  
19042, 19044,  
19046, 19048,  
19049, 19051,  
19052, 19059,  
19060, 19062,  
19068, 19069,  
19587, 19590,  
19595, 19602,  
19611, 19622,  
19627, 19632,  
19639, 19646,  
19663, 19665,  
19682, 19732,  
19753, 19834,  
19843, 20241,  
20244, 20253,  
20257, 20270,  
20283, 20296,  
20308, 20372,  
20394, 20410,  
20426, 20434,  
20448, 20450,  
20456, 20473,  
20479, 20480,  
20481, 20482,  
20483, 20484,



20486,	20488,	22159,	22226,	24270,	24287,
20491,	20492,	22233,	22240,	24304,	24322,
20502,	20559,	22290,	22292,	24340,	24341,
20561,	20628,	22411,	22413,	24360,	24361,
20629,	20641,	22498,	22499,	24380,	24448,
20700,	20702,	22507,	22508,	24729,	24794,
20766,	20782,	22511,	22512,	25107,	25109,
20798,	20806,	22516,	22519,	25111,	25127,
20820,	20822,	22521,	22540,	25134,	25136,
20844,	20845,	22565,	22594,	25138,	25158,
20846,	20847,	22595,	22596,	25172,	25177,
20848,	20849,	22597,	22600,	25197,	25200,
20851,	20853,	22641,	22658,	25201,	25216,
20867,	20873,	22672,	22678,	25222,	25228,
20879,	20884,	22758,	22781,	25348,	25455,
20890,	20898,	22783,	22804,	25477,	25495,
20939,	20941,	22806,	22808,	25517,	25529,
20998,	21012,	22811,	22817,	25565,	26054,
21027,	21030,	22825,	22827,	26055,	26284,
21034,	21038,	22830,	22836,	26285, 26286, 26596	
21040,	21042,	22838,	22920,	<b>\RenewDocumentCommand</b>	
21044,	21045,	22924,	22928,	. . . . . 6982,	
21046,	21047,	22932,	22999,	6996, 18602, 18935	
21048,	21061,	23006,	23013,	<b>\renewenvironment</b> 83,	
21087,	21126,	23063,	23065,	296, 610, 631,	
21128,	21182,	23184,	23186,	647, 667, 674,	
21197,	21212,	23271,	23272,	745, 896, 974, 981,	
21216,	21220,	23276,	23277,	1008, 1148, 1226,	
21222,	21224,	23280,	23281,	1233, 1258, 1977,	
21226,	21227,	23285,	23288,	2229, 2246, 2655,	
21228,	21229,	23290,	23305,	7519, 7522, 7525,	
21230,	21231,	23330,	23359,	7528, 8526, 8536,	
21264,	21408,	23360,	23361,	8544, 8560, 8771,	
21412,	21416,	23362,	23365,	9199, 9274, 9280,	
21420,	21486,	23406,	23423,	9376, 9462, 9468,	
21493,	21500,	23437,	23443,	9586, 9777, 9839,	
21550,	21552,	23523,	23546,	9860, 9994, 11341,	
21671,	21673,	23548,	23569,	11612, 15516,	
21759,	21760,	23571,	23573,	15771, 16375,	
21761,	21764,	23576,	23582,	19150, 19654,	
21765,	21779,	23590,	23592,	19769, 20357,	
21804,	21833,	23595,	23601,	20377, 20384,	
21834,	21835,	23603,	23681,	20461, 20612,	
21836,	21839,	23684,	23689,	20827, 20834,	
21880,	21897,	23691,	23693,	20855, 21049,	
21911,	21917,	23695,	23700,	21071, 21252,	
21996,	22019,	23702,	23707,	21768, 22529,	
22021,	22042,	23709,	23982,	23294, 24064,	
22044,	22046,	24011,	24017,	24067, 24095, 25918	
22049,	22055,	24049,	24063,	<b>\renewrobustcmd</b> . . .	
22063,	22065,	24077,	24089,	. 18369, 18395, 18406	
22067,	22073,	24145,	24148,	<b>\renewtagform</b> . . . . 18337	
22075,	22147,	24195,	24214,	<b>\repeat</b> . . . 4379, 4380,	
22151,	22155,	24236,	24253,	4381, 6648, 6655,	



10110,	10386,	11865,	12187,	14778,	15063,	
14833,	19979,	12217,	12233,	15094,	15112,	
20026,	20037,	12248,	12260,	15128,	15142,	
20048,	20076,	12275,	12315,	15158,	15197,	
23858		12344,	12357,	15227,	15241,	
<code>\RequirePackage</code>	4239,	12371,	12384,	15256,	15270,	
	4241, 4242, 4243,	12398,	12486,	15285,	15860,	
	4244, 4386, 4640,	12515,	12530,	16124,	16125,	
	4641, 5045, 5046,	12544,	12555,	16141,	16142,	
	5047, 5048, 5055,	12569,	12608,	16157,	16158,	
	5056, 5071, 5124,	12636,	12648,	16188,	16189,	
	7213, 7275, 7277,	12661,	12673,	16203,	16204,	
	7284, 7305, 7309,	12686,	12773,	16218,	16219,	
	7345, 7346, 7569,	12803,	12819,	26379,	26423, 26523	
	7779, 7780, 7781,	12834,	12846,	<code>\ResetCounterPerPage</code>		
	7782, 7986, 7987,	12861,	12901,	.....	4387, 5262	
	8102, 8321, 8496,	12930,	12943,	<code>\resizebox</code>	.....	16859
	8507, 8559, 8585,	12957,	12970,	<code>\restore@protect</code>	..	5917
	8593, 8610, 8765,	12984,	13072,	<code>\restoreCaptionSkip</code>		
	8766, 8767, 8768,	13102,	13118,	.....	17040	
	8769, 8770, 8789,	13133,	13145,	<code>\restorecounters@</code>	11186	
	8790, 8791, 8792,	13160,	13200,	<code>\restylefloat</code>	.....	7769
	8793, 8794, 9998,	13229,	13242,	<code>\resumename</code>	.....	5125
	15793,	13256,	13269,	<code>\rightskip</code>	.....	24450
	18331, 18415, 23680	13283,	13371,	<code>\right</code>	25906, 25915, 25917	
<code>\RequireXeTeX</code>	. 4240, 4491	13401,	13417,	<code>\right@cor</code>	... 19179,	
<code>\reserved@a</code>	4952, 4956,	13432,	13444,	19180,	19279, 19280	
	4962, 4965, 4968,	13459,	13499,	<code>\right@footnoterule</code>		
	4971, 5392, 5396,	13528,	13541,	26, 240, 452, 580,		
	5902, 5903, 5904,	13555,	13568,	769, 779, 1004,		
	7084, 7085, 24738,	13582,	13670,	1031, 1249, 1281,		
	24739,	13700,	13716,	2337, 2353, 9304,		
	24741,	13731,	13743,	9323, 9457, 9500,		
	24744,	13758,	13798,	9605, 9732, 11363,		
	24746,	13827,	13840,	11370,	11463,	
	24748,	13854,	13867,	11662,	15512,	
	24750,	13881,	13969,	15537,	16037,	
	24753,	13999,	14015,	16051,	16061,	
	24757,	14030,	14042,	16184,	16214,	
	24790,	14057,	14097,	17921,	17999,	
	24791,	14126,	14139,	18314,	18322,	
	24794,	14153,	14166,	19561,	20456,	
	24795,	14180,	14268,	20495,	20632,	
	25344, 25345	14298,	14314,	20879,	20892,	
<code>\reserved@b</code>	... 4932,	14329,	14341,	21034,	21089,	
	4933, 5392, 5396, 5397	14356,	14396,	21216,	21493,	
<code>\reserved@d</code>	.. 5391, 5396	14425,	14438,	21544,	22233,	
<code>\reset@dir</code>	. 20145, 25869	14452,	14465,	22284,	23006, 23057	
<code>\reset@font</code>	.... 37,	14479,	14567,	<code>\rightfootnoterule</code>		
	51, 67, 250, 264,	14597,	14613,	.....	4122,	
	279, 2292, 2309,	14628,	14640,	10778,	11706,	
	2326, 2341, 2357,	14655,	14695,	16049,	16766, 26592	
	2373, 7822, 7866,	14724,	14737,	<code>\rightline</code>	. 20178, 26068	
	7910, 8138, 8139,	14751,	14764,			
	8156, 8157, 8174,					
	8175,					
	11738,					
	11754,					
	11769,					
	11785,					
	11800,					
	11815,					
	11828,					
	11840,					
	11852,					



<code>\rightlinenumbers</code> .	20777, 20788,	16364, 16797,
..... 18043, 18051	20811, 20814,	16843, 16909,
<code>\rightmargin</code> ... 989,	20815, 20825,	16910, 16923,
8512, 8531, 8539,	20838, 20887,	16924, 17979,
8545, 16512,	21003, 21018,	19455, 20164,
16516, 20251,	21021, 21022,	20562, 20703,
21434, 22173,	21027, 21028,	20900, 20943,
22946, 25941,	21188, 21203,	21129, 21552,
25952, 25958,	21206, 21207,	21673, 22292,
25964, 25972, 25976	21426, 22165,	22413, 23065,
<code>\rightskip</code> ..... 12,	22938, 23986,	23186, 23747, 25879
13, 217, 218, 315,	23991, 24002,	<code>\RLE</code> . 4283, 4509, 17789,
319, 551, 568, 571,	24015, 24019,	20135, 20136,
572, 665, 678, 689,	24039, 24042,	20140, 25482,
690, 695, 706, 731,	24047, 24051,	25859, 25860, 25864
734, 735, 916, 917,	24052, 24168,	<code>\rmfamily</code> ..... 775,
923, 933, 936, 937,	24169, 24170,	1027, 1277, 8340,
950, 972, 1166,	24178, 24199,	8393, 8396, 8400,
1172, 1173, 1178,	24200, 24201,	8403, 8407, 8410,
1189, 1215, 1218,	24209, 24222,	8414, 8417, 8421,
1219, 1237, 2006,	24223, 24224,	8424, 20491, 20628
2007, 2010, 2815,	24232, 24239,	<code>\romannumeral</code> ..... ..... 6694, 6695,
2825, 3311, 3313,	24240, 24241,	9057, 9120, 11194,
8450, 8457, 8458,	24249, 24256,	11197, 11243,
9028, 9217, 9223,	24257, 24258,	15901, 15902,
9224, 9229, 9240,	24266, 24273,	15903, 15904,
9263, 9266, 9267,	24274, 24275,	15906, 15907,
9394, 9400, 9401,	24283, 24290,	15908, 15909,
9406, 9417, 9440,	24291, 24292,	15910, 15913,
9443, 9444, 9704,	24300, 24307,	15914, 15915, 25944
9719, 9722, 9723,	24308, 24309,	<code>\rot@float@box</code> 21281,
9855, 9856, 9857,	24317, 24325,	21282, 21283,
9983, 9984, 9990,	24326, 24327,	21297, 21306,
11293, 11296,	24335, 24344,	21324, 21325,
11297, 11307,	24345, 24346,	21326, 21327,
11561, 12096,	24354, 24364,	21328, 21344, 21355
15342, 15464,	24365, 24366,	<code>\rot@label</code> . 21277, 21320
15479, 15482,	24374, 24399,	<code>\rot@LR</code> .... 21288, 21333
15483, 17945,	24400, 24401,	<code>\rot@mess@toks</code> 21280,
17946, 18359,	24409, 24449,	21292, 21302,
19033, 19034,	24451, 25248,	21311, 21323,
19397, 19401,	25310, 25311,	21338, 21350, 21360
19402, 19409,	25312, 25318,	<code>\rot@message</code> 21311, 21360
19414, 19421,	25321, 25368,	<code>\rot@pageref</code> 21278, 21321
19426, 20262,	25428, 25433,	<code>\rotate</code> ..... 21374
20264, 20275,	25456, 25463,	<code>\rotatebox</code> ... 15944,
20277, 20288,	25832, 25833,	16972, 17021,
20290, 20299,	26049, 26074,	17234, 18301,
20301, 20375,	26075, 26134, 26139	18303, 18305,
20388, 20399,	<code>\RL</code> .. 17790, 20135, 25859	18428, 18436,
20400, 20405,	<code>\rlap</code> ..... 316, 492,	18958, 21297,
20416, 20439,	846, 1348, 1582,	21306, 21344, 21355
20442, 20443,	4618, 9645, 11406,	<code>\rotateframe</code> 15906, 15943
20771, 20772,	11503, 15573,	



<code>\rotFPbot</code> . . . . .	21298, 21305, 21345, 21354	12275, 12298, 12384, 12398,	11719, 11725, 11731, 16135,
<code>\rotFPtop</code> . . . . .	21296, 21307, 21343, 21356	12555, 12569, 12591, 12673,	16152, 16168, 16196, 16211,
<code>\rrb</code> . . . . .	4735, 4745	12686, 12846, 12861, 12884,	16226, 18609, 20215
<code>\rsb</code> . . . . .	4734, 4743	12970, 12984, 13145, 13160,	<b>S</b>
<code>\RTL</code> . . . . .	20128, 25844, 25846	12970, 12984, 13145, 13160,	<code>\s</code> . . . . . 18458, 18459
<code>\RTL@column@boxes</code> . . . . .	19479, 19506, 19511	13183, 13269, 13283, 13444,	<code>\save@dir</code> . . . . . 20144, 25868
<code>\RTL@outputdblcol</code> . . . . .	10134, 15677, 16593, 19156, 26193, 26284, 26285	13459, 13482, 13568, 13582, 13743, 13758, 13781, 13867,	<code>\savebox</code> . . . . . 11200, 16969, 16971, 17051
<code>\RTLbidituftesidenotemarginpar</code> . . . . .	7871, 8171, 8312	13881, 14042, 14057, 14080, 14166, 14180,	<code>\saveCaptionSkip</code> . . . . . 17001
<code>\RTLcases</code> . . . . .	25916, 25919	14341, 14356, 14379, 14465,	<code>\savecounters@</code> . . . . . 11183
<code>\RTLcite</code> . . . . .	8098, 8218, 8247, 8276, 8298, 8307, 8316	14479, 14640, 14655, 14678, 14764, 14778,	<code>\saved@dir</code> . . . . . 20144, 20145, 25868, 25869
<code>\RTLdblcol</code> . . . . .	26285	15142, 15158, 15180, 15270, 15285	<code>\saved@tempdimb</code> . . . . . 10308, 10391, 10400
<code>\RTLdfnmakecol</code> . . . . .	10938	<code>\RTLmarginnote</code> . . . . . 8309	<code>\sbox</code> . . . . . 11266, 17003, 17020, 18110, 18229, 18427, 18435, 18627, 18914, 18953, 18958, 19070, 19085, 19117, 19770, 24001, 24018, 24815, 26573
<code>\RTLfootfootmark</code> . . . . .	11724, 11928, 12298, 12591, 12884, 13183, 13482, 13781, 14080, 14379, 14678, 15180, 16343	<code>\RTLmarginpar</code> . . . . . 26384	<code>\SC@FLOAT</code> 23681, 23689, 23693, 23700, 23702, 23707, 23709
<code>\RTLfootmarkstyle</code> . . . . .	11903, 11942	<code>\RTLMulticolcolumns</code> . . . . . 19504	<code>\SC@justify@caption</code> . . . . . 23684, 23691, 23695, 23701, 23703, 23708, 23710
<code>\RTLfootnote</code> . . . . .	457, 531, 2418, 4822, 4835, 8287, 8637, 9610, 9684, 11468, 11542, 16094, 16292, 16300, 20637, 20743, 20897, 20985, 21094, 21168, 21549, 22289, 23062	<code>\RTLSidenote</code> . . . . . 8041, 8283	<code>\sc@wm@text</code> . . . . . 11062
<code>\RTLfootnotetext</code> . . . . .	4890, 4901, 9070, 9080, 16276, 16279, 17459, 18267, 23907, 23911	<code>\RTLthanks</code> . . . . . 457, 477, 512, 531, 8637, 8645, 8662, 8678, 8689, 9610, 9630, 9665, 9684, 11468, 11488, 11523, 11542, 16274, 19003, 20637, 20677, 20723, 20743, 20897, 20927, 20967, 20985, 21094, 21114, 21149, 21168, 21549, 21728, 22289, 22468, 23062, 23241	<code>\scalebox</code> . . . . . 16857
<code>\RTLfootscript</code> . . . . .	11903, 11931, 11935, 11937, 16346, 16350, 16352	<code>\rtside</code> . . . . . 20009, 20011, 20022, 20024, 20045, 20047	<code>\scantokens</code> . . . . . 6053, 6065
<code>\RTLfoottextfont</code> . . . . .	11725, 11770, 11786, 11853, 11866, 11959, 12260,	<code>\rule</code> . . . . . 46, 60, 76, 259, 273, 288, 2299, 2316, 2333, 2349, 2365, 2381, 5173, 10642, 11275, 11279, 11282,	<code>\scr@mmakesinglelinecaption</code> . . . . . 21868, 21888, 21911, 22629, 22649, 22672, 23394, 23414, 23437
			<code>\scr@caption</code> . . . . . 22022, 22024, 22026, 22784, 22786, 22788, 23549, 23551, 23553
			<code>\scr@compatibility</code> . . . . . 21501, 21602, 21725, 22241, 22342, 22465, 23014, 23115, 23238
			<code>\scr@dte@current</code> . . . . . 24904, 24907



<code>\scr@dte@def@l@targetocline</code>	25052, 25068,	9277, 9465, 20380,
..... 24615	25121, 25148,	20389, 20830, 20839
<code>\scr@dte@def@l@tocline</code>	25167, 25186, 25202	<code>\sectfont</code> ..... 20245
..... 24865	<code>\scr@LT@array</code> . 17799,	<code>\section</code> ... 611, 639,
<code>\scr@dte@def@l@undottedtocline</code>	22019, 22020,	655, 670, 676, 679,
..... 24454	22032, 22781,	746, 904, 977, 983,
<code>\scr@dte@donumwidth</code>	22782, 22794,	985, 1009, 1156,
..... 25134, 25135	23546, 23547, 23559	1229, 1235, 1238,
<code>\scr@dte@targetocline@init</code>	<code>\scr@makemultilinecaption</code>	1259, 5169, 5235,
..... 24616	.. 21870, 21875,	8342, 8364, 8432,
<code>\scr@dte@nosub</code> 24920,	21917, 22631,	8440, 8555, 8558,
24922, 24952,	22636, 22678,	8562, 9277, 9465,
24953, 24955,	23396, 23401, 23443	11342, 20380,
24960, 24962,	<code>\scr@makesinglelinecaption</code>	20386, 20389,
24967, 24968,	..... 21872,	20830, 20836, 20839
24980, 24985,	21880, 22633,	<code>\sectionbib</code> ..... 24089
24993, 24998,	22641, 23398, 23406	<code>\sectionfont</code> ... 5109,
25052, 25054, 25205	<code>\scr@parindent</code> ....	5117, 10633, 10726
<code>\scr@dte@numberline@box</code>	.. 22134, 22907, 23672	<code>\sectionstyle</code> . 5117, 5175
..... 24813, 24840	<code>\scr@sav@footnotetext</code>	<code>\sectiontitlecolour</code>
<code>\scr@dte@pagenumberwidth</code>	..... 21405,	... 5100, 10595,
..... 24851	21409, 22144,	10603, 10610,
<code>\scr@dte@tocline</code> ..	22148, 22917, 22921	10617, 10624,
..... 24729, 25212	<code>\scr@sav@LTRfootnotetext</code>	10694, 10700,
<code>\scr@dte@tocline@init</code>	.. 21403, 21406,	10706, 10712, 10718
..... 24866	21413, 22142,	<code>\selectfont</code> ... 357,
<code>\scr@dte@tocline@numberwidth</code>	22145, 22152,	5858, 8703, 8705,
..... 24816,	22915, 22918, 22925	8707, 19783, 19796
24819, 24821, 24824	<code>\scr@sav@RTLfootnotetext</code>	<code>\separatorcolumnwidth</code>
<code>\scr@dte@tocline@numbox</code>	.. 21404, 21407,	..... 5140,
.. 24815, 24817, 24831	21417, 22143,	5141, 5152, 5158,
<code>\scr@dte@undottedtocline@init</code>	22146, 22156,	5174, 5179, 5185,
..... 24455	22916, 22919, 22929	5243, 10740, 10770
<code>\scr@endstrut</code> . 21950,	<code>\scr@smashdp</code> .....	<code>\SepMark</code> ... 25928, 25929
21960, 21971,	.. 21942, 21973,	<code>\seq</code> . 6833, 6838, 18690,
21982, 22711,	21976, 22703,	18691, 19814, 19817
22721, 22732,	22734, 22737,	<code>\set@color</code> 9941, 9946,
22743, 23476,	23468, 23499, 23502	9954, 9960, 9968,
23486, 23497, 23508	<code>\scr@trim@spaces</code> . 24740	9975, 9980, 16371,
<code>\scr@ifundefinedorrelax</code>	<code>\scr@tso@figure@pagenumberformat</code>	25681, 25685, 25781
.. 21923, 21936,	..... 25216	<code>\set@split@topskip@to</code>
22684, 22697,	<code>\scr@tso@table@pagenumberformat</code>	..... 10306, 10564
23449, 23462,	..... 25222	<code>\set@typeset@protect</code>
24489, 24537,	<code>\scr@v@is@ge</code> .....	..... 15855,
24582, 24648,	.. 21421, 22160, 22933	15859, 23794,
24694, 24721,	<code>\scr@v@is@gt</code> 22500, 22522	26109, 26495, 26497
24742, 24747,	<code>\scr@v@is@le</code> .. 22515,	<code>\SetatBoolean</code> ..... 5468
24803, 24918,	22518, 23284, 23287	<code>\setbaselineskip</code> .. 5856
24920, 24949,	<code>\scriptsize</code> ... 1682,	<code>\setbeamerfont</code> 1682, 1791
24952, 24953,	1791, 3329, 8478	<code>\setbeamersize</code> ....
24960, 24978,	<code>\scshape</code> ..... 9558	... 2065, 3083, 3663
24980, 24991,	<code>\secshape</code> .. 20986, 21027	<code>\setbeamertemplate</code>
24993, 25009,	<code>\SectFont</code> 670, 679, 977,	..... 3012,
25049, 25050,	985, 1229, 1238,	3015, 3016, 3018,



3019, 3170, 3171,	10310,	10312,	14162,	14176,
3172, 3177, 3185,	10313,	10316,	14283,	14325,
3213, 3278, 3284,	10317,	10345,	14352,	14381,
3290, 3296, 3298,	10351,	10354,	14410,	14434,
3302, 3303, 3306,	10362,	10400,	14448,	14461,
3307, 3308, 3317,	10401,	10431,	14475,	14582,
3523, 3527, 3545,	10451,	10488,	14624,	14651,
3615, 3783, 3871,	10499,	10512,	14680,	14709,
3966, 4032, 4034, 4045	10562,	10786,	14733,	14747,
\SetBoolean . . . . . 5452	10794,	10795,	14760,	14774,
\setboolean 7219, 7220,	10799,	10807,	14809,	14810,
7222, 7224, 7229,	10815,	10816,	14817,	14827,
7230, 7234, 7235,	10820,	10835,	14830,	14832,
7306, 7310, 7313,	10838,	10843,	14834,	15067,
7318, 7320, 7324,	10847,	10855,	15079,	15098,
7326, 7704, 8328,	10892,	10895,	15116,	15124,
8329, 8330, 8587,	10900,	10904,	15132,	15146,
8588, 8589, 8614, 8615	10909,	11811,	15154,	15162,
\setbox . . . . . 403,	11824,	11836,	15182,	15201,
1454, 1456, 1457,	11848,	11861,	15212,	15231,
1513, 1900, 1906,	11982,	11984,	15237,	15245,
1915, 1960, 1961,	12006,	12008,	15252,	15260,
1992, 2037, 2042,	12117,	12120,	15266,	15274,
2053, 2107, 2109,	12127,	12202,	15281,	15289,
2111, 2113, 2118,	12244,	12271,	15299,	15310,
2129, 2144, 2149,	12300,	12329,	15326,	15335,
2158, 2173, 2211,	12353,	12367,	15354,	15362,
2213, 2215, 2217,	12380,	12394,	15377,	15393,
2223, 2286, 2303,	12500,	12540,	15403,	15652,
2320, 2338, 2354,	12565,	12593,	15680,	15683,
2370, 2481, 2501,	12621,	12644,	15696,	15716,
2505, 2544, 2549,	12657,	12669,	15719,	15733,
2579, 2588, 2956,	12682,	12788,	15784,	15825,
2959, 3361, 3370,	12830,	12857,	15830,	16185,
3378, 3747, 3995,	12886,	12915,	16200,	16215,
4014, 4309, 4527,	12939,	12953,	16235,	16426,
4984, 7750, 7806,	12966,	12980,	16435,	16439,
7809, 7850, 7853,	13087,	13129,	16463,	16477,
7894, 7897, 8956,	13156,	13185,	16547,	16554,
8967, 9173, 9187,	13214,	13238,	16555,	16571,
9813, 9840, 9845,	13252,	13265,	16596,	16603,
9877, 9912, 9941,	13279,	13386,	16604,	16620,
10098, 10099,	13428,	13455,	16671,	16683,
10103, 10106,	13484,	13513,	16717,	16719,
10116, 10120,	13537,	13551,	16730,	16755,
10123, 10127,	13564,	13578,	16780,	16789,
10137, 10140,	13685,	13727,	16796,	16797,
10141, 10155,	13754,	13783,	16842,	16843,
10172, 10188,	13812,	13836,	18208,	18217,
10200, 10203,	13850,	13863,	18276,	18281,
10204, 10218,	13877,	13984,	18284,	18293,
10231, 10247,	14026,	14053,	18345,	18377,
10272, 10273,	14082,	14111,	18383,	19159,
10277, 10309,	14135,	14149,	19162,	19163,



19185,	19190,	1039, 1071, 1115,	5081, 5082, 5083,
19200,	19218,	1289, 1321, 1365,	5141, 5150, 5151,
19223,	19259,	4625, 8006, 8025,	5154, 5156, 5159,
19262,	19263,	8044, 8076, 8326,	5160, 5162, 5165,
19285,	19290,	8838, 9116, 9331,	5231, 5241, 5242,
19300,	19318,	9363, 9508, 9540,	5243, 7243, 7270,
19323,	19354,	9627, 9662, 11390,	7271, 7272, 7273,
19435,	19451,	11423, 11485,	7294, 7300, 7301,
19953,	19967,	11520, 15557,	7334, 7337, 7341,
19970,	19989,	15590, 15885,	7387, 7439, 7440,
19990,	19996,	19031, 19735,	7941, 7942, 7943,
19997,	20008,	19756, 20503,	7944, 7950, 8192,
20010,	20012,	20535, 20579,	8485, 8486, 8487,
20014,	20017,	20642, 20674,	8488, 8489, 8490,
20019,	20021,	20720, 20924,	8491, 8492, 8494,
20023,	20033,	20964, 21111,	8495, 8497, 8500,
20035,	20044,	21146, 21511,	8501, 8502, 8503,
20046,	20061,	21724, 21797,	8720, 8721, 9239,
20063,	20071,	22251, 22464,	9261, 9416, 9438,
20073,	20082,	22558, 23024,	9702, 9717, 9988,
20163,	20164,	23237, 23323, 24392	10729, 10733,
20194,	20212,	<code>\setdefaultbibitems</code>	10735, 10738,
21366,	21376,	..... 25933	11146, 11291,
21387,	21394,	<code>\setdefaultmarginpar</code>	11306, 11944,
23735,	23783,	..... 26474	11947, 11961,
23824,	23874,	<code>\setDefaults</code> ..... 16958	15463, 15477,
23944,	25386,	<code>\setfloatalignment</code> 7378	16233, 16774,
25389,	25394,	<code>\setfootnoteLR</code> ... 16116	16882, 16883,
25398,	25402,	<code>\setfootnoteRL</code> ... 16114	16889, 16890,
25406,	25410,	<code>\setkeys</code> .. 1884, 1885,	16892, 16893,
25414,	25418,	1979, 1984, 1986,	16962, 16963,
25422,	25673,	1988, 2067, 2232,	16975, 16979,
25681,	25786,	2242, 2266, 2267,	16981, 16983,
25838,	25848,	2401, 2427, 2453,	16987, 16989,
25878,	25879,	2478, 9804, 9821,	18260, 19775,
26071,	26097,	11164, 11170,	20415, 20437,
26196,	26199,	11172, 16788,	20787, 20809,
26200,	26214,	16832, 16960,	21016, 21186,
26243,	26246,	19776, 19840,	21201, 21453,
26247,	26261,	21285, 21330, 25566	22192, 22965,
26290,	26292,	<code>\setlatin</code> ..... 4247	23990, 23991,
26306,	26308,	<code>\setlength</code> . 549, 566,	24039, 24040,
26319,	26363,	705, 729, 931, 949,	24042, 24416,
26366,	26407,	986, 987, 988, 989,	24420, 24421,
26410,	26438,	990, 1188, 1213,	24423, 24424,
26452, 26470, 26536		3214, 3229, 3274,	24426, 24427,
<code>\SetCaptionDefault</code>		3529, 4809, 4810,	24429, 24430,
..... 1875, 1877		4811, 5013, 5014,	24432, 24433,
<code>\setcaptionfont</code> ... 7298		5016, 5017, 5019,	24593, 24705,
<code>\setchapterpreamble</code>		5020, 5022, 5023,	25132, 25997, 26000
..... 22534, 23299		5025, 5026, 5028,	<code>\setLR</code> ..... 20170, 25897
<code>\setcitationfont</code> .. 7933		5029, 5031, 5032,	<code>\setLTR</code> ..... 20131,
<code>\setcounter</code> ... 474,		5033, 5038, 5039,	20132, 20145,
509, 787, 819, 863,		5077, 5078, 5080,	20170, 20171,





25855, 25856,	\SevenColumnFootnotes	12112, 12114,
25869, 25897, 25898	..... 13637	14843, 15368,
\setLTRbibitems .. 25932	\sevencolumnfootnotes	15381, 15420,
\setLTRcitationfont 7934	..... 13612	15428, 16251,
\setLTRmarginnotefont	\sf@size ..... 17929	16537, 16538,
..... 7931	\sfcode 93,306,627,759,	16549, 16551,
\setLTRmarginpar . 26473	1022, 1272, 2674,	16598, 16600,
\setLTRsidenotefont 7928	9294, 9482, 9794,	16654, 16659,
\setLTRtable ..... 4253	11355, 11629,	16722, 16733,
\setmarginnotefont 7930	15530, 17902,	16740, 16774,
\setnonlatin ..... 4248	19668, 20475,	19568, 20151,
\setparsizes ..... 20869, 21066,	20157, 26295,	26311, 26322, 26330
. 21568, 22308, 23081	21269, 21807,	\skip@ ..... 321, 322
\setRL ..... 20169, 25896	22568, 23333, 24082	\slideentry ..... 2692
\setRTL . 20130, 20133,	\sh@wgridXunit ... 20183	\sloppy ..... 42,
20145, 20169,	\sh@wgridYunit ... 20183	56, 72, 92, 255,
25508, 25548,	\shadowbox ..... 11260	269, 284, 305, 623,
25582, 25854,	\shadowsize .. 11270,	758, 1021, 1271,
25857, 25869, 25896	11274, 11275,	2670, 5250, 9293,
\setRTLbibitems .. 25931	11278, 11279, 11282	9481, 9790, 11354,
\setRTLCitationfont 7935	\shipout ..... 15855,	11625, 15529,
\setRTLmain ..... 4499	16694, 16704, 26494	16532, 17901,
\setRTLmarginnotefont	\shortauthors .. 115, 116, 121,	18362, 19667,
..... 7932	17961, 17962, 17967	20325, 20474,
\setRTLmarginpar . 26472	\shortcite ..... 19670	20868, 21062,
\setRTLSidenotefont 7929	\shorttitle .. 114, 115, 121,	21265, 21806,
\setRTLtable ..... 4252	17960, 17961, 17967	22567, 23332, 24078
\setsidenotefont .. 7927	\showbox ..... 16500	\slshape ..... 696,
\setSingleSpace ...	\showgridp@S ..... 20182	924, 1179, 5197,
..... 11890, 11895	\showoutput ..... 16500	9230, 9407, 10631,
\setSpace@Singlespace	\sidebarheight ....	10632, 10722,
... 8137, 8155, 8173	.... 2121, 2129,	10723, 10725,
\setthesection ... 19048	2139, 2152, 2158, 2168	20406, 20778, 20992
\settodepth ..... 19771	\sidecaptionsep 23682,	\small 451, 679, 778, 985,
\settoheight 11143, 19772	23683, 23690,	1030, 1238, 1280,
\settowidth .....	23694, 23700,	4651, 5111, 5201,
... 89, 302, 616,	23702, 23707, 23709	5206, 5236, 8467,
751, 1014, 1264,	\sidenote ..... 8003,	8468, 8533, 8541,
2660, 3407, 3411,	8057, 8095, 8190, 8281	8546, 8565, 9322,
3414, 5145, 9286,	\sidenotes ..... 8100	9499, 9604, 11369,
9474, 9783, 10731,	\sideways ..... 21392	11462, 15536,
11188, 11347,	\SixColumnFootnotes	20389, 20494,
11618, 15522,	..... 13338	20631, 20839,
17898, 19774,	\sixcolumnfootnotes	20891, 21088,
20467, 20861,	..... 13313	21543, 22283, 23056
21055, 21258,	\sixt@n ..... 4951, 4973	\smallcaps 8821, 8822, 8823
21790, 21868,	\size@chapter .... 20245	\smallskip .....
22551, 22629,	\skip ..... 4288, 4514,	.. 19589, 19594,
23316, 23394,	9044, 9045, 10840,	19601, 19610,
24071, 25351, 25353	10897, 11977,	19621, 19626,
\Setversedim .....	12001, 12084,	19631, 19638,
... 8851, 8855, 8881	12101, 12106,	19645, 19652, 20242
\SetWatermarkText 11061		\smallskipamount ..



...	3143, 3155, 3167				
\smash	...	7495, 7500,			
		7511, 7512, 7515,			
		7516, 7723, 10789,			
		10810, 16364,			
		20167, 25883, 25890			
\SOUL@apo	.....	23729			
\SOUL@comma	.....	23728			
\SOUL@do	.....	23731			
\SOUL@eventuallyexhyphen	.....	23718			
\SOUL@grave	.....	23730			
\SOUL@ignorespacesfalse	.....	23722			
\SOUL@lasttoken	..	23725			
\SOUL@lowerthan	..	23715			
\SOUL@minus	.....	23727			
\SOUL@postamble	..	23732			
\SOUL@preamble	..	23724			
\SOUL@soeventuallyskip	.....	23719			
\SOUL@spaceskip	..	23720			
\SOUL@start	.....	23713			
\SOUL@ulcolor	..	23744,			
		23750, 23756, 23764			
\SOUL@uldp	.....	23756			
\SOUL@uleveryspace		23758			
\SOUL@ulht	.....	23756			
\SOUL@ulleaders	...				
		. 23744, 23750, 23766			
\SOUL@uloverlap	..	23737			
\SOUL@ulunderline		23734			
\SOUL@word	.....	23726			
\soulomit	.....	23717			
\space	.....	4054,			
		4201, 4262, 4265,			
		4268, 4465, 4555,			
		4558, 4561, 6039,			
		6177, 6291, 6305,			
		6319, 6329, 7559,			
		7564, 7565, 7698,			
		7699, 9558, 9753,			
		10326, 10328,			
		10350, 10352,			
		11587, 15492,			
		16400, 16408,			
		16409, 16433,			
		16441, 18011,			
		18735, 19441,			
		19443, 19444,			
		19445, 19446,			
		20190, 21236,			
		21279, 21322,			
		21449, 21622,			
		21629, 21651,			
		21657, 21664,			
		21812, 22188,			
		22362, 22369,			
		22391, 22397,			
		22404, 22573,			
		22961, 23135,			
		23142, 23164,			
		23170, 23177,			
		23338, 23894,			
		23896, 23953,			
		24833, 24835,			
		25470, 26161, 26443			
\spacefactor	...	8116,			
		8121, 8127, 8130			
\spaceskip	..	23762, 23767			
\special	..	4310, 4399,			
		4410, 4423, 4436,			
		4528, 4565, 4614,			
		20164, 20222,			
		20224, 20227,			
		20229, 20233,			
		20235, 23950,			
		23951, 23955,			
		23956, 23958, 25879			
\spinemargin	..	11074,			
		11076, 11080, 11084			
\split@prev	.....				
		. 16073, 16081, 16086			
\splitbotmark	....	16437			
\splitfirstmark	...				
		.. 10144, 10207,			
		15686, 15722,			
		16436, 16558,			
		16607, 19166,			
		19266, 26203, 26250			
\SplitFootnoteRule	.....	4123, 16072			
\splitfootnoterule	.....	16076, 16084			
\splitmaxdepth	....				
		.. 40, 54, 70, 253,			
		267, 282, 10138,			
		10201, 11966,			
		15681, 15717,			
		16128, 16145,			
		16161, 16552,			
		16601, 19160,			
		19260, 26197, 26244			
\splittopskip	...	40,			
		54, 70, 253, 267,			
		282, 11965, 12118,			
		12121, 12410,			
		12411, 12416,			
		12417, 12421,			
		12422, 12426,			
		12427, 12697,			
		12698, 12703,			
		12704, 12708,			
		12709, 12713,			
		12714, 12996,			
		12997, 13002,			
		13003, 13007,			
		13008, 13012,			
		13013, 13295,			
		13296, 13301,			
		13302, 13306,			
		13307, 13311,			
		13312, 13594,			
		13595, 13600,			
		13601, 13605,			
		13606, 13610,			
		13611, 13893,			
		13894, 13899,			
		13900, 13904,			
		13905, 13909,			
		13910, 14192,			
		14193, 14198,			
		14199, 14203,			
		14204, 14208,			
		14209, 14491,			
		14492, 14497,			
		14498, 14502,			
		14503, 14507,			
		14508, 14790,			
		14791, 14796,			
		14797, 14801,			
		14802, 14806,			
		14807, 16127,			
		16144, 16160,			
		16431, 16432, 19963			
\stepcounter	...	2405,			
		2431, 2457, 6347,			
		6353, 6361, 6367,			
		8014, 8033, 8052,			
		8084, 8204, 8233,			
		8262, 9014, 15884,			
		15955, 16024,			
		16094, 16103,			
		17625, 18175,			
		19730, 19734,			
		19751, 19755,			
		21276, 21319,			
		21843, 21844,			
		22604, 22605,			
		23369, 23370, 26566			
\stopbreaks	.....	11648			
\str	.....	6837, 6838,			



18447,	18498,	22622,	22623,	15180,	18376,
18570,	18588,	22686,	22687,	21912,	21941,
18650,	18674,	22690,	22691,	21953,	21964,
18679,	18753,	22961,	23135,	21973,	22673,
18784,	18797,	23136,	23142,	22702,	22714,
18819,	18873,	23143,	23164,	22725,	22734,
		23170,	23171,	23438,	23467,
<code>\stretch</code>	..... 1515,	23177,	23178,	23479,	23490,
	1518, 9914, 9917	23338,	23340,	23499,	24001, 24006
<code>\string</code>	369, 609, 1425,	23346,	23378,	<code>\strutbox</code>	40, 54, 70, 253,
	4146, 4150, 5293,	23379,	23387,		267, 282, 401, 405,
	5329, 5335, 5407,	23388,	23451,		2299, 2316, 2333,
	5409, 5421, 5422,	23452,	23455,		2349, 2365, 2381,
	5425, 5426, 5436,	23456,	23920,		10407, 11720,
	5437, 5440, 5441,	25469,	25726,		11726, 11732,
	5444, 5445, 5448,	25773, 26161, 26181			11966, 12410,
	5449, 5632, 5652,	<code>\strip@prefix</code>	. 6082, 6095		12416, 12421,
	5680, 5706, 5734,	<code>\strip@pt</code>	..... 2535,		12426, 12697,
	5760, 5763, 5797,		5543, 5857, 11010,		12703, 12708,
	5800, 5884, 5885,		11013, 11018,		12713, 12996,
	5891, 6039, 6061,		11021, 14881,		13002, 13007,
	6082, 6085, 6112,		14934, 14986, 15037		13012, 13295,
	6114, 6177, 6250,	<code>\stripsep</code>	10189, 10248,		13301, 13306,
	6297, 6298, 6311,		10264, 10271,		13311, 13594,
	6312, 6323, 6324,		10491, 10503,		13600, 13605,
	6335, 6336, 6367,		10517, 19194,		13610, 13893,
	6381, 6382, 6383,		19196, 19203,		13899, 13904,
	6384, 6388, 7698,		19294, 19296,		13909, 14192,
	7699, 9950, 9953,		19303, 19365,		14198, 14203,
	9971, 9974, 12023,		19368, 19370, 19377		14208, 14491,
	15667, 15669,	<code>\strut</code>	. 46, 60, 76, 259,		14497, 14502,
	15672, 15674,		273, 288, 3104,		14507, 14790,
	16404, 16405,		3429, 3433, 3439,		14796, 14801,
	16406, 16407,		3442, 3451, 3453,		14806, 14888,
	16408, 16530,		3458, 3459, 3461,		14941, 14993,
	16864, 16865,		3462, 3604, 3606,		15044, 16128,
	20335, 20336,		3751, 3753, 3847,		16135, 16145,
	21449, 21622,		3849, 3851, 3942,		16152, 16161,
	21623, 21629,		3944, 3946, 4726,		16168, 16196,
	21630, 21651,		11656, 12292,		16211, 16226,
	21657, 21658,		12295, 12298,		18194, 18210,
	21664, 21665,		12585, 12588,		18247, 18378,
	21812, 21814,		12591, 12878,		21893, 21895,
	21820, 21852,		12881, 12884,		21989, 21991,
	21853, 21861,		13177, 13180,		22654, 22656,
	21862, 21925,		13183, 13476,		22750, 22752,
	21926, 21929,		13479, 13482,		23419, 23421,
	21930, 22188,		13775, 13778,		23515, 23517,
	22362, 22363,		13781, 14074,		23784, 23785,
	22369, 22370,		14077, 14080,		23820, 26098, 26099
	22391, 22397,		14373, 14376,	<code>\subfig@oldlabel</code>	..
	22398, 22404,		14379, 14672,		..... 7429, 7431
	22405, 22573,		14675, 14678,	<code>\subfigure</code>	... 7428, 7435
	22575, 22581,		15172, 15176,	<code>\subitem</code>	.....
	22613, 22614,				



108, 238, 8576, 17918	<code>\Telefon</code> . . . . . 5091	5141, 5150, 5151,
<code>\subjclass</code> . . . . . 334	<code>\TenColumnFootnotes</code>	5163, 5165, 7337,
<code>\subject</code> . . . . .	. . . . . 14534	7341, 7440, 7741,
. 21748, 22488, 23261	<code>\tencolumnfootnotes</code>	7742, 8882, 10156,
<code>\subparagraph</code> . . . . .	. . . . . 14509	10164, 10219,
. . . 8378, 8379, 8382	<code>\TeX</code> . . . . . 17791, 20146,	10412, 10452,
<code>\subsection</code> . . . . .	20147, 20168,	10462, 10642,
. . . 5176, 8349, 8365	25870, 25871, 25884	10657, 10729,
<code>\subsectioncolour</code> .	<code>\textbf</code> . . . . .	10738, 10852,
. . . 5102, 10596,	5204, 8522, 16377,	11073, 11083,
10604, 10611,	16379, 16381, 16383	11089, 11119,
10618, 10625,	<code>\textbullet</code> 3296, 5088,	15696, 15702,
10695, 10701,	10588, 10652, 10686	15734, 15825,
10707, 10713, 10719	<code>\textcolor</code> . . . . .	15830, 16238,
<code>\subsectionfont</code> 5110,	. . 11259, 11274,	16572, 16621,
5118, 10634, 10727	11278, 11281, 16367	16629, 16910,
<code>\subsectionstyle</code> ..	<code>\textdef@</code> . . . . . 355	16913, 16918,
. . . . . 5118, 5177	<code>\textdir</code> . . . . . 18913	16924, 18350,
<code>\subsubitem</code> . . . . .	<code>\textendash</code> 784, 1036,	19224, 19232,
109, 239, 8577, 17919	1099, 1286, 9328,	19324, 19355,
<code>\subsubsection</code> . . . . .	9505, 20500, 20639	19515, 19550,
. . . 8369, 8370, 8373	<code>\textheight</code> 4599, 5052,	19551, 19554,
<code>\subtable</code> . . . . . 7435	10172, 10231,	19555, 19558,
<code>\supereject</code> . . . . . 4579	16540, 16962,	19559, 19563,
<code>\switchlinenumbers</code>	21284, 21329,	19566, 21527,
. . . . . 18055,	21529, 21534,	21537, 21570,
18057, 18062, 18064	21535, 21536,	21610, 21614,
<code>\symbol</code> . . . . . 4739, 4749	22269, 22274,	22267, 22277,
<code>\sys</code> . . . . . 18668	22275, 22276,	22310, 22350,
	23042, 23047,	22354, 23040,
	23048, 23049, 26565	23050, 23083,
<b>T</b>	<code>\textit</code> . . . . . 24452	23123, 23127,
<code>\t@cb@bchapsec</code> . . . 24063	<code>\textsf</code> . . . . . 4335	26215, 26223,
<code>\tabcaption</code> 17011, 17029	<code>\textsl</code> .. 7582, 7583, 7584	26262, 26540, 26556
<code>\tabcolsep</code> 391, 1397,	<code>\textsuperscript</code> ..	<code>\textwidth@footnoterule</code>
18205, 20756, 25903	. . . 8129, 11940,	. . . . . 454,
<code>\tablinesep</code> . . . . . 23817	11941, 11942,	781, 1033, 1283,
<code>\tabskip</code> .. 418, 9024,	21485, 22225, 22998	9325, 9502, 9607,
18219, 18220,	<code>\texttt</code> . . . . . 4749,	11372, 11465,
23790, 23828, 26104	4813, 4815, 4816, 6370	15539, 16043,
<code>\tabular</code> . . . . . 23889	<code>\textwidth</code> 1858, 1884,	16054, 19565,
<code>\tabularnewline</code> 427,	1979, 2036, 2037,	20497, 20634,
18189, 23792, 26106	2052, 2053, 2126,	20894, 21091,
<code>\tabularx</code> . . . . . 23880	2149, 2156, 2198,	21546, 22286, 23059
<code>\tabularxcolumn</code> .. 23842	2199, 2200, 2249,	<code>\textwidthfootnoterule</code>
<code>\tagform@</code> . . . . . 346	2253, 2257, 2289,	. . . . . 4124,
<code>\tamark</code> . . . . . 19014	2306, 2323, 3032,	10780, 11708,
<code>\tbl</code> . 407, 410, 416, 436, 438	3039, 3056, 3062,	16052, 16767, 26593
<code>\tcb@icolorbox</code> .. 23978	3068, 3215, 3218,	<code>\TeXeTOff</code> . 20079, 25784
<code>\tcb@vbox</code> . . . . . 23965	3220, 3341, 3358,	<code>\TeXeTOn</code> . . . . 20078,
<code>\tcd</code> .. 19960, 19967, 19968	3360, 3364, 3368,	20080, 25783, 25785
<code>\tcdsav</code> . . . . . 19960	3373, 3376, 3381,	<code>\TeXeTstate</code> .. 20078,
<code>\tcl</code> .. 19984, 19985, 19991	3384, 3743, 4297,	20079, 25783, 25784
<code>\tcn</code> 19968, 19969, 19991,	4303, 4598, 5050,	<code>\TF@conlab</code> . . . . .
19992, 19993, 19994		



. 16360, 16362, 16369	2968, 2974, 2976,	15953,	15967,
\TF@savecolor 16366, 16371	2977, 2978, 2980,	15968,	15971,
\TF@Title ..... 16369	2981, 2982, 2990,	15972,	15975,
\thanklessauthor ..	2992, 2993, 2994,	16028,	16032,
..... 8630,	2996, 2997, 2998,	16086,	16262,
8663, 8666, 8703	3324, 3425, 3427,	16276,	16393,
\thanklesspublisher	3428, 3429, 3431,	16400,	16404,
..... 8631,	3432, 3433, 3438,	16405,	16406,
8690, 8693, 8707	3439, 3441, 3442,	16407,	16408,
\thanklesstitle 8629,	3448, 3449, 3451,	16409,	16417,
8646, 8649, 8705	3453, 3458, 3459,	16423,	16430,
\thanks ..... 333,	3461, 3462, 4215,	16431,	16433,
455, 475, 510, 529,	4321, 4479, 4539,	16438,	16440,
782, 794, 820, 831,	4590, 4592, 4595,	16441,	16455,
832, 841, 864, 881,	4597, 4882, 4884,	16481,	16511,
1034, 1046, 1072,	4887, 4890, 4895,	16512,	16513,
1083, 1084, 1093,	4898, 4901, 5006,	16518,	16519,
1116, 1133, 1284,	5342, 5344, 5345,	16520,	16530,
1296, 1322, 1333,	5366, 5368, 5369,	16557,	16559,
1334, 1343, 1366,	6054, 6383, 6478,	16606,	16608,
1384, 4626, 8629,	6533, 6561, 6563,	16834,	16879,
8630, 8631, 8632,	6570, 6572, 6574,	17412,	17420,
8635, 8642, 8643,	6576, 6577, 6578,	17421,	17427,
8659, 8660, 8675,	6589, 6596, 6598,	17429,	17458,
8676, 8687, 9326,	6603, 6607, 6608,	17459,	17465,
9338, 9364, 9503,	6613, 6618, 6626,	17467,	17498,
9515, 9541, 9608,	6629, 6633, 6639,	17500,	17529,
9628, 9663, 9682,	6723, 6724, 6725,	17531,	17560,
11373, 11391,	6750, 7971, 7981,	17562,	17970,
11424, 11441,	8116, 8127, 8933,	17971,	18264,
11466, 11486,	8940, 9064, 9067,	18267,	18863,
11521, 11540,	9070, 9074, 9077,	19165,	19167,
15540, 15558,	9080, 9185, 9800,	19178,	19195,
15591, 15608,	9805, 9849, 9910,	19202,	19208,
19001, 20498,	10143, 10145,	19265,	19267,
20510, 20536,	10206, 10208,	19278,	19295,
20547, 20548,	10288, 10308,	19302,	19308,
20557, 20580,	10314, 10318,	19378,	19441,
20597, 20635,	10325, 10326,	19443,	19444,
20649, 20675,	10327, 10328,	19445,	19446,
20688, 20689,	10329, 10330,	19447,	19661,
20698, 20721,	10350, 10352,	19839,	19855,
20741, 20895,	10361, 10365,	19859,	19862,
20925, 20965,	10388, 10389,	19887,	19911,
20983, 21092,	10390, 10392,	19918,	19925,
21112, 21147,	10393, 10394,	20085,	20086,
21166, 21547,	10395, 10428,	21292,	21302,
21726, 22287,	10492, 10504,	21311,	21338,
22466, 23060, 23239	10516, 11979,	21350,	21360,
\thankses ..... 333	12003, 14892,	21517,	21518,
\the ... 124, 125, 1413,	14945, 14997,	21519,	21797,
1507, 1508, 1510,	15048, 15318,	22257,	22258,
1511, 2073, 2075,	15685, 15687,	22259,	22558,
2081, 2083, 2477,	15721, 15723,	23030,	23031,



23032,	23323,	19051,	19052,	11405,	11502,
23813,	23814,	19702,	20248,	15572,	17312,
23844,	23863,	20479,	20485,	20502,	20561,
23865,	23889,	20487,	20489,	20641,	20702,
23894,	23896,	20844,	20850,	20898,	20941,
23897,	23900,	20852,	20854,	21128,	21550,
23901,	23904,	21039,	21041,	21671,	22290,
23907,	23908,	21043,	21044,	22411,	23063, 23184
23911,	24019,	21221,	21223,	\theftnotemark ..	
24761,	24831,	21225,	21226,	. 21485, 22225, 22998	
24834,	24836,	21227,	21236,	\theHchapter . . . . . 19702	
24922,	25252,	22501,	22503,	\theHsection 19710, 19712	
25255,	25256,	22516,	22519,	\theindex . 98, 228, 17908	
25258,	25260,	22523,	22525,	\thelstlisting 18140,	
25264,	25269,	23273,	23285,	18145, 18168, 18171	
25273,	25284,	23288, 23291,	24106	\thempfn . . . . .	
25285,	25288,	\thecontentspage ..		2395, 2421, 2447,	
25294,	25298,	. . . . . 8396,		4907, 4915, 4923,	
25306,	25307,	8403, 8410, 8417, 8424		8205, 8211, 8234,	
25344,	25360,	\thedate . 8625, 8633, 8679		8240, 8263, 8269,	
25364,	25463,	\theenumiv . . . . . 86,		9085, 9092, 9099,	
25626,	25638,	89, 299, 302,		16095, 16100,	
25643,	25664,	622, 757, 1020,		16104, 16109,	
25665,	25667,	1270, 2668, 5249,		16240, 16266,	
25789,	25790,	9292, 9480, 9789,		16271, 16281,	
25944,	26001,	11353, 11624,		16286, 17279,	
26167,	26169,	15528, 17895,		17290, 17301,	
26181,	26202,	17898, 20473,		17431, 17469,	
26204, 26249, 26251		20867, 21061,		17502, 17533,	
\the@cornersize ..		21264, 21804,		17564, 17626, 18408	
. . . . . 15644, 15645		22565, 23330, 24077		\thempfootnote . . . . .	
\thealgocf . . . . . 168		\theequation . . . . .		. . . . . 16240, 18408	
\theAlgoLine . . . . . 198		9314, 9491, 9736,		\theorem@indent 19744,	
\theBackrefHyperFootnoteCounter		11570, 15627,		19745, 19764, 19765	
. . . . . 16296, 16302		15918, 15931,		\theorem@prework . 19738	
\thechapter . . . 318,		17980, 19049,		\theorem@postskipamount	
8338, 9309, 9315,		20484, 20853,		. . . . . 19739, 19759	
9317, 9319, 9486,		21038, 21220,		\theorem@preskipamount	
9492, 9494, 9496,		22521, 23290, 26586		. . . . . 19742, 19762	
9558, 9737, 9739,		\thefigure . . . . . 9316,		\thepage . . . . .	
9741, 9742, 9743,		9493, 9738, 11572,		4588, 4593, 5226,	
9753, 11571,		15629, 15920,		7470, 7582, 7583,	
11573, 11575,		15933, 19051,		7584, 7593, 7594,	
11576, 11577,		20486, 20849,		8809, 8810, 8821,	
11587, 15492,		21040, 21222,		8822, 8823, 10529,	
15622, 15628,		22516, 23285, 23800		10547, 25670, 26443	
15630, 15632,		\thefootdir@label .		\theparagraph . . . 21,	
15919, 15921,		. . 15953, 15956,		22, 226, 227, 586,	
15923, 15924,		15984, 15989,		587, 743, 744,	
15925, 15932,		16007, 16010, 16030		997, 998, 1256,	
15934, 15936,		\thefootnote 491, 786,		1257, 8359, 9312,	
15937, 15938,		845, 1038, 1097,		9313, 9489, 9490,	
18169, 19039,		1288, 1347, 4617,		9746, 9747, 11457,	
19048, 19050,		9330, 9507, 9644,		11458, 11580,	



11581,	15625,	15927,	15939,	20367,	20577,
15626,	15928,	15940,	17952,	20622,	20718,
15929,	15941,	17953,	19040,	20962,	21082,
15942,	17954,	19043,	20480,	21144,	21720,
17955,	19044,	20481,	20845,	22460,	23233, 24138
19047,	20482,	20846,	21045,	\thm@topsepadd	19739,
20483,	20847,	21046,	21228,	19740,	19743,
20848,	21047,	21229,	21760,	19759,	19760, 19763
21048,	21230,	21762,	22507,	\thr@@ .	366, 382, 1422,
21231,	21764,	22509,	23276, 23278	1440,	1464, 1473,
21766,	22511,	\thesubsubsection	20,	12698,	12704,
22513,	23280, 23282	21,	225, 226,	12709,	12714,
\thepart . . . . .	591,	585,	586, 742,	23720,	23917, 23937
599,	11317, 11325	743,	996, 997,	\ThreeColumnFootnotes	
\ther@tfl@t . .	21277,	1255,	1256, 9311,	.....	12453
21278,	21320, 21321	9312,	9488, 9489,	\threecolumnfootnotes	
\thesecion . . . . .	19,	9745,	9746, 11456,	.....	12428
224,	584, 741,	11457,	11579,	\time	4325, 4329, 4544, 4548
995,	1254, 8345,	11580,	15624,	\tiny . . . . .	4665, 8107, 8479
9309,	9310, 9486,	15625,	15927,	\title . .	330, 483, 519,
9487,	9743, 9744,	15928,	15940,	826,	871, 1078,
11455,	11577,	15941,	17953,	1123,	1328, 1373,
11578,	15622,	17954,	19042,	4633,	5128, 5167,
15623,	15925,	19045,	20481,	8624,	8639, 9370,
15926,	15938,	20482,	20846,	9547,	9636, 9672,
15939,	17952,	20847,	21046,	11397,	11431,
19039,	19041,	21047,	21229,	11494,	11530,
19710,	19712,	21230,	21761,	15564,	15598,
20479,	20480,	21764,	22508,	20542,	20587,
20844,	20845,	22511,	23277, 23280	20683,	20730,
21044,	21045,	\thetable . . . . .	9318,	20933,	20974,
21227,	21228,	9495,	9740, 11574,	21120,	21156,
21760,	22499,	15631,	15922,	21745,	22485, 23258
22507,	23272, 23276	15935,	19052,	\TitleBarFrame . . . . .	
\thesubparagraph	22,	20488,	20851,	..	16358, 16377,
227,	587, 744,	21042,	21224,	16379,	16381, 16383
998,	1257, 9313,	22519,	23288, 23801	\titlecolour .	5097, 10689
9490,	9747, 11458,	\TheTokenList . . . . .	6587	\titlecontents .	8391,
11581,	15626,	\thinlines . . .	10002,	8398,	8405, 8412, 8419
15929,	15942,	10012,	10025,	\TitleFont . . . . .	775,
17955,	19046,	10035,	10048,	791,	882, 884, 890,
20483,	20848,	10058,	10071, 10081	1027,	1043, 1134,
21048,	21231,	\thispagestyle . . . . .		1136,	1142, 1277,
21765,	22512, 23281	.....	101, 113,	1293,	1385, 1387,
\thesubsection . .	19,	231,	507, 642, 657,	1393,	1396, 1397,
20,	224, 225, 584,	861,	906, 1113,	1402,	9335, 9512,
585,	741, 742,	1158,	1363, 8710,	20491,	20507,
995,	996, 1254,	8732,	8753, 9209,	20598,	20600,
1255,	8352, 9310,	9386,	9597, 9660,	20606,	20628,
9311,	9487, 9488,	11421,	11518,	20646,	20744,
9744,	9745, 11455,	11635,	11638,	20746,	20752,
11456,	11578,	15588,	17911,	20755,	20756, 20761
11579,	15623,	17959,	17983,	\titlefont . . . . .	
15624,	15926,	17986,	19029,	..	5106, 5114, 10722



<code>\titleformat</code> ... 8335, 8342, 8349, 8356	18668, 18677, 18680, 18681, 18682, 18683, 18684, 18685, 18687, 18693, 18698, 18701, 18702, 18715, 18717, 18718, 18719, 18720, 18721, 18722, 18723, 18732, 18735, 18739, 18740, 18741, 18744, 18758, 18764, 18777, 18782, 18786, 18807, 18815, 18816, 18841, 18845, 18846, 18847, 18860, 18932, 18933, 18941, 18942, 18943, 18944, 18954, 18955, 18956, 18961, 18966, 18968, 18971, 18972, 18977, 18978, 18983, 18995, 18996	..... 25464
<code>\titlehead</code> .....		<code>\tocstyle@activate@features</code> ..... 25241
<code>\titlepage</code> .... 668, 975, 1227, 9275, 9463, 20378, 20828		<code>\tocstyle@dottedtocline</code> ..... 25228
<code>\titlepage@restore</code> .. 21515, 21521, 21541, 21643, 21670, 22255, 22261, 22281, 22383, 22410, 23028, 23034, 23054, 23156, 23183		<code>\tocstyle@feature@dothook</code> ..... 25327
<code>\titlepagestyle</code> ... . 21720, 22460, 23233		<code>\tocstyle@feature@entryhook</code> ..... 25323
<code>\titlespacing</code> .....		<code>\tocstyle@feature@entryvskip</code> ..... 25242, 25245
<code>\titlestyle</code> . 5114, 10753		<code>\tocstyle@feature@leaders</code> ..... 25325, 25330
<code>\tl</code> .....		<code>\tocstyle@feature@pagenumberbox</code> ..... 25333, 25336
6940, 6944, 6947, 18430, 18438, 18443, 18445, 18446, 18447, 18448, 18450, 18451, 18453, 18456, 18460, 18469, 18473, 18476, 18481, 18486, 18494, 18496, 18497, 18498, 18499, 18501, 18503, 18505, 18506, 18508, 18514, 18518, 18521, 18522, 18525, 18532, 18537, 18545, 18548, 18549, 18550, 18551, 18552, 18555, 18561, 18562, 18563, 18568, 18570, 18577, 18581, 18586, 18588, 18590, 18592, 18611, 18617, 18618, 18619, 18620, 18621, 18633, 18636, 18639, 18641, 18665, 18666,	<code>\tmpcount</code> .... 6777, 6803 <code>\toaddress</code> . 11644, 17992 <code>\toc@headstar</code> 24128, 24133 <code>\tocbasic@DependOnPenaltyAndTOCLevel</code> ..... 24732 <code>\tocbasic@SetPenaltyByTOCLevel</code> ..... 24860 <code>\TOCEntryStyleStartInitCode</code> .. 22041, 22054, 22072, 22803, 22816, 22835, 23568, 23581, 23600 <code>\toclevel@subfigure</code> ..... 24342 <code>\toclevel@subtable</code> 24362 <code>\TOCLineLeaderFill</code> ..... 22058, 22074, 22820, 22837, 23585, 23602, 24882, 25173 <code>\tocstyle@@numberline</code> ..... 25351, 25353, 25371, 25373, 25376, 25378 <code>\tocstyle@activate@all@l</code>	<code>\tocstyle@feature@pagenumberhook</code> ..... 25334, 25336 <code>\tocstyle@feature@parfillskip</code> ..... 25313, 25314 <code>\tocstyle@feature@raggedhook</code> ..... 25249 <code>\tocstyle@feature@spaceafternumber</code> ..... 25350, 25354, 25375, 25379 <code>\tocstyle@indentstyle</code> ..... 25300, 25370 <code>\tocstyle@l@define</code> .. 25387, 25390, 25395, 25399, 25403, 25407, 25411, 25415, 25419, 25423, 25455 <code>\tocstyle@macrochangewarning</code> ..... 25443, 25450 <code>\tocstyle@numberline</code> ..... 25229, 25348 <code>\tocstyle@saved@dottedtocline</code> ..... 25445 <code>\tocstyle@saved@numberline</code> ..... 25453 <code>\tocstyledepth</code> 25240, 25252, 25264, 25284, 25285, 25288, 25306, 25307, 25356, 25358, 25360, 25364 <code>\tocstyleTOC</code> .....





25284, 25285,	19989, 19990,	4739, 4740, 4741,
25288, 25290,	20053, 20054,	4742, 4743, 4744, 4745
25292, 25293,	20055, 20056,	\ttl@a . . . . . 24024, 24026
25297, 25302,	20060, 20061, 20065	\ttl@b . . . . . 24019,
25303, 25306,	\topins . . . . . 20148	24020, 24024, 24026
25307, 25356,	\topmargin . . . . 4603,	\ttl@beginlongest 23994
25358, 25359, 25363	5051, 11115,	\ttl@calc . . 23989, 24001
\today . . . 4335, 4552, 8633	15869, 21524,	\ttl@changecentercr
\toks . . . . . 122,	22264, 23037, 26532	. . . . . 23993
124, 1507, 1508,	\topmark . . . . . 10142,	\ttl@contentsstretch
1510, 1511, 7964,	10151, 10205,	. . . . . 24031
7965, 7971, 9910,	10214, 15684,	\ttl@corr . . . . .
16436, 16437,	15693, 15720,	. 24046, 24047, 24050
16438, 17968, 17970	15729, 16556,	\ttl@endlongest . . 24009
\toks@ . . . . . 121,	16565, 16605,	\ttl@filleft 23983, 24012
125, 4308, 4321,	16614, 19164,	\ttl@filright 23984, 24013
4526, 4539, 10142,	19173, 19264,	\ttl@glcmds . . . . . 23996
10143, 10144,	19273, 26201,	\ttl@hmode@error . 23995
10145, 10205,	26210, 26248, 26257	\ttl@leaders . . . . . 24048
10206, 10207,	\topsep 2665, 4791, 4800,	\ttl@lselect 24055, 24058
10208, 15684,	5241, 7263, 8473,	\ttl@makeline 23989, 24044
15685, 15686,	8515, 19061, 19063	\ttl@margin 24043, 24049
15687, 15720,	\topskip . . . . . 311,	\ttl@midlongest . . 24008
15721, 15722,	4611, 10306,	\ttl@outnoblock . . 24022
15723, 16556,	16442, 16444,	\ttl@savel@chapter 24057
16557, 16558,	16449, 19067,	\ttl@savel@part . . 24054
16559, 16605,	19358, 24104,	\ttlh@hang . . . . . 23988
16606, 16607,	24110, 24115,	\turn . . . . . 21364
16608, 16831,	24122, 24127, 24132	\turnbox . . . . . 21385
16834, 16868,	\TOTALHEIGHT 23949, 23953	\tw@ 365, 373, 1421, 1429,
16870, 16874,	\totalheight . . . . . 16861	1463, 1467, 1472,
16876, 16879,	\tovalue . . . . .	4963, 5885, 12411,
17409, 17412,	6661, 6748, 6756,	12417, 12422,
17967, 17971,	6787, 6800, 6806, 6807	12427, 15649,
19164, 19165,	\tracingmacros . . . . 6776	15650, 16435,
19166, 19167,	\traditionalcnverses	16439, 16440,
19264, 19265,	. . . 8871, 8894, 8910	16454, 16458,
19266, 19267,	\traditionalhalfverses	16463, 16466,
23863, 23883,	. . . . . 8860,	16477, 16481,
23889, 26201,	8864, 8871, 8904	16482, 16483,
26202, 26203,	\traditionalpoem . . 9106	16484, 16487,
26204, 26248,	\traditionalpoem@cr	16786, 16787,
26249, 26250, 26251	. . . 8984, 9033, 9034	16797, 16799,
\tolerance . . . . .	\traditionalpoem@obeylines	16800, 16802,
. . 12288, 12581,	. . . . . 8914, 9106	16803, 16806,
12874, 13173,	\traditionalpoem@par	16808, 16809,
13472, 13771,	. . . 8914, 8915, 9033	16843, 16845,
14070, 14369, 14668	\trimb . . . . . 7966, 7973	16846, 16848,
\toname . . . . 11644, 17992	\trimc . . . . . 7975	16849, 16852,
\topheight . . . . .	\trivlist . . . . .	16854, 16855,
. . 19972, 19974,	. 15775, 19741, 19761	19451, 19458,
19975, 19976,	\ttdefault . 10628, 10720	19459, 19467,
19978, 19984,	\ttfamily . . . . .	19468, 19473,
19986, 19988,	4651, 4736, 4737,	19474, 19487,





9454, 9460, 20388,	9846, 9847, 10103,	14326, 14353,
20399, 20400,	10106, 10123,	14388, 14417,
20402, 20453,	10127, 10140,	14435, 14449,
20459, 20771,	10190, 10203,	14462, 14476,
20772, 20774,	10249, 10274,	14589, 14625,
20838, 20876, 20882	10289, 10312,	14652, 14687,
<code>\unitlength</code> . . . . .	10316, 10406,	14716, 14734,
.. 10002, 10012,	10435, 10489,	14748, 14761,
10025, 10035,	10500, 10513,	14775, 14809,
10048, 10058,	10563, 10794,	15086, 15125,
10071, 10081, 19775	10797, 10798,	15155, 15189,
<code>\unkern</code> 8128, 10276, 10286	10815, 10818,	15219, 15238,
<code>\unpenalty</code> . . . . 9835,	10819, 10844,	15253, 15267,
10276, 10286,	10851, 10856,	15282, 15296,
14814, 14829, 16466	10861, 10901,	15307, 15323,
<code>\unrestored@protected@xdef</code>	10906, 10910,	15332, 15357,
..... 2412,	10915, 11812,	15365, 15372,
2438, 2464, 4907,	11825, 11837,	15379, 15385,
4915, 4923, 8211,	11849, 11862,	15423, 16186,
8240, 8269, 9085,	11954, 11985,	16201, 16216,
9092, 9099, 16100,	12009, 12087,	16254, 16259,
16109, 16271,	12092, 12128,	16429, 16439,
16286, 17279,	12209, 12245,	16466, 16554,
17290, 17301, 17312	12272, 12307,	16603, 16675,
<code>\unsetfootnoteRL</code> ..	12336, 12354,	16677, 16721,
..... 16115, 16116	12368, 12381,	16726, 16732,
<code>\unsetLTR</code> .. 20133, 25857	12395, 12507,	16736, 16743,
<code>\unsetRL</code> ... 20171, 25898	12541, 12566,	16759, 18276,
<code>\unsetRTL</code> .. 20132, 25856	12600, 12628,	18281, 18290,
<code>\unskip</code> . . . . . 46, 60,	12645, 12658,	18293, 18383,
76, 259, 273, 288,	12670, 12683,	18401, 19162,
346, 1489, 1490,	12795, 12831,	19191, 19193,
1491, 2250, 2656,	12858, 12893,	19201, 19219,
2677, 7520, 7523,	12922, 12940,	19221, 19262,
7526, 7529, 8219,	12954, 12967,	19291, 19293,
8248, 8277, 8966,	12981, 13094,	19301, 19319,
8977, 9832, 10140,	13130, 13157,	19321, 19376,
10203, 10276,	13192, 13221,	20010, 20014,
10286, 12080,	13239, 13253,	20019, 20023,
14812, 14813,	13266, 13280,	20035, 20046,
16249, 16554,	13393, 13429,	20066, 20069,
16603, 18335,	13456, 13491,	20074, 20148,
18377, 18380,	13520, 13538,	20149, 20153,
19162, 19262,	13552, 13565,	20158, 26008,
21369, 21379,	13579, 13692,	26199, 26246,
21397, 21914,	13728, 13755,	26294, 26299,
22675, 23440,	13790, 13819,	26310, 26314,
26199, 26246, 26475	13837, 13851,	26321, 26326, 26333
<code>\untilcondition</code> 6662,	13864, 13878,	<code>\unvcopy</code> 10275, 10313,
6676, 6760, 6803	13991, 14027,	10317, 10345,
<code>\unvbox</code> . . . . . 2291,	14054, 14089,	10351, 10355,
2308, 2325, 2339,	14118, 14136,	10363, 10838, 10895
2355, 2371, 2505,	14150, 14163,	<code>\uppercase</code> . . . . 318,
2561, 2574, 2581,	14177, 14290,	811, 831, 1063,



1083, 1313, 1333,	2855, 2856, 2889,	17148, 17150,
9355, 9532, 20527,	2906, 2912, 2921,	17151, 17157,
20547, 20666, 20688	2927, 2936, 2942,	17158, 17161,
<code>\uppercasenonmath</code> .	2950, 3034, 3040,	17162, 17166,
..... 114, 17960	3057, 3063, 3069,	17167, 17170,
<code>\uppermargin</code> ..... 11087	3109, 3110, 3116,	17171, 17174,
<code>\uppertitleback</code> ...	3122, 3128, 3137,	17175, 17178,
.. 21622, 21657,	3149, 3161, 3199,	17179, 17186,
21750, 22362,	3205, 3259, 3273,	17188, 17192,
22397, 22490,	3330, 3344, 3351,	17194, 17199,
23135, 23170, 23263	3421, 3480, 3483,	17201, 17205,
<code>\upshape</code> .. 8396, 8403,	3487, 3492, 3510,	17207, 17211,
8410, 8417, 8424,	3517, 3569, 3604,	17213, 17217,
10629, 10633,	3606, 3670, 3682,	17219, 17232,
10634, 10721,	3707, 3714, 3751,	17234, 19771,
10726, 10727, 20243	3753, 3826, 3835,	19772, 19774,
<code>\urlstyle</code> ..... 5070	3847, 3851, 3853,	19781, 19799,
<code>\use</code> ..... 18561	3902, 3911, 3921,	20081, 20082, 25786
<code>\usebeamercolor</code> 1599,	3931, 3942, 3946,	<code>\usecounter</code> .... 91,
1635, 1651, 1658,	3948, 3984, 3993, 4012	304, 620, 755,
1665, 1688, 1709,	<code>\usebeamertemplate</code>	1018, 1268, 2605,
1730, 1783, 1846,	..... 1849,	2666, 5247, 8511,
1862, 1873, 1887,	2107, 2111, 2122,	9290, 9478, 9787,
1892, 1902, 1963,	2131, 2140, 2153,	11351, 11622,
1995, 1998, 2043,	2160, 2169, 2202,	15526, 17900,
2130, 2159, 2599,	2211, 2215, 2223,	20471, 20865,
2608, 2621, 2630,	2278, 2283, 2600,	21059, 21262,
2644, 2721, 2728,	2604, 2622, 2625,	21796, 21801,
2733, 2888, 2986,	2645, 2723, 2725,	22557, 22562,
3025, 3035, 3041,	2730, 2735, 2891,	23322, 23327, 24075
3104, 3109, 3110,	3201, 3493, 3691, 3714	<code>\usefontofkomafont</code>
3116, 3122, 3128,	<code>\usebox</code> 4776, 4786, 7361,	..... 21882,
3137, 3139, 3149,	7493, 7495, 7500,	21919, 22643,
3151, 3161, 3163,	7502, 7511, 7512,	22680, 23408, 23445
3198, 3204, 3281,	7515, 7516, 7723,	<code>\usekomafont</code> .....
3287, 3293, 3330,	11205, 11208,	.. 21490, 21497,
3344, 3351, 3491,	11216, 11223,	21571, 21577,
3592, 3604, 3606,	11231, 11238,	21580, 21582,
3627, 3674, 3681,	11281, 16969,	21585, 21593,
3690, 3714, 3751,	16973, 17056,	21595, 21638,
3753, 3768, 3851, 3946	17058, 17062,	21912, 21913,
<code>\usebeamerfont</code> ....	17064, 17069,	21944, 21945,
1575, 1585, 1586,	17071, 17075,	21950, 21955,
1598, 1613, 1614,	17077, 17081,	21956, 21959,
1634, 1655, 1656,	17083, 17087,	21966, 21967,
1664, 1687, 1708,	17089, 17095,	21971, 21977,
1729, 1764, 1765,	17096, 17099,	21978, 21982,
1782, 1800, 1801,	17100, 17104,	22045, 22048,
1816, 1818, 1825,	17105, 17108,	22058, 22064,
1827, 1834, 1836,	17109, 17112,	22066, 22230,
1847, 1863, 1872,	17113, 17116,	22237, 22311,
2597, 2607, 2619,	17117, 17131,	22317, 22320,
2629, 2642, 2718,	17132, 17134,	22322, 22325,
2837, 2838, 2854,	17135, 17147,	22333, 22335,





16200,	16215,	<code>\verb</code> . . . . . 23843	1721, 1733, 1742,
16235,	16426,	<code>\VerbBox</code> . . . 11262, 11264	2061, 3366, 3367,
16439,	16463,	<code>\verse@i</code> . . . . . 8956,	3374, 3375, 3382,
16554,	16571,	8987, 8993, 9001, 9042	3383, 3594, 3630,
16603,	16620,	<code>\verse@ii</code> . . . . .	3637, 3641, 3997,
16719,	16730,	8967, 8988, 8994,	4016, 7752, 7753,
16755,	18217,	8996, 9002, 9004, 9042	8925, 8927, 9935,
18276,	18281,	<code>\versewidth</code> . . . . .	10159, 10224,
18284,	18289,	. . . 8919, 8929, 9021	10456, 10475,
18290,	18293,	<code>\vfil</code> 458, 472, 669, 672,	15698, 15739,
18345,	18383,	788, 817, 976, 979,	16577, 16624,
18917,	19067,	1040, 1069, 1228,	18208, 18262,
19162,	19185,	1231, 1290, 1319,	18645, 18907,
19190,	19192,	2123, 2141, 2154,	18988, 19195,
19200,	19218,	2170, 2485, 2545,	19202, 19227,
19223,	19262,	3386, 3599, 3610,	19295, 19302,
19285,	19290,	8926, 9276, 9279,	19329, 19358,
19292,	19300,	9332, 9361, 9464,	19471, 19482,
19318,	19323,	9467, 9509, 9538,	23756, 23784,
19354,	19820,	9611, 9625, 10794,	23825, 26098,
19996,	19997,	10815, 11374,	26218, 26267, 26467
20010,	20014,	11388, 11469,	<code>\vsize</code> . . . . . 10537,
20019,	20023,	11483, 15541,	15845, 16391,
20035,	20046,	15555, 20154,	16442, 18288,
20061,	20063,	20379, 20382,	18296, 21519,
20065,	20068,	20504, 20533,	21536, 22259,
20073,	20110,	20643, 20672,	22276, 23032, 23049
20117,	20118,	20829, 20832,	<code>\vskip</code> . . 319, 322, 459,
20125,	20254,	20908, 20922,	462, 468, 527, 533,
21922,	22683,	21095, 21109, 26537	539, 543, 605, 687,
23448,	23796,	<code>\vfill</code> . . . . 3112, 3687,	789, 798, 808, 879,
23830,	23835,	4579, 8706, 12119,	883, 889, 893, 914,
25386,	25389,	12122, 15413,	1041, 1050, 1060,
25394,	25398,	20061, 20066,	1131, 1135, 1141,
25402,	25406,	20067, 21294,	1145, 1170, 1291,
25410,	25414,	21309, 21341,	1300, 1310, 1381,
25418,	25422,	21358, 21574,	1386, 1392, 1396,
25814,	25822,	21599, 21613,	1402, 1405, 1814,
25823,	25831,	21637, 22314,	1823, 1832, 1899,
25998,	26003,	22339, 22353,	1945, 1958, 1962,
26095,	26112,	22377, 23087,	2011, 2013, 2015,
26199,	26214,	23112, 23126, 23150	2017, 2019, 2020,
26246,	26261,	<code>\vfuzz</code> . . . . . 3047,	2904, 2911, 2914,
26292,	26308,	7977, 7980, 7981	2919, 2926, 2929,
26319,	26453,	<code>\vleftskip</code> . 19035, 19036	2934, 2941, 2944,
26494,	26533, 26536	<code>\voffset</code> . . . . . 4607	2959, 3135, 3143,
<code>\vboxL</code> . . . . . 20118,		<code>\voidb@x</code> . 2588, 9813, 9877	3147, 3155, 3159,
21284, 21329, 25823		<code>\vphantom</code> . . . . . 25549	3167, 3228, 3311,
<code>\vboxR</code> . . . . . 20110, 25814		<code>\vpic</code> . 19986, 19996, 19997	3313, 3333, 3338,
<code>\vcenter</code> . . . . .		<code>\vrightskip</code> 19035, 19036	3356, 3391, 3393,
. 421, 1521, 9920,		<code>\vrule</code> . . . . 403, 1536,	3496, 3519, 3557,
23830, 25916,		1638, 1644, 1652,	3597, 3609, 3656,
26005, 26006, 26095		1659, 1668, 1677,	3671, 3676, 3684,
<code>\veqno</code> . . . . . 337, 338		1691, 1700, 1712,	3692, 3716, 3739,



3748, 3779, 3795,  
3811, 3813, 3834,  
3839, 3846, 3854,  
3857, 3883, 3894,  
3924, 3930, 3941,  
3951, 4040, 5002,  
8982, 9009, 9045,  
9046, 9052, 9162,  
9164, 9221, 9260,  
9333, 9342, 9352,  
9398, 9437, 9510,  
9519, 9529, 9560,  
9565, 9569, 9571,  
9577, 9581, 9583,  
9612, 9615, 9621,  
9680, 9686, 9692,  
9696, 9716, 9755,  
9760, 9768, 10189,  
10248, 10409,  
10413, 10491,  
10494, 10503,  
10506, 10517,  
10519, 10859,  
10913, 11331,  
11339, 11375,  
11378, 11384,  
11439, 11443,  
11449, 11453,  
11470, 11473,  
11479, 11538,  
11544, 11550,  
11554, 11589,  
11594, 11603,  
11979, 12003,  
12084, 15318,  
15358, 15366,  
15368, 15381,  
15476, 15494,  
15498, 15506,  
15542, 15545,  
15551, 15606,  
15610, 15616,  
15620, 15869,  
15873, 15874,  
16251, 16427,  
16465, 16470,  
16722, 16733,  
16740, 16760,  
18108, 18121,  
18235, 18247,  
18398, 19061,  
19063, 19066,  
19107, 19116,  
19124, 19193,

19194, 19196,  
19203, 19220,  
19293, 19294,  
19296, 19303,  
19320, 19365,  
19377, 19396,  
19408, 19420,  
19961, 19978,  
19999, 20065,  
20151, 20157,  
20397, 20436,  
20505, 20514,  
20524, 20595,  
20599, 20605,  
20609, 20644,  
20653, 20663,  
20738, 20745,  
20751, 20755,  
20761, 20764,  
20769, 20808,  
20909, 20912,  
20918, 20982,  
20988, 20993,  
20996, 21015,  
21096, 21099,  
21105, 21164,  
21170, 21176,  
21180, 21200,  
21238, 21242,  
21250, 21489,  
21496, 21578,  
21581, 21583,  
21592, 21594,  
21596, 21639,  
21899, 21901,  
21905, 21907,  
21999, 22001,  
22012, 22012,  
22229, 22236,  
22318, 22321,  
22323, 22332,  
22334, 22336,  
22379, 22660,  
22662, 22666,  
22668, 22761,  
22763, 22772,  
22774, 23002,  
23009, 23091,  
23094, 23096,  
23105, 23107,  
23109, 23152,  
23425, 23427,  
23431, 23433,  
23526, 23528,

23537, 23539,  
24198, 24217,  
24238, 24255,  
24272, 24289,  
24306, 24324,  
24343, 24363,  
24398, 24587,  
25243, 25427,  
25606, 25610,  
25629, 26020,  
26029, 26038,  
26047, 26133,  
26295, 26311,  
26322, 26330,  
26453, 26532,  
26545, 26572, 26580  
\vspace 3031, 3033, 3061,  
3067, 3073, 3182,  
3189, 3210, 3271,  
5170, 7354, 7444,  
7452, 8070, 8074,  
8136, 8141, 8154,  
8159, 8172, 8177,  
8294, 8303, 8312,  
8393, 8400, 8407,  
8414, 8421, 8704,  
8748, 8752, 9554,  
9574, 9749, 9763,  
11583, 11598,  
11643, 11645,  
11647, 15489,  
15501, 17991,  
17993, 18365,  
18378, 21233,  
21245, 24104,  
24110, 24115,  
24122, 24127, 24132  
\vsplit . . . . . 10098,  
10099, 10116,  
10120, 10141,  
10204, 10310,  
10400, 10565,  
12127, 15683,  
15719, 16435,  
16555, 16604,  
19163, 19263,  
19967, 19970,  
19989, 19990,  
20008, 20012,  
20017, 20021,  
20033, 20044,  
20071, 26200, 26247  
\vss . . . 316, 2132, 2161,  
2585, 3634, 10175,







<code>\XC@display</code> .. 25724, 25728, 25758, 25775	<code>\XeLaTeX</code> . . . . . 17792, 25890, 25893, 25894, 26758, 26759	1154, 1158, 1159, 1170, 1171, 1174, 1176, 1189, 1215, 1285, 1302, 1360, 1397, 1423, 1427, 1430, 1443, 1465, 1473, 1491, 1501, 1503, 1513, 1515, 1520, 1534, 1536, 1537, 2005, 2007, 2008, 2013, 2015, 2017, 2019, 2020, 2045, 2299, 2316, 2333, 2349, 2365, 2381, 4309, 4314, 4315, 4316, 4318, 4527, 4532, 4533, 4534, 4536, 4947, 5002, 5262, 5272, 5277, 5829, 5846, 6642, 6652, 7251, 7260, 7559, 7792, 7796, 7836, 7840, 7880, 7884, 8470, 8497, 8528, 8540, 8718, 8946, 8949, 8952, 8993, 8994, 8996, 9002, 9016, 9020, 9024, 9025, 9026, 9027, 9028, 9029, 9042, 9116, 9128, 9129, 9136, 9138, 9151, 9153, 9161, 9205, 9209, 9210, 9221, 9222, 9225, 9227, 9240, 9263, 9315, 9317, 9319, 9327, 9344, 9382, 9386, 9387, 9398, 9399, 9402, 9404, 9417, 9440, 9492, 9494, 9496, 9504, 9521, 9555, 9575, 9592, 9597, 9598, 9657, 9704, 9719, 9737, 9739, 9741, 9750, 9764, 9815, 9816, 9827, 9829, 9912, 9914, 9919, 9933, 9935, 9936, 9941, 9942, 9943, 9944, 9945, 9979, 9990, 10110, 10278, 10301,
<code>\XC@edef</code> . . . 25711, 25760	<code>\XeTeX</code> . . . 17791, 20167, 25883, 25886, 25887, 26756, 26757	
<code>\XC@fbox</code> . . . . . 25779	<code>\XeTeXcharclass</code> 4377, 4378, 4379, 4380, 4381	
<code>\XC@getmodclr</code> 25691, 25734	<code>\XeTeXinterchartokenstate</code> . . . . . 4374	
<code>\XC@inflation</code> 25705, 25748	<code>\XeTeXinterchartoks</code> 4382	
<code>\XC@let@Nc</code> . 25726, 25773	<code>\XKV@err</code> . . 2397, 2400, 2423, 2426, 2449, 2452	
<code>\XC@mclr</code> . . . 25705, 25748	<code>\XKV@errx</code> 2403, 2429, 2455	
<code>\XC@mmod</code> . . . . . 25703, 25704, 25746, 25747	<code>\XKV@tkey</code> 2400, 2426, 2452	
<code>\XC@mul</code> . . . . 25706, 25749	<code>\xm</code> . . . . . 11027, 11031, 11045, 11049	
<code>\XC@split</code> . . . . . 25769	<code>\xxm</code> . . . . . 11035, 11039, 11053, 11057	
<code>\XC@tgt@mod</code> 25699, 25742	<code>\xyzy</code> . . . . . 7958	
<code>\XC@type</code> . . . 25712, 25761		
<code>\XC@undeclaredcolor</code> . . . . . 25708, 25719	<b>Y</b>	
<code>\xcolor@</code> . . . 25723, 25757	<code>\y</code> . . . . . 11027, 11031, 11035, 11039, 11044, 11045, 11048, 11049, 11053, 11054, 11057, 11058, 17796, 17798, 17799, 17802, 17809	
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