

The `longfigure` Package*

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1 Usage

The `longfigure` package provides a table-like environment that can display a stream of subfigures as a single figure, which may break across pages. It does this by using and relabeling components of the `longtable` package.

The `longfigure` package differs slightly from the well-known `longtable` package written by David Carlisle. The `longtable` package defines a `longtable` environment, which produces tables that can be broken by \TeX 's standard page-breaking algorithm. Similarly, the `longfigure` package defines a `longfigure` environment which produces figures that can be broken by \TeX 's standard page-breaking algorithm.

The internal structure of a long figure is similar to a longtable. Rows might contain (for example) tables or graphics. Page breaks may occur only between rows.

The `longfigure` package differs from the `longtable` package in the following ways:

- The counters and macros that start with `\LT` are renamed to start with `\LF` to avoid namespace conflicts when the two packages are used together. Note: The generic macros defined in the `longtable` package (`\endfirsthead`, `\endhead`, `\endfoot`, `\endlastfoot`) are also renamed with `\LF` as a prefix.
- The `longfigure` package supports two additional key-value options:
 - `figname=` specifies the counter for numbering `longfigure` environments. The default is `figure`, but you can specify any string. If the counter is not already defined, it is created.
 - `resetby=` specifies a counter (for example, `resetby=chapter`) such that output numbering is reset with each change in the counter value. Refer to the `tocloft` package documentation for information about how the lists are typeset.

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If a counter is specified that does not exist, the `tocloft` package is loaded to create the new counter.

You can produce a *List of Figures* using the package defaults by inserting the following tag in your document at the point where you would like the list to appear.

```
\listoffigures
```

The default counter used to display figures is the `figure` counter. However, you can specify a different counter. For example, if you want your figures to be labeled as ‘Display’, specify `figname=display` when you load the `longfigure` package; to display the *List of Displays*, insert the following command in your document at the point where you would like the list to appear.

```
\listofdisplay
```

When you specify a `figname` for which no counter exists, the `longfigure` package loads the `tocloft` package and creates the counter. If you would like to use more advanced features of the `tocloft` package, load it before loading `longfigure`. Then the `longfigure` package will see that your counter specified in the `figname=` option is already defined and will not attempt to create it.

Note: An auxiliary file with extension `.lft` is created to contain the information needed to create the list.

The `\fnum@table` macro from the `longtable` package is replaced with the `\LF@name` macro. It returns the capitalized counter name with the value of the counter. For example, if the counter is `figure` and the macro is processing the second `longfigure`, the `\LF@name` macro would contain the value ‘Figure 2’.

1.1 Example

The following lines provide a simple example that produces a single figure containing three images and one tabular environment. Each element is a row of the `longfigure` environment. Page breaks may occur between rows.

```
\documentclass{book}
\usepackage{graphicx}
\usepackage{longfigure}

\begin{document}
  \begin{longfigure}{c}
    \caption{My Long Figure}\label{mlfig}\\
    \includegraphics[width=3in]{myfig1}\\
    \includegraphics[width=3in]{myfig2}\\
    \includegraphics[width=3in]{myfig3}\\
    \begin{tabular}{ll}
      one & two \\
      three & four
    \end{tabular}
  \end{longfigure}
\end{document}
```

In the example, the `longfigure` specified only a single centered column. Of course, you can specify multiple columns as well and, if needed, use the `\multicolumn` command for more flexibility.

The implementation of the `longfigure` package follows. The comments describe only the changes from the `longtable` package code. For complete details about the logic and usage of the environment, see the `longtable` documentation.

2 Implementation

```
1 \ProvidesPackage{longfigure}[2014/01/15 longfigure]
```

The following statement loads the `xkeyval` package for declaring and processing package options.

```
2 \RequirePackage{xkeyval}
```

The following statement defines a new command `\LFcounter` to contain the string `figure`. The macro is used for testing whether a counter with that name exists:

```
3 \newcommand*{\LFcounter}{figure}
```

The following statement defines a new command `\LFreset` to contain the name of the counter that `longfigure` number should reset within. If no value is given, the `longfigures` are numbered consecutively through the document:

```
4 \newcommand*{\LFreset}{\@empty}
```

2.1 Options

The two commands just defined exist to support the package options `figname=` and `resetby=`:

```
5 \DeclareOptionX{figname}[figure]{\renewcommand*{\LFcounter}{#1}}
```

```
6 \DeclareOptionX{resetby}{\renewcommand*{\LFreset}{#1}}
```

The following statements further define the options that the `longtable` package defines:

```
7 \DeclareOptionX{set}{}%
```

```
8 \DeclareOptionX{final}{}%
```

```
9 \DeclareOptionX{errorshow}{\def\LF@warn{\PackageInfo{longfigure}}}
```

```
10 \DeclareOptionX{pausing}{\def\LF@warn#1{\LF@err{#1}{This is not really an error}}}
```

```
11 \ProcessOptionsX
```

The following statements process the options.

```
12 \def\LFProcessOptions#1{
```

```
13   \@ifundefined{c@#1}{%
```

```
14     \RequirePackage{tocloft}
```

```
15     \expandafter\def\csname list#1name\endcsname{List of #1s}
```

```
16     \ifx\@empty\LFreset%
```

```
17       \newlistof{#1}{lft}{\csname list#1name\endcsname}
```

```
18     \else
```

```
19       \newlistof[\LFreset]{#1}{lft}{\csname list#1name\endcsname}
```

```
20     \fi
```

```
21   \fi
```

```
22 }{}%
```

```

23 }
24 \expandafter\LFProcessOptions\expandafter{\LFcounter}

```

If a counter is specified that does not exist, `\c@countername` is undefined and the `tocloft` package is loaded in order to use its commands to create the new counters and list.

Thus, the extra package is required only when a new counter is specified.. Note that this automatic loading takes place only if the counter specified in the package options is not defined. You can load the `tocloft` package before loading `longfigure` and retain all of the flexibility that package offers. However, you must define the new counters yourself by using the `tocloft` package command `\newlistof`. You must also define the new list to use the `lft` file for writing its auxiliary information.

2.2 Utilities

`\strcfstr` The following macro, `\strcfstr`, is described by Wilson (2001). The purpose of the macro is to check whether two strings, given as arguments, are equal. A new boolean `\ifLF@same` contains the result of the test.

```

25 \newif\ifLF@same
26 \newcommand{\strcfstr}[2]{%
27   \LF@samefalse
28   \begingroup\def\2{#2}
29   \ifx\2#1\endgroup\LF@sametrue
30   \else\endgroup
31   \fi
32 }

```

`\LFupcase` The following macro `\LFupcase` uppercases the first letter of a string (Lazarides, 2010).

```

33 \def\LFupcase#1{%
34   \def\x##1##2{%
35     \MakeUppercase{##1}{##2}}\x#1%
36 }

```

The following macro creates a string to provide a label and number for an output. It replaces `\fnum@table` from the `longtable` package. It contains the capitalized version of the counter name and the counter number (for example, `Figure~3`).

```

37 \def\LF@name{\expandafter\LFupcase%
38   \expandafter{\LFcounter}~%
39   \expandafter\csname the\LFcounter\endcsname}%

```

The remainder of this package follows the `longtable` package almost identically, except that macros, skips, counters, and so on are prefixed with `\LF` instead of `\LT` as in the `longtable` package.

```

40 \def\LF@err{\PackageError{longfigure}}
41 \def\LF@warn{\PackageWarning{longfigure}}
42 \def\LF@final@warn{%
43   \AtEndDocument{%

```

```

44 \LF@warn{\LFcounter \@width s have changed. Rerun \LaTeX\.\@gobbletwo}}%
45 \global\let\LF@final@warn\relax}
46 %
47 \newskip\LFleft \LFleft=\fill
48 \newskip\LFright \LFright=\fill
49 \newskip\LFpre \LFpre=\bigskipamount
50 \newskip\LFpost \LFpost=\bigskipamount
51 \newcount\LFchunksize \LFchunksize=20
52 \let\c@LFchunksize\LFchunksize
53 \newdimen\LFcapwidth \LFcapwidth=4in
54 \newbox\LF@head
55 \newbox\LF@firsthead
56 \newbox\LF@foot
57 \newbox\LF@lastfoot
58 \newcount\LF@cols
59 \newcount\LF@rows
60 \newcounter{LF@tables}
61 \newcounter{LF@chunks}[LF@tables]
62 %
63 \newtoks\LF@p@ftn
64 \mathchardef\LF@end@pen=30000
65 \def\longfigure{%
66 \par
67 \ifx\multicols\@undefined
68 \else
69 \ifnum\col@number>\@ne
70 \@twocolumntrue
71 \fi
72 \fi
73 \if@twocolumn
74 \LF@err{longfigure not in 1-column mode}\@ehc
75 \fi
76 \begingroup
77 \@ifnextchar[\LF@array{\LF@array[x]}}
78 \def\LF@array[#1]#2{%
79 \refstepcounter{LFcounter}\stepcounter{LF@tables}%
80 \if l#1%
81 \LFleft\z@ \LFright\fill
82 \else\if r#1%
83 \LFleft\fill \LFright\z@
84 \else\if c#1%
85 \LFleft\fill \LFright\fill
86 \fi\fi\fi
87 \let\LF@mcol\multicolumn
88 \let\LF@@tabarray\@tabarray
89 \let\LF@@hl\hline
90 \def\@tabarray{%
91 \let\hline\LF@@hl
92 \LF@@tabarray}%
93 \let\\LF@tabularcr\let\tabularnewline\\%

```

```

94 \def\newpage{\noalign{\break}}%
95 \def\pagebreak{\noalign{\ifnum'=0\fi\testopt{\LF@no@pgbk-}4}}%
96 \def\nopagebreak{\noalign{\ifnum'=0\fi\testopt{\LF@no@pgbk4}}%
97 \let\hline\LF@hline \let\kill\LF@kill\let\caption\LF@caption
98 \@tempdima\ht\strutbox
99 \let\@endpbox\LF@endpbox
100 \ifx\extrarowheight\@undefined
101 \let\@acol\@tabacol
102 \let\@classz\@tabclassz \let\@classiv\@tabclassiv
103 \def\@startpbox{\vtop\LF@startpbox}%
104 \let\@@startpbox\@startpbox
105 \let\@@endpbox\@endpbox
106 \let\LF@LL@FM@cr\@tabularcr
107 \else
108 \advance\@tempdima\extrarowheight
109 \col@sep\@tabcolsep
110 \let\@startpbox\LF@startpbox\let\LF@LL@FM@cr\@arraycr
111 \fi
112 \setbox\@arstrutbox\hbox{\vrule
113 \@height \arraystretch \@tempdima
114 \@depth \arraystretch \dp \strutbox
115 \@width \z@}%
116 \let\@sharp#\let\protect\relax
117 \begingroup
118 \mkpream{#2}%
119 \xdef\LF@bchunk{%
120 \global\advance\c@LF@chunks\@ne
121 \global\LF@rows\z@\setbox\z@\vbox\bgroup
122 \LF@setprevdepth
123 \tabskip\LF@left \noexpand\halign to\hsize\bgroup
124 \tabskip\z@ \@arstrut \@preamble \tabskip\LF@right \cr}%
125 \endgroup
126 \expandafter\LF@nofcols\LF@bchunk&\LF@nofcols
127 \LF@make@row
128 \m@th\let\par\@empty
129 \everycr{}\lineskip\z@\baselineskip\z@
130 \LF@bchunk}
131 \def\LF@no@pgbk#1[#2]{\penalty #1\@getpen{#2}\ifnum'={0\fi}}
132 \def\LF@start{%
133 \let\LF@start\endgraf
134 \endgraf\penalty\z@\vskip\LF@pre
135 \dimen@ \pagetotal
136 \advance\dimen@ \ht\ifvoid\LF@firsthead\LF@head\else\LF@firsthead\fi
137 \advance\dimen@ \dp\ifvoid\LF@firsthead\LF@head\else\LF@firsthead\fi
138 \advance\dimen@ \ht\LF@foot
139 \dimen@ii\vfuzz
140 \vfuzz\maxdimen
141 \setbox\@tw@\copy\z@
142 \setbox\@tw@\vsplit\@tw@ to \ht\@arstrutbox
143 \setbox\@tw@\vbox{\unvbox\@tw@}%

```

```

144 \vfuzz\dimen@ii
145 \advance\dimen@ \ht
146 \ifdim\ht\@arstrutbox>\ht\tw@\@arstrutbox\else\tw@\fi
147 \advance\dimen@\dp
148 \ifdim\dp\@arstrutbox>\dp\tw@\@arstrutbox\else\tw@\fi
149 \advance\dimen@ -\pagegoal
150 \ifdim \dimen@>\z@\vfil\break\fi
151 \global\@colroom\@colht
152 \ifvoid\LF@foot\else
153 \advance\vsizel-\ht\LF@foot
154 \global\advance\@colroom-\ht\LF@foot
155 \dimen@\pagegoal\advance\dimen@-\ht\LF@foot\pagegoal\dimen@
156 \maxdepth\z@
157 \fi
158 \ifvoid\LF@firsthead\copy\LF@head\else\box\LF@firsthead\fi\nobreak
159 \output{\LF@output}}
160 \def\endlongfigure{%
161 \crr
162 \noalign{%
163 \let\LF@entry\LF@entry@chop
164 \xdef\LF@save@row{\LF@save@row}}}%
165 \LF@echunk
166 \LF@start
167 \unvbox\z@
168 \LF@get@widths
169 \if@files
170 {\let\LF@entry\LF@entry@write\immediate\write\@auxout{%
171 \gdef\expandafter\noexpand
172 \csname LF@\romannumeral\c@LF@tables\endcsname
173 {\LF@save@row}}}%
174 \fi
175 \ifx\LF@save@row\LF@@@save@row
176 \else
177 \LF@warn{Column \@width s have changed\MessageBreak
178 in table \thetable}}%
179 \LF@final@warn
180 \fi
181 \endgraf\penalty -\LF@end@pen
182 \endgroup
183 \global\@mparbottom\z@
184 \pagegoal\vsizel
185 \endgraf\penalty\z@\addvspace\LFpost
186 \ifvoid\footins\else\insert\footins{}\fi}
187 \def\LF@nofcols#1&{%
188 \futurelet\@let@token\LF@n@fcols}
189 \def\LF@n@fcols{%
190 \advance\LF@cols\@ne
191 \ifx\@let@token\LF@nofcols
192 \expandafter\@gobble
193 \else

```

```

194     \expandafter\LF@nofcols
195     \fi}
196 \def\LF@tabularcr{%
197   \relax\iffalse{\fi\ifnum0='}\fi
198   \@ifstar
199     {\def\crrc{\LF@crrc\noalign{\nobreak}}\let\cr\crrc
200     \LF@t@bularcr}%
201     {\LF@t@bularcr}}
202 \let\LF@crrc\crrc
203 \let\LF@setprevdepth\relax
204 \def\LF@t@bularcr{%
205   \global\advance\LF@rows\@ne
206   \ifnum\LF@rows=\LF@chunksz
207     \gdef\LF@setprevdepth{%
208       \prevdepth\z@\global
209       \global\let\LF@setprevdepth\relax}%
210     \expandafter\LF@xtabularcr
211   \else
212     \ifnum0='{ }\fi
213     \expandafter\LF@LL@FM@cr
214   \fi}
215 \def\LF@xtabularcr{%
216   \@ifnextchar[\LF@argtabularcr\LF@ntabularcr}
217 \def\LF@ntabularcr{%
218   \ifnum0='{ }\fi
219   \LF@echunk
220   \LF@start
221   \unvbox\z@
222   \LF@get@widths
223   \LF@bchunk}
224 \def\LF@argtabularcr[#1]{%
225   \ifnum0='{ }\fi
226   \ifdim #1>\z@
227     \unskip\@xargarraycr{#1}%
228   \else
229     \@yargarraycr{#1}%
230   \fi
231   \LF@echunk
232   \LF@start
233   \unvbox\z@
234   \LF@get@widths
235   \LF@bchunk}
236 \def\LF@echunk{%
237   \crrc\LF@save@row\cr\egroup
238   \global\setbox\@ne\lastbox
239   \unskip
240   \egroup}
241 \def\LF@entry#1#2{%
242   \ifhmode\@firstofone{&}\fi\omit
243   \ifnum#1=\c@LF@chunks

```



```

244 \else
245 \kern#2\relax
246 \fi}
247 \def\LF@entry@chop#1#2{%
248 \noexpand\LF@entry
249 {\ifnum#1>\c@LF@chunks
250 1}{0pt%
251 \else
252 #1}{#2%
253 \fi}}
254 \def\LF@entry@write{%
255 \noexpand\LF@entry^^J%
256 \@spaces}
257 \def\LF@kill{%
258 \LF@echunk
259 \LF@get@widths
260 \expandafter\LF@rebox\LF@bchunk}
261 \def\LF@rebox#1\bgroup{%
262 #1\bgroup
263 \unvbox\z@
264 \unskip
265 \setbox\z@\lastbox}
266 \def\LF@blank@row{%
267 \xdef\LF@save@row{\expandafter\LF@build@blank
268 \romannumeral\number\LF@cols 001 }}
269 \def\LF@build@blank#1{%
270 \if#1m%
271 \noexpand\LF@entry{1}{0pt}%
272 \expandafter\LF@build@blank
273 \fi}
274 \def\LF@make@row{%
275 \global\expandafter\let\expandafter\LF@save@row
276 \csname LF@\romannumeral\c@LF@tables\endcsname
277 \ifx\LF@save@row\relax
278 \LF@blank@row
279 \else
280 {\let\LF@entry\or
281 \if!%
282 \ifcase\expandafter\expandafter\expandafter\LF@cols
283 \expandafter\@gobble\LF@save@row
284 \or
285 \else
286 \relax
287 \fi
288 !%
289 \else
290 \aftergroup\LF@blank@row
291 \fi}%
292 \fi}
293 \let\setlongfigures\relax

```

```

294 \def\LF@get@widths{%
295   \setbox\tw@\hbox{%
296     \unhbox\@ne
297     \let\LF@old@row\LF@save@row
298     \global\let\LF@save@row\@empty
299     \count@\LF@cols
300     \loop
301       \unskip
302       \setbox\tw@\lastbox
303       \ifhbox\tw@
304         \LF@def@row
305         \advance\count@\m@ne
306       \repeat}%
307 \ifx\LF@@save@row\@undefined
308   \let\LF@@save@row\LF@save@row
309 \fi}
310 \def\LF@def@row{%
311   \let\LF@entry\or
312   \edef\@tempa{%
313     \ifcase\expandafter\count@\LF@old@row
314     \else
315       {1}{0pt}%
316     \fi}%
317   \let\LF@entry\relax
318   \xdef\LF@save@row{%
319     \LF@entry
320     \expandafter\LF@max@sel\@tempa
321     \LF@save@row}}
322 \def\LF@max@sel#1#2{%
323   {\ifdim#2=\wd\tw@
324     #1%
325   \else
326     \number\c@LF@chunks
327   \fi}%
328   {\the\wd\tw@}}
329 \def\LF@hline{%
330   \noalign{\ifnum0='}\fi
331   \penalty\@M
332   \futurelet\@let@token\LF@@hline}
333 \def\LF@@hline{%
334   \ifx\@let@token\hline
335     \global\let\@gtempa\@gobble
336     \gdef\LF@sep{\penalty-\@medpenalty\vskip\doublerulesep}%
337   \else
338     \global\let\@gtempa\@empty
339     \gdef\LF@sep{\penalty-\@lowpenalty\vskip-\arrayrulewidth}%
340   \fi
341   \ifnum0='{ \fi}%
342   \multispan\LF@cols
343     \unskip\leaders\hrule\@height\arrayrulewidth\hfill\cr

```

```

344 \noalign{\LF@sep}%
345 \multispan\LF@cols
346 \unskip\leaders\hrule\@height\arrayrulewidth\hfill\cr
347 \noalign{\penalty\@M}%
348 \@gtempa}

```

2.3 Captioning

You can easily change how a `longfigure` is captioned by redefining the `\LF@makecaption` macro after loading the package. The following statements show the default definition of the `\LF@makecaption`.

```

349 \def\LF@caption{%
350 \noalign\bgroup
351 \ifnextchar[{\egroup\LF@c@ption\@firstofone}\LF@c@pti@n}

```

`\LF@caption` begins the process. If it has an optional argument, it calls `\LF@c@ption`; otherwise it calls `\LF@c@pti@n`, which then calls `\LF@c@ption`.

```

352 \def\LF@c@ption#1[#2]#3{%
353 \LF@makecaption#1\LF@name{#3}%
354 \def\@tempa{#2}%
355 \ifx\@tempa\@empty\else

```

If a List of `longfigures` is requested:

- If the counter is `figure`, write to the `lof` file.
- If the counter is `table`, write to the `lot` file.
- Otherwise, write to `lft`, a file created here for this purpose.

The previously defined macro `\strcfstr` and boolean `\ifLF@same` are used here to determine the name of the counter and set the output file to contain the `longfigure` information.

```

356 {\let\\space
357 \strcfstr{\LF@counter}{figure}
358 \ifLF@same\def\LF@outfile{lof}\else
359 \strcfstr{\LF@counter}{table}
360 \ifLF@same\def\LF@outfile{lot}\else
361 \def\LF@outfile{lft}\fi\fi
362 \addcontentsline{\LF@outfile}{\LF@counter}
363 {\expandafter\protect\expandafter\numberline\expandafter%
364 {\expandafter\c@name the\LF@counter\endc@name}{#2}}}%
365 \fi
366 }

```

The `\LF@c@ption` macro ends the process when it calls the `\LF@makecaption` macro which typesets the caption.

```

367 \def\LF@c@pti@n{%
368 \ifstar
369 {\egroup\LF@c@ption\@gobble[]}%
370 {\egroup\@xdblarg{\LF@c@ption\@firstofone}}

```

The following macro is the one to override for redefining how the `longfigure` is captioned. The first argument is the name of the counter (for example, `Figure`), the second argument is the number of the counter, and the third argument is the caption itself.

```

371 \def\LF@makecaption#1#2#3{%
372   \LF@mcol\LF@cols c{\hbox to\z@{\hss\parbox[t]\LF@capwidth{%
373     \sbox\@tempboxa{#1{#2: }#3}%
374     \ifdim\wd\@tempboxa>\hsize
375       #1{#2: }#3%
376     \else
377       \hbox to\hsize{\hfil\box\@tempboxa\hfil}%
378     \fi
379     \endgraf\vskip\baselineskip}%
380   \hss}}
381 \def\LF@output{%
382   \ifnum\outputpenalty <-\@Mi
383     \ifnum\outputpenalty > -\LF@end@pen
384       \LF@err{floats and marginpars not allowed in a longfigure}\@ehc
385     \else
386       \setbox\z@\vbox{\unvbox\@cclv}%
387       \ifdim \ht\LF@lastfoot>\ht\LF@foot
388         \dimen@ \pagegoal
389         \advance\dimen@-\ht\LF@lastfoot
390         \ifdim\dimen@<\ht\z@
391           \setbox\@cclv\vbox{\unvbox\z@\copy\LF@foot\vss}%
392           \@makecol
393           \@outputpage
394           \setbox\z@\vbox{\box\LF@head}%
395         \fi
396       \fi
397       \global\@colroom\@colht
398       \global\vsizel\@colht
399       \vbox
400         {\unvbox\z@\box\ifvoid\LF@lastfoot\LF@foot\else
401           \LF@lastfoot\fi}%
402     \fi
403   \else
404     \setbox\@cclv\vbox{\unvbox\@cclv\copy\LF@foot\vss}%
405     \@makecol
406     \@outputpage
407     \global\vsizel\@colroom
408     \copy\LF@head\nobreak
409   \fi}
410 \def\LF@end@hd@ft#1{%
411   \LF@echunk
412   \ifx\LF@start\endgraf
413     \LF@err
414     {Longfigure head or foot not at start of table}%
415     {Increase LFchunksizel}%

```

```

416 \fi
417 \setbox#1\box\z@
418 \LF@get@widths
419 \LF@bchunk}

```

The following four macros are also defined to have a prefix of \LF. They do not have an \LTprefix in the `longtable` package, but they must be redefined in order to avoid a namespace clash.

```

420 \def\endLFfirsthead{\LF@end@hd@ft\LF@firsthead}
421 \def\endLFhead{\LF@end@hd@ft\LF@head}
422 \def\endLFfoot{\LF@end@hd@ft\LF@foot}
423 \def\endLFlastfoot{\LF@end@hd@ft\LF@lastfoot}
424 %
425 \def\LF@startpbox#1{%
426   \bgroup
427   \let\@footnotetext\LF@p@ftntext
428   \setlength\hsize{#1}%
429   \@arrayparboxrestore
430   \vrule \@height \ht\@arstrutbox \@width \z@}
431 \def\LF@endpbox{%
432   \@finalstrut\@arstrutbox
433   \egroup
434   \the\LF@p@ftn
435   \global\LF@p@ftn{}}%
436 \hfil}
437 \def\LF@p@ftntext#1{%
438   \edef\@tempa{\the\LF@p@ftn\noexpand\footnotetext[\the\c@footnote]}}%
439   \global\LF@p@ftn\expandafter{\@tempa{#1}}}%

```

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440 </longfigure>

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