The morefloats package

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Abstract

The default limit of unprocessed floats, 18, can be increased with this morefloats package. Otherwise, \clear(double)page, h(!), H from the float package, or \FloatBarrier from the picins package might help.

Note: IATEX 2015 provides the \extrafloats command. Don Hosek, Quixote, 1990/07/27 (Thanks!) invented the main code for handling more floats before \extrafloats was available. David Carlisle pointed the maintainer to the new \extrafloats (Thanks!). The current maintainer is H.-Martin Münch.

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Save per page about 200 ml water, 2 g CO₂ and 2 g wood: Therefore please print only if this is really necessary.

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1 Introduction

The default limit of unprocessed floats, 18, can be increased with this morefloats package.

"Of course one immediately begins to wonder: »Why eighteen?!« And it turns out that 18 one-line tables with 10 point Computer Modern using article.cls produces almost exactly one page worth of material."

(user https://tex.stackexchange.com/users/1495/kahen as comment to https://tex.stackexchange.com/a/35596/6865 on 2011/11/21)

As alternatives (see also section 3 below) \clear(double)page, h(!), H from the float package, or \FloatBarrier from the picins package might help. If the floats cannot be placed anywhere at all, extending the number of floats will just delay the arrival of the corresponding error.

2 Usage

2.1 General usage:

Load the package placing

```
\usepackage[<options>] {morefloats}
```

in the preamble of your LATEX 2ε source file (the earlier the better).

The morefloats package takes two options: maxfloats and morefloats, where morefloats gives the number of additional floats and maxfloats gives the maximum number of floats. maxfloats=25 therefore means, that there are 18 (default) floats and 7 additional floats. morefloats=7 therefore has the same meaning. It is only necessary to give one of these two options. At the time being, it is not possible to reduce the number of floats (for example to save boxes). If you have code accomplishing that, please send it to the package maintainer, thanks.

Version 1.0b used a fixed value of maxfloats=36. Therefore for backward compatibility this value is taken as the default one. Example:

```
\usepackage[maxfloats=25]{morefloats}
or
    \usepackage[morefloats=7]{morefloats}
or
    \usepackage[maxfloats=25,morefloats=7]{morefloats}
```

2.2 Situation for LATEX before 2015:

Float uses insert, and each insert uses a group of count, dimen, skip, and box each. When there are not enough available, no \newinsert can be created. The etex package provides access at an extended range of those registers, but does not use those for \newinsert. Therefore the inserts must be reserved first, which forces the use of the extended register range for other new count, dimen, skip, and box: To have more floats available, use \usepackage{etex}\reserveinserts{...} right after \documentclass[...]{...}, where the argument of \reserveinserts should be at least the maximum number of floats. Add another 10 if the bigfoot or the manyfoot package is used, but \reserveinserts can be about 234 at most for older LATEX formats.

Situation for LATEX since 2015: 2.3

Now \reserveinserts can be about 2147483647, but \insert255{} even then produces an error. The LATEX 2015 "release provides a new command in the format \extrafloats"; "as it doesn't use \newinsert (and as the 2015 format uses extended registers by default) you can allocate a lot more floats" (both DAVID CARLISLE, 29. June 2015), e.g. \extrafloats{1234}.

3 Alternatives (kind of)

The very old morefloats with a fixed number of maxfloats=36 (i.e. 18 morefloats) has been archived at http://mirror.ctan.org/obsolete/macros/latex/contrib/ misc/morefloats.sty.

If you really want to increase the number of (possible) floats, this is the right package. On the other hand, if you ran into trouble of Too many unprocessed floats, but would also accept less floats, there are some other possibilities:

- The command \clearpage forces LATEX to output any floating objects that occurred before this command (and go to the next page). \cleardoublepage does the same but ensures that the next page with output is one with odd page number.
- Using different float specifiers: t top, b bottom, p page of floats.
- Suggesting IAT_FX to put the object where it was placed: h (= here) float specifier.
- Telling LATEX to please put the object where it was placed: h! (= here!) float specifier.
- Forcing LATEX to put the object where it was placed and shut up: The float package provides the "style option here, giving floating environments a [H] option which means 'PUT IT HERE' (as opposed to the standard [h] option which means 'You may put it here if you like')" (float package documentation v1.3d as of 2001/11/08). Changing e.g. \begin{figure}[tbp]... to \begin{figure}[H]... forces the figure to be placed HERE instead of floating away.

The float package is available at https://www.ctan.org/pkg/float.

- The placeins package provides the command \FloatBarrier. Floats occurring before the \FloatBarrier are not allowed to float to a later place, and floats occurring after the \FloatBarrier are not allowed to float to an earlier place than the \FloatBarrier. (There can be more than one \FloatBarrier in a document.) – The same package also provides an option to automatically add \FloatBarriers to section headings. It is further possible to make \FloatBarriers less strict (see that package's documentation). The placeins package is available at https://www.ctan.org/pkg/placeins.
- Sometimes also increasing the maximum number (\maxdeadcycles) of calls of \output without a \shipout can help, for example \maxdeadcycles=123\relax.

See also the following entries in the UK List of TeX Frequently Asked Questions on the Web:

```
    http://www.tex.ac.uk/cgi-bin/texfaq2html?label=floats
    http://www.tex.ac.uk/cgi-bin/texfaq2html?label=tmupfl
    http://www.tex.ac.uk/cgi-bin/texfaq2html?label=figurehere
```

and the excellent article on "How to influence the position of float environments like figure and table in LATEX?" by Frank MITTELBACH at https://tex.stackexchange.com/a/39020/6865!

(You programmed or found another alternative, which is available at CTAN? OK, send an e-mail to me with the name, location at CTAN, and a short notice, and I will probably include it in the list above.)

4 Example

```
1 (*example)
2 \documentclass[british] {article} [2014/09/29]%
                                                  v1.4h
4 \usepackage[maxfloats=25]{morefloats}[2015/07/22]% v1.0h
5 %\maxdeadcycles=200\relax%
6 %% \maxdeadcycles is the maximum number of calls of \output
7 %% without a \shipout.
8 \gdef\unit#1{\mathord{\thinspace\mathrm{#1}}}%
9 \listfiles
10 \begin{document}
12 \makeatletter
14 \section*{Example for morefloats}
15 \markboth{Example for morefloats}{Example for morefloats}
17 This example demonstrates the use of package\newline
18 \textsf{morefloats}, v1.0h as of 2015/07/22 (HMM).\newline
19 The package takes options (here:
20 \verb|maxfloats=|\texttt{\morefloats@maxfloats} is used).\newline
21 For more details please see the documentation!\newline
22
23 To reproduce the \newline
24 \LaTeX{} \texttt{ Error: Too many unprocessed floats},\newline
25 comment out the \verb|\usepackage...| in the preamble
26 \text{ (line~3)} \setminus \text{newline}
27 (by placing a \% before it).\newline
29 \bigskip
32 and $2\unit{g}$~wood:\newline
33 Therefore please print only if this is really necessary. \newline
34 I do NOT think, that it is necessary to print THIS file, really!
36 \bigskip
37
```

```
38 There follow \morefloats@maxfloats{} floating tables.
40 \pagebreak
41
42 \@tempcnta=18\relax% default floats
43 \advance\0tempcnta by \morefloats0morefloats%
44\ \%\ \mbox{\em morefloats@morefloats} is the number of additional
45\;\text{\%} floating tables to create.
46 \loop
    \ifnum\@tempcnta>0\relax%
47
    \begin{table}[t]\centering%
49
      \begin{tabular}{|1|}%
50
         \hline%
         A table, which will keep floating.\\%
51
52
         \hline
53
      \end{tabular}%
      \verb|\caption{A floating Table.}| %
    \end{table}%
    \advance\@tempcnta by -1\relax%
56
57 \rgape
58
59 \text{ } \text{\colored}
61 \end{document}
62 (/example)
```

5 The implementation

We start off by checking that we are loading into LATEX 2ε and announcing the name and version of this package.

```
63 (*package)
          64 \NeedsTeXFormat{LaTeX2e}[2011/06/27]
          65\,\% The current format at the time of the release of this version of the
          66 \% morefloats package was 2015/01/01, patch level 2.
          67 \ProvidesPackage{morefloats}[2015/07/22 v1.0h
                         Raise limit of unprocessed floats (HMM)]
Options
          70 \RequirePackage{kvoptions}[2011/06/30]% v3.11
          71 %% morefloats may work with earlier versions of LaTeX2e and that
          72 %% package, but this was not tested.
          73 %% Please consider updating your LaTeX and package
          74 \% to the most recent version (if they are not already the most
          75 %% recent version).
          76
          77 \SetupKeyvalOptions{family=morefloats,prefix=morefloats@}
          78 \DeclareStringOption{maxfloats}% \morefloats@maxfloats
          79 \DeclareStringOption{morefloats}% \morefloats@morefloats
          81 \ProcessKeyvalOptions*
```

The morefloats package takes two options: maxfloats and morefloats, where morefloats gives the number of additional floats and maxfloats gives the maximum number of floats. maxfloats=37 therefore means, that there are 18 (default) floats and another 19 additional floats. morefloats=19 therefore has the same meaning. Version 1.0b used a fixed value of maxfloats=36. Therefore for backward compatibility this value will be taken as the default one.

Now we check whether maxfloats=... or morefloats=... or both were used, and if one option was not used, we supply the according value. If no option was used at all, we use the default values. Too many requested floats produce error massages by LATEX, which might not be easily traced back to this, therefore we issue a warning. If option maxfloats or morefloats is no number, the user will received the according error message by LATEX automatically.

```
83 \ifx\morefloats@maxfloats\@empty%
     \ifx\morefloats@morefloats\@empty% apply defaults:
84
       \gdef\morefloats@maxfloats{36}%
85
       \gdef\morefloats@morefloats{18}%
86
87
     \else%
       \ifnum\morefloats@morefloats>1569\relax%
88
         \PackageWarning{morefloats}{%
89
           \morefloats@morefloats\space more floats requested.\MessageBreak%
90
           LaTeX might run out of memory before this\MessageBreak%
91
           (in which case it will notify you)\MessageBreak%
92
          }%
93
94
       \else%
95
         \PackageInfo{morefloats}{%
           \morefloats@morefloats\space more floats requested.\MessageBreak%
96
           LaTeX might run out of memory before this\MessageBreak%
97
           (in which case it will notify you)\MessageBreak%
98
          ጉ%
99
100
       \fi%
```

```
101
       \@tempcnta=\morefloats@morefloats\relax%
       \advance\@tempcnta by +18%
102
103
       \xdef\morefloats@maxfloats{\the\@tempcnta}%
104
     \fi%
105 \else%
     \ifx\morefloats@morefloats\@empty%
106
       \@tempcnta=\morefloats@maxfloats\relax%
107
       \advance\@tempcnta by -18%
108
       \xdef\morefloats@morefloats{\the\@tempcnta}%
109
       \ifnum\morefloats@morefloats<\z@\relax% i.e. \morefloats@maxfloats < 18
110
         \gdef\morefloats@morefloats{0}%
111
112
       \fi%
       \ifnum\morefloats@maxfloats>1587\relax%
113
         \PackageWarning{morefloats}{%
114
           \morefloats@maxfloats\space floats requested.\MessageBreak%
115
116
           LaTeX might run out of memory before this\MessageBreak%
117
           (in which case it will notify you)\MessageBreak%
          }%
118
       \fi%
119
     \fi%
120
121 \fi%
122
123 \@tempcnta=\morefloats@maxfloats\relax%
124 \xdef\morefloats@max{\the\@tempcnta}%
125
126 \ifnum\@tempcnta<18\relax%
     \PackageError{morefloats}{Option maxfloats is \the\@tempcnta<18}{%
127
       maxfloats must be a number equal to or larger than 18\MessageBreak%
128
129
       (or not used at all).\MessageBreak%
130
       Now setting maxfloats=18.\MessageBreak%
131
     \gdef\morefloats@max{18}%
132
133 \fi%
134
135 \@tempcnta=\morefloats@morefloats\relax%
136 \xdef\morefloats@more{\the\@tempcnta}\%
138 \ifnum\@tempcnta<\z@\relax%
     139
       morefloats must be a number equal to or larger than O\MessageBreak%
140
141
       (or not used at all).\MessageBreak%
142
       Now setting morefloats=0.\MessageBreak%
143
     \gdef\morefloats@more{0}%
145 \fi%
146
147 \@tempcnta=18\relax%
148 \advance\@tempcnta by \morefloats@more%
   The value of morefloats should now be equal to the value of morefloats@max.
149 \advance\@tempcnta by -\morefloats@max%
   Therefore \@tempcnta should now be equal to zero.
150 \wdef\morefloats@mx{\theta}%
151 \ifnum\morefloats@mx=\z@\relax%
    \@tempcnta=\morefloats@maxfloats\relax%
152
153 \else%
    \PackageError{morefloats}{%
154
       Clash between options maxfloats and morefloats}{%
155
```

```
156
                    Option maxfloats must be empty\MessageBreak%
                    or the sum of 18 and option value morefloats, \MessageBreak%
157
158
                    but it is maxfloats=\morefloats@maxfloats\space and %
159
                    morefloats=\morefloats@morefloats .\MessageBreak%
                    }%
160
         We choose the larger value to be used.
              \ifnum\@tempcnta<\z@% \morefloats@max > \morefloats@more
161
                     \@tempcnta=\morefloats@maxfloats\relax%
162
              \else% \@tempcnta>0, \morefloats@max < \morefloats@more
163
164
                    \@tempcnta=18\relax%
                     \advance\@tempcnta by \morefloats@morefloats%
165
166
              \fi%
167 \fi%
168 \edgn{morefloats@mx{\theta}} % \edgn{morefl
         Maybe we had to change \morefloats@maxfloats or \morefloats@maxfloats:
169 \xdef\morefloats@maxfloats{\the\@tempcnta}\%
170 \advance\@tempcnta by -18\relax%
171 \xdef\morefloats@morefloats{\the\@tempcnta}%
172 \gdef\morefloats@test{1}%
173 \ifx\morefloats@morefloats\morefloats@test\relax%
              \PackageInfo{morefloats}{%
174
175
                   Maximum number of possible floats asked for: \morefloats@maxfloats%
176
                    \MessageBreak%
                    (i.e. one more float)\@gobble%
177
                 }%
178
179 \else%
              \PackageInfo{morefloats}{%
180
                    Maximum number of possible floats asked for: \morefloats@maxfloats%
181
                    \MessageBreak%
182
                     (i.e. \morefloats@morefloats\space more floats).\MessageBreak%
183
                    LaTeX might run out of memory before this\MessageBreak%
184
                     (in which case it will notify you)%
185
186
                    \@gobble%
187
                 }%
188 \fi%
189
190
```

The LaTeX 2015 "release provides a new command in the format \extrafloats which does a similar job [as earlier versions of this package did], although as it doesn't use \newinsert (and as the 2015 format uses extended registers by default) you can allocate a lot more floats," e.g. \extrafloats{1234}. Loading the etex package and morefloats with the new format would "over-write the new allocation mechanism and end up with fewer floats available." Therefore here it is tested "for the new format and switch[ed] to the new mechanism in that case, so that existing documents work as before but using the new allocation scheme underneath." (all DAVID CARLISLE, 29. June 2015, who provided also main parts of the following code)

```
191 %% Test for new mechanism in LaTeX 2015:
192 \ifx\eQalloc\Qundefined\relax%
193 %% This is an old LaTeX format, \extrafloats is not available.
194 \PackageWarning{morefloats}{%
195 \fmtname\space <\fmtversion> %
196 \ifx\patchQlevel\Qundefined\relax%
197 \else patch level \patchQlevel%
198 \fi%
```

```
199
       \MessageBreak%
       found. At least\MessageBreak%
200
       LaTeX2e <2015/01/01> patch level 2\MessageBreak%
201
202
       is now available\MessageBreak%
       and can handle even more floats%
       \@gobble%
204
      }%
205
206 \else%
     \mbox{\%} This is new in LaTeX 2015, \extrafloats is available.
207
208
     \@ifpackageloaded{etex}%
     {%% etex package loaded:
209
210
      %% "it overwrites all the new allocation system
211
      %% so really \extrafloats shouldn't be expected to work"
212
      \% (D. Carlisle, 2015/07/16, who also provided the following
      %% \extrafloats redefinition).
213
214
      \gdef\extrafloats#1{%
215
        \count@\numexpr\float@count-1\relax%
216
          \ch@ck0\count@\count\relax%
217
          \ch@ck1\count@\dimen\relax%
218
          \ch@ck2\count@\skip\relax%
219
          \ch@ck4\count@\box\relax%
220
221
          \e@alloc@chardef\float@count\count@%
          \expandafter\e@alloc@chardef\csname bx@\the\float@count\endcsname\float@count%
222
          \@cons\@freelist{\csname bx@\the\float@count\endcsname}%
223
224
          \expandafter%
225
          \extrafloats\expandafter{\numexpr#1-1\relax}%
        \fi%
226
      }%
227
228
     }{% etex package not loaded
229
     \extrafloats{\morefloats@morefloats}%
230
     % The part after the test is no longer needed and therefore not loaded:
231
     \expandafter\endinput%
232
233 \fi%
234 \% End of the test for LaTeX 2015 (or newer).
235 %% Not new format, otherwise the last \endinput would have been applied.
237 %% Test for e-TeX:
238 \RequirePackage{ifetex}[2011/12/15]% v1.2
239 \ifetex%
240
     %% then we can use code similar to the one from David Carlisle,
241
     %% https://tex.stackexchange.com/a/212483/6865
     \mathchardef\float@count=32767\relax%
242
     \gdef\extrafloats#1{%
243
       \ifnum#1>\z@\relax%
244
         \count@\numexpr\float@count-1\relax%
245
         \ch@ck0\count@\count\relax%
246
247
         \ch@ck1\count@\dimen\relax%
248
         \ch@ck2\count@\skip\relax%
         \ch@ck4\count@\box\relax%
249
250
         \mathchardef\float@count\count@\relax%
251
         \expandafter\mathchardef\csname bx@\the\float@count\endcsname\float@count%
252
         \@cons\@freelist{\csname bx@\the\float@count\endcsname}%
253
         \expandafter%
254
         \extrafloats\expandafter{\numexpr#1-1\relax}%
       \fi}%
255
     \extrafloats{\morefloats@morefloats}%
```

```
257 \expandafter\endinput%

258 \fi%

259 %% End of the test for e-TeX.

260 %% Old format and not e-TeX,

261 %% otherwise the last \endinput would have been applied.

262

263
```

If we ever come to this place, "everything" failed and we need to do things the old fashioned way, which severely limits the maximum number of additionally available floats.

```
264 \PackageWarning{morefloats}{%}
265 e-TeX is not available here\MessageBreak%
266 but it is available in almost all\MessageBreak%
267 recent TeX distributions.\MessageBreak%
268 Maybe consider updating to one of those%
269 \@gobble%
270 }%
271
```

Float uses insert, and each insert use a group of count, dimen, skip, and box each. When there are not enough available, no \newinsert can be created.

```
272 %% Code similar to the one from Heiko Oberdiek,
      273 %% http://permalink.gmane.org/gmane.comp.tex.latex.latex3/2159
                                     \@tempcnta=\the\count10 \relax \def\maxfloats@vln{count}
      275 \ifnum \count11>\@tempcnta \@tempcnta=\the\count11 \relax \def\maxfloats@vln{dimen} \fi%
      276 \ifnum \count12 \Qtempcnta \Qtempcnta=\the\count12 \relax \def\maxfloatsQvln{skip}
      277 \ifnum \count14>\@tempcnta \@tempcnta=\the\count14 \relax \def\maxfloats@vln{box}
      278 %% end similar
      279 \@tempcntb=234\relax%
      280 \advance\@tempcntb by -\@tempcnta\relax%
      281 \Otempcnta=\Otempcntb\relax%
      282 \ifnum\morefloats@mx>\@tempcntb\relax%
           \PackageError{morefloats}{Too many floats requested}{%
             Maximum number of possible floats asked for: \morefloats@mx .\MessageBreak%
      284
             There are only \the\@tempcnta\space \maxfloats@vln\space left,\MessageBreak%
12
      285
             therefore only \the\@tempcntb\space floats will be possible.\MessageBreak%
      286
             Load the morefloats package earlier and/or\MessageBreak%
      287
             reduce the number of used \maxfloats@vln\space registers\MessageBreak%
      288
             to have more floats available!\MessageBreak%
      289
      290
           \xdef\morefloats@mx{\the\@tempcntb}%
      292 \fi%
      293
```

The task at hand is to increase LATEX's default limit of 18 unprocessed floats in memory at once to maxfloats. An examination of latex.tex reveals that this is accomplished by allocating (!) an insert register for each unprocessed float. A quick check of (the obsolete, now ltplain, update to LATEX2e!) lplain.lis reveals that there is room, in fact, for up to 256 unprocessed floats, but TEX's main memory could be exhausted well before that happened.

LATEX2e uses a \dimen for each \newinsert, and the number of \dimens is also restricted. Therefore only use the number of floats you need! To check the number of used registers, you could use the regstats and/or regcount packages (see subsection 6.1).

Allocating insert registers @freelist @elt newinsert First we allocate the additional insert registers needed.

That accomplished, the next step is to define the macro \Offreelist, which is merely a list of the box registers each preceded by \Oelt. This approach allows processing of the list to be done far more efficiently. A similar approach is used by MITTELBACH & SCHÖPF's doc.sty to keep track of control sequences, which should not be indexed.

First for the 18 default LATEX boxes.

\ifnum maxfloats <= 18, LATEX already allocated the insert registers. \fi

```
294 \global\long\def\@freelist{\@elt\bx@B\@elt\bx@C\@elt\bx@D\@elt\bx@E\@elt\bx@F\@elt\bx@G\@elt\bx@H\@elt\
295 \bx@I\@elt\bx@J\@elt\bx@K\@elt\bx@L\@elt\bx@M\@elt\bx@N\@elt\bx@O\@elt\bx@P\@elt\bx@Q\@elt\bx@R}
296
```

Now we need to add \@elt\bx@... depending on the number of morefloats wanted: (Karl Berry helped with two out of three \expandafters, thanks!)

```
297 \ifnum \morefloats@mx> 18 \newinsert\bx@S
                                                                                            \expandafter\gdef\expandafter\0freelist\expandafter\\0freelist \0elt\bx0S}
298 \ifnum \morefloats@mx> 19 \newinsert\bx@T
                                                                                            \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@T}
299 \ifnum \morefloats@mx> 20 \newinsert\bx@U
                                                                                            \expandafter\gdef\expandafter\0freelist\expandafter\{\dfreelist \delt\bx&U}
                                                                                            \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@V}
300 \ifnum \morefloats@mx> 21 \newinsert\bx@V
301 \ifnum \morefloats@mx> 22 \newinsert\bx@W
                                                                                            \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@W}
                                                                                            \expandafter\gdef\expandafter\0freelist\expandafter\\0freelist \0elt\bx0X}
302 \ifnum \morefloats@mx> 23 \newinsert\bx@X
303 \ifnum \morefloats@mx> 24 \newinsert\bx@Y
                                                                                            \expandafter\gdef\expandafter\0freelist\expandafter\{\dfreelist \delt\bx\0Y\}
304 \ifnum \morefloats@mx> 25 \newinsert\bx@Z
                                                                                            \expandafter\gdef\expandafter\0freelist\expandafter{\0freelist \0expandafter\0freelist \0expandafter\0freelist \0expandafter\0expandafter\0expandafter\0expandafter\0expandafter\0expandafter\0expandafter\0expandafter\0expandafter\0expandafter\0expandafter\0expandafter\0expandafter\0expandafter\0expandafter\0expandafter\0expandafter\0expandafter\0expandafter\0expandafter\0expandafter\0expandafter\0expandafter\0expandafter\0expandafter\0expandafter\0expandafter\0expandafter\0expandafter\0expandafter\0expandafter\0expandafter\0expandafter\0expandafter\0expandafter\0expandafter\0expandafter\0expandafter\0expandafter\0expandafter\0expandafter\0expandafter\0expandafter\0expandafter\0expandafter\0expandafter\0expandafter\0expandafter\0expandafter\0expandafter\0expandafter\0expandafter\0expandafter\0expandafter\0expandafter\0expandafter\0expandafter\0expandafter\0expandafter\0expandafter\0expandafter\0expandafter\0expandafter\0expandafter\0expandafter\0expandafter\0expandafter\0expandafter\0expandafter\0expandafter\0expandafter\0expandafter\0expandafter\0expandafter\0expandafter\0expandafter\0expandafter\0expandafter\0expandafter\0expandafter\0expandafter\0expandafter\0expandafter\0expandafter\0expandafter\0expandafter\0expandafter\0expandafter\0expandafter\0expandafter\0expandafter\0expandafter\0expandafter\0expandafter\0expandafter\0expandafter\0expandafter\0expandafter\0expandafter\0expandafter\0expandafter\0expandafter\0expandafter\0expandafter\0expandafter\0expandafter\0expandafter\0expandafter\0expandafter\0expandafter\0expandafter\0expandafter\0expandafter\0expandafter\0expandafter\0expandafter\0expandafter\0expandafter\0expandafter\0expandafter\0expandafter\0expandafter\0expandafter\0expandafter\0expandafter\0expandafter\0expandafter\0expandafter\0expandafter\0expandafter\0expandafter\0expandafter\0expandafter\0expandafter\0expandafter\0expandafter\0expandafter\0expandafter\0expandafter\0expandafter\0expandafter\0expandafter\0expandafter\0expandafter\0expandafter\0expandafter\0expandafter\0expandafter\0expandaft
305 \ifnum \morefloats@mx> 26 \newinsert\bx@AA
                                                                                           \expandafter\gdef\expandafter\0freelist\expandafter{\0freelist \0expandafter\delt\bx0AA}
306 \ifnum \morefloats@mx> 27 \newinsert\bx@AB
                                                                                           \expandafter\gdef\expandafter\0freelist\expandafter{\0freelist \0elt\bx0AB}
307 \ifnum \morefloats@mx> 28 \newinsert\bx@AC
                                                                                           \expandafter\gdef\expandafter\0freelist\expandafter{\0freelist \0elt\bx0AC}
308 \ifnum \morefloats@mx> 29 \newinsert\bx@AD \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@AD}
309 \ifnum \morefloats@mx> 30 \newinsert\bx@AE \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@AE}
310 \ifnum \morefloats@mx> 31 \newinsert\bx@AF \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@AF}
311 \ifnum \morefloats@mx> 32 \newinsert\bx@AG \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@AG}
312 \ifnum \morefloats@mx> 33 \newinsert\bx@AH \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@AH}
313 \ifnum \morefloats@mx> 34 \newinsert\bx@AI \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@AI}
```

```
314 \ifnum \morefloats@mx> 35 \newinsert\bx@AJ \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@AJ}
315 \ifnum \morefloats@mx> 36 \newinsert\bx@AK \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@AK}
316 \ifnum \morefloats@mx> 37 \newinsert\bx@AL \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@AL}
317 \ifnum \morefloats@mx> 38 \newinsert\bx@AM \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@AM}
318 \ifnum \morefloats@mx> 39 \newinsert\bx@AN \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@AN}
319 \ifnum \morefloats@mx> 40 \newinsert\bx@AO \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@AO}
320 \ifnum \morefloats@mx> 41 \newinsert\bx@AP \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@AP}
321 \ifnum \morefloats@mx> 42 \newinsert\bx@AQ \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@AQ}
322 \ifnum \morefloats@mx> 43 \newinsert\bx@AR \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@AR}
323 \ifnum \morefloats@mx> 44 \newinsert\bx@AS \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@AS}
324 \ifnum \morefloats@mx> 45 \newinsert\bx@AT \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@AT}
325 \ifnum \morefloats@mx> 46 \newinsert\bx@AU \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@AU}
326 \ifnum \morefloats@mx> 47 \newinsert\bx@AV \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@AV}
327 \ifnum \morefloats@mx> 48 \newinsert\bx@AW \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@AW}
328 \ifnum \morefloats@mx> 49 \newinsert\bx@AX \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@AX}
329 \ifnum \morefloats@mx> 50 \newinsert\bx@AY \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@AY}
330 \ifnum \morefloats@mx> 51 \newinsert\bx@AZ \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@AZ}
331 \ifnum \morefloats@mx> 52 \newinsert\bx@BA \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@BA}
332 \ifnum \morefloats@mx> 53 \newinsert\bx@BB \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@BB}
333 \ifnum \morefloats@mx> 54 \newinsert\bx@BC \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@BC}
334 \ifnum \morefloats@mx> 55 \newinsert\bx@BD \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@BD}
335 \ifnum \morefloats@mx> 56 \newinsert\bx@BE \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@BE}
336 \ifnum \morefloats@mx> 57 \newinsert\bx@BF \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@BF}
337 \ifnum \morefloats@mx> 58 \newinsert\bx@BG \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@BG}
338 \ifnum \morefloats@mx> 59 \newinsert\bx@BH \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@BH}
339 \ifnum \morefloats@mx> 60 \newinsert\bx@BI \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@BI}
340 \ifnum \morefloats@mx> 61 \newinsert\bx@BJ \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@BJ}
341 \ifnum \morefloats@mx> 62 \newinsert\bx@BK \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@BK}
342 \ifnum \morefloats@mx> 63 \newinsert\bx@BL \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@BL}
343 \ifnum \morefloats@mx> 64 \newinsert\bx@BM \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@BM}
344 \ifnum \morefloats@mx> 65 \newinsert\bx@BN \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@BN}
345 \ifnum \morefloats@mx> 66 \newinsert\bx@BO \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@BO}
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346 \ifnum \morefloats@mx> 67 \newinsert\bx@BP \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@BP}
347 \ifnum \morefloats@mx> 68 \newinsert\bx@BQ \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@BQ}
348 \ifnum \morefloats@mx> 69 \newinsert\bx@BR \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@BR}
349 \ifnum \morefloats@mx> 70 \newinsert\bx@BS \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@BS}
350 \ifnum \morefloats@mx> 71 \newinsert\bx@BT \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@BT}
351 \ifnum \morefloats@mx> 72 \newinsert\bx@BU \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@BU}
352 \ifnum \morefloats@mx> 73 \newinsert\bx@BV \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@BV}
353 \ifnum \morefloats@mx> 74 \newinsert\bx@BW \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@BW}
354 \ifnum \morefloats@mx> 75 \newinsert\bx@BX \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@BX}
355 \ifnum \morefloats@mx> 76 \newinsert\bx@BY \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@BY}
356 \ifnum \morefloats@mx> 77 \newinsert\bx@BZ \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@BZ}
357 \ifnum \morefloats@mx> 78 \newinsert\bx@CA \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@CA}
358 \ifnum \morefloats@mx> 79 \newinsert\bx@CB \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@CB}
359 \ifnum \morefloats@mx> 80 \newinsert\bx@CC \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@CC}
360 \ifnum \morefloats@mx> 81 \newinsert\bx@CD \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@CD}
361 \ifnum \morefloats@mx> 82 \newinsert\bx@CE \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@CE}
362 \ifnum \morefloats@mx> 83 \newinsert\bx@CF \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@CF}
363 \ifnum \morefloats@mx> 84 \newinsert\bx@CG \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@CG}
364 \ifnum \morefloats@mx> 85 \newinsert\bx@CH \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@CH}
365 \ifnum \morefloats@mx> 86 \newinsert\bx@CI \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@CI}
366 \ifnum \morefloats@mx> 87 \newinsert\bx@CJ \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@CJ}
367 \ifnum \morefloats@mx> 88 \newinsert\bx@CK \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@CK}
368 \ifnum \morefloats@mx> 89 \newinsert\bx@CL \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@CL}
369 \ifnum \morefloats@mx> 90 \newinsert\bx@CM \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@CM}
370 \ifnum \morefloats@mx> 91 \newinsert\bx@CN \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@CN}
371 \ifnum \morefloats@mx> 92 \newinsert\bx@CO \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@CO}
372 \ifnum \morefloats@mx> 93 \newinsert\bx@CP \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@CP}
373 \ifnum \morefloats@mx> 94 \newinsert\bx@CQ \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@CQ}
374 \ifnum \morefloats@mx> 95 \newinsert\bx@CR \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@CR}
375 \ifnum \morefloats@mx> 96 \newinsert\bx@CS \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@CS}
376 \ifnum \morefloats@mx> 97 \newinsert\bx@CT \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@CT}
377 \ifnum \morefloats@mx> 98 \newinsert\bx@CU \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@CU}
```

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378 \ifnum \morefloats@mx> 99 \newinsert\bx@CV \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@CV}
379 \ifnum \morefloats@mx>100 \newinsert\bx@CW \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@CW}
380 \ifnum \morefloats@mx>101 \newinsert\bx@CX \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@CX}
381 \ifnum \morefloats@mx>102 \newinsert\bx@CY \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@CY}
382 \ifnum \morefloats@mx>103 \newinsert\bx@CZ \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@CZ}
383 \ifnum \morefloats@mx>104 \newinsert\bx@DA \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@DA}
384 \ifnum \morefloats@mx>105 \newinsert\bx@DB \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@DB}
385 \ifnum \morefloats@mx>106 \newinsert\bx@DC \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@DC}
386 \ifnum \morefloats@mx>107 \newinsert\bx@DD \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@DD}
387 \ifnum \morefloats@mx>108 \newinsert\bx@DE \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@DE}
388 \ifnum \morefloats@mx>109 \newinsert\bx@DF \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@DF}
389 \ifnum \morefloats@mx>110 \newinsert\bx@DG \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@DG}
390 \ifnum \morefloats@mx>111 \newinsert\bx@DH \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@DH}
391 \ifnum \morefloats@mx>112 \newinsert\bx@DI \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@DI}
392 \ifnum \morefloats@mx>113 \newinsert\bx@DJ \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@DJ}
393 \ifnum \morefloats@mx>114 \newinsert\bx@DK \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@DK}
394 \ifnum \morefloats@mx>115 \newinsert\bx@DL \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@DL}
395 \ifnum \morefloats@mx>116 \newinsert\bx@DM \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@DM}
396 \ifnum \morefloats@mx>117 \newinsert\bx@DN \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@DN}
397 \ifnum \morefloats@mx>118 \newinsert\bx@DO \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@DO}
398 \ifnum \morefloats@mx>119 \newinsert\bx@DP \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@DP}
399 \ifnum \morefloats@mx>120 \newinsert\bx@DQ \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@DQ}
400 \ifnum \morefloats@mx>121 \newinsert\bx@DR \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@DR}
401 \ifnum \morefloats@mx>122 \newinsert\bx@DS \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@DS}
402 \ifnum \morefloats@mx>123 \newinsert\bx@DT \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@DT}
403 \ifnum \morefloats@mx>124 \newinsert\bx@DU \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@DU}
404 \ifnum \morefloats@mx>125 \newinsert\bx@DV \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@DV}
405 \ifnum \morefloats@mx>126 \newinsert\bx@DW \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@DW}
406 \ifnum \morefloats@mx>127 \newinsert\bx@DX \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@DX}
407 \ifnum \morefloats@mx>128 \newinsert\bx@DY \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@DY}
408 \ifnum \morefloats@mx>129 \newinsert\bx@DZ \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@DZ}
409 \ifnum \morefloats@mx>130 \newinsert\bx@EA \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@EA}
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410 \ifnum \morefloats@mx>131 \newinsert\bx@EB \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@EB}
411 \ifnum \morefloats@mx>132 \newinsert\bx@EC \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@EC}
412 \ifnum \morefloats@mx>133 \newinsert\bx@ED \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@ED}
413 \ifnum \morefloats@mx>134 \newinsert\bx@EE \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@EE}
414 \ifnum \morefloats@mx>135 \newinsert\bx@EF \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@EF}
415 \ifnum \morefloats@mx>136 \newinsert\bx@EG \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@EG}
416 \ifnum \morefloats@mx>137 \newinsert\bx@EH \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@EH}
417 \ifnum \morefloats@mx>138 \newinsert\bx@EI \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@EI}
418 \ifnum \morefloats@mx>139 \newinsert\bx@EJ \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@EJ}
419 \ifnum \morefloats@mx>140 \newinsert\bx@EK \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@EK}
420 \ifnum \morefloats@mx>141 \newinsert\bx@EL \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@EL}
421 \ifnum \morefloats@mx>142 \newinsert\bx@EM \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@EM}
422 \ifnum \morefloats@mx>143 \newinsert\bx@EN
                                              \expandafter\gdef\expandafter\0freelist\expandafter{\0freelist \0elt\bx0EN}
423 \ifnum \morefloats@mx>144 \newinsert\bx@EO \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@EO}
424 \ifnum \morefloats@mx>145 \newinsert\bx@EP \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@EP}
425 \ifnum \morefloats@mx>146 \newinsert\bx@EQ
                                              \expandafter\gdef\expandafter\0freelist\expandafter{\0freelist \0elt\bx0EQ}
426 \ifnum \morefloats@mx>147 \newinsert\bx@ER \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@ER}
427 \ifnum \morefloats@mx>148 \newinsert\bx@ES \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@ES}
428 \ifnum \morefloats@mx>149 \newinsert\bx@ET \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@ET}
429 \ifnum \morefloats@mx>150 \newinsert\bx@EU \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@EU}
430 \ifnum \morefloats@mx>151 \newinsert\bx@EV \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@EV}
431 \ifnum \morefloats@mx>152 \newinsert\bx@EW \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@EW}
432 \ifnum \morefloats@mx>153 \newinsert\bx@EX \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@EX}
433 \ifnum \morefloats@mx>154 \newinsert\bx@EY \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@EY}
434 \ifnum \morefloats@mx>155 \newinsert\bx@EZ \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@EZ}
435 \ifnum \morefloats@mx>156 \newinsert\bx@FA \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@FA}
436 \ifnum \morefloats@mx>157 \newinsert\bx@FB \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@FB}
437 \ifnum \morefloats@mx>158 \newinsert\bx@FC \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@FC}
438 \ifnum \morefloats@mx>159 \newinsert\bx@FD \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@FD}
439 \ifnum \morefloats@mx>160 \newinsert\bx@FE \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@FE}
440 \ifnum \morefloats@mx>161 \newinsert\bx@FF \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@FF}
441 \ifnum \morefloats@mx>162 \newinsert\bx@FG \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@FG}
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442 \ifnum \morefloats@mx>163 \newinsert\bx@FH \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@FH}
443 \ifnum \morefloats@mx>164 \newinsert\bx@FI \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@FI}
444 \ifnum \morefloats@mx>165 \newinsert\bx@FJ \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@FJ}
445 \ifnum \morefloats@mx>166 \newinsert\bx@FK \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@FK}
446 \ifnum \morefloats@mx>167 \newinsert\bx@FL \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@FL}
447 \ifnum \morefloats@mx>168 \newinsert\bx@FM \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@FM}
448 \ifnum \morefloats@mx>169 \newinsert\bx@FN \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@FN}
449 \ifnum \morefloats@mx>170 \newinsert\bx@F0 \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@F0}
450 \ifnum \morefloats@mx>171 \newinsert\bx@FP \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@FP}
451 \ifnum \morefloats@mx>172 \newinsert\bx@FQ \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@FQ}
452 \ifnum \morefloats@mx>173 \newinsert\bx@FR \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@FR}
453 \ifnum \morefloats@mx>174 \newinsert\bx@FS \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@FS}
454 \ifnum \morefloats@mx>175 \newinsert\bx@FT \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@FT}
455 \ifnum \morefloats@mx>176 \newinsert\bx@FU \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@FU}
456 \ifnum \morefloats@mx>177 \newinsert\bx@FV \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@FV}
457 \ifnum \morefloats@mx>178 \newinsert\bx@FW \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@FW}
458 \ifnum \morefloats@mx>179 \newinsert\bx@FX \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@FX}
459 \ifnum \morefloats@mx>180 \newinsert\bx@FY \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@FY}
460 \ifnum \morefloats@mx>181 \newinsert\bx@FZ \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@FZ}
461 \ifnum \morefloats@mx>182 \newinsert\bx@GA \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@GA}
462 \ifnum \morefloats@mx>183 \newinsert\bx@GB \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@GB}
463 \ifnum \morefloats@mx>184 \newinsert\bx@GC \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@GC}
464 \ifnum \morefloats@mx>185 \newinsert\bx@GD \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@GD}
465 \ifnum \morefloats@mx>186 \newinsert\bx@GE \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@GE}
466 \ifnum \morefloats@mx>187 \newinsert\bx@GF \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@GF}
467 \ifnum \morefloats@mx>188 \newinsert\bx@GG \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@GG}
468 \ifnum \morefloats@mx>189 \newinsert\bx@GH \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@GH}
469 \ifnum \morefloats@mx>190 \newinsert\bx@GI \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@GI}
470 \ifnum \morefloats@mx>191 \newinsert\bx@GJ \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@GJ}
471 \ifnum \morefloats@mx>192 \newinsert\bx@GK \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@GK}
472 \ifnum \morefloats@mx>193 \newinsert\bx@GL \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@GL}
473 \ifnum \morefloats@mx>194 \newinsert\bx@GM \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@GM}
```

```
474 \ifnum \morefloats@mx>195 \newinsert\bx@GN \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@GN}
475 \ifnum \morefloats@mx>196 \newinsert\bx@GO \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@GO}
476 \ifnum \morefloats@mx>197 \newinsert\bx@GP \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@GP}
477 \ifnum \morefloats@mx>198 \newinsert\bx@GQ \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@GQ}
478 \ifnum \morefloats@mx>199 \newinsert\bx@GR \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@GR}
479 \ifnum \morefloats@mx>200 \newinsert\bx@GS \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@GS}
480 \ifnum \morefloats@mx>201 \newinsert\bx@GT \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@GT}
481 \ifnum \morefloats@mx>202 \newinsert\bx@GU \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@GU}
482 \ifnum \morefloats@mx>203 \newinsert\bx@GV \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@GV}
483 \ifnum \morefloats@mx>204 \newinsert\bx@GW \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@GW}
484 \ifnum \morefloats@mx>205 \newinsert\bx@GX \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@GX}
485 \ifnum \morefloats@mx>206 \newinsert\bx@GY \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@GY}
486 \ifnum \morefloats@mx>207 \newinsert\bx@GZ \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@GZ}
487 \ifnum \morefloats@mx>208 \newinsert\bx@HA \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@HA}
488 \ifnum \morefloats@mx>209 \newinsert\bx@HB \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@HB}
489 \ifnum \morefloats@mx>210 \newinsert\bx@HC \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@HC}
490 \ifnum \morefloats@mx>211 \newinsert\bx@HD \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@HD}
491 \ifnum \morefloats@mx>212 \newinsert\bx@HE \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@HE}
492 \ifnum \morefloats@mx>213 \newinsert\bx@HF \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@HF}
493 \ifnum \morefloats@mx>214 \newinsert\bx@HG \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@HG}
494 \ifnum \morefloats@mx>215 \newinsert\bx@HH \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@HH}
495 \ifnum \morefloats@mx>216 \newinsert\bx@HI \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@HI}
496 \ifnum \morefloats@mx>217 \newinsert\bx@HJ \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@HJ}
497 \ifnum \morefloats@mx>218 \newinsert\bx@HK \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@HK}
498 \ifnum \morefloats@mx>219 \newinsert\bx@HL \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@HL}
499 \ifnum \morefloats@mx>220 \newinsert\bx@HM \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@HM}
500 \ifnum \morefloats@mx>221 \newinsert\bx@HN \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@HN}
501 \ifnum \morefloats@mx>222 \newinsert\bx@HO \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@HO}
502 \ifnum \morefloats@mx>223 \newinsert\bx@HP \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@HP}
503 \ifnum \morefloats@mx>224 \newinsert\bx@HQ \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@HQ}
504 \ifnum \morefloats@mx>225 \newinsert\bx@HR \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@HR}
505 \ifnum \morefloats@mx>226 \newinsert\bx@HS \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@HS}
```

```
506 \ifnum \morefloats@mx>227 \newinsert\bx@HT \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@HT}
507 \ifnum \morefloats@mx>228 \newinsert\bx@HU \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@HU}
508 \ifnum \morefloats@mx>229 \newinsert\bx@HV \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@HV}
509 \ifnum \morefloats@mx>230 \newinsert\bx@HW \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@HW}
510 \ifnum \morefloats@mx>231 \newinsert\bx@HX \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@HX}
511 \ifnum \morefloats@mx>232 \newinsert\bx@HY \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@HY}
512 \ifnum \morefloats@mx>233 \newinsert\bx@HZ \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@HZ}
513 \ifnum \morefloats@mx>234 \newinsert\bx@IA \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@IA}
514 \ifnum \morefloats@mx>235 \newinsert\bx@IB \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@IB}
515 \ifnum \morefloats@mx>236 \newinsert\bx@IC \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@IC}
516 \ifnum \morefloats@mx>237 \newinsert\bx@ID \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@ID}
517 \ifnum \morefloats@mx>238 \newinsert\bx@IE \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@IE}
518 \ifnum \morefloats@mx>239 \newinsert\bx@IF \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@IF}
519 \ifnum \morefloats@mx>240 \newinsert\bx@IG \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@IG}
520 \ifnum \morefloats@mx>241 \newinsert\bx@IH \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@IH}
521 \ifnum \morefloats@mx>242 \newinsert\bx@II \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@II}
522 \ifnum \morefloats@mx>243 \newinsert\bx@IJ \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@IJ}
523 \ifnum \morefloats@mx>244 \newinsert\bx@IK \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@IK}
524 \ifnum \morefloats@mx>245 \newinsert\bx@IL \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@IL}
525 \ifnum \morefloats@mx>246 \newinsert\bx@IM \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@IM}
526 \ifnum \morefloats@mx>247 \newinsert\bx@IN \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@IN}
527 \ifnum \morefloats@mx>248 \newinsert\bx@IO \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@IO}
528 \ifnum \morefloats@mx>249 \newinsert\bx@IP \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@IP}
529 \ifnum \morefloats@mx>250 \newinsert\bx@IQ \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@IQ}
530 \ifnum \morefloats@mx>251 \newinsert\bx@IR \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@IR}
531 \ifnum \morefloats@mx>252 \newinsert\bx@IS \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@IS}
532 \ifnum \morefloats@mx>253 \newinsert\bx@IT \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@IT}
533 \ifnum \morefloats@mx>254 \newinsert\bx@IU \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@IU}
534 \ifnum \morefloats@mx>255 \newinsert\bx@IV \expandafter\gdef\expandafter\@freelist\expandafter{\@freelist \@elt\bx@IV}
```

```
535 \ifnum \morefloats@mx>256\relax%
  \PackageError{morefloats}{Too many floats called for}{%
  You requested more than 256 floats.\MessageBreak%
537
   (\morefloats@mx\space to be precise.)\MessageBreak%
538
  LaTeX before 2015 could not process\MessageBreak%
539
  more than 256 floats, therefore the morefloats\MessageBreak%
540
  package only provides 256 floats.\MessageBreak%
541
  If you need more floats, \MessageBreak%
542
  update to a current (>=2015) LaTeX distribution.\MessageBreak%
543
  I expected LaTeX (prior 2015) to run out of dimensions\MessageBreak%
544
  or memory long before reaching 256 floats anyway.\MessageBreak%
545
  }%
546
560 \fi \fi \fi \fi \fi
561
562 (/package)
```

6 Installation

6.1 Downloads

Everything is available at https://www.ctan.org, but may need additional packages themselves.

morefloats.dtx

For unpacking the morefloats.dtx file and constructing the documentation it is required:

- TEXFormat LATEX 2_{ε} : https://www.CTAN.org
- document class ltxdoc, 2015/03/26, v2.0w, https://www.ctan.org/pkg/ltxdoc
- package fontenc, 2005/09/27, v1.99g, https://ctan.org/pkg/fontenc
- package pdflscape, 2008/08/11, v0.10, https://ctan.org/pkg/pdflscape
- package holtxdoc, 2012/03/21, v0.24, https://ctan.org/pkg/holtxdoc
- package hypdoc, 2011/08/19, v1.11, https://ctan.org/pkg/hypdoc

morefloats.sty

The morefloats.sty for LATEX 2ε (i.e. each document using the morefloats package) requires:

- T_EXFormat L^AT_EX 2_€, https://www.CTAN.org/
- package kvoptions, 2011/06/30, v3.11, https://ctan.org/pkg/kvoptions
- package ifetex, 2011/12/15, v1.2, https://ctan.org/pkg/ifetex, is used in some cases

regstats regcount

To check the number of used registers it was mentioned:

- package regstats, https://ctan.org/pkg/regstats
- package regcount, https://ctan.org/pkg/regcount

Oberdiek holtxdoc hypdoc All packages of Heiko Oberdiek's bundle 'oberdiek' (especially holtxdoc, hypdoc, and kvoptions) are also available in a TDS compliant ZIP archive:

http://mirror.ctan.org/install/macros/latex/contrib/oberdiek.tds.zip. It is probably best to download and use this, because the packages in there are quite probably both recent and compatible among themselves.

hyperref

hyperref is not included in that bundle and needs to be downloaded separately, http://mirror.ctan.org/install/macros/latex/contrib/hyperref.tds.zip.

Münch

A hyperlinked list of my (other) packages can be found at https://www.ctan.org/author/muench-hm.

6.2 Package, unpacking TDS

Package. This package is available on https://www.CTAN.org.

http://mirror.ctan.org/macros/latex/contrib/morefloats/morefloats.dtx The source file.

http://mirror.ctan.org/macros/latex/contrib/morefloats/morefloats.pdf
The documentation.

http://mirror.ctan.org/macros/latex/contrib/morefloats/README The README file.

There is also a morefloats.tds.zip available:

http://mirror.ctan.org/install/macros/latex/contrib/morefloats.tds.zip Everything in TDS compliant, compiled format.

which additionally contains

morefloats.ins The installation file.

morefloats.drv The driver to generate the documentation.

morefloats.sty The .style file. morefloats-example.tex The example file.

morefloats-example.pdf The compiled example file.

For required other packages, please see the preceding subsection.

Unpacking. The .dtx file is a self-extracting docstrip archive. The files are extracted by running the .dtx through plain TFX:

```
tex morefloats.dtx
```

About generating the documentation see paragraph 6.4 below.

TDS. Now the different files must be moved into the different directories in your installation TDS tree (also known as texmf tree):

If you have a docstrip.cfg that configures and enables docstrip's TDS installing feature, then some files can already be in the right place, see the documentation of docstrip.

6.3 Refresh file name databases

If your TeX distribution (TeX Live, mikTeX, teTeX, ...) relies on file name databases, you must refresh these. For example, teTeX users run texhash or mktexlsr.

6.4 Some details for the interested

Unpacking with LATEX. The .dtx chooses its action depending on the format:

plain TEX: Run docstrip and extract the files.

LATEX: Generate the documentation.

If you insist on using \LaTeX for docstrip (really, docstrip does not need \LaTeX), then inform the autodetect routine about your intention:

```
latex \let\install=y\input{morefloats.dtx}
```

Do not forget to quote the argument according to the demands of your shell.

Generating the documentation. You can use both the .dtx or the .drv to generate the documentation. The process can be configured by a configuration file ltxdoc.cfg. For instance, put the following line into this file, if you want to have A4 as paper format:

\PassOptionsToClass{a4paper}{article}

An example follows how to generate the documentation with pdfLATEX:

pdflatex morefloats.dtx
makeindex -s gind.ist morefloats.idx
pdflatex morefloats.dtx
makeindex -s gind.ist morefloats.idx
pdflatex morefloats.dtx

6.5 Compiling the example

The example file, morefloats-example.tex, can be compiled via (pdf)latex morefloats-example.tex.

7 Acknowledgements

ETEX 2015 provides the \extrafloats command. Don Hosek, Quixote, 1990/07/27 (Thanks!) invented the main code for handling more floats before \extrafloats was available. DAVID CARLISLE pointed the maintainer to the new \extrafloats and provided the code for \extrafloats in case \extrafloats is not yet available at the used system (Thanks!). The current maintainer is H.-MARTIN MÜNCH.

I would like to thank additionally KARL BERRY for helping with taking over the maintainership of this package and two missing \expandafters, HEIKO OBERDIEK for providing a lot (!) of useful packages (from which I also got everything I know about creating a file in dtx format, ok, say it: copying), everybody of the CTAN team for managing CTAN, and the news:comp.text.tex and news:de.comp.text.tex newsgroups and everybody at http://tex.stackexchange.com/ for their help in all things TeX.

8 History

Some old versions have been archived at http://ctanhg.scharrer-online.de/pkg/morefloats.html.

[1990/07/27 v1.0a]

• Created by Don Hosek.

[2008/11/14 v1.0b]

• Clea F. Rees added a license line.

[2010/09/20 v1.0c]

- .dtx created by H.-MARTIN MÜNCH.
- Included more documentation and alternatives.
- Included options to allow the user to flexible choose the number of floats from 18 up to 256 instead of fixed 36.
- Included an example file.
- Created a README file.

[2011/02/01 v1.0d]

- References to http://www.tex.ac.uk/cgi-bin/texfaq2html?label=figurehere and http://mirror.ctan.org/obsolete/macros/latex/contrib/misc/ morefloats.sty added.
- Now using the Iscape package from the graphics bundle to print some pages of the documentation in landscape instead of portrait mode, because they were way too wide. (Since v1.0e replaced by pdflscape package.)
- Updated the version of the hyperref package. (Since version 1.0e the morefloats package uses a fixed version of the holtxdoc package, which calls for the right version of the hyperref package, therefore it is no longer necessary to give the recent version of the hyperref package here.)

[2011/07/10 v1.0e]

- There is a new version of the used kvoptions package.
- Now using the pdflscape package instead of the lscape package in the documentation.
- The holtxdoc package was fixed, therefore the warning in drv could be removed. Adapted the style of this documentation to new Oberdiek dtx style.

$[2012/01/28 \ v1.0f]$

- Bug fix: wrong path given in the documentation, fixed.
- Replaced \global\edef by \xdef.
- No longer uses a counter for itself but temporary ones. (For the floats of course inserts and therefore counts are still used.)
- The number of available inserts is checked before the allocation.
- Maximum number of floats/inserts is 256, not 266; corrected.
- Quite some additional changes in the dtx and README files.

[2015/07/16 v1.0g]

- Implemented the new \extrafloats from IATEX 2015 allowing several hundreds of additional floats.
- Update of documentation, README, and dtx internals.

[2015/07/22 v1.0h]

- Handling of more floats depending on new/old L^ΔT_EX format, availability of ε-T_EX in the used distribution, and loading of the etex package (before morefloats/after morefloats/not at all) should now ensure that the maximum number for available floats can be allocated.
- The example file now uses a flexible number of floats.

When you find a mistake or have a suggestion for an improvement of this package, please send an e-mail to the maintainer, thanks! (Please see BUG REPORTS in the README.)

9 Index

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