

The morefloats package

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2025/01/28 v1.1a

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: L^AT_EX since 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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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> 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 L^AT_EX 2_ε 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 L^AT_EX 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 L^AT_EX formats.

2.3 Situation for L^AT_EX since 2015:

Now `\reserveinserts` can be about 2 147 483 647, but `\insert255{}` even then produces an error. The L^AT_EX 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 L^AT_EX 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 L^AT_EX to put the object where it was placed: `h` (= here) float specifier.
- Telling L^AT_EX to please put the object where it was placed: `h!` (= here!) float specifier.

- Forcing L^AT_EX 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] ... \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 L^AT_EX?” by FRANK MITTELBACH at <https://www.latex-project.org/publications/indexbyyear/2014/>!

(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}[2024/06/29]%
3 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
4 \usepackage[maxfloats=25]{morefloats}[2025/01/28]%
5 % \maxdeadcycles=200\relax%
6 %% \maxdeadcycles is the maximum number of calls of \output
7 %% without a \shipout.
8 \listfiles
9 \begin{document}
10
11 \makeatletter
12
13 \section*{Example for morefloats}
14 \markboth{Example for morefloats}{Example for morefloats}
15
16 This example demonstrates the use of package\newline
17 \textsf{morefloats}, v1.1a as of 2025/01/28 (HMM).\newline
18 The package takes options (here:
19 \verb|maxfloats=|\texttt{\morefloats@maxfloats} is used).\newline
20 For more details please see the documentation!\newline
21
22 To reproduce the\newline
23 \LaTeX{} \texttt{Error: Too many unprocessed floats},\newline
24 comment out the \verb|\usepackage...| in the preamble
25 (line~3)\newline
26 (by placing a \% before it).\bigskip
27
28 There follow \morefloats@maxfloats{} floating tables.
29
30 \pagebreak
31
32 \tempcnta=18\relax% default floats
33 \advance\tempcnta by \morefloats@morefloats%
34 % \morefloats@morefloats is the number of additional
35 % floating tables to create.
36 \loop
37   \ifnum\tempcnta>0\relax%
38     \begin{table}[t]\centering%
39       \begin{tabular}{|l|}%
40         \hline%
41         A table, which will keep floating.\hline%
42       \end{tabular}
```

```
43      \end{tabular}%
44      \caption{A floating Table.}%
45  \end{table}%
46  \advance\@tempcnta by -1\relax%
47 \repeat
48
49 \makeatother
50
51 \end{document}
52 
```

5 The implementation

We start off by checking that we are loading into L^AT_EX 2_< and announcing the name and version of this package.

```
53 {*package}
54 \NeedsTeXFormat{LaTeX2e}[2011/06/27]
55 \ProvidesPackage{morefloats}[2025/01/28 v1.1a Raise limit of unprocessed floats (HMM)]
56
Options
57 \RequirePackage{kvoptions}[2011/06/30]%
58 % v3.11, newer versions exist!
59 \SetupKeyvalOptions{family=morefloats,prefix=morefloats@}
60 \DeclareStringOption{maxfloats}%
61 \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 messages by L^AT_EX, 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 L^AT_EX automatically.

```
62
63 \ifx\morefloats@maxfloats\empty%
64   \ifx\morefloats@morefloats\empty% apply defaults:
65     \gdef\morefloats@maxfloats{36}%
66     \gdef\morefloats@morefloats{18}%
67   \else%
68     \ifnum\morefloats@morefloats>1569\relax%
69       \PackageWarning{morefloats}{%
70         morefloats@morefloats\space more floats requested.\MessageBreak%
71         LaTeX might run out of memory before this\MessageBreak%
72         (in which case it will notify you)\MessageBreak%
73       }%
74   \else%
75     \PackageInfo{morefloats}{%
76       morefloats@morefloats\space more floats requested.\MessageBreak%
77       LaTeX might run out of memory before this\MessageBreak%
78       (in which case it will notify you)\MessageBreak%
79     }%
80   \fi%
81   \tempcnta=\morefloats@morefloats\relax%
82   \advance\tempcnta by +18%
83   \xdef\morefloats@maxfloats{\the\tempcnta}%
84   \fi%
85 \else%
86   \ifx\morefloats@morefloats\empty%
87     \tempcnta=\morefloats@maxfloats\relax%
88     \advance\tempcnta by -18%
89     \xdef\morefloats@morefloats{\the\tempcnta}%
90     \ifnum\morefloats@morefloats<\z@\relax% i.e. \morefloats@maxfloats < 18
91       \gdef\morefloats@morefloats{0}%
92     \fi%
93     \ifnum\morefloats@maxfloats>1587\relax%
94       \PackageWarning{morefloats}{%
```

```

95      \morefloats@maxfloats\space floats requested.\MessageBreak%
96      LaTeX might run out of memory before this\MessageBreak%
97      (in which case it will notify you)\MessageBreak%
98  }%
99  \fi%
100 \fi%
101 \fi%
102
103 \Qtempcnta=\morefloats@maxfloats\relax%
104 \xdef\morefloats@max{\the\Qtempcnta}%
105
106 \ifnum\Qtempcnta<18\relax%
107   \PackageError{morefloats}{Option maxfloats is \the\Qtempcnta<18}{%
108     maxfloats must be a number equal to or larger than 18\MessageBreak%
109     (or not used at all).\MessageBreak%
110     Now setting maxfloats=18.\MessageBreak%
111  }%
112  \gdef\morefloats@max{18}%
113 \fi%
114
115 \Qtempcnta=\morefloats@morefloats\relax%
116 \xdef\morefloats@more{\the\Qtempcnta}%
117
118 \ifnum\Qtempcnta<\z@\relax%
119   \PackageError{morefloats}{Option morefloats is \the\Qtempcnta<0}{%
120     morefloats must be a number equal to or larger than 0\MessageBreak%
121     (or not used at all).\MessageBreak%
122     Now setting morefloats=0.\MessageBreak%
123  }%
124  \gdef\morefloats@more{0}%
125 \fi%
126
127 \Qtempcnta=18\relax%
128 \advance\Qtempcnta by \morefloats@more%

```

The value of `morefloats` should now be equal to the value of `morefloats@max`.

```
129 \advance\Qtempcnta by -\morefloats@max%
```

Therefore `\Qtempcnta` should now be equal to zero.

```

130 \xdef\morefloats@mx{\the\Qtempcnta}%
131 \ifnum\morefloats@mx=\z@\relax%
132   \Qtempcnta=\morefloats@maxfloats\relax%
133 \else%
134   \PackageError{morefloats}{%
135     Clash between options maxfloats and morefloats}{%
136     Option maxfloats must be empty\MessageBreak%
137     or the sum of 18 and option value morefloats,\MessageBreak%
138     but it is maxfloats=\morefloats@maxfloats\space and %
139     morefloats=\morefloats@morefloats .\MessageBreak%
140  }%

```

We choose the larger value to be used.

```

141 \ifnum\Qtempcnta<\z@% \morefloats@max > \morefloats@more
142   \Qtempcnta=\morefloats@maxfloats\relax%
143 \else% \Qtempcnta>0, \morefloats@max < \morefloats@more
144   \Qtempcnta=18\relax%
145   \advance\Qtempcnta by \morefloats@morefloats%
146 \fi%
147 \fi%
148 \edef\morefloats@mx{\the\Qtempcnta}%

```

Maybe we had to change `\morefloats@maxfloats` or `\morefloats@maxfloats`:

```
149 \xdef\morefloats@maxfloats{\the\Qtempcnta}%

```

```

150 \advance\@tempcnta by -18\relax%
151 \xdef\morefloats@morefloats{\the\@tempcnta}%
152 \gdef\morefloats@test{1}%
153 \ifx\morefloats@morefloats\morefloats@test\relax%
154   \PackageInfo{morefloats}{%
155     Maximum number of possible floats asked for: \morefloats@maxfloats%
156     \MessageBreak%
157     (i.e. one more float)\@gobble%
158   }%
159 \else%
160   \PackageInfo{morefloats}{%
161     Maximum number of possible floats asked for: \morefloats@maxfloats%
162     \MessageBreak%
163     (i.e. \morefloats@morefloats\space more floats).\MessageBreak%
164     LaTeX might run out of memory before this\MessageBreak%
165     (in which case it will notify you)%
166     \@gobble%
167   }%
168 \fi%
169
170

```

The L^AT_EX 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)

```

171 %% Test for new mechanism in LaTeX 2015:
172 \ifx\@alloc\@undefined\relax%
173   %% This is an old LaTeX format, \extrafloats is not available.
174   \PackageWarning{morefloats}{%
175     \fmtname\space <\fmtversion> %
176     \ifx\patch@level\@undefined\relax%
177       \else patch level \patch@level%
178     \fi%
179     \MessageBreak%
180     found. At least\MessageBreak%
181     LaTeX2e <2015/01/01> patch level 2\MessageBreak%
182     is now available\MessageBreak%
183     and can handle even more floats%
184     \@gobble%
185   }%
186 \else%
187   %% This is new in LaTeX 2015, \extrafloats is available.
188   \@ifpackageloaded{etex}%
189   {%% etex package loaded:
190     %% "it overwrites all the new allocation system
191     %% so really \extrafloats shouldn't be expected to work"
192     %% (D. Carlisle, 2015/07/16, who also provided the following
193     %% \extrafloats redefinition).
194     \gdef\extrafloats#1{%
195       \ifnum#1>\z@\relax%
196         \count@\numexpr\float@count-1\relax%
197         \ch@ck0\count@\count\relax%
198         \ch@ck1\count@\dimen\relax%
199         \ch@ck2\count@\skip\relax%
200         \ch@ck4\count@\box\relax%

```

```

201      \e@alloc@chardef\float@count\count@%
202      \expandafter\e@alloc@chardef\csname bx@\the\float@count\endcsname\float@count%
203      \@cons\@freelist{\csname bx@\the\float@count\endcsname}%
204      \expandafter%
205      \extrafloats\expandafter{\numexpr#1-1\relax}%
206      \fi%
207  }%
208 }% etex package not loaded
209 }%
210 \extrafloats{\morefloats@morefloats}%
211 % The part after the test is no longer needed and therefore not loaded:
212 \expandafter\endinput%
213 \fi%
214 %% End of the test for LaTeX 2015 (or newer).
215 %% Not new format, otherwise the last \endinput would have been applied.
216
217 %% Test for e-TeX:
218 \RequirePackage{ifetex}[2011/12/15]% v1.2, replaced by iftex-package nowadays
219 \ifetex%% then we can use code similar to the one from David Carlisle,
220 %%     https://tex.stackexchange.com/a/212483
221 \mathchardef\float@count=32767\relax%
222 \gdef\extrafloats#1{%
223   \ifnum#1>\z@\relax%
224     \count@\numexpr\float@count-1\relax%
225     \ch@ck0\count@\count\relax%
226     \ch@ck1\count@\dimen\relax%
227     \ch@ck2\count@\skip\relax%
228     \ch@ck4\count@\box\relax%
229     \mathchardef\float@count\count@\relax%
230     \expandafter\mathchardef\csname bx@\the\float@count\endcsname\float@count%
231     \@cons\@freelist{\csname bx@\the\float@count\endcsname}%
232     \expandafter%
233     \extrafloats\expandafter{\numexpr#1-1\relax}%
234   \fi}%
235 \extrafloats{\morefloats@morefloats}%
236 \expandafter\endinput%
237 \fi%
238 %% End of the test for e-TeX.
239 %% Old format and not e-TeX,
240 %% otherwise the last \endinput would have been applied.
241
242

```

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.

```

243 \PackageWarning{\morefloats}{%
244   e-TeX is not available here\MessageBreak%
245   but it is available in almost all\MessageBreak%
246   recent TeX distributions.\MessageBreak%
247   Maybe consider updating to one of those%
248   \gobble%
249 }%
250

```

```

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.

251 %% Code similar to the one from Heiko Oberdiek,
252 %% http://permalink.gmane.org/gmane.comp.tex.latex3/2159
253     \tempccta=\the\count10 \relax \def\maxfloats@vln{count} %
254 \ifnum \count11>\tempccta \tempccta=\the\count11 \relax \def\maxfloats@vln{dimen} \fi%
255 \ifnum \count12>\tempccta \tempccta=\the\count12 \relax \def\maxfloats@vln{skip} \fi%
256 \ifnum \count14>\tempccta \tempccta=\the\count14 \relax \def\maxfloats@vln{box} \fi%
257 %% end similar
258 \tempcntb=234\relax%
259 \advance\tempcntb by -\tempccta\relax%
260 \tempccta=\tempcntb\relax%
261 \ifnum\morefloats@mx>\tempcntb\relax%
262     \PackageError{morefloats}{Too many floats requested}{%
263     Maximum number of possible floats asked for: \morefloats@mx .\MessageBreak%
264     There are only \the\tempccta space \maxfloats@vln space left,\MessageBreak%
265     therefore only \the\tempcntb space floats will be possible.\MessageBreak%
266     Load the morefloats package earlier and/or\MessageBreak%
267     reduce the number of used \maxfloats@vln space registers\MessageBreak%
268     to have more floats available!\MessageBreak%
269 }%
270 \xdef\morefloats@mx{\the\tempcntb}%
271 \fi%
272

```

11

The task at hand is to increase L^AT_EX'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 `lplain`, update to L^AT_EX2e!) `lplain.lis` reveals that there is room, in fact, for up to 256 unprocessed floats, but T_EX's main memory could be exhausted well before that happened.

L^AT_EX2e 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 `\@freelist`, which is merely a list of the box registers each preceded by `\@elt`. 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 L^AT_EX boxes.

`\ifnum maxfloats <= 18`, L^AT_EX already allocated the insert registers. `\fi`

```
273 \global\long\def\@freelist{\@elt\bx@A\@elt\bx@B\@elt\bx@C\@elt\bx@D\@elt\bx@E\@elt\bx@F\@elt\bx@G\@elt\bx@H\@elt%
274 \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}
275
```

Now we need to add `\@elt\bx@...` depending on the number of `morefloats` wanted:

(KARL BERRY helped with two out of three `\expandafters`, thanks!)

```
276 \ifnum \morefloats@mx> 18 \newinsert\bx@S \expandafter\gdef\expandafter{\@freelist \@elt\bx@S}
277 \ifnum \morefloats@mx> 19 \newinsert\bx@T \expandafter\gdef\expandafter{\@freelist \@elt\bx@T}
278 \ifnum \morefloats@mx> 20 \newinsert\bx@U \expandafter\gdef\expandafter{\@freelist \@elt\bx@U}
279 \ifnum \morefloats@mx> 21 \newinsert\bx@V \expandafter\gdef\expandafter{\@freelist \@elt\bx@V}
280 \ifnum \morefloats@mx> 22 \newinsert\bx@W \expandafter\gdef\expandafter{\@freelist \@elt\bx@W}
281 \ifnum \morefloats@mx> 23 \newinsert\bx@X \expandafter\gdef\expandafter{\@freelist \@elt\bx@X}
282 \ifnum \morefloats@mx> 24 \newinsert\bx@Y \expandafter\gdef\expandafter{\@freelist \@elt\bx@Y}
283 \ifnum \morefloats@mx> 25 \newinsert\bx@Z \expandafter\gdef\expandafter{\@freelist \@elt\bx@Z}
284 \ifnum \morefloats@mx> 26 \newinsert\bx@AA \expandafter\gdef\expandafter{\@freelist \@elt\bx@AA}
285 \ifnum \morefloats@mx> 27 \newinsert\bx@AB \expandafter\gdef\expandafter{\@freelist \@elt\bx@AB}
286 \ifnum \morefloats@mx> 28 \newinsert\bx@AC \expandafter\gdef\expandafter{\@freelist \@elt\bx@AC}
287 \ifnum \morefloats@mx> 29 \newinsert\bx@AD \expandafter\gdef\expandafter{\@freelist \@elt\bx@AD}
288 \ifnum \morefloats@mx> 30 \newinsert\bx@AE \expandafter\gdef\expandafter{\@freelist \@elt\bx@AE}
289 \ifnum \morefloats@mx> 31 \newinsert\bx@AF \expandafter\gdef\expandafter{\@freelist \@elt\bx@AF}
290 \ifnum \morefloats@mx> 32 \newinsert\bx@AG \expandafter\gdef\expandafter{\@freelist \@elt\bx@AG}
291 \ifnum \morefloats@mx> 33 \newinsert\bx@AH \expandafter\gdef\expandafter{\@freelist \@elt\bx@AH}
292 \ifnum \morefloats@mx> 34 \newinsert\bx@AI \expandafter\gdef\expandafter{\@freelist \@elt\bx@AI}
293 \ifnum \morefloats@mx> 35 \newinsert\bx@AJ \expandafter\gdef\expandafter{\@freelist \@elt\bx@AJ}
```


326 \ifnum \morefloats@mx> 68 \newinsert\bx@BQ \expandafter\gdef\expandafter{\@freelist \@elt\bx@BQ} 327 \ifnum \morefloats@mx> 69 \newinsert\bx@BR \expandafter\gdef\expandafter{\@freelist \@elt\bx@BR} 328 \ifnum \morefloats@mx> 70 \newinsert\bx@BS \expandafter\gdef\expandafter{\@freelist \@elt\bx@BS} 329 \ifnum \morefloats@mx> 71 \newinsert\bx@BT \expandafter\gdef\expandafter{\@freelist \@elt\bx@BT} 330 \ifnum \morefloats@mx> 72 \newinsert\bx@BU \expandafter\gdef\expandafter{\@freelist \@elt\bx@BU} 331 \ifnum \morefloats@mx> 73 \newinsert\bx@BV \expandafter\gdef\expandafter{\@freelist \@elt\bx@BV} 332 \ifnum \morefloats@mx> 74 \newinsert\bx@BW \expandafter\gdef\expandafter{\@freelist \@elt\bx@BW} 333 \ifnum \morefloats@mx> 75 \newinsert\bx@BX \expandafter\gdef\expandafter{\@freelist \@elt\bx@BX} 334 \ifnum \morefloats@mx> 76 \newinsert\bx@BY \expandafter\gdef\expandafter{\@freelist \@elt\bx@BY} 335 \ifnum \morefloats@mx> 77 \newinsert\bx@BZ \expandafter\gdef\expandafter{\@freelist \@elt\bx@BZ} 336 \ifnum \morefloats@mx> 78 \newinsert\bx@CA \expandafter\gdef\expandafter{\@freelist \@elt\bx@CA} 337 \ifnum \morefloats@mx> 79 \newinsert\bx@CB \expandafter\gdef\expandafter{\@freelist \@elt\bx@CB} 338 \ifnum \morefloats@mx> 80 \newinsert\bx@CC \expandafter\gdef\expandafter{\@freelist \@elt\bx@CC} 339 \ifnum \morefloats@mx> 81 \newinsert\bx@CD \expandafter\gdef\expandafter{\@freelist \@elt\bx@CD} 340 \ifnum \morefloats@mx> 82 \newinsert\bx@CE \expandafter\gdef\expandafter{\@freelist \@elt\bx@CE} 341 \ifnum \morefloats@mx> 83 \newinsert\bx@CF \expandafter\gdef\expandafter{\@freelist \@elt\bx@CF} 342 \ifnum \morefloats@mx> 84 \newinsert\bx@CG \expandafter\gdef\expandafter{\@freelist \@elt\bx@CG} 343 \ifnum \morefloats@mx> 85 \newinsert\bx@CH \expandafter\gdef\expandafter{\@freelist \@elt\bx@CH} 344 \ifnum \morefloats@mx> 86 \newinsert\bx@CI \expandafter\gdef\expandafter{\@freelist \@elt\bx@CI} 345 \ifnum \morefloats@mx> 87 \newinsert\bx@CJ \expandafter\gdef\expandafter{\@freelist \@elt\bx@CJ} 346 \ifnum \morefloats@mx> 88 \newinsert\bx@CK \expandafter\gdef\expandafter{\@freelist \@elt\bx@CK} 347 \ifnum \morefloats@mx> 89 \newinsert\bx@CL \expandafter\gdef\expandafter{\@freelist \@elt\bx@CL} 348 \ifnum \morefloats@mx> 90 \newinsert\bx@CM \expandafter\gdef\expandafter{\@freelist \@elt\bx@CM} 349 \ifnum \morefloats@mx> 91 \newinsert\bx@CN \expandafter\gdef\expandafter{\@freelist \@elt\bx@CN} 350 \ifnum \morefloats@mx> 92 \newinsert\bx@CO \expandafter\gdef\expandafter{\@freelist \@elt\bx@CO} 351 \ifnum \morefloats@mx> 93 \newinsert\bx@CP \expandafter\gdef\expandafter{\@freelist \@elt\bx@CP} 352 \ifnum \morefloats@mx> 94 \newinsert\bx@CQ \expandafter\gdef\expandafter{\@freelist \@elt\bx@CQ} 353 \ifnum \morefloats@mx> 95 \newinsert\bx@CR \expandafter\gdef\expandafter{\@freelist \@elt\bx@CR} 354 \ifnum \morefloats@mx> 96 \newinsert\bx@CS \expandafter\gdef\expandafter{\@freelist \@elt\bx@CS} 355 \ifnum \morefloats@mx> 97 \newinsert\bx@CT \expandafter\gdef\expandafter{\@freelist \@elt\bx@CT} 356 \ifnum \morefloats@mx> 98 \newinsert\bx@CU \expandafter\gdef\expandafter{\@freelist \@elt\bx@CU} 357 \ifnum \morefloats@mx> 99 \newinsert\bx@CV \expandafter\gdef\expandafter{\@freelist \@elt\bx@CV}


```
422 \ifnum \morefloats@mx>164 \newinsert\bx@FI \expandafter\gdef\expandafter{\@freelist \c@elt\bx@FI}
423 \ifnum \morefloats@mx>165 \newinsert\bx@FJ \expandafter\gdef\expandafter{\@freelist \c@elt\bx@FJ}
424 \ifnum \morefloats@mx>166 \newinsert\bx@FK \expandafter\gdef\expandafter{\@freelist \c@elt\bx@FK}
425 \ifnum \morefloats@mx>167 \newinsert\bx@FL \expandafter\gdef\expandafter{\@freelist \c@elt\bx@FL}
426 \ifnum \morefloats@mx>168 \newinsert\bx@FM \expandafter\gdef\expandafter{\@freelist \c@elt\bx@FM}
427 \ifnum \morefloats@mx>169 \newinsert\bx@FN \expandafter\gdef\expandafter{\@freelist \c@elt\bx@FN}
428 \ifnum \morefloats@mx>170 \newinsert\bx@FO \expandafter\gdef\expandafter{\@freelist \c@elt\bx@FO}
429 \ifnum \morefloats@mx>171 \newinsert\bx@FP \expandafter\gdef\expandafter{\@freelist \c@elt\bx@FP}
430 \ifnum \morefloats@mx>172 \newinsert\bx@FQ \expandafter\gdef\expandafter{\@freelist \c@elt\bx@FQ}
431 \ifnum \morefloats@mx>173 \newinsert\bx@FR \expandafter\gdef\expandafter{\@freelist \c@elt\bx@FR}
432 \ifnum \morefloats@mx>174 \newinsert\bx@FS \expandafter\gdef\expandafter{\@freelist \c@elt\bx@FS}
433 \ifnum \morefloats@mx>175 \newinsert\bx@FT \expandafter\gdef\expandafter{\@freelist \c@elt\bx@FT}
434 \ifnum \morefloats@mx>176 \newinsert\bx@FU \expandafter\gdef\expandafter{\@freelist \c@elt\bx@FU}
435 \ifnum \morefloats@mx>177 \newinsert\bx@FV \expandafter\gdef\expandafter{\@freelist \c@elt\bx@FV}
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437 \ifnum \morefloats@mx>179 \newinsert\bx@FX \expandafter\gdef\expandafter{\@freelist \c@elt\bx@FX}
438 \ifnum \morefloats@mx>180 \newinsert\bx@FY \expandafter\gdef\expandafter{\@freelist \c@elt\bx@FY}
439 \ifnum \morefloats@mx>181 \newinsert\bx@FZ \expandafter\gdef\expandafter{\@freelist \c@elt\bx@FZ}
440 \ifnum \morefloats@mx>182 \newinsert\bx@GA \expandafter\gdef\expandafter{\@freelist \c@elt\bx@GA}
441 \ifnum \morefloats@mx>183 \newinsert\bx@GB \expandafter\gdef\expandafter{\@freelist \c@elt\bx@GB}
442 \ifnum \morefloats@mx>184 \newinsert\bx@GC \expandafter\gdef\expandafter{\@freelist \c@elt\bx@GC}
443 \ifnum \morefloats@mx>185 \newinsert\bx@GD \expandafter\gdef\expandafter{\@freelist \c@elt\bx@GD}
444 \ifnum \morefloats@mx>186 \newinsert\bx@GE \expandafter\gdef\expandafter{\@freelist \c@elt\bx@GE}
445 \ifnum \morefloats@mx>187 \newinsert\bx@GF \expandafter\gdef\expandafter{\@freelist \c@elt\bx@GF}
446 \ifnum \morefloats@mx>188 \newinsert\bx@GG \expandafter\gdef\expandafter{\@freelist \c@elt\bx@GG}
447 \ifnum \morefloats@mx>189 \newinsert\bx@GH \expandafter\gdef\expandafter{\@freelist \c@elt\bx@GH}
448 \ifnum \morefloats@mx>190 \newinsert\bx@GI \expandafter\gdef\expandafter{\@freelist \c@elt\bx@GI}
449 \ifnum \morefloats@mx>191 \newinsert\bx@GJ \expandafter\gdef\expandafter{\@freelist \c@elt\bx@GJ}
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451 \ifnum \morefloats@mx>193 \newinsert\bx@GL \expandafter\gdef\expandafter{\@freelist \c@elt\bx@GL}
452 \ifnum \morefloats@mx>194 \newinsert\bx@GM \expandafter\gdef\expandafter{\@freelist \c@elt\bx@GM}
453 \ifnum \morefloats@mx>195 \newinsert\bx@GN \expandafter\gdef\expandafter{\@freelist \c@elt\bx@GN}
```



```
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487 \ifnum \morefloats@mx>229 \newinsert\bx@HV \expandafter\gdef\expandafter{@freelist\expandafter{\@freelist \@elt\bx@HV}}
488 \ifnum \morefloats@mx>230 \newinsert\bx@HW \expandafter\gdef\expandafter{@freelist\expandafter{\@freelist \@elt\bx@HW}}
489 \ifnum \morefloats@mx>231 \newinsert\bx@HX \expandafter\gdef\expandafter{@freelist\expandafter{\@freelist \@elt\bx@HX}}
490 \ifnum \morefloats@mx>232 \newinsert\bx@HY \expandafter\gdef\expandafter{@freelist\expandafter{\@freelist \@elt\bx@HY}}
491 \ifnum \morefloats@mx>233 \newinsert\bx@HZ \expandafter\gdef\expandafter{@freelist\expandafter{\@freelist \@elt\bx@HZ}}
492 \ifnum \morefloats@mx>234 \newinsert\bx@IA \expandafter\gdef\expandafter{@freelist\expandafter{\@freelist \@elt\bx@IA}}
493 \ifnum \morefloats@mx>235 \newinsert\bx@IB \expandafter\gdef\expandafter{@freelist\expandafter{\@freelist \@elt\bx@IB}}
494 \ifnum \morefloats@mx>236 \newinsert\bx@IC \expandafter\gdef\expandafter{@freelist\expandafter{\@freelist \@elt\bx@IC}}
495 \ifnum \morefloats@mx>237 \newinsert\bx@ID \expandafter\gdef\expandafter{@freelist\expandafter{\@freelist \@elt\bx@ID}}
496 \ifnum \morefloats@mx>238 \newinsert\bx@IE \expandafter\gdef\expandafter{@freelist\expandafter{\@freelist \@elt\bx@IE}}
497 \ifnum \morefloats@mx>239 \newinsert\bx@IF \expandafter\gdef\expandafter{@freelist\expandafter{\@freelist \@elt\bx@IF}}
498 \ifnum \morefloats@mx>240 \newinsert\bx@IG \expandafter\gdef\expandafter{@freelist\expandafter{\@freelist \@elt\bx@IG}}
499 \ifnum \morefloats@mx>241 \newinsert\bx@IH \expandafter\gdef\expandafter{@freelist\expandafter{\@freelist \@elt\bx@IH}}
500 \ifnum \morefloats@mx>242 \newinsert\bx@II \expandafter\gdef\expandafter{@freelist\expandafter{\@freelist \@elt\bx@II}}
501 \ifnum \morefloats@mx>243 \newinsert\bx@IJ \expandafter\gdef\expandafter{@freelist\expandafter{\@freelist \@elt\bx@IJ}}
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510 \ifnum \morefloats@mx>252 \newinsert\bx@IS \expandafter\gdef\expandafter{@freelist\expandafter{\@freelist \@elt\bx@IS}}
511 \ifnum \morefloats@mx>253 \newinsert\bx@IT \expandafter\gdef\expandafter{@freelist\expandafter{\@freelist \@elt\bx@IT}}
512 \ifnum \morefloats@mx>254 \newinsert\bx@IU \expandafter\gdef\expandafter{@freelist\expandafter{\@freelist \@elt\bx@IU}}
513 \ifnum \morefloats@mx>255 \newinsert\bx@IV \expandafter\gdef\expandafter{@freelist\expandafter{\@freelist \@elt\bx@IV}}
```


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 L^AT_EX 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 L^AT_EX 2 _{ε} (i.e. each document using the **morefloats** package) requires:

- TeXFormat L^AT_EX 2 _{ε} , <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, nowadays replaced by the <https://ctan.org/pkg/iftex> package

regstats To check the number of used registers it was mentioned:

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

Oberdiek All packages of HEIKO OBERDIEK's bundle 'oberdiek' (especially holtxdoc, hyp-holtxdoc doc, and kvoptions) are also available in a TDS compliant ZIP archive:

hypdoc <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 **TEX**:

```
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):

morefloats.sty	→ tex/latex/morefloats/morefloats.sty
morefloats.pdf	→ doc/latex/morefloats/morefloats.pdf
morefloats-example.tex	→ doc/latex/morefloats/morefloats-example.tex
morefloats-example.pdf	→ doc/latex/morefloats/morefloats-example.pdf
morefloats.dtx	→ source/latex/morefloats/morefloats.dtx

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

L^AT_EX 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` and 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).

8 History

[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 `\lscape` 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 L^AT_EX 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^AT_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.

[2025/01/28 v1.1a]

- Converted to UTF-8 and new format.

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.)

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