1 Introduction

Prior to the 2015 release of \LaTeX{}, essentially no changes had been made to the \LaTeX{} format code for some years, with all improvements being instead added to the package \texttt{fixltx2e}.

While this worked at a technical level it meant that you had to explicitly opt-in to bug fixes and improvements, and the vast majority of documents did not benefit.

As described in \LaTeX{} News 22, a new policy is being implemented in which improvements will now be added to the format by default, and this \texttt{latexrelease} package may be used to ensure stability where needed, either by making a new format use an older definition of some commands, or conversely may be used to supply the new definitions for use with an old format.

The basic use is:

\begin{verbatim}
\RequirePackage[2015/01/01]{latexrelease}
\documentclass{article}
\end{verbatim}

After such a declaration the document will use definitions current in the January 2015 \LaTeX{}, whether the actual format being used is older, or newer than that date. In the former case a copy of \texttt{latexrelease.sty} would need to be made available for use with the older format. This may be used, for example, to share a document between co-workers using different \LaTeX{} releases, or to protect a document from being affected by system updates. As well as the definitions within the format itself, individual packages may use the commands defined here to adjust their definitions to the specified date as described below.

Note that the \texttt{latexrelease} package is intended for use at the start of a document. Package and class code should not include this package as loading a package should not normally globally reset the effective version of \LaTeX{} that is in force, so affecting all other packages used in the document.

\footnote{This file has version number v1.0n, last revised 2021/04/29.}
The bulk of this package, after some initial setup and option handling consists of a series of \IncludeInRelease commands which have been extracted from the main source files of the \LaTeX format. These contain the old and new versions of any commands with modified definitions.

2 Package Options

- \texttt{yyyy/mm/dd} or \texttt{yyyy-nn-dd} The package accepts any possible \LaTeX format date as argument, although dates in the future for which the current release of this package has no information will generate a warning. Dates earlier than 2015 will work but will roll back to some point in 2015 when the method was introduced. The \texttt{\requestedLaTeXdate} is set to the normalized date argument so that package rollback defaults to the specified date.

- \texttt{current} This is the default behaviour, it does not change the effective date of the format but does ensure that the \IncludeInRelease command is defined. The \texttt{\requestedLaTeXdate} macro is reset to 0 so that package rollback does not use the implicit date.

- \texttt{latest} sets the effective date of the format to the release date of this file, so in an older format applies all patches currently available. The \texttt{\requestedLaTeXdate} macro is reset to 0 so that package rollback does not use the implicit date.

In all cases, when the package is loaded, the \texttt{\sourceLaTeXdate} is defined to be the numerical representation of \texttt{\fmtversion} before the rollback/forward actually happens, so it is possible to test from which was the original \LaTeX version before \texttt{latexrelease} was loaded. This is particularly useful when some code in a package has to be redefined differently if rolling backwards in time or forwards.

3 Release Specific Code

The \IncludeInRelease mechanism allows the kernel developer to associate code with a specific date to choose different versions of definitions depending on the date specified as an option to the \texttt{latexrelease} package. Is also available for use by package authors (or even in a document if necessary).

\begin{verbatim}
\IncludeInRelease \{\langle code-date\rangle\}\{\langle format-date\rangle\}\{\langle label\rangle\}\{\langle message\rangle\}\{\langle code\rangle\}\EndIncludeInRelease
\end{verbatim}

\texttt{\{\langle code-date\rangle\}} This date is associated with the \texttt{\{\langle code\rangle\}} argument and will be compared to the requested date in the option to the \texttt{latexrelease}.

\texttt{\{\langle format-date\rangle\}} This optional argument can be used to specify a format date with the code in addition to the mandatory \texttt{\{\langle code-date\rangle\}} argument. This can be useful for package developers as described below.

\texttt{\{\langle label\rangle\}} The \texttt{\{\langle label\rangle\}} argument is an identifier (string) that within a given package must be a unique label for each related set of optional definitions. Per package at most one code block from all the \IncludeInRelease declarations with the same label will be executed.

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\{message\}: The \{message\} is an informative string that is used in messages. It has no other function.

\{code\}: Any \TeX code after the \texttt{\IncludeInRelease} arguments up until the and the following \texttt{\EndIncludeInRelease} is to be conditionally included depending on the date of the format as described below.

The \texttt{\IncludeInRelease} declarations with a given label should be in reverse chronological order in the file. The one chosen will depend on this order, the effective format version and the date options, as described below.

If your package \texttt{mypackage} defines a \texttt{\widget} command but has one definition using the features available in the 2015 \texttt{\LaTeX} release, and a different definition is required for older formats then you can use:

\begin{verbatim}
\IncludeInRelease{2015/01/01}{\widget}{Widget Definition}
\def\widget{new version}\
\EndIncludeInRelease

\IncludeInRelease{0000/00/00}{\widget}{Widget Definition}
\def\widget{old version}\
\EndIncludeInRelease
\end{verbatim}

If a document using this package is used with a format with effective release date of 2015/01/01 or later the new code will be used, otherwise the old code will be used. Note the \texttt{effective release date} might be the original \texttt{\LaTeX} release date as shown at the start of every \texttt{\LaTeX} job, or it may be set by the \texttt{latexrelease} package, so for example a document author who wants to ensure the new version is used could use:

\begin{verbatim}
\RequirePackage[2015/01/01]{latexrelease}
documentclass{article}\
usepackage{mypackage}
\end{verbatim}

If the document is used with a \texttt{\LaTeX} format from 2014 or before, then \texttt{latexrelease} will not have been part of the original distribution, but it may be obtained from a later \texttt{\LaTeX} release or from CTAN and distributed with the document, it will make an older \texttt{\LaTeX} release act essentially like the 2015 release.

### 3.1 Intermediate Package Releases

The above example works well for testing against the \texttt{latex} format but is not always ideal for controlling code by the release date of the \texttt{package}. Suppose \texttt{\LaTeX} is not updated but in March you update the \texttt{mypackage} package and modify the definition of \texttt{\widget}. You could code the package as:

\begin{verbatim}
\IncludeInRelease{2015/03/01}{\widget}{Widget Definition}
\def\widget{even newer improved March version}\
\EndIncludeInRelease

\IncludeInRelease{2015/01/01}{\widget}{Widget Definition}
\def\widget{new version}\
\EndIncludeInRelease

\IncludeInRelease{0000/00/00}{\widget}{Widget Definition}
\end{verbatim}

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This would work and allow a document author to choose a date such as

\RequirePackage[2015/03/01]{latexrelease}
\documentclass{article}
\usepackage{mypackage}

To use the latest version, however it would have disadvantage that until the next release of \LaTeX\, by default, if the document does not use \texttt{latexrelease} to specify a date, the new improved code will not be selected as the effective date will be 2015/01/01 and so the first code block will be skipped.

For this reason \texttt{\IncludeInRelease} has an optional argument that specifies an alternative date to use if a date option has not been specified to \texttt{latexrelease}.

\IncludeInRelease{2015/03/01}{2015/01/01}{\widget}{Widget Definition}
\def\widget{even newer improved March version}\
\EndIncludeInRelease

\IncludeInRelease{2015/01/01}{\widget}{Widget Definition}
\def\widget{new version}\
\EndIncludeInRelease

\IncludeInRelease{0000/00/00}{\widget}{Widget Definition}
\def\widget{old version}\
\EndIncludeInRelease

Now, by default on a 2015/01/01 \LaTeX\ format, the first code block will compare the format date to the optional argument 2015/01/01 and so will execute the \texttt{even newer improved} version. The remaining blocks using the \texttt{\widget} label argument will all then be skipped.

If on the other hand the document requests an explicit release date using \texttt{latexrelease} then this date will be used to decide what code block to include.

3.2 Using \texttt{\IncludeInRelease} in Packages

If \texttt{\IncludeInRelease} is used within a package then all such conditional code needs to be within such declarations, e.g., it is not possible in the above example to have the “current” definition of \texttt{\widget} somewhere in the main code and only the two older definitions inside \texttt{\IncludeInRelease} declarations. If you would do this then one of those \texttt{\IncludeInRelease} declarations would be included overwriting the even newer code in the main part of the package. As a result your package may get fragmented over time with various \texttt{\IncludeInRelease} declarations sprinkled throughout your code or you have to interrupt the reading flow by putting those declarations together but not necessarily in the place where they belong.

To avoid this issue you can use the following coding strategy: place the current \texttt{\widget} definition in the main code where it correctly belongs.

\def\widget {\texttt{even never improved March version}}
\def\@widget{\texttt{newly added helper command no defined in older releases}}
\...

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Then, near the end of your package place the following:

\IncludeInRelease{2015/03/01}{2015/01/01}{\widget}{Widget Definition}
\EndIncludeInRelease

\IncludeInRelease{2015/01/01}{\widget}{Widget Definition}
\def\widget{new version}%
\let\@widget\@undefined % this doesn't exist in earlier releases
\EndIncludeInRelease

\IncludeInRelease{0000/00/00}{\widget}{Widget Definition}
\def\widget{old version}%
\EndIncludeInRelease

This way the empty code block hides the other \IncludeInRelease declarations unless there is an explicit request with a date 2015/01/01 or earlier.

Now if you make a further change to \widget in the future you simply copy the current definition into the empty block and add a new empty declaration with today’s date and the current format date. This way your main code stays readable and the old versions accumulate at the end of the package.\footnote{Of course there may be some cases in which the old code has to be in a specific place within the package as other code depends on it (e.g., if you \let something to it). In that case you have to place the code variations in the right place in your package rather than accumulating them at the very end.}

The only other “extra effort” necessary when using this approach is that it may be advisable to undo new definitions in the code block for the previous release, e.g., in the above example we undefined \@widget as that isn’t available in the 2015/01/01 release but was defined in the main code. If all your conditional code is within \IncludeInRelease declarations that wouldn’t been necessary as the new code only gets defined if that release is chosen.

\section{Declaring entire modules}

Sometimes a large chunk of code is added as a module to another larger code base. As example of that in the 2020-10-01 release \LaTeX got a new hook management system, lthooks, which was added in one go and, as with all changes to the kernel, it was added to \latexrelease. However rolling back from a future date to the 2020-10-01 release didn’t work because \latexrelease would try to define again all those commands, which would result in many “already defined” errors and similar issues.

To solve that problem, completely new modules can be defined in \latexrelease using the commands:

\NewModuleRelease{⟨initial release date⟩}{⟨name⟩}{⟨message⟩}{⟨module code⟩}
\IncludeInRelease{0000/00/00}{⟨name⟩}{⟨message⟩}{⟨undefine module code⟩}
\EndModuleRelease

With that setup, the module ⟨name⟩ will be declared to exist only in releases equal or later ⟨initial release date⟩.
If \texttt{latexrelease} is rolling backwards or forwards between dates after \textit{⟨initial release date⟩}, then all the \textit{⟨module code⟩} is skipped, except when inside \texttt{\IncludeInRelease} guards, in which case the code is applied or skipped as discussed above.

If rolling forward from a date before the module's \textit{⟨initial release date⟩} to a date after that, then all the \textit{⟨module code⟩} is executed to define the module, and \texttt{\IncludeInRelease} guards are executed accordingly, depending on the date declared and the target date.

If \texttt{latexrelease} is rolling back to a date before \textit{⟨release date⟩}, then the code in the \texttt{\IncludeInRelease} guard dated \texttt{0000/00/00} is executed instead to undefine the module. This guard is \textit{not} ended by the usual \texttt{\EndIncludeInRelease}, but instead by \texttt{\EndModuleRelease}.

Finally, if rolling backwards or forwards between dates both before \textit{⟨initial release date⟩}, the entire code between \texttt{\NewModuleRelease} and \texttt{\EndModuleRelease} is entirely skipped.

4.1 Example

Here is an example usage of the structure described above, as it would be used in the \LaTeX{} kernel, taking \texttt{lthooks} as example:

\begin{verbatim}
\%<*2ekernel|latexrelease>
\ExplSyntaxOn
\%\texttt{\NewModuleRelease} \texttt{\IncludeInRelease} \texttt{\AddToHook} \texttt{\EndIncludeInRelease} \texttt{\EndModuleRelease}
\%\ExplSyntaxOff
\end{verbatim}

In the example above, \texttt{\NewHook} is declared only once, and unchanged in the next release (2021/06/01 in the example), so it has no \texttt{\IncludeInRelease} guards, and will only be defined if needed. \texttt{\AddToHook}, on the other hand, changed between the two releases (made up for the example; it didn’t really happen) and has an \texttt{\IncludeInRelease} block for the current release (off \texttt{docstrip} guards, so it goes into the kernel too), and another for the previous release (in \texttt{docstrip} guards so it goes only into \texttt{latexrelease}).

Note that in the example above, \texttt{\ExplSyntaxOn} and \texttt{\ExplSyntaxOff} were added \textit{outside} the module code because, as discussed above, sometimes the code
outside \IncludeInRelease guards may be skipped, but not the code inside them, and in that case the catcodes would be wrong when defining the code.

## 5 fixltx2e

As noted above, prior to the 2015 \LaTeX{} release updates to the \LaTeX{} kernel were not made in the format source files but were made available in the fixltx2e package. That package is no longer needed but we generate a small package from this source that just makes a warning message but otherwise does nothing.

## 6 Implementation

We require at least a somewhat sane version of \LaTeX{} 2ε. Earlier ones where really quite different from one another.

\begin{verbatim}
1 ⟨*latexrelease⟩
2 \NeedsTeXFormat{LaTeX2e}[1996/06/01]
\end{verbatim}

### 6.1 Setup

\begin{verbatim}
\sourceLaTeXdate
Store the original \LaTeX{} format version as a number in the format YYYYMMDD. This macro has to be defined conditionally, so that it isn’t changed in case latexrelease.sty is loaded twice (for tests), but it can’t be defined in the kernel only, otherwise latexrelease.sty wouldn’t work in older \LaTeX{} due to the missing macro.
3 \@ifundefined{sourceLaTeXdate}{\edef\sourceLaTeXdate{\expandafter\@parse@version\fmtversion//00\@nil}}{}%
\IncludeInRelease
\sourceLaTeXdate
\EndIncludeInRelease
These are defined in \dtx{ltvers}.
4 \DeclareOption*{\def\@IncludeInRelease#1[#2]{\@IncludeInRele@se{#1}}}
5 \let\requestedpatchdate\CurrentOption
6 \DeclareOption{latest}{\let\requestedpatchdate\latexreleaseversion}
7 \AtEndOfPackage{\def\requestedLaTeXdate{0}}
8 \DeclareOption{current}{\let\requestedpatchdate\fmtversion}
9 \AtEndOfPackage{\def\requestedLaTeXdate{0}}
10 \\ProcessOptions\relax
11
\end{verbatim}

Sanity check options, it allows some non-legal dates but always ensures \texttt{requestedLaTeXdate} gets set to a number. Generate an error if there are any non digit tokens remaining after removing the //.

\begin{verbatim}
12 \def\reserved@a{\edef\requestedLaTeXdate{\the\count@}}
13 \reserved@b
\end{verbatim}

\texttt{\textbackslash def\textbackslash requestedLaTeXdate\{\textbackslash the\textbackslash count\textbackslash 0\}}

\texttt{\textbackslash reserved@b}
\texttt{\textbackslash def\textbackslash reserved@b#1\{\textbackslash%}
\texttt{\textbackslash reserved@b\textbackslash \empty\textbackslash else}
\PackageError{latexrelease}{\{Unexpected option \requestedpatchdate\}}{\{The option must be of the form yyyy/mm/dd or yyyy-mm-dd\}}
\fi
\afterassignment\reserved@a
\count0\expandafter
\@parse@version\expandafter0\requestedpatchdate//00\@nil\
less precautions needed for \fmtversion
\edef\currentLaTeXdate{\@parse@version\fmtversion//00\@nil}
\ifnum\requestedLaTeXdate=\currentLaTeXdate
\PackageWarningNoLine{latexrelease}{Current format date selected, no patches applied}
\expandafter\endinput
\fi
A newer version of latexrelease should have been distributed with the later format.
\ifndef\currentLaTeXdate
\@expandafter\@parse@version\latexreleaseversion//00\@nil
\PackageWarningNoLine{latexrelease}{The current package is for an older LaTeX\space version:\MessageBreak LaTeX \latexreleaseversion\space\MessageBreak Obtain a newer version of this package!}
\expandafter\endinput
\fi
can’t patch into the future, could make this an error but it has some uses to control package updates so allow for now.
\ifndef\currentLaTeXdate
\@expandafter\@parse@version\latexreleaseversion//00\@nil
\PackageWarningNoLine{latexrelease}{The current package is for LaTeX \latexreleaseversion:\MessageBreak It has no patches beyond that date\MessageBreak There may be an updated version\MessageBreak of this package available from CTAN}
\expandafter\endinput
\fi
Update the format version to the requested date.
\let\fmtversion\requestedpatchdate
\let\currentLaTeXdate\requestedLaTeXdate

6.2 Ignoring _new_ errors when rolling back

Enforce \ExplSyntaxOn and \ExplSyntaxOff to be \relax in latexrelease if they are not yet defined. They are later restored to be undefined if needed.
\csname ExpI\endcsname\ExplSyntaxOn\endcsname
\csname ExpI\endcsname\ExplSyntaxOff\endcsname

Define a set of changes here, but we’ll only use them later to make sure they are applied after expl3 is loaded. If loading from a rather old format, we don’t have \ExplSyntaxOn yet.
First we’ll define a `\declarecommand` that does `\renewcommand` if the command being defined already exists, and `\newcommand` otherwise.

Then define a version of `\e@alloc` that checks if the control sequence being defined already exists, and if so, checks if its meaning is the same as the one that would be defined with the call to `\e@alloc`. If both tests pass, nothing is defined to save a register. This version also takes care of setting `allocationnumber` to the value it would have after the register is allocated.

Walk through the meaning of the control sequence token by token, looking for the register allocation number.

When found, check if it is the exact same register as it would be allocated, and if it is, set `allocationnumber` accordingly and exit, otherwise undefine the register and allocate from scratch.
Now create a token list to hold the list of changed commands, and define a temporary macro that will loop through the command list, store each in \l_@@_restores_tl, save a copy, and redefine each.

```
\tl_clear_new:N \l_@@_restores_tl
\cs_gset:Npn \@@_tmp:w #1 #2
  { \quark_if_recursion_tail_stop_do:Nn #1
      { \cs_undefine:N \@@_tmp:w }
      \tl_put_right:Nn \l_@@_restores_tl {#1}
      \cs_set_eq:cN { @@_ \cs_to_str:N #1 } #1
      \cs_set_eq:NN #1 #2
      \@@_tmp:w
  }
```

The redefinitions below are needed because:

\_\_kernel_chk_if_free_cs:N This function is used ubiquitously in the l3kernel to check if a control sequence is definable, and give an error otherwise (similar to \@ifdefinable). Making it a no-op is enough for most cases (except when defining new registers);

\e@alloc In the case of new registers, we waste an allocation number if we do \new\meta {thing} in a register that’s already allocated, so the redefinition of \e@alloc checks if the new register is really necessary. This code does not clear the register, which might cause problems in the future, if a register is allocated but not properly cleared before using;

\_\_kernel_msg_error:nnx This command is used to error on already defined scan marks. Just making the error do nothing is enough, as no action is taken in that case;

\msg_new:nnnn Used to define new messages. Making it \_gset is enough. Other msg commands like \msg_new:nnn and \_\_kernel_msg_new:nnn(n) are defined in terms of \msg_new:nnnn, so there is no need to change the other ones;

\NewDocumentCommand Used to define user-level commands in the kernel. Making it equal to \DeclareDocumentCommand solves the problem;

\newcommand Same as above.

And here we go:

```
\@@_tmp:w
\__kernel_chk_if_free_cs:N \use_none:n
\e@alloc \@@_e@alloc:NnnnnN
\__kernel_msg_error:nnx \use_none:nnn
\msg_new:nnnn \msg_gset:nnnn
```

10
\NewDocumentCommand \DeclareDocumentCommand
\newcommand \@@_declare_command:w

Temp addition ...
\_kernel_msg_error:nnn \use_none:nnn % needed while redirect for kernel msgs doesn't work
\q_recursion_tail \q_recursion_tail
\q_recursion_stop

Finally, redirect the error thrown by \NewHook to nowhere so it can be safely reused (the hook isn’t redeclared if it already exists).
\msg_redirect_name:nnn { hooks } { exists } { none }
\endgroup

6.3 Undoing the temp modifications

If \ExplSyntaxOn exists (defined and not equal \relax), then use the expl3 restore code, otherwise restore \ExplSyntaxOn and \ExplSyntaxOff to be undefined.
\ExplSyntaxOff}

6.4 Individual Changes

The code for each change will be inserted at this point, extracted from the kernel source files.

6.5 fixltx2e

Generate a stub fixltx2e package:
\NeedsTeXFormat{LaTeX2e}
\PackageWarningNoLine{fixltx2e}{fixltx2e is not required with releases after 2015}
\PackageWarning{latexrelease}{All fixes are now in the LaTeX kernel. See the latexrelease package for details}
\EndIncludeInRelease
\IncludeInRelease{0000/00/00}{fixltxe}{Old fixltx2e package}
\def\@outputdblcol{%}
  \if@firstcolumn
    \globa\@firstcolumnfalse
    \global\setbox\@leftcolumn\copy\@outputbox
    \setbox\@outputbox\vbox{%\unvbox\@outputbox\unskip}%
    \setbox\@outputbox\vsplit\@outputbox to\maxdimen
    \toks0\expandafter{\topmark}%
    \xdef\@firstcoltopmark{\the\toks0}%
    \toks0\expandafter{\splitfirstmark}%
    \xdef\@firstcolfirstmark{\the\toks0}%
    \ifx\@firstcolfirstmark\@empty
      \global\let\@setmarks\relax
    \else
      \edef\@firstcolfirstmark{}%\setbox\@outputbox\vbox{%\hfil
    \vbadness\maxdimen
    \setbox\@outputbox\vbox{%\unvbox\@outputbox\unskip}%
    \setbox\@outputbox\vsplit\@outputbox to\maxdimen
    \toks0\expandafter{\topmark}%
    \xdef\@firstcoltopmark{\the\toks0}%
    \toks0\expandafter{\splitfirstmark}%
    \xdef\@firstcolfirstmark{\the\toks0}%
    \ifx\@firstcolfirstmark\@empty
      \global\let\@setmarks\relax
    \else
      \edef\@firstcolfirstmark{}%
    \fi
    \if@twocolumn
      \@endfloatbox
      \ifnum\@floatpenalty <\z@\fi
      \global\dp\currbox\@skip%
      \global\prevdepth\global\@tempdim\penalty\@Miii
      \@tempdim\prevdepth
  \else
    \begin{floating}
    \fi
\end{floating}
\@twocolumn
\vbox{}
\prevdepth\@tempdim a
\penalty\@floatpenalty
\else
\vadjust{\penalty -\@Miv \vbox{\penalty\@floatpenalty}\@Esphack
\fi
\fi
\else
\end@float
\fi
\else
\edef\@testwrongwidth #1{%
\ifdim\dp#1=\f@depth
\else
\global\@testtrue
\fi}
\let\f@depth\z@}
\def\@dblfloatplacement{|global|\@dbltopnum|c|\@dbltopnumber
\global|\@dbltop |\@colht
\@textmin |\@colht
\@advance |\@textmin -|\@dbltoproom
\@fpmin |\@dblfloatpagefraction|\textheight
\@ftop |\@dblftop
\@fsep |\@dblfpsep
\@fpbot |\@dblfpbot
\def\f@depth{1sp}}
\def\@doclearpage {%
\ifvoid\footins\setbox\@tempboxa|vsplit|@cclv to\z@ \unvbox\@tempboxa
\setbox\@tempboxa\box|@cclv
\xdef\@deferlist|@toplist|@botlist|@deferlist%
\global \let |@toplist |@empty
\global |\let \@botlist |@empty
\global |\let \@colroom |@colht
\ifx \@currlist\@empty
\else
\latexerr{Float(s) lost}@ehb
\global \let \@currlist |@empty
\fi
\@makefcolumn\@deferlist
\@whilesw\if@fcolmade \fi{
@opcol \@makefcolumn\@deferlist
\if@twocolumn
\if@firstcolumn
\xdef\@deferlist|@dbltoplist|@deferlist%
\global |\let \@dbltoplist |@empty
\global \@colht |\textheight
\begingroup
\@dblfloatplacement
\@makefcolumn\@deferlist
\@whilesw\if@fcolmade \fi{|@opcol|@makefcolumn\@deferlist%
\if@twocolumn
\@if@firstcolumn
\xdef|@deferlist|@dbltoplist|@deferlist%
\global \let \@dbltoplist |@empty
\global \@colht \textheight
\begingroup
\@dblfloatplacement
\@makefcolumn\@deferlist
\@whilesw\if@fcolmade \fi{|@outputpage
\@makefcolumn\@deferlist%
\endgroup
\else
\vbox{\}clearpage
\vskip\@tempskipb
\endgroup
\vskip -\@tempskipb
\vskip \@tempskipb
\fi
\fi
\else
\@noitemerr
\fi}
def@fnsymbol#1{%
\ifcase#1\or \TextOrMath\textasteriskcentered *\or
\TextOrMath \textdagger \dagger\or
\TextOrMath \textdaggerdbl \ddagger \or
\TextOrMath \textsection \mathsection\or
\TextOrMath \textparagraph \mathparagraph\or
\TextOrMath \textbardbl \|\or
\TextOrMath {\textasteriskcentered\textasteriskcentered}{**}\or
\TextOrMath {\textdagger\textdagger}{\dagger\dagger}\or
\TextOrMath {\textdaggerdbl\textdaggerdbl}{\ddagger\ddagger}\else
\@ctrerr \fi}
def\@fnsymbol#1{%
\ifcase#1\or \TextOrMath\textasteriskcentered *\or
\TextOrMath \textdagger \dagger\or
\TextOrMath \textdaggerdbl \ddagger \or
\TextOrMath \textsection \mathsection\or
\TextOrMath \textparagraph \mathparagraph\or
\TextOrMath \textbardbl \|\or
\TextOrMath {\textasteriskcentered\textasteriskcentered}{**}\or
\TextOrMath {\textdagger\textdagger}{\dagger\dagger}\or
\TextOrMath {\textdaggerdbl\textdaggerdbl}{\ddagger\ddagger}\else
\@ctrerr \fi}
def\@fnsymbol#1{%
\ifcase#1\or \TextOrMath\textasteriskcentered *\or
\TextOrMath \textdagger \dagger\or
\TextOrMath \textdaggerdbl \ddagger \or
\TextOrMath \textsection \mathsection\or
\TextOrMath \textparagraph \mathparagraph\or
\TextOrMath \textbardbl \|\or
\TextOrMath {\textasteriskcentered\textasteriskcentered}{**}\or
\TextOrMath {\textdagger\textdagger}{\dagger\dagger}\or
\TextOrMath {\textdaggerdbl\textdaggerdbl}{\ddagger\ddagger}\else
\@ctrerr \fi}
def\@fnsymbol#1{%
\ifcase#1\or \TextOrMath\textasteriskcentered *\or
\TextOrMath \textdagger \dagger\or
\TextOrMath \textdaggerdbl \ddagger \or
\TextOrMath \textsection \mathsection\or
\TextOrMath \textparagraph \mathparagraph\or
\TextOrMath \textbardbl \|\or
\TextOrMath {\textasteriskcentered\textasteriskcentered}{**}\or
\TextOrMath {\textdagger\textdagger}{\dagger\dagger}\or
\TextOrMath {\textdaggerdbl\textdaggerdbl}{\ddagger\ddagger}\else
\@ctrerr \fi}
def\@fnsymbol#1{%
\ifcase#1\or \TextOrMath\textasteriskcentered *\or
\TextOrMath \textdagger \dagger\or
\TextOrMath \textdaggerdbl \ddagger \or
\TextOrMath \textsection \mathsection\or
\TextOrMath \textparagraph \mathparagraph\or
\TextOrMath \textbardbl \|\or
\TextOrMath {\textasteriskcentered\textasteriskcentered}{**}\or
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% \@tempcntb \csname ftype@\@captype \endcsname
\multiply \@tempcntb \@xxxii
\advance \@tempcnta \@tempcntb
\global \count \@currbox \@tempcnta
}% \@fltovf
\fi
\global \setbox \@currbox \color@vbox
\normalcolor
\vbox \bgroup
\hsize \columnwidth
\@parboxrestore
\@floatboxreset
\endgroup
}
def\@stpel@i{\global\csname c@#1\endcsname \m@ne\stepcounter{#1}}
\EndIncludeInRelease
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