The file syntonly.dtx for use with $\mbox{ } \mbox{ } \$

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This file is maintained by the LATEX Project team. Bug reports can be opened (category latex) at https://latex-project.org/bugs.html.

This package implements the \syntaxonly declaration for $\text{ETEX} 2_{\mathcal{E}}$. This command can be used in the preamble for running a document through ETEX without actually getting any output.

1 Identification

We identify the package and its current version.

```
1 {package}\ProvidesPackage{syntonly}
2 {*dtx}
3 \ProvidesFile{syntonly.dtx}
4 {/dtx}
5 {*package | dtx}
6 [2024/02/08 v2.1e Standard LaTeX2e package]
7 {/package | dtx}
```

2 Implementation

 $8 \langle * package \rangle$

\dummyft@ First of all we need to define the 'dummy' font. 9 \font\dummyft@=dummy \relax

\ifsyntax@ Now we can define the 'syntax only' feature. We define a switch \if@syntax so
that any macro can always find out if it is really supposed to typeset text. Its
default is to run in normal mode.

10 \newif\ifsyntax@
11 \syntax@false

\syntaxonly The \syntaxonly macro sets up everything for syntax checking.
12 \def\syntaxonly{%

^{*}This file has version number v2.1e, dated 2024/02/08.

First of all it sets the syntax@ switch to true.

13 \syntax@true

Then it globally sets all fonts to the dummy font. These are: the current font outside math mode,

14 $\global\dummyft@$

and the 3×16 math fonts for the 16 math groups. We use a loop to set these.

- 15 \count@\sixt@@n
- 16 \loop
- 18 \advance\count@\m@ne
- 19 \global\textfont\count@\dummyft@
- 20 \global\scriptfont\count@\dummyft@
- 21 \global\scriptscriptfont\count@\dummyft@
- 22 \repeat

Since all font changes occur either via \selectfont (in text) or \mathversion (for math mode), it is sufficient to change these to no-ops. In addition we must prevent the loading of math fonts, this is done by making \getanddefine@fonts a no-op.

- 23 \global\let\selectfont\relax
- 24 \global\let\mathversion\@gobble
- $25 \qquad \verb+\global+let+getanddefine@fonts+@gobbletwo$

We prevent TFX from complaining about the dummy font having no characters.

26 \tracinglostchars\z@

Then we disable the output routine, and set \frenchspacing (which is slightly faster than \nonfrenchspacing). Finally we set \hbadness to 10000 to avoid overfull box messages.

- 27 \nopages@
- 28 \frenchspacing
- 29 $\bdm \M \$
- \nopages@ The \nopages@ macro disables the LATEX output routine. To this end we define a
 very simple output routine that empties the output and footnote boxes (remember
 that the latter are insertions).

30 \def\nopages@{%

31	\output	{\setbox\z@\box\@cclv
32		\setbox\z@\box\footins
33		\deadcycles\z0}%

Then we protect it against definition by a style file.

34 \newtoks\output

But this is not enough: normally the IATEX output routine is responsible for dealing with floating objects. We therefore also redefine the internal macros for handling floats and marginpars.

35 \def\@xfloat##1[##2]{%

There are a few things that have to be retained: the definition of \@captype since it is used by the \caption command,

36 \def\@captype{##1}%

the error message issued when not in outer paragraph mode,

37 \ifinner\@parmoderr\fi

and the **\@parboxrestore** command for the body of the float. This is necessary since it restores the original definitions of important commands like **\par** or ****.

38 \setbox\@tempboxa\vbox\bgroup\@parboxrestore}%

\end@float must now only close the brace:

39 \let\end@float\egroup

The above would be enough also for two-column floats with the kernel algorithm. However with the refined algorithm inside fixlxt2e this doesn't any longer work, so there we also need to explicitly overwrite the end macro for two-column floats (the begin is still okay as it resolves to \@xfloat eventually).

40 \let\end@dblfloat\egroup

The redefinition of the \marginpar command is a bit more complicated since we have to check for the optional argument. First we redefine the command itself:

41 $\def\marginpar{\ifinner\@parmoderr\fi$

We open a group so that everything gathered in a temporary box can easily be thrown away by closing it again (see below).

42 \begingroup \@ifnextchar [\@xmpar\@ympar}

\Cxmpar and \Cympar are now defined similar to \Cxfloat above. If an optional argument is present \Cxmpar typesets it in a temporary box that is thrown away later. Then it calls up \Cympar to process \marginpar's argument.

```
43 \log\left(\frac{1}{2}\right)
```

\@ympar gathers its argument in the same temporary box and throws away its contents by closing the group opened up in \marginpar above.

```
45 \long\def\0ympar##1{%}
```

```
46 \setbox\@tempboxa\vbox{\@parboxrestore ##1}\endgroup}%
```

```
And that's all we had to do.
```

47 }

```
\Opreamblecmds We disable the use of the \syntaxonly command after \begin{document}
```

48 \@onlypreamble\syntaxonly 49 $\langle /package \rangle$