

The file **syntonly.dtx** for use with L^AT_EX 2 _{ε} .*

It contains the code for **syntonly.sty**

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April 5, 2008

This package implements the \syntaxonly declaration for L^AT_EX 2 _{ε} . This command can be used in the preamble for running a document through L^AT_EX 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 
```

```
5 <package | dtx>
6 [1999/09/17 v2.1e Standard LATEX2e package]
7 
```

2 Implementation

8 <package>

\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{%
```

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
17     \ifnum\count@ > \z@
18       \advance\count@\m@ne
19       \global\textfont\count@\dummyft@
20       \global\scriptfont\count@\dummyft@
21       \global\scriptscriptfont\count@\dummyft@
22   \repeat
```

*This file has version number v2.1e, dated 1999/09/17.

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   \global\let\getanddefine@fonts\@gobbletwo
```

We prevent TeX 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   \hbadness\@M{}
```

- `\nopages@%` The `\nopages@` macro disables the L^AT_EX 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\z@}%
34 }
```

Then we protect it against definition by a style file.

```
34 \newtoks\output
```

But this is not enough: normally the L^AT_EX 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 `\@capttype` since it is used by the `\caption` command,

```
36   \def\@capttype{##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}%
39 }
```

`\end@float` must now only close the brace:

```
39 \let\end@float\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:

```
40 \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).

```
41   \begingroup \ifnextchar [\@xmpar\@ympar}
```

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

```
42   \long\def\@xmpar[##1]{%
```

```
43   \setbox\@tempboxa\vbox{\@parboxrestore ##1}\@ympar}%
44 }
```

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

```
44 \long\def\@ympar##1{%
```

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

And that's all we had to do.

46 }

\@preamblecmds We disable the use of the \syntaxonly command after \begin{document}
47 \only\syntaxonly
48 </package>