

L^AT_EX News

Issue 32, October 2020

Contents

Introduction	1
Other changes to the L^AT_EX kernel	1
<code>\symbol</code> in math mode for large Unicode values	1
Spacing issues when using <code>\linethickness</code> . .	1
Better support for uncommon font series defaults	1
Adjusting <code>fleqn</code>	1
Changes to packages in the graphics category	1
Generate a warning if existing color definition is changed	1
Changes to packages in the tools category	1
Support stretchable glue in <code>w-columns</code>	1
Changes to packages in the amsmath category	1
Placement corrections for two accent commands	1

Introduction

This document is under construction ...

Other changes to the L^AT_EX kernel

`\symbol` in math mode for large Unicode values

The L^AT_EX 2_ε kernel defines the command `\symbol`, which allows characters to be typeset by entering their ‘slot number’. With the LuaT_EX and XeT_EX engines, these slot numbers can extend to very large values to accomodate Unicode characters in the upper Unicode planes (e.g., bold mathematical capital A is slot number "1D400 in hex or 119808 in decimal). The XeT_EX engine did not allow `\symbol` in math mode for values above 2¹⁶, and this limitation has now been lifted.

(github issue 124)

Spacing issues when using `\linethickness`

In some circumstances the use of `\linethickness` introduced a spurious space that shifted objects in a `picture` environments to the right. This has been corrected.

(github issue 270)

Better support for uncommon font series defaults

If a font family was set up with fairly unusual font series defaults, e.g.,

```
\renewcommand\ttdefault{lmvtt}
\DeclareFontSeriesDefault[tt]{md}{lm}
\DeclareFontSeriesDefault[tt]{bf}{bm}
```

then a switch between the main document families, e.g., `\ttfamily... \rmfamily` did not always correctly continued typesetting in medium or bold series if that involved adjusting the values used by `\mdseries` or `\bfseries`. This has now been corrected.

(github issue 291)

Adjusting `fleqn`

In `amsmath` the `\mathindent` parameter used with the `fleqn` design is a rubber length paramter allowing for setting it to a value such as `1em minus 1em`, i.e., so the the normal indentation can be reduced in case of very wide math displays. This is now also supported by the L^AT_EX standard classes.

In addition a compressable space between formula and equation number in the `equation` environment got added when the `fleqn` option is used so that a very wide formula doesn’t bump into the equation number.

(github issue 252)

Changes to packages in the graphics category

Generate a warning if existing color definition is changed

If a color is defined twice using `\DefineNamedColor`, no info text `Redefining color ... in named color model ...` is written to the log file, because of a typo in the check. This has been corrected.

(gnats issue graphics/3635)

Changes to packages in the tools category

Support stretchable glue in `w-columns`

If stretchable glue, e.g., `\dotfill`, is used in `tabular` columns made with the `array` package, it stretches as it would in normal paragraph text. The one exception were `w-columns` (but not `W-columns`) were it got forced to its nominal width (which in case if `\hfill` or `\dotfill` is 0pt). This has been corrected and now `w-columns` behave like all other column types in this respect.

(github issue 270)

Changes to packages in the amsmath category

Placement corrections for two accent commands

The accent commands `\dddots` and `\ddddots` (producing triple and quatruple dot accents) moved the base character vertically in certain situations if it was a

single glyph, e.g., $\$Q \mathrel{\mathop{\cdot\cdot\cdot}\nolimits}\{Q\}$$ were not at the same baseline. This has been corrected. (*github issue 126*)