

The **syshex** package ^{*}

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Released 2020/04/27

Abstract

Lightweight L^AT_EX package, that makes available commands to make (hexa-)decimal timestamp, which can be useful to create unique filenames.

Résumé

Extension L^AT_EX offrant un horodateur (hexa-)decimal, qui peut trouver son utilité pour produire des noms de fichiers uniques.

Contents

Part I

Usage

<code>\usepackage</code>	<code>\usepackage{syshex}</code>
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Requirement

1. **syshex.sty** and its dependencies are in the path of the L^AT_EX engine. See [Part III, section 3](#).
2. Declare it in the *preamble*

<code>SyshexDate</code>	<code>\SyshexDate</code>
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Semantics Numeric date

<code>SyshexDateHex</code>	<code>\SyshexDateHex</code>
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Semantics Numeric date (hex)

^{*}This file describes version v1.1, last revised 2020/04/27.

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<u>SyshexFilename</u>	\SyshexFilename
	Semantics \c_sys_jobname_str--\SyshexDateHex--\SyshexTimeHex[1]

<u>SyshexTime</u>	\SyshexTime
	Semantics Numeric time

<u>SyshexTimeHex</u>	\SyshexTimeHex
	Semantics Numeric time (hex)

Part II

Listing

Listing 1. All at once

```
\noindent\SyshexDate\  
\SyshexDateHex\  
\SyshexTime\  
\SyshexTimeHex\  
\SyshexFilename
```

```
20200427  
1343beb  
1919  
77f  
syshex-1343beb-77f
```

Part III

Other

1 Acknowledgment

This work has benefited from Q&A's from the L^AT_EXcommunity[2]

2 Install

- 1) Compile `syshex.dtx` (under Unix, `$tex syshex.dtx`)
- 2) Put the generated `syshex.sty` in the search path of the L^AT_EXengine

3 Support

This package is available from <https://www.ctan.org/pkg/syshex> and <https://github.com/rogard/syshex>.

3.1 Platform

- i)* Linux laptop 4.15.0-20-generic #21-Ubuntu SMP Tue Apr 24
↪ 06:16:15 UTC 2018 x86_64 x86_64 x86_64 GNU/Linux

3.2 Engine

- a)* pdfTeX 3.14159265-2.6-1.40.20 (TeX Live 2019)
- b)* pdfTeX 3.14159265-2.6-1.40.21 (TeX Live 2020)
- c)* LuaHBTeX, Version 1.12.0 (TeX Live 2020)
- d)* XeTeX 3.14159265-2.6-0.999992 (TeX Live 2020)

3.3 Results

- 1) `syshex v1.0` satisfactory on platform *i)* and engines *b)*, *c)*, and *d)*

References

- [1] The L^AT_EX3 Project Team *The L^AT_EX3 interfaces*, 2019, <http://ftp.math.purdue.edu/mirrors/ctan.org/macros/latex/contrib/l3kernel/interface3.pdf>
- [2] <https://tex.stackexchange.com/users/112708/erwann?tab=questions>

Part IV

Implementation

1 Opening

```
1 <@@=syshex>  
2 \ExplSyntaxOn
```

2 date

```
3 \NewDocumentCommand\SyshexDate{}{\erw_sys_date:}  
4 \NewDocumentCommand\SyshexDateHex{}{\erw_sys_date_hex:}
```

3 file

```
5 \NewDocumentCommand\SyshexFilename{}{\erw_sys_filename:}
```

4 time

```
6 \NewDocumentCommand\SyshexTime{}{\erw_sys_time:}  
7 \NewDocumentCommand\SyshexTimeHex{}{\erw_sys_time_hex:}
```

5 Closing

```
8 \ExplSyntaxOff
```