The timestamp package *

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Abstract

 \LaTeX package that defines a (hexa-)decimal timestamp.

Résumé

Extension \LaTeX offrant un horodateur (hexa-)decimal.

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^{*}This file describes version v1.7, last revised 2020/05/02.

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Part I Usage		
\usepackage{timestamp}		
 Requirement timestamp.sty and its dependencies are in the path of the LATEX engine. See Part III, section 3. Goes in the preamble 		
\Timestamp*[date time datetime]<10 16>		
Semantics Timestamp in base 10 or 16, optionally prefixed by the 'jobn \TimestampDelimiter[char]	name'[1, l3sys]	

 $\uberrel{lambda} \uberrel{lambda} \$

 $\verb|\Timestamp|$

 $\verb|\Timestamp|$

Semantics Sets the delimiter used by \Timestamp

Part II Listing

```
Listing 2. Base 16

\noindent\Timestamp[date] < 16 > {\%}\Timestamp[time] < 16 > \\
\TimestampDelimiter[\%]
\Timestamp*

1343c36\%936
1343c36\%936
timestamp\%1343c36\%936
```

Part III

Other

1 Acknowledgment

This work has benefited from Q&A's from the IATeXcommunity[2]

2 Install

- 1) Compile timestamp.dtx (under Unix, \$tex timestamp.dtx)
- 2) Put the generated timestamp.sty in the search path of the LATEX engine

3 Support

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

3.1 Platform

i) Linux laptop 4.15.0-20-generic #21-Ubuntu SMP Tue Apr 24 $_{\hookrightarrow}$ 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) timestamp v1.2 compiles satisfactorily on platform i) and engines b), c), and d)

References

- [1] The LATEX3 Project Team *The LATEX3 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

Change History

v1.0	v1.4
General: Initial version 4	General: Add: \timestamp:nn 4
v1.1	Remove: \syshex_date:
General: Add: dependency to $erw-l3$ 4	Remove: \syshex_date_hex:
Remove: internals 4	Remove: \syshex_jobname_dec:
v1.2	Remove: \syshex_time_dec:
General: Add: \syshex_date: 4	Remove: \syshex_time_hex: 4
Add: \syshex_date_hex: 4	Rename: syhex to timestamp
Add: \syshex_jobname_dec: 4	v1.5
Add: \syshex_time_dec: 4	General: Add: @_datetime_join:nnn
Add: \syshex_time_hex: 4	(fixes a bug)
Remove: \SyshexDateHex 4	v1.6
Remove: \SyshexDate 4	General: Fix: minor bugs
Remove: \SyshexFilename 4	v1.7
Remove: \SyshexTimeHex 4	General: Add: \TimestampDelimiter . 4
Remove: \SyshexTime 4	Add: \Timestamp
Remove: dependency to erw-l3 4	Add: dependency to erw-l3
v1.3	Remove: all non doc-level
General: Misc: cleanup 4	commands

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The italic numbers denote the pages where the corresponding entry is described, numbers underlined point to the definition, all others indicate the places where it is used.

```
\mathbf{E}
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 \erw_option:n ..... 16, 17
                        \syshex_time_dec: ..... 5
                        \syshex_time_hex: ..... 5
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                      \TimestampDelimiter ..... 2, 5, 13
                                 \mathbf{U}
syshex commands:
```

Part IV

Implementation

1 Opening

```
\begin{array}{c} {}_{1} & \left< \texttt{@@=timestamp} \right> \\ {}_{2} & \left< \texttt{ExplSyntaxOn} \end{array}
```

2 Document level

```
NewDocumentCommand\Timestamp{sO{datetime}D<>{16}}

{
    \IfBooleanTF{#1}
     {
     \erw_sys_jobnametimestamp:nn{#2}{#3}
     }

     {
     \erw_sys_timestamp:nn{#2}{#3}
     }

     \erw_sys_timestamp:nn{#2}{#3}
     }

     \IfValueTF{#1}
     {
     \IfValueTF{#1}
     {\erw_option:n{ sys / timestamp_delim = #1 } }
     {\erw_option:n{ sys / timestamp_delim } }
}
```

3 Closing

19 \ExplSyntaxOff