

The Current Time with Package `scrtime` `scrdate`*

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This work provides a package `scrtime` defining some macros to handle compilation-time. It's a very simple implementation similar to `time`. I've tried to not use additional registers.

Up to version 3.49.2 it was part of the KOMA-Script collection. Since version 3.50 it is a standalone package mostly distributed for compatibility purpose.

Contents

1 User Manual	1
2 Implementation	2
2.1 Options	2
2.2 Commands and Macros	2
Index	3
Change History	3

1 User Manual

This package lets you find the current time.

Important Note: Since version 3.50, the package does no longer support the KOMA-Script option interface using `\KOMAOPTION` and `\KOMAOPTIONS`. See the alternatives below.

`\thistime` This command prints the current time in hours and minutes. Seconds are not supported, because `TEX` itself does not provide the seconds of the `LATEX` run. As a default delimiter a “.” is printed between hours and minutes. Minutes values less than 10 are prefixed with a leading 0. You can use an optional argument:

`\thistime[⟨delimiter⟩]`

to change the default delimiter. For example,

`\thistime[.]`

*The last `LATEX` run of this document was at October 19, 2026 10:58.

would show the time of the current L^AT_EX run as, e.g., 9.01 instead of the default 9:01.

To prevent a leading 0 from being added to minutes values less than 10, the asterisk form is available. So

```
\thistime*
```

would show the time of the previous example as 9:1. The asterisk form still provides the optional argument and

```
\thistime*{.}
```

would show the time from above as 9.1.

`\settime` `\settime{<time>}` sets the output of `\thistime` and `\thistime*` to a fixed value. In this case, the optional parameter of `\thistime` or `\thistime*` and the asterisk of `\thistime*` is ignored, since the complete string returned by these commands has been explicitly defined.¹

12h (opt.) With the options 12h and 24h, you can select whether to print the time given by `\thistime` and `\thistime*` in 12- or 24-hour format. The options accepts the values `true` and `false`. Option 24h is the same as 12h=false. Option 24h=false is the same as 12h. The default is 24h.

24h (opt.)

`\scrtimesetup`

You can set these options globally in the optional argument of `\documentclass`, as a package option in the optional argument of `\usepackage`, or even after loading the package using `\scrtimesetup`. As a special, you can even use `\usepackage` with different options several times in your document preamble. The last wins.

However the option no longer has any effect if you use `\settime`. After invoking this command, the time is output only with the value and in the format specified there.

2 Implementation

2.1 Options

```
1 <*package>
```

12h (opt.) There are the two options 24h and 12h. We need a switch to distinguish.

24h (opt.) 2 `\newif\if@Hxii`

`\if@Hxii` (intern) So the options are simple.

```
\@Hxiitrue (intern) 3 \DeclareKeys{%
@Hxiifalse (intern) 4   12h.if      = @Hxii,
                    5   12h.usage   = general,
                    6   24h.ifnot   = @Hxii,
                    7   24h.usage   = general,
                    8 }
                    9 \ProcessKeyOptions
```

`\scrtimesetup` Just a shortcut so users do not need to know the *<family>*.

```
10 \newcommand*{\scrtimesetup}{\SetKeys[scrtime]}
```

¹Internally, command `\thisime` is redefined to ignore the asterisk and the optional argument and just return the argument of `\settime`.

2.2 Commands and Macros

`\thistime` First we have to decide, is it a star-version ore not.

```
11 \NewDocumentCommand{\thistime}{s0:}{%
12   \begingroup
13     \@tempcnta\time\divide\@tempcnta60\multiply\@tempcnta60
14     \@tempcntb\time\advance\@tempcntb-\@tempcnta
15     \divide\@tempcnta60
```

If we use 12h-mode, we have to cut the heures.

```
16   \if@Hxii\ifnum\@tempcnta>12 \advance\@tempcnta-12 \fi\fi
```

Now we have to compose the value. If the minutes are less than 10 maybe there has to be an additional 0.

```
17   \the\@tempcnta #2\IfBooleanF{#1}{\ifnum\@tempcntb<10 0\fi}\the\@tempcntb
18   \endgroup}
```

`\settime` We simply have to set `\@thistime`.

```
19 \newcommand*{\settime}[1]{\RenewDocumentCommand{\thistime}{so}{#1}}
20 \endpackage
```

Index

Numbers written in italic refer to the page where the corresponding entry is described; numbers underlined refer to the code line of the definition; numbers in roman refer to the code lines where the entry is used.

Symbols	<code>\thistime</code> 1 , 11	<code>\settime</code> 2 , 19
12h (<i>opt.</i>) 2 , 2	O	T
24h (<i>opt.</i>) 2 , 2	Options:	TeX macros (internal):
C	12h 2 , 2	<code>\@Hxiifalse</code> 2
Commands:	24h 2 , 2	<code>\@Hxiitru</code> 2
<code>\scrtime</code> 2 , 10	S	<code>\if@Hxii</code> 2
<code>\settime</code> 2 , 19	<code>\scrtime</code> 2 , 10	<code>\thistime</code> 1 , 11

Change History

v1.1b – 1995/02/15	macrocode-environment inserted . . . 3
<code>\@Hxiifalse</code> : new switch 2	v1.1d – 1996/01/14
12h: option 12h added 2	<code>\thistime</code> : space added at <code>\@thistime</code>
24h: option 24h added 2	between -12 and <code>\fi</code> (Martin
<code>\settime</code> : redefines <code>\@thistime</code> 3	Schroeder) 3
<code>\thistime</code> : <code>\thistime*</code> added 2	v1.2 – 2010/03/10
<code>\thistime</code> fixed 2	12h: option uses <code>scrkbase</code> 2
v1.1c – 1995/05/24	24h: option is deprecated 2
<code>\settime</code> : missing	

v3.20 – 2016/04/12	v3.40 – 2023/04/17
\thistime: \@ifstar replaced by	General: guide names changed 1
\kernel@ifstar 2	v3.50 – 2026-05-18
v3.36 – 2022/02/07	General: split-off to make a standalone
General: require package scrlogo instead	package 1
of defining \KOMAScript 1	12h: \KOMAoption and \KOMAoptions
switch over from scrdoc to	not supported any longer 2
koma-script-source-doc 1	option uses \DeclareKeys 2
v3.39 – 2022/11/16	24h: option uses \DeclareKeys 2
24h: declare deprecated option only	\scrtimesetup: new 2
with KOMA-Script 3 2	\settime: redefines \thistime 3
	\thistime: using \NewDocumentCommand 2