The \texttt{l3benchmark} package
Experimental benchmarking

The \LaTeX\ Project*
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1 Additions to \texttt{l3sys}: elapsed time

\begin{verbatim}
\sys_gzero_timer: \sys_gzero_timer:
 Resets the timer to zero.
\sys_timer: \sys_timer:
 Expands to the current value of the engine’s timer clock, a non-negative integer. In engines without clock support this expands to 0 after an error. In \luatex only the CPU time is measured, while in other engines real time is measured (including time waiting for user input).
\end{verbatim}

2 Benchmark

\begin{verbatim}
\g_benchmark_duration_target_fp
\benchmark_once:n \{⟨code⟩\}
Prints to the terminal the time taken by \TeX\ to run the \langle code⟩, and an estimated number of elementary operations. The \langle code⟩ is run only once so the time may be quite inaccurate for fast code.
\benchmark:n \{⟨code⟩\}
Prints to the terminal the time taken by \TeX\ to run the \langle code⟩, and an estimated number of elementary operations. The \langle code⟩ may be run many times and not within a group, thus code with side-effects may cause problems.
\end{verbatim}

*E-mail: latex-team@latex-project.org
\benchmark_tic: \benchmark_toc:

When it is not possible to run \benchmark:n (e.g., the code is part of the execution of a package which cannot be looped) the tic/toc commands can be used instead to time between two points in the code. When executed, \benchmark_tic: will print a line to the terminal, and \benchmark_toc: will print a matching line with a time to indicate the duration between them in seconds. These commands can be nested.

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