The **I3benchmark** package Experimental benchmarking

The IAT_EX Project*

Released 2022-04-20

1 Benchmark

\g_benchmark_duration_target_fp

This variable (default value: 1) controls roughly for how long \benchmark:n will repeat code to more accurately benchmark it. The actual duration of one call to \benchmark:n typically lasts between half and twice \g_benchmark_duration_target_fp seconds, unless of course running the code only once already lasts longer than this. These variables store the results of the most recently run benchmark. \g_benchmark_-\g_benchmark_time_fp \g_benchmark_ops_fp time_fp stores the time TFX took in seconds, and \g_benchmark_ops_fp stores the estimated number of elementary operations. The latter is not set by \benchmark_tic:/\benchmark_toc:. \benchmark_once_silent:n {(code)} \benchmark_once:n \benchmark_once_silent:n $\benchmark_once:n { (code) }$ Determines the time g_{exc} (in seconds) taken by T_EX to run the $\langle code \rangle$, and an estimated number \g_benchmark_ops_fp of elementary operations. In addition, **\benchmark_once:n** prints these values to the terminal. The $\langle code \rangle$ is run only once so the time may be quite inaccurate for fast code. \benchmark:n $\benchmark:n {\langle code \rangle}$ \benchmark_silent:n Determines the time $g_{p,e}$ benchmark_time_fp (in seconds) taken by T_EX to run the $\langle code \rangle$, and an estimated number \g_benchmark_ops_fp of elementary operations. In addition, **\benchmark:n** prints these values to the terminal. The $\langle code \rangle$ may be run many times and not within a group, thus code with side-effects may cause problems. \benchmark_tic: \benchmark_tic: (slow code) \benchmark_toc: \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.

^{*}E-mail: latex-team@latex-project.org

Index

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.

В	\g_benchmark_ops_fp 1
benchmark commands:	\benchmark_silent:n 1
\benchmark:n 1 \g_benchmark_duration_target_fp 1	\benchmark_tic: 1
\benchmark_once:n 1	\g_benchmark_time_fp 1
\benchmark_once_silent:n 1	\benchmark_toc: 1