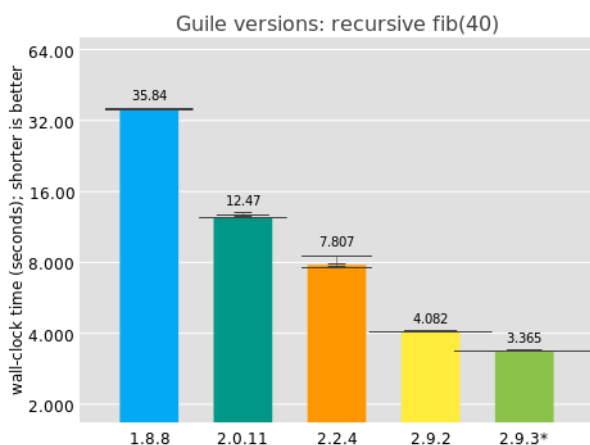


Andy Wingo: fibs, lies, and benchmarks

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I collected these numbers on my i7-7500U CPU @ 2.70GHz 2-core laptop, with no particular performance tuning, running each benchmark 10 times, waiting 2 seconds between measurements. The bar value indicates the median elapsed time, and above each bar is an overlaid histogram of all results for that scenario. Note that the y axis is on a log scale. The 2.9.3* version corresponds to unreleased Guile from git.

Good news: Guile has been getting significantly faster over time! Over decades, true, but I'm pleased.

where are we? static edition

How good are Guile's numbers on an absolute level? It's hard to say because there's no absolute performance oracle out there. However there are relative performance oracles, so we can try out perhaps some other language implementations.

First up would be the industrial C compilers, GCC and LLVM. We can throw in a few more "static" language implementations as well: compilers that completely translate to machine code ahead-of-time, with no type feedback, and a minimal run-time.

[2]

Links:

[1] <http://www.tuxmachines.org/taxonomy/term/148>

[2] <http://wingolog.org/archives/2019/06/26/fibs-lies-and-benchmarks>