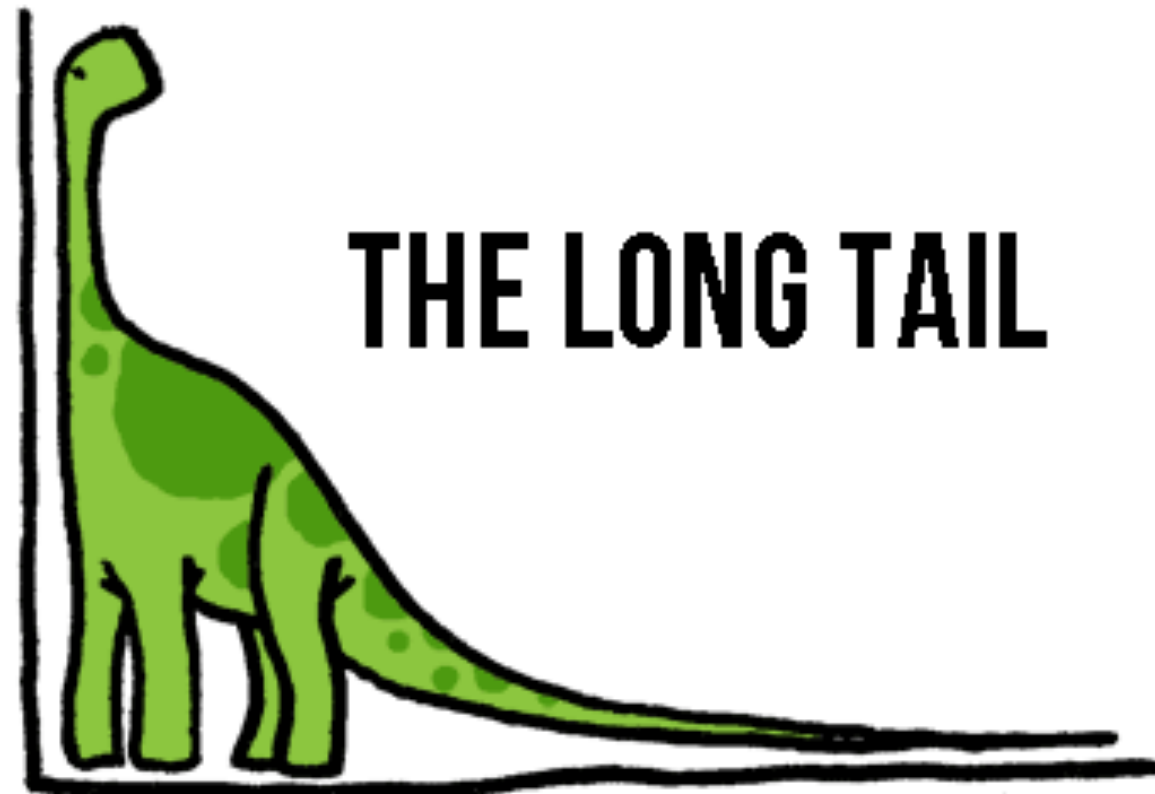


Treadmill: Attributing the Source of Tail Latency through Precise Load Testing and Statistical Inference

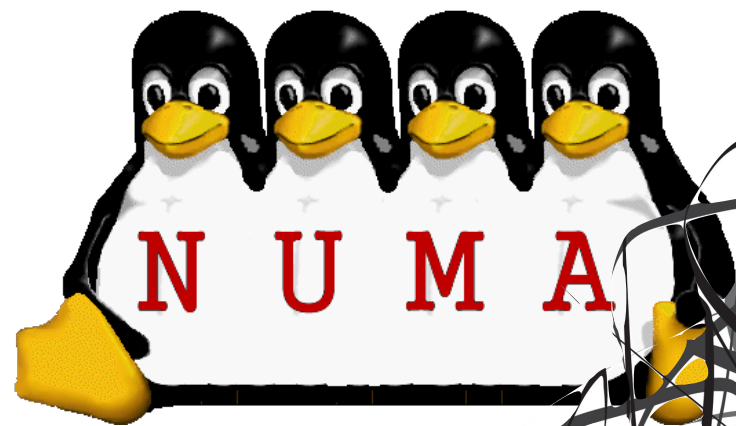
Yunqi Zhang, David Meisner, Jason Mars, Lingjia Tang

The Facebook logo, consisting of the word 'facebook' in white lowercase letters on a dark blue rectangular background.

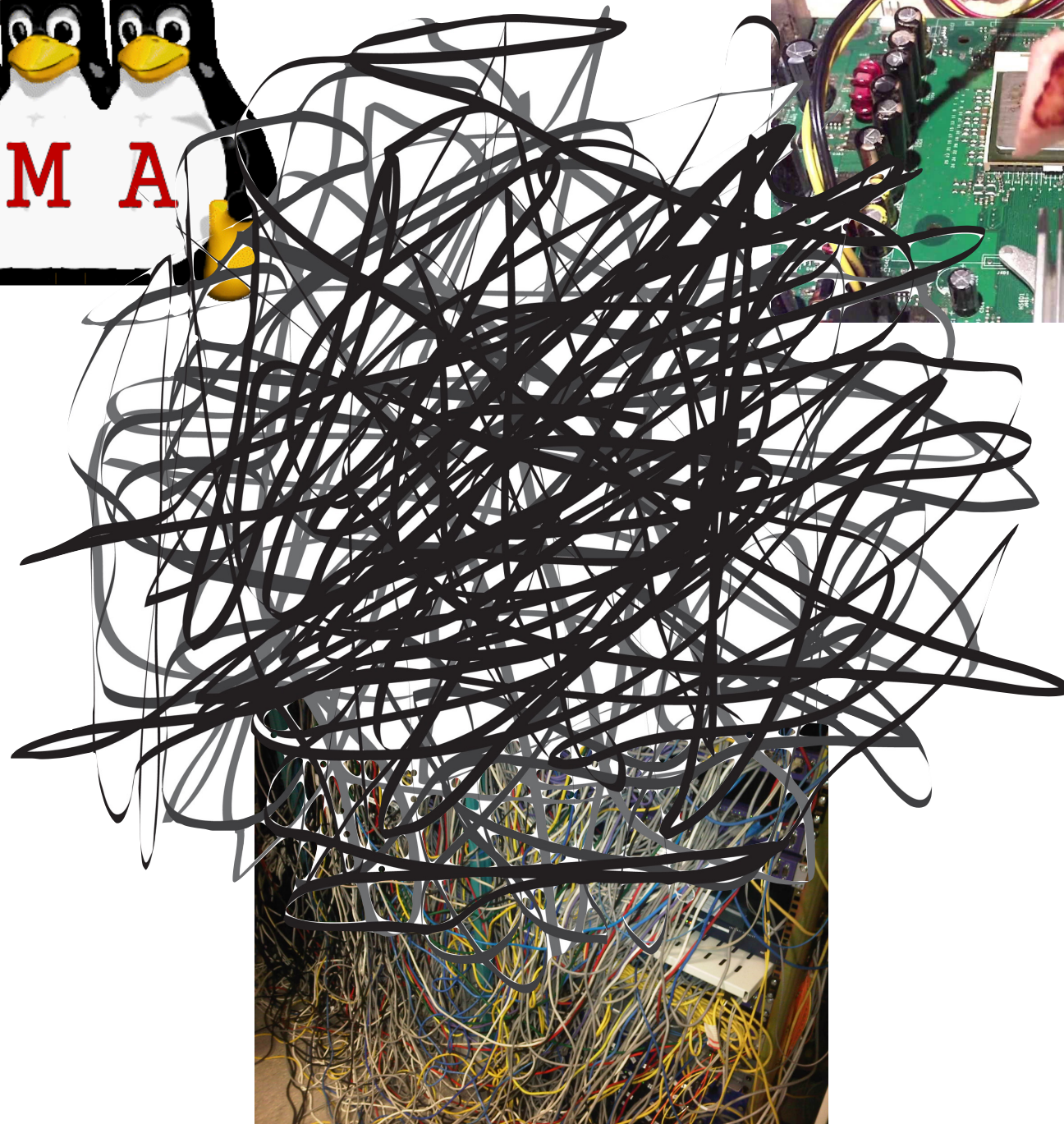
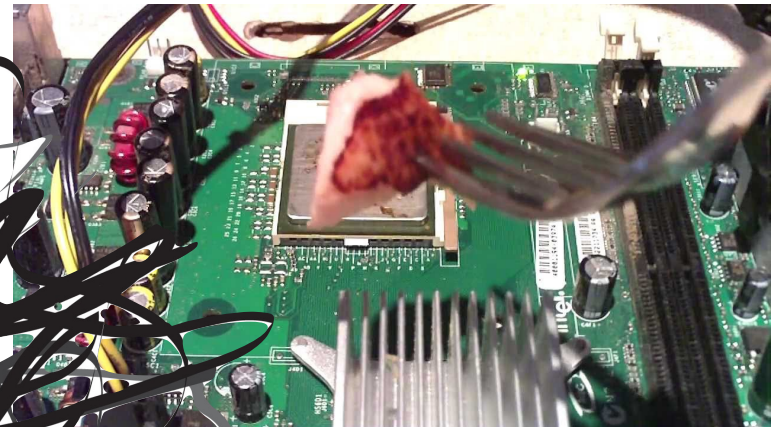


Orders of magnitude higher

User experience



DVFS



Network

<https://github.com/facebook/treadmill>

Quantile regression

Microsecond-level precision

**43% improvement
in 99th-percentile latency**

**Session 7B: Datacenter
2:30 P.M. on Tuesday**