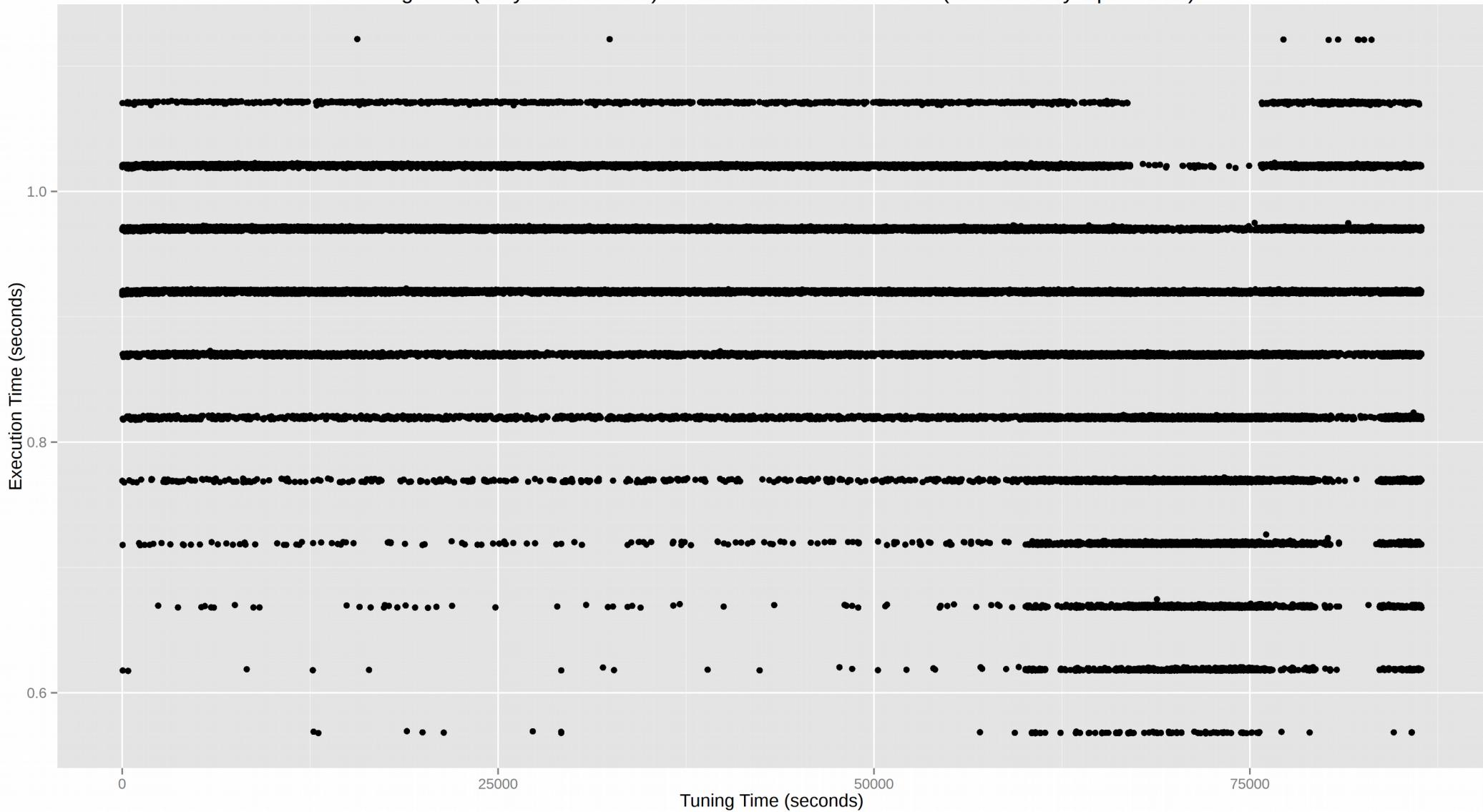


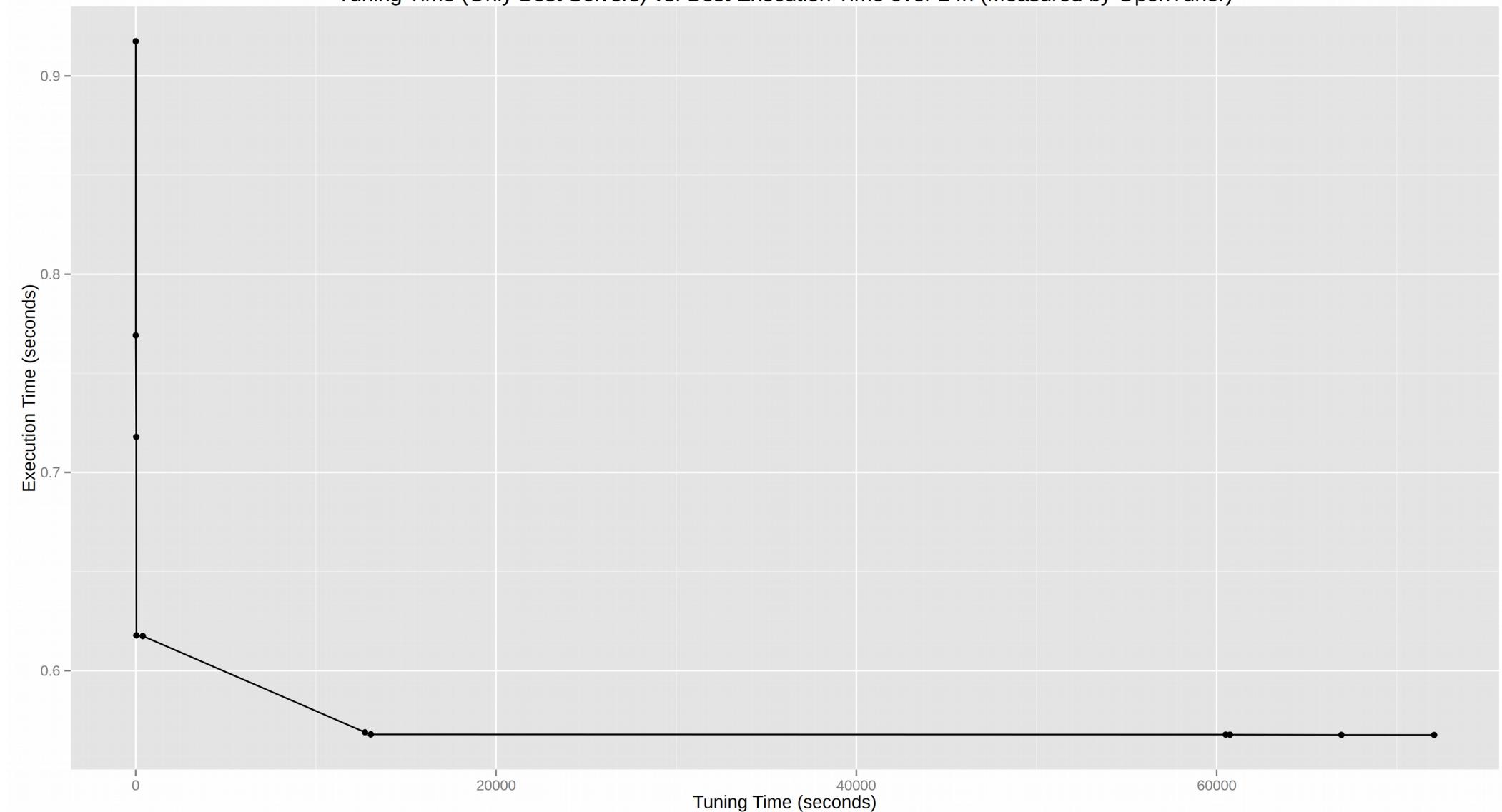
Experimentos

- Um solver para cada instância, gerando uma combinação, resolvendo sequencialmente todas as instâncias:
 - 1) 24h de tuning, apenas os 4 melhores solvers
 - 2) 12h de tuning, todos os 6 solvers
 - 3) 12h de tuning, apenas os 4 melhores, à partir da configuração 1)
 - 4) 12h de tuning, apenas os 4 melhores, à partir da “melhor” configuração

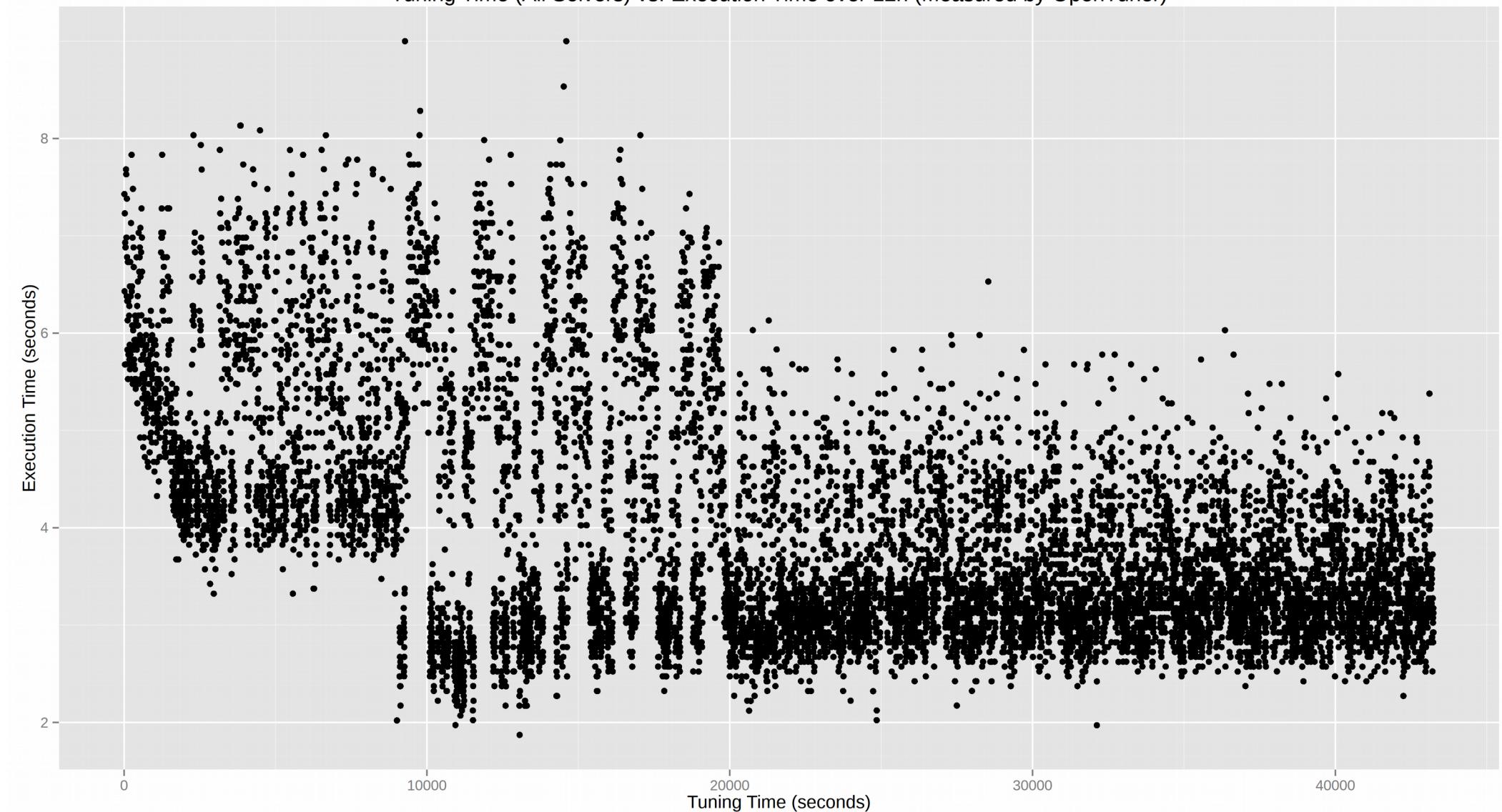
Tuning Time (Only Best Solvers) vs. Execution Time over 24h (Measured by OpenTuner)



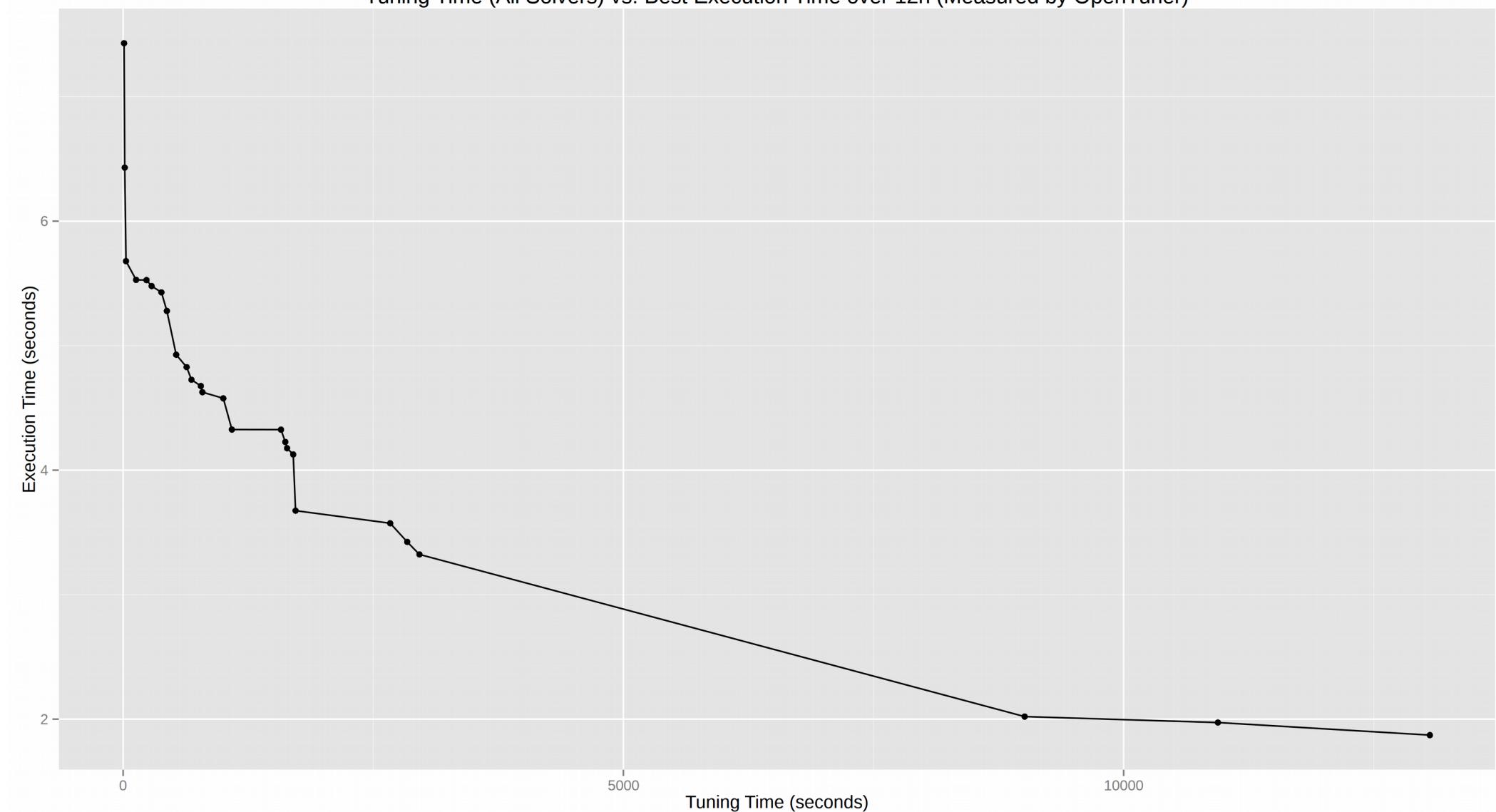
Tuning Time (Only Best Solvers) vs. Best Execution Time over 24h (Measured by OpenTuner)



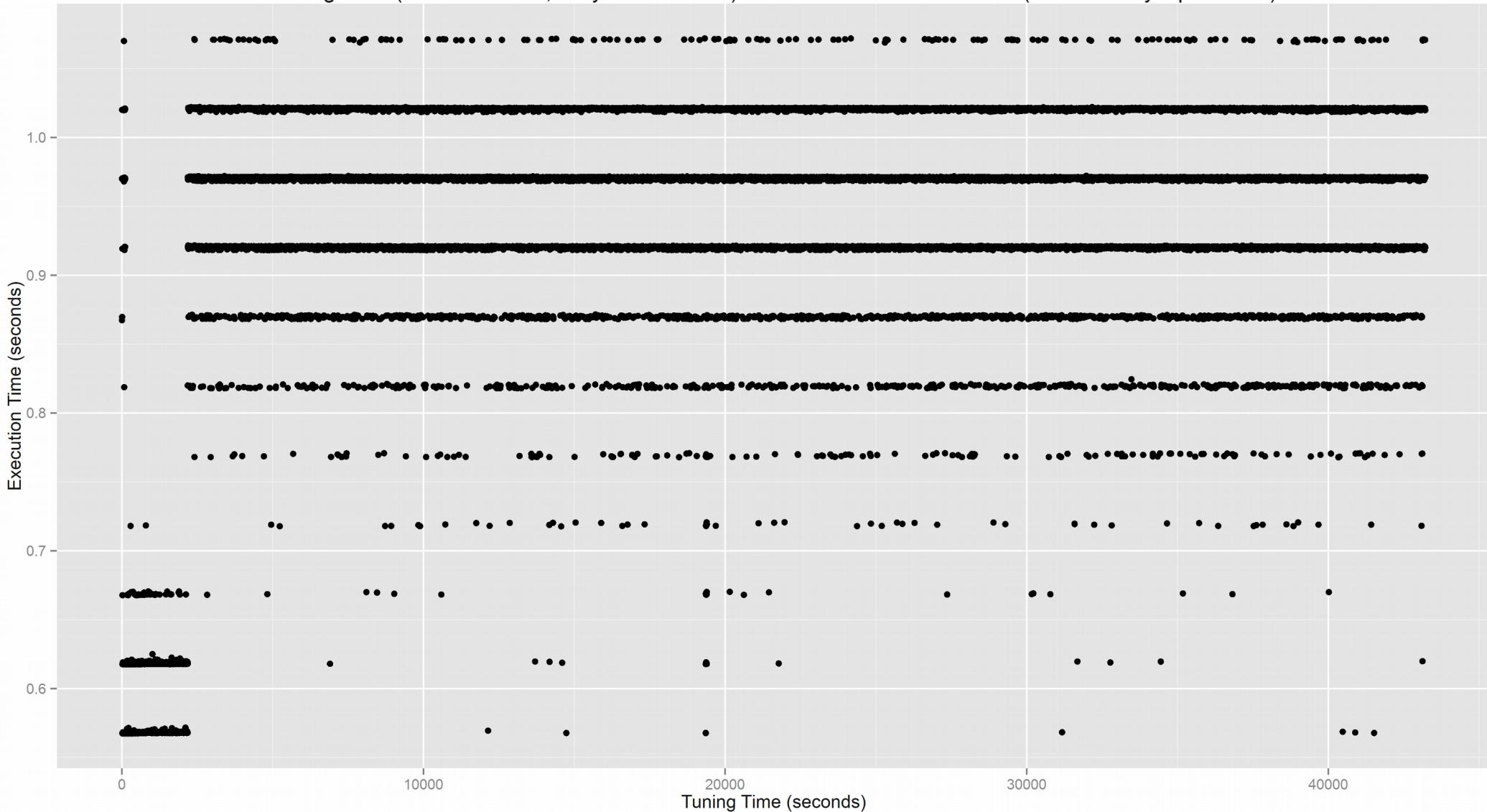
Tuning Time (All Solvers) vs. Execution Time over 12h (Measured by OpenTuner)



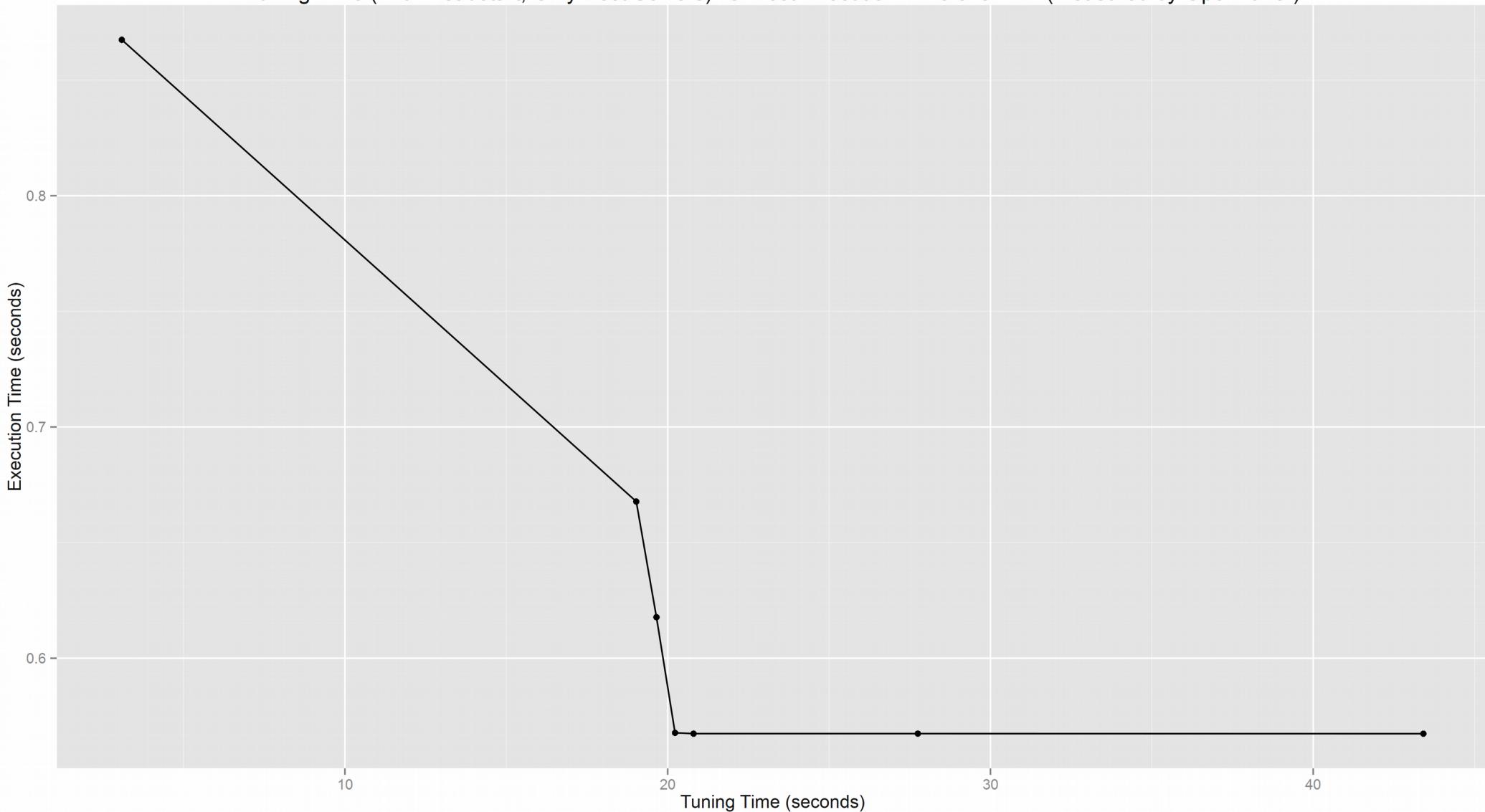
Tuning Time (All Solvers) vs. Best Execution Time over 12h (Measured by OpenTuner)



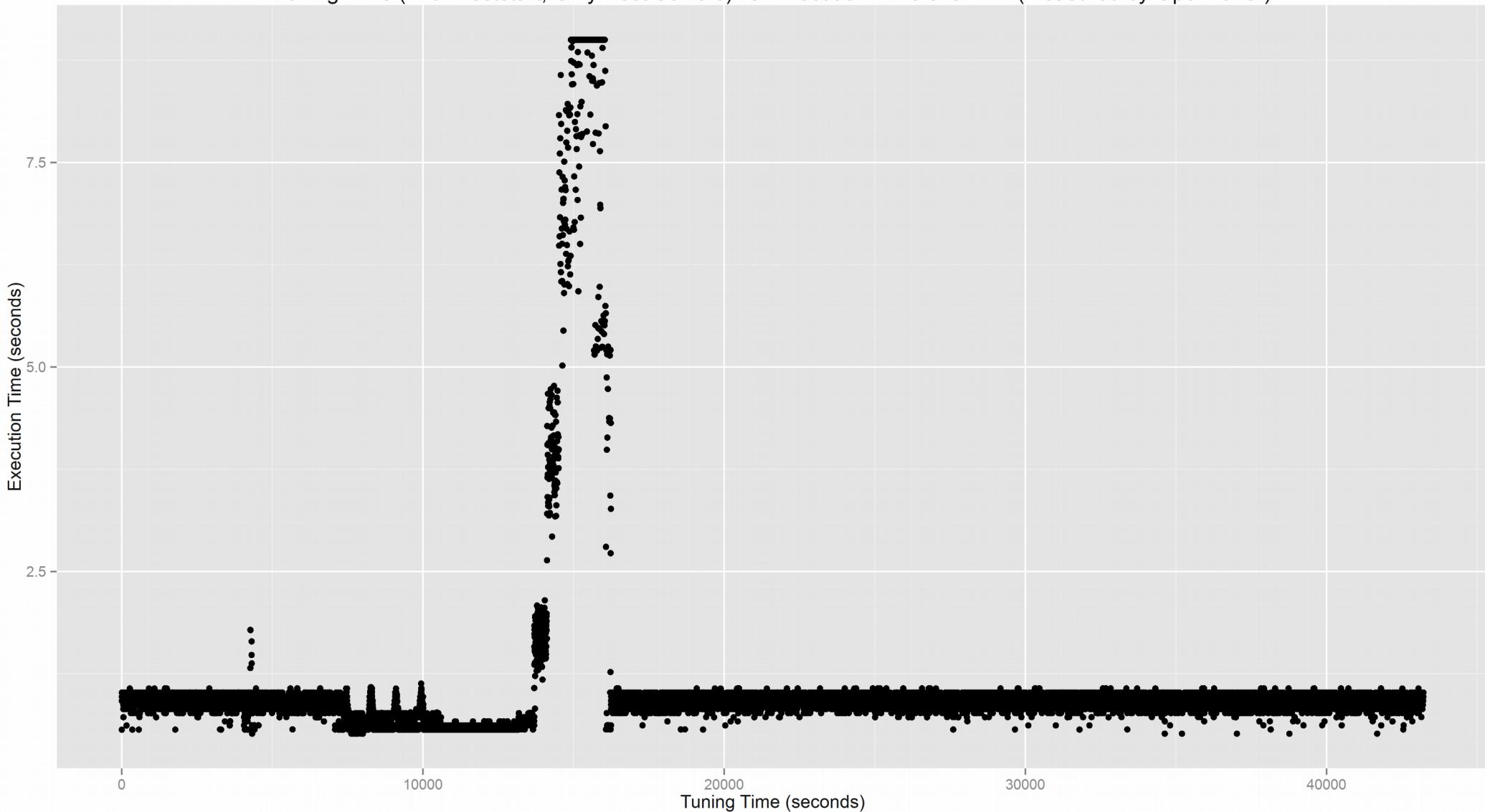
Tuning Time (With Headstart, Only Best Solvers) vs. Execution Time over 12h (Measured by OpenTuner)



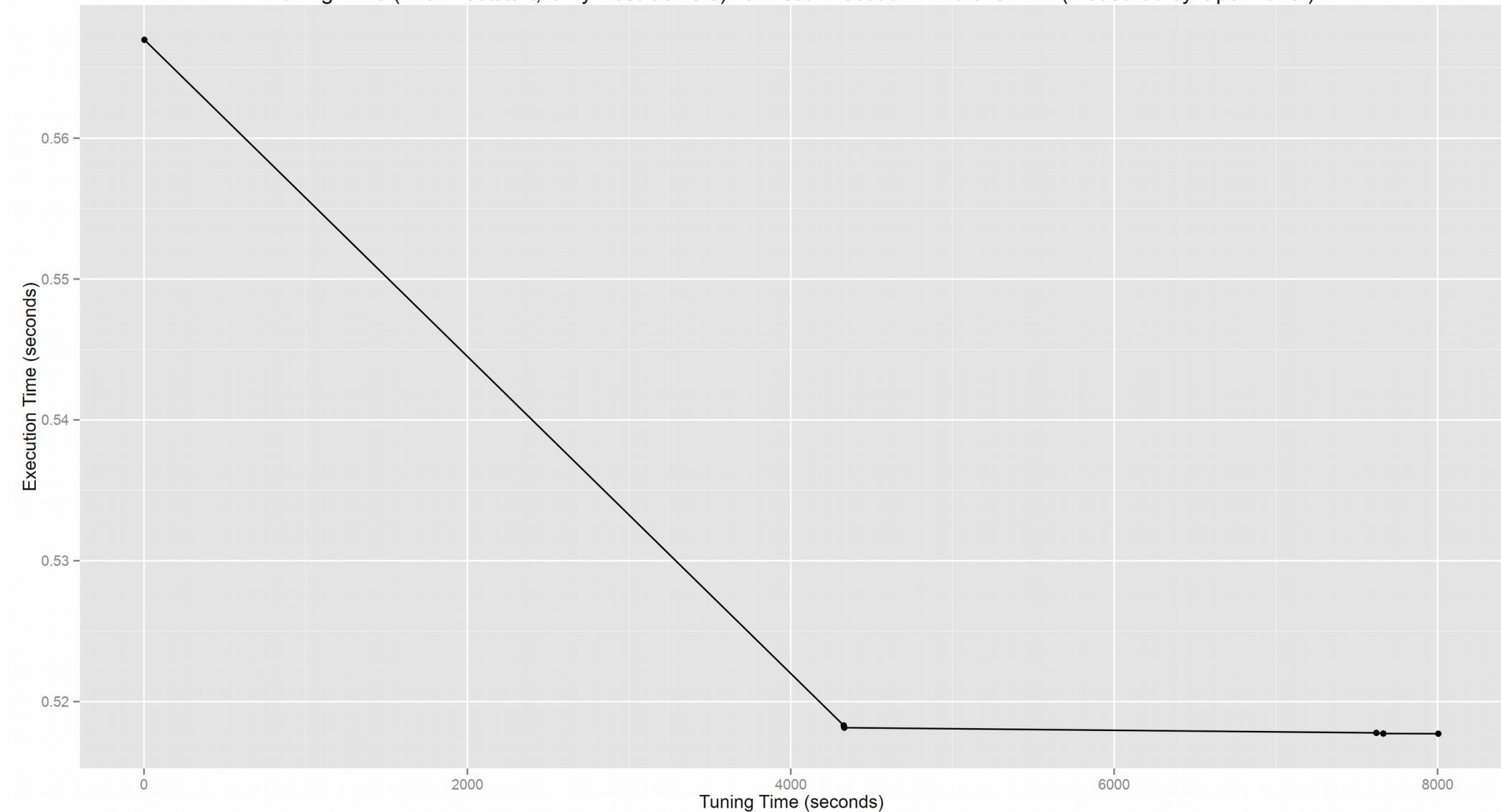
Tuning Time (With Headstart, Only Best Solvers) vs. Best Execution Time over 12h (Measured by OpenTuner)



Tuning Time (With Beststart, Only Best Solvers) vs. Execution Time over 12h (Measured by OpenTuner)



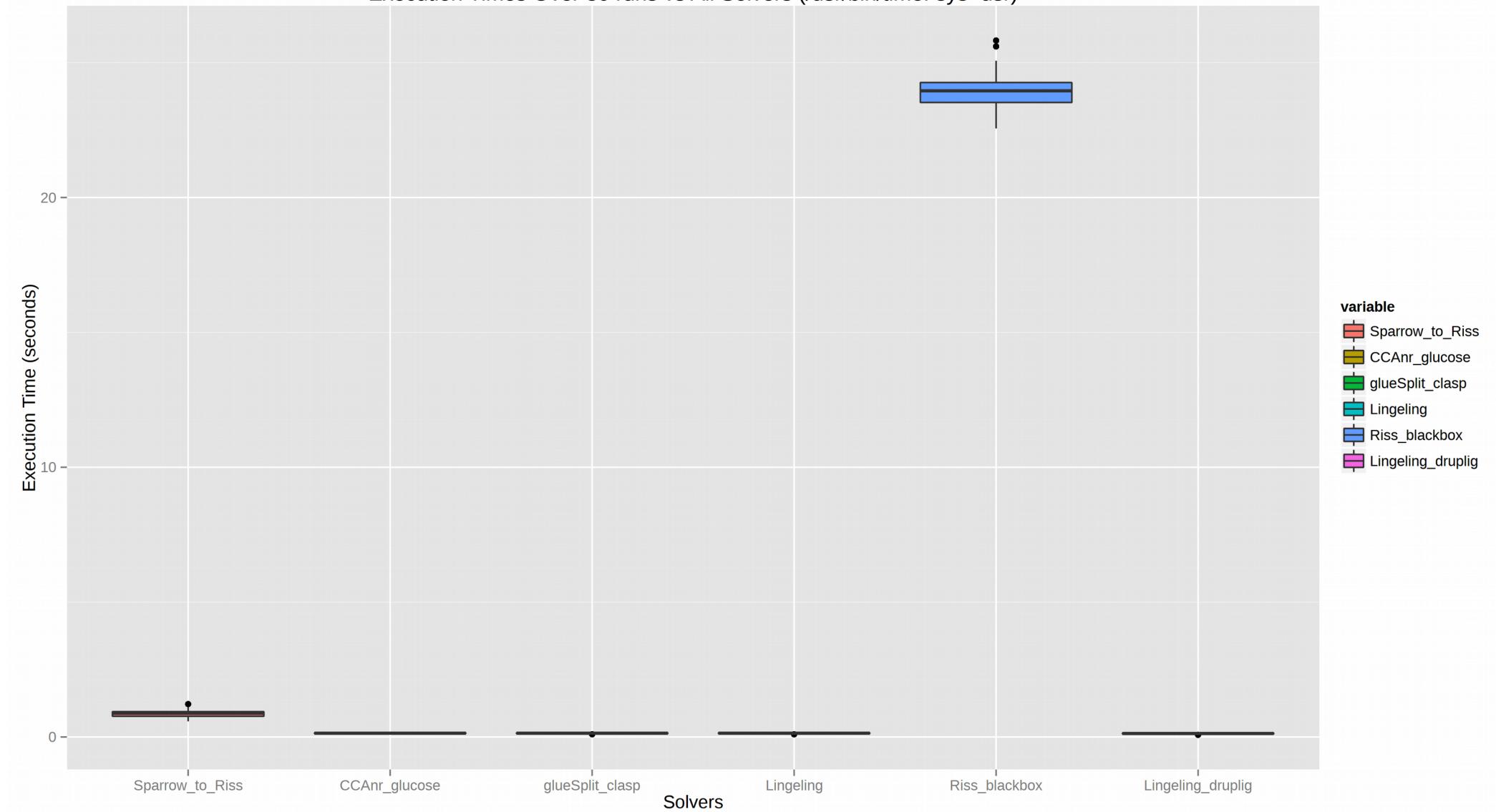
Tuning Time (With Beststart, Only Best Solvers) vs. Best Execution Time over 12h (Measured by OpenTuner)



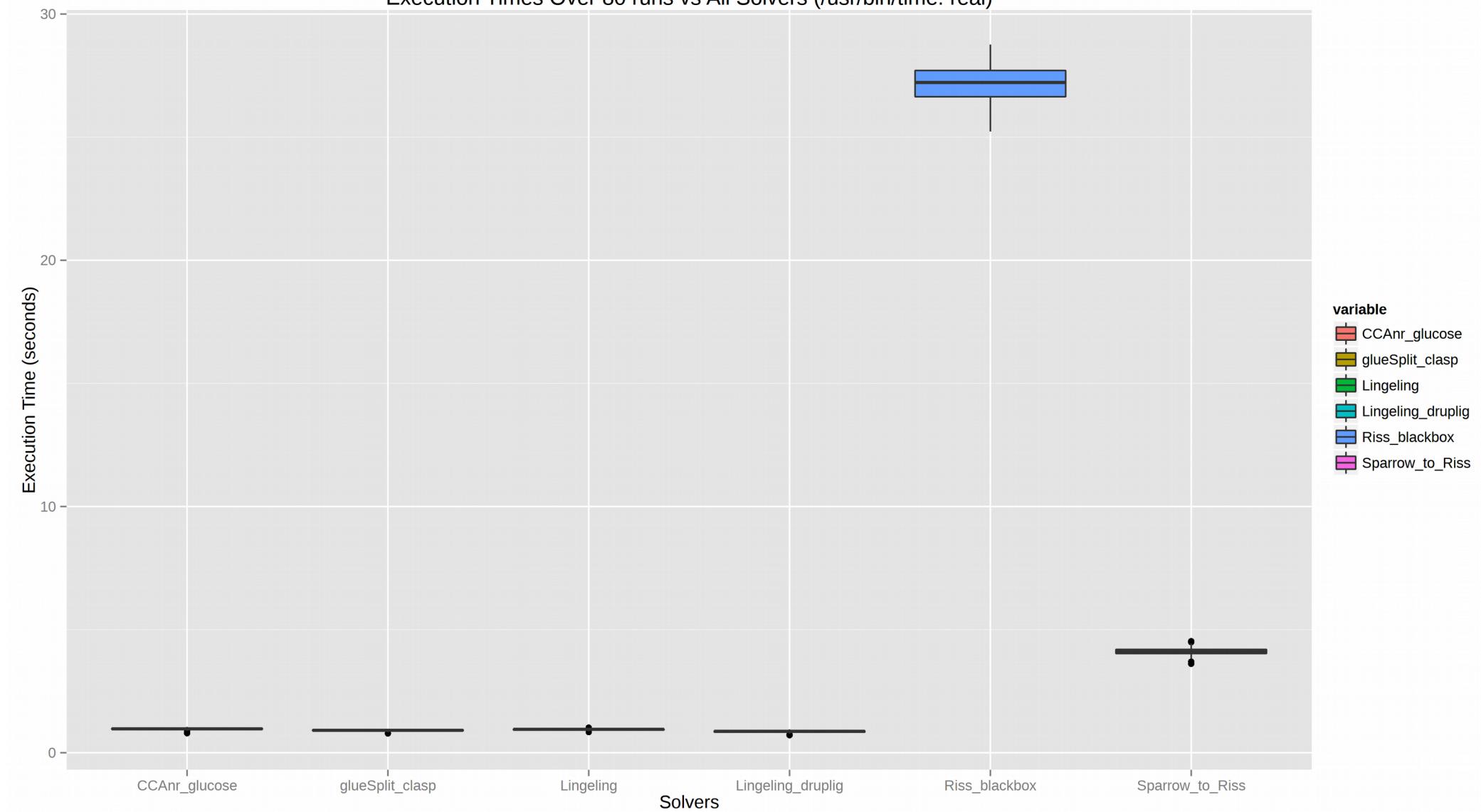
Benchmarks

- 6 solvers, 320 instâncias de SAT, 80 execuções;
 - /usr/bin/time “real” vs “usr+sys”;
 - 2 solvers muito piores.

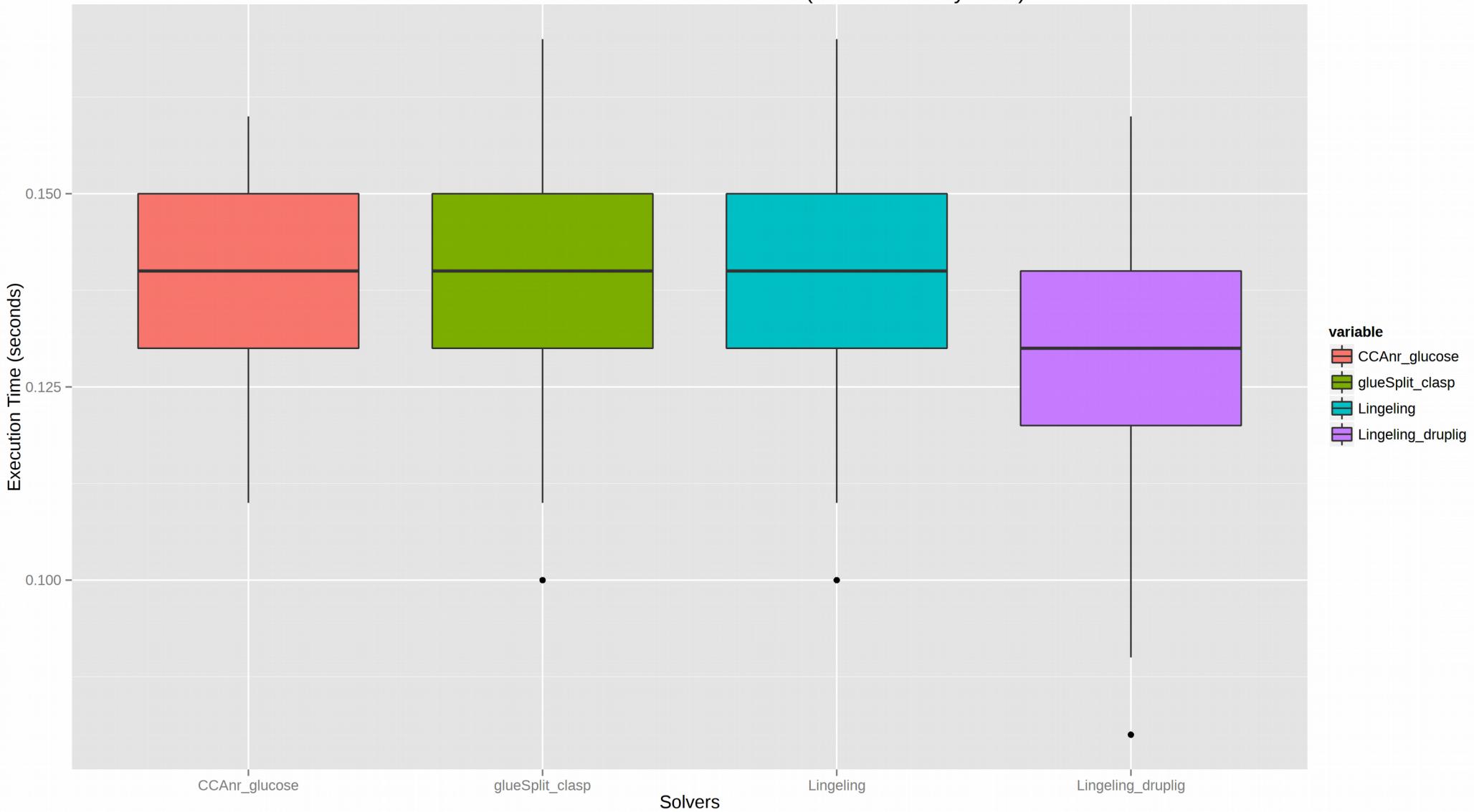
Execution Times Over 80 runs vs All Solvers (/usr/bin/time: sys+usr)



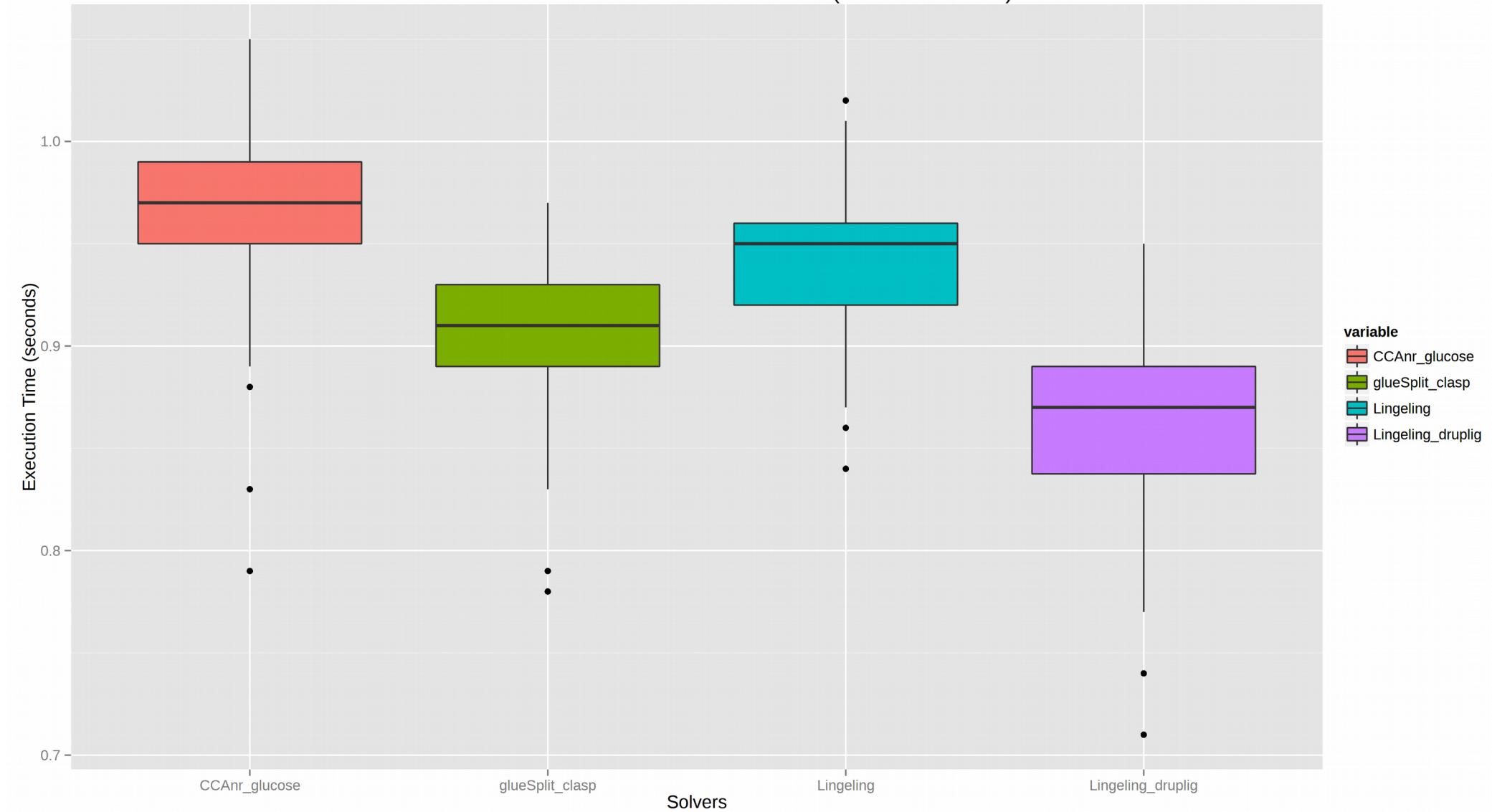
Execution Times Over 80 runs vs All Solvers (/usr/bin/time: real)



Execution Times Over 80 runs vs Best Solvers (/usr/bin/time: sys+usr)



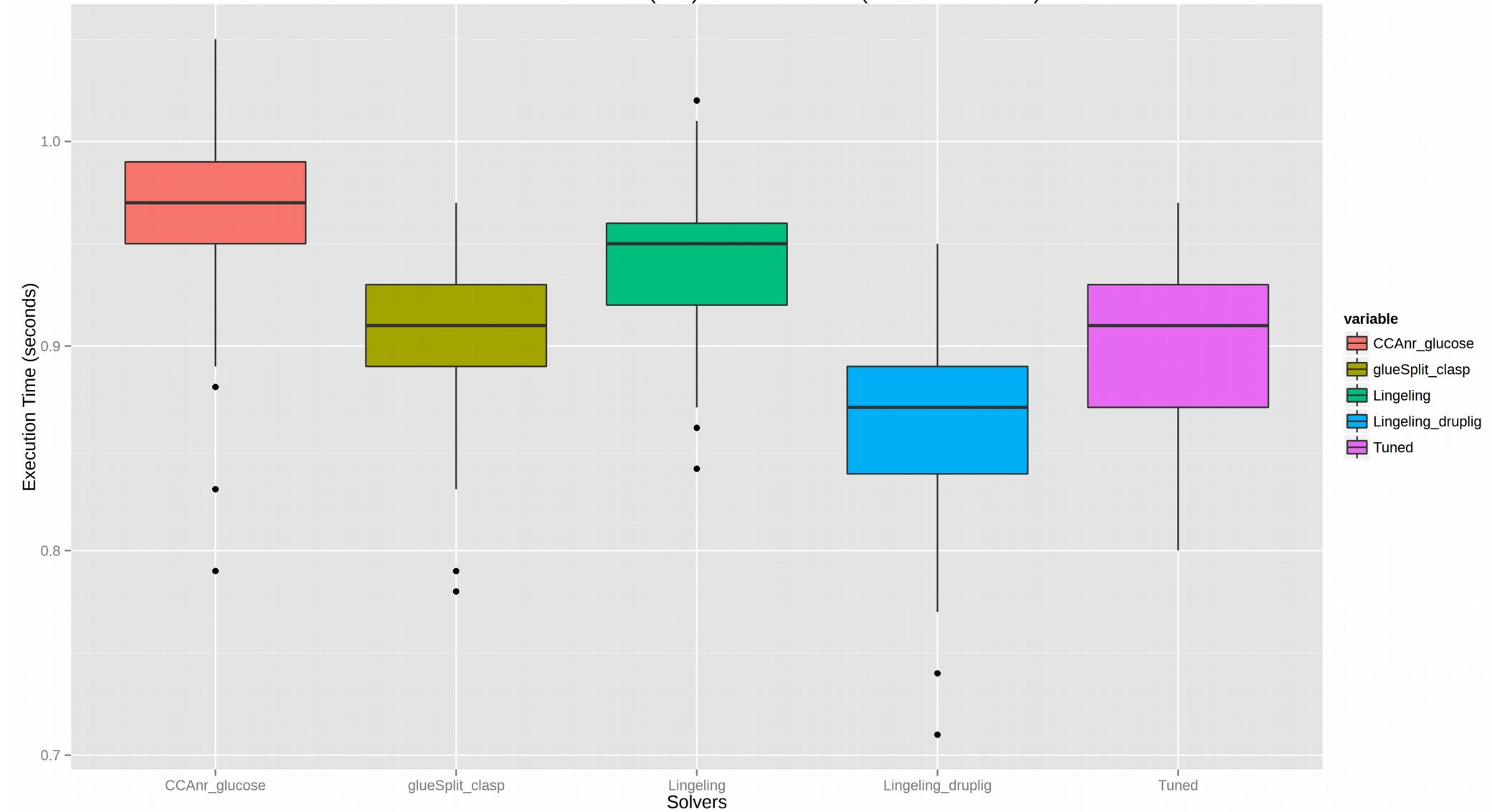
Execution Times Over 80 runs vs Best Solvers (/usr/bin/time: real)



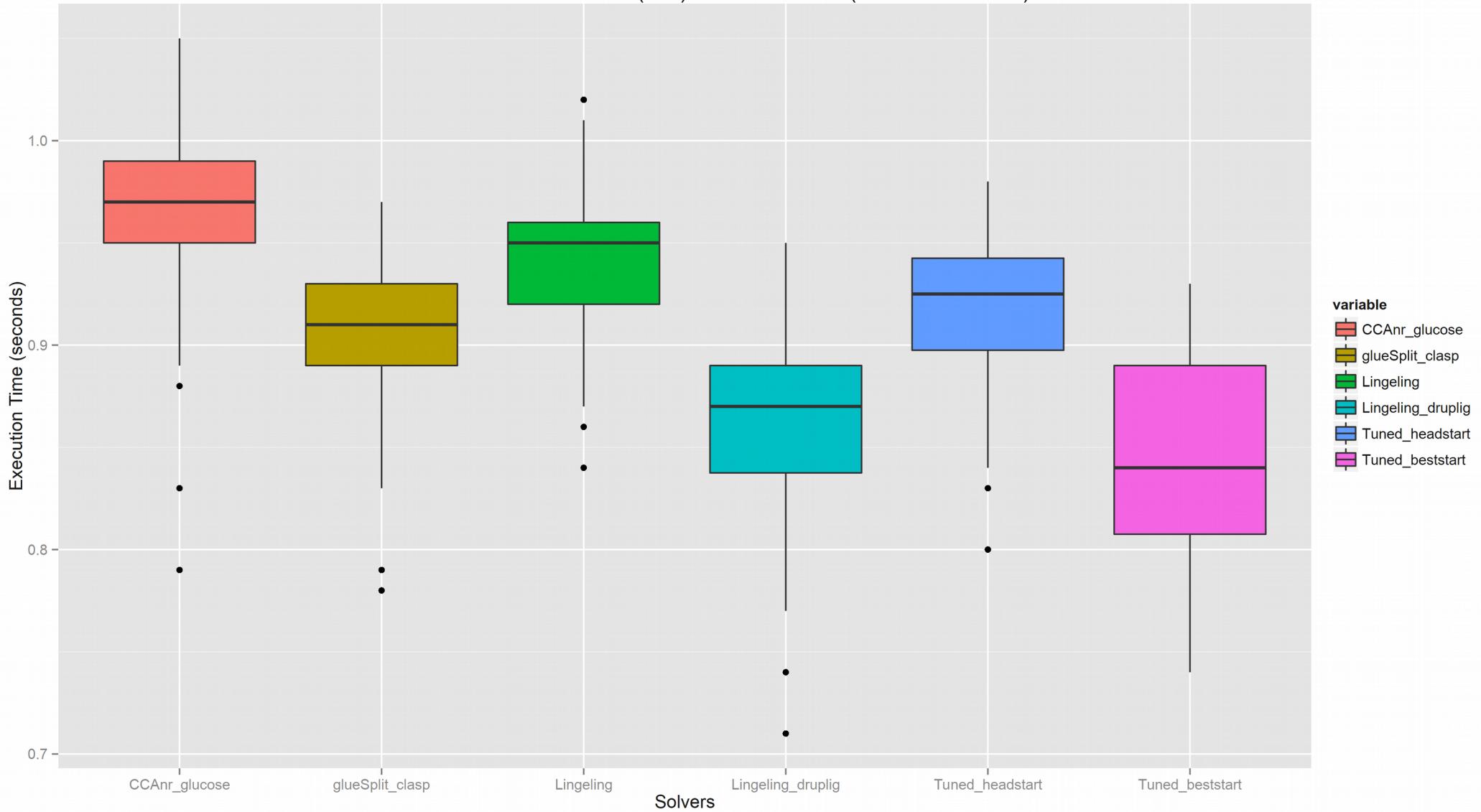
Tuned vs. Benchmark

- Comparações entre soluções encontradas e os solvers individuais

Execution Times Over 80 runs (24h) vs Best Solvers (/usr/bin/time: real)



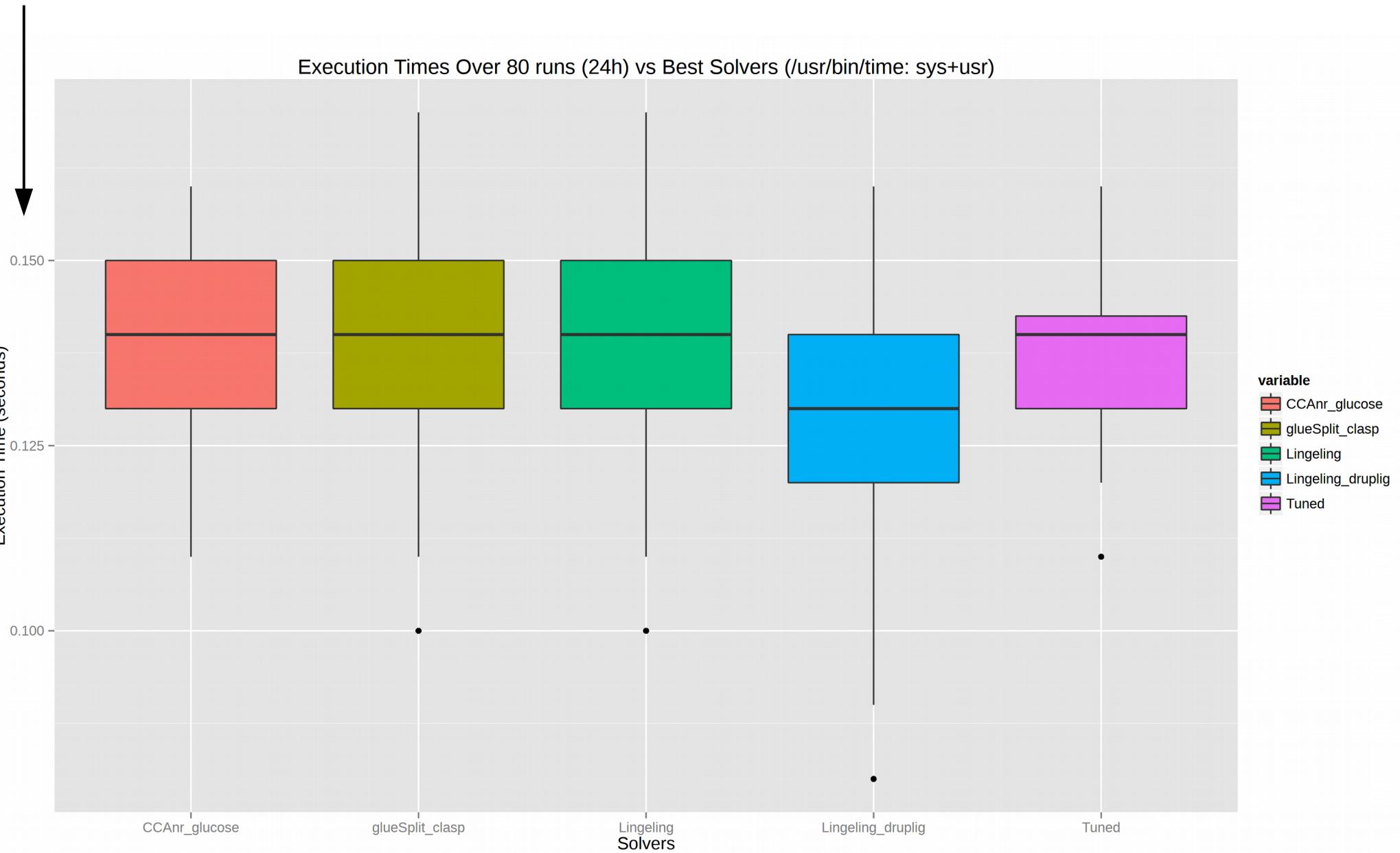
Execution Times Over 80 runs (12h) vs Best Solvers (/usr/bin/time: real)



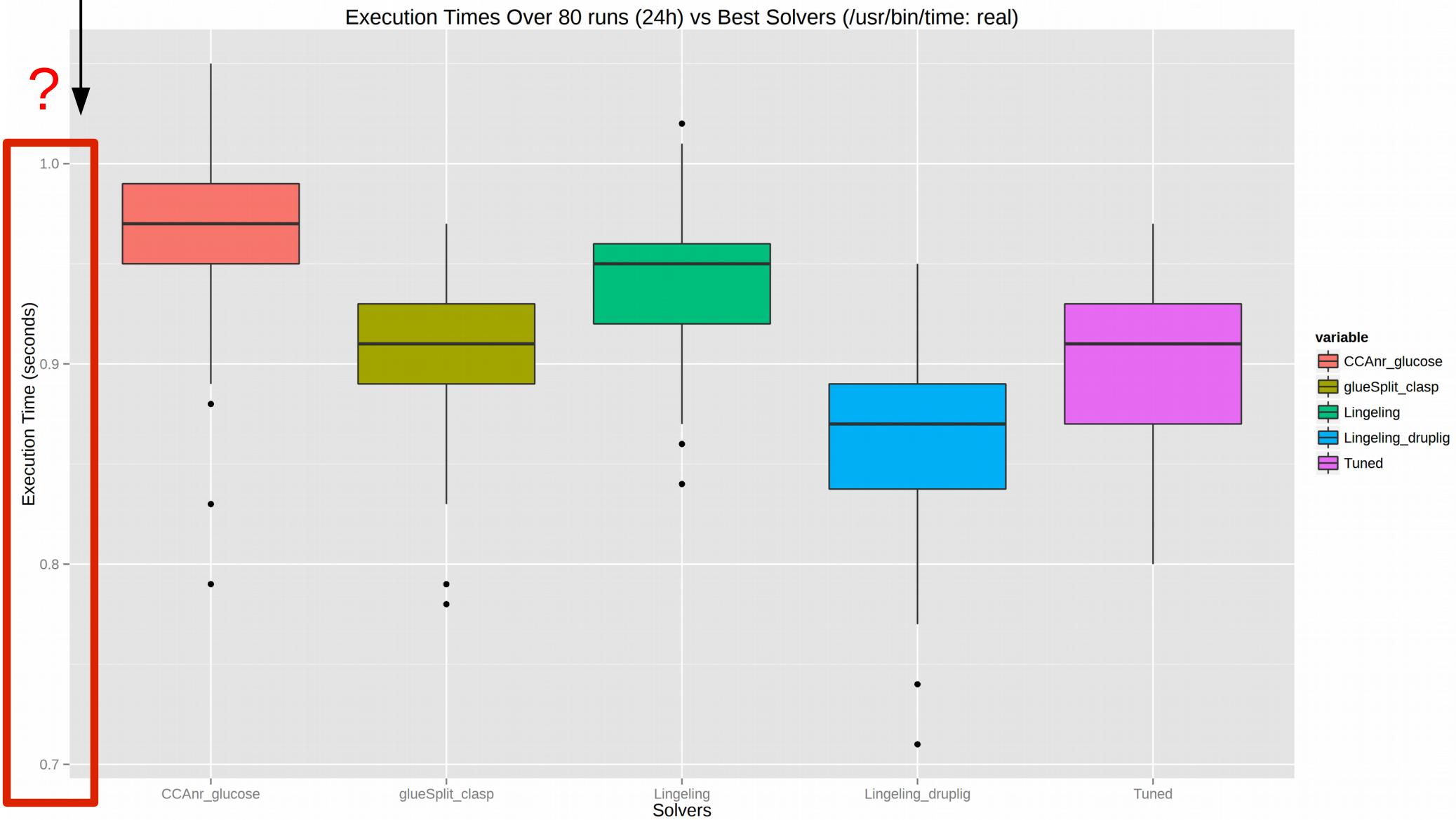
Medindo o Tempo de Execução

- /usr/bin/time: “real” ou “usr+sys”?
- time.time() do python: OpenTuner;
- Medições dos experimentos vs. medições do OpenTuner.
- “time.time()” vs. “real” vs. “usr+sys” vs. OpenTuner(??)

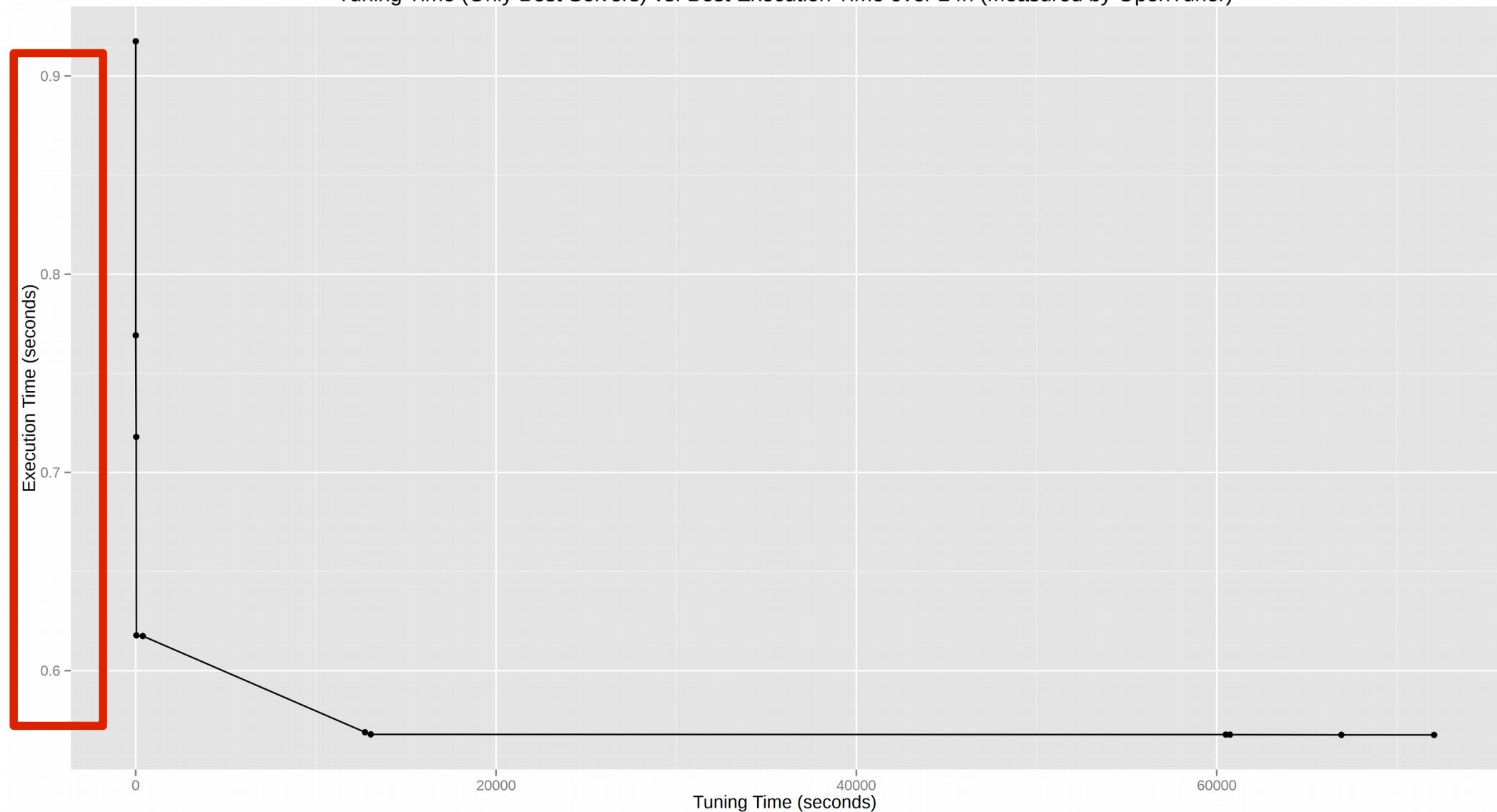
Tempo muito diferente do medido no OpenTuner: “time.time()” vs. “usr+sys”?



Mesmo usando “real”, o tempo medido ainda é bem diferente: “time.time()” vs. “real”?



Tuning Time (Only Best Solvers) vs. Best Execution Time over 24h (Measured by OpenTuner)



Testando o desempenho da solução e do benchmark
enquanto executava o OpenTuner no background: “real” vs. OpenTuner?

Execution Times Over 80 runs (24h) vs Best Solvers (/usr/bin/time: real)

