

Профайлер perf и JVM

alexey.ragozin@gmail.com

Алексей Рагозин

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perf vs Java профайлеры

Linux perf

JDK Flight Recorder

SJK – *DYI профайлер, с сэмплированием дампов потоков*

perf vs Java профайлеры

Linux perf

- Linux required
- Elevated access
- No virtual frames
- No idle thread sampling
- + Efficient
- + Show native code (including JVM)
- + Hardware counters
- + Virtual memory events
- + Kernel profiling

JDK Flight Recorder

- Blind to non-java code
limited support for native
- Blind to idle
- Non uniform sampling
- + Works anywhere
- + No upfront JVM setup
- + Efficient
- + Allocation sampling
- + Exception tracing
- + IO / contention tracing

Thread dump sampling

- High overhead
- “Guilty of all biases”
- + Works anywhere
- + No upfront JVM setup
- + Predictable sampling
- + Wallclock sampling
- + Easy to interpret

Ссылки

<https://bell-sw.com/announcements/2022/04/07/how-to-use-perf-to-monitor-java-performance/>

<https://blog.ragozin.info/2019/03/lies-darn-lies-and-sampling-bias.html>

<https://github.com/jvm-profiling-tools/perf-map-agent>

Спасибо!

Алексей Рагозин
alexey.ragozin@gmail.com
<https://blog.ragozin.info>