

MICRONAUT VS QUARKUS VS SPRING BOOT PERFORMANCE ON JDK 14

GRAEME ROCHER - APRIL 2020

OpenJDK 14 on 2019 iMac Pro Xeon 8 Core. Winner in Red.

METRIC	MICRONAUT 2.0 M2	QUARKUS 1.3.1	SPRING 2.3 M3
Compile Time ./mvn clean compile	1.48s	1.45s	1.33s
Test Time ./mvn test	4.3s	5.8s	7.2s
Start Time Dev Mode	420ms	866ms (1)	920ms
Start Time Production java -jar myjar.jar	510ms	655ms	1.24s
Time to First Response	960ms	890ms	1.85s
Requests Per Second (2)	79k req/sec	75k req/sec	??? (3)
Request Per Second -Xmx18m	50k req/sec	46k req/sec	??? (3)
Memory Consumption After Load Test (-Xmx128m) (4)	290MB	390MB	480MB
Memory Consumption After Load Test (-Xmx18m) (4)	249MB	340MB	430MB

(1) Verifier Disabled

(2) Measured with: `ab -k -c 20 -n 10000 http://localhost:8080/hello/John`

(3) Spring WebFlux doesn't seem to support keep alive?

(4) Measured with: `ps x -o rss,vsz,command | grep java`