

Comparison: Flask (asyncio) vs Spring Boot (multithread)

Metric	Flask (asyncio)	Spring Boot (multithread)	Better
Total Time (s)	82.92	68.31	Spring Boot
Total Requests	10000	10000	Equal
Successful Requests	8500	9650	Spring Boot
Failed Requests	1500	350	Spring Boot
Timeouts	0	0	Equal
Requests per Second	120.59	146.38	Spring Boot
Response Time Min (ms)	6.20	4.82	Spring Boot
Response Time Max (ms)	5768.62	4989.65	Spring Boot
Response Time Mean (ms)	827.16	654.21	Spring Boot
Response Time P50 (ms)	702.03	590.72	Spring Boot
Response Time P90 (ms)	1391.67	1205.48	Spring Boot
Response Time P95 (ms)	1652.32	1503.11	Spring Boot
Response Time P99 (ms)	2453.31	1875.87	Spring Boot
CPU Avg per App (%)	45.96, 45.82	62.75, 61.84	Flask
CPU Total Avg (%)	45.89	62.30	Flask
RAM Avg per App (MB)	75.32, 74.16	215.64, 211.53	Flask
RAM Total Avg (MB)	74.74	213.58	Flask
Status Code 200	8500	9650	Spring Boot
Status Code 400	1500	350	Spring Boot

Summary: For performance, successful requests, and lower latency → Spring Boot is better. For lower resource consumption (CPU/RAM) → Flask is better.