**2021 Performance Comparison: Spring Boot vs Node Js**

The use case:

REST API for a DataBase intensive application,

- with JWT securing and authentication,

- log writing on file system

- dto input validation

1) read LIST of things

2) write thing ( with DTO validation )

3) read thing

4) intensive cpu operation

Environment:

RaspBerryPI 3 B+

CPU Broadcom BCM2837B0, Quad-Core - 64-bit 1.4 GHz

SDRAM LPDDR2 da 1 GB  
 SanDisk Micro SD Card 32 GB

OS: Raspbian GNU/Linux 9.13 (stretch)

Java 11 – jasper

node 14

DataBase:

PostgreSQL. Each test is executed with the database completely cleaned up.  
  
 <https://gist.github.com/GaetanoPiazzolla/5ee8164d349440cb1f30543940945774>

Performance test Software:

Apache Jmeter ( easy and opensource )

Test metrics

1)Startup time:

2)Build time:

3)Built package size:

4)Lines of code written

(for all 4 use cases ):

a)Resilience test – First error after a lot of calls

b)Troughput test – how much calls of read and writes can be satisfied in N seconds

c)Faster Response rate – average time of response