Part 3 - Performance Testing

Git Hub Url: Performance Testing url

We have written 2 functions :

- One in which the time is calculated without running Tests
- And another in which the time is recorded in a csv file with running test cases

we have used time library to calculate time for our script - time.perf_counter()

And in the end we have used Apple Sheets to convert the csv data to Graph

Machine used for performance testing -

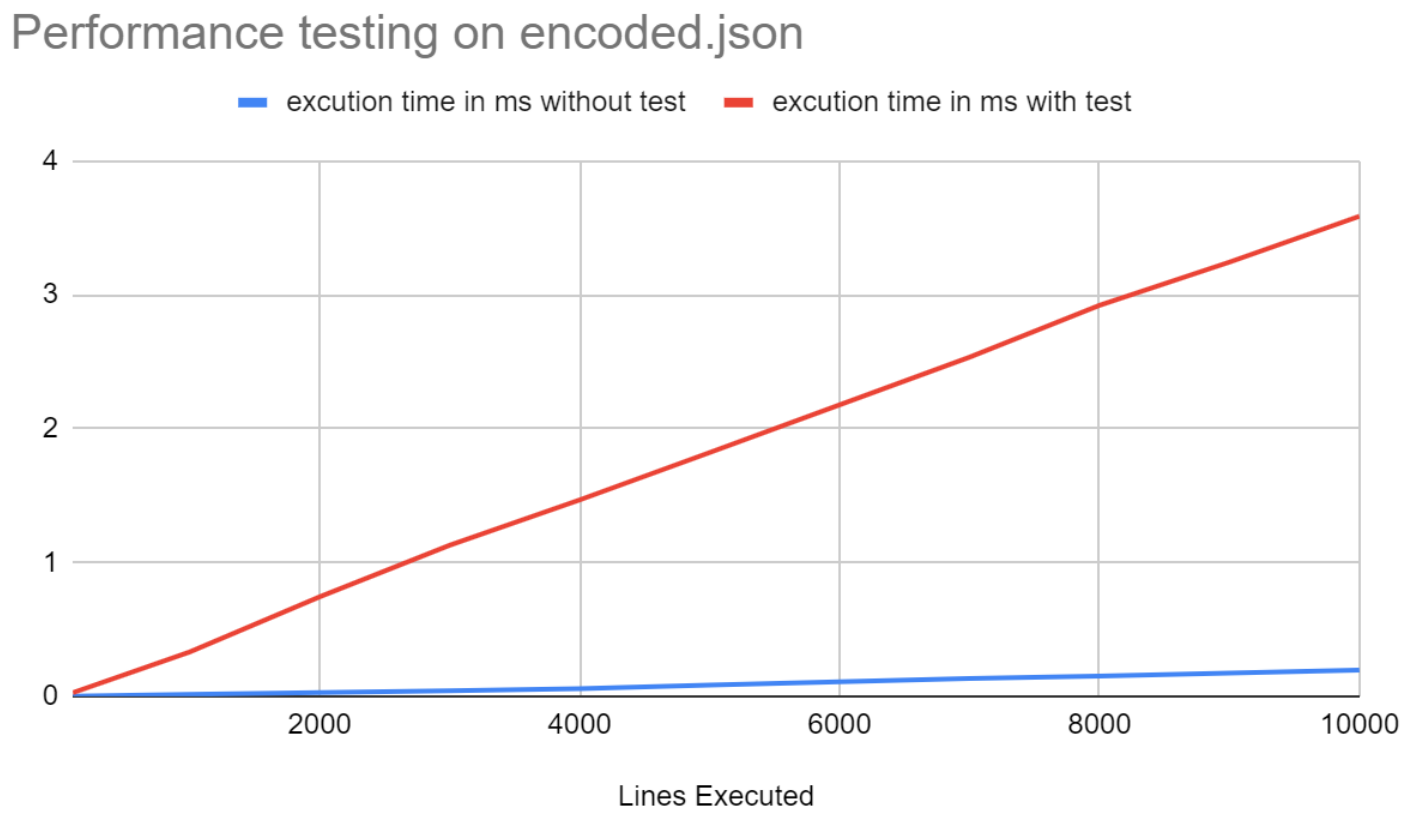
Apple M2 chip

- 8-core CPU with 4 performance cores and 4 efficiency cores
- 8-core GPU
- 16-core Neural Engine
- 100GB/s memory bandwidth
- memory - 16 GiB

Execution Time:

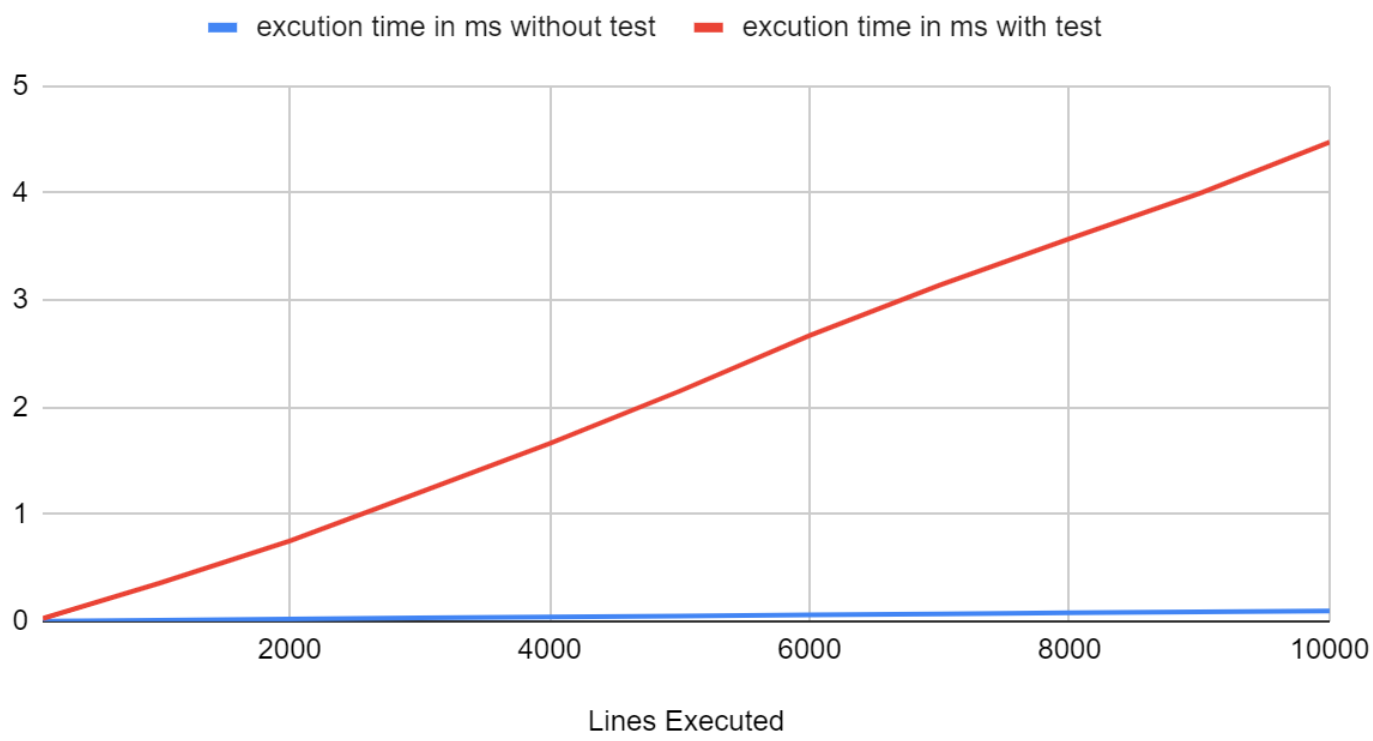
Encoding:
https://docs.google.com/spreadsheets/d/1ECF0wWaNQnx9QjSKAiBJ_Jlx3m6FWskLLUwtaQB5DwY/edit?usp=sharing

Lines Executed	execution time in ms without test	execution time in ms with test
100	0.00136	0.02803
1000	0.014605	0.33151
2000	0.02771	0.743743
3000	0.042094	1.128517
4000	0.057377	1.468263
5000	0.084687	1.821663
6000	0.109265	2.177736
7000	0.132887	2.534092
8000	0.151927	2.920939
9000	0.173752	3.243539
10000	0.19529	3.58625



Decoding:
https://docs.google.com/spreadsheets/d/19PEtNRdzAj8L8EI4cFNu8YtNnGuClrKxE9g6GbgD9o/edit?usp=sharing

Lines Executed	excution time in ms without test	excution time in ms with test
100	0.000999	0.026757
1000	0.010784	0.357009
2000	0.020997	0.751691
3000	0.031264	1.205516
4000	0.041209	1.660844
5000	0.050627	2.149824
6000	0.060251	2.669947
7000	0.069535	3.140494
8000	0.079061	3.573229
9000	0.088173	3.996189
10000	0.097135	4.476168


Performance testing on decoded.json
excution time in ms without test
excution time in ms with test
5
4
3
2
1
0
2000
4000
6000
8000
10000
Lines Executed