

Profiling

Tests with Artillery and default NodeJS profiler

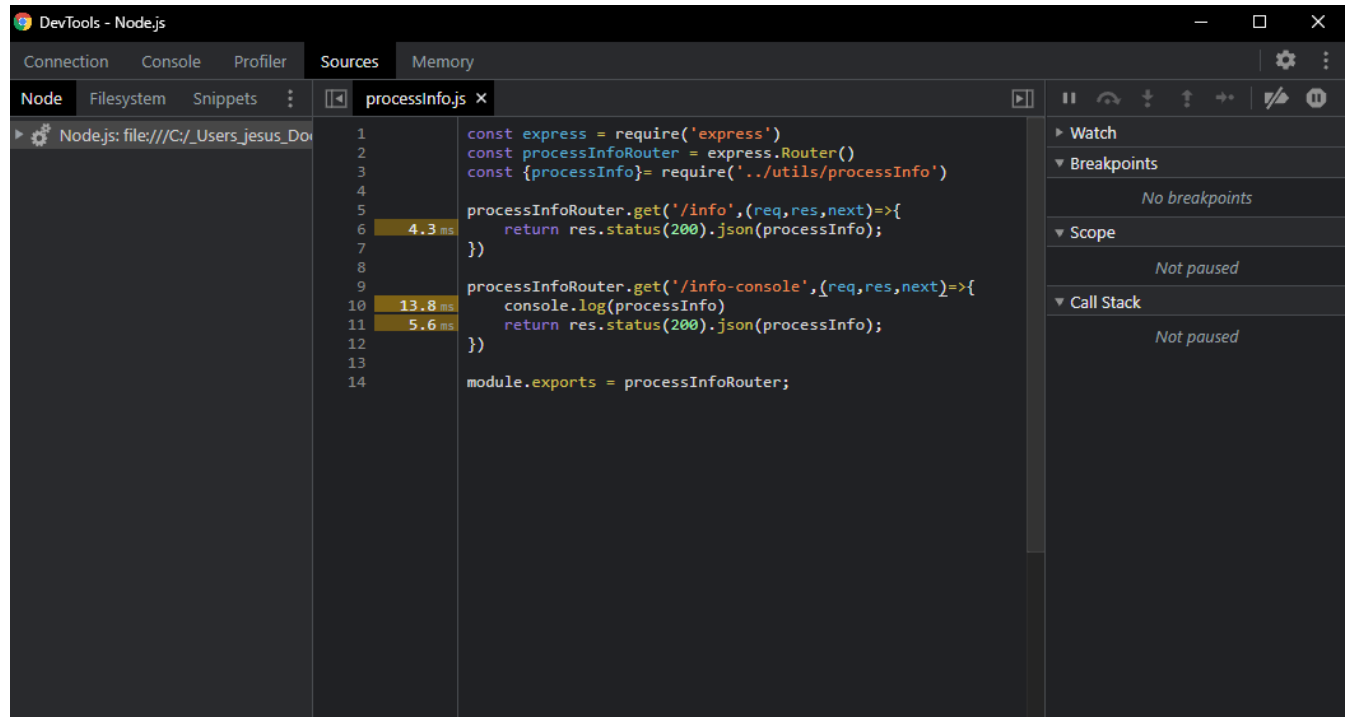
With console.log

```
result_w_console_log.txt U X
backend > desafio31-profiling > result_w_console_log.txt
1 Statistical profiling result from v8.log, (3920 ticks, 0 unaccounted, 0 excluded).
2
3 [Shared libraries]:
4 ticks total nonlib name
5 3836 97.9% C:\Windows\SYSTEM32\ntdll.dll
6 77 2.0% C:\Program Files\nodejs\node.exe
7 4 0.1% C:\Windows\System32\KERNELBASE.dll
8 2 0.1% C:\Windows\System32\KERNEL32.DLL
9
10 [JavaScript]:
11 ticks total nonlib name
12 1 0.0% 100.0% LazyCompile: *resolve path.js:130:10
13
14 [C++]:
15 ticks total nonlib name
16
17 [Summary]:
18 ticks total nonlib name
19 1 0.0% 100.0% JavaScript
20 0 0.0% 0.0% C++
21 3 0.1% 300.0% GC
22 3919 100.0% Shared libraries
23
```

Without console.log

```
result_no_console_log.txt U X
backend > desafio31-profiling > result_no_console_log.txt
1 Statistical profiling result from isolate-000001B15E79CEB0-25608-v8.log, (4379 ticks, 0 unaccounted, 0 excluded).
2
3 [Shared libraries]:
4 ticks total nonlib name
5 4304 98.3% C:\Windows\SYSTEM32\ntdll.dll
6 73 1.7% C:\Program Files\nodejs\node.exe
7
8 [JavaScript]:
9 ticks total nonlib name
10 1 0.0% 50.0% LazyCompile: *resolve path.js:130:10
11 1 0.0% 50.0% LazyCompile: *normalizeString path.js:52:25
12
13 [C++]:
14 ticks total nonlib name
15
16 [Summary]:
17 ticks total nonlib name
18 2 0.0% 100.0% JavaScript
19 0 0.0% 0.0% C++
20 4 0.1% 200.0% GC
21 4377 100.0% Shared libraries
22
```

Test with Artillery and NodeJS inspect



Autocanon tests

With console.log on route

```

jesus@LAPTOP-C6U1GB8P MINGW64 ~/Documents/coderhouse/backend/desafio31-profiling (main)
$ npm test

> desafio31-profiling@1.0.0 test C:\Users\jesus\Documents\coderhouse\backend\desafio31-profiling
> node benchmarks.js

Running 20s test @ http://localhost:8080/info
100 connections

```

Stat	2.5%	50%	97.5%	99%	Avg	Stdev	Max
Latency	35 ms	116 ms	195 ms	222 ms	114.46 ms	36.15 ms	323 ms

Stat	1%	2.5%	50%	97.5%	Avg	Stdev	Min
Req/Sec	462	462	904	967	868.5	108.98	462
Bytes/Sec	289 kB	289 kB	564 kB	604 kB	542 kB	68 kB	288 kB

Req/Bytes counts sampled once per second.

17k requests in 20.05s, 10.8 MB read

Without console.log on route

```

jesus@LAPTOP-C6U1GB8P MINGW64 ~/Documents/coderhouse/backend/desafio31-profiling (main)
$ npm test

> desafio31-profiling@1.0.0 test C:\Users\jesus\Documents\coderhouse\backend\desafio31-profiling
> node benchmarks.js

Running 20s test @ http://localhost:8080/info
100 connections

```

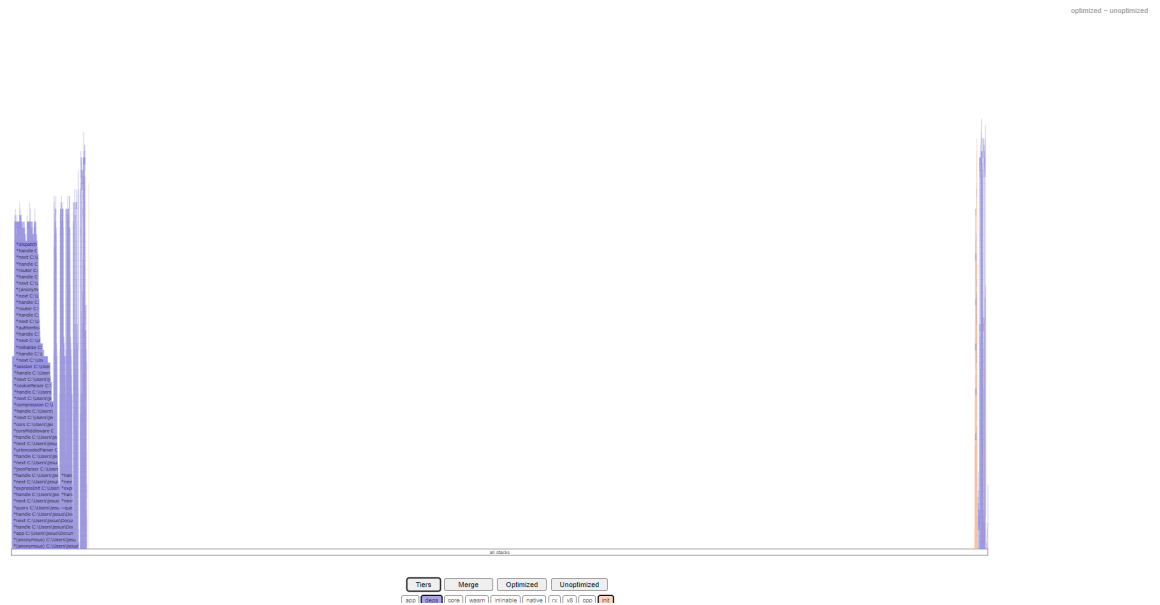
Stat	2.5%	50%	97.5%	99%	Avg	Stdev	Max
Latency	18 ms	25 ms	49 ms	57 ms	26.86 ms	8.45 ms	97 ms

Stat	1%	2.5%	50%	97.5%	Avg	Stdev	Min
Req/Sec	2471	2471	3769	3985	3654.8	402.47	2471
Bytes/Sec	1.54 MB	1.54 MB	2.35 MB	2.49 MB	2.28 MB	251 kB	1.54 MB

Req/Bytes counts sampled once per second.

73k requests in 20.04s, 45.6 MB read

Flame test with Autocannon



To the left, the console.log test to the route “/info-console”

To the right the test to the route “/info” with no console.log

Conclusion

De los test se denota que el console.log ciertamente bloquea o ralentiza la ejecución de los procesos de la app.

En este caso no es tan perceptible (13 milisegundos tarde ese console.log), pero en procesos bloqueantes de mayor tamaño si podría ser un problema.