ANÁLISIS DE PERFORMANCE – NODE SERVER

Se realizan pruebas de rendimiento a servidor en Node.

Se hacen requests a la ruta /info, comparando la performance con/sin console.log.

· Se realizan tests en Artillery (artillery quick -c 40 -n 20), corriendo el servidor en modo --prof. Luego se procesan los resultados con --prof-process.

Resultados del proceso con console.log

```
[Summary]:

ticks total nonlib name

7 0.3% 100.0% JavaScript

0 0.0% 0.0% C++

3 0.1% 42.9% GC

2590 99.7% Shared libraries
```

Resultados del proceso sin console.log

```
[Summary]:
ticks total nonlib name
11 0.3% 100.0% JavaScript
0 0.0% 0.0% C++
21 0.5% 190.9% GC
3901 99.7% Shared libraries
```

· Se realizan tests en modo --inspect y se analizan desde chrome://inspect

Resultados del proceso con console.log

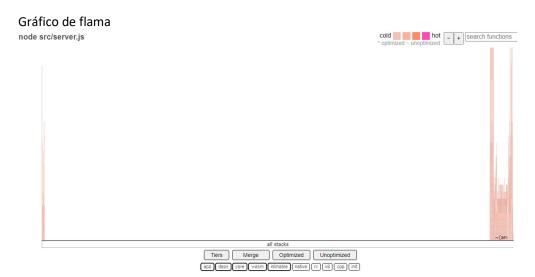
```
∨ Self Time
                       Total Time File
51.430,04ms
                   51.430,04ms
                      489,70ms writeUtf8String
   489,70ms
   269,31ms
                       269,31ms
                                    (program)
                       346,77ms deserializeObj_
                                                           ...use/Node/5/Entrega 8-16/backend-desafios-coder/node_modules/bson/lib/parser/deserializer.js:65
    70,93ms
                  1.411,91ms initiali. ...rhouse/Node/S/Entrega 8-16/backend-desafios-coder/node_modules/passport/lib/middleware/initialize.js:51
                     113,72ms nextTick
    64,57ms
                                                                                                            node:internal/process/task gueues:104
    50,28ms
                     275,45ms cookiePars. ...VS/Coderhouse/NodeJS/Entrega 8-16/backend-desafios-coder/node_modules/cookie-parser/indexjs:44
    45,21ms
                    253,07ms > serializeIn. ...derhouse/Node/S/Entrega 8-16/backend-desafios-coder/node_modules/bson/lib/parser/serializer.js:553
    42,65ms
                       42,65ms > Long
                                                           d:/VS/Coderhouse/Node/S/Entrega 8-16/backend-desafios-coder/node_modules/bson/lib/long.js:59
    42,64ms
                  2.372,98ms > emit
    41,89ms
                      41,89ms asyncTaskScheduled
                                    > COMMa... ...oderhouse/NodeJS/Entrega 8-16/backend-desafios-coder/node_modules/mongodb/lib/cmap/connection.js:251
                                    > handle
                                                   d:/VS/Coderhouse/Node/S/Entrega 8-16/backend-desafios-coder/node_modules/express/lib/router/layer.js:86
    36.57ms
                      403,67ms (anonymo_ ...elS/Entrega 8-16/backend-desafios-coder/node_modules/connect-mongo/build/main/lib/MongoStore.js:236
                    199,04ms > session dt/VS/Coderhouse/NodelS/Entrega 8-16/backend-desafios-coder/node_modules/express-session/index.js:179
    35,15ms
    33,61ms
                      191,93ms compression d;//S/Coderhouse/Node/S/Entrega 8-16/backend-desafios-coder/node_modules/compression/index.js:59
                                                   d:/VS/Coderhouse/NodeJS/Entrega 8-16/backend-desafios-coder/node_modules/express-session/index.js:596
```

Resultados del proceso sin console.log

```
∨ Self Time
                     Total Time File
54.086,83ms
                  54.086,83ms (idle)
                     373,75ms > writeUtf8String
   373,75ms
                     161,74ms (program)
   161,74ms
   129,99ms
                     129,99ms writev
                     127,38MS > WriteBuffer
396,90MS > descrializeObj_ ...use/Node/S/Entrega &-16/backend-desafios-coder/node_modules/bson/lib/parser/desc
                     127,38ms
   119,22ms
    67,94ms
                     119,11ms > nextTick
    66,08ms
                 1.327,69ms initiali. ...rhouse/Node/5/Entrega 8-16/backend-desafios-coder/node_modules/passport/lib/middleware/initialize.js:51
    62,66ms
                     336,06ms > serializeIn... ...derhouse/Node/S/Entrega 8-16/backend-desafios-coder/node_modules/bson/lib/parser/serializer.js:553
                     529,99ms > comma...
    49,56ms
                                               ...oderhouse/NodeJS/Entrega 8-16/backend-desafios-coder/node_modules/mongodb/lib/cmap/connection.js:251
    44,63ms
                   43,78ms
                      43,78ms → asyncTaskScheduled
                      40,20ms > Long
                                                       d:/VS/Coderhouse/Node/S/Entrega 8-16/backend-desafios-coder/node_modules/bson/lib/long.js:59
                   7.409.50ms > next
    39.31ms
                                              d:/VS/Coderhouse/Node/S/Entrega 8-16/backend-desafios-coder/node_modules/express/lib/router/index.is:177
    38,01ms
                     436,38ms (anonymo... ...e/S/Entrega 8-16/backend-desafios-coder/node_modules/connect-mongo/build/main/lib/MongoStore.js:236
    37,92ms
                     202_,20ms > compression d:/VS/Coderhouse/Node/IS/Entrega 8-16/backend-desafios-coder/node_modules/compression/index.js:59
                                  > handle d:/VS/Coderhouse/Node/S/Entrega 8-16/backend-desafios-coder/node_modules/express/lib/router/layer.js:86
                      86,03ms hash
    35,07ms
                                                 d:/VS/Coderhouse/NodeJS/Entrega 8-16/backend-desafios-coder/node_modules/express-session/index.js:596
    32,39ms
                     52,02ms Store.createSes. ...Node/S/Entrega 8-16/backend-desafios-coder/node_modules/express-session/session/store.js:86
    32,38ms
                    32,38ms Hash
```

· Se corre el server con 0x para realizar un gráfico de flama y se realizan tests con autocannon (desde código)





Conclusión

Se puede observar que el proceso corriendo sin console.log es más rápido al responder que el proceso con console.log.

En la carpeta Performance se adjuntan todos los resultados.