

# Profiling

## Con console.log()

### 1) Node.js Prof.

```
1 result-prof-bloq.txt
2
3
4 [Shared libraries]:
5 ticks total nonlib name
6 3962 86.9% C:\WINDOWS\SYSTEM32\ntdll.dll
7 572 12.5% C:\Program Files\nodejs\node.exe
8
9 [JavaScript]:
10 ticks total nonlib name
11 8 0.2% 30.8% RegExp: [ \t]*<%_
12 4 0.1% 15.4% LazyCompile: *next C:\AppServ\www\curso-programacion-backend-coderhouse\node_modules\express\lib\router\index.js:176:16
13 3 0.1% 11.5% LazyCompile: *scanLine C:\AppServ\www\curso-programacion-backend-coderhouse\node_modules\ejs\lib\ejs.js:803:22
14 2 0.0% 7.7% LazyCompile: *resolve path.js:153:10
15 1 0.0% 3.8% RegExp: ^\app\/?(?=/|/|$)
16 1 0.0% 3.8% RegExp: [/\{\}()[\]]*??.]
17 1 0.0% 3.8% LazyCompile: *nextTick internal/process/task_queues.js:103:18
18 1 0.0% 3.8% LazyCompile: *log C:\AppServ\www\curso-programacion-backend-coderhouse\node_modules\winston\lib\winston\transports\console.js:44:6
19 1 0.0% 3.8% LazyCompile: *isBelowBreaklength internal/util/inspect.js:1711:28
20 1 0.0% 3.8% LazyCompile: *hash C:\AppServ\www\curso-programacion-backend-coderhouse\node_modules\express-session\index.js:596:14
21 1 0.0% 3.8% LazyCompile: *Writable.write
22 C:\AppServ\www\curso-programacion-backend-coderhouse\node_modules\winston-transport\node_modules\readable-stream\lib\_stream_writable.js:288:37
23
24 [C++]:
25 ticks total nonlib name
26
27 [Summary]:
28 ticks total nonlib name
29 25 0.5% 96.2% JavaScript
30 0 0.0% 0.0% C++
31 12 0.3% 46.2% GC
32 4534 99.4% Shared libraries
33 1 0.0% Unaccounted
34
35 [C++ entry points]:
36 ticks cpp total name
37
38 [Bottom up (heavy) profile]:
39 Note: percentage shows a share of a particular caller in the total
40 amount of its parent calls.
41 Callers occupying less than 1.0% are not shown.
```

### 2) Node.js Inspect.

```
Yonathan Moncada@DESKTOP-CSA5PF7 MINGW64 /c/AppServ/www/curso-programacion-backend-coderhouse (main)
$ node benchmark.js
Running benchmarks in Parallel
Running 20s test @ http://localhost:8080/info
100 connections
```

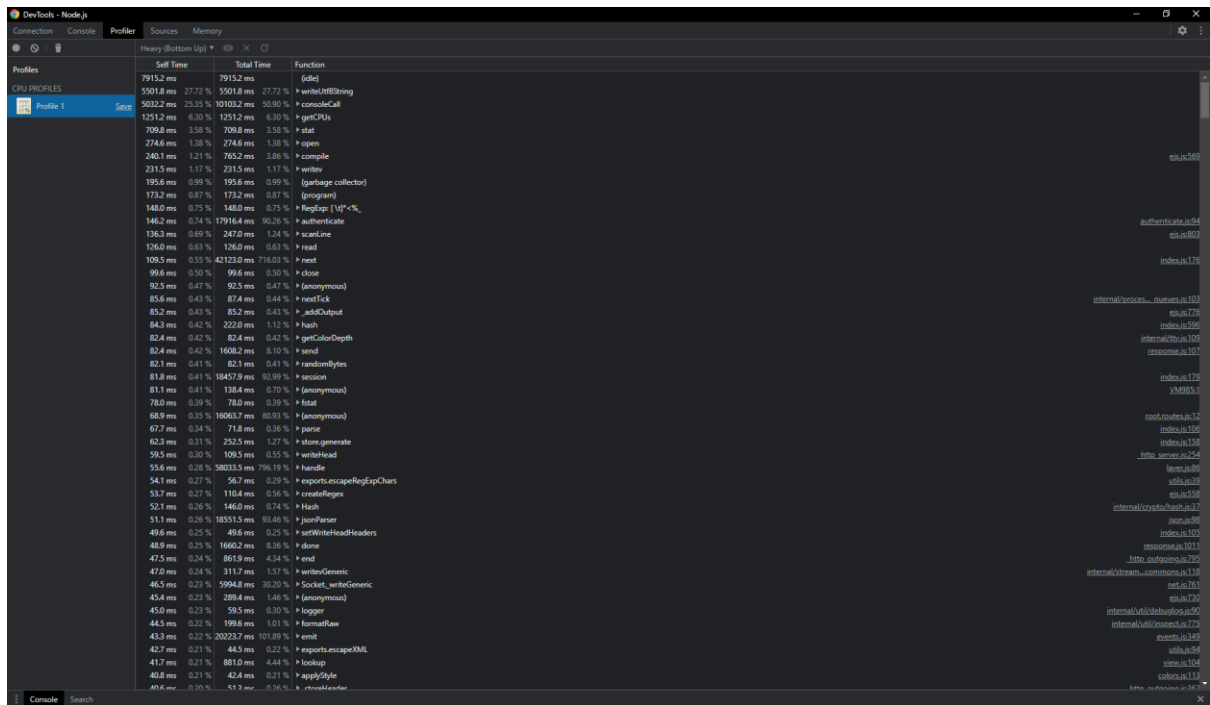
Stat	2.5%	50%	97.5%	99%	Avg	Stdev	Max
Latency	360 ms	393 ms	460 ms	490 ms	394.85 ms	35.23 ms	501 ms

Stat	1%	2.5%	50%	97.5%	Avg	Stdev	Min
Req/Sec	214	214	251	271	251	15.22	214
Bytes/Sec	420 kB	420 kB	492 kB	531 kB	492 kB	29.9 kB	419 kB

Req/Bytes counts sampled once per second.  
# of samples: 20

5k requests in 20.06s, 9.84 MB read



```

1  const express = require('express');
2  const compression = require('compression');
3  const os = require('os');
4  const logger = require('../utils/logger.utils');
5
6  const rootRouter = express.Router();
7
8  rootRouter.get('/', function(req, res) {
9    res.redirect('/app/auth/login');
10 });
11
12 rootRouter.get('/info', (req, res) => {
13   const info = {
14     inputArguments: process.argv.slice(2),
15     cpus: os.cpus().length,
16     platformName: process.platform,
17     nodeJsVersion: process.version,
18     reservedTotalMemory: process.memoryUsage().rss,
19     executionPath: process.execPath,
20     processId: process.pid,
21     projectFolder: process.cwd()
22   };
23
24   console.log(info);
25
26   res.render('pages/info.ejs', { info });
27 });
28
29 rootRouter.get('/info-compression', compression(), (req, res) => {
30   res.render('pages/info.ejs', { process: process, cwd: process.cwd(), rss: process.memoryUsage().rss, argv: process.argv.slice(2), cpus: os.cpus().length });
31 });
32
33 rootRouter.all('*', (req, res) => {
34   logger.write(`${req.method} ${req.protocol} ${req.get('host')} ${req.originalUrl} es inexistente en el servidor.`);
35   res.json({status: false});
36 });
37
38 module.exports = rootRouter;

```

3) 0x.

[illegible]

## 1) Node.js Prof.

```

1 result-prof-nbolog.txt
2
3 Statistical profiling result from .\isolate-000001F800B27AC0-8856-v8.log, (3057 ticks, 3 unaccounted, 0 excluded).
4
5 [Shared Libraries]:
6
7 ticks total nonlib name
8
9 2504 81.9% C:\WINDOWS\SYSTEM32\ntdll.dll
10 491 16.1% C:\Program Files\nodejs\node.exe
11 4 0.1% C:\WINDOWS\System32\KERNELBASE.dll
12
13
14 [JavaScript]:
15
16 ticks total nonlib name
17
18 16 0.5% 27.6% RegExp: [ \t]*%<
19 4 0.1% 6.9% LazyCompile: *scanLine C:\AppServ\www\curso-programacion-backend-coderhouse\node_modules\ejs\lib\ejs.js:803:22
20 2 0.1% 3.4% RegExp: [<|>|'|"|<|>|'|"|<|>|'|"|<|>]
21 2 0.1% 3.4% LazyCompile: *resolve path.js:153:10
22 2 0.1% 3.4% LazyCompile: *processTicksAndRejections internal/process/task_queues.js:67:35
23 2 0.1% 3.4% LazyCompile: *normalize path.js:299:12
24 2 0.1% 3.4% LazyCompile: *next C:\AppServ\www\curso-programacion-backend-coderhouse\node_modules\express\lib\router\index.js:176:16
25 1 0.0% 1.7% RegExp: ^([a-zA-Z0-9_!#$%&*+.|-]+)$
26 1 0.0% 1.7% LazyCompile: *toNamespacedPath path.js:609:19
27 1 0.0% 1.7% LazyCompile: *stringifyFnReplacer C:\AppServ\www\curso-programacion-backend-coderhouse\node_modules\safe-stable-stringify\index.js:203:32
28 1 0.0% 1.7% LazyCompile: *send C:\AppServ\www\curso-programacion-backend-coderhouse\node_modules\express\lib\response.js:107:25
29 1 0.0% 1.7% LazyCompile: *resOnFinish http_server.js:761:21
30 1 0.0% 1.7% LazyCompile: *readSync fs.js:577:18
31 1 0.0% 1.7% LazyCompile: *pipe C:\AppServ\www\curso-programacion-backend-coderhouse\node_modules\send\index.js:510:43
32 1 0.0% 1.7% LazyCompile: *parserOnHeadersComplete http_common.js:75:33
33 1 0.0% 1.7% LazyCompile: *ondata C:\AppServ\www\curso-programacion-backend-coderhouse\node_modules\winston\node_modules\readable-stream\lib\_stream_readable.js:104:40
34 1 0.0% 1.7% LazyCompile: *lookup C:\AppServ\www\curso-programacion-backend-coderhouse\node_modules\express\lib\view.js:104:40
35 1 0.0% 1.7% LazyCompile: *getStatsFromBinding internal/fs/utils.js:495:29
36 1 0.0% 1.7% LazyCompile: *getHeader http_outgoing.js:575:57
37 1 0.0% 1.7% LazyCompile: *getDefaultTriggerAsyncId internal/async_hooks.js:412:34
38 1 0.0% 1.7% LazyCompile: *exports.shallowCopyFromList C:\AppServ\www\curso-programacion-backend-coderhouse\node_modules\ejs\lib\utils.js:135:40
39 1 0.0% 1.7% LazyCompile: *exports.renderFile C:\AppServ\www\curso-programacion-backend-coderhouse\node_modules\ejs\lib\ejs.js:439:31
40 1 0.0% 1.7% LazyCompile: *etag C:\AppServ\www\curso-programacion-backend-coderhouse\node_modules\etag\index.js:70:15
41 1 0.0% 1.7% LazyCompile: *endReadableNT internal/stream/readable.js:1310:23
42 1 0.0% 1.7% LazyCompile: *compile C:\AppServ\www\curso-programacion-backend-coderhouse\node_modules\ejs\lib\ejs.js:569:21
43 1 0.0% 1.7% LazyCompile: *authenticate C:\AppServ\www\curso-programacion-backend-coderhouse\node_modules\passport\lib\middleware\authenticate.js:94:31
44 1 0.0% 1.7% LazyCompile: *allocate buffer.js:407:18
45 1 0.0% 1.7% LazyCompile: *afterWrite C:\AppServ\www\curso-programacion-backend-coderhouse\node_modules\winston-transport\node_modules\readable-stream\lib\_stream_writable.js:104:40
46 1 0.0% 1.7% LazyCompile: *transform C:\AppServ\www\curso-programacion-backend-coderhouse\node_modules\winston\lib\winston\logger.js:275:13
47 1 0.0% 1.7% LazyCompile: *Readable.read internal/stream/readable.js:371:35
48 1 0.0% 1.7% LazyCompile: *<anonymous> C:\AppServ\www\curso-programacion-backend-coderhouse\src\routers\root.routes.js:12:25
49 1 0.0% 1.7% LazyCompile: *<anonymous> <anonymous>:1:30
50

```

## 2) Node.js Inspect.

```
Yonathan Moncada@DESKTOP-C5A5PF7 MINGW64 /c/AppServ/www/curso-programacion-backend-coderhouse (main)
$ npm test
```

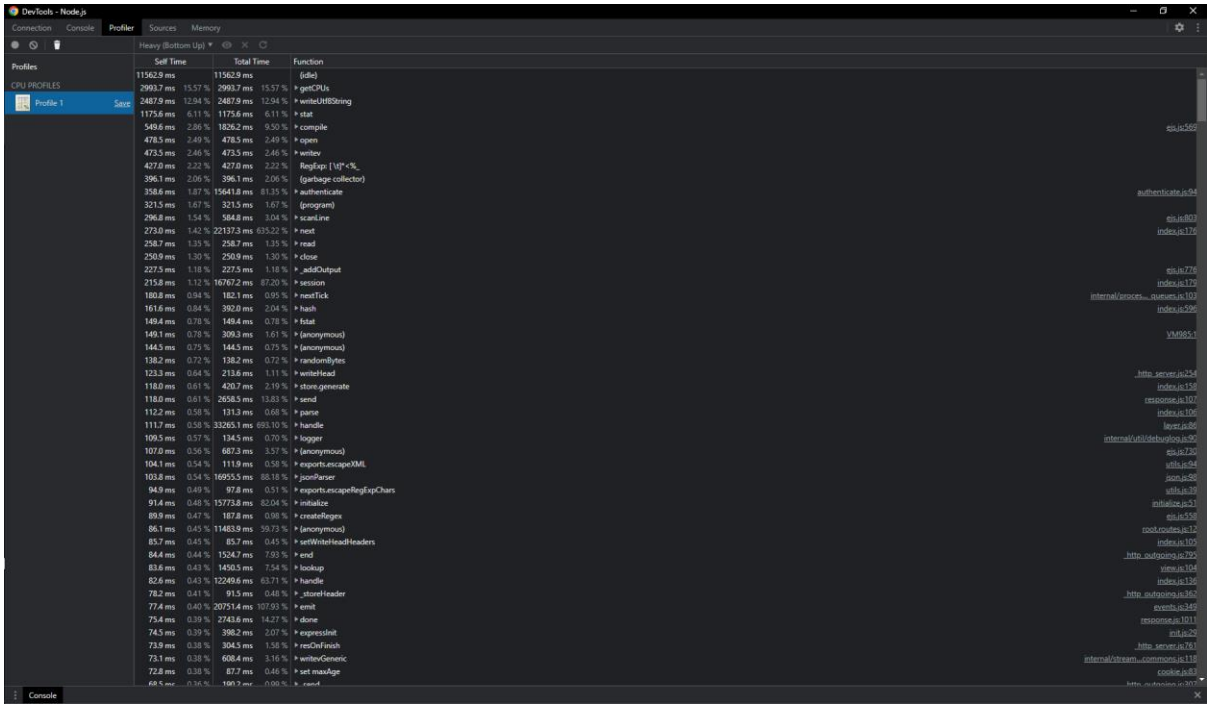
```
> websockets@1.0.0 test C:\AppServ\www\curso-programacion-backend-coderhouse
> node benchmark.js
```

```
Running benchmarks in Parallel
Running 20s test @ http://localhost:8080/info
100 connections
```

Stat	2.5%	50%	97.5%	99%	Avg	Stdev	Max
Latency	100 ms	118 ms	207 ms	231 ms	125.18 ms	25.76 ms	250 ms

```
Req/Bytes counts sampled once per second.
# of samples: 20
```

```
16k requests in 20.03s, 31.1 MB read
```



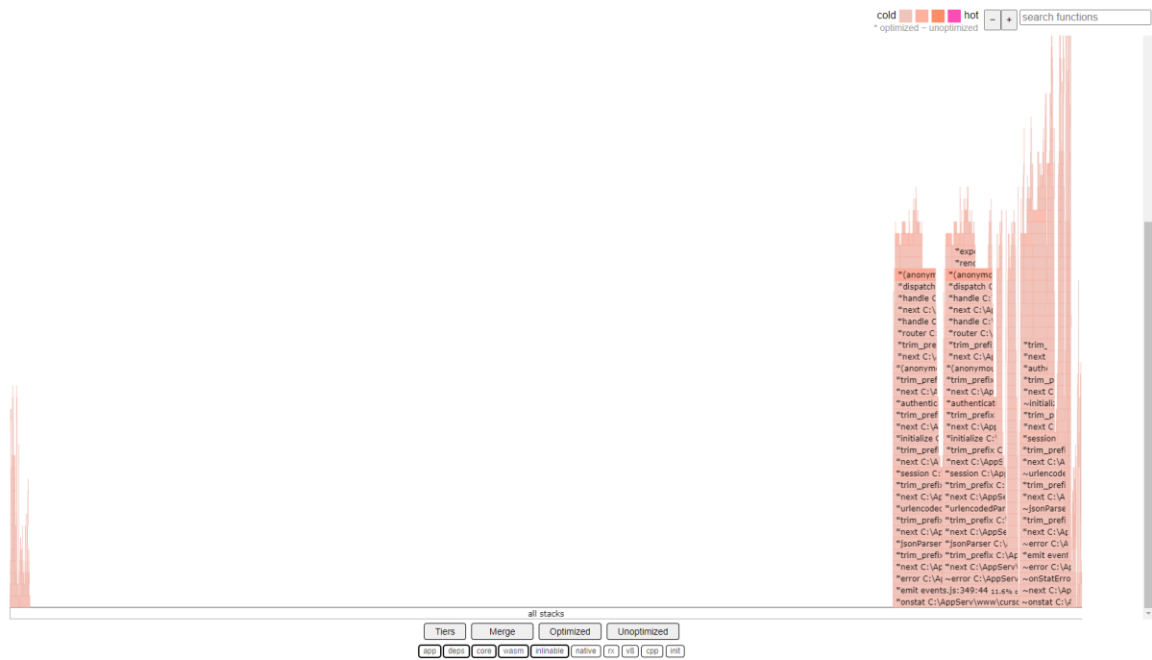
```

1      const express = require('express');
2      const compression = require('compression');
3      const os = require('os');
4      const logger = require('../utils/logger.utils');
5
6      const rootRouter = express.Router();
7
8      rootRouter.get('/', function(req, res) {
9        res.redirect('/app/auth/login');
10     });
11
12     rootRouter.get('/info', (req, res) => {
13       const info = {
14         inputArguments: process.argv.slice(2),
15         cpus: os.cpus().length,
16         platformName: process.platform,
17         nodeJsVersion: process.version,
18         reservedFullMemory: process.memoryUsage().rss,
19         executionPath: process.execPath,
20         processId: process.pid,
21         projectFolder: process.cwd()
22       };
23
24       /* console.log(info); */
25
26       res.render('pages/info.ejs', { info });
27     });
28
29     rootRouter.get('/info-compression', compression(), (req, res) => {
30       res.render('pages/info.ejs', { process: process, cwd: process.cwd(), rss: process.memoryUsage().rss, argv: process.argv.slice(2), cpus: os.cpus().length });
31     });
32
33     rootRouter.all('*', (req, res) => {
34       logger.write('warn', `La ruta ${req.method} ${req.protocol + '://' + req.get('host') + req.originalUrl} es inexistente en el servidor.`);
35       res.json({status: false});
36     });
37
38     module.exports = rootRouter;

```

**3) 0x.**

node .



## Conclusión

Podemos notar en los resultados, que el `console.log()` implica que el proceso tenga un mayor consumo o una mayor carga, ya que éste es considerado un procedimiento bloqueante.