

# Desafío Clase 32

Análisis completo de performance.

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## Artillery

Sin console.log:

```
http.codes.200: ..... 1000
http.request_rate: ..... 476/sec
http.requests: ..... 1000
http.response_time:
  min: ..... 5
  max: ..... 135
  median: ..... 68.7
  p95: ..... 111.1
  p99: ..... 125.2
http.responses: ..... 1000
vusers.completed: ..... 50
vusers.created: ..... 50
vusers.created_by_name.0: ..... 50
vusers.failed: ..... 0
vusers.session_length:
  min: ..... 1143.6
  max: ..... 1489.2
  median: ..... 1353.1
  p95: ..... 1465.9
  p99: ..... 1495.5
```

Con console.log:

```
http.codes.200: ..... 1000
http.request_rate: ..... 326/sec
http.requests: ..... 1000
http.response_time:
  min: ..... 6
  max: ..... 170
  median: ..... 73
  p95: ..... 135.7
  p99: ..... 144
http.responses: ..... 1000
vusers.completed: ..... 50
vusers.created: ..... 50
vusers.created_by_name.0: ..... 50
vusers.failed: ..... 0
vusers.session_length:
  min: ..... 1292.9
  max: ..... 1614.1
  median: ..... 1495.5
  p95: ..... 1620
  p99: ..... 1620
```

## Node Inspect

Sin console.log:

| Self Time | Total Time | Function  |
|-----------|------------|---|
| 5347.5 ms | 5347.5 ms  | (idle)  |
| 1.0 ms    | 1.60 %     | ▶ handle layer.js:89  |
| 0.8 ms    | 1.37 %     | ▶ trim_prefix index.js:293                                    |
| 0.1 ms    | 0.23 %     | ▶ next route.js:116   |
| 0.0 ms    | 0.00 %     | ▶ (anonymous) index.js:280                                    |
| 0.4 ms    | 0.63 %     | ▶ next index.js:177   |
| 0.0 ms    | 0.00 %     | ▶ process_params index.js:338                                 |
| 0.1 ms    | 0.23 %     | ▶ (anonymous) index.js:280                                    |
| 0.0 ms    | 0.00 %     | ▶ trim_prefix index.js:293                                    |
| 0.1 ms    | 0.23 %     | ▶ (anonymous) express-handlebars.js:5                         |
| 1.0 ms    | 1.60 %     | ▶ step express-handlebars.js:3                                |
| 0.5 ms    | 0.91 %     | ▶ emit node:events:460  |
| 0.0 ms    | 0.00 %     | fulfilled express-handlebars.js:5                             |
| 1.4 ms    | 2.23 %     | callbackTrampoline node:internal/async_hooks:118              |
| 0.1 ms    | 0.23 %     | ▶ __awaiter express-handlebars.js:5                           |
| 0.1 ms    | 0.63 %     | ▶ (anonymous) express-handlebars.js:5                         |
| 0.1 ms    | 0.23 %     | ▶ (anonymous) express-handlebars.js:184                       |
| 0.0 ms    | 0.00 %     | ▶ ExpressHandlebars._renderTemplate express-handlebars.js:302 |
| 0.1 ms    | 0.23 %     | ▶ ret semver.js:644   |
| 0.0 ms    | 0.00 %     | ▶ next route.js:116   |
| 0.4 ms    | 0.63 %     | ▶ compileInput compiler.js:531                                |
| 0.8 ms    | 1.37 %     | ▶ (anonymous) express-handlebars.js:221                       |

Con console.log:

| Self Time | Total Time | Function  |
|-----------|------------|---|
| 9336.9 ms | 9336.9 ms  | (idle)  |
| 1.0 ms    | 1.47 %     | ▶ handle layer.js:89  |
| 0.4 ms    | 0.63 %     | ▶ next index.js:177   |
| 0.1 ms    | 0.21 %     | ▶ (anonymous) index.js:280                                    |
| 0.0 ms    | 0.00 %     | ▶ process_params index.js:338                                 |
| 0.0 ms    | 0.00 %     | ▶ trim_prefix index.js:293                                    |
| 0.3 ms    | 0.42 %     | ▶ (anonymous) express-handlebars.js:5                         |
| 1.1 ms    | 1.63 %     | ▶ step express-handlebars.js:3                                |
| 0.5 ms    | 0.84 %     | ▶ emit node:events:460  |
| 0.3 ms    | 0.84 %     | callbackTrampoline node:internal/async_hooks:118              |
| 0.0 ms    | 0.00 %     | fulfilled express-handlebars.js:5                             |
| 0.0 ms    | 0.00 %     | ▶ next route.js:116   |
| 0.1 ms    | 0.21 %     | ▶ __awaiter express-handlebars.js:5                           |
| 0.4 ms    | 0.63 %     | ▶ (anonymous) express-handlebars.js:5                         |
| 0.3 ms    | 0.42 %     | ▶ (anonymous) express-handlebars.js:184                       |
| 0.1 ms    | 0.21 %     | ▶ ExpressHandlebars._renderTemplate express-handlebars.js:302 |
| 0.1 ms    | 0.21 %     | ▶ ret compiler.js:544   |
| 0.3 ms    | 0.42 %     | ▶ handle index.js:126   |
| 0.1 ms    | 0.21 %     | ▶ (anonymous) node.js:208                                     |
| 0.1 ms    | 0.21 %     | ▶ onstat index.js:717   |
| 0.4 ms    | 0.63 %     | ▶ compileInput semver.js:631                                  |
| 0.1 ms    | 0.21 %     | ▶ error index.js:267  |
| 0.0 ms    | 0.00 %     | ▶ next index.js:728   |

# Autocannon

Sin console.log:

| Stat    | 2.5%   | 50%    | 97.5%  | 99%    | Avg       | Stdev    | Max    |
|---------|--------|--------|--------|--------|-----------|----------|--------|
| Latency | 116 ms | 122 ms | 176 ms | 199 ms | 127.36 ns | 17.23 ms | 342 ms |

| Stat      | 1%     | 2.5%   | 50%    | 97.5%   | Avg    | Stdev   | Min    |
|-----------|--------|--------|--------|---------|--------|---------|--------|
| Req/Sec   | 487    | 487    | 801    | 882     | 779.85 | 81.93   | 487    |
| Bytes/Sec | 572 kB | 572 kB | 942 kB | 1.04 MB | 916 kB | 96.3 kB | 572 kB |

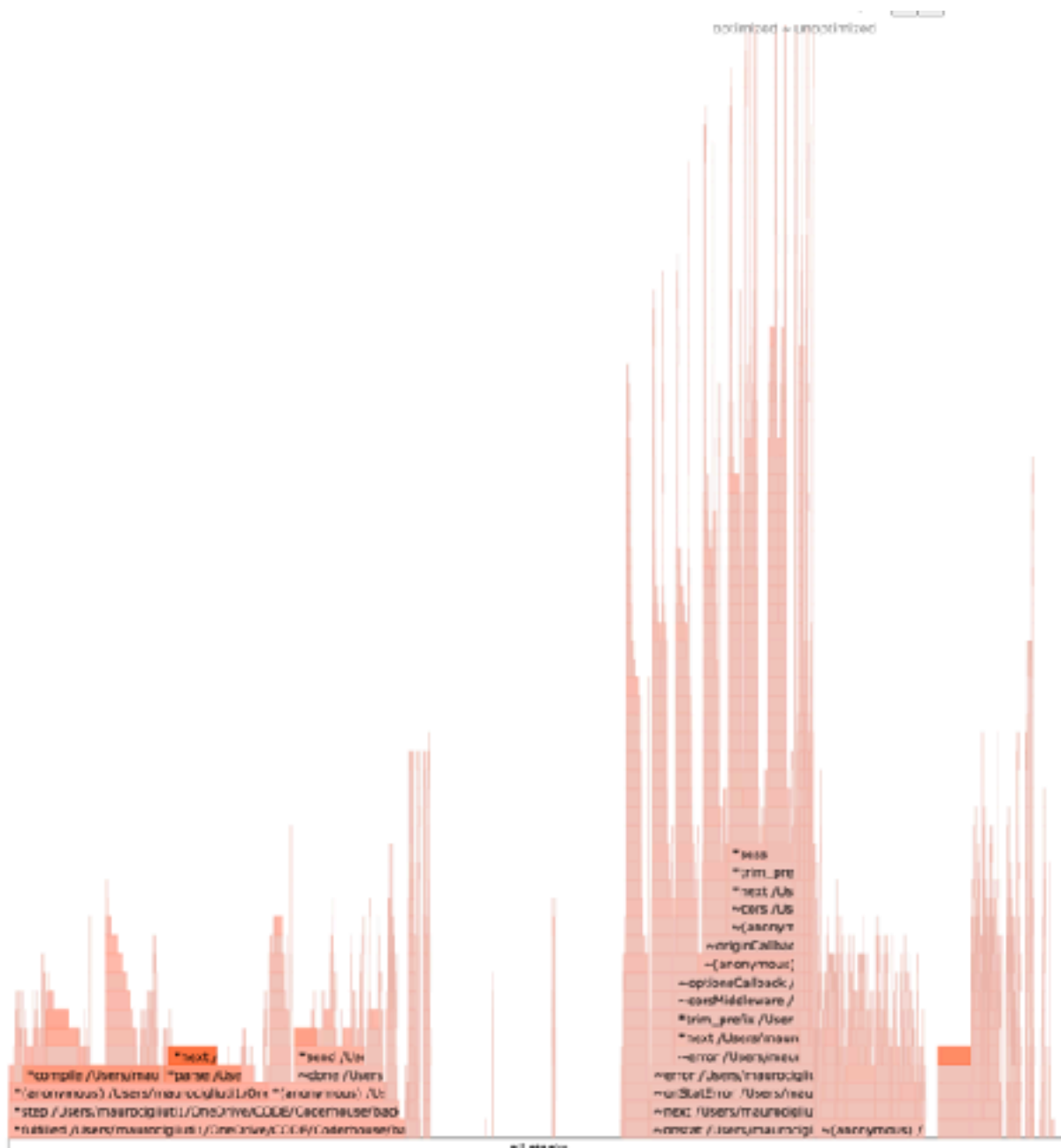
Con console.log:

| Stat    | 2.5%   | 50%    | 97.5%  | 99%    | Avg       | Stdev    | Max    |
|---------|--------|--------|--------|--------|-----------|----------|--------|
| Latency | 116 ms | 122 ms | 176 ms | 199 ms | 127.36 ns | 17.23 ms | 342 ms |

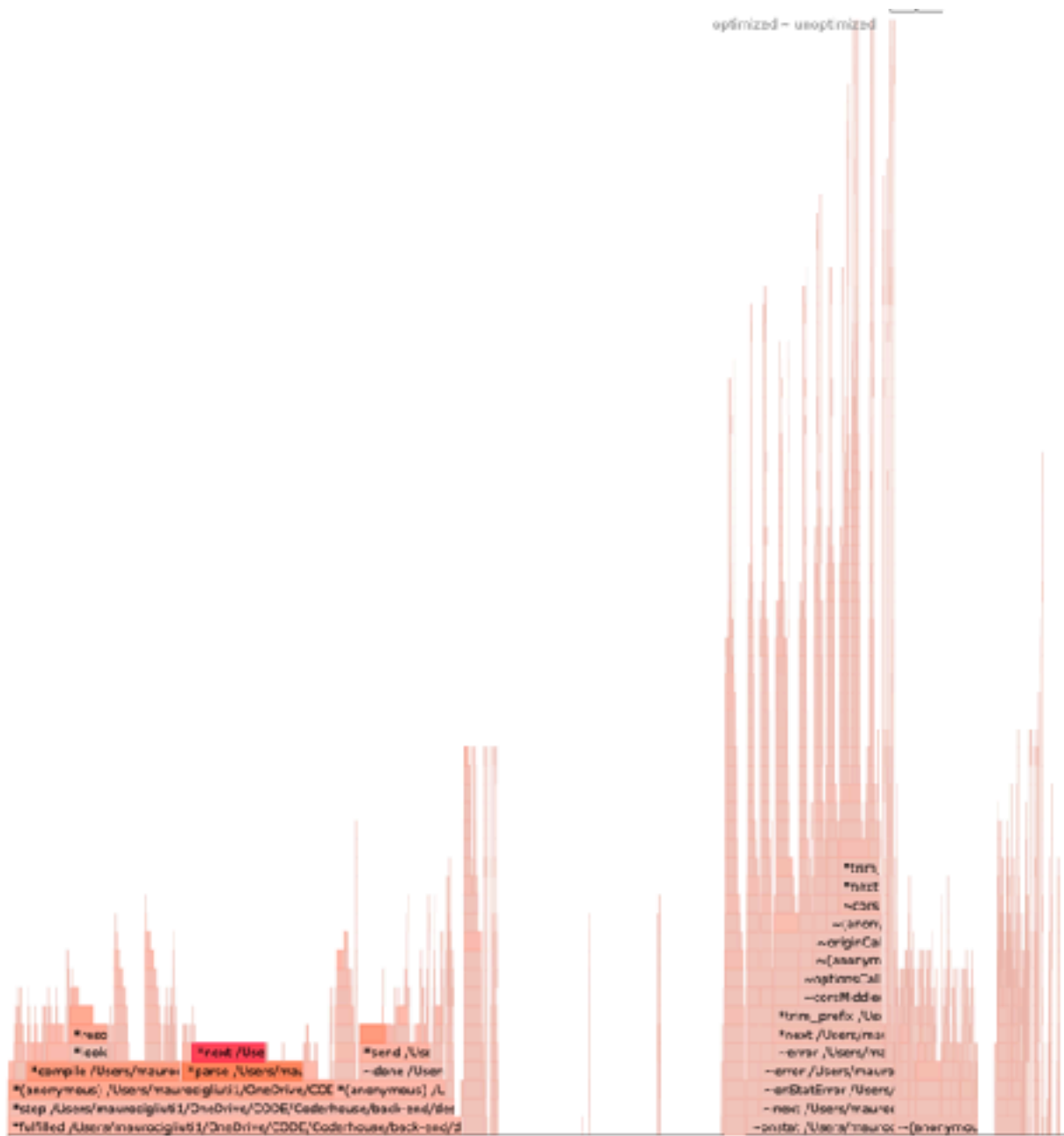
| Stat      | 1%     | 2.5%   | 50%    | 97.5%   | Avg    | Stdev   | Min    |
|-----------|--------|--------|--------|---------|--------|---------|--------|
| Req/Sec   | 487    | 487    | 801    | 882     | 779.85 | 81.93   | 487    |
| Bytes/Sec | 572 kB | 572 kB | 942 kB | 1.04 MB | 916 kB | 96.3 kB | 572 kB |

## Flamegraph

Sin console.log:



Con console.log



## Conclusión

Podemos concluir que en todos los test la versión sin el console.log es más performante en tiempos de respuesta del servidor por un margen considerable.