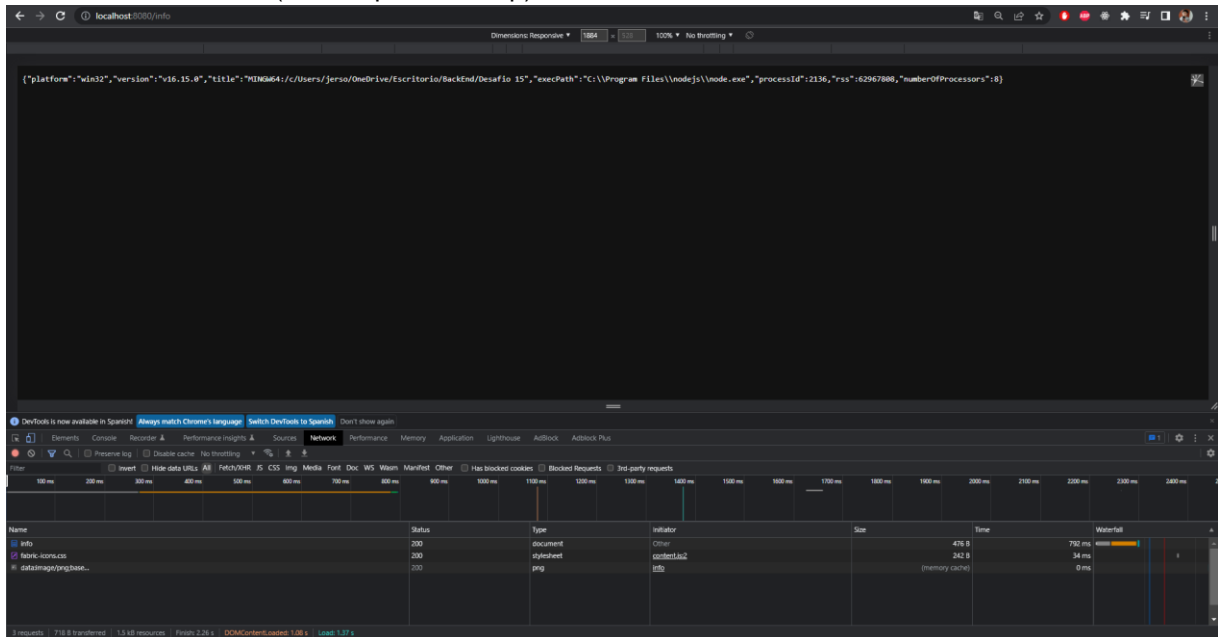
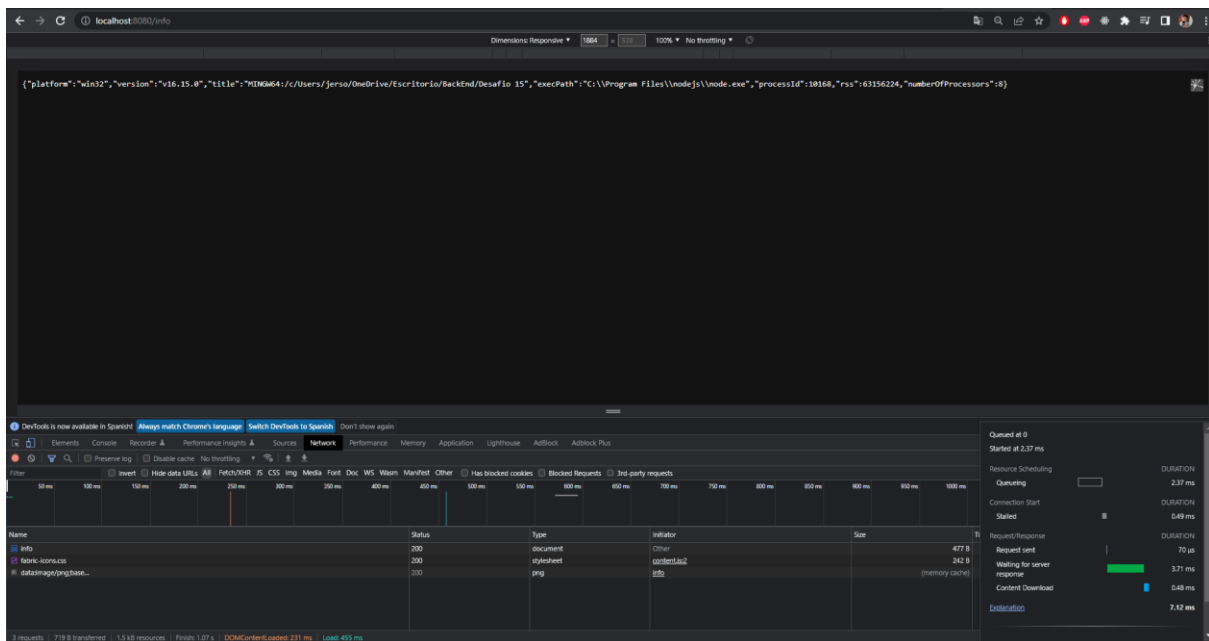


1- CONSIGNA: LOGGER Y GZIP

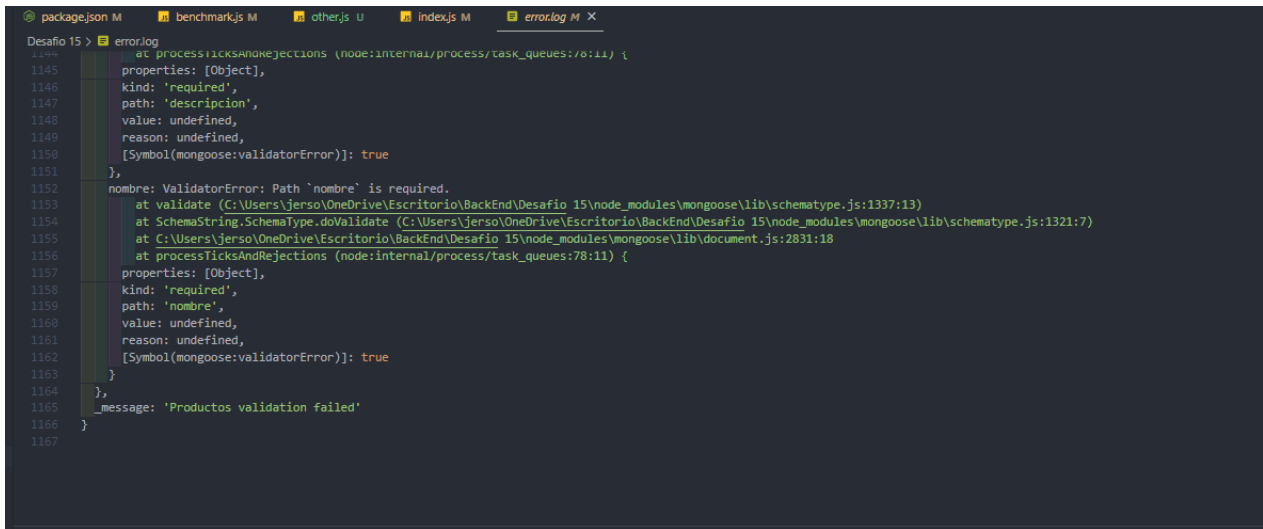
✦ Accediendo a info (sin compresión Gzip):



✦ Accediendo a info (con compresión Gzip):

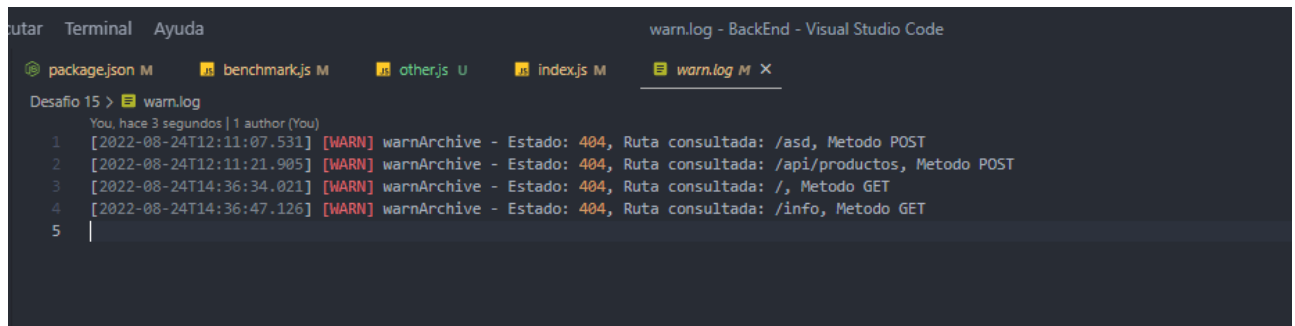


✦ Errores guardados en “error.log”:



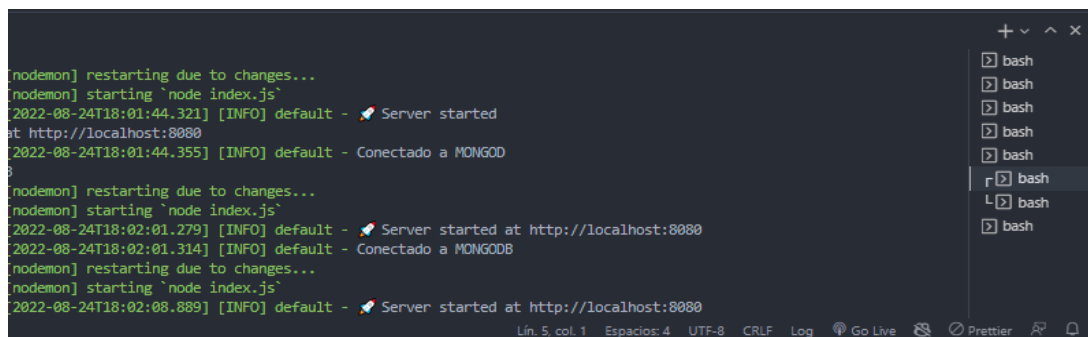
```
Desafio 15 > error.log
1144   at processTicksAndRejections (node:internal/process/task_queues:8:11) {
1145     properties: [Object],
1146     kind: 'required',
1147     path: 'description',
1148     value: undefined,
1149     reason: undefined,
1150     [Symbol(mongoose:validatorError)]: true
1151   },
1152   nombre: ValidatorError: Path `nombre` is required.
1153     at validate (C:\Users\jerso\OneDrive\Escritorio\BackEnd\Desafio 15\node_modules\mongoose\lib\schematype.js:1337:13)
1154     at SchemaString.SchemaType.doValidate (C:\Users\jerso\OneDrive\Escritorio\BackEnd\Desafio 15\node_modules\mongoose\lib\schematype.js:1321:7)
1155     at C:\Users\jerso\OneDrive\Escritorio\BackEnd\Desafio 15\node_modules\mongoose\lib\document.js:2831:18
1156     at processTicksAndRejections (node:internal/process/task_queues:78:11) {
1157     properties: [Object],
1158     kind: 'required',
1159     path: 'nombre',
1160     value: undefined,
1161     reason: undefined,
1162     [Symbol(mongoose:validatorError)]: true
1163   }
1164 },
1165 _message: 'Productos validation failed'
1166 }
1167 }
```

✦ Warn guardados en “warn.log”:



```
Desafio 15 > warn.log
You, hace 3 segundos | 1 autor (You)
1 [2022-08-24T12:11:07.531] [WARN] warnArchive - Estado: 404, Ruta consultada: /asd, Metodo POST
2 [2022-08-24T12:11:21.905] [WARN] warnArchive - Estado: 404, Ruta consultada: /api/productos, Metodo POST
3 [2022-08-24T14:36:34.021] [WARN] warnArchive - Estado: 404, Ruta consultada: /, Metodo GET
4 [2022-08-24T14:36:47.126] [WARN] warnArchive - Estado: 404, Ruta consultada: /info, Metodo GET
5 |
```

✦ Info por consola



```
[nodemon] restarting due to changes...
[nodemon] starting `node index.js`
2022-08-24T18:01:44.321 [INFO] default - Server started
at http://localhost:8080
2022-08-24T18:01:44.355 [INFO] default - Conectado a MONGODB
[nodemon] restarting due to changes...
[nodemon] starting `node index.js`
2022-08-24T18:02:01.279 [INFO] default - Server started at http://localhost:8080
2022-08-24T18:02:01.314 [INFO] default - Conectado a MONGODB
[nodemon] restarting due to changes...
[nodemon] starting `node index.js`
2022-08-24T18:02:08.889 [INFO] default - Server started at http://localhost:8080
```

2- CONSIGNA: ANÁLISIS COMPLETO DE PERFORMANCE

ANÁLISIS DE PERFORMANCE: ARTILLERY

other.js --> con console.log

✦ **Terminal 1:** node server.js

✦ **Terminal 2:** artillery quick --count 50 -n 20 "http://localhost:8080/info" > result_infoConConsoleLog.txt

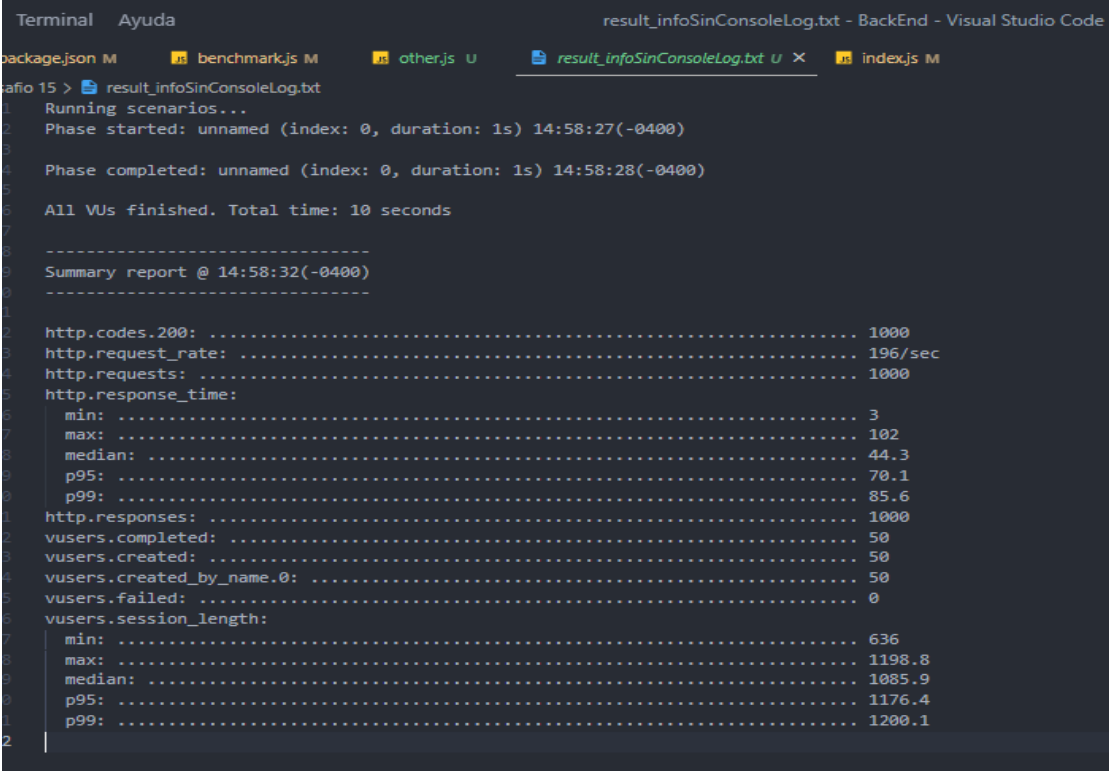
```
Desafio 15 > result_infoConsoleLog.txt
1 Running scenarios...
2 Phase started: unnamed (index: 0, duration: 1s) 14:49:10(-0400)
3
4 Phase completed: unnamed (index: 0, duration: 1s) 14:49:11(-0400)
5
6 All VUs finished. Total time: 10 seconds
7
8 -----
9 Summary report @ 14:49:15(-0400)
10 -----
11
12 http.codes.200: ..... 1000
13 http.request_rate: ..... 245/sec
14 http.requests: ..... 1000
15 http.response_time:
16   min: ..... 4
17   max: ..... 146
18   median: ..... 34.1
19   p95: ..... 94.6
20   p99: ..... 144
21 http.responses: ..... 1000
22 vusers.completed: ..... 50
23 vusers.created: ..... 50
24 vusers.created_by_name.0: ..... 50
25 vusers.failed: ..... 0
26 vusers.session_length:
27   min: ..... 577.7
28   max: ..... 1140.5
29   median: ..... 907
30   p95: ..... 1085.9
31   p99: ..... 1107.9
32
```

other.js --> con console.log

✦ **Terminal 1:** node server.js

✦

✦ **Terminal 2:** artillery quick --count 50 -n 20 "http://localhost:8080/info" > result_infoSinConsoleLog.txt



```
Terminal  Ayuda  result_infoSinConsoleLog.txt - BackEnd - Visual Studio Code
package.json M  benchmark.js M  other.js U  result_infoSinConsoleLog.txt U x  index.js M
afio 15 > result_infoSinConsoleLog.txt
1 Running scenarios...
2 Phase started: unnamed (index: 0, duration: 1s) 14:58:27(-0400)
3
4 Phase completed: unnamed (index: 0, duration: 1s) 14:58:28(-0400)
5
6 All VUs finished. Total time: 10 seconds
7
8 -----
9 Summary report @ 14:58:32(-0400)
10 -----
11
12 http.codes.200: ..... 1000
13 http.request_rate: ..... 196/sec
14 http.requests: ..... 1000
15 http.response_time:
16   min: ..... 3
17   max: ..... 102
18   median: ..... 44.3
19   p95: ..... 70.1
20   p99: ..... 85.6
21 http.responses: ..... 1000
22 vusers.completed: ..... 50
23 vusers.created: ..... 50
24 vusers.created_by_name.0: ..... 50
25 vusers.failed: ..... 0
26 vusers.session_length:
27   min: ..... 636
28   max: ..... 1198.8
29   median: ..... 1085.9
30   p95: ..... 1176.4
31   p99: ..... 1200.1
32
```

Analisis de performance : autocanon(benchmark)

other.js --> con console.log

- ✦ **Terminal 1:** node server.js
- ✦ **Terminal 2:** npm run test

```
jerso@LAPTOP-0EM2F1C4 MINGW64 ~/OneDrive/Escritorio/BackEnd/Desafio 15 (master)
$ npm run test

> desafio-15@1.0.0 test
> node benchmark.js

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

Stat	2.5%	50%	97.5%	99%	Avg	Stdev	Max
Latency	283 ms	390 ms	673 ms	747 ms	406.1 ms	93.4 ms	852 ms

Stat	1%	2.5%	50%	97.5%	Avg	Stdev	Min
Req/Sec	139	139	246	310	244.25	42.11	139
Bytes/Sec	66.3 kB	66.3 kB	117 kB	148 kB	117 kB	20.1 kB	66.3 kB

Req/Bytes counts sampled once per second.
of samples: 20
5k requests in 20.13s, 2.33 MB read

other.js --> sin console.log

- ✦ **Terminal 1:** node server.js
- ✦ **Terminal 2:** npm run test

```
jerso@LAPTOP-0EM2F1C4 MINGW64 ~/OneDrive/Escritorio/BackEnd/Desafio 15 (master)
$ npm run test

> desafio-15@1.0.0 test
> node benchmark.js

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

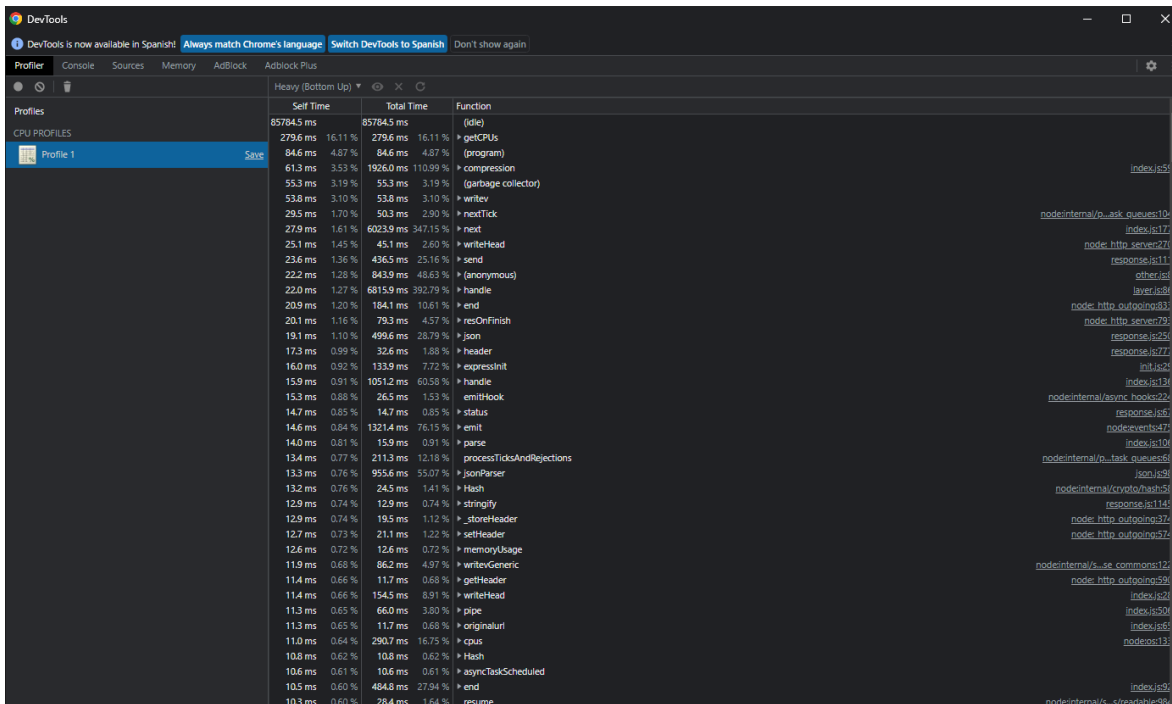
Stat	2.5%	50%	97.5%	99%	Avg	Stdev	Max
Latency	47 ms	55 ms	104 ms	120 ms	61.92 ms	21.49 ms	370 ms

Stat	1%	2.5%	50%	97.5%	Avg	Stdev	Min
Req/Sec	648	648	1719	1988	1601.8	340.86	648
Bytes/Sec	308 kB	308 kB	819 kB	947 kB	763 kB	163 kB	308 kB

Req/Bytes counts sampled once per second.
of samples: 20
32k requests in 20.09s, 15.3 MB read

ANÁLISIS DE PERFORMANCE: --INSPECTOR

- ✦ **Terminal 1:** node --inspect index.js
- ✦ **Acceder:** chrome://inspect
- ✦ **Terminal 2:** artillery quick --count 50 -n 20 "http://localhost:8080/info" > result_infoSinConsoleLog.txt



```
DevTools
DevTools is now available in Spanish! Always match Chrome's language Switch DevTools to Spanish Don't show again
Profiler Console Sources Memory AdBlock AdBlock Plus
Filesystem Snippets other.js x
+ Add folder to workspace
1 const express = require('express')
2 const router = express.Router()
3
4 const { fork } = require("child_process");
5 const os = require('os');
6
7
8 router.get('/info', (req, res) => {
9   const processInfo = {
10     platform: process.platform,
11     version: process.version,
12     title: process.title,
13     execPath: process.execPath,
14     processId: process.pid,
15     rss: process.memoryUsage().rss,
16     numberOfProcessors: os.cpus().length
17   };
18   //console.log(processInfo);
19   res.status(200).json(processInfo);
20 })
21
22 const randomNumbersGeneratorFork = fork('./utils/random.js')
23
24 router.get('/randoms', (req, res) => {
25   const cant = req.query.cant || 5000;
26   randomNumbersGeneratorFork.on('message', (resultado) => {
27     res.status(200).json(resultado);
28   })
29   randomNumbersGeneratorFork.send(cant);
30   console.log('Lista generada')
31 })
32
33
34 module.exports = router
35
36
Sync changes in DevTools with the local filesystem
Learn more about Workspaces
```

ANÁLISIS DE PERFORMANCE: OX

- ✦ **Terminal 1:** `0x index.js || npm start`
- ✦ **Terminal 2:** `npm run test`

```
jerso@LAPTOP-0EM2F1C4 MINGW64 ~/OneDrive/Escritorio/BackEnd/Desafio 15 (master)
$ npm run test
```

```
> desafio-15@1.0.0 test
> node benchmark.js
```

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

Stat	2.5%	50%	97.5%	99%	Avg	Stdev	Max
Latency	51 ms	69 ms	122 ms	141 ms	73.85 ms	19.55 ms	198 ms

Stat	1%	2.5%	50%	97.5%	Avg	Stdev	Min
Req/Sec	842	842	1340	1768	1344.4	273.52	842
Bytes/Sec	401 kB	401 kB	639 kB	844 kB	641 kB	131 kB	401 kB

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

```
27k requests in 20.09s, 12.8 MB read
```

127.0.0.1:5500/Desafio%2015/9016.Dx/flamegraph.html#{"merged":false,"nodeId":2464,"excludeTypes":["cpp","regex","v8","native","init"]}

node index.js

cold hot
* optimized ~ unoptimized

```
"end C:\Users\jero\OneDrive\Escritorio\BackEnd\Desafio 15\node_modules\express\lib\router\index.js:177:16 0.1% on stack, 0.01% stack top
"setWriteHead C:\Users\jero\OneDrive\Escritorio\BackEnd\Desafio 15\node_modules\express\lib\router\index.js:177:16 0.1% on stack, 0.01% stack top
"writeHead C:\Users\jero\OneDrive\Escritorio\BackEnd\Desafio 15\node_modules\express\lib\router\index.js:177:16 0.1% on stack, 0.01% stack top
"header C:\Users\jero\OneDrive\Escritorio\BackEnd\Desafio 15\node_modules\express\lib\router\index.js:177:16 0.1% on stack, 0.01% stack top
"dispatch C:\Users\jero\OneDrive\Escritorio\BackEnd\Desafio 15\node_modules\express\lib\router\index.js:177:16 0.1% on stack, 0.01% stack top
"handle C:\Users\jero\OneDrive\Escritorio\BackEnd\Desafio 15\node_modules\express\lib\router\index.js:177:16 0.1% on stack, 0.01% stack top
"next C:\Users\jero\OneDrive\Escritorio\BackEnd\Desafio 15\node_modules\express\lib\router\index.js:177:16 0.1% on stack, 0.01% stack top
"handle C:\Users\jero\OneDrive\Escritorio\BackEnd\Desafio 15\node_modules\express\lib\router\index.js:177:16 0.1% on stack, 0.01% stack top
"router C:\Users\jero\OneDrive\Escritorio\BackEnd\Desafio 15\node_modules\express\lib\router\index.js:177:16 0.1% on stack, 0.01% stack top
"trim_prefix C:\Users\jero\OneDrive\Escritorio\BackEnd\Desafio 15\node_modules\express\lib\router\index.js:177:16 0.1% on stack, 0.01% stack top
"next C:\Users\jero\OneDrive\Escritorio\BackEnd\Desafio 15\node_modules\express\lib\router\index.js:177:16 0.1% on stack, 0.01% stack top
"compression C:\Users\jero\OneDrive\Escritorio\BackEnd\Desafio 15\node_modules\express\lib\router\index.js:177:16 0.1% on stack, 0.01% stack top
"trim_prefix C:\Users\jero\OneDrive\Escritorio\BackEnd\Desafio 15\node_modules\express\lib\router\index.js:177:16 0.1% on stack, 0.01% stack top
"next C:\Users\jero\OneDrive\Escritorio\BackEnd\Desafio 15\node_modules\express\lib\router\index.js:177:16 0.1% on stack, 0.01% stack top
"urlencodedParser C:\Users\jero\OneDrive\Escritorio\BackEnd\Desafio 15\node_modules\express\lib\router\index.js:177:16 0.1% on stack, 0.01% stack top
"trim_prefix C:\Users\jero\OneDrive\Escritorio\BackEnd\Desafio 15\node_modules\express\lib\router\index.js:177:16 0.1% on stack, 0.01% stack top
"next C:\Users\jero\OneDrive\Escritorio\BackEnd\Desafio 15\node_modules\express\lib\router\index.js:177:16 0.1% on stack, 0.01% stack top
"jsonParser C:\Users\jero\OneDrive\Escritorio\BackEnd\Desafio 15\node_modules\express\lib\router\index.js:177:16 0.1% on stack, 0.01% stack top
"trim_prefix C:\Users\jero\OneDrive\Escritorio\BackEnd\Desafio 15\node_modules\express\lib\router\index.js:177:16 0.1% on stack, 0.01% stack top
"next C:\Users\jero\OneDrive\Escritorio\BackEnd\Desafio 15\node_modules\express\lib\router\index.js:177:16 0.1% on stack, 0.01% stack top
"compression C:\Users\jero\OneDrive\Escritorio\BackEnd\Desafio 15\node_modules\express\lib\router\index.js:177:16 0.1% on stack, 0.01% stack top
"trim_prefix C:\Users\jero\OneDrive\Escritorio\BackEnd\Desafio 15\node_modules\express\lib\router\index.js:177:16 0.1% on stack, 0.01% stack top
"next C:\Users\jero\OneDrive\Escritorio\BackEnd\Desafio 15\node_modules\express\lib\router\index.js:177:16 0.1% on stack, 0.01% stack top
"error C:\Users\jero\OneDrive\Escritorio\BackEnd\Desafio 15\node_modules\express\lib\router\index.js:177:16 0.1% on stack, 0.01% stack top
"onstat C:\Users\jero\OneDrive\Escritorio\BackEnd\Desafio 15\node_modules\express\lib\router\index.js:177:16 0.1% on stack, 0.01% stack top
```

all stacks

Tiers Merge Optimized Unoptimized
app deps core wasm minable native rx v8 cpp init

