Rutas **/info y /info-no**, la primera comprimida y la segunda no

```
processRouter.get('/info', compression(), (req, res) => {
    let datos = {
        'Argumentos de entrada': process.argv.slice(2),
        'Path de ejecucion': process.execPath,
        'Nombre de la plataforma': process.platform,
        'Process id': process.pid,
        'Version de node.js': process.version,
        'Carpeta del proyecto': process.cwd(),
        'Memoria total reservada (rss)': process.memoryUsage().rss,
    }           You, hace 1 hora • Entrega16 …
    res.json(datos)
})

processRouter.get('/info-no', (req, res) => {
    let datos = {
        'Argumentos de entrada': process.argv.slice(2),
        'Path de ejecucion': process.execPath,
        'Nombre de la plataforma': process.platform,
        'Process id': process.pid,
        'Version de node.js': process.version,
        'Carpeta del proyecto': process.cwd(),
        'Memoria total reservada (rss)': process.memoryUsage().rss,
    }
    res.json(datos)
```

Resultados: /info

```
1    // 20221114202503
2    // http://localhost:8080/info
3
4  ▾ {
5  ▾   "Argumentos de entrada": [
6
7    ],
8    "Path de ejecucion": "C:\\Program Files\\nodejs\\node.exe",
9    "Nombre de la plataforma": "win32",
10   "Process id": 122812,
11   "Version de node.js": "v16.13.0",
12   "Carpeta del proyecto": "C:\\Users\\Leandro Mesa\\Desktop\\CoderHouse Curso Backend\\Entrega16",
13   "Memoria total reservada (rss)": 84381696
14   }
```

Name	Status	Type	Initiator	Size	Time	Waterfall
js.js	200	script	content.js:32	1.4 kB	4 ms	

1 requests   **1.4 kB transferred**   1.4 kB resources

Resultados: /info-no:

```
1    // 20221114202451
2    // http://localhost:8080/info-no
3
4  ▾ {
5  ▾    "Argumentos de entrada": [
6
7      ],
8      "Path de ejecucion": "C:\\Program Files\\nodejs\\node.exe",
9      "Nombre de la plataforma": "win32",
10     "Process id": 122812,
11     "Version de node.js": "v16.13.0",
12     "Carpeta del proyecto": "C:\\Users\\Leandro Mesa\\Desktop\\CoderHouse Curso Backend\\Entrega16",
13     "Memoria total reservada (rss)": 84369408
14   }
```
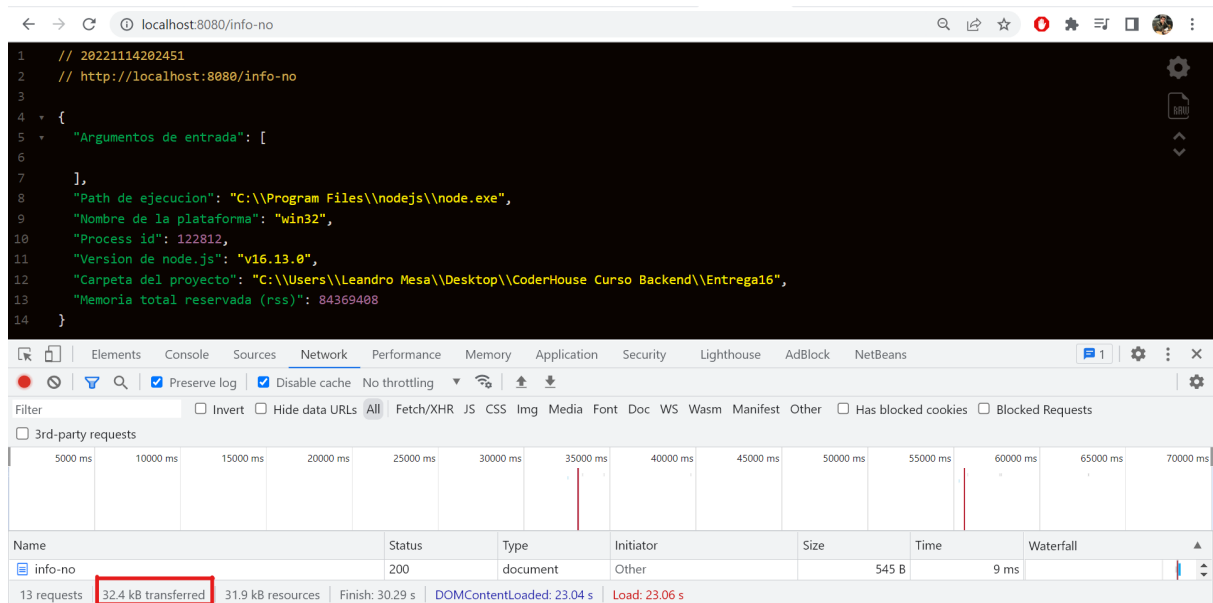
13 requests   **32.4 kB transferred**   31.9 kB resources   Finish: 30.29 s   DOMContentLoaded: 23.04 s   Load: 23.06 s

Logger

```javascript
import log4js from 'log4js'

log4js.configure({
    appenders: {
        console: {type: 'console'},
        warnLog: {type: 'file', filename: './logs/warn.log'},
        errorLog: {type: 'file', filename: './logs/error.log'},

        loggerConsole: {type: 'logLevelFilter', appender: 'console', level: 'info'},
        loggerWarnings: {type: 'logLevelFilter', appender: 'warnLog', level: 'warn'},
        loggerError: {type: 'logLevelFilter', appender: 'errorLog', level: 'error'}
    },
    categories: {
        default: {
            appenders: ['loggerConsole', 'loggerWarnings', 'loggerError'],
            level: 'all'
        }
    }
})

let logger = log4js.getLogger()

const NoImplementada = (req) => {
    logger.warn(`Ruta ${req.url} con metodo ${req.method} no implementada`)
}

const Ruta = (req) => {
    logger.info(`Ruta ${req.url} con metodo ${req.method} accedida`)
}


export {logger, Ruta, NoImplementada}
```
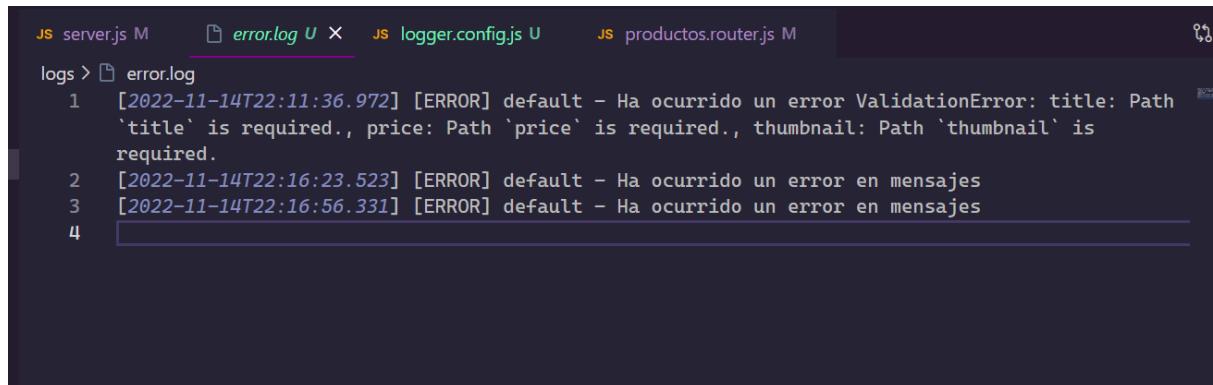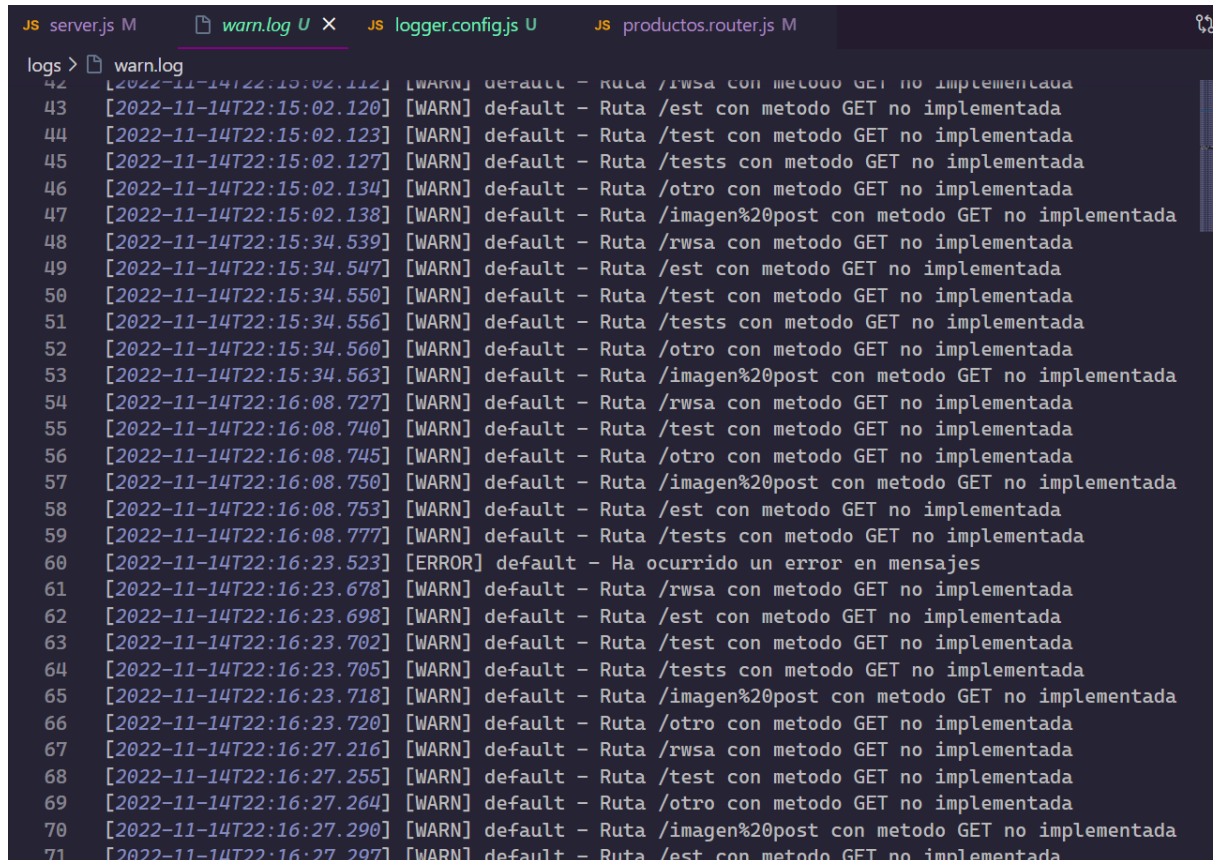
Ruta no implementa con su logger:

```
app.get('*', (req, res) ⇒ {
    let ruta = req.url
    // logger.warn(`Ruta ${ruta} con metodo ${req.method} no implementada`)
    NoImplementada(req)
    res.send('ruta no implementada')
})
```

error.log (para productos y mensajes, se prueba en este caso cuando los campos quedan vacios.)

```
JS server.js M        📄 error.log U ✕    JS logger.config.js U    JS productos.router.js M                              ⑂
logs > 📄 error.log
    1    [2022-11-14T22:11:36.972] [ERROR] default - Ha ocurrido un error ValidationError: title: Path
         `title` is required., price: Path `price` is required., thumbnail: Path `thumbnail` is
         required.
    2    [2022-11-14T22:16:23.523] [ERROR] default - Ha ocurrido un error en mensajes
    3    [2022-11-14T22:16:56.331] [ERROR] default - Ha ocurrido un error en mensajes
    4
```

warn.log (hay varios porque estoy usando imagenes que no tengo definidas)

```
JS server.js M        📄 warn.log U ✕    JS logger.config.js U    JS productos.router.js M                               ⑂
logs > 📄 warn.log
   42    [2022-11-14T22:15:02.112] [WARN] default - Ruta /rwsa con metodo GET no implementada
   43    [2022-11-14T22:15:02.120] [WARN] default - Ruta /est con metodo GET no implementada
   44    [2022-11-14T22:15:02.123] [WARN] default - Ruta /test con metodo GET no implementada
   45    [2022-11-14T22:15:02.127] [WARN] default - Ruta /tests con metodo GET no implementada
   46    [2022-11-14T22:15:02.134] [WARN] default - Ruta /otro con metodo GET no implementada
   47    [2022-11-14T22:15:02.138] [WARN] default - Ruta /imagen%20post con metodo GET no implementada
   48    [2022-11-14T22:15:34.539] [WARN] default - Ruta /rwsa con metodo GET no implementada
   49    [2022-11-14T22:15:34.547] [WARN] default - Ruta /est con metodo GET no implementada
   50    [2022-11-14T22:15:34.550] [WARN] default - Ruta /test con metodo GET no implementada
   51    [2022-11-14T22:15:34.556] [WARN] default - Ruta /tests con metodo GET no implementada
   52    [2022-11-14T22:15:34.560] [WARN] default - Ruta /otro con metodo GET no implementada
   53    [2022-11-14T22:15:34.563] [WARN] default - Ruta /imagen%20post con metodo GET no implementada
   54    [2022-11-14T22:16:08.727] [WARN] default - Ruta /rwsa con metodo GET no implementada
   55    [2022-11-14T22:16:08.740] [WARN] default - Ruta /test con metodo GET no implementada
   56    [2022-11-14T22:16:08.745] [WARN] default - Ruta /otro con metodo GET no implementada
   57    [2022-11-14T22:16:08.750] [WARN] default - Ruta /imagen%20post con metodo GET no implementada
   58    [2022-11-14T22:16:08.753] [WARN] default - Ruta /est con metodo GET no implementada
   59    [2022-11-14T22:16:08.777] [WARN] default - Ruta /tests con metodo GET no implementada
   60    [2022-11-14T22:16:23.523] [ERROR] default - Ha ocurrido un error en mensajes
   61    [2022-11-14T22:16:23.678] [WARN] default - Ruta /rwsa con metodo GET no implementada
   62    [2022-11-14T22:16:23.698] [WARN] default - Ruta /est con metodo GET no implementada
   63    [2022-11-14T22:16:23.702] [WARN] default - Ruta /test con metodo GET no implementada
   64    [2022-11-14T22:16:23.705] [WARN] default - Ruta /tests con metodo GET no implementada
   65    [2022-11-14T22:16:23.718] [WARN] default - Ruta /imagen%20post con metodo GET no implementada
   66    [2022-11-14T22:16:23.720] [WARN] default - Ruta /otro con metodo GET no implementada
   67    [2022-11-14T22:16:27.216] [WARN] default - Ruta /rwsa con metodo GET no implementada
   68    [2022-11-14T22:16:27.255] [WARN] default - Ruta /test con metodo GET no implementada
   69    [2022-11-14T22:16:27.264] [WARN] default - Ruta /otro con metodo GET no implementada
   70    [2022-11-14T22:16:27.290] [WARN] default - Ruta /imagen%20post con metodo GET no implementada
   71    [2022-11-14T22:16:27.297] [WARN] default - Ruta /est con metodo GET no implementada
```

ARTILLERY, PROF Y PROF-PROCESS

node --prof .\server.js

[2022-11-14T22:26:13.958] [INFO] default - Runing in port 8080 95584
Un nuevo cliente se conecto IDE6-IqAW1u5yuBKAAAB

artillery quick --count 20 -n 50 "http://localhost:8080/info" > result_info.txt

result_info.txt:

```
ult_info.txt
 Phase started: unnamed (index: 0, duration: 1s) 22:28:57(-0300)

 Phase completed: unnamed (index: 0, duration: 1s) 22:28:58(-0300)

 All VUs finished. Total time: 10 seconds


 ──────────────────────────────
 Summary report @ 22:29:04(-0300)
 ──────────────────────────────


 http.codes.200: ...................................................... 1000
 http.request_rate: ................................................... 356/sec
 http.requests: ....................................................... 1000
 http.response_time:
   min: ............................................................... 0
   max: ............................................................... 38
   median: ............................................................ 7.9
   p95: ............................................................... 25.8
   p99: ............................................................... 32.1
 http.responses: ...................................................... 1000
 vusers.completed: .................................................... 20
 vusers.created: ...................................................... 20
 vusers.created_by_name.0: ............................................ 20
 vusers.failed: ....................................................... 0
 vusers.session_length:
   min: ............................................................... 401.3
   max: ............................................................... 668.5
   median: ............................................................ 596
   p95: ............................................................... 658.6
   p99: ............................................................... 658.6
```

**node --prof-process .\isolate-00000122770922C0-33624-v8.log >
process_result_info.txt**

process_result_info.txt:

```
process_result_info.txt
  1    Statistical profiling result from .\isolate-00000167C05A18B0-95584-v8.log, (25796 ticks, 0 unaccounted, 0 exclud
  2
  3    [Shared libraries]:
  4     ticks  total  nonlib   name
  5    25424  98.6%           C:\WINDOWS\SYSTEM32\ntdll.dll
  6      361   1.4%           C:\Program Files\nodejs\node.exe
  7        1   0.0%           C:\WINDOWS\System32\KERNELBASE.dll
  8
  9    [JavaScript]:
 10     ticks  total  nonlib   name
 11        2   0.0%   20.0%  LazyCompile: *resolve node:path:158:10
 12        1   0.0%   10.0%  RegExp: ^\s*([^;\s]*)(?:;|\s|$)
 13        1   0.0%   10.0%  RegExp: ^[!#$%&'*+.^_`|~0-9A-Za-z-]+\/[!#$%&'*+.^_`|~0-9A-Za-z-]+$
 14        1   0.0%   10.0%  LazyCompile: *toNamespacedPath node:path:618:19
 15        1   0.0%   10.0%  LazyCompile: *pushAsyncContext node:internal/async_hooks:529:26
 16        1   0.0%   10.0%  Function: ^tryStatSync node:fs:404:21
 17        1   0.0%   10.0%  Function: ^resume_ node:internal/streams/readable:985:17
 18        1   0.0%   10.0%  Function: ^resOnFinish node:_http_server:788:21
 19        1   0.0%   10.0%  Function: ^getMessage node:internal/errors:410:20
 20
 21    [C++]:
 22     ticks  total  nonlib   name
 23
 24    [Summary]:
 25     ticks  total  nonlib   name
 26       10   0.0%  100.0%  JavaScript
 27        0   0.0%    0.0%  C++
 28       17   0.1%  170.0%  GC
 29    25786 100.0%          Shared libraries
 30
 31    [C++ entry points]:
 32     ticks    cpp   total   name
 33
```

AUTOCANNON y 0X

```json
package.json > </> dependencies
You, hace 2 minutos | 1 author (You)
  1  {
  2    "type": "module",
  3    "name": "practicacookiessessions",
  4    "version": "1.0.0",
  5    "description": "",
  6    "main": "server.js",
     ▷ Debug
  7    "scripts": {
  8      "dev": "nodemon server.js"
  9      "test": "node benchmark.js",
 10      "start": "0x server.js"
 11    },
 12    "keywords": [],
 13    "author": "",
```

```js
JS benchmark.js > ...
  1  ∨ import autocannon from 'autocannon';
  2    import { PassThrough } from 'stream';
  3
● 4  ∨ function run(url) {
  5      const buf = []
  6      const outputStream = new PassThrough()
  7
  8  ∨   const inst = autocannon({
  9        url,
 10        connections: 100,
 11        duration: 20
 12      })
 13
 14      autocannon.track(inst, { outputStream })
 15
 16      outputStream.on('data', data ⇒ buf.push(data))
 17  ∨   inst.on('done', () ⇒ {
 18        process.stdout.write(Buffer.concat(buf))
 19      })
 20    }
 21
 22    console.log('Running all benchmarks in parallel ... ')
 23
 24    run('http://localhost:8080/info')
 25
 26
```

npm start

Profiling[2022-11-14T22:50:45.086] [INFO] default - Runing in port 8080 69016
Un nuevo cliente se conecto p1hUadWDeGd2P_uvAAAB

npm test

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


┌─────────┬────────┬────────┬────────┬────────┬──────────┬──────────┬────────┐
│ Stat    │ 2.5%   │ 50%    │ 97.5%  │ 99%    │ Avg      │ Stdev    │ Max    │
├─────────┼────────┼────────┼────────┼────────┼──────────┼──────────┼────────┤
│ Latency │ 18 ms  │ 39 ms  │ 98 ms  │ 109 ms │ 43.05 ms │ 20.83 ms │ 169 ms │
└─────────┴────────┴────────┴────────┴────────┴──────────┴──────────┴────────┘

┌───────────┬────────┬────────┬─────────┬─────────┬────────┬─────────┬────────┐
│ Stat      │ 1%     │ 2.5%   │ 50%     │ 97.5%   │ Avg    │ Stdev   │ Min    │
├───────────┼────────┼────────┼─────────┼─────────┼────────┼─────────┼────────┤
│ Req/Sec   │ 1207   │ 1207   │ 2367    │ 2783    │ 2297   │ 463.32  │ 1207   │
├───────────┼────────┼────────┼─────────┼─────────┼────────┼─────────┼────────┤
│ Bytes/Sec │ 686 kB │ 686 kB │ 1.34 MB │ 1.58 MB │ 1.3 MB │ 263 kB  │ 686 kB │
└───────────┴────────┴────────┴─────────┴─────────┴────────┴─────────┴────────┘

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

46k requests in 20.08s, 26.1 MB read
```

Al bajar el servidor: Flamegraph generated in file://C:\Users\Leandro
Mesa\Desktop\CoderHouse Curso Backend\Entrega16\69016.0x\flamegraph.html
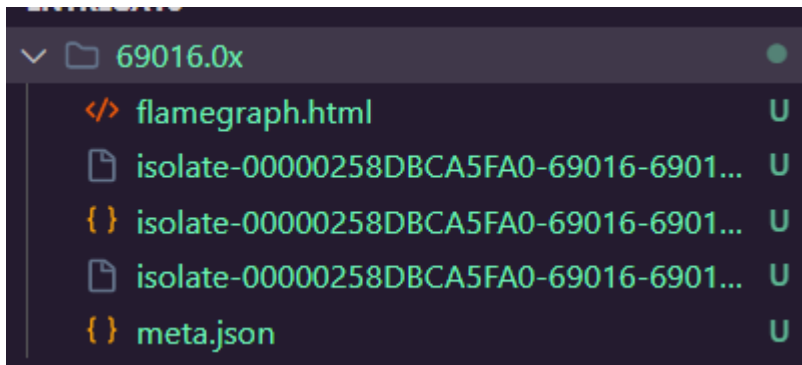
Se puede concluir que es un proceso no bloqueante, esto porque mantiene el color en toda la gráfica y por estar muy angosta.