# Análisis de rendimiento

### Código

- Con console.log()

```
logger.info(`${req.method} request from ${req.originalUrl} route`)
console.log({
    entryArgs : JSON.stringify(args),
    platform: process.platform,
   nodeVersion: process.version,
   memory: process.memoryUsage().rss,
    path: process.execPath,
    processId: process.pid,
    dir: process.cwd()
res.render('info', {
   entryArgs : JSON.stringify(args),
   platform: process.platform,
   nodeVersion: process.version,
   memory: process.memoryUsage().rss,
   path: process.execPath,
   processId: process.pid,
   dir: process.cwd()
```

- Sin console.log()

```
const getInfo = (req, res)=>{
    logger.info(`${req.method} request from ${req.originalUrl} route`)
    // console.log({
        // entryArgs : JSON.stringify(args),
        // platform: process.platform,
        // nodeVersion: process.version,
        // memory: process.memoryUsage().rss,
        // path: process.execPath,
        // processId: process.pid,
        // dir: process.cwd()
        // })
    res.render('info', {
        entryArgs : JSON.stringify(args),
        platform: process.platform,
        nodeVersion: process.version,
        memory: process.memoryUsage().rss,
        path: process.execPath,
        processId: process.pid,
        dir: process.cwd()
    })
}
```

### Gzip.

- Sin compression



podemos observar que sin compression el documento pesa 1.5 kB

Con compression



#### Resultado de Artillery.

Con console.log().

```
Summary report @ 18:24:41(-0300)
http.codes.200:
http.request_rate: ...... 965/sec
http.response_time:
median: ..... 8.9
p95: ..... 21.1
p99: .... 37
vusers.created_by_name.0: ..... 50
vusers.failed: ..... 0
vusers.session_length:
```

```
Summary report @ 18:33:21(-0300)
http.request_rate: ..... 1000/sec
http.requests: ...... 1000
http.response_time:
min: ...... 0
median: ..... 4
vusers.completed: ..... 50
vusers.session_length:
min: ...... 22.6
```

#### - - prof

- Con console.log()

```
[Summary]:
 ticks
       total
             nonlib
                      name
    7
       0.7%
               0.8% JavaScript
  859 91.7% 97.7% C++
       1.7%
               1.8% GC
   16
       6.2%
   58
                     Shared libraries
   13
        1.4%
                     Unaccounted
```

```
[Summary]:
 ticks
              nonlib
        total
                      name
        1.1%
                1.2% JavaScript
   11
  902 92.7% 98.3% C++
       1.5%
   15
              1.6% GC
   55
        5.7%
                      Shared libraries
                      Unaccounted
    5
        0.5%
```

#### Informe con - - inspect

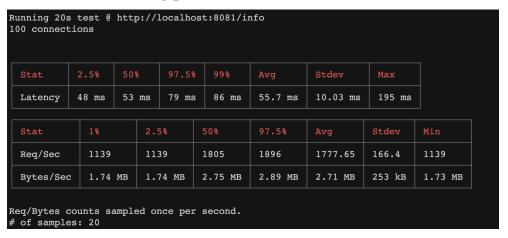
Con console.log()

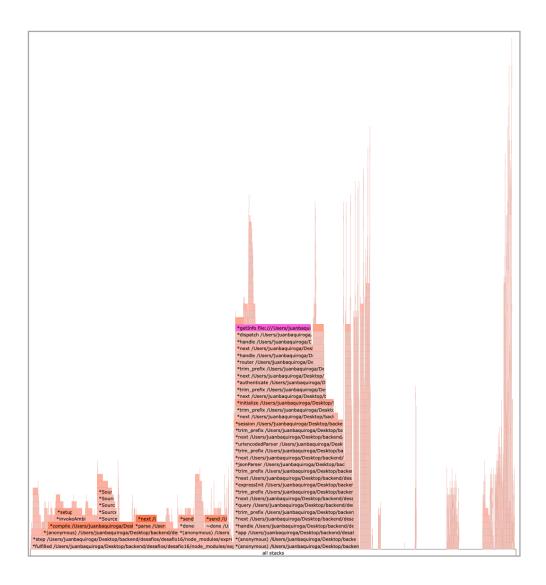
```
const getInfo = (req, res) => {
 3.6 ms
            const cpus = os.cpus();
            //res.setHeader('Content-Type', 'application/json');
 9.0 ms
            console.log({
0.5 ms
                 "Input Args": args.port,
 1.6 ms
                 "Operating System": process.platform,
                 "Node Version": process.version,
 0.7 ms
 1.2 ms
                 "Memory Usage": process.memoryUsage().rss,
                 "ExecPath": process.execPath,
 0.4 ms
 0.2 ms
                 "Process ID (PID)": process.pid,
 0.5 ms
                 "Actual Folder ": process.cwd(),
                 "Total Cores ": cpus.length,
            })
            res.end(JSON.stringify({
0.6 ms
                 "Input Args": args.port,
 2.1 ms
                 "Operating System": process.platform,
 0.5 ms
                 "Node Version": process.version,
                 "Memory Usage": process.memoryUsage().rss,
 0.7 ms
 0.5 ms
                 "ExecPath": process.execPath,
                 "Process ID (PID)": process.pid,
 0.5 ms
                "Actual Folder ": process.cwd(),
"Total Cores ": cpus.length,
 0.5 ms
 0.1 ms
            }, null, 2))
```

```
const getInfo = (req, res) => {
            const cpus = os.cpus();
 3.1 ms
            //res.setHeader('Content-Type', 'application/json');
                   console.log({
                    "Input Args": args.port,
                    "Operating System": process.platform,
                    "Node Version": process.version,
                    "Memory Usage": process.memoryUsage().rss,
                    "ExecPath": process.execPath,
                    "Process ID (PID)": process.pid,
                    "Actual Folder ": process.cwd(),
                    "Total Cores ": cpus.length,
                }) */
17.6 ms
            res.end(JSON.stringify({
0.2 ms
                "Input Args": args.port,
                "Operating System": process.platform,
 0.7 ms
                "Node Version": process.version,
 0.1 ms
 0.6 ms
                "Memory Usage": process.memoryUsage().rss,
                "ExecPath": process.execPath,
                "Process ID (PID)": process.pid,
 0.1 ms
                "Actual Folder ": process.cwd(),
 0.5 ms
                "Total Cores ": cpus.length,
            }, null, 2))
```

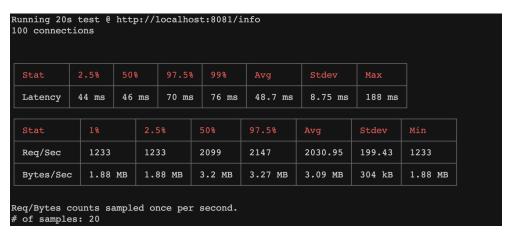
# Flame Graph 0x con Autocannon

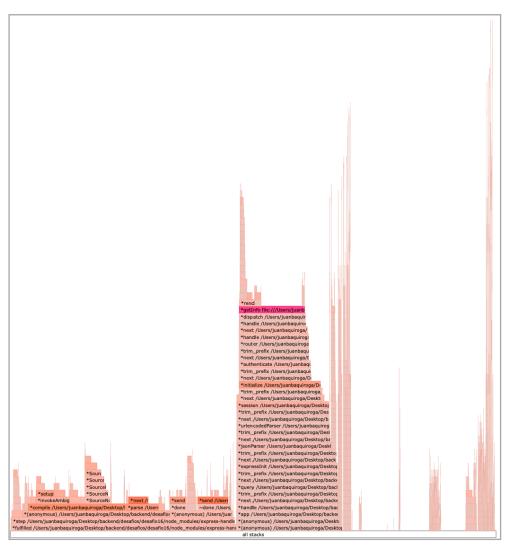
- Con console.log()





# Flame Graph 0x con Autocannon





## **Conclusion personal**

Mi conclusión es que el uso excesivo de console.log puede tener un impacto significativo en la eficiencia y la velocidad de una aplicación en entornos de producción. Recomendaría evitar su uso en producción y limitar su uso para fines de desarrollo y pruebas. En lugar de console.log, se deben utilizar herramientas de registro y seguimiento de errores dedicadas para recopilar información de depuración y diagnóstico en tiempo real. De esta manera, se puede garantizar una mejor eficiencia y velocidad en la aplicación en entornos de producción.