

Info sin compresión de gzip:

Name	Method	Status	Type	Initiator	Size	Time	Content-Encoding	Waterfall
info	GET	200	document	Other	1.7 kB	32 ms		
1Ptug8zYS_SKggPNyCOITw.woff2	GET	200	font	css2?family=Raleway&ital,wght@0,100;0,200;0,300;0,...;0,900;1,200;1,300;...	(disk cache)	2 ms		
css2?family=Raleway&ital,wght@0,100;0,200;0,300;0,...;0,900;1,200;1,300;...	GET	200	stylesheet	style.css	(disk cache)	2 ms	gzip	
style.css	GET	304	stylesheet	info	266 B	9 ms		

Info con compresión de gzip: reducción de aproximadamente el 50% de peso, mejora la disponibilidad del ancho de banda del servidor.

Name	Method	Status	Type	Initiator	Size	Time	Content-Encoding	Waterfall
infozip	GET	200	document	Other	919 B	794 ms	gzip	
1Ptug8zYS_SKggPNyCOITw.woff2	GET	200	font	css2?family=Raleway&ital,wght@0,100;0,200;0,300;0,...;0,900;1,200;1,300;...	(disk cache)	2 ms		
css2?family=Raleway&ital,wght@0,100;0,200;0,300;0,...;0,900;1,200;1,300;...	GET	200	stylesheet	style.css:-Infinity	Served from disk cache, resource size: 47.3 kB		gzip	
style.css	GET	304	stylesheet	infozip:1	266 B	17 ms		

GET a la ruta info sin console.log

```

http.codes.200: ..... 800
http.request_rate: ..... 80/sec
http.requests: ..... 800
http.response_time:
  min: ..... 15
  max: ..... 231
  median: ..... 106.7
  p95: ..... 156
  p99: ..... 179.5
http.responses: ..... 800
vusers.completed: ..... 20
vusers.created: ..... 20
vusers.created_by_name.0: ..... 20
vusers.failed: ..... 0
vusers.session_length:
  min: ..... 4112.9
  max: ..... 4590
  median: ..... 4403.8
  p95: ..... 4583.6
  p99: ..... 4583.6

```

GET a la ruta info con console.log: Aumento del tiempo, p99 o percentil 99, debido al tiempo necesario para direccionar el contenido de la variable info a la salida de consola.

```
http.codes.200: ..... 800
http.request_rate: ..... 52/sec
http.requests: ..... 800
http.response_time:
  min: ..... 22
  max: ..... 296
  median: ..... 172.5
  p95: ..... 223.7
  p99: ..... 252.2
http.responses: ..... 800
vusers.completed: ..... 20
vusers.created: ..... 20
vusers.created_by_name.0: ..... 20
vusers.failed: ..... 0
vusers.session_length:
  min: ..... 6759.5
  max: ..... 7132.6
  median: ..... 6976.1
  p95: ..... 7117
  p99: ..... 7117
```

Profiler sin console.log

[Shared libraries]:

ticks	total	nonlib	name
1655	76.2%		C:\Windows\SYSTEM32\ntdll.dll
464	21.4%		C:\Program Files\nodejs\node.exe
1	0.0%		C:\Windows\System32\KERNEL32.DLL

[JavaScript]:

ticks	total	nonlib	name
6	0.3%	11.5%	LazyCompile: *resolve node:path:158:10
2	0.1%	3.8%	LazyCompile: *walkAST C:\Users\sarav\Downloads\BackendCH\BackendJS\node_modules\pug-walk\index.js:4:17
2	0.1%	3.8%	LazyCompile: *readString C:\Users\sarav\Downloads\BackendCH\BackendJS\node_modules\@babel\parser\lib\index.js:3019:13
2	0.1%	3.8%	LazyCompile: *getTokenFromCode C:\Users\sarav\Downloads\BackendCH\BackendJS\node_modules\@babel\parser\lib\index.js:2495:19
1	0.0%	1.9%	RegExp: ^mixin +([-\w]+)(?: *((.*)\))? *
1	0.0%	1.9%	RegExp: ^\n[\t]*\n
1	0.0%	1.9%	RegExp: ["<"]
1	0.0%	1.9%	LazyCompile: *when C:\Users\sarav\Downloads\BackendCH\BackendJS\node_modules\pug-lexer\index.js:873:17
1	0.0%	1.9%	LazyCompile: *visitBlock C:\Users\sarav\Downloads\BackendCH\BackendJS\node_modules\pug-code-gen\index.js:420:23
1	0.0%	1.9%	LazyCompile: *visit C:\Users\sarav\Downloads\BackendCH\BackendJS\node_modules\pug-code-gen\index.js:292:18
1	0.0%	1.9%	LazyCompile: *toConstant C:\Users\sarav\Downloads\BackendCH\BackendJS\node_modules\constantinople\lib\index.js:9:24
1	0.0%	1.9%	LazyCompile: *tag C:\Users\sarav\Downloads\BackendCH\BackendJS\node_modules\pug-lexer\index.js:391:16
1	0.0%	1.9%	LazyCompile: *skipSpace C:\Users\sarav\Downloads\BackendCH\BackendJS\node_modules\@babel\parser\lib\index.js:2080:12
1	0.0%	1.9%	LazyCompile: *shallowEqual C:\Users\sarav\Downloads\BackendCH\BackendJS\node_modules\constantinople\lib\index.js:247:22

[C++]:

ticks	total	nonlib	name
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[Summary]:

ticks	total	nonlib	name
47	2.2%	90.4%	JavaScript
0	0.0%	0.0%	C++
26	1.2%	50.0%	GC
2120	97.6%		Shared libraries
5	0.2%		Unaccounted

Profiler con console.log

[Shared libraries]:

ticks	total	nonlib	name
1849	73.8%		C:\Windows\SYSTEM32\ntdll.dll
585	23.3%		C:\Program Files\nodejs\node.exe
3	0.1%		C:\Windows\System32\KERNELBASE.dll
2	0.1%		C:\Windows\System32\KERNEL32.DLL

[JavaScript]:

ticks	total	nonlib	name
4	0.2%	6.0%	LazyCompile: *resolve node:path:158:10
3	0.1%	4.5%	LazyCompile: *recurse C:\Users\sarav\Downloads\BackendCH\BackendJS\node_modules\babel-walk\lib\index.js:73:26
3	0.1%	4.5%	LazyCompile: *readString C:\Users\sarav\Downloads\BackendCH\BackendJS\node_modules\@babel\parser\lib\index.js:3019:13
3	0.1%	4.5%	LazyCompile: *parseChar C:\Users\sarav\Downloads\BackendCH\BackendJS\node_modules\character-parser\index.js:76:19
2	0.1%	3.0%	LazyCompile: *next C:\Users\sarav\Downloads\BackendCH\BackendJS\node_modules\express\lib\router\index.js:176:16
2	0.1%	3.0%	LazyCompile: *getTokenFromCode C:\Users\sarav\Downloads\BackendCH\BackendJS\node_modules\@babel\parser\lib\index.js:2495:19
2	0.1%	3.0%	LazyCompile: *callLexerFunction C:\Users\sarav\Downloads\BackendCH\BackendJS\node_modules\pug-lexer\index.js:1635:30
2	0.1%	3.0%	LazyCompile: *addExtra C:\Users\sarav\Downloads\BackendCH\BackendJS\node_modules\@babel\parser\lib\index.js:3922:11
1	0.0%	1.5%	LazyCompile: *yield C:\Users\sarav\Downloads\BackendCH\BackendJS\node_modules\pug-lexer\index.js:806:18
1	0.0%	1.5%	LazyCompile: *walkAST C:\Users\sarav\Downloads\BackendCH\BackendJS\node_modules\pug-walk\index.js:4:17
1	0.0%	1.5%	LazyCompile: *visitBlock C:\Users\sarav\Downloads\BackendCH\BackendJS\node_modules\pug-code-gen\index.js:420:23
1	0.0%	1.5%	LazyCompile: *startNode C:\Users\sarav\Downloads\BackendCH\BackendJS\node_modules\@babel\parser\lib\index.js:4278:12
1	0.0%	1.5%	LazyCompile: *skipSpace C:\Users\sarav\Downloads\BackendCH\BackendJS\node_modules\@babel\parser\lib\index.js:2080:12

[C++]:

ticks	total	nonlib	name
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[Summary]:

ticks	total	nonlib	name
64	2.6%	95.5%	JavaScript
0	0.0%	0.0%	C++
35	1.4%	52.2%	GC
2439	97.3%		Shared libraries
3	0.1%		Unaccounted

Inspect: El proceso de mayor peso es justamente es el controller que atiende el request de la ruta solicitada en los test.

Profiler	Console	Sources	Memory	Redux	EditThisCookie
Heavy (Bottom Up) 🔍 ✕ ↺					
Profiles	Self Time	Total Time	Function		
CPU PROFILES	25312.1 ms	25312.1 ms	(idle)		
	2298.4 ms 20.46 %	2298.4 ms 20.46 %	▼ writeUtf8String		
	2298.4 ms 20.46 %	2298.4 ms 20.46 %	▼ handleWriteReq node:internal/s...ase commons:45		
Profile 1 Save	2298.4 ms 20.46 %	2298.4 ms 20.46 %	▼ writeGeneric node:internal/s...se commons:151		
	2298.4 ms 20.46 %	2298.4 ms 20.46 %	▼ Socket._writeGeneric node:net:769		
	2298.4 ms 20.46 %	2298.4 ms 20.46 %	▼ Socket._write node:net:806		
	2298.4 ms 20.46 %	2298.4 ms 20.46 %	▼ writeOrBuffer node:internal/s...s/writable:365		
	2298.4 ms 20.46 %	2298.4 ms 20.46 %	▼ _write node:internal/s...s/writable:283		
	2298.4 ms 20.46 %	2298.4 ms 20.46 %	▼ Writable.write node:internal/s...s/writable:333		
	2298.4 ms 20.46 %	2298.4 ms 20.46 %	▼ value node:internal/c...onstructor:258		
	2298.4 ms 20.46 %	2298.4 ms 20.46 %	▼ log node:internal/c...onstructor:359		
	2298.4 ms 20.46 %	2298.4 ms 20.46 %	▼ consoleCall		
	2039.4 ms 18.16 %	2039.4 ms 18.16 %	▶ renderInfo pages.controllers.js:39		
	259.0 ms 2.31 %	259.0 ms 2.31 %	▶ (anonymous) console.js:5		
	1417.6 ms 12.62 %	3925.3 ms 34.95 %	▶ consoleCall		
	621.2 ms 5.53 %	3623.2 ms 32.26 %	▶ callLexerFunction index.js:1635		
	470.1 ms 4.19 %	470.1 ms 4.19 %	(garbage collector)		
	401.0 ms 3.57 %	2098.6 ms 18.68 %	▶ lex index.js:10		
	338.3 ms 3.01 %	3398.3 ms 30.26 %	▶ recurse index.ts:95		
	271.3 ms 2.42 %	271.3 ms 2.42 %	▶ getCPUs		
	202.9 ms 1.81 %	284.0 ms 2.53 %	▶ parse index.js:10		
	186.0 ms 1.66 %	186.0 ms 1.66 %	▶ stringify index.js:4		
	183.0 ms 1.63 %	212.7 ms 1.89 %	▶ load index.js:9		
	170.6 ms 1.52 %	240.0 ms 2.14 %	▶ unwrapReturns index.ts:130		
	161.3 ms 1.44 %	161.3 ms 1.44 %	▶ wordsRegexp acorn.js:276		
	124.3 ms 1.11 %	124.3 ms 1.11 %	▶ State.current index.js:200		
	120.1 ms 1.07 %	120.1 ms 1.07 %	▶ stat		
	102.8 ms 0.92 %	102.8 ms 0.92 %	▶ get index.js:623		
	93.9 ms 0.84 %	93.9 ms 0.84 %	▶ getOptions options.js:83		
	86.8 ms 0.77 %	210.5 ms 1.87 %	▶ parseChar index.js:76		
	80.7 ms 0.72 %	80.7 ms 0.72 %	▶ writev		
	74.1 ms 0.66 %	637.6 ms 5.68 %	▶ walkAST index.js:4		
	68.3 ms 0.61 %	273.1 ms 2.43 %	▶ recurse index.ts:142		
	67.5 ms 0.60 %	224.0 ms 1.99 %	▶ getTokenFromCode index.js:850		
	66.3 ms 0.59 %	1633.8 ms 14.55 %	▶ advance index.js:1656		

Autocannon y controller con console.log:

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

Stat	2.5%	50%	97.5%	99%	Avg	Stdev	Max
Latency	744 ms	844 ms	1028 ms	1075 ms	848.06 ms	93.93 ms	1156 ms

Stat	1%	2.5%	50%	97.5%	Avg	Stdev	Min
Req/Sec	84	84	117	126	115.6	9.36	84
Bytes/Sec	142 kB	142 kB	198 kB	213 kB	196 kB	15.8 kB	142 kB

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

2k requests in 20.12s, 3.91 MB read

Autocannon y controller sin console.log: Disminuye la latencia y aumenta un 60% la cantidad de request que puede procesar por segundo.

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

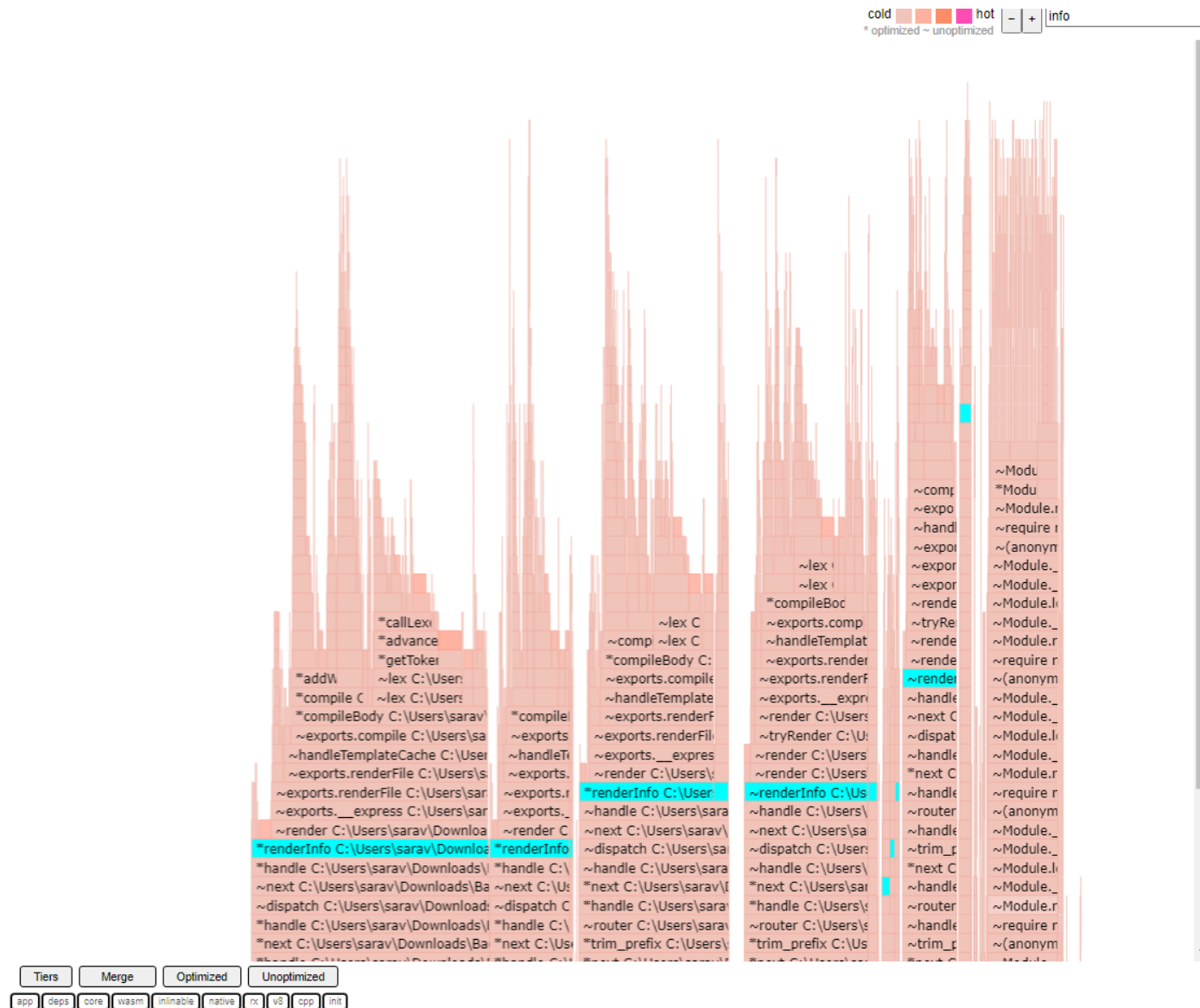
Stat	2.5%	50%	97.5%	99%	Avg	Stdev	Max
Latency	467 ms	497 ms	605 ms	747 ms	509.24 ms	50.6 ms	967 ms



Stat	1%	2.5%	50%	97.5%	Avg	Stdev	Min
Req/Sec	106	106	198	211	194.05	21.3	106
Bytes/Sec	179 kB	179 kB	335 kB	357 kB	328 kB	36 kB	179 kB

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

```
4k requests in 20.08s, 6.57 MB read
```

0x: Diagrama de flama con 100 conexiones y tiempo de duración de 20 s



cold  hot  info

* optimized ~ unoptimized

