

ZipF

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24 November, 2021

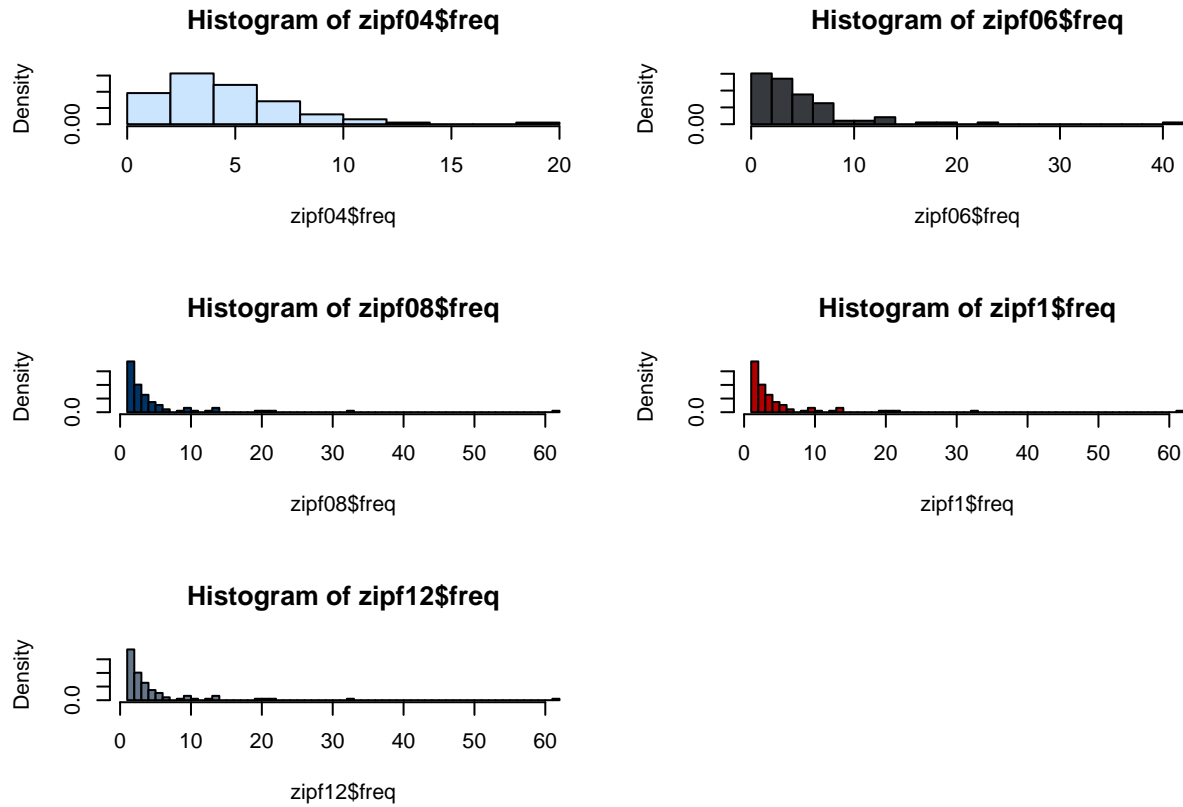
Parâmetros

Parâmetros	Valores
alfa zipf	0.4, 0.6, 0.8, 1, 1.2
lambda	5
n	100
beta	0.2
BS	32
Cache	100
UE	200
Storage	MBS 20GB SBS 4GB
Coverage	MBS 300 SBS 70
RTT inicial	CS/MBS 0.001s(1ms) MBS/MBS 0.001s(1ms) MBS/SBS 0.001s(1ms) SBS/UE 0.001s(1ms)
Tempo da Requisição	10 eventos
Mobilidade	40m

Informações da Aplicação.

Vazão Mínima	Tamanho da Cache	Buffer
100 Mbps	2GB/2000MB	48Mb
100 Mbps	4GB/4000MB	48Mb
100 Mbps	8GB/8000MB	48Mb

Distribuição de popularidade do conteúdo solicitado.



Taxa de requisições alocadas.

$$\alpha : 0.4 = 100\% - 500/500.$$

$$\alpha : 0.6 = 100\% - 500/500.$$

$$\alpha : 0.8 = 100\% - 500/500.$$

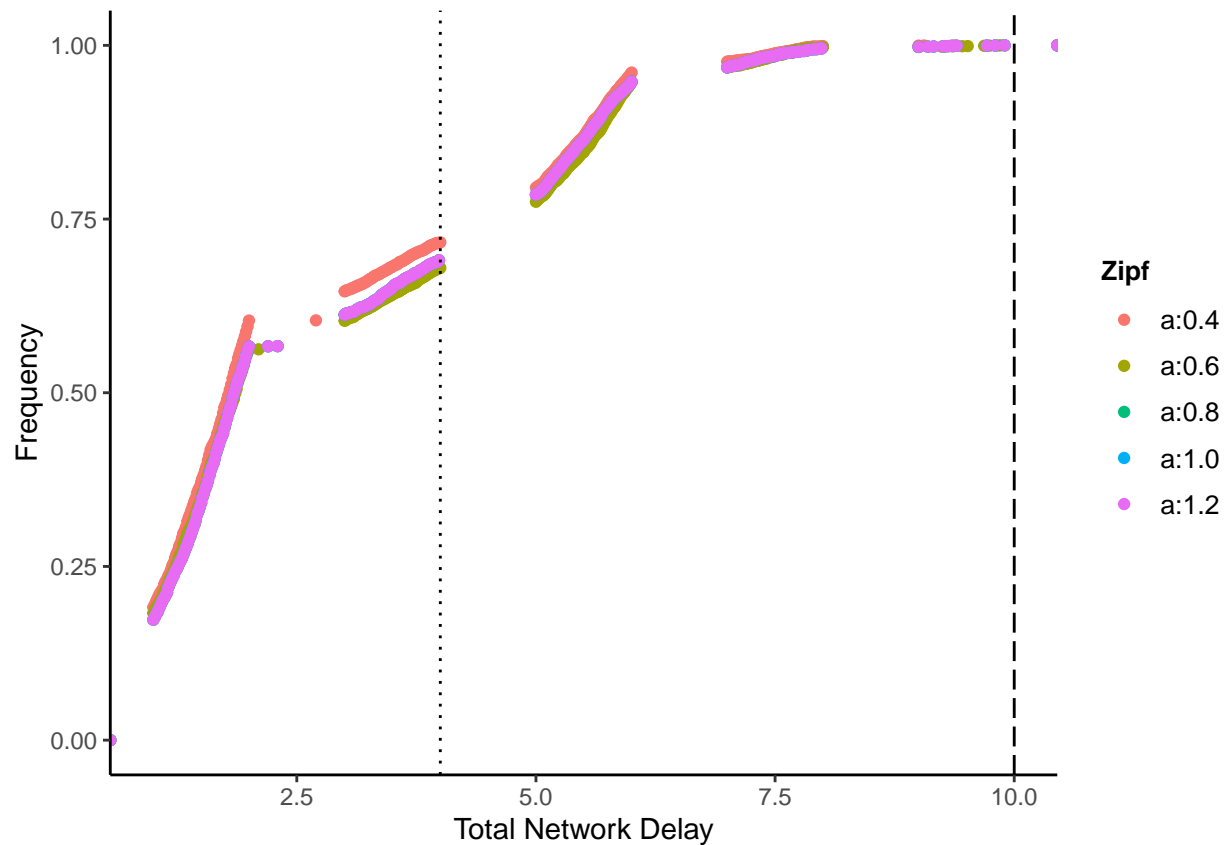
$$\alpha : 1.0 = 100\% - 500/500.$$

$$\alpha : 1.2 = 100\% - 500/500.$$

Distribuição da Latência

Saving 6.5 x 4.5 in image

Saving 6.5 x 4.5 in image



$\alpha: 0.4$

Em 71.56% da amostra a latência das requisições são menores que 4 milisegundos.

Em 100% da amostra a latência das requisições são menores que 10 milisegundos.

$\alpha: 0.6$

Em 67.9% da amostra a latência das requisições são menores que 4 milisegundos.

Em 100% da amostra a latência das requisições são menores que 10 milisegundos.

$\alpha: 0.8$

Em 69.07% da amostra a latência das requisições são menores que 4 milisegundos.

Em 100% da amostra a latência das requisições são menores que 10 milisegundos.

$\alpha: 1.0$

Em 67.9% da amostra a latência das requisições são menores que 4 milisegundos.

Em 100% da amostra a latência das requisições são menores que 10 milisegundos.

$\alpha: 1.2$

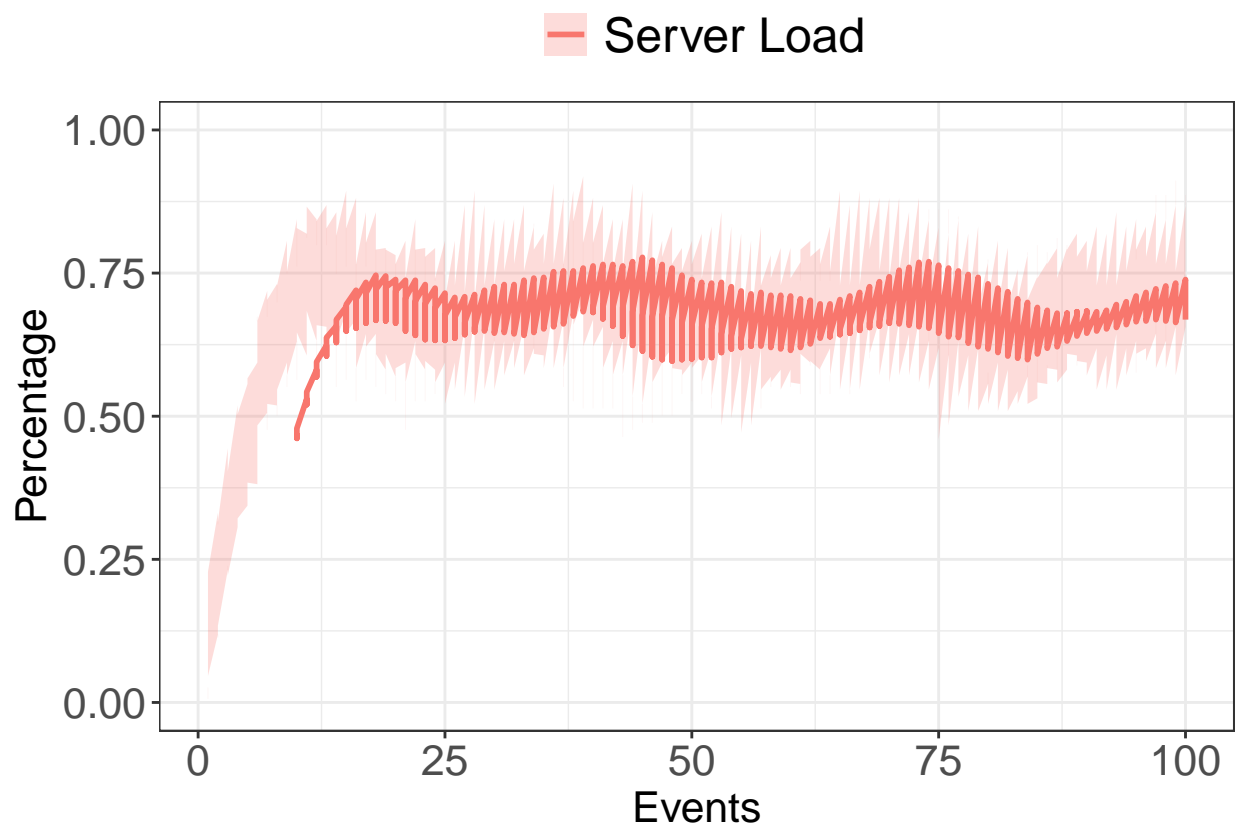
Em 69.07% da amostra a latência das requisições são menores que 4 milisegundos.

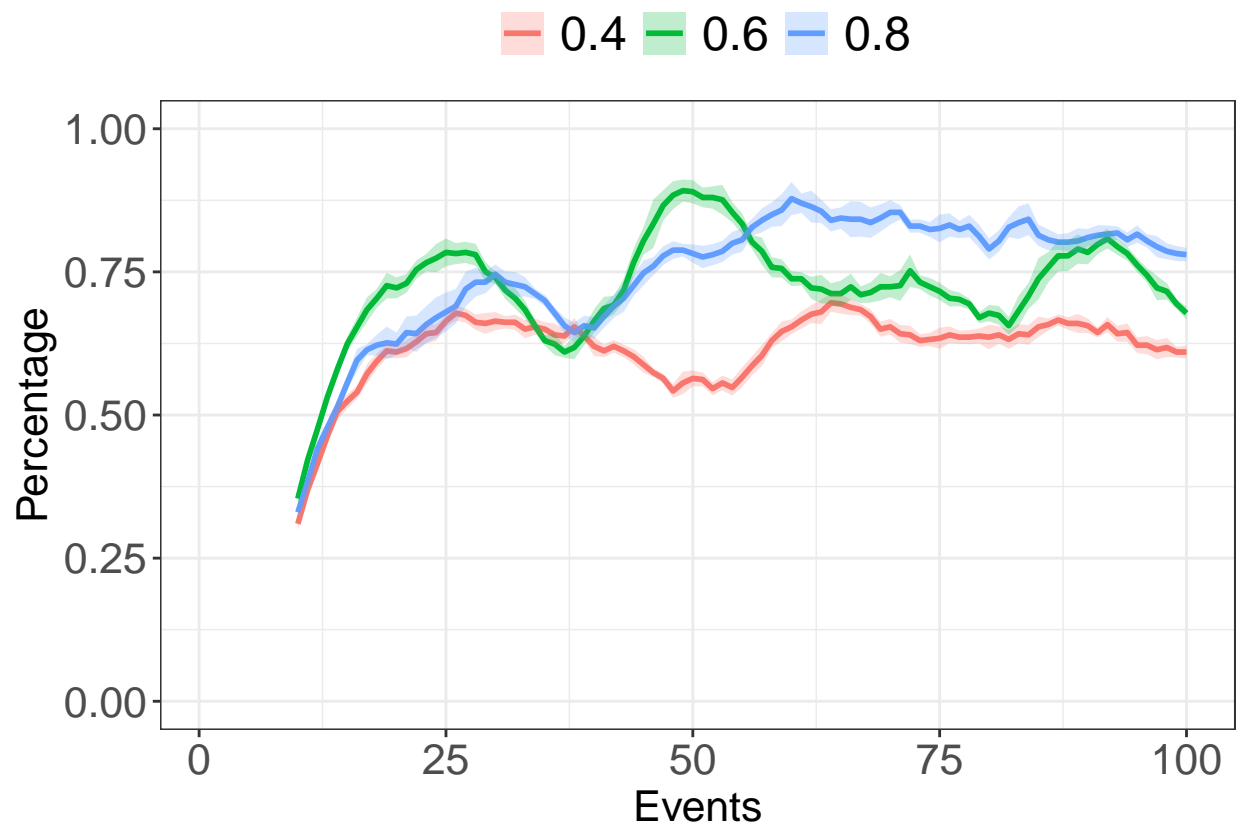
Em 100% da amostra a latência das requisições são menores que 10 milisegundos.

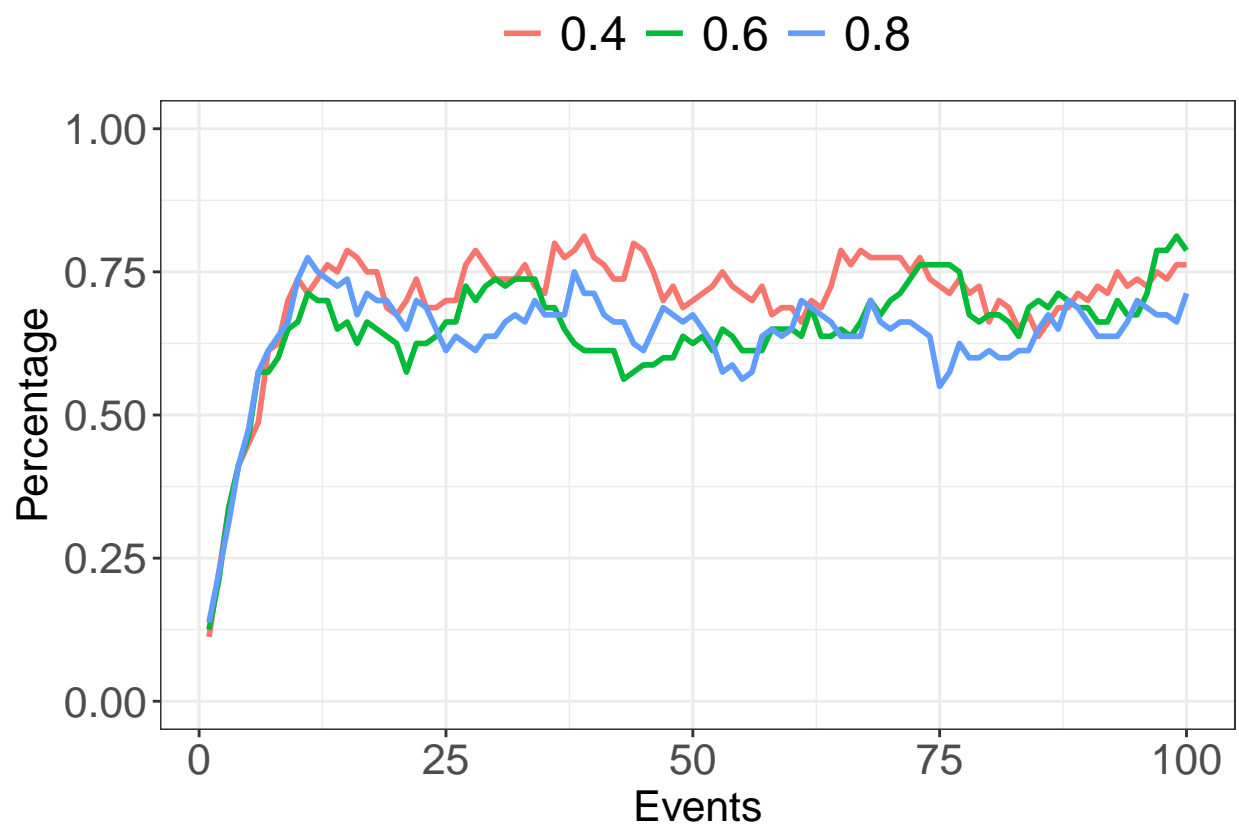
Cache, Cloud e Storage.

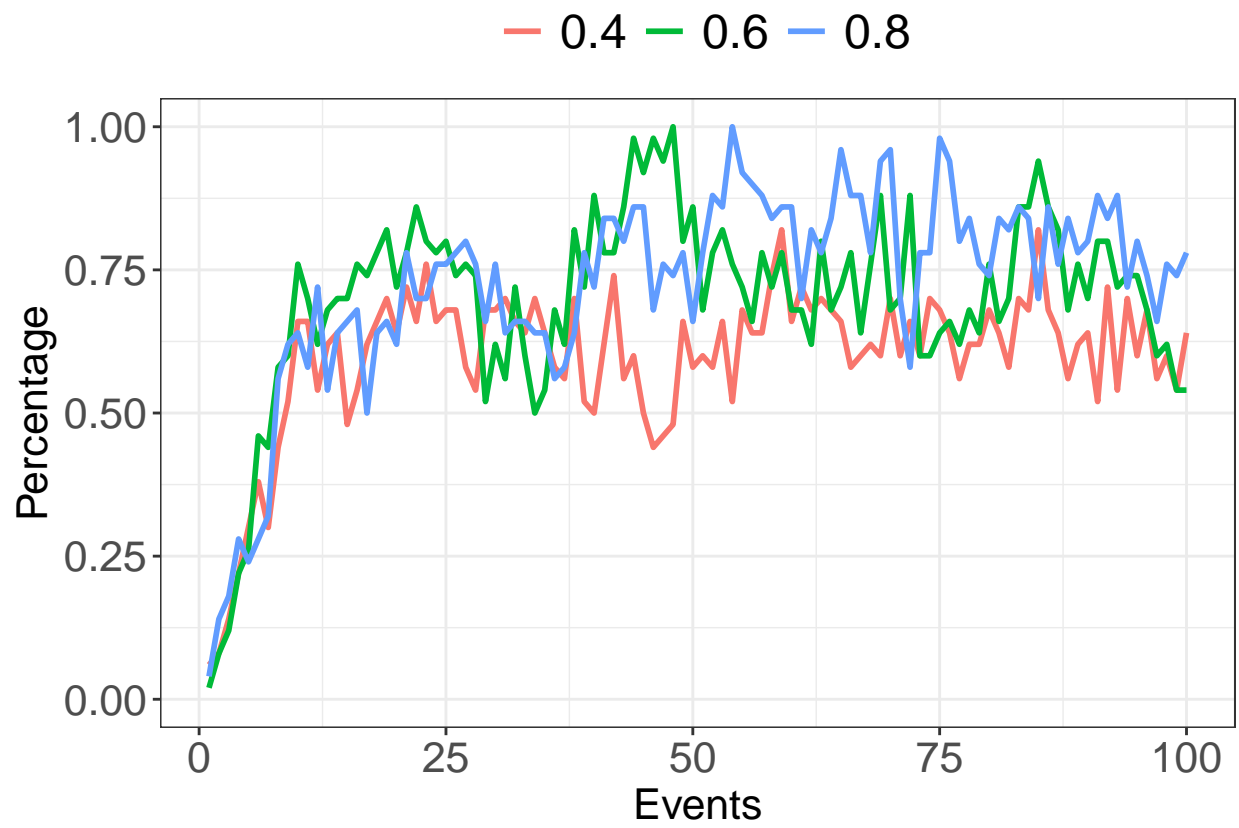
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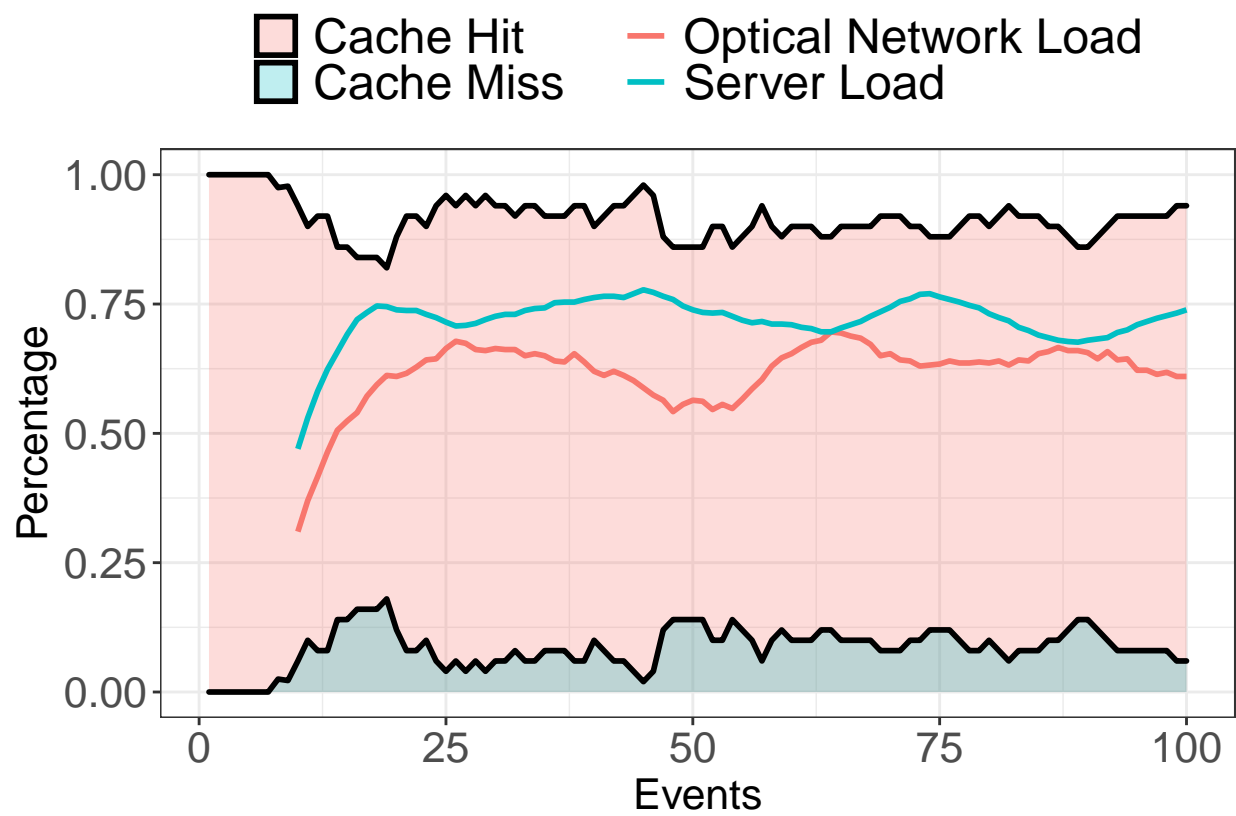
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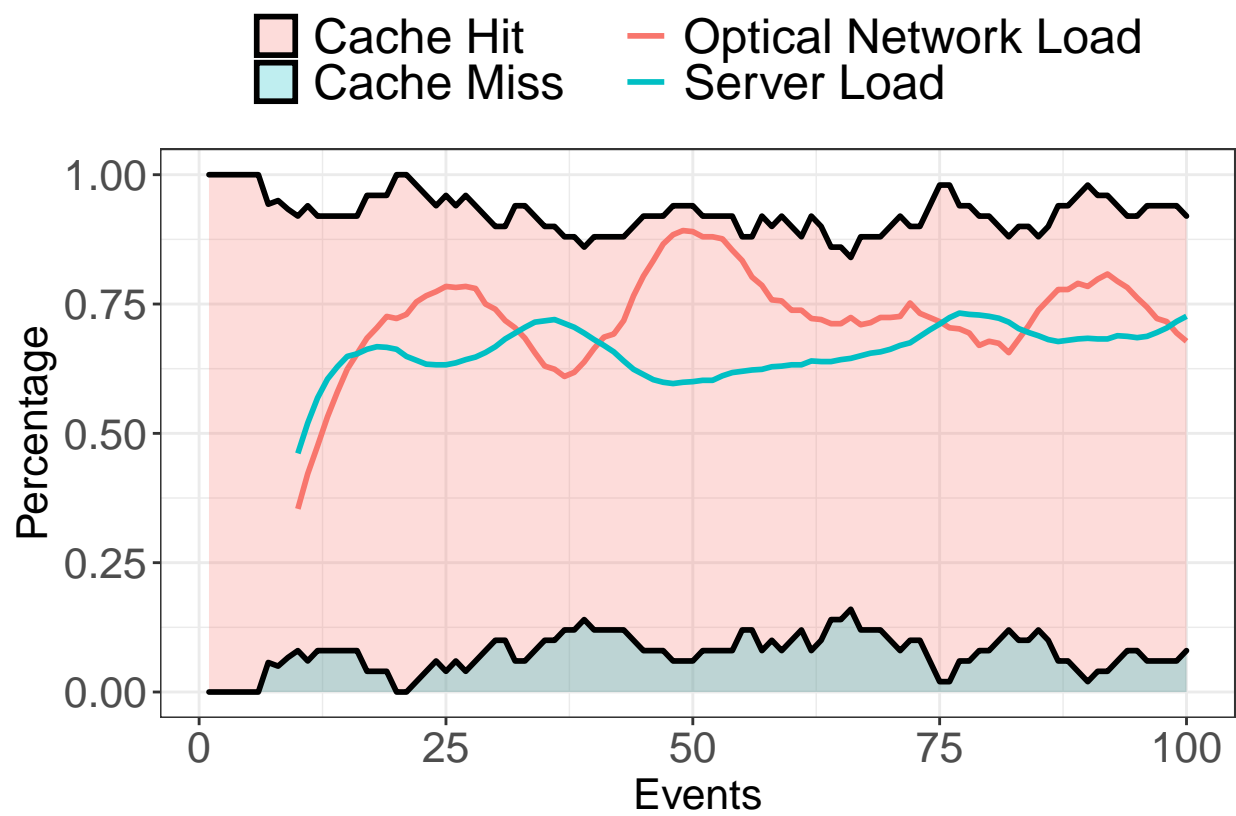


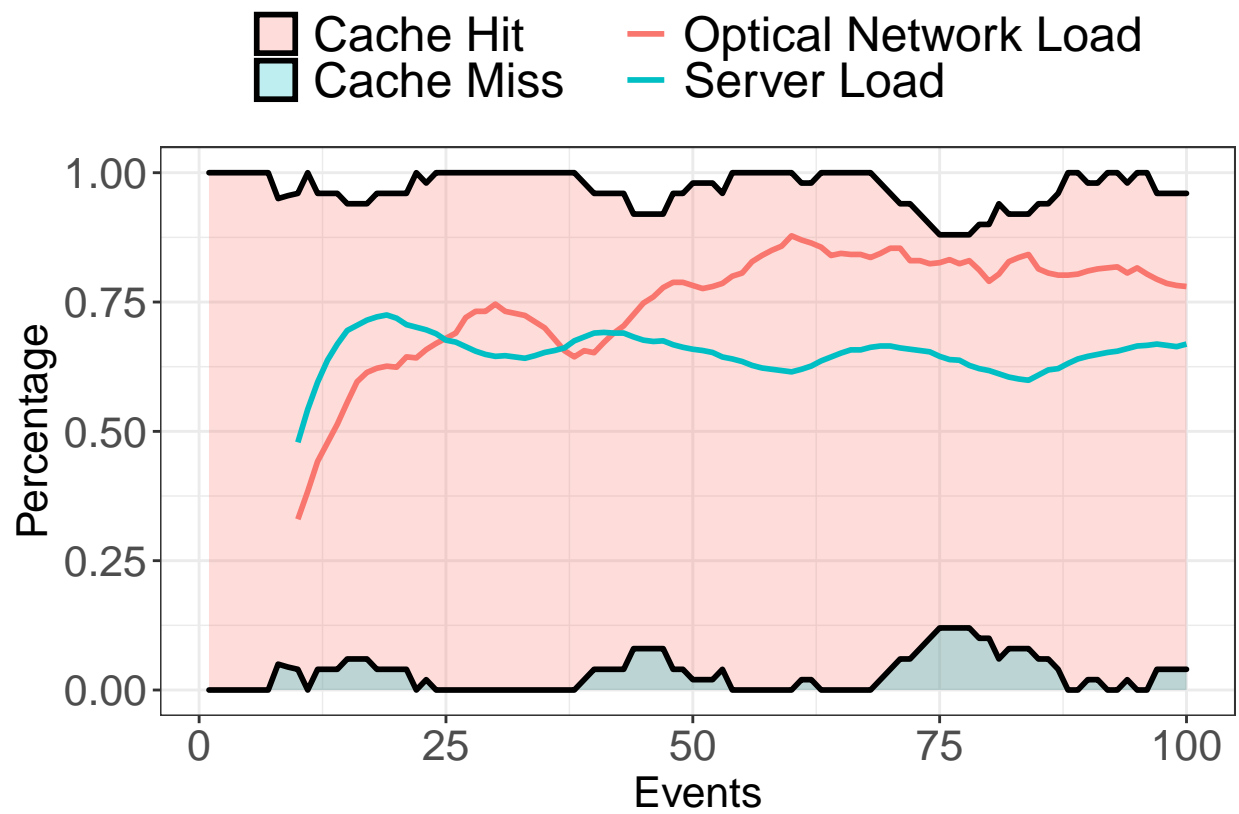












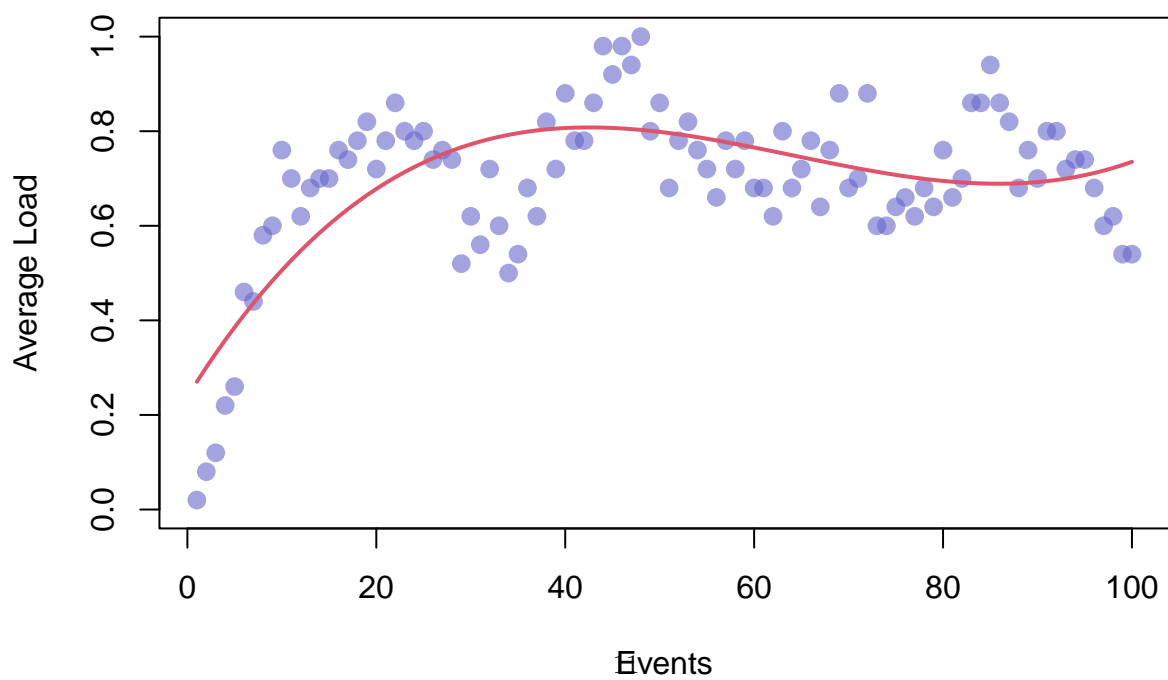
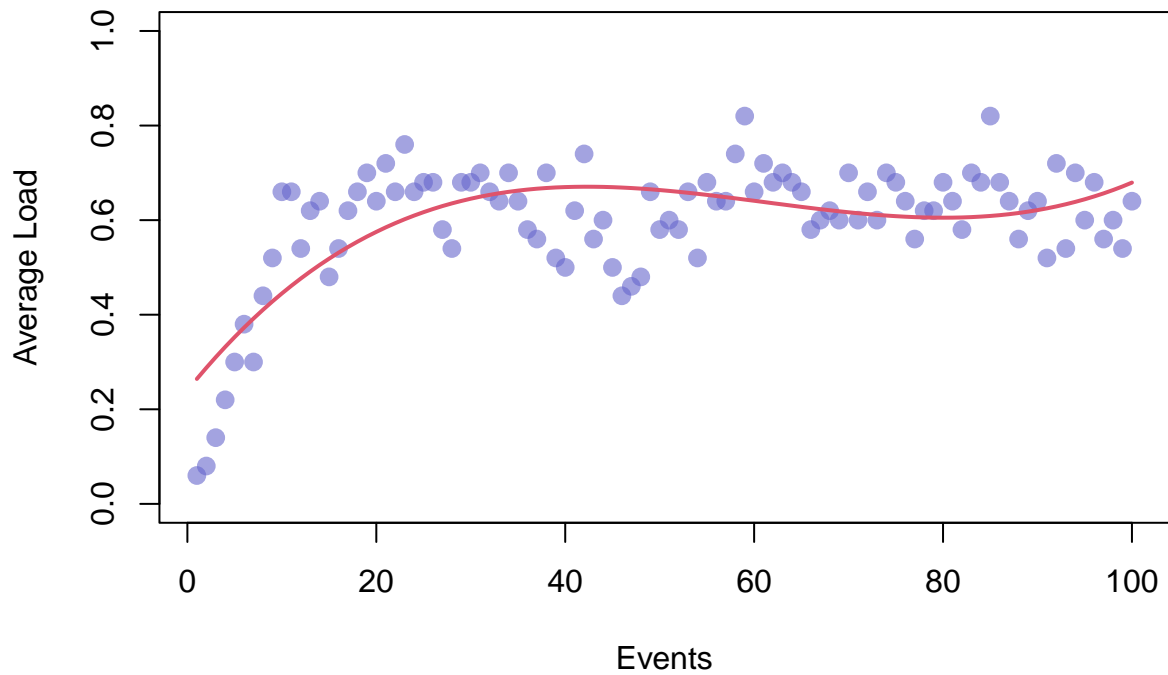
Correlação entre uso do armazenamento de variação de α

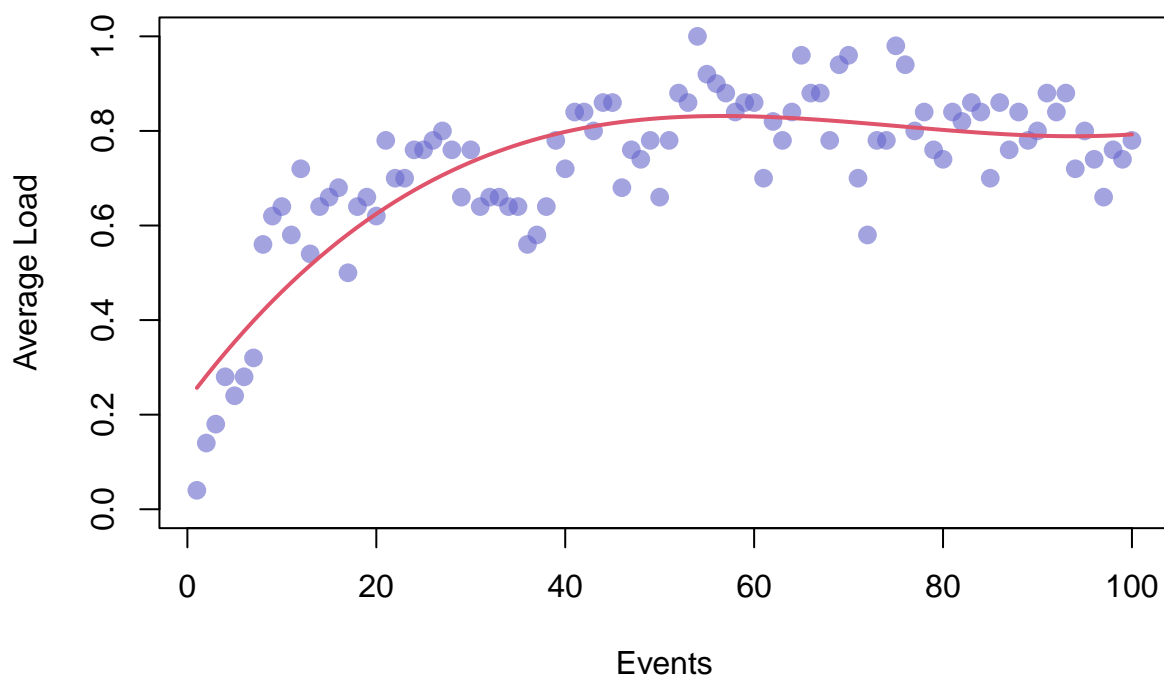
Correlação entre as medianas da latência e variação de α

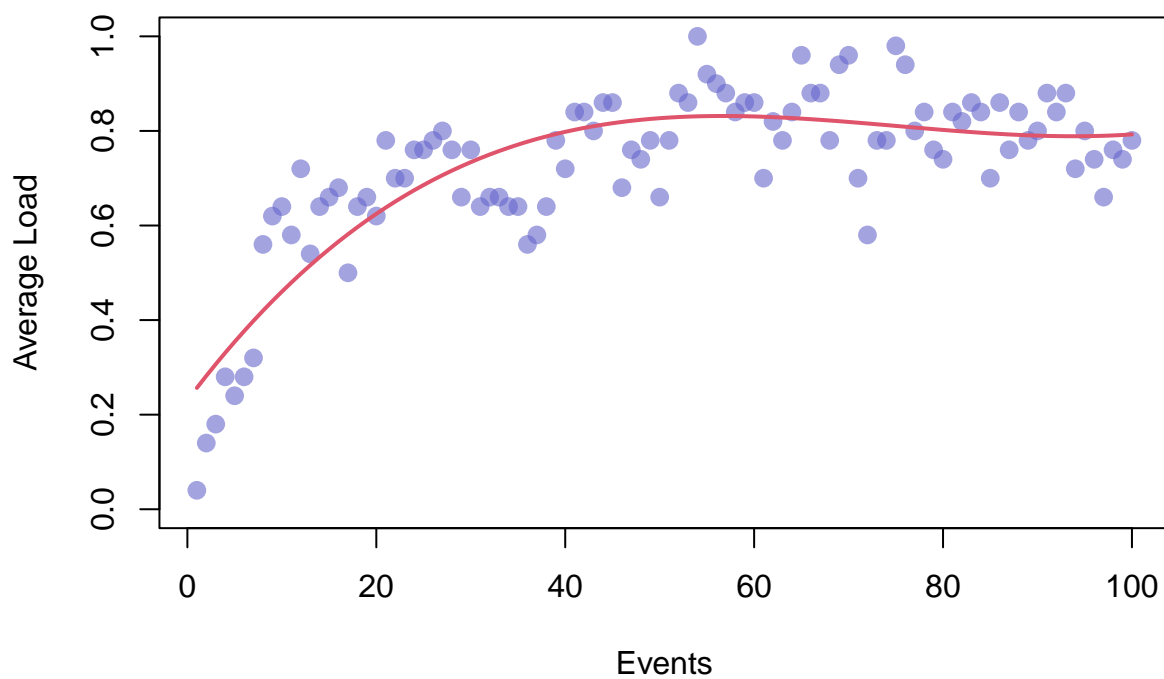
[1] 0.5702474

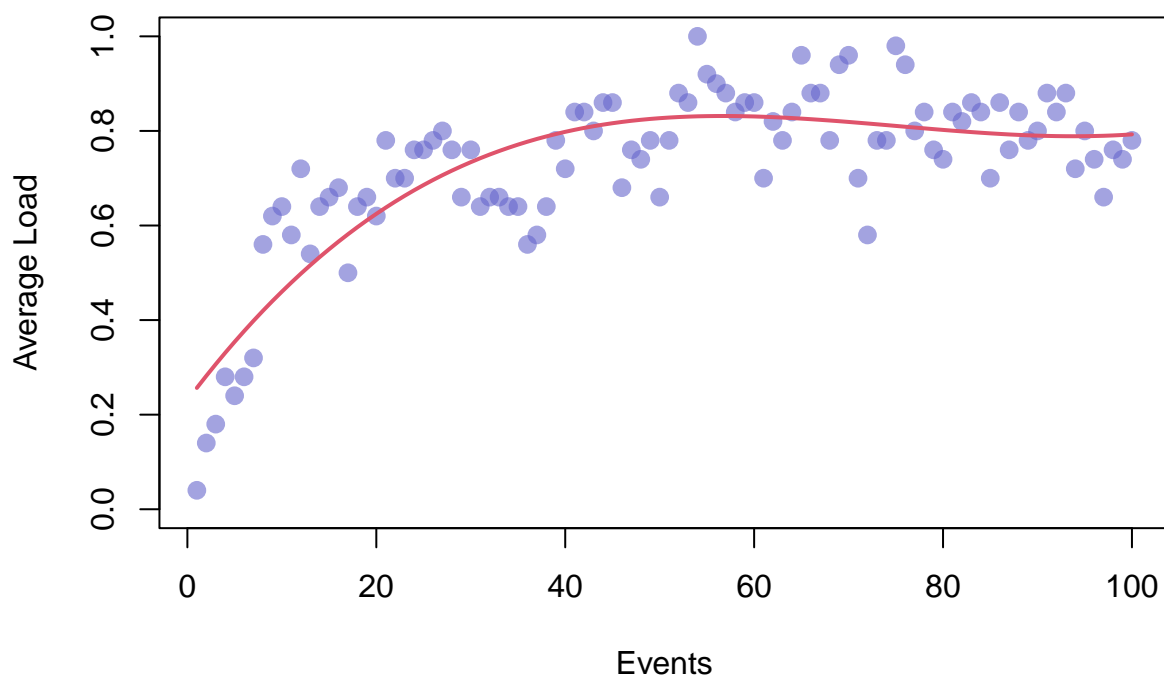
Correlação entre taxas aceitação e variação de α

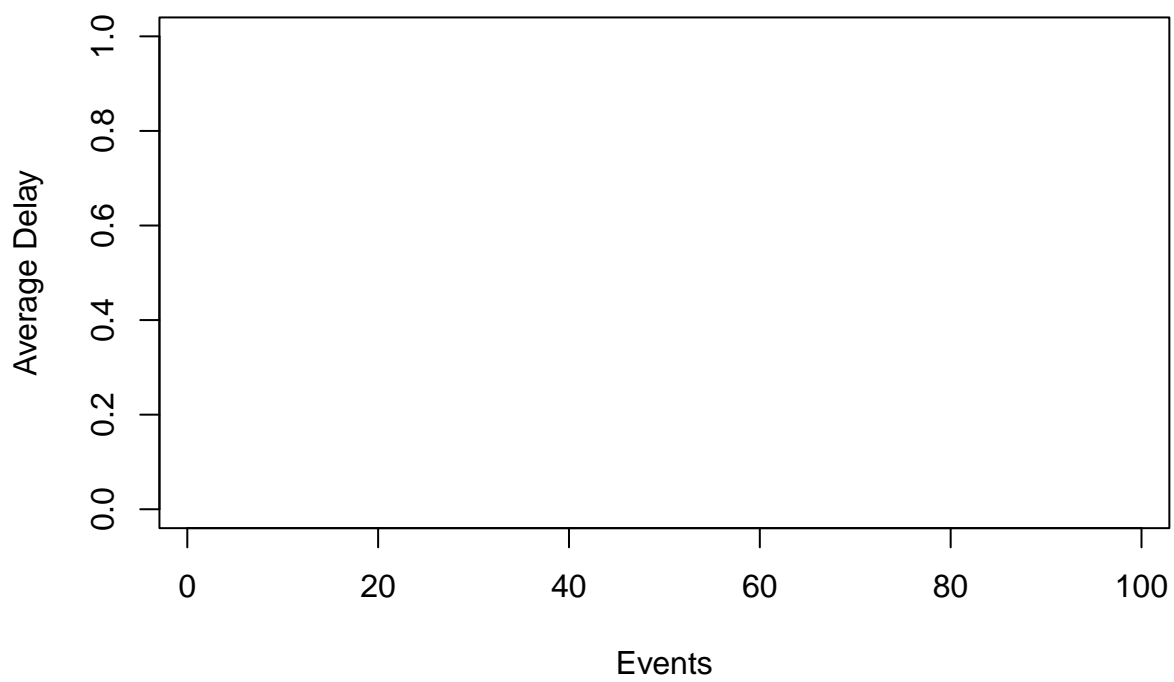
Somatório da Carga dos enlaces ópticos por evento(normalizado pelo maior somatório).

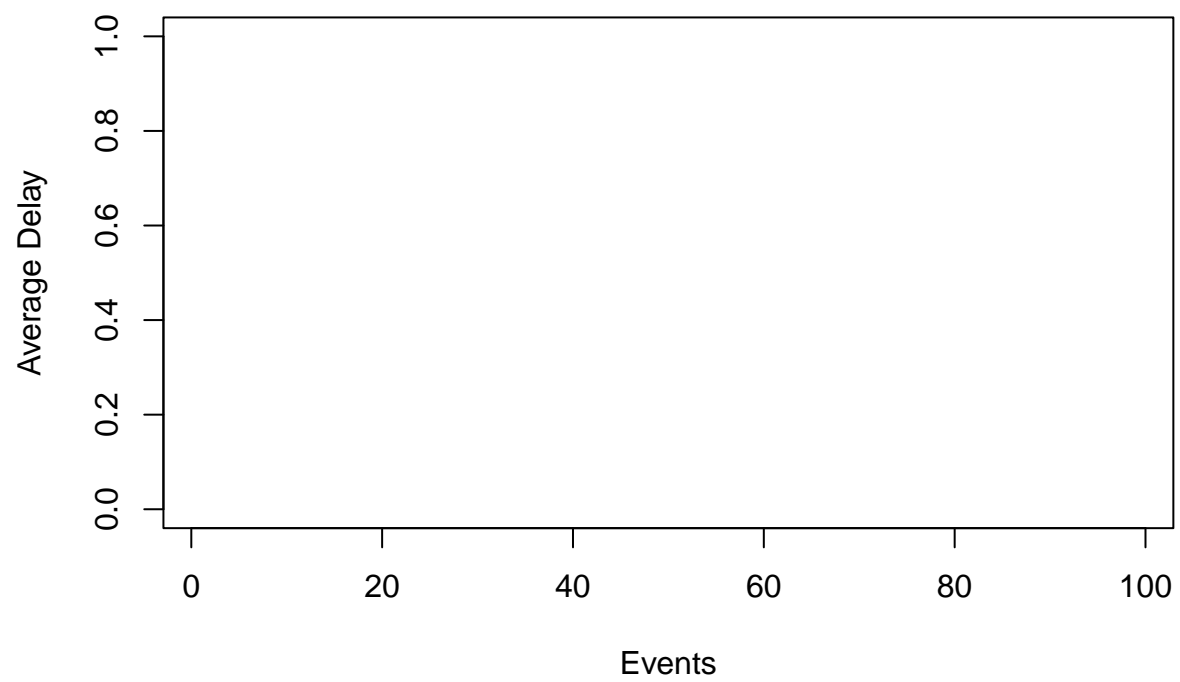


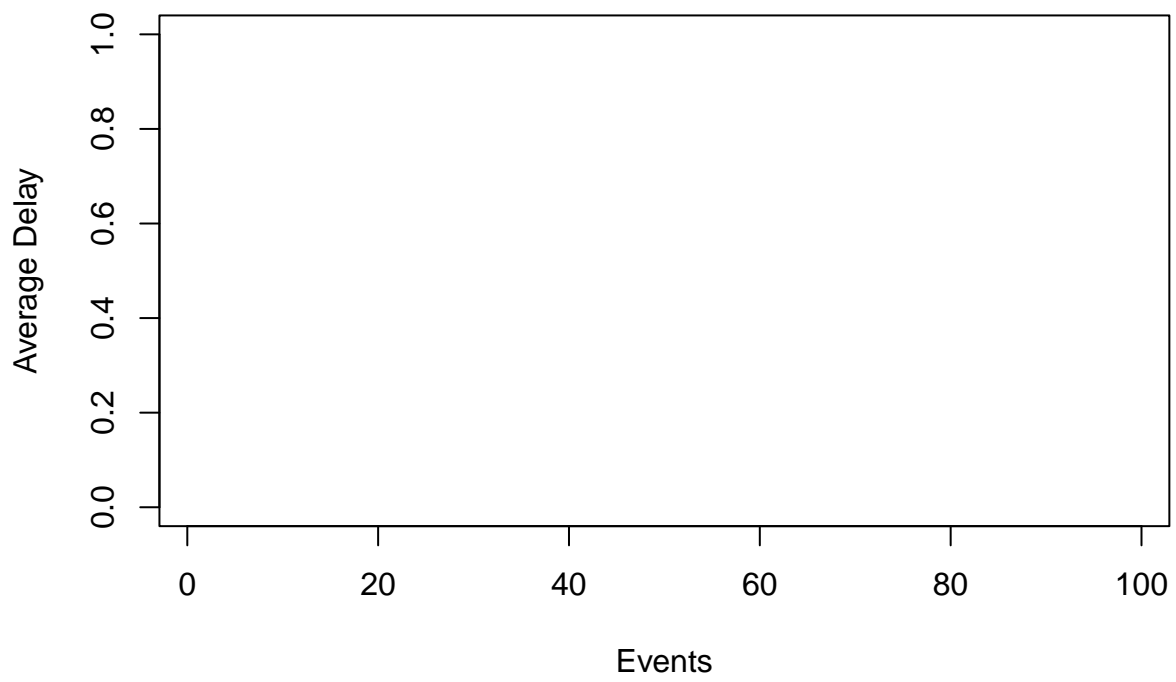


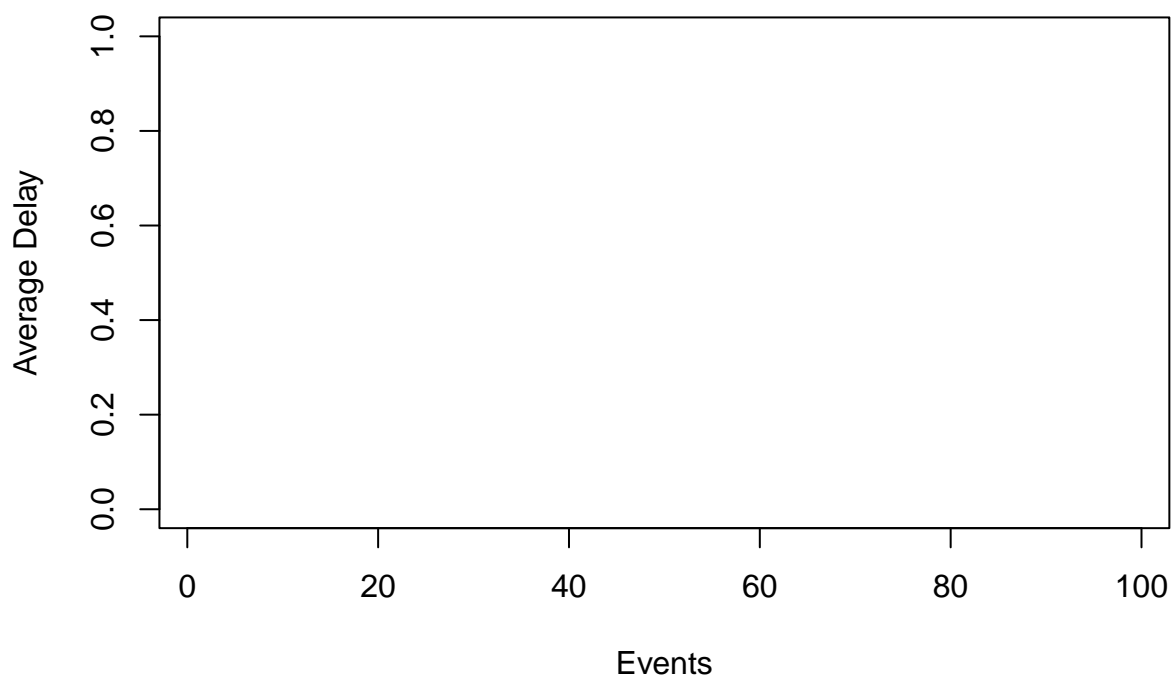


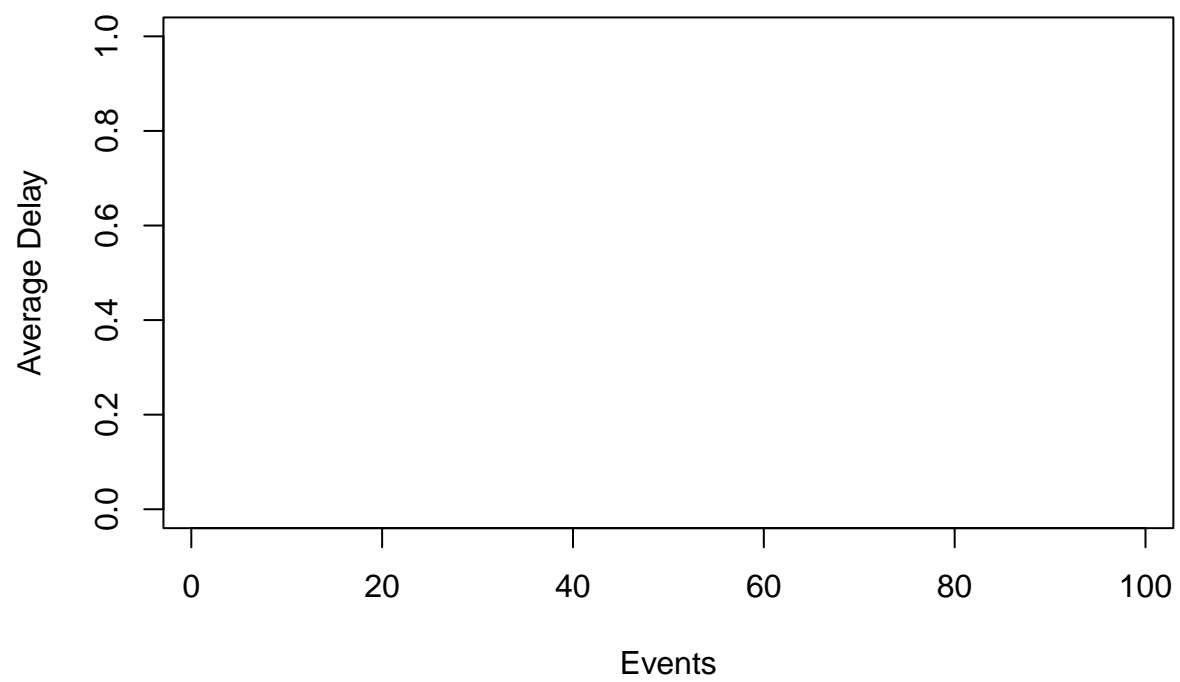


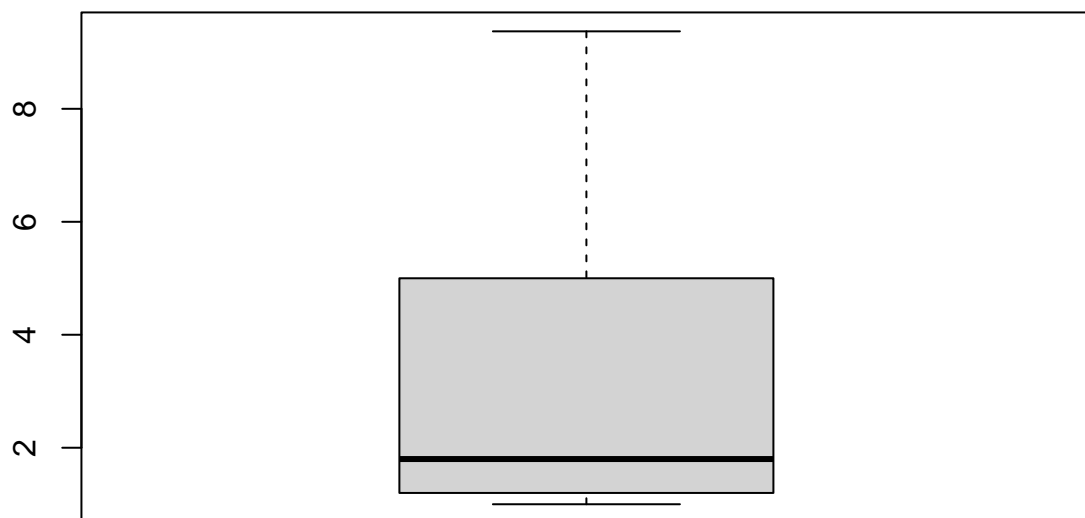




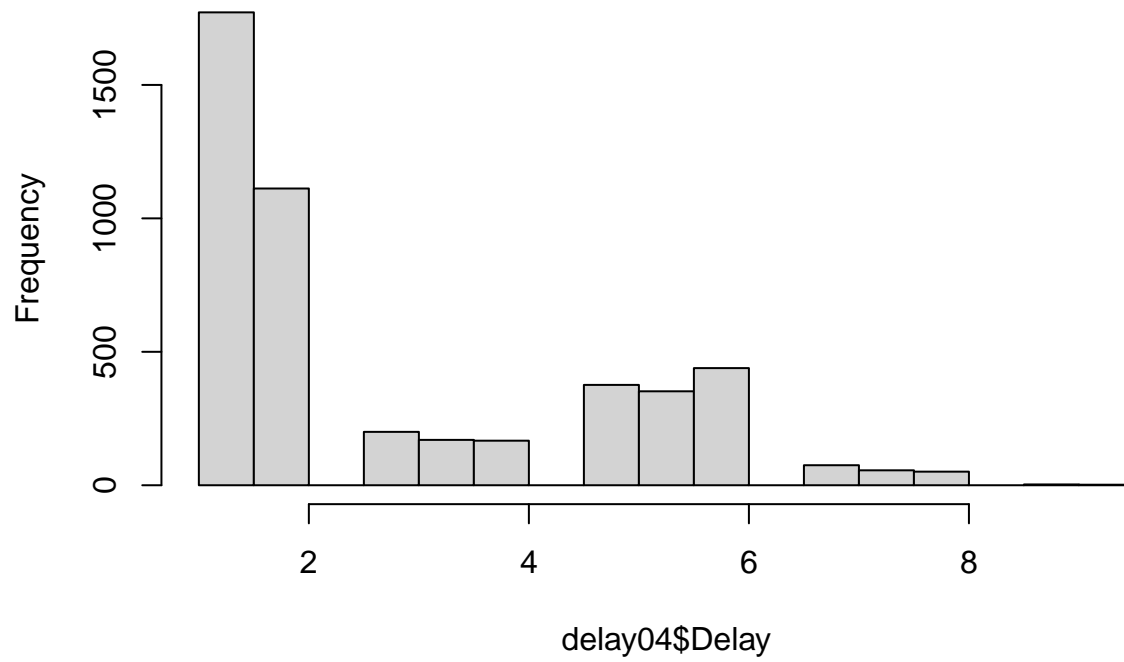


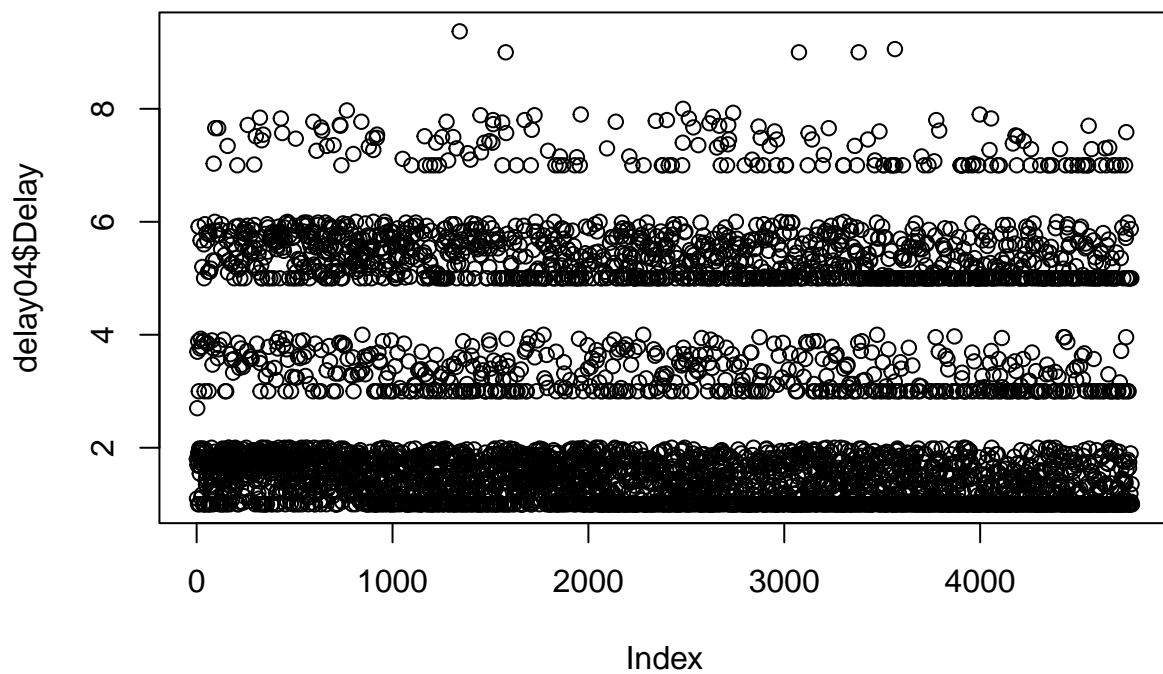


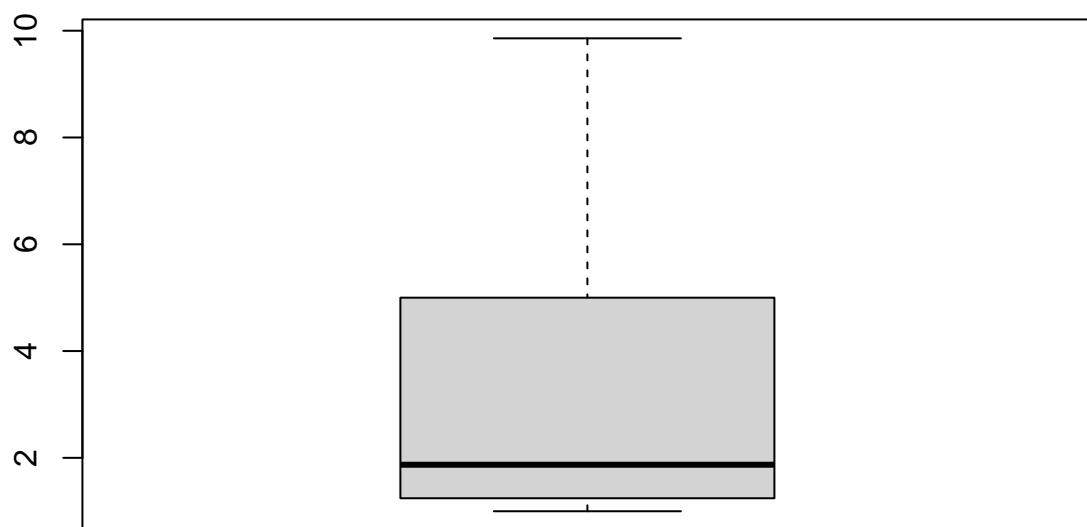




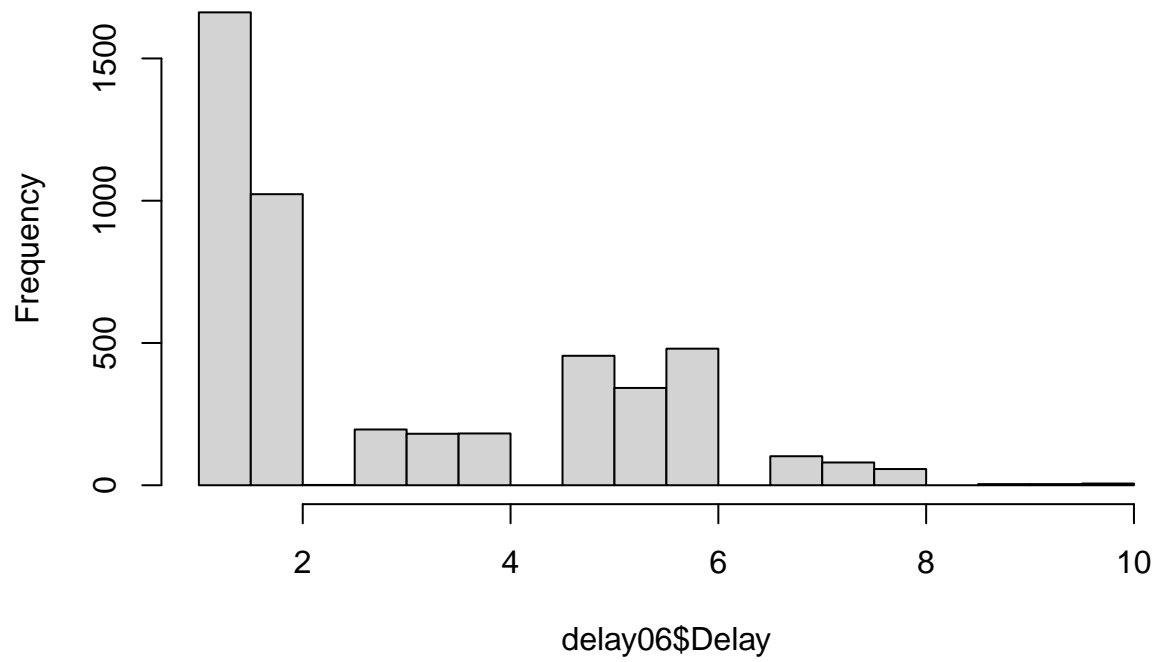
Histogram of delay04\$Delay

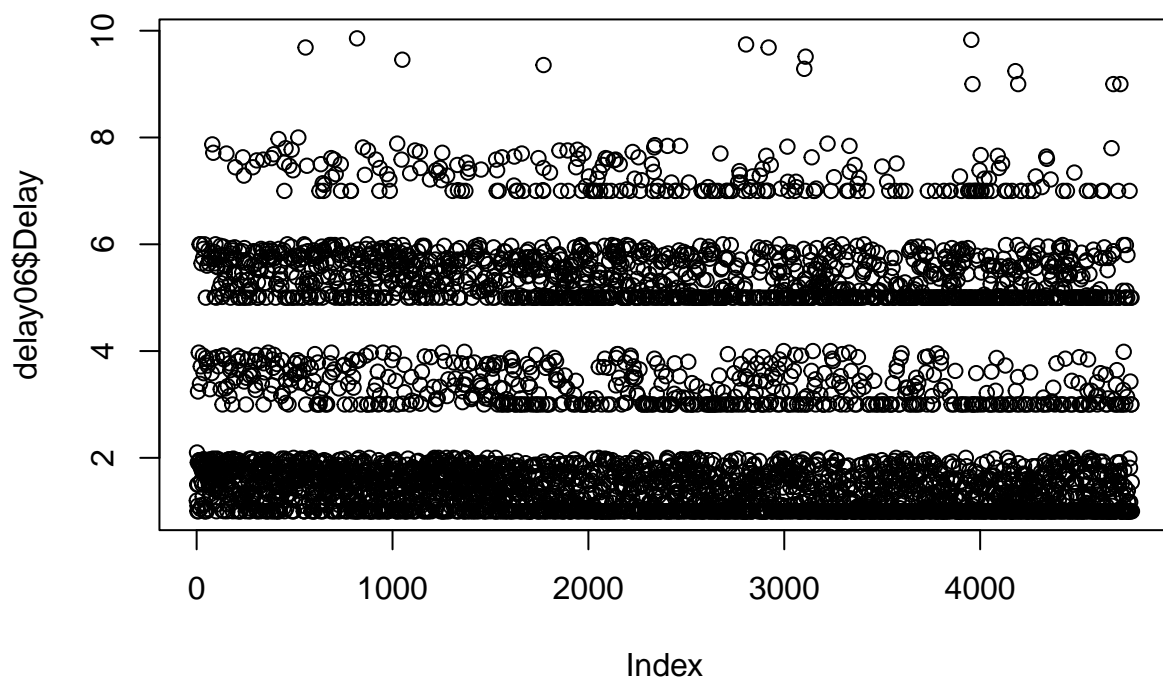


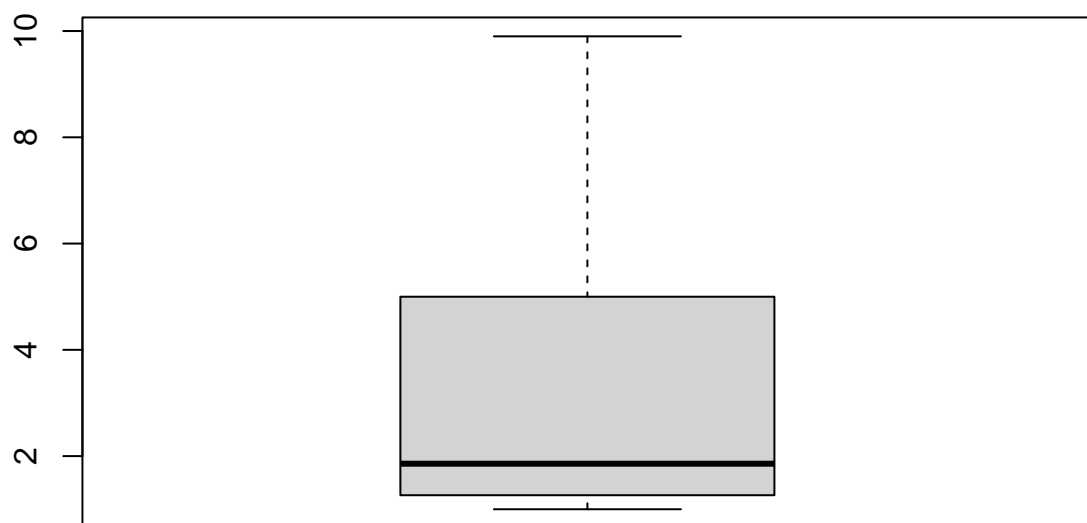




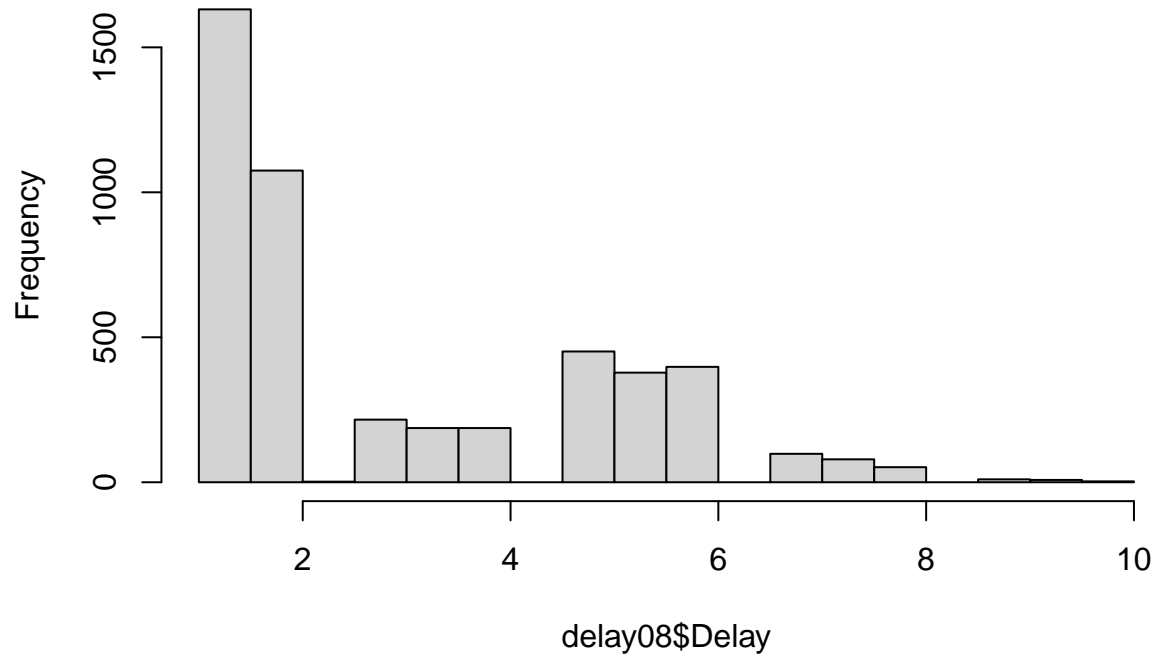
Histogram of delay06\$Delay

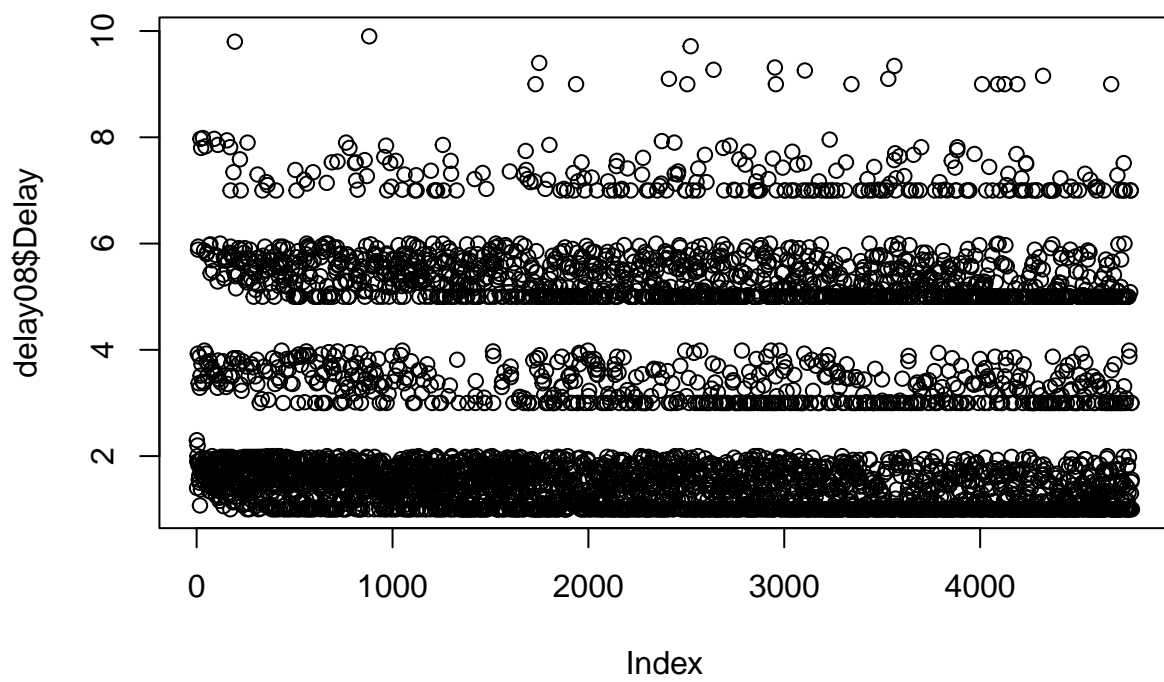


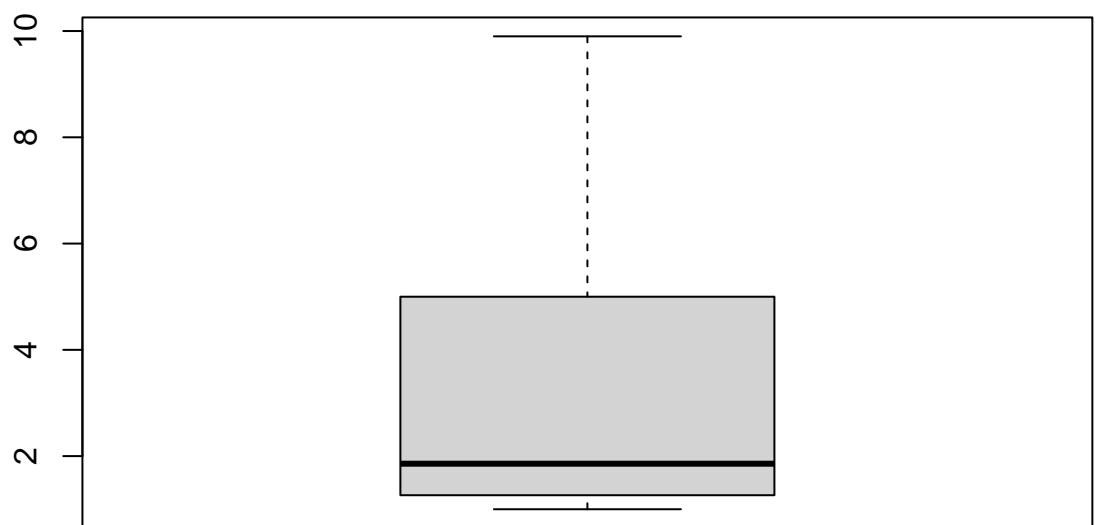




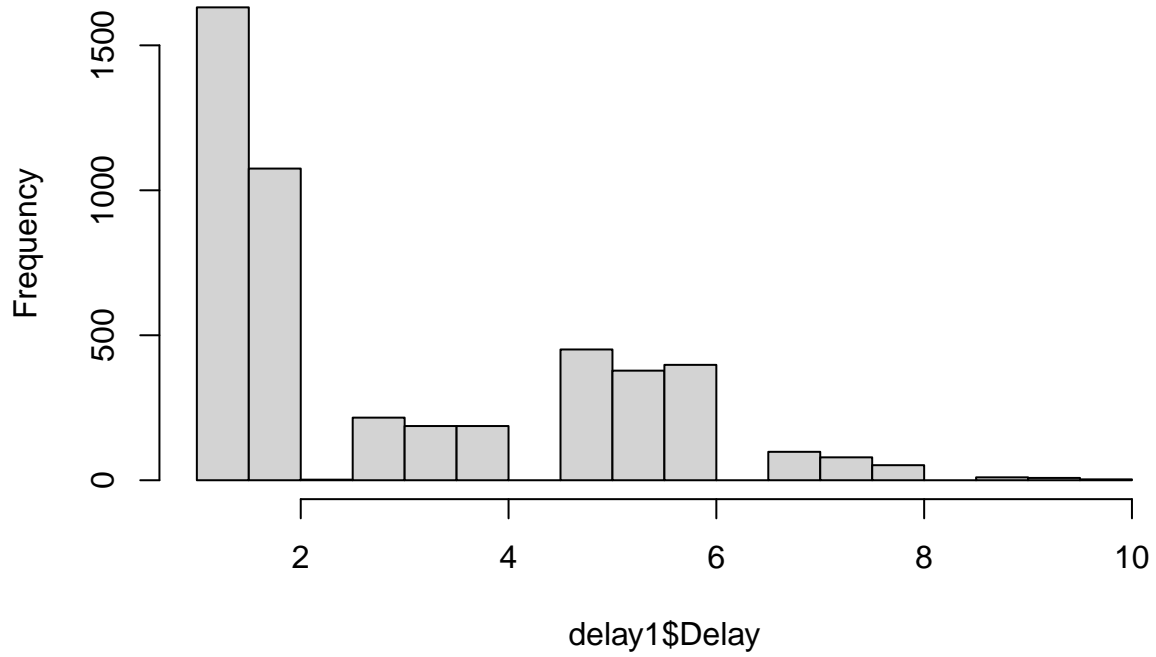
Histogram of delay08\$Delay

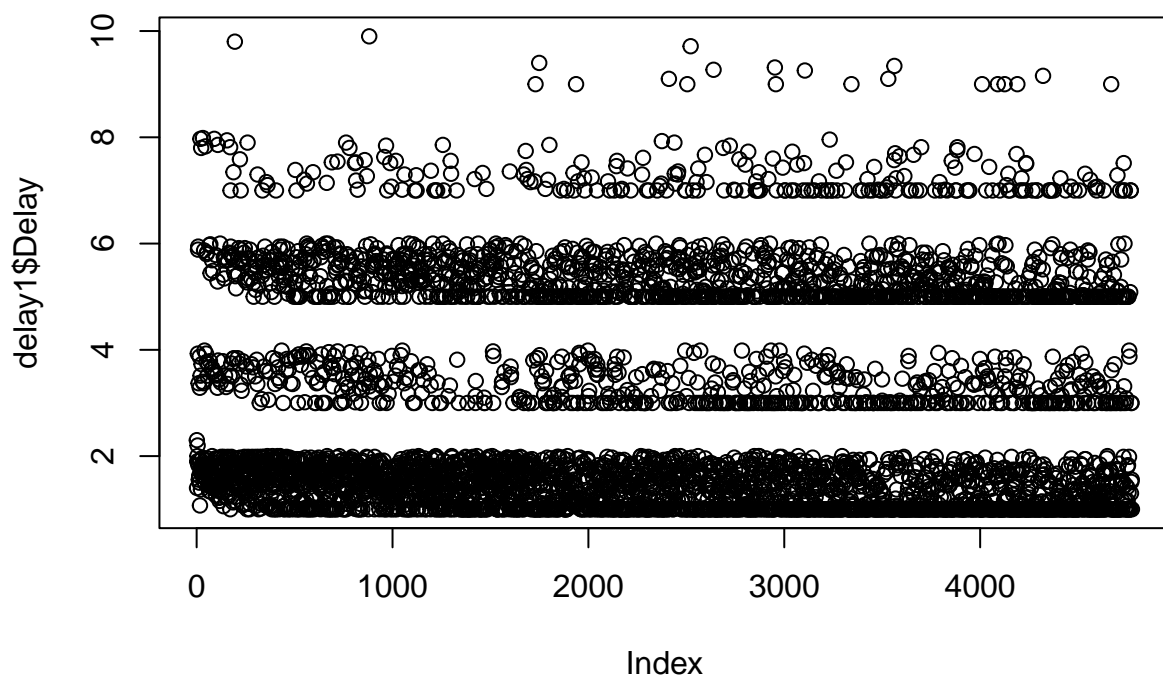


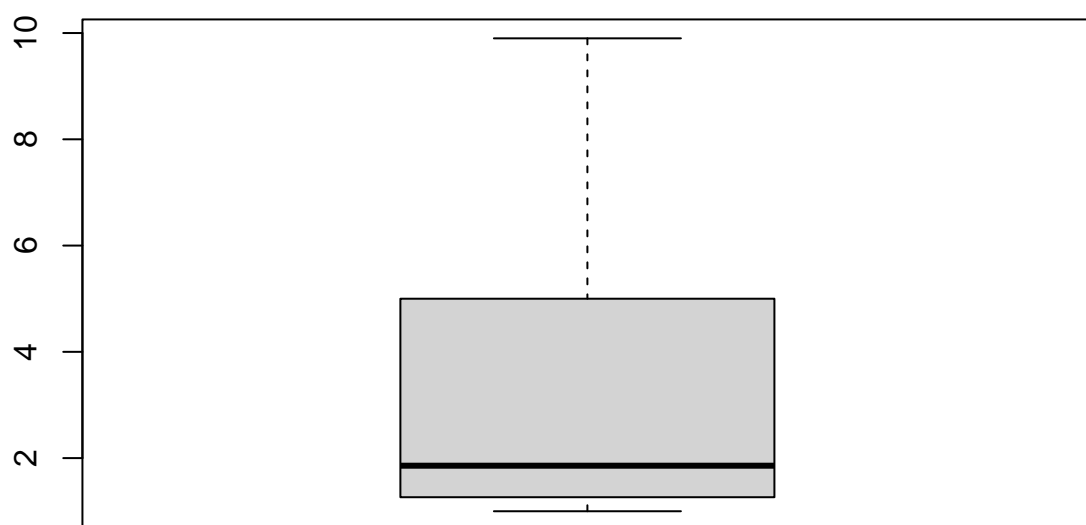




Histogram of delay1\$Delay







Histogram of delay12\$Delay

