

ZipF

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19 January, 2022

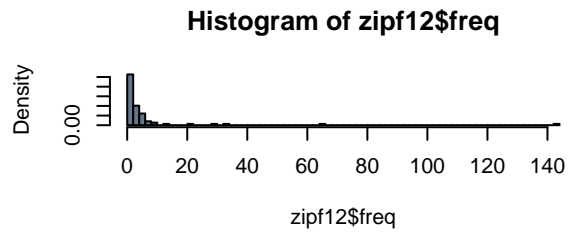
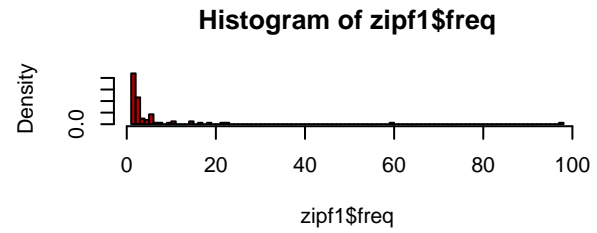
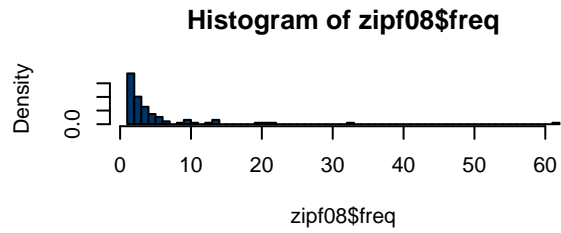
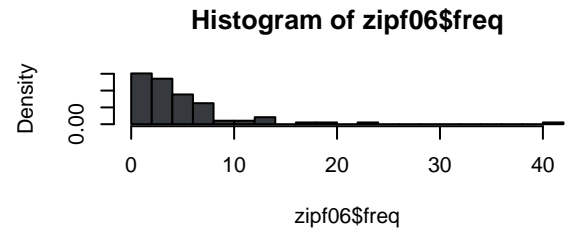
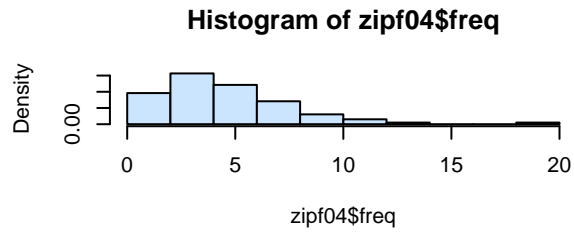
Parâmetros

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	10m

Informações da Aplicação.

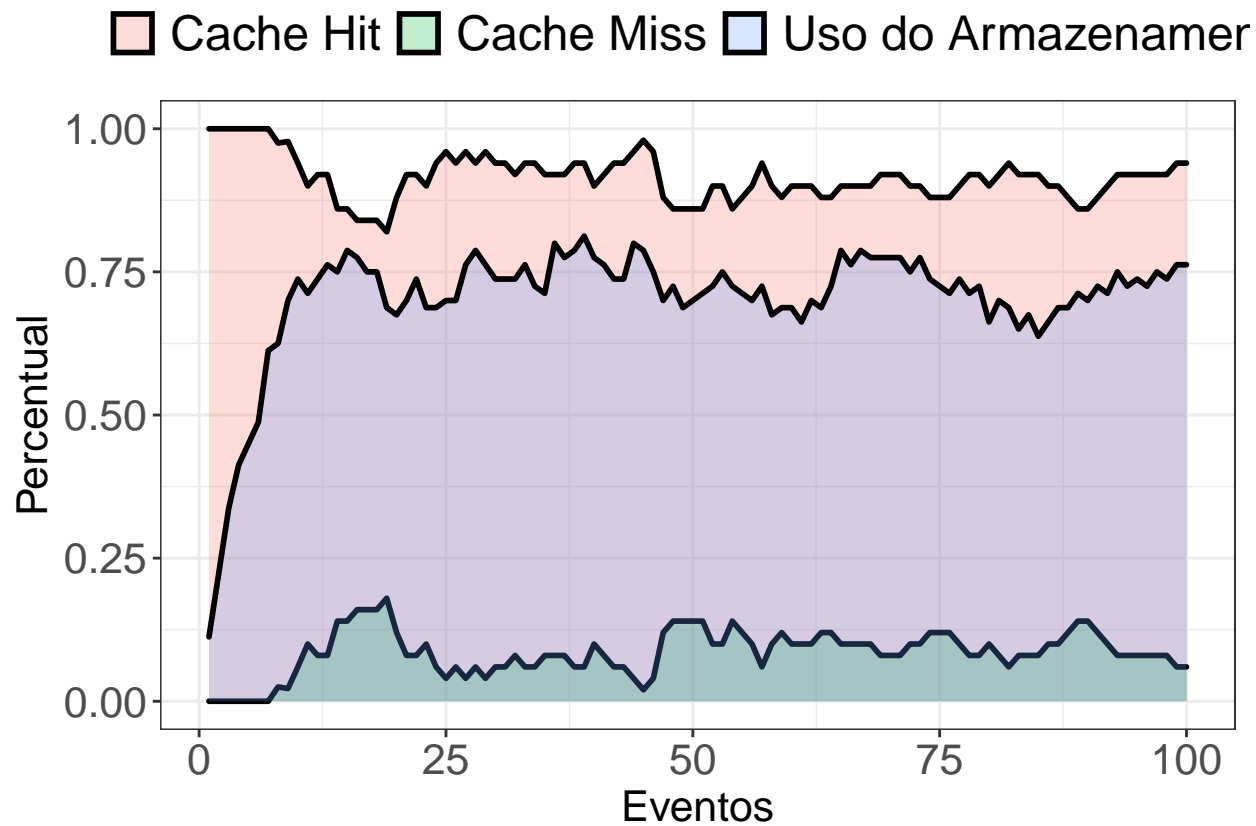
Vazão Mínima	Tamanho da Cache	Buffer
100 Mbps	2GB/2000MB	48Mb
100 Mbps	4GB/4000MB	48Mb
100 Mbps	8GB/8000MB	48Mb

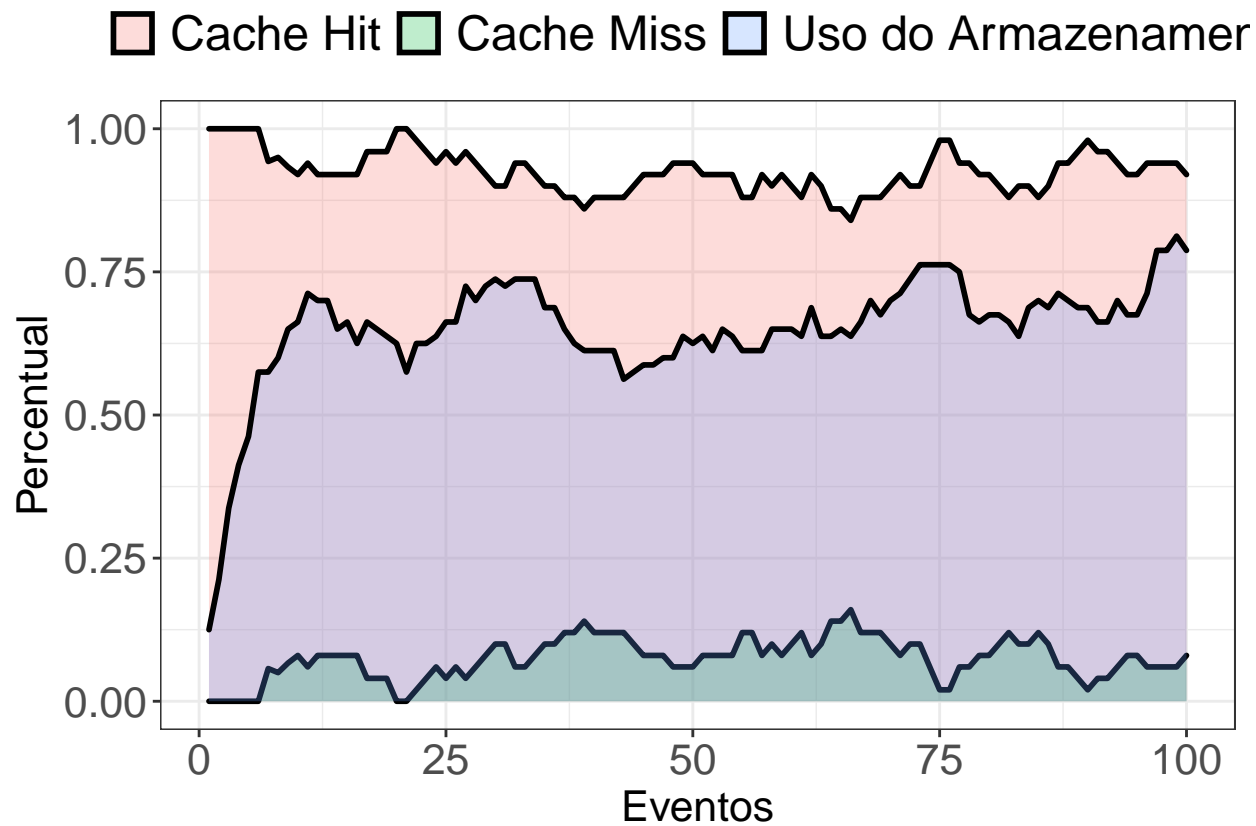
Distribuição de popularidade do conteúdo solicitado.

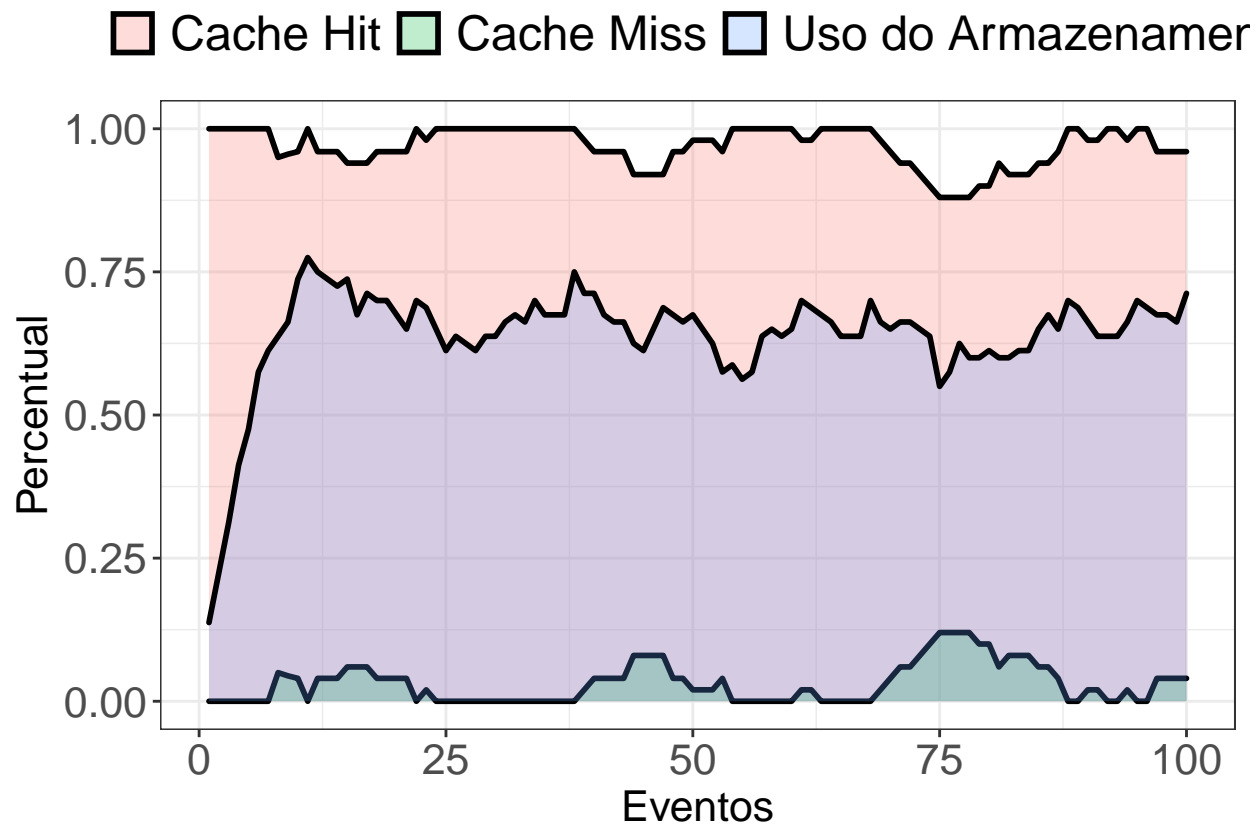


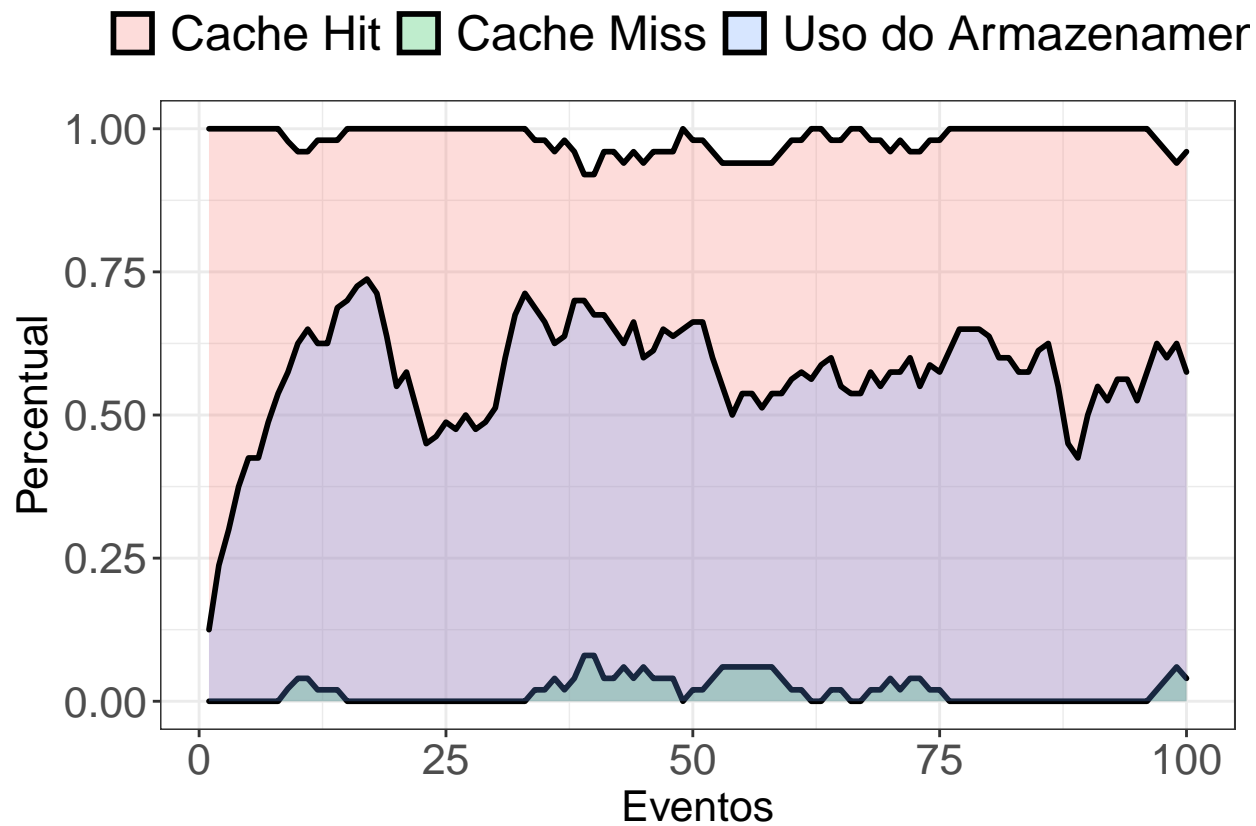
Cache, Cloud e Storage.

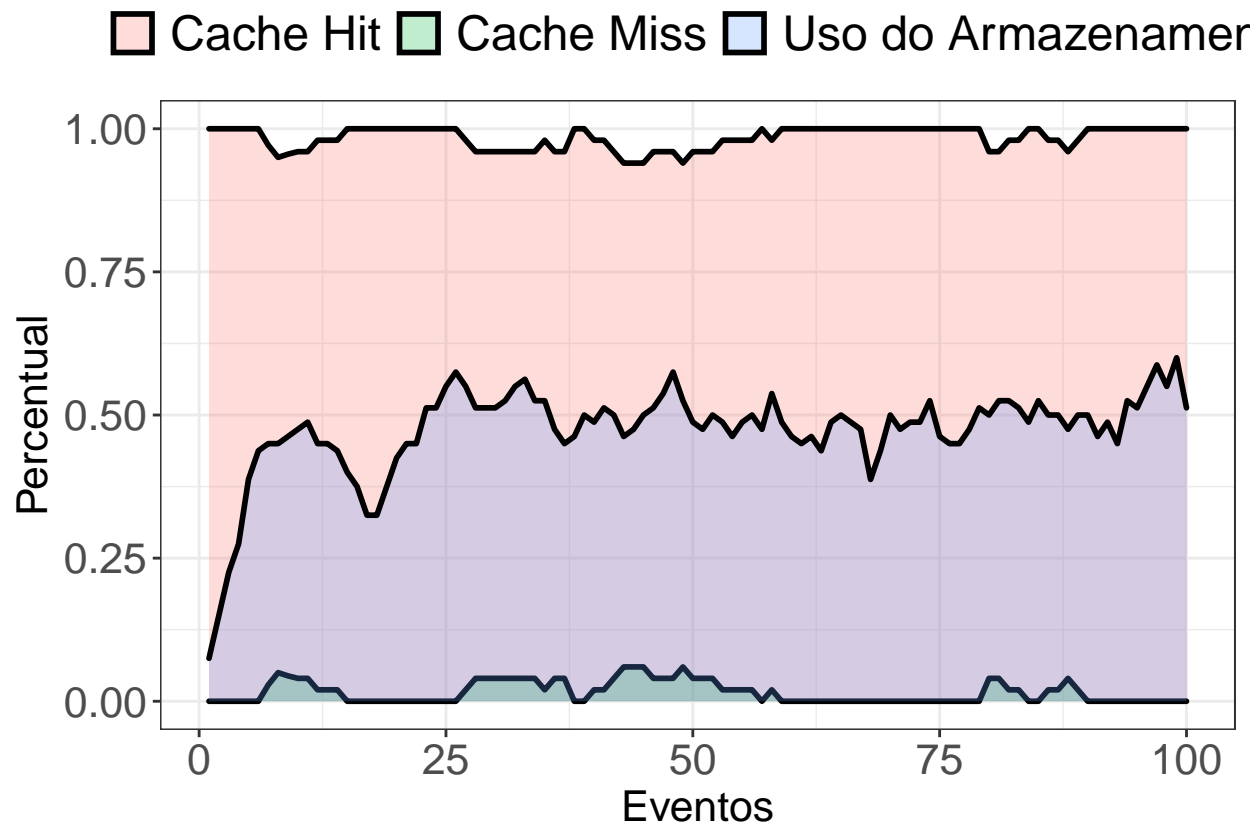
```
## Saving 6.5 x 4.5 in image
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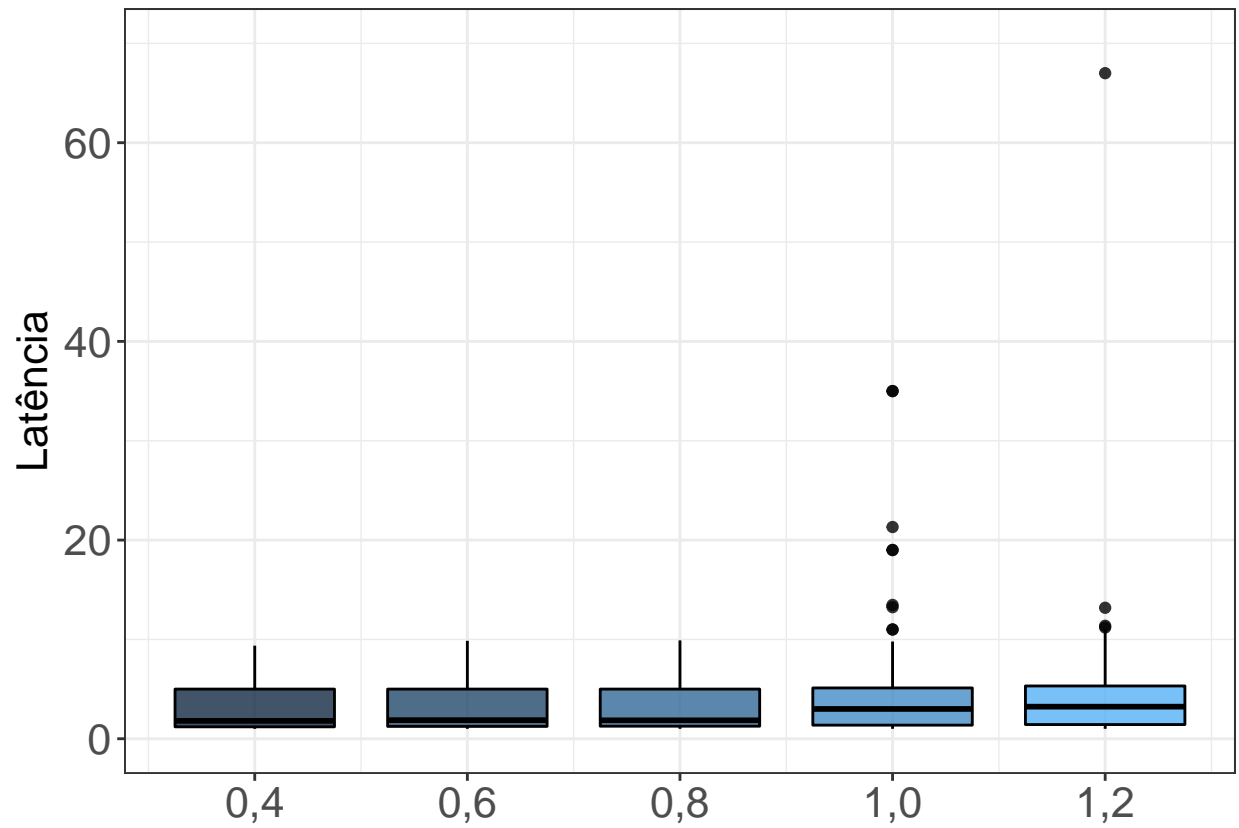












```
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```

Correlação entre proporções e variação de α

```
## [1] "Storage Load"
```

```
## [1] NA
```

```
## [1] "Cache Hit"
```

```
## [1] 0.6461641
```

```
## [1] "Cache Miss"
```

```
## [1] -0.6461641
```

Correlação entre a latência e variação de α

```
## [1] 0.1206276
```

```
##      Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
##      1.000   1.200   1.800   2.802   5.000   9.371
```



```
##    0%   25%   50%   75%  100%
## 1.000 1.200 1.800 5.000 9.371
```

```
##    95%
## 5.943
```

```
##    Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
## 1.000  1.243   1.871   2.983   5.000   9.857
```

```
##    0%   25%   50%   75%  100%
## 1.000 1.243 1.871 5.000 9.857
```

```
## 95%
##    7
```

```
##    Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
## 1.000  1.264   1.857   2.951   5.000   9.900
```

```
##    0%   25%   50%   75%  100%
## 1.000 1.264 1.857 5.000 9.900
```

```
## 95%
##    7
```

```
##    Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
## 1.000  1.371   3.000   3.286   5.114  35.000
```

```
##    0%   25%   50%   75%  100%
## 1.000 1.371 3.000 5.114 35.000
```

```
## 95%
##    7
```

```
##    Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
## 1.000  1.429   3.229   3.564   5.314  67.000
```

```
##    0%   25%   50%   75%  100%
## 1.000 1.429 3.229 5.314 67.000
```

```
##    95%
## 7.214
```

Máximos

```
## [1] 0.18
```

```
## [1] 0.82
```

```
## [1] 0.8125
```

```
## [1] 0.06

## [1] 0.94

## [1] 0.6

## [1] 0.84

## [1] 0.88

## [1] 0.16

## [1] 0.12

## [1] "Media e SD:"

## [1] 0.084872

## [1] 0.03949072

## [1] 0.01543

## [1] 0.01914349

## [1] 0.704

## [1] 0.1062724

## [1] 0.473375

## [1] 0.0784488

## [1] "zipf médios"

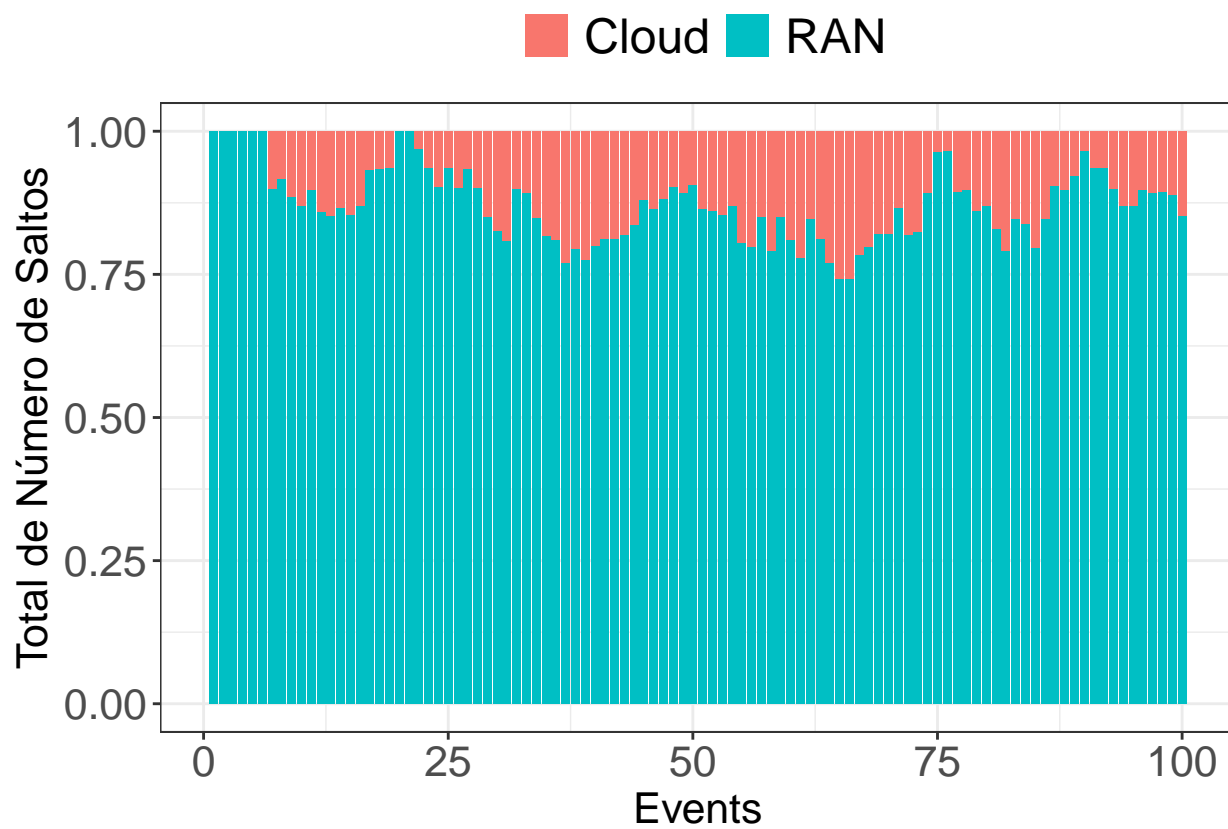
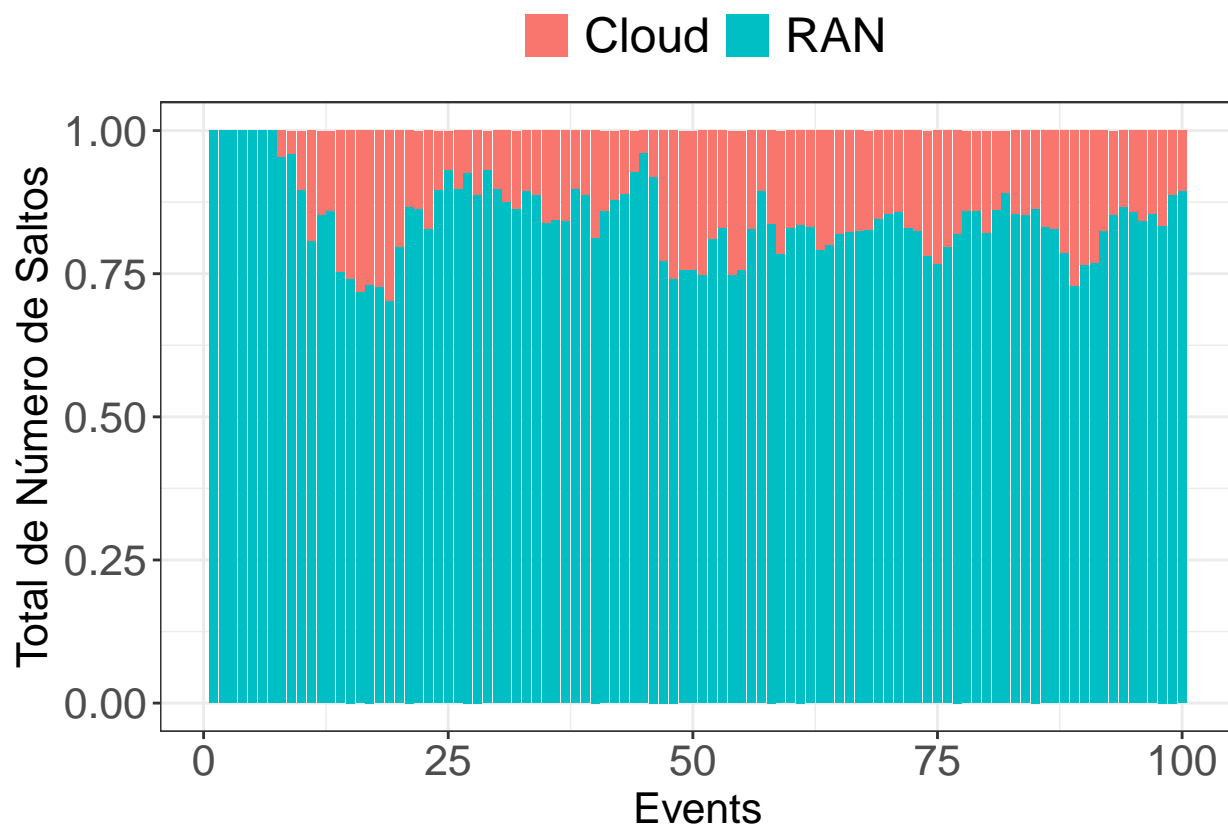
## [1] 0.16

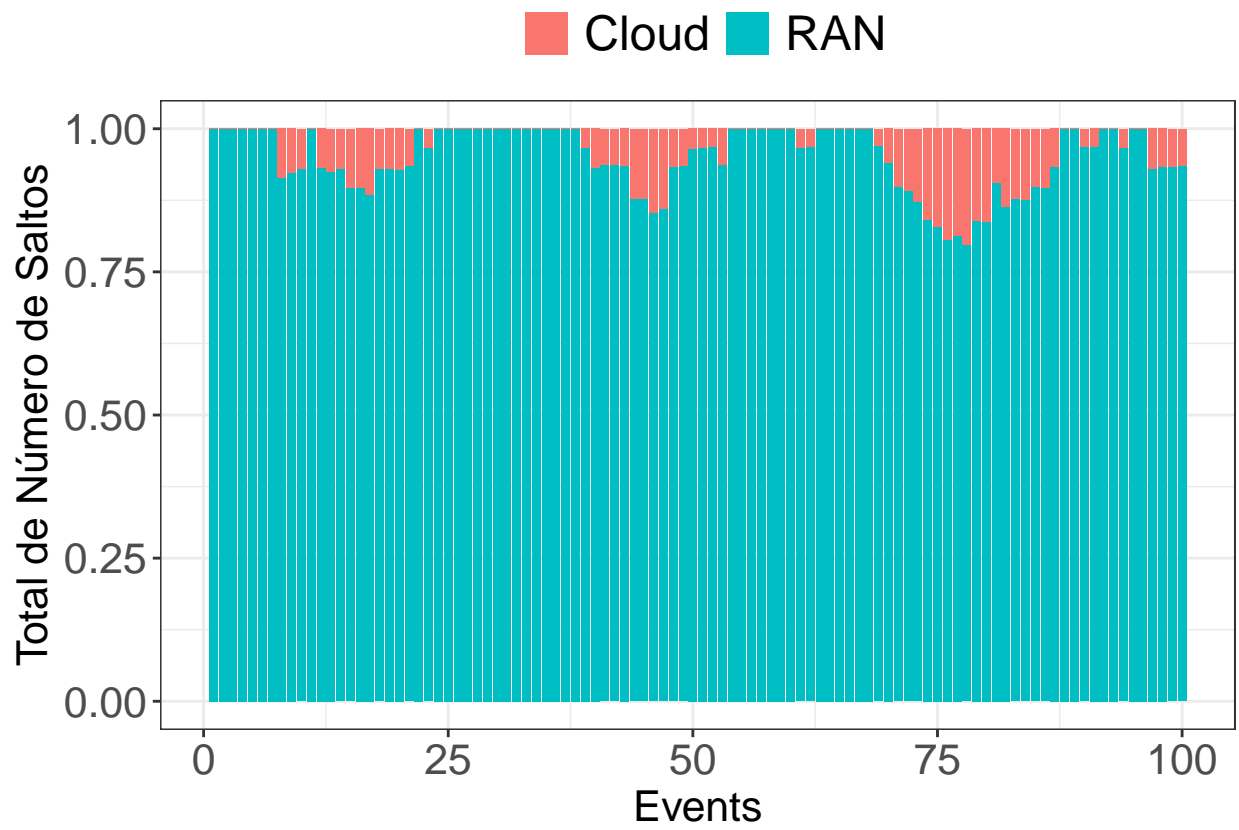
## [1] 0.84

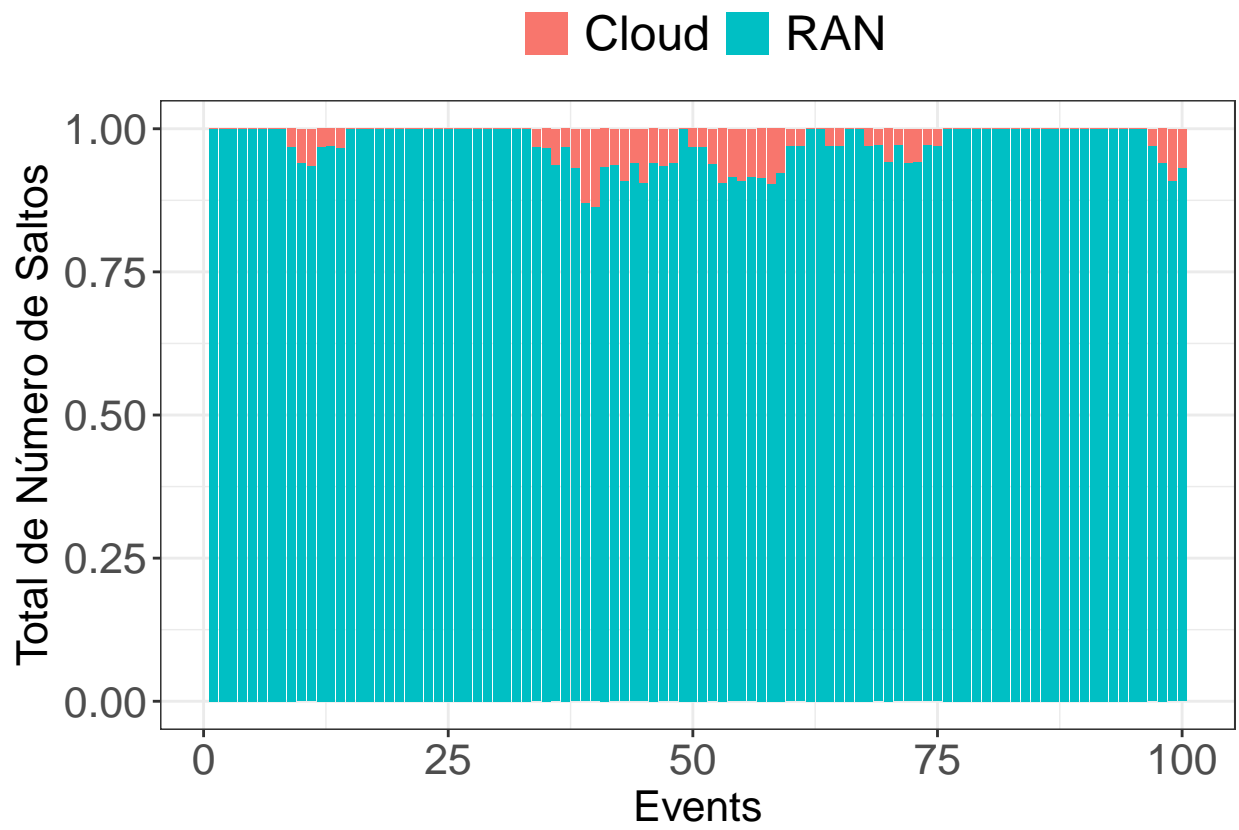
## [1] 0.12

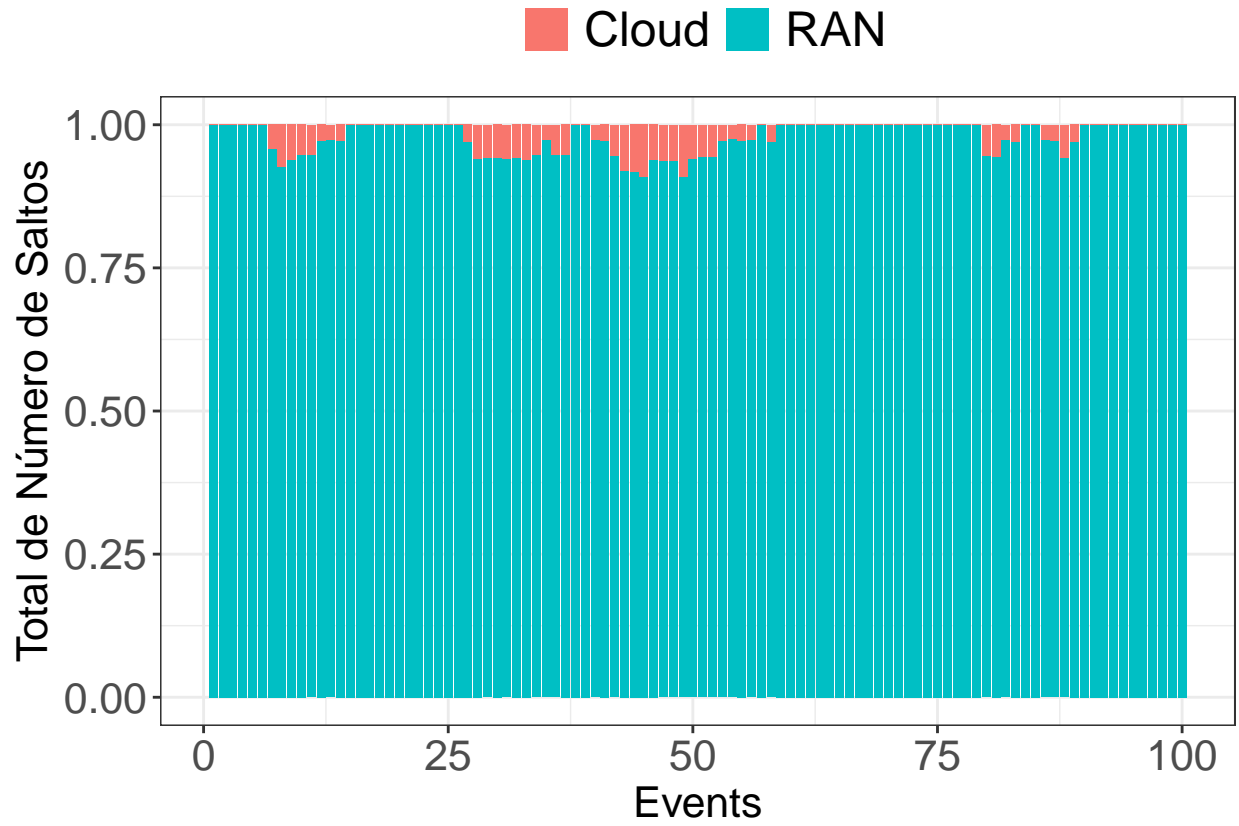
## [1] 0.88
```

Somatório de Saltos por Evento - Fronthaul vs Backhaul



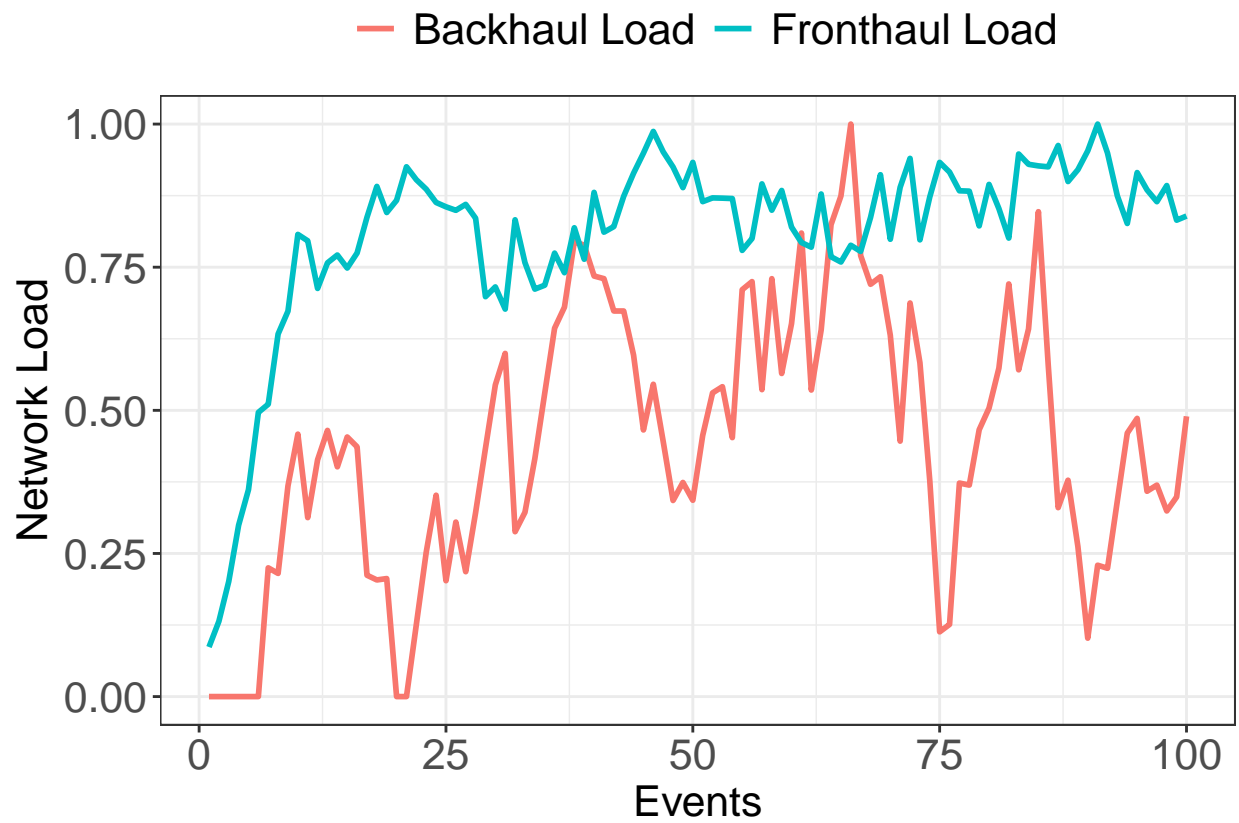
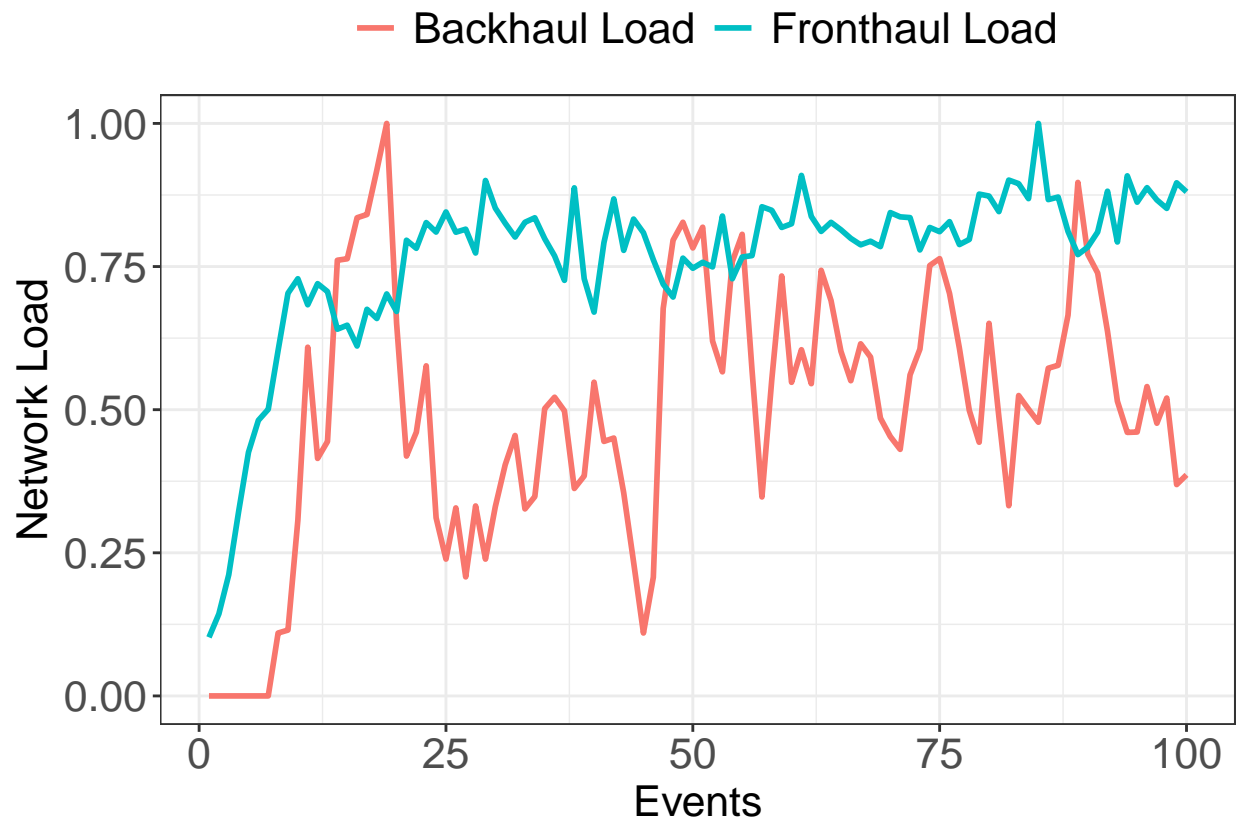


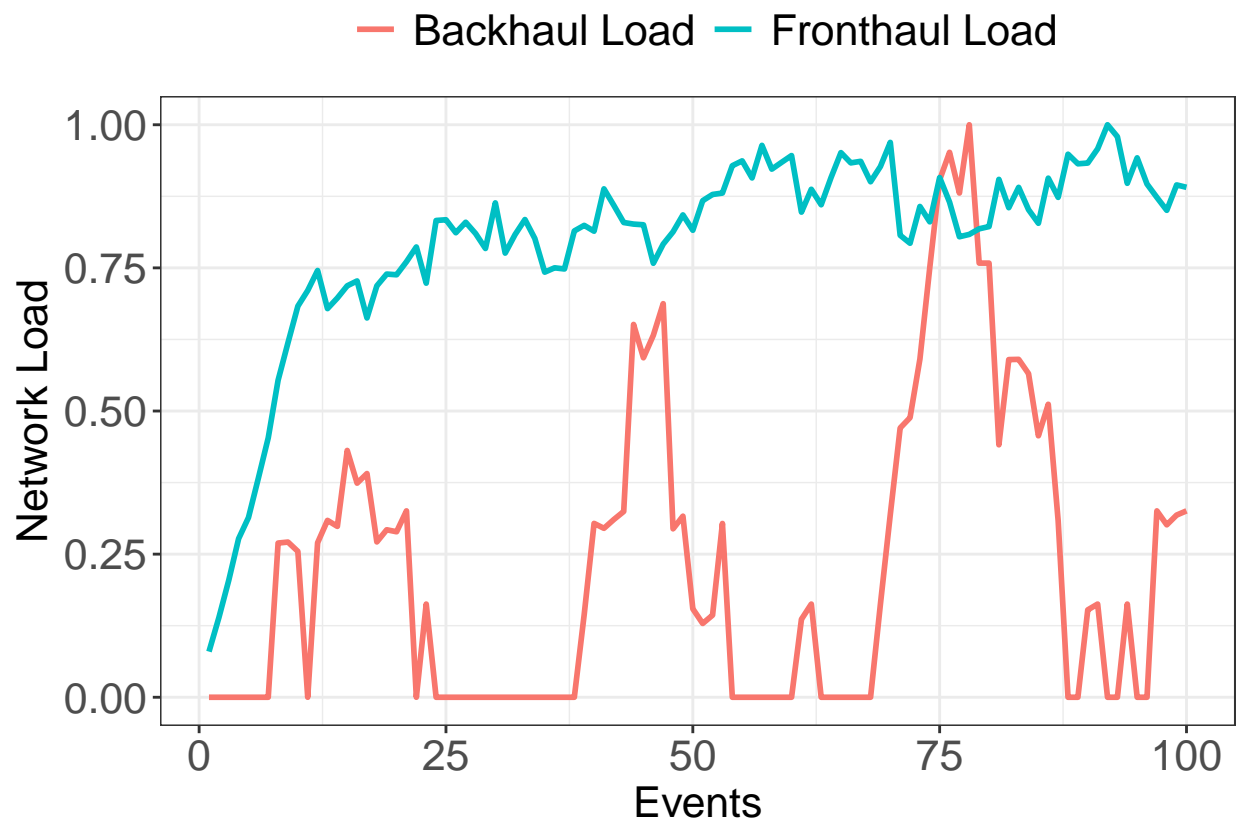


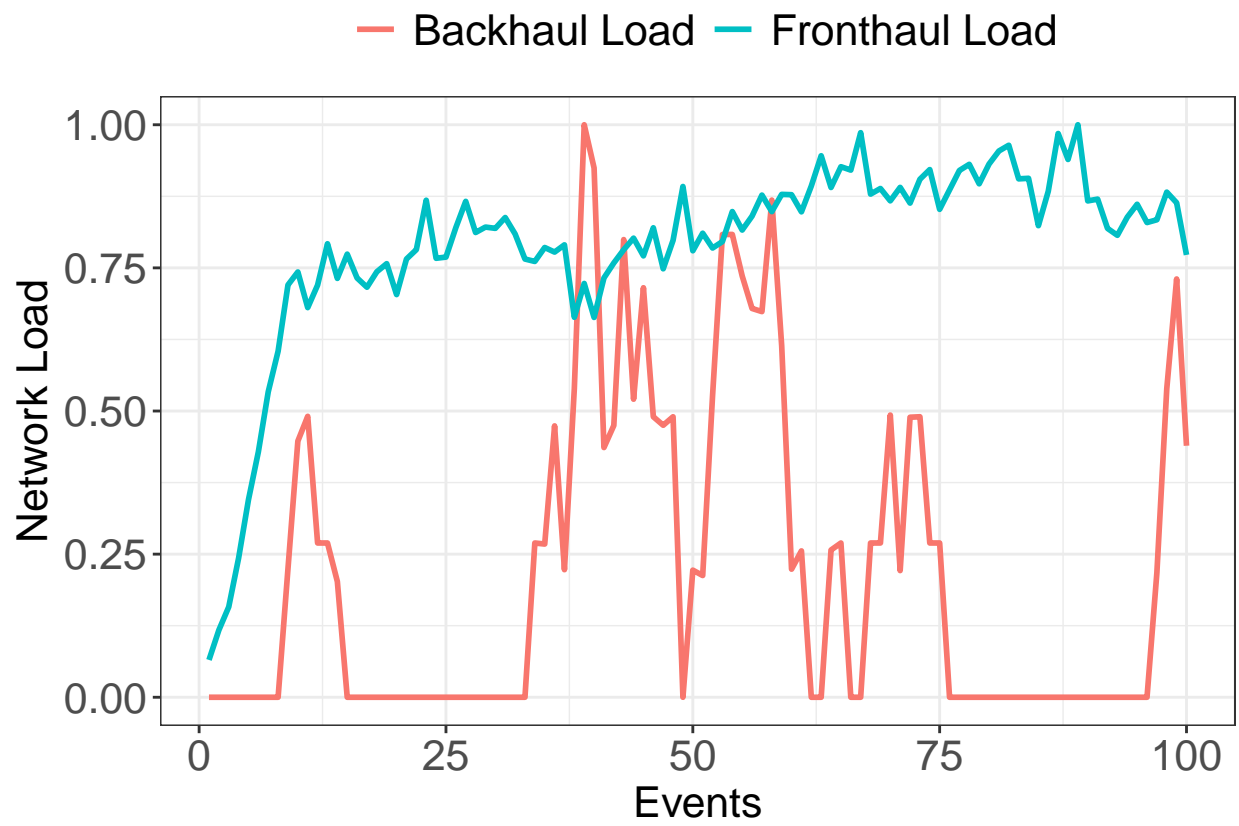


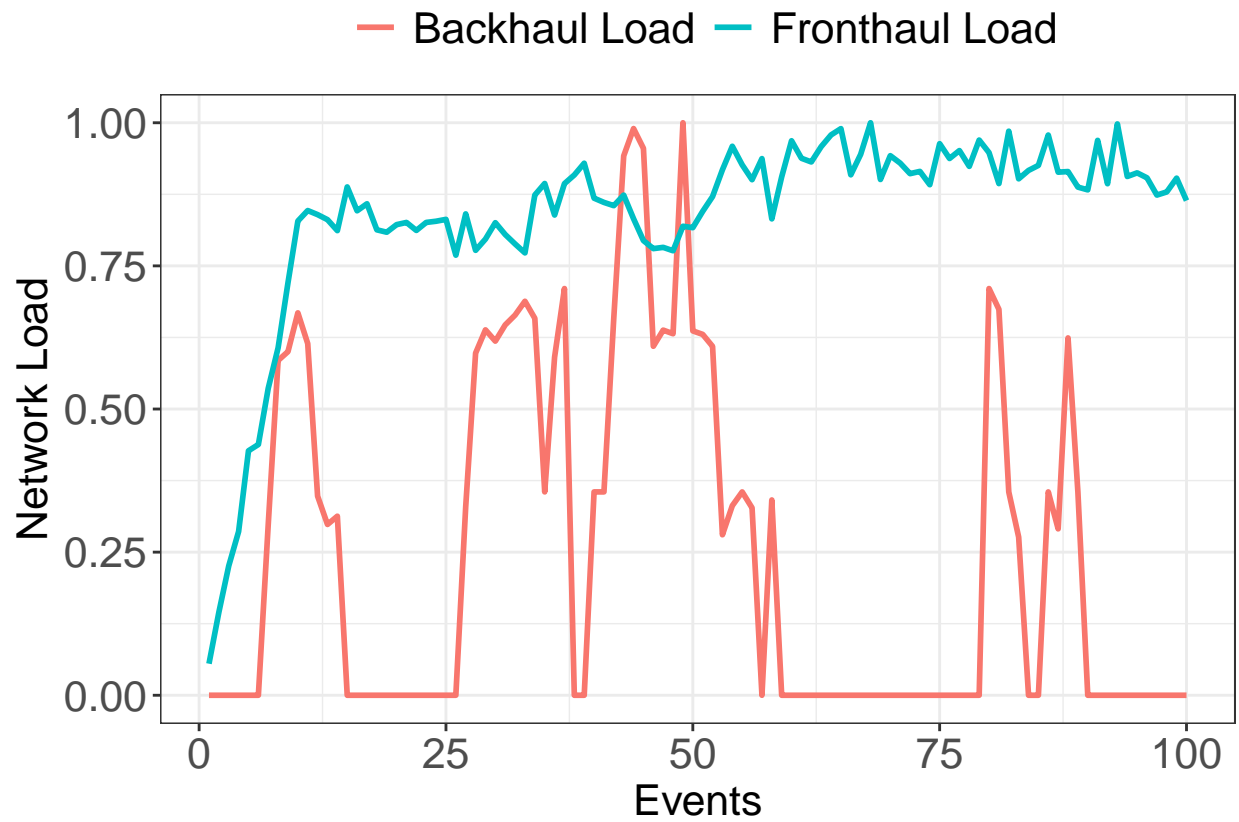
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Network Load - Fronthaul vs Backhaul









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