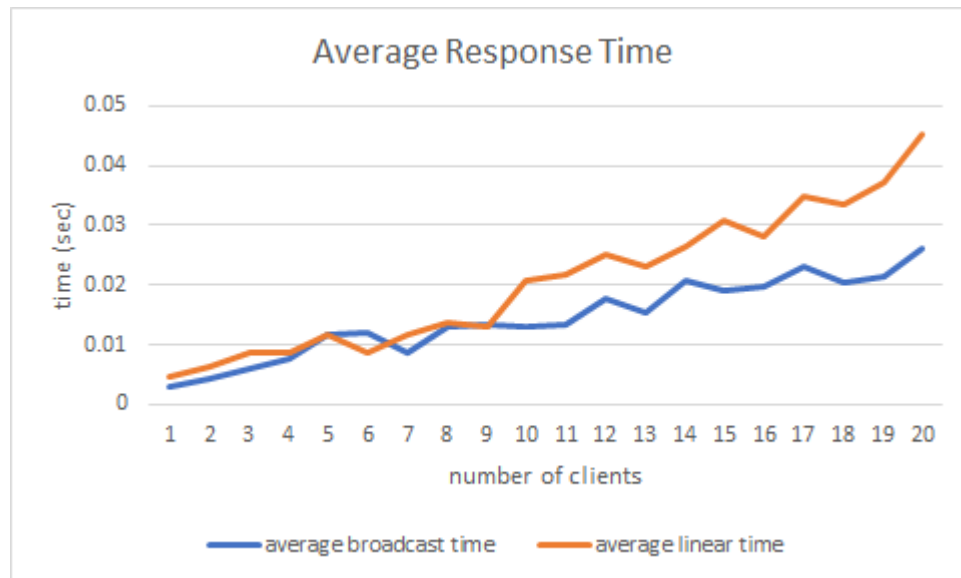# Performance

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As the linear topology scales out with more clients, it sees a more rapid increase in hit latency as opposed to broadcasting.

```
read.csv(file="C:\\Users\\abuch\\Desktop\\pa2Performance.csv", header=TRUE, sep=",")
```

```
##    number.of.peers average.broadcast.time average.linear.time
## 1                1            0.003104271         0.004662510
## 2                2            0.004398423         0.006465371
## 3                3            0.005844520         0.008708659
## 4                4            0.007732692         0.008680649
## 5                5            0.011786133         0.011786312
## 6                6            0.012147238         0.008789999
## 7                7            0.008731082         0.011802194
## 8                8            0.012912617         0.013870866
## 9                9            0.013502754         0.012972223
## 10              10            0.012983419         0.020728492
## 11              11            0.013450920         0.021828829
## 12              12            0.017722694         0.025008348
## 13              13            0.015534873         0.023128811
## 14              14            0.020896794         0.026552574
## 15              15            0.019208042         0.030905642
## 16              16            0.019652865         0.028007344
## 17              17            0.022969744         0.034784564
## 18              18            0.020439629         0.033403004
## 19              19            0.021314650         0.037356337
## 20              20            0.026008915         0.045124553
```