

# HW3

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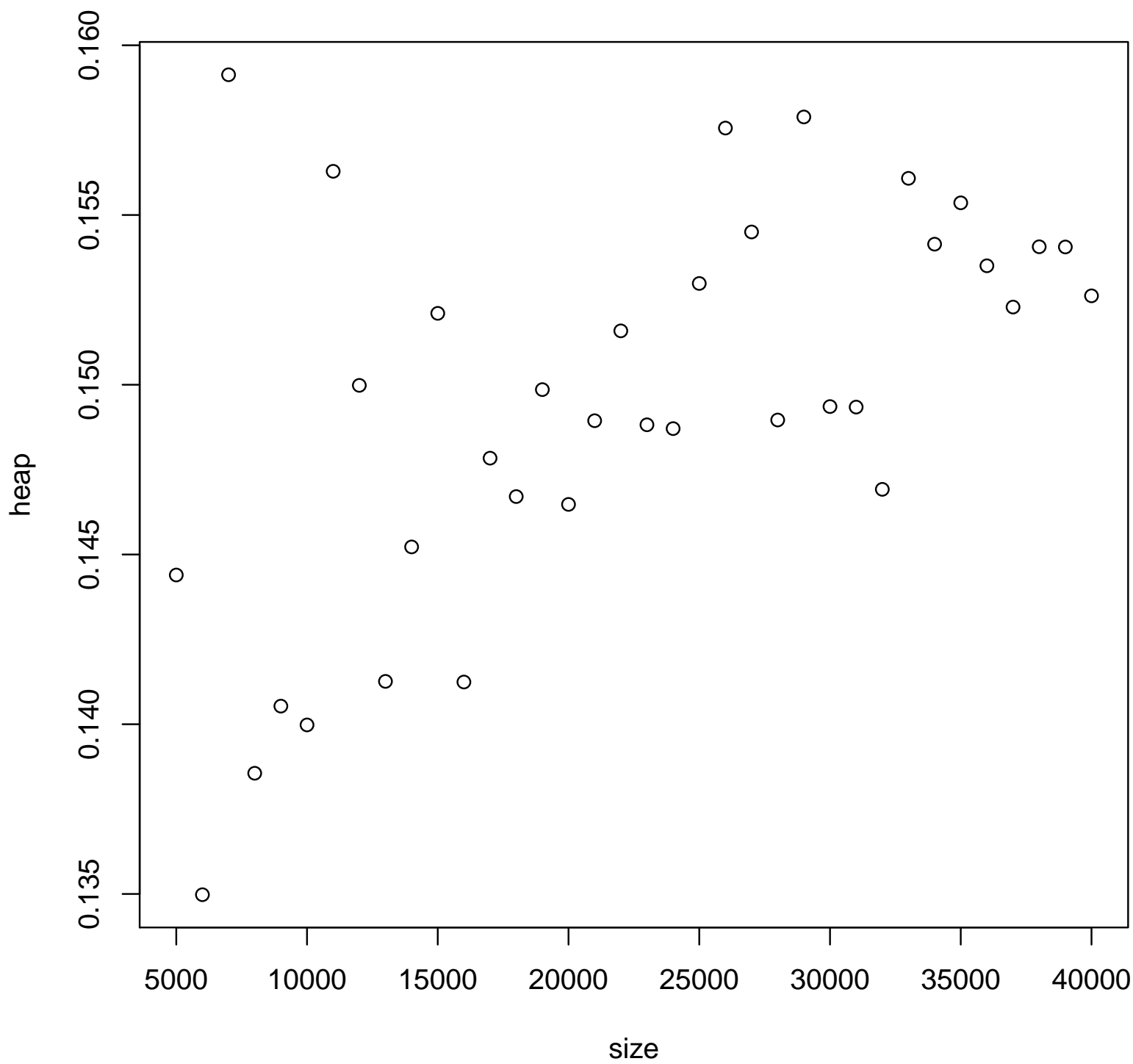
## 1. Introduction:

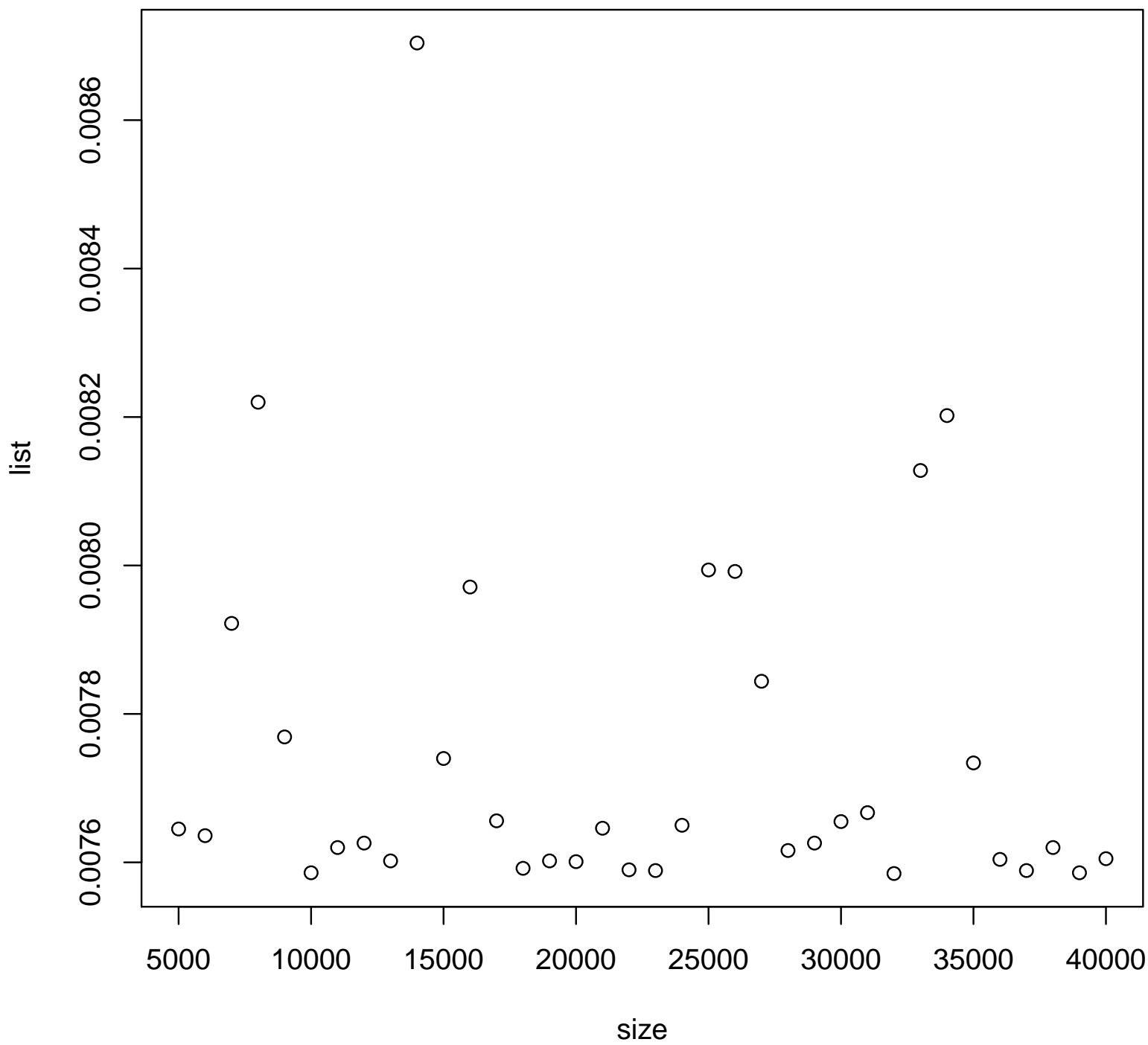
This software simulates the operation of a north-south-one-lane bridge, whose capacity , as well as the north and south input buffers (queues) are in theory  $+\infty$ . When one side ends traversing the bridge, the other side starts traversing if cars are present in queue, otherwise, the same side starts traversing, if cars are present in queue. The model is implemented using Event Scheduling based Discrete Event Simulation.

## 2.

0, 0  
0.500000  
4, 4  
1.000000  
7, 7  
1.000000  
12, 12  
2.000000  
15, 15  
2.300000  
16, 16  
3.000000  
18, 18  
3.000000  
19, 19  
3.500000  
18, 18  
4.000000  
22, 22  
4.000000  
21, 21  
4.000000  
20, 20  
5.000000  
19, 19  
5.300000  
18, 18  
6.000000  
17, 17  
6.000000  
16, 16  
6.000000  
19, 19

6.500000  
18, 18  
7.000000  
17, 17  
7.000000  
16, 16  
7.000000  
15, 15  
8.000000  
14, 14  
8.300000  
13, 13  
9.000000  
12, 12  
9.000000  
11, 11  
9.000000  
10, 10  
9.500000  
9, 9  
10.000000  
8, 8  
10.000000  
7, 7  
10.000000  
6, 6





avg\_runtime \* 100000

0.15

0.10

0.05

5000

10000

15000

20000

25000

30000

35000

40000

size

