The table below provides blocking probabilities for an M/M/1/K system for different loads and system sizes (K), e.g., a load of 0.5 and a system size of 2 had a blocking probability of 14.2857%.

Load =	0.25	0.3	0.35	0.4	0.45	0.5
N	% Blocking	% Blocking	% Blocking	% Blocking	% Blocking	% Blocking
1	20.0000%	23.0769%	25.9259%	28.5714%	31.0345%	33.3333%
2	4.7619%	6.4748%	8.3192%	10.2564%	12.2542%	14.2857%
3	1.1765%	1.9054%	2.8293%	3.9409%	5.2262%	6.6667%
4	0.2933%	0.5684%	0.9806%	1.5519%	2.2977%	3.2258%
5	0.0733%	0.1702%	0.3420%	0.6169%	1.0234%	1.5873%
6	0.0183%	0.0510%	0.1196%	0.2462%	0.4584%	0.7874%
7	0.0046%	0.0153%	0.0418%	0.0984%	0.2059%	0.3922%
8	0.0011%	0.0046%	0.0146%	0.0393%	0.0926%	0.1957%
9	0.0003%	0.0014%	0.0051%	0.0157%	0.0416%	0.0978%
10	0.0001%	0.0004%	0.0018%	0.0063%	0.0187%	0.0489%
11	0.0000%	0.0001%	0.0006%	0.0025%	0.0084%	0.0244%
12	0.0000%	0.0000%	0.0002%	0.0010%	0.0038%	0.0122%
13	0.0000%	0.0000%	0.0001%	0.0004%	0.0017%	0.0061%
14	0.0000%	0.0000%	0.0000%	0.0002%	0.0008%	0.0031%
15	0.0000%	0.0000%	0.0000%	0.0001%	0.0003%	0.0015%
16	0.0000%	0.0000%	0.0000%	0.0000%	0.0002%	0.0008%
17	0.0000%	0.0000%	0.0000%	0.0000%	0.0001%	0.0004%
18	0.0000%	0.0000%	0.0000%	0.0000%	0.0000%	0.0002%
19	0.0000%	0.0000%	0.0000%	0.0000%	0.0000%	0.0001%
20	0.0000%	0.0000%	0.0000%	0.0000%	0.0000%	0.0000%