

Lehrstuhl für Simulation

Introduction to Simulation

Assignment 3: Adding a Second Counter in the Bank

- 1. Start from the model of the single-server queue in the bank, which you can download from the ItS website.
- 2. Simulate the model up to (at least) T=10000.
- 3. What is the average queue length?
- 4. What is the probability that the server is busy?
- 5. Add a second server to the model whose characteristics are identical to those of the original server.
- 6. If you were not careful when designing your model, you will get a run-time error when you start the simulation.
 - If you got an error: What has gone wrong, and why? Suggest two different solutions to this problem and implement one of them.
 - If your simulation ran first time: What did you add to the model, and why? Is this realistic? Can you think of an alternative modification?
- 7. What is the average queue length now?
- 8. What is the probability that each of the two servers is busy now?