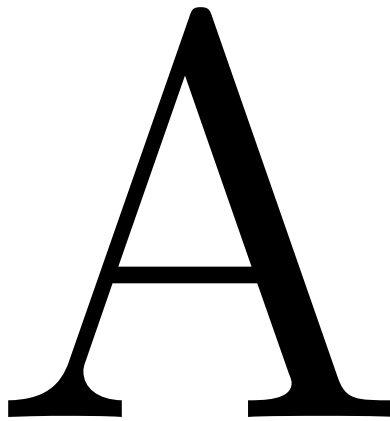Course SE 350
Quiz IIIa

March 31, 2010

1. What material did you mainly use to prepare for the quiz? There only exist correct answers to this question. Please choose one: Electronic version of Stalling's book, printed version of Stalling's book, another book, lecture slides, own notes, nothing. *[1p]*

2. Describe a user oriented performance criterion for scheduling processes.   *[3p]*

3. Describe how a deadlock can occur, if the operating system doesn't provide I/O buffers for processes.   *[3p]*

4. The I/O subsystem receives the following track read requests: 48, 105, 148, 27, and 52. The current location is 100 and the previously read track was 101. Schedule the I/O using FIFO. Show the access behaviour in a figure with time on the x-axis and the track number on the y-axis. The disk's read head moves 3 tracks per mm on the x axis.   *[5p]*

5. Describe which of the two metrics is more important for simulation systems: throughput or meeting timing deadlines? Justify it in one to two sentence.   *[2p]*

End of quiz. Total points: 14

A

Quiz guide: The exam consists of 3 questions listed on one page. The exam's total number of points is listed at the end. The quiz duration is 15 minutes. Note make sure you don't have the same quiz ID as any of your neighbours. If you have, say so immediately. **If you don't, you invalidate your score.**