

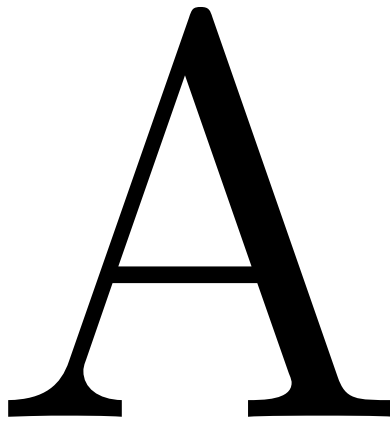
COURSE ECE354

## Quiz I

June 2, 2009

1. What material did you use to prepare for the quiz? There only exist correct answers to this question. Please list a selection of (or specify other): Stalling's book, another book, lecture slides, own notes, nothing. [1p]
2. What is the main purpose of an operating system? [5p]
3. Name the key advantages/disadvantages of the following I/O communication techniques: programmed I/O and interrupt-driven I/O. [5p]
4. Can the operating system preempt the user process that called a system function while it is in the system call in a process-based operating system? Explain. [5p]
5. Explain the term race condition and provide a code example and description that demonstrate the problem. [7p]
6. How many data registers and address registers do MCF5307 have? Which address register functions as the stack pointer? [4p]

End of quiz. Total points: 27



Quiz guide: The exam consists of 6 questions listed on one page. The exam's total number of points is listed at the end. The quiz duration is 20 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.**