

COURSE ECE354 REAL-TIME OPERATING SYSTEMS

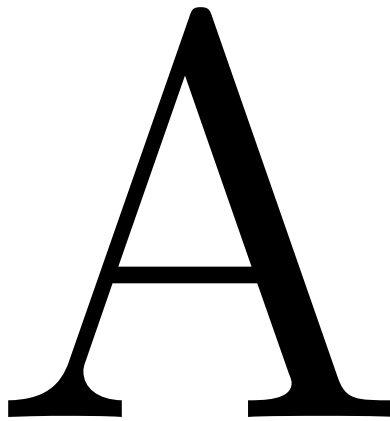
## Quiz IA

May 31, 2010

Be concise, short, and to the technical point in your answers. Otherwise, you will be unable to answer all questions in time.

1. What material did you **mainly** use to prepare for the quiz? Pick only one;  
any selection will get you full points. [2p]  
☐Printed book   ☐Electronic book   ☐Own notes on slides   ☐Abstain
2. What is a context switch? Why does the program status word need to be conserved between context switches? Give an annotated pseudo-code example that demonstrates what can go wrong. [10p]
3. What is the difference between an *interrupt* and an *trap*? [4p]
4. Provide two reasons (and a one sentence example for each reason) why multi-programming can be beneficial over uniprogramming. [6p]

End of quiz. Total points: 22



Quiz guide: The exam consists of 4 questions listed on one page. The exam's total number of points is listed at the end. The quiz duration is 16 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 will invalidate your score.**