Institut for Matematik og Datalogi
Syddansk Universitet

September 18, 2006
JFB

Introduction to Computer Science
E06 – Lecture 4

Lecture, September 12

We finished chapters 1 and 2. We covered through section 3.2 of chapter 3.

Lecture, September 15

We will finish through section 3.4 of chapter 3 (section 3.5, along with section 4.5, will be postponed until we talk about security and cryptology later in the course) and start on chapter 5.

Lecture, September 19

During the first hour, I will lecture on algorithms from chapter 5, probably covering through section 5.3. During the second hour, Peter Kornerup will lecture on networks from chapter 4.

Discussion section: week 38

Discuss the following problems from the textbook in groups of three or four.

1. Page 82: Problem 2.
2. Page 86: Problems 1, 2, 5, 6.
3. Page 150: Problem 3.
4. Page 154: Problems 1, 2, 4.
5. Page 158–161: Problems 13, 21, 22, 31, 34, 36a, 38.

6. Pages 161: 1, 2, 3.
7. All the questions on page 196 of the textbook.

Assignment due 8:15, September 26

Late assignments will not be accepted. Working together is not allowed. (You may write this either in English or Danish, but write clearly if you do it by hand.) Where relevant, show how you obtained your answers (for the second and third, explain how, in addition to saying which condition is removed).

1. Decode the following message using the error-correcting code presented in Figure 1.29 in the textbook:

   111000 000110 001000 011110

2. Do problem 30 on page 159.
3. Do problem 32 on page 160.
4. Do problem 36b on page 160.