



## Operating Systems 2011/12 Assignment 0

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**Submission Deadline: Tuesday, October 29th, 2013 – 17:00**

A new assignment will be published roughly every two weeks, right after the last one was due. It must be handed in before its submission deadline.

Please print out the pages containing **T-Questions** and answer them on your printout. Clearly mark every page with your name, matriculation number, and **tutorial number**. Simply put it in the mailbox in the basement of building 50.34 (Info-Neubau). Only submit this assignment after you have been assigned your tutorial number by WebInScribe!

**P-Questions** are programming assignments. You will find them on the following assignments, together with submission instructions.

The main purpose of this assignment 0 is for you to get an access code for WileyPLUS. You need that code for access to the electronic version of the textbook we use for the lecture, so make sure to submit this assignment!

The submission deadline of future assignments will be earlier, typically at 9 a.m., before the "Tafelübung".

**Any assignment handed in after its deadline will be ignored!**

### T-Question 0.1: Basics

- a. Hexadecimal is useful as a compact representation of large numbers when you care about the individual bits in their binary representation. Therefore, OS people prefer it for data such as addresses, instruction words, and the value of status or control registers.

Write the last two digits of your matriculation number in binary code, once when you interpret them as decimal and once when you interpret them as hexadecimal. Then decide for yourself which transformation was easier:

**1 T-pt**

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- b. Calculating the bit-wise XOR of `0xb01dface` and `0xf01dable` results in

**1 T-pt**

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**Total:  
2 T-pt  
0 P-pt**