



Exercise Sheet 7: Transaction Processing 2 (until Friday 18.07.2014)

Exercises will be discussed on **Friday** on week after the respective lecture was given. The handouts are optional and do not have to be handed in. They only serve as optional preparation for the oral exams at the end of the semester.

Exercise 1

Given two schedules:

$r_2(z) \ r_2(y) \ w_2(y) \ r_3(y) \ r_3(z) \ r_1(x) \ w_1(x) \ w_3(y) \ w_3(z) \ r_2(x) \ r_1(y) \ w_1(y) \ w_2(x)$

$r_3(y) \ r_3(z) \ r_1(x) \ w_1(x) \ w_3(y) \ w_3(z) \ r_2(z) \ r_1(y) \ w_1(y) \ r_2(y) \ w_2(y) \ r_2(x) \ w_2(x)$

Apply and visualize the altruistic locking algorithm for both schedules. Can the schedule be executed?

Exercise 2

- Why is overload control important?
- What are optimistic protocols?
- Explain the concept of isolation levels. Give an example for each of them.