Universität Koblenz-Landau

FB 4 Informatik

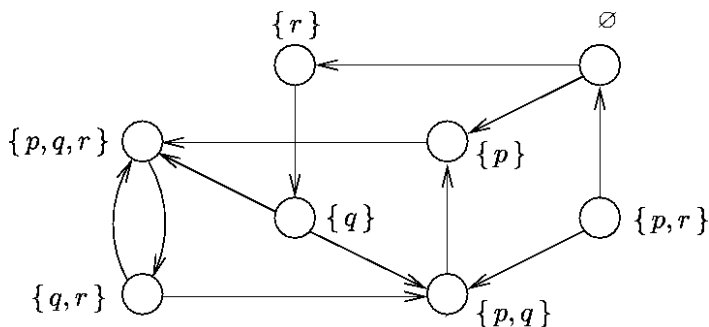**Prof. Dr. Viorica Sofronie-Stokkermans**   **July, 3 2014**

Exercises for "Formal Specification and Verification"
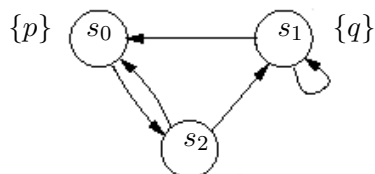**Exercise sheet 6**

Exercise 6.1:
Consider the following transition system:

Compute $sat(E(p\mathcal{U}q))$.

Exercise 6.2:
Consider the following transition system:

- Compute $sat(E(q\mathcal{U}p))$.

- Apply the algorithm presented in the lecture from Tue, 8.07.14 – using OBDDs in the ordering [p, q] to represent sets of states and transitions – to compute the set of states of this transition system which satisfy $E(q\mathcal{U}p)$.

Please submit your solution until Wednesday, July 9, 2014 at 11:00. Please do not forget to write your name on your solution.

Submission possibilities:

- By e-mail to `sofronie@uni-koblenz.de` with the keyword "Homework FSV" in the subject.

- Hand it in to me (Room B225) or drop it in the box in front of Room B224.