Universität Koblenz-Landau

FB 4 Informatik

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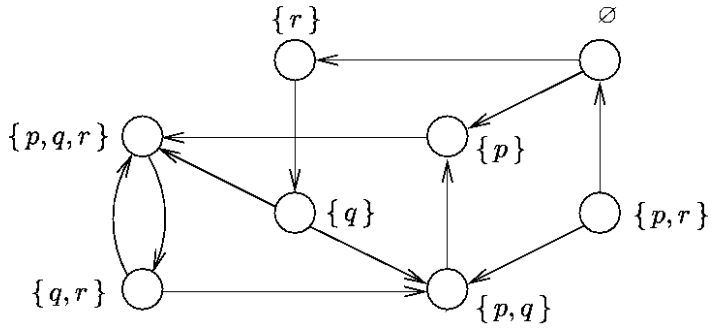
June 27, 2012

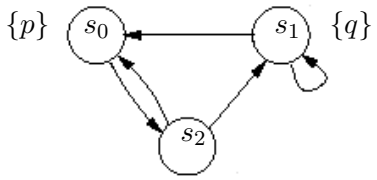
Exercises for "Formal Specification and Verification"
Exercise sheet 8

Exercise 8.1:
Consider the following transition system:



Compute $sat(E(\top \mathcal{U}((p \leftrightarrow r) \wedge (p \not\leftrightarrow q))))$.

Exercise 8.2:
Consider the following transition system:



Apply the algorithm presented in the lecture – 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 4, 2012 at 11:00. 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.