

## Development of Safety-Critical Embedded Systems WS 2012/2013

### Exercise Sheet 7

Please send your solutions to [jherter@cs.uni-saarland.de](mailto:jherter@cs.uni-saarland.de) or directly to your tutor until Fri. 2012-02-01, 10:00. Solutions submitted later will not be accepted.

#### **Exercise 7.1: Non-Available Expression Analysis (Points: 6)**

Implement a non-available expressions analysis, that computes not the *available expressions* at program points but the (*possibly non-available expressions*), using PAG/WWW.

#### **Exercise 7.2: Sign Analysis, Revisited (Points: 8)**

Implement a sign analysis using PAG/WWW.

#### **Exercise 7.3: Faint Variables Analysis, Revisited (Bonus Points: 8)**

Implement a faint variables analysis using PAG/WWW.