

Integration of Event-Driven Embedded Operating Systems into OMNeT++ A Case Study with REFLEX

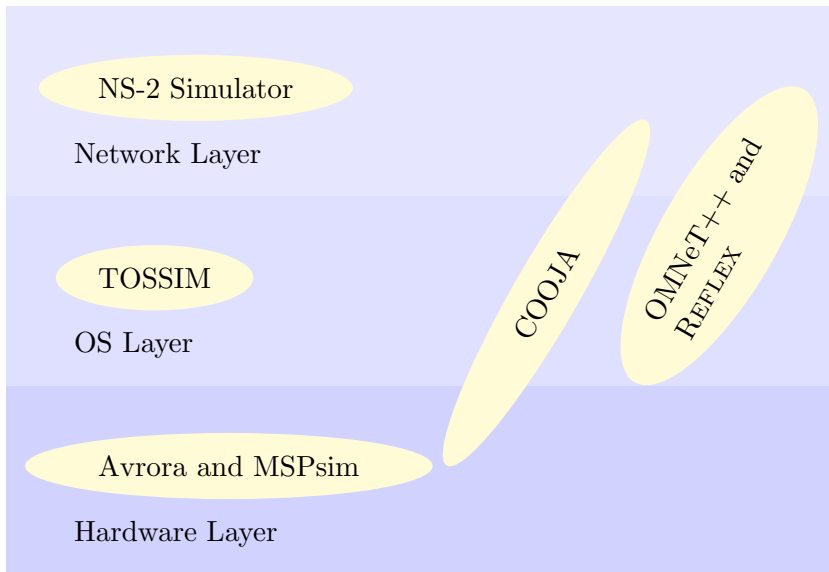
Sören Höckner, Andreas Lagemann and Jörg Nolte

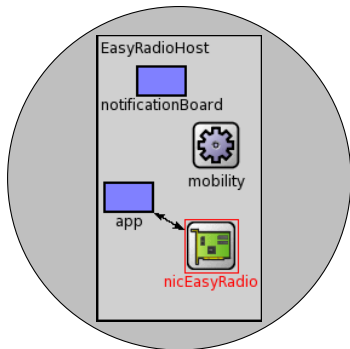
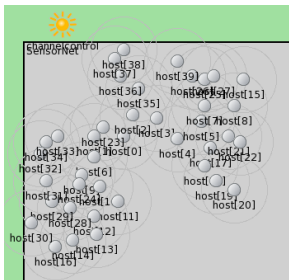
Brandenburg University of Technology Cottbus

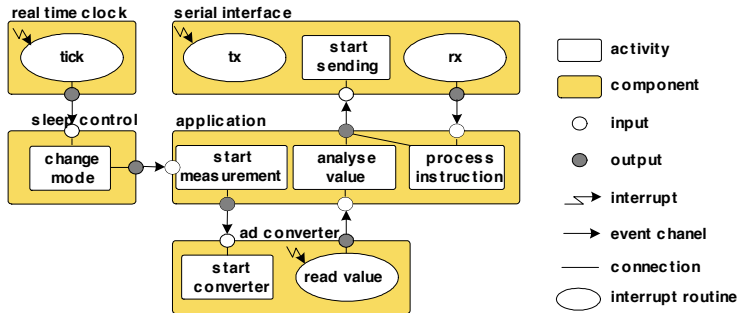
06.03.2009

- WSN are inherently event driven (Typical applications: *sense and send* or *monitoring*)
- Evaluation and testing on a single node basis is impossible
- Simulation of Algorithms on an abstract layer is not sufficient: implementation is not evaluated
- Simulation must provide means to evaluate the actual implementation
- OMNeT++ provides flexibility and a great amount of ready-to-use modules
- Integration of operating system (REFLEX) into discrete event simulator (OMNeT++)

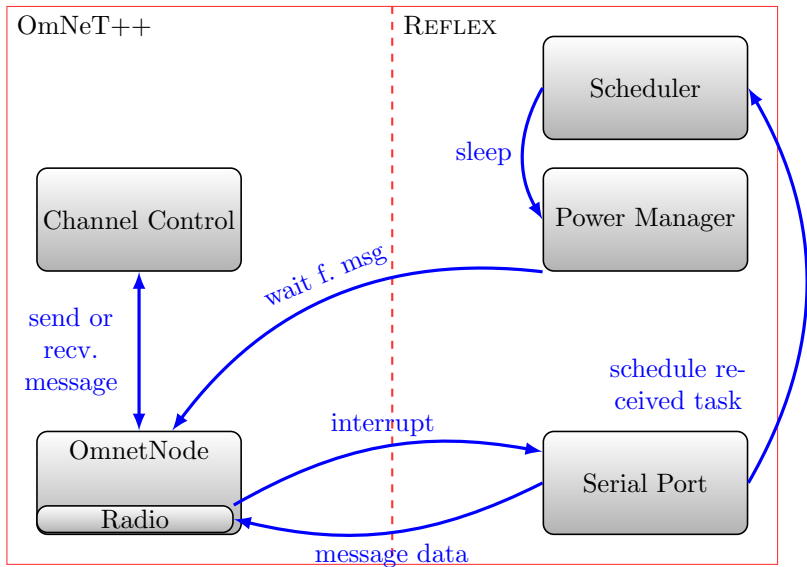
Wireless Sensor Network Simulators







REFLEX for OMNeT++



Interaction of REFLEX and OMNeT++

