SED Lectures 15
Non Object-Oriented Design Methods

Objectives

To be aware of some common non-object-oriented design methods (data oriented, event oriented, functional and top-down) and the types of design problems which they are suitable for.

Key Points

1. Object Oriented Design is not the only way of designing systems!
2. All design methods involve a hierarchy of decompositions which partition the design into subsystems or components.
3. 4 design methods: data oriented, event oriented, functional and top-down.
4. Case study: Embedded systems design using timed automata

Further reading

Sommerville (7th ed) 11.3 Modular Decomposition Styles, 15 Real-time Software design
Pressman (5th ed) 13 Design Concepts and Principles
Uppaal web site: http://www.uppaal.com/

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