University of Adelaide

Summary on Formal Methods I
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Structured Operational Semantics

- SOS provides a framework to give operational semantics to programming and specification languages
- Developed in the 70s and 80s from ideas by Mike Gordon, Robin Milner and Gordon Plotkin
- Used for specifying semantics of many real-life programming languages, particularly ones used for description of concurrent processes such as CCS, ACP, CSP, etc.
References


• “Compositionality of Hennessy–Milner Logic through Structural Operational Semantics” – Wan Fokkink, Rob van Glabbeek, Paulien de Wind - 14th International Symposium on Fundamentals of Computation Theory

• “Structural Operational Semantics” – Luca Aceto, Wan Fokkink, Chris Verhoef – BRICS, Centre of the Danish National Research Foundation, CS Department, Aalborg University – quite good 130 pages overview of SOS