# Why are these rule semantics useful?

- Much easier to reason about correctness of a system when you consider just one rule at a time
- No problems with concurrency (e.g., race conditions, mis-timing, inconsistent states)
  - We also say that rules are "interlocked"

→ *Major impact on design entry time and on verification time*

# Semantics For Concurrency

Samson Abramsky,Thomas S. E. Maibaum

**Semantics For Concurrency:**

   **Semantics for Concurrency** Marta Z. Kwiatkowska,Michael W. Shields,Richard M. Thomas,2013-03-14 The semantics of concurrent systems is one of the most vigorous areas of research in theoretical computer science but suffers from disagree ment due to different and often incompatible attitudes towards abstracting non sequential behaviour When confronted with process algebras which give rise to very elegant highly abstract and com positional models traditionally based on the interleaving abstraction some argue that the wealth of contribution they have made is partially offset by the difficulty in dealing with topics such as faimess On the other hand the non interleaving approaches based on causality although easing problems with fairness and confusion still lack struc ture compositionality and the elegance of the interleaving counter parts Since both these approaches have undoubtedly provided important contributions towards understanding of concurrent systems one should concentrate on what they have in common rather than the way they differ The Intemational Workshop on Semantics for Concurrency held at the University of Leicester on 23 25 July 1990 was organised to help overcome this problem Its main objective was not to be divisive but rather to encourage discussions leading towards the identification of the positive objective features of the main approaches in the hope of furthering common understanding The Workshop met with an excel lent response and attracted contributions from all over the world The result was an interesting and varied programme which was a combi nation of invited and refereed papers The invited speakers were Prof dr E Best Hildesheim University Prof dr A    *A Uniform Approach to the Semantics of Concurrency* ,1991 The role of semantics is to allow reasoning about high level programming languages through the use of models Our research focuses on two approaches to semantics Denotational Semantics and Operational Semantics and their applications to languages supporting concurrent computation In Denotational Semantics mathematical models are studied which have the same operations on them as those that are available in the language such as sequential composition and parallel composition etc and a function is defined which assigns meanings in the model to programs in the language This function should be compositional i e a homomorphism with respect to the operations of the language In this way the meaning of a complicated program is made up as the composite of the meanings of its constituent parts so the meanings of complicated programs can be understood in terms of the meanings of their simpler constituents The other approach we study is Operational Semantics where the meaning of a program is given by means of a Labelled Transition System which reflects the transitions of the program on an abstract machine In the approach and idealized implementation of the program is developed and problems associated with implementation can be addressed in an abstract setting    *Ten Years Of Concurrency Semantics: Selected Papers Of The Amsterdam Concurrency Group* J W De Bakker,J Rutten,1992-09-22 This collection of reprints describes a unified treatment of semantics covering a wide range of notions in parallel languages Included are several foundational and introductory papers developing the methodology of metric semantics studies on the comparative semantics of parallel object oriented and

logic programming and papers on full abstraction and transition system specifications In addition links with process algebra and the theory of domain equations are established Throughout a uniform proof technique is used to relate operational and denotational models The approach is flexible in that both linear time branching time or bisimulation and intermediate models can be handled as well as schematic and interpreted elementary actions The reprints are preceded by an extensive introduction surveying related work on metric semantics *The Semantics of Concurrency in FP2* Philippe Schnoebelen,1985 *Comparative Concurrency Semantics and Refinement of Actions* Rob J. Van Glabbeek,1996

   *Semantics of Systems of Concurrent Processes* Irene Guessarian,Laboratoire informatique théorique et programmation (France),1990-11-28 This volume contains the proceedings of the 1990 Spring School of Theoretical Computer Science devoted to the semantics of concurrency The papers are of two kinds surveys and tutorials introducing the subject to novices and students and giving updates of the state of the art research papers presenting recent achievements in the semantics of concurrency The contributions explicate the connections similarities and differences between various approaches to the semantics of concurrency such as pomsets and metric semantics event structures synchronization trees fixpoints and languages traces CCS and Petri nets and categorical models They also cover and compare the various notions of observation and bisimulation equivalences logics for concurrency and applications to dis tributed systems **Processes and the Denotational Semantics of Concurrency** Jacobus Willem Bakker,Jeffery Ian Zucker,1982 **Semantics for Concurrency Without Powerdomains** International Business Machines Corporation. Research Division,F. J. Oles,1987

   **The Semantics of Concurrency in FP2** Ph Schnoebelen,Informatique et Mathématiques Appliquées de Grenoble,1985

   **Processes and the denotational semantics of concurrency** J. W. de Bakker,J. I. Zucker,1982 **Semantics for Concurrency** Marta Z. Kwiatkowska,Michael W. Shields,Richard M. Thomas,1990-07-23 The semantics of concurrent systems is one of the most vigorous areas of research in theoretical computer science but suffers from disagree ment due to different and often incompatible attitudes towards abstracting non sequential behaviour When confronted with process algebras which give rise to very elegant highly abstract and com positional models traditionally based on the interleaving abstraction some argue that the wealth of contribution they have made is partially offset by the difficulty in dealing with topics such as faimess On the other hand the non interleaving approaches based on causality although easing problems with fairness and confusion still lack struc ture compositionality and the elegance of the interleaving counter parts Since both these approaches have undoubtedly provided important contributions towards understanding of concurrent systems one should concentrate on what they have in common rather than the way they differ The Intemational Workshop on Semantics for Concurrency held at the University of Leicester on 23 25 July 1990 was organised to help overcome this problem Its main objective was not to be divisive but rather to encourage discussions leading towards the identification of the positive objective features of the main approaches in the hope of furthering common understanding The Workshop met with an excel

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*Real-time Semantics for Concurrency with Shared Variables* Eric Shade,K. T. Narayana,1988 **A Proof-theoretic Approach to Semantics of Concurrency** Vijay Gehlot,1992 *TAPSOFT '91 - Volume 2* Samson Abramsky,Thomas S. E. Maibaum,1991 TAPSOFT 91 is the Fourth International Joint Conference on Theory and Practice of Software Development It was held in Brighton April 8 12 1991 and was organized by the Department of Computing Imperial College London The proceedings of TAPSOFT 91 are organized into three parts Advances in Distributed Computing ADC Colloquium on Trees in Algebra and Programming CAAP Colloquium on Combining Paradigms for Software Development CCPSD The proceedings are published in two volumes The first volume LNCS Vol 493 contains the papers from CAAP The second volume LNCS Vol 494 contains the papers from the ADC and CCPSD The ADC talks by distinguished invited speakers surveys current developments in distributed computing including the integration of different paradigms for concurrency algebraic logical and operational foundations and applications to software engineering and formal methods The CCPSD papers address aspects of the trend in software enginering towards unification and synthesis combining theory and practice and merging hitherto diverse approaches PUBLISHER S WEBSITE Metric Semantics for Concurrency J. W. de Bakker,J.-J. Ch Meyer,1988

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