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

Eric Shade,K. T. Narayana

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 *Semantics for Concurrency Without Powerdomains* International Business Machines Corporation. Research Division,F. J. Oles,1987 Seminar on Concurrency Stephen D. Brookes,Andrew W. Roscoe,Glynn Winskel,1985 **Directed Algebraic Topology and Concurrency** Lisbeth Fajstrup,Eric Goubault,Emmanuel Haucourt,Samuel Mimram,Martin Raussen,2016-03-02 This monograph presents an application of concepts and methods from algebraic topology to models of concurrent processes in computer science and their analysis Taking well known discrete models for concurrent processes in resource management as a point of departure the book goes on to refine combinatorial and topological models In the process it develops tools and invariants for the new discipline directed algebraic topology which is driven by fundamental research interests as well as by applications primarily in the static analysis of concurrent programs The state space of a concurrent program is described as a higher dimensional space the topology of which encodes the essential properties of the system In order to analyse all possible executions in the state space more than just the topological properties have to be considered Execution paths need to respect a partial order given by the time flow As a result tools and concepts from topology have to be extended to take privileged directions into account The target audience for this book consists of graduate students researchers and practitioners in the field mathematicians and computer scientists alike **Processes and the Denotational Semantics of Concurrency** Jacobus Willem Bakker,Jeffery Ian Zucker,1982 **Models for Concurrency** Uri Abraham,1999-05-24 Concurrent systems are generally understood in terms of behavioral notions Models for Concurrency analyzes the subject in terms of events and their temporal relationship rather than on global states It presents a comprehensive analysis of model

theory applied to concurrent protocols and seeks to provide a theory of concurrency that is both intuitively appealing and rigorously based on mathematical foundations The book is divided into three main sections The first introduces the required concepts from model theory details the structures that are used to model concurrency gives an in depth description and explanation of the semantics of a simple language that allows concurrent execution of sequential programs and deals with the question of resolving executions into higher level and lower level granularities The second and third sections apply the theory developed to practical examples and an exposition of the producer consumer problem with details of two solutions is given The author also deals with message passing as opposed to shared memory *The Semantics of Concurrency in FP2* Ph Schnoebelen,Informatique et Mathématiques Appliquées de Grenoble,1985 **Current Trends in Concurrency** Jacobus W. De Bakker,Willem Paul Roever (Jr.),Grzegorz Rozenberg,1986-06 **CONCUR 2004 -- Concurrency Theory** Philippa Gardner,Nobuko Yoshida,2011-03-22 This book constitutes the refereed proceedings of the 15th International Conference on Concurrency Theory CONCUR 2004 held in London UK in August September 2004 The 29 revised full papers presented together with 4 invited papers were carefully reviewed and selected from 134 submissions Among the topics covered are concurrency related aspects of models of computation semantic domains process algebras Petri nets event structures real time systems hybrid systems decidability model checking verification techniques refinement term and graph rewriting distributed programming constraint logic programming object oriented programming typing systems and algorithms case studies tools and environments for programming and verification **Real-time Semantics for Concurrency with Shared Variables** Eric Shade,K. T. Narayana,1988 **Handbook Of Graph Grammars And Computing By Graph Transformations, Vol 3: Concurrency, Parallelism, And Distribution** Grzegorz Rozenberg,Hartmut Ehrig,Hans-jorg Kreowski,Ugo Montanari,1999-08-30 Graph grammars originated in the late 60s motivated by considerations about pattern recognition and compiler construction Since then the list of areas which have interacted with the development of graph grammars has grown quite impressively Besides the aforementioned areas it includes software specification and development VLSI layout schemes database design modeling of concurrent systems massively parallel computer architectures logic programming computer animation developmental biology music composition visual languages and many others The area of graph grammars and graph transformations generalizes formal language theory based on strings and the theory of term rewriting based on trees As a matter of fact within the area of graph grammars graph transformation is considered as a fundamental computation paradigm where computation includes specification programming and implementation Over the last three decades graph grammars have developed at a steady pace into a theoretically attractive and important for applications research field Volume 3 of the indispensable Handbook of Graph Grammars and Computing by Graph Transformations presents the research on concurrency parallelism and distribution important paradigms of modern computer science The topics considered include semantics for concurrent systems modeling of concurrency mobile and coordinated

systems algebraic specifications Petri nets visual design of distributed systems and distributed algorithms The contributions have been written in a tutorial survey style by the top experts   **CONCUR 2007 - Concurrency Theory** Luís Caires,2007-08-22 This volume constitutes the refereed proceedings of the 17th International Conference on Concurrency Theory Thirty full papers are presented along with three important invited papers Each of these papers was carefully reviewed by the editors Topics include model checking process calculi minimization and equivalence checking types semantics probability bisimulation and simulation real time and formal languages   *Application and Theory of Petri Nets and Concurrency* Elvio Amparore,Łukasz Mikulski,2025-06-07 This book constitutes the proceedings of the 46th International Conference on Application and Theory of Petri Nets and Concurrency PETRI NETS 2025 held in Paris France during June 22 27 2025 The 21 full papers and 1 short paper included in this book were carefully reviewed and selected from 48 submissions They deal with topics such as composition and synthesis workflow nets process mining model checking communication timed and stochastic Petri nets etc The proceedings also include one invited talk in full paper length   **Structures in Concurrency Theory** Jörg Desel,2013-03-08 This book is the proceedings of the Structures in Concurrency Theory workshop STRICT that was held from 11 th to l3th May 1995 in Berlin Germany It includes three invited contributions by J de Bakker E Best et aI and E R Olderog and M Schenke and all papers which were submitted and accepted for presentation Concurrency Theory deals with formal aspects of concurrent systems It uses partly competing and partly complementary formalisms and structures The aim of this workshop was to present and compare different formalisms and results in Concurrency Theory STRICT was organized by the Humboldt University Berlin and the ESPRIT Basic Research Working Group CALIBAN Original papers had been sought from all scientists in the field of Concurrency Theory The Programme Committee selected twenty contributions with various different topics including Petri Nets Process Algebras Distributed Algorithms Formal Semantics and others I am grateful to the Programme Committee and to the other referees for the careful evaluation of the submitted papers   *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

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