Alan Burns
Geoff Davies

Concurrent Programming

Concurrent Programming International Computer Science Series

Judith Mary Bishop

Concurrent Programming International Computer Science Series:

<u>Concurrent Programming</u> Narain Gehani,Andrew D. McGettrick,1988 **Concurrent systems** Jean Bacon,Robin Laney,Janet Van der Linden,2002 This is a textbook on concurrent programming which serves to integrate operating systems and database concepts and provides a foundation for lates study in these areas <u>The JR Programming Language</u> Ronald A. Olsson,Aaron W. Keen,2004-07-06 JR is an extension of the Java programming language with additional concurrency mechanisms based on those in the SR Synchronizing Resources programming language The JR implementation executes on UNIX based systems Linux Mac OS X and Solaris and Windows based systems It is available free from the JR webpage This book describes the JR programming language and illustrates how it can be used to write concurrent programs for a variety of applications This text presents numerous small and large example programs The source code for all programming examples and the given parts of all programming exercises are available on the JR webpage Dr Ronald A Olsson and Dr Aaron W Keen the authors of this text are the designers and implementors of JR *Communication and Concurrency* Robin Milner,1989 Mathematics of Computing Parallelism **Objects for Concurrent Constraint Programming** Martin Henz,1997-10-31 Concurrent constraint programming ccp is a recent development in programming language design Its central contribution is the notion of partial information provided by a shared constraint store This constraint store serves as a communication medium between concurrent threads of control and as a vehicle for their synchronization Objects for Concurrent Constraint Programming analyzes the possibility of supporting object oriented programming in ccp Starting from established approaches the book covers various object models and discusses their properties Small Oz a sublanguage of the ccp language Oz is used as a model language for this analysis This book presents a general purpose object system for Small Oz and describes its implementation and expressivity for concurrent computation Objects for Concurrent Constraint Programming is written for programming language researchers with an interest in programming language aspects of concurrency object oriented programming or constraint programming Programming language implementors will benefit from the rigorous treatment of the efficient implementation of Small Oz Oz programmers will get a first hand view of the design decisions that lie behind the Oz object system **Patterns for Parallel Software Design** Jorge Luis Ortega-Arjona,2010-06-15 Essential reading to understand patterns for parallel programming Software patterns have revolutionized the way we think about how software is designed built and documented and the design of parallel software requires you to consider other particular design aspects and special skills From clusters to supercomputers success heavily depends on the design skills of software developers Patterns for Parallel Software Design presents a pattern oriented software architecture approach to parallel software design This approach is not a design method in the classic sense but a new way of managing and exploiting existing design knowledge for designing parallel programs Moreover such approaches enhance not only build time properties of parallel systems but also and particularly their run time properties Features known solutions in concurrent and distributed

programming applied to the development of parallel programs Provides architectural patterns that describe how to divide an algorithm and or data to find a suitable partition and link it with a programming structure that allows for such a division Presents an architectural point of view and explains the development of parallel software Patterns for Parallel Software Design will give you the skills you need to develop parallel software **Introduction to Programming Languages** Arvind Kumar Bansal,2013-12-14 In programming courses using the different syntax of multiple languages such as C Java PHP and Python for the same abstraction often confuses students new to computer science Introduction to Programming Languages separates programming language concepts from the restraints of multiple language syntax by discussing the concepts at an abstract level Designed for a one semester undergraduate course this classroom tested book teaches the principles of programming language design and implementation It presents Common features of programming languages at an abstract level rather than a comparative level The implementation model and behavior of programming paradigms at abstract levels so that students understand the power and limitations of programming paradigms Language constructs at a paradigm level A holistic view of programming language design and behavior To make the book self contained the author introduces the necessary concepts of data structures and discrete structures from the perspective of programming language theory The text covers classical topics such as syntax and semantics imperative programming program structures information exchange between subprograms object oriented programming logic programming and functional programming It also explores newer topics including dependency analysis communicating sequential processes concurrent programming constructs web and multimedia programming event based programming agent based programming synchronous languages high productivity programming on massive parallel computers models for mobile computing and much more Along with problems and further reading in each chapter the book includes in depth examples and case studies using various languages that help students understand syntax in practical contexts Concurrent Programming C. R. Snow,1992 This textbook is designed as a first book on concurrent programming for computer science undergraduates and provides a comprehensive introduction to the problems of concurrency Concurrency is of vital importance in many areas of computer science particularly in operating systems It is also increasingly being taught in undergraduate courses The book builds on the student s familiarity with sequential programming in a high level language which will make it very accessible to computer science students The book is concerned mainly with the high level aspects of concurrency which will be equally applicable to traditional time sliced or more recent truly parallel systems Concurrent Systems with Concurrent Programming in Java Lea,J. Bacon,2004-09-27 This Multi Pack consists of Concurrent Systems ISBN 0201177676 Concurrent Programming in Java Design Principles and Pattern ISBN 0201310090 Specification of Parallel Algorithms Guy E. Blelloch,K. Mani Chandy,Suresh Jagannathan,1994 This volume contains papers presented at the DIMACS workshop on Specification of Parallel Algorithms held in May 1994 at Princeton University The goal of the workshop was to bring together some of the best researchers in parallel languages

algorithms and systems to present and discuss recent developments in their areas of expertise Among the topics discussed were new specification techniques for concurrent and distributed systems behavioral and operational specification techniques new parallel language and system abstractions novel concurrent architectures and systems large scale parallel systems specification tools and environments and proof techniques for concurrent systems   Concurrent Programming Alan Burns,Geoff Davies,1993 This book provides a hands on introduction to concurrent programming principles and techniques Pascal FC Functionally Concurrent a teaching version of the Pascal language available from the authors is used to illustrate the main techniques used in the concurrency models Once programmers have grasped the concepts a smooth transition is made to more advanced theoretical material   **Analele Universității București** ,1996   *Computer Systems and Applications* E. Balagurusamy,B. Sushila,1990   **Persistent Object Systems** John Rosenberg,David Koch,1990 Presents the latest research in persistent object systems covering areas such as type systems and persistence persitent programming languages implementing persistence object stores measurement of persistent systems transactions and persistence and persistent machines   *Parallel Programming* Thomas Bräunl,1993 This introduction to parallel programming explores the fundamentals of parallelism parallel system architecture MIMD and SIMD and parallel programming languages and presents methods for designing parallel algorithms for writing efficient parallel programs and for computing performance data and judging it   **Object-based Concurrent Computing** Mario Tokoro,Oscar Marius Nierstrasz,Peter Wegner,1992 The ECOOP 91 Workshop on Object Based Concurrent Computing was organized toprovide a forum on concurrent distributed and open ended computing The emphasis was on conceptual theoretical and formal aspects as well as practical aspects and sound experience since such a viewpoint was deemed indispensible to investigate and establish a basis for future development This volume contains 12 papers selected from 25 presented at the workshop together with a paper by J A Goguen who was an invited speaker at the workshop The papers are classified into four categories Formal methods 1 three papers are concerned with the formal semantics of concurrent objects based on process calculi Formal methods 2 four papers are concerned with various formal approaches to the semantics of concurrent programs Concurrent programming three papers Models three papers areconcerned with models for concurrent systems PUBLISHER S WEBSITE   **Parallel Processing** M. E. C. Hull,Danny Crookes,Patrick J. Sweeney,1994 A tutorial guide to the INMOS transputer a computer on a chip which has applications in computer graphics robotics databases and more Covers architecture programming and applications plus coverage of the new H1 chip and the various languages used to program transputers including Pacsal C FORTRAN and Occam   Persistent Object Systems ,1989   *American Book Publishing Record* ,2005   *Bibliographic Guide to Computer Science* ,1991

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