SYNCHRONOUS PROGRAMMING OF REACTIVE SYSTEMS

Nicholas Halbwachs

Synchronous Programming Of Reactive Systems

Furio Honsell,Marino Miculan

Synchronous Programming Of Reactive Systems:

Synchronous Programming of Reactive Systems Nicolas Halbwachs,2013-06-29 This book will attempt to give a first synthesis of recent works con cerning reactive system design The term reactive system has been introduced in order to at oid the ambiguities often associated with by the term real time system which although best known and more sugges tive has been given so many different meanings that it is almost in evitably misunderstood Industrial process control systems transporta tion control and supervision systems signal processing systems are ex amples of the systems we have in mind Although these systems are more and more computerized it is sur prising to notice that the problem of time in computer science has been studied only recently by pure computer scientists Until the early 1980s time problems were regarded as the concern of performance evalu ation or of some unjustly scorned industrial computer engineering or at best of operating systems A second surprising fact in contrast is the growth of research con cerning timed systems during the last decade The handling of time has suddenly become a fundamental goal for most models of concurrency In particular Robin Alilner s pioneering works about synchronous process algebras gave rise to a school of thought adopting the following abstract point of view As soon as one admits that a system can instantaneously react to events i e **Synchronous Programming of Reactive Systems: an Introduction to ESTEREL.** Institut National de Recherche en Informatique et en Automatique,G. Berry,P. Couronne,G. Gonthier,1987 *Synchronous Programming of Reactive Systems* Simon Bloch,1987 *Tool Support for System Specification, Development and Verification* Rudolf Berghammer,Yassine Lakhnech,2012-12-06 The correct development of large com plex pieces of software demands a thorough structuring of the design process In a first phase the requirements engineering is relevant for capturing the relevant functionality and its adequate formalization in precise mathematical definitions Prototyping can can be used as a means for checking the functional behaviour at this early stage of development The ade quate specification resulting from the first phase is then the basis for the second phase which comprises the derivation of an implementation This phase requires the use of formal methods and tools to verify validate the implementation A prerequisite for applying this approach is to have a suitable mechanical support This volume contains the proceedings of the International Workshop Tool Support for System Specification Development and Verification organized June 1 4 1998 in Malente Germany This workshop is the third in a series of events devoted to this topic The first two workshops were held in 1994 in Kiel and 1996 in Bremen Germany The aim of this workshop is to provide a forum for researchers interested in the use and development of tools which support the use of mathematical techniques for the specification development and verification of systems The workshop covers the spectrum from verification tools to graphical editors and compilers The program of the workshop included an invited lecture and 26 talks The invited lecture was given by F W von Henke University ofUlm on Mechanized formal methods and system design **Object-Based Models and Languages for Concurrent Systems** Paolo Ciancarini,Oscar Nierstrasz,Akinori Yonezawa,1995-06-20 This volume presents

carefully refereed versions of the best papers presented at the Workshop on Models and Languages for Coordination of Parallelism and Distribution held during ECOOP 94 in Bologna Italy in July 1994 Recently a new class of models and languages for distributed and parallel programming has evolved all these models share a few basic concepts simple features for data description and a small number of mechanisms for coordinating the work of agents in a distributed setting This volume demonstrates that integrating such features with those known from concurrent object oriented programming is very promising with regard to language support for distribution and software composition **European Control Conference 1991** ,1991-07-02 Proceedings of the European Control Conference 1991 July 2 5 1991 Grenoble France **Synchronous/reactive Programming of Concurrent System Software** Bruce R. Montague,1995 Real-time Systems Education ,1997 **Advances in Design and Specification Languages for Embedded Systems** Sorin Alexander Huss,2007-07-19 Design and specification languages are of utmost interest in the area of embedded systems and the Forum on Specification and Design Languages has been once again the main European event for the embedded systems and chip design community Advances in Design and Specification Languages for Embedded Systems is the latest contribution to the Chip Design Languages series and it consists of selected papers presented at the Forum on Specifications and Design Languages FDL 06 in September 2006 FDL an ECSI conference is the premier European forum to present research results exchange experiences and learn about new trends in the application of specification and design languages as well as of associated design and modelling methods and tools for integrated circuits embedded systems and heterogeneous systems Modelling and specification concepts push the development of new methodologies for design and verification to system level they thus provide the means for a model driven design of complex information processing systems in a variety of application domains **Compiling Esterel** Dumitru Potop-Butucaru,Stephen A. Edwards,Gerard Berry,2007-05-18 Designed as the definitive reference on the compilation of the Esterel synchronous reactive real time language Compiling Esterel covers all aspects of the language and includes a tutorial a reference manual its formal semantics and detailed technical information about the many techniques used to compile it Esterel is based on the simple idea of providing a software language that has a synchronous model of time That is the execution of the program is divided into discrete instants and statements are either guaranteed to execute in a single instant or take multiple instants as requested by the programmer Suitable for programming safety critical real time systems Esterel and its model of computation have found use in industrial applications such as avionics integrated circuit design and other safety critical environments While Compiling Esterel does not assume prior knowledge of the Esterel language readers will appreciate having priorknowledge of programming language semantics and compiler technology along with some familiarity with synchronous digital hardware design Researchers as well as advanced developers will find Compiling Esterel essential for understanding Esterel at all levels **Trends in Ambient Intelligent Systems** Kiran Kumar Ravulakollu,Mohammad Ayoub Khan,Ajith Abraham,2016-03-18 This book demonstrates the success of

Ambient Intelligence in providing possible solutions for the daily needs of humans The book addresses implications of ambient intelligence in areas of domestic living elderly care robotics communication philosophy and others The objective of this edited volume is to show that Ambient Intelligence is a boon to humanity with conceptual philosophical methodical and applicative understanding The book also aims to schematically demonstrate developments in the direction of augmented sensors embedded systems and behavioral intelligence towards Ambient Intelligent Networks or Smart Living Technology It contains chapters in the field of Ambient Intelligent Networks which received highly positive feedback during the review process The book contains research work with in depth state of the art from augmented sensors embedded technology and artificial intelligence along with cutting edge research and development of technologies and applications of Ambient Intelligent Networks This book is intended to introduce ideas methods technologies of the future development of humanity Science and Technology **Real Time Programming 1999** A.H. Frigeri,W.A. Halang,S.H. Son,1999 In 1999 the IFAC IFIP Workshop on Real Time Programming WRTP joined forces with the Workshop on Active and Real Time Database Systems ARTDB Both series of workshops provide an excellent forum for exchanging information on recent scientific and technological advances and practices in real time computing a field that is becoming an essential enabling discipline of both control engineering and computer science and engineering The annual Workshop on Real Time Programming and the bi annual Workshop on Active and Real time Databases Systems are intended as meetings of relatively small numbers of experts in their fields taking place as truly international events The 1999 Workshop maintained the outstanding quality of both series providing an opportunity to assess the state of the art to present new results and to discuss possible lines of future developments Primarily it focused on software development for real time systems real time operating systems and active and real time database systems In particular the technical programme of the Workshop covered latest research and developments in requirements engineering software engineering active and real time database systems communication and clock synchronisation embedded systems formal methods operating systems and scheduling Out of 58 submissions from 19 countries the International Programme Committee selected 26 regular papers and 8 reserve papers for presentation at the Workshop Contributions come from Europe North America Australia and the Far East In addition to these the programme also featured two world renowned keynote speakers and a discussion panel about the state of the art in the field of active real time database systems **Formal Techniques in Real-time and Fault-tolerant Systems** ,2000 *Fourth Euromicro Workshop on Real-Time Systems* ,1992 **Foundations of Software Science and Computation Structures** Furio Honsell,Marino Miculan,2001-03-21 ETAPS 2001 was the fourth instance of the European Joint Conferences on Theory and Practice of Software ETAPS is an annual federated conference that was established in 1998 by combining a number of existing and new conferences This year it comprised ve conferences FOSSACS FASE ESOP CC TACAS ten satellite workshops CMCS ETI Day JOSES LDTA MMAABS PFM RelMiS UNIGRA WADT WTUML seven invited lectures a debate and

ten tutorials The events that comprise ETAPS address various aspects of the system de lopment process including speci cation design implementation analysis and improvement The languages methodologies and tools which support these tivities are all well within its scope Di erent blends of theory and practice are represented with an inclination towards theory with a practical motivation on one hand and soundly based practice on the other Many of the issues involved in software design apply to systems in general including hardware systems and the emphasis on software is not intended to be exclusive

Real-time Systems Brian Randell,1989   Real Time Programming 1996 Carlos Eduardo Pereira,Wolfgang A. Halang,1997 Paperback This volume contains the proceedings of the 21st IFAC IFIP Workshop on Real Time Programming WRTP 96 held in Gramado Brazil on 4 6 November 1996 Over the years this series of annual workshops has become an excellent forum for exchanging information on technological advances and practices in real time computing a field that is rapidly becoming an essential enabling discipline in computer science and engineering The technical programme of the workshop maintained the outstanding quality of the series and covered all the latest research and developments in scheduling operating systems communications timing analysis system development databases formal methods and applications In addition to high quality papers the programme featured three world class keynote speakers and some poster presentations These proceedings therefore comprise 21 full papers three keynote addresses and five short contributions

ACM SIGPLAN Notices ,2006   **Algorithms and Architectures for Real-Time Control 1998** D.F. Garcia Nocetti,1998-09-10 The 5th IFAC Workshop on Algorithms and Architectures for Real Time Control AARTC 98 was organized under the auspices of the IFAC Technical Committee This Committee is concerned with the use of emerging software and hardware developments in real time control The AARTC 98 Technical Programme consisted of seventeen sessions covering major areas of software hardware and applications for real time control namely robotics modeling and control software design tools and methodologies industrial process control and manufacturing systems parallel and distributed systems non linear control systems neural networks parallel and distributed algorithms for real time signal processing and control transport applications algorithms fault tolerant systems and fuzzy control The contributions were selected from a large number of high quality full draft papers and late breaking paper contributions presenting very recent research work

Proceedings of the ... ACM SIGPLAN International Conference on Functional Programming ,1996

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