Transputers in Real-time Control (Industrial Control, Computers & Communication)

Irwin, G.w.

Transputers In Real Time Control

Ying Liu

Transputers In Real Time Control:

Transputers in Real-Time Control G. W. Irwin,P. J. Fleming,1992-12-08 Describes applications of the transputer for real time control across the spectrum of engineering The text concentrates on transputer architecture and real time control with a strong emphasis on case studies and practical applications in many fields of engineering *Transputer Applications* Mike R. Jane,Raymond J. Fawcett,Terry P. Mawby,1992 The symposium held in Reading in March 1992 celebrated the completion of a 5 year Initiative in the Engineering Applications of Transputers It reviewed achievements in a range of applications and supporting fields and predicted future developments This book represents a collection of articles presented at this meeting as well as independent reviews of the Transputer Initiative **Transputer Applications and Systems '93** Reinhard Grebe,1993 Proceedings Parallel Computing **Transputer and Occam Developments** World Occam and Transputer User Group. Technical Meeting,1995 This volume contains papers presented at the 18th meeting of the World Occam and Transputer User Group Wotug The papers cover a wide range of transputer and OCCAM related topics such as the the porting and development of the OCCAM language highlighting the need for cross platform implementations of OCCAM compilers design approaches and applications *Artificial Intelligence in Real-Time Control 1995* J. Kocijan,R. Karba,1996-07-03 The Sixth International IFAC Workshop on Artificial Intelligence in Real Time Control was held in Slovenia in 1995 and provided a forum for leading researchers and practitioners in this field to exchange ideas and results This postprint volume from the workshop contains all the papers presented there and features five plenary lectures by distinguished control artificial intelligence scientists The approaches covered in the papers include fuzzy control artifical neural networks expert systems and machine learning whilst the Technical Programme highlights a vareity of methods from artifical intelligence fields applied for control problems *The Transputer in Australasia* Australian Transputer and OCCAM User Group,1990 *The Transputer in Australasia* John Hulskamp,Terry Bossomaier,Tom Hintz,1991 Covering recent developments involving transputer technology in the Australasian region this work contains 35 papers addressing transputer applications in communications networks fuzzy systems image processing and medical equipment Transputer Based Real-time Process Control Sasidhar V. Challa,1992 **Parallel Programming of Transputer Based Machines** Traian Muntean,1988 This publication contains papers from the Occam User Group OUG The main aim of the OUG is to act as an independent forum for the exchange of ideas results and information in research and development of projects in the area of parallel systems design and programming using various communicating processes oriented approaches for transputer based machines The papers collected in this volume cover topics such as methodology of Occam programming parallel asynchronous algorithms control of real parallelisms in highly parallel machines of transputers applications in scientific programming real time processing image processing etc *Real-time Systems with Transputers* Occam User Group. Technical Meeting,1990 **Parallel Processing in Digital Control** D. Fabian Garcia Nocetti,Peter J. Fleming,2012-12-06

Parallel Processing in Digital Control is a volume to be published in the new Advances in Industrial Control series edited by Professor M J Grimble and Dr M A Johnson of the Industrial Control Unit University of Strathclyde The growing complexity of digital control systems in such areas as robotics flight control and engine control has created a demand for faster and more reliable systems This book examines how parallel processing can satisfy these requirements Following a survey of parallel computer architectures MIMD Multiple Instruction Multiple Data machines are identified as suitable systems for digital control problems which are characterised by a mixture of regular and irregular algorithmic tasks An example of a typical MIMD architecture suitable for real time control the Inmos Transputer is introduced together with its associated parallel programming language Occam The key problem in implementing parallel software is associated with mapping parallel tasks onto physical processors In this book a variety of schemes are described and assessed to help illustrate potential areas of difficulty for the real time control software engineer Solutions are proposed and tested on a flight control case study example Recognising the widespread acceptance of MATLAB and its derivatives for computer aided control system design this book demonstrates how mapping strategies can be realised in this environment and integrated with a transputer development system for on line performance evaluation A case study example demonstrates the power of this approach and important issues are highlighted Readers will experience the advantages of parallel processing in digital control while being made aware of the key factors to be considered in the development of an effective solution Practising control engineers and graduate post graduate students will find the book of particular interest and benefit   A Hardware Configuration Tool for Real Time Transputer Systems in Robotics Control Weibin Zhang,1992   *Transputer Systems, Ongoing Research* World Occam and Transputer User Group. Technical Meeting,1992 This volume contains the papers presented at the 15th Technical Meeting of the World Occam and Transputer User Group WOTUG 15 offering a representation of current work being undertaken in the transputer field Two invited papers outline the development of systems architecture and programming environments which aim to make the power of the next generation transputers readily available   Transputer Research and Applications 1 North American Transputer Users Group. Conference,North American Transputer Users Group,1990 Proceedings Parallel Computing   **Proceedings of the ... Australian Transputer and OCCAM User Group Conference** ,1993   *Reactive System Verification Case Study: Fault-tolerant Transputer Communication* ,1993   *Parallel Computing and Transputers* D. Arnold,1994 The broadening of interest in parellel computing and transputers is reflected in this text Topics covered include concurrent programming graphics and image processing and robotics and control It is based on the proceedings of the 6th Australian Transputer and Occam User Group   **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 **Microcomputers--usage, Methods, and Structures** Harald Schumny,John Mølgaard,1987 *The Proceedings of the Third IEEE Conference on Control Applications* IEEE Control Systems Society,1994

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