

## Parallel ODE Solver Based on Convolution in a Transputer/DSP Environment

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**Abstract.** We consider parallel numerical methods for ordinary differential equations (ODEs) using the potential parallelism of convolution algorithms. These methods are based on approximated Newton iteration and, in fact, are a form of the shifted Picard splitting. The basic idea is to solve the linear ODE on each iteration by computations of the convolution quadrature. After discretization, the convolution quadrature may be computed very efficiently by the use of a digital signal processor (DSP) or any parallel convolution algorithm. In this paper we first discuss the advantages of the convolution consideration allowing this additional speedup to be obtained. Besides, there is the opportunity of convolution calculations in the finite fields. On the other hand the convolution permits "automatic using" of the inner parallelism of ODE associated with behaviour of the Jacobian matrix. We also concern with the problems of discretization of the convolution quadrature. The second part of the paper examines the potential performance of the proposed method within a few test problems. All estimates are obtained by numerical experiments on the transputer network.

### 1 Introduction

In this paper we consider the convolution-based approach to parallel numerical solving the initial-value problem for the nonlinear ordinary differential equation (ODE)

$$\frac{dy}{dt} = f(t, y), \quad a \leq t \leq b, \quad y(a) = y_0. \quad (1)$$

Most of the numerical methods for solving ODE can be derived by appropriate choice of an interpolation polynomial for the integrand  $f(t, y)$  in the equivalent integral equation for (1)

$$y(t) = y_0 + \int_a^t f(\tau, y) d\tau, \quad a \leq t \leq b. \quad (2)$$

Thus the potential parallelism across time [1] of usual recurrence methods (as Runge-Kutta or linear multistep methods) is limited by several simultaneous evaluations of the integrand over one step  $[t_0, t_0 + h]$  of a method. Then the parallel step-by-step methods [8], [9] can utilize usually no more than 10 processors (here we do not consider the trivial parallelism across space). For this reason we are looking for new methods allowing large-scale parallelism across time.

Recently a different approach has been proposed [2], [3] than the step-by-step one. These techniques also called *the waveform methods* use an iteration process for solving the integral equation (2) or a similar one over time subinterval  $[t_0, t_0 + H]$  of length

# Transputer Research And Applications 6

**S. G. Tzafestas, Pierre Borne, Lucio  
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## **Transputer Research And Applications 6:**

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**Parallel Computing** Jonathan P. Gray, Fazel Naghdy, 1995 The broadening of interest in parallel computing and transputers is reflected in this book Topics discussed include concurrent programming graphics and image processing parallel applications robotics and control and software tools The book also features a collection of abstracts of poster presentations

**Abstract Machine Models for Parallel and Distributed Computing** M. Kara, J. R. Davy, D. Goodeve, 1996 Abstract Machine Models have played a profound though frequently unacknowledged role in the development of modern computing systems They provide a precise definition of vital concepts allow system complexity to be managed by providing appropriate views of the activity under consideration enable reasoning about the correctness and quantitative performance of proposed problem solutions and encourage communication through a common medium of expression Abstract Models in Parallel and Distributed computing have a particularly important role in the development of contemporary systems encapsulating and controlling an inherently high degree of complexity The Parallel and Distributed computing communities have traditionally considered themselves to be separate However there is a significant contemporary interest in both of these communities in a common hardware model a set of workstation class machines connected by a high performance network The traditional Parallel Distributed distinction therefore appears under threat

**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 porting and development of the OCCAM language highlighting the need for cross platform implementations of OCCAM compilers design approaches and applications

*The Network Designer's Handbook* A. M. Jones, 1997 The Network Designer's Handbook will help anyone trapped between limited bandwidth fault intolerant computer buses and expensive over engineered telecommunications technology It will help anyone looking for new cost effective ways to build LAN switches RAID systems multimedia servers or multiprocessors It will help the small company looking for an edge to break into the market and the large one looking for ways to improve its margins and boost its market share This handbook the result of over six man years of effort at the PACT Research Institute provides solid engineering data for the computer systems professional Four cpu months of system simulation are summarised in an easy to read form allowing the consequences of different design decisions to be simply compared The Network Designer's Handbook explains the principles of the new generation of small scale low buffer serial interconnects Using the specific example of IEEE 1355 1995 links and the STC104 high valency switch chip it shows how this technology can provide modular

fault tolerant and scalable interconnect The picture is rounded out with descriptions of network topologies case studies and many practical tips

**Computational Intelligence for Modelling, Control & Automation** Masoud Mohammadian,1999 This edited Book is dedicated to the theory and applications of Evolutionary Computation and Fuzzy Logic for Intelligent Control Knowledge Acquisition and Information Retrieval The book consists of 86 selected research papers from the 1999 International Conference on Computational Intelligence for Modelling Control and Automation CIMCA 99 The research papers presented in this book cover new techniques and applications in the following research areas Evolutionary Computation Fuzzy Logic and Expert Systems with their applications for Optimisation Learning Control Scheduling and Multi Criteria Analysis as well as Reliability Assessment Information Retrieval and Knowledge Acquisition

**Correct Models of Parallel Computing** S. Noguchi,Ota Masahiro,1997 The 21st century will be the age of network computing Among the many key technologies in this field parallel computing and networking technology will play very important roles In this book emphasis is placed on networking and modeling parallel computing The topics cover parallel computing algorithms parallel software massively parallel computing systems and related applications Articles cover parallel computing networking and related applications to initiate discussions Since the appearance of Transputer chip T9000 C104 and standardizations of IEEE1355 Transputer systems seem to have opened a new interesting area of parallel computing networking and many practical applications

Parallel Processing Developments World Occam and Transputer User Group. Technical Meeting,1996 Technical articles on the 19th meeting of the World Occam and Transputer User Group WoTUG They cover a wide range of topics from hardware applications to software tools for of parallel processing support not solely related to transputers Part of the book focusses on the retargeting of the occam compiler to a range of other processors

Advances in Computer and Information Sciences '98 U. Gudukbay,1998 This volume includes very high quality papers in different areas of computer and information sciences The main themes are computer network performance evaluation and artificial neural networks and their applications The latest developments in these areas are presented by a number of distinguished researchers from all over the world These proceedings of The 13th International Symposium on Computer and Information Sciences ISCIS 98 contain outstanding papers specifically related to the areas of Gelenbe neural networks and their applications performance of computer communication networks simulations and analytic methods in order to study the performance of telecommunication networks scheduling and resource allocation in computer and multimedia systems stochastic ordering applied to performance evaluation and simulation of virtual humans

*Transputer Research and Applications 1* North American Transputer Users Group. Conference,North American Transputer Users Group,1990 Proceedings Parallel Computing

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**Communicating Process Architectures 2004** Ian East,J. Martin,P.H. Welch,2004 Communicating Process Architecture CPA describes an approach to system development that is process oriented It makes no great distinction

between hardware and software It has a major root in the theory of Communicating Sequential Processes CSP However the underlying theory is not limited to CSP The importance of mobility of both channel and process within a network sees integration with ideas from the calculus Other formalisms are also exploited such as BSP and MPI The focus is on sound methods for the engineering of significant concurrent systems including those that are distributed across the Internet or within a single chip and or software scheduled on a single execution unit Traditionally at CPA the emphasis has been on theory and practice developing and applying tools based upon CSP and related theories to build high integrity systems of significant size In particular interest focuses on achieving scalability and security against error The development of Java C and C libraries to facilitate secure concurrent programming using mainstream languages has allowed CPA to continue and proliferate This work continues in support of the engineering of distributed applications Recently there has been greater reference to theory and its more direct application to programming systems and languages In this volume the formal CSP is very well presented The papers provide a healthy mixture of the academic and commercial software and hardware application and infrastructure which reflects the nature of the discipline

Transputer Research and Applications 3 North American Transputer Users Group,1990      *Transputer Research and Applications 4* G. S. Stiles,1990      **Directory of Published Proceedings** ,1998      Findex ,1995      Transputer Research and Applications ,1990      **Parallel and Distributed Computing in Engineering Systems** S. G. Tzafestas,Pierre Borne,Lucio Grandinetti,1992 This book presents 91 papers reflecting the experience of a large family of workers in the field of parallel and distributed computing systems It explores fresh results and important methods and tools Among topics addressed are architectures and algorithms parallel computing in non numerical processes parallel computing in optimization control and signal image processing distributed computing and control neural computing communication networks and engineering applications Research institutes and companies as well as universities and individual computer control systems or communications scientists and engineers should find this a valuable addition to their libraries

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