

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

Yuri P. BOGLAEV, Sergei V. ZYBIN

Institute for High Temperatures Academy of Sciences, Izhorskaya 13/19, Moscow
127412, Russia, e-mail: BOG@termo.msk.su

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

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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

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Table of Contents Transputer Research And Applications 6

1. Understanding the eBook Transputer Research And Applications 6
 - The Rise of Digital Reading Transputer Research And Applications 6
 - Advantages of eBooks Over Traditional Books
2. Identifying Transputer Research And Applications 6
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Transputer Research And Applications 6
 - User-Friendly Interface
4. Exploring eBook Recommendations from Transputer Research And Applications 6
 - Personalized Recommendations
 - Transputer Research And Applications 6 User Reviews and Ratings
 - Transputer Research And Applications 6 and Bestseller Lists

5. Accessing Transputer Research And Applications 6 Free and Paid eBooks
 - Transputer Research And Applications 6 Public Domain eBooks
 - Transputer Research And Applications 6 eBook Subscription Services
 - Transputer Research And Applications 6 Budget-Friendly Options
6. Navigating Transputer Research And Applications 6 eBook Formats
 - ePub, PDF, MOBI, and More
 - Transputer Research And Applications 6 Compatibility with Devices
 - Transputer Research And Applications 6 Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Transputer Research And Applications 6
 - Highlighting and Note-Taking Transputer Research And Applications 6
 - Interactive Elements Transputer Research And Applications 6
8. Staying Engaged with Transputer Research And Applications 6
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Transputer Research And Applications 6
9. Balancing eBooks and Physical Books Transputer Research And Applications 6
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Transputer Research And Applications 6
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Transputer Research And Applications 6
 - Setting Reading Goals Transputer Research And Applications 6
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Transputer Research And Applications 6
 - Fact-Checking eBook Content of Transputer Research And Applications 6
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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