

Computational Technologies

Advanced Topics

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Preface

SEE BOOK-I !!!

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Moscow, Yakutsk, December 2012.

Introduction

Nowadays, engineering and scientific computations are carried out on parallel computing systems, which provide parallel data processing on a few computing nodes. In the development of up-to-date applied software, this feature of computers must be taken into account for the maximum efficient usage of their resources. In constructing computational algorithms, we should separate relatively independent subproblems in order to solve them on a single computing node.

Parallel computing is supported by a variety of programming techniques. Improvement of program performance on computing systems of various structure (multiprocessor, multicore or cluster architecture) is provided by the multi-threaded programming model.

Formula Name

Firstname Familyname^a

Short description of the formula

1.1 History of computers

Formula

^a North-Eastern Federal University, Yakutsk

Formula Name

Firstname Familyname^a

Short description of the formula

2.1 History of computers

Formula

^a North-Eastern Federal University, Yakutsk

Formula Name

Firstname Familyname^a

Short description of the formula

3.1 History of computers

Formula

^a North-Eastern Federal University, Yakutsk

Formula Name

Firstname Familyname^a

Short description of the formula

4.1 History of computers

Formula

^a North-Eastern Federal University, Yakutsk