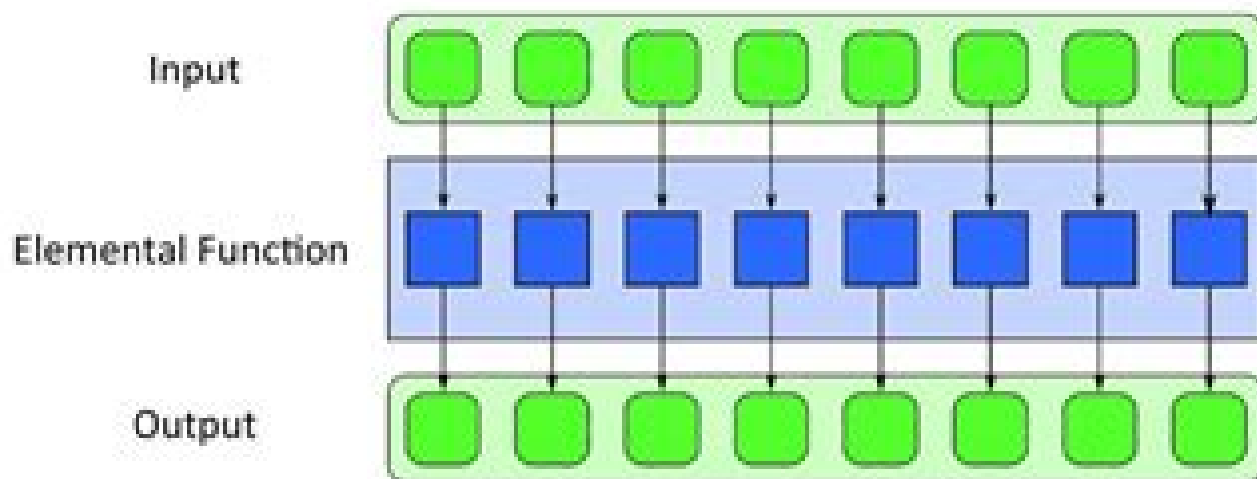


Parallel Control Patterns: Map

- ❑ **Map:** performs a function over every element of a collection
- ❑ Map replicates a serial iteration pattern where each iteration is independent of the others, the number of iterations is known in advance, and computation only depends on the iteration count and data from the input collection
- ❑ The replicated function is referred to as an “elemental function”



Patterns For Parallel Programming

Jonathan Chow



Patterns For Parallel Programming:

Patterns for Parallel Programming Timothy G. Mattson, Beverly Sanders, Berna Massingill, 2004-09-15 The Parallel Programming Guide for Every Software Developer From grids and clusters to next generation game consoles parallel computing is going mainstream Innovations such as Hyper Threading Technology HyperTransport Technology and multicore microprocessors from IBM Intel and Sun are accelerating the movement s growth Only one thing is missing programmers with the skills to meet the soaring demand for parallel software That s where Patterns for Parallel Programming comes in It s the first parallel programming guide written specifically to serve working software developers not just computer scientists The authors introduce a complete highly accessible pattern language that will help any experienced developer think parallel and start writing effective parallel code almost immediately Instead of formal theory they deliver proven solutions to the challenges faced by parallel programmers and pragmatic guidance for using today s parallel APIs in the real world Coverage includes Understanding the parallel computing landscape and the challenges faced by parallel developers Finding the concurrency in a software design problem and decomposing it into concurrent tasks Managing the use of data across tasks Creating an algorithm structure that effectively exploits the concurrency you ve identified Connecting your algorithmic structures to the APIs needed to implement them Specific software constructs for implementing parallel programs Working with today s leading parallel programming environments OpenMP MPI and Java Patterns have helped thousands of programmers master object oriented development and other complex programming technologies With this book you will learn that they re the best way to master parallel programming too *Structured Parallel Programming* Michael McCool, James Reinders, Arch Robison, 2012-06-25 Programming is now parallel programming Much as structured programming revolutionized traditional serial programming decades ago a new kind of structured programming based on patterns is relevant to parallel programming today Parallel computing experts and industry insiders Michael McCool Arch Robison and James Reinders describe how to design and implement maintainable and efficient parallel algorithms using a pattern based approach They present both theory and practice and give detailed concrete examples using multiple programming models Examples are primarily given using two of the most popular and cutting edge programming models for parallel programming Threading Building Blocks and Cilk Plus These architecture independent models enable easy integration into existing applications preserve investments in existing code and speed the development of parallel applications Examples from realistic contexts illustrate patterns and themes in parallel algorithm design that are widely applicable regardless of implementation technology The patterns based approach offers structure and insight that developers can apply to a variety of parallel programming models Develops a composable structured scalable and machine independent approach to parallel computing Includes detailed examples in both Cilk Plus and the latest Threading Building Blocks which support a wide variety of computers **Patterns for Parallel Software Design** Jorge Luis Ortega-Arjona, 2010-06-15

Essential reading to understand patterns for parallel programming Software patterns have revolutionized the way we think about how software is designed built and documented and the design of parallel software requires you to consider other particular design aspects and special skills From clusters to supercomputers success heavily depends on the design skills of software developers Patterns for Parallel Software Design presents a pattern oriented software architecture approach to parallel software design This approach is not a design method in the classic sense but a new way of managing and exploiting existing design knowledge for designing parallel programs Moreover such approaches enhance not only build time properties of parallel systems but also and particularly their run time properties Features known solutions in concurrent and distributed programming applied to the development of parallel programs Provides architectural patterns that describe how to divide an algorithm and or data to find a suitable partition and link it with a programming structure that allows for such a division Presents an architectural point of view and explains the development of parallel software Patterns for Parallel Software Design will give you the skills you need to develop parallel software

Patterns for Parallel Programming on GPUs Frédéric Magoulès,2014

Parallel Programming with Microsoft Visual C++ Colin Campbell,Ade Miller,2011 Your CPU meter shows a problem One core is running at 100 percent but all the other cores are idle Your application is CPU bound but you are using only a fraction of the computing power of your multicore system Is there a way to get better performance The answer in a nutshell is parallel programming Where you once would have written the kind of sequential code that is familiar to all programmers you now find that this no longer meets your performance goals To use your system s CPU resources efficiently you need to split your application into pieces that can run at the same time Of course this is easier said than done Parallel programming has a reputation for being the domain of experts and a minefield of subtle hard to reproduce software defects Everyone seems to have a favorite story about a parallel program that did not behave as expected because of a mysterious bug These stories should inspire a healthy respect for the difficulty of the problems you will face in writing your own parallel programs Fortunately help has arrived The Parallel Patterns Library PPL and the Asynchronous Agents Library introduce a new programming model for parallelism that significantly simplifies the job Behind the scenes are sophisticated algorithms that dynamically distribute computations on multicore architectures In addition Microsoft Visual Studio 2010 developmentssystem includes debugging and analysis tools to support the new parallel programming model Proven design patterns are another source of help This guide introduces you to the most important and frequently used patterns of parallel programming and provides executable code samples for them using PPL When thinking about where to begin a good place to start is to review the patterns in this book See if your problem has any attributes that match the six patterns presented in the following chapters If it does delve more deeply into the relevant pattern or patterns and study the sample code

PARALLEL PROGRAMMING WITH MICROSOFT .NET, DESIGN PATTERNS FOR DECOMPOSITION AND COORDINATION ON MUL (With CD) Colin Campbell,Ralph Johnson,Ade Miller,Stephen Toub,2011-09-01 About

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Parallel Programming Patterns Timothy G. Mattson, Berna Massingill, Beverly Sanders, 2018-03-06 From cloud computing to smartphones today s highest growth software environments depend on parallel programming That s why parallel programming is increasingly viewed as a foundational job skill expected of every professional developer However parallel computing requires traditional application developers to think and work differently that s why it s so often viewed as difficult In Parallel Programming Patterns three leading experts cut through the complexity showing how to think parallel and offering practical solutions to many of the challenges you ll encounter Drawing on immense experience programming parallel systems and teaching others to do so the authors cover all this and more What you need to know about concurrency in parallel programs parallel architecture and the jargon of parallel computing How to find concurrency and decompose tasks and data How to select and work with algorithm and supporting structures How to work with implementation mechanisms for UE management synchronization and communication Getting started with OpenMP MPI and concurrent programming in Java

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Structured Parallel Programming Michael McCool, James Reinders, Arch Robison, 2012-07-31 Structured Parallel Programming offers the simplest way for developers to learn patterns for high performance parallel programming Written by parallel computing experts and industry insiders Michael McCool Arch Robison and James Reinders this book explains how to design and implement maintainable and efficient parallel algorithms using a composable structured scalable and machine independent approach to parallel computing It presents both theory and practice and provides detailed concrete examples using multiple programming models The examples in this book are presented using two of the most popular and cutting edge programming models for parallel programming Threading Building Blocks and Cilk Plus These architecture independent models enable easy integration into existing applications preserve investments in existing code and speed the development of parallel applications Examples from realistic contexts illustrate patterns and themes in parallel algorithm design that are widely applicable regardless of implementation technology Software developers computer programmers and software architects will find this book extremely helpful The patterns based approach offers structure and insight that developers can apply to a variety of parallel programming models Develops a composable structured scalable and machine independent approach to parallel computing Includes detailed examples in both Cilk Plus and the latest Threading Building Blocks which support a wide variety of computers

Design Patterns for Parallel Programming on Modern Desktop and Android Devices Using Parallel Task Jonathan Chow, 2013 It is becoming increasingly difficult to find any modern computing device targeted for consumers that does not feature a processor with at least two processing cores Multi core devices have become the norm However the increase in computational power has not been completely met by an equal increase in the usage of the available computing power Creating an application that utilises multiple cores on a device is fraught with difficulties There are so many concepts for a programmer to learn before being able to effectively program for such a device synchronisation scheduling locks mutexes latches monitors just to name a few All these concepts serve only as a barrier to entering the world of parallel programming Parallel Task is an enhancement to the Java programming language that seeks to unite parallel programming and object oriented programming via simple but effective tasking constructs This thesis examines how suitable these constructs are for common parallelisation problems The method of determining common problems is based on summarising parallelisation problems described in academic literature into abstract concepts known as

design patterns Each pattern represents a class of problems with a general solution It is the implementation of these solutions that Parallel Task is tested against Where Parallel Task fails to efficiently implement a pattern new concepts are introduced to enable developing against the pattern It was found that Parallel Task is a viable framework for general parallel programming Although it provides a higher level of abstraction than what most current programming languages provide any change in performance compared to a lower level implementation was found to be acceptable It was also found that Parallel Task is scalable to machines with more processing cores than what most consumer devices have demonstrating it can be used effectively even in the future

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