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this volume of advances in intelligent systems and computing highlights key scientific achievements and innovations in all areas of automation informatization computer science and artificial intelligence it gathers papers presented at the iiti 2017 the second international conference on intelligent information technologies for industry which was held in varna bulgaria on september 14 16 2017 the conference was jointly co organized by technical university of varna bulgaria technical university of sofia bulgaria vsb technical university of ostrava czech republic and rostov state transport university russia the iiti 2017 brought together international researchers and industrial practitioners interested in the development and implementation of modern technologies for automation informatization computer science artificial intelligence transport and power electrical engineering in addition to advancing both fundamental research and innovative applications the conference is intended to establish a new dissemination platform and an international network of researchers in these fields

if you are a programmer looking for a truly cross platform gui framework to help you save your time by side stepping the incompatibility between different platforms and building applications using qt 5 for multiple targets then this book is most certainly intended for you it is assumed that you have a basic programming experience of c and fundamental knowledge about qt

the official raspberry pi projects book returns with inspirational projects detailed step by step guides and product reviews based around the phenomenon that is the raspberry pi see why educators and makers adore the credit card sized computer that can be used to make robots retro games consoles and even art in this volume of the official raspberry pi projects book you ll get involved with the amazing and very active raspberry pi community be inspired by incredible projects made by other people learn how to make with your raspberry pi with our tutorials find out about the top kits and accessories for your pi projects and much much more if this is your first time using a raspberry pi you ll also find some very helpful guides to get you started with your raspberry pi journey with millions of raspberry pi boards out in the wild that s millions more people getting into digital making and turning their dreams into a pi powered reality being so spoilt for choice though means that we ve managed to compile an incredible list of projects guides and reviews for you this book was written using an earlier version of raspberry pi os please use raspberry pi os legacy for full compatibility see magpi cc legacy for more information

this book constitutes the refereed proceedings of the 12th international conference on parallel computational technologies pct 2018 held in rostov on don russia in april 2018 the 24 revised full papers presented were carefully reviewed and selected from 167 submissions the papers are organized in topical sections on high performance architectures tools and technologies parallel numerical algorithms supercomputer simulation

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practical examples quickly basic familiarity with c c the python programming language and the command line interface cli is required however no prior knowledge of microcontrollers is necessary

wer programmiert muss sich mit neuen techniken standards und trends auseinandersetzen mit maschinellem lernen javascript python und den standards c 17 und c 20 greift dieses ix kompakt aktuelle trends in der softwareentwicklung auf machine learning und die verarbeitung riesiger datenmengen mit maschinenintelligenz ist dabei die it umzukrempeln leistungsfähige bibliotheken wie googles tensorflow und scikit learn bringen komplexe ml algorithmen in eigene python programme javascript steht ganz oben in der liste der meist genutzten programmiersprachen dieses ix kompakt zeigt unter anderem was der aktuelle stand der dinge ist und wie man heutzutage komplexe anwendungen programmiert python ist zum schweizer taschenmesser in der it geworden obwohl die sprache schnell und einfach zu erlernen ist lohnt es sich tiefer einzusteigen und sich mit themen wie multithreading asynchronität und jupyter ipython zu beschäftigen die standards c 17 und c 20 bringen dem programmiersprachen klassiker etliche neuerungen unter anderem beim multithreading ein schwerpunkt des hefts liegt auf den neuen concepts die artikel stammen aus ix dem heise magazin für professionelle it das auf dem titel beworbene ix video tutorial zu c ist bis zum 31 12 2018 für einen vergünstigten preis erhältlich

the book is an easy to follow guide for creating multi threaded applications using c each topic is thoroughly explained with multiple illustrations many algorithms such as dinning philosophers problem give you thorough explanations that will help you to understand and solve concurrent tasks the book is intended for enterprise developers and programmers who wish to make use of c capabilities to learn the multithreaded approach knowledge of multithreading along with experience in c is an added advantage however it is not a

prerequisite

cookbook multithreading in c 5 0 cookbook is written for existing c developers who want a complete professional and authoritative guide to multithreading you don t need any experience with multithreaded programming to use this book

over 70 recipes to get you writing powerful and efficient multithreaded asynchronous and parallel programs in c 6 0about this book rewritten and updated to take advantage of the latest c 6 features learn about multithreaded asynchronous and parallel programming through hands on code first examples use these recipes to build fast scalable and reliable applications in c who this book is forthis book is aimed at those who are new to multithreaded programming and who are looking for a quick and easy way to get started it is assumed that you have some experience in c and net already and you should also be familiar with basic computer science terminology and basic algorithms and data structures what you will learn use c 6 0 asynchronous language features work with raw threads synchronize threads and coordinate their work develop your own asynchronous api with task parallel library work effectively with a thread pool scale up your server application with i o threads parallelize your linq queries with plinq use common concurrent collections apply different parallel programming patterns use reactive extensions to run asynchronous operations and manage their optionsin detailmulti core processors are synonymous with computing speed and power in today s world which is why multithreading has become a key concern for c developers multithreaded code helps you create effective scalable and responsive applications this is an easy to follow guide that will show you difficult programming problems in context you will learn how to solve them with practical hands on recipes with these recipes you ll be able to start creating your own scalable and reliable multithreaded applications starting from learning what a thread is we guide you through the

basics and then move on to more advanced concepts such as task parallel libraries c asynchronous functions and much more rewritten to the latest c specification c 6 and updated with new and modern recipes to help you make the most of the hardware you have available this book will help you push the boundaries of what you thought possible in c style and approach this is an easy to follow guide full of hands on examples of real world multithreading tasks each topic is explained and placed in context and for the more inquisitive there are also more in depth details of the concepts used

implement effective programming techniques in python to build scalable software that saves time and memory key features design distributed computing systems and massive computational tasks coherently learn practical recipes with concise explanations that address development pain points encountered while coding parallel programs understand how to host your parallelized applications on the cloud book description nowadays it has become extremely important for programmers to understand the link between the software and the parallel nature of their hardware so that their programs run efficiently on computer architectures applications based on parallel programming are fast robust and easily scalable this updated edition features cutting edge techniques for building effective concurrent applications in python 3 7 the book introduces parallel programming architectures and covers the fundamental recipes for thread based and process based parallelism you ll learn about mutex semaphores locks queues exploiting the threading and multiprocessing modules all of which are basic tools to build parallel applications recipes on mpi programming will help you to synchronize processes using the fundamental message passing techniques with mpi4py furthermore you ll get to grips with asynchronous programming and how to use the power of the gpu with pycuda and pyopencl frameworks finally you ll explore how to design distributed computing systems with celery and architect python apps on the cloud using pythonanywhere

docker and serverless applications by the end of this book you will be confident in building concurrent and high performing applications in python what you will learn synchronize multiple threads and processes to manage parallel tasks use message passing techniques to establish communication between processes to build parallel applications program your own gpu cards to address complex problems manage computing entities to execute distributed computational task write efficient programs by adopting the event driven programming model explore cloud technology with django and google app engine apply parallel programming techniques that can lead to performance improvements who this book is for the python parallel programming cookbook is for software developers who are well versed with python and want to use parallel programming techniques to write powerful and efficient code this book will help you master the basics and the advanced of parallel computing

quick solutions to common programming problems with the latest features of c 7 0 net core 1 1 and visual studio 2017 about this book easy to follow recipes to get you up and running with the new features of c 7 and net core 1 1 practical solutions to assist you with microservices and serverless computing in c explore the new visual studio environment and write more secure code in it who this book is for the book will appeal to c and net developers who have a basic familiarity with c and the visual studio 2015 environment what you will learn writing better and less code to achieve the same result as in previous versions of c working with analyzers in visual studio working with files streams and serialization writing high performant code in c and understanding multi threading demystifying the rx library using reactive extensions exploring net core 1 1 and asp net mvc securing your applications and learning new debugging techniques designing and building a microservice architecture using azure and aws for serverless computing with c in detail c has recently been open sourced and c 7 comes with a host of new features for building powerful cross platform applications

this book will be your solution to some common programming problems that you come across with c and will also help you get started with net core 1 1 through a recipe based approach this book will help you overcome common programming challenges and get your applications ready to face the modern world we start by running you through new features in c 7 such as tuples pattern matching and so on giving you hands on experience with them moving forward you will work with generics and the oop features in c you will then move on to more advanced topics such as reactive extensions regex code analyzers and asynchronous programming this book will also cover new cross platform net core 1 1 features and teach you how to utilize net core on macos then we will explore microservices as well as serverless computing and how these benefit modern developers finally you will learn what you can do with visual studio 2017 to put mobile application development across multiple platforms within the reach of any developer style and approach a unique recipe based guide that will help you gain a solid understanding of the new concepts in c 7 0 and visual studio 2017

java 7 concurrency cookbook is a practical cookbook packed with real world solutions intermediate advanced level java developers will learn from task based recipes to use java s concurrent api to program thread safe solutions if you are a java developer who wants to take your knowledge of concurrent programming and multithreading further as well as discover the new concurrency features of java 7 then java 7 concurrency cookbook is for you you should already be comfortable with general java development practices and a basic grasp of threads would be an advantage

this book contains practical recipes on everything you will need to create task based parallel programs using c net 4 5 and visual studio the book is packed with illustrated code examples to create scalable programs this book is intended to help experienced c developers write

applications that leverage the power of modern multicore processors it provides the necessary knowledge for an experienced c developer to work with net parallelism aps previous experience of writing multithreaded applications is not necessary

master the art of fast effective java development with the power of concurrent and parallel programming about this book get detailed coverage of important recipes on multi threading and parallel programming this book takes a close look at the java 9 aps and their impact on concurrency see practical examples on thread safety high performance classes safe sharing and a whole lot more who this book is for the book is for java developers and programmers at an intermediate to advanced level it will be especially useful for developers who want to take advantage of task based recipes using java 9 s concurrent api to program thread safe solutions what you will learn find out to manage the basic components of the java concurrency api use synchronization mechanisms to avoid data race conditions and other problems of concurrent applications separate the thread management from the rest of the application with the executor framework solve problems using a parallelized version of the divide and conquer paradigm with the fork join framework process massive data sets in an optimized way using streams and reactive streams see which data structures we can use in concurrent applications and how to use them practice efficient techniques to test concurrent applications get to know tips and tricks to design concurrent applications in detail writing concurrent and parallel programming applications is an integral skill for any java programmer java 9 comes with a host of fantastic features including significant performance improvements and new aps this book will take you through all the new aps showing you how to build parallel and multi threaded applications the book covers all the elements of the java concurrency api with essential recipes that will help you take advantage of the exciting new capabilities you will learn how to use parallel and reactive streams to process massive

data sets next you will move on to create streams and use all their intermediate and terminal operations to process big collections of data in a parallel and functional way further you'll discover a whole range of recipes for almost everything such as thread management synchronization executors parallel and reactive streams and many more at the end of the book you will learn how to obtain information about the status of some of the most useful components of the java concurrency api and how to test concurrent applications using different tools style and approach this recipe based book will allow you to explore the exciting capabilities of concurrency in java after reading this book you will be able to comfortably build parallel applications in java 9

create robust and scalable applications along with responsive ui using concurrency and the multi threading infrastructure in net and c about this book learn to combine your asynchronous operations with task parallel library master c's asynchronous infrastructure and use asynchronous apis effectively to achieve optimal responsiveness of the application an easy to follow example based guide that helps you to build scalable applications using concurrency in c who this book is for if you are a c developer who wants to develop modern applications in c and wants to overcome problems by using asynchronous apis and standard patterns then this book is ideal for you reasonable development knowledge an understanding of core elements and applications related to the net platform and also the fundamentals of concurrency is assumed what you will learn apply general multithreading concepts to your application's design leverage lock free concurrency and learn about its pros and cons to achieve efficient synchronization between user threads combine your asynchronous operations with task parallel library make your code easier with c's asynchrony support use common concurrent collections and programming patterns write scalable and robust server side asynchronous code create fast and responsible client applications avoid common

problems and troubleshoot your multi threaded and asynchronous applications in detail starting with the traditional approach to concurrency you will learn how to write multithreaded concurrent programs and compose ways that won't require locking you will explore the concepts of parallelism granularity and fine grained and coarse grained parallel tasks by choosing a concurrent program structure and parallelizing the workload optimally you will also learn how to use task parallel library cancellations timeouts and how to handle errors you will know how to choose the appropriate data structure for a specific parallel algorithm to achieve scalability and performance further you'll learn about server scalability asynchronous i/o and thread pools and write responsive traditional windows and windows store applications by the end of the book you will be able to diagnose and resolve typical problems that could happen in multithreaded applications style and approach an easy to follow example based guide that will walk you through the core principles of concurrency and multithreading using c over 80 recipes that will take your php 7 web development skills to the next level about this book this is the most up to date book in the market on php it covers the new features of version 7 x best practices for server side programming and mvc frameworks the recipe based approach will allow you to explore the unique capabilities that php offers to web programmers who this book is for if you are an aspiring web developer mobile developer or backend programmer then this book is for you as it will take your php programming skills to next level basic knowledge of php programming is assumed what you will learn use advanced php 7 features such as the abstract syntax tree uniform variable syntax scalar type hints generator delegation anonymous classes and the context sensitive lexer discover where and when php 5 code needs to be re written to avoid backwards compatibility breaks improve the overall application security and error handling by taking advantage of classes that implement the new throwable interface solve practical real world programming problems

using php 7 develop middle wareclasses that allow php developers to gluedifferent open source libraries together seamlessly define and implement psr 7 classes create custom middleware using psr 7 compliant classes test and debug your code and get to know the best practices in detail php 7 comes with a myriad of new features and great tools to optimize your code and make your code perform faster than in previous versions most importantly it allows you to maintain high traffic on your websites with low cost hardware and servers through a multithreading web server this book demonstrates intermediate to advanced php techniques with a focus on php 7 each recipe is designed to solve practical real world problems faced by php developers like yourself every day we also cover new ways of writing php code made possible only in version 7 in addition we discuss backward compatibility breaks and give you plenty of guidance on when and where php 5 code needs to be changed to produce the correct results when running under php 7 this book also incorporates the latest php 7 x features by the end of the book you will be equipped with the tools and skills required to deliver efficient applications for your websites and enterprises style and approach this book takes a recipe based approach with real world examples that can serve as building blocks for a larger application each recipe is self contained with no external dependencies this book follows a problem solution strategy so you understand how to deal with various scenarios you may encounter while using php 7 in your daily activities

a practical book filled with advanced recipes as well as plenty of code and real life examples which will make your learning curve quick and easy if you are a software developer who wants to develop distributed applications based on messaging then this book is for you it s assumed that you have some experience with multithreading applications and distributed applications you are also expected to know the basic concepts of and cloud applications in order to follow the recipes effectively

if you're one of many developers still uncertain about concurrent and multithreaded development this practical cookbook will change your mind with more than 85 code rich recipes in this updated second edition author stephen cleary demonstrates parallel processing and asynchronous programming techniques using libraries and language features in net and c# 8.0 concurrency is now more common in responsive and scalable application development but it's still extremely difficult to code the detailed solutions in this cookbook show you how modern tools raise the level of abstraction making concurrency much easier than before complete with ready to use code and discussions about how and why solutions work these recipes help you get up to speed on concurrency and async and parallel programming use `async` and `await` for asynchronous operations enhance your code with asynchronous streams explore parallel programming with net's task parallel library create dataflow pipelines with net's `TPL Dataflow` library understand the capabilities that system reactive builds on top of linq utilize threadsafe and immutable collections learn how to conduct unit testing with concurrent code make the thread pool work for you enable clean cooperative cancellation examine scenarios for combining concurrent approaches dive into asynchronous friendly object oriented programming recognize and write adapters for code using older asynchronous styles

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