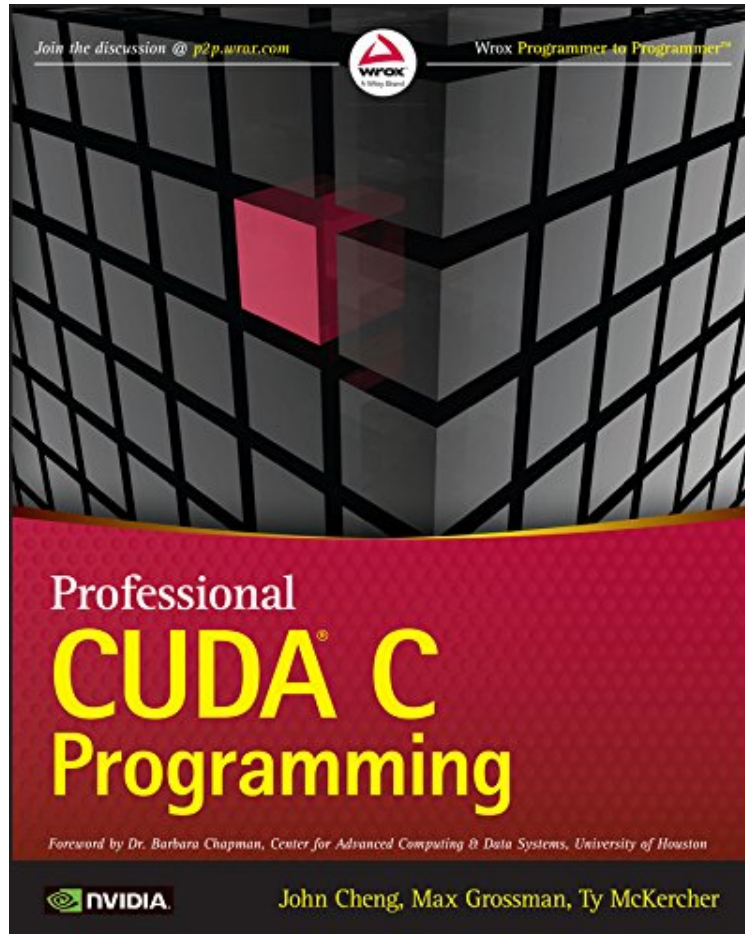


(Library ebook) Professional CUDA C Programming

Professional CUDA C Programming

Von John Cheng, Max Grossman, Ty McKercher
ePub | *DOC | audiobook | ebooks | Download PDF



Produktinformation -Verkaufsrank: #359353 in eBooksVerffentlicht am: 2014-09-08Erscheinungsdatum:
2014-09-08File Name: B00NGK1LE0 | File size: 47.Mb

Von John Cheng, Max Grossman, Ty McKercher : Professional CUDA C Programming before purchasing it in order to gage whether or not it would be worth my time, and all praised Professional CUDA C Programming:

KundenrezensionenHilfreichste Kundenrezensionen0 von 0 Kunden fanden die folgende Rezension hilfreich. Professional CUDA C Programming ...Von Seick85Sehr gutes Buch fr Experten im Bereich der parallelen Programmierung mit ausfhrlichem Vorwissen im Bereich C++ . Fr Anfnger ist es unbrauchbar, weil zu schwer.Die Beispiele sind leider nicht ganz frei von Fehlern (aber nur kleine Fehler). Auerdem sind die Codebeispiele fr Linux. Idealerweise hat man eine Nvidia GPU mit mindestens 4 GB Speicher, weil einige Beispiele nun mal viel Speicher bentigen (sollte bei einem HPC Buch ja niemanden berraschen). Das aber nur als Hinweis.Fazit: Gutes Buch!0 von 0 Kunden fanden die folgende Rezension hilfreich. CUDA CVon LinuxTestEin muss fr CUDA Programmierung , gibt einen hervorragenden Einblick in die GPU Programmierung mit dem CUDA SDK, Top Buch

Kurzbeschreibung Break into the powerful world of parallel GPU programming with this down-to-earth, practical guide. Designed for professionals across multiple industrial sectors, Professional CUDA C Programming presents CUDA -- a parallel computing platform and programming model designed to ease the development of GPU programming -- fundamentals in an easy-to-follow format, and teaches readers how to think in parallel and implement parallel algorithms on GPUs. Each chapter covers a specific topic, and includes workable examples that demonstrate the development process, allowing readers to explore both the "hard" and "soft" aspects of GPU programming. Computing architectures are experiencing a fundamental shift toward scalable parallel computing motivated by application requirements in industry and science. This book demonstrates the challenges of efficiently utilizing compute resources at peak performance, presents modern techniques for tackling these challenges, while increasing accessibility for professionals who are not necessarily parallel programming experts. The CUDA programming model and tools empower developers to write high-performance applications on a scalable, parallel computing platform: the GPU. However, CUDA itself can be difficult to learn without extensive programming experience. Recognized CUDA authorities John Cheng, Max Grossman, and Ty McKercher guide readers through essential GPU programming skills and best practices in Professional CUDA C Programming, including: CUDA Programming Model GPU Execution Model GPU Memory model Streams, Event and Concurrency Multi-GPU Programming CUDA Domain-Specific Libraries Profiling and Performance Tuning. The book makes complex CUDA concepts easy to understand for anyone with knowledge of basic software development with exercises designed to be both readable and high-performance. For the professional seeking entrance to parallel computing and the high-performance computing community, Professional CUDA C Programming is an invaluable resource, with the most current information available on the market.

Kurzbeschreibung Break into the powerful world of parallel GPU programming with this down-to-earth, practical guide. Designed for professionals across multiple industrial sectors, Professional CUDA C Programming presents CUDA -- a parallel computing platform and programming model designed to ease the development of GPU programming -- fundamentals in an easy-to-follow format, and teaches readers how to think in parallel and implement parallel algorithms on GPUs. Each chapter covers a specific topic, and includes workable examples that demonstrate the development process, allowing readers to explore both the "hard" and "soft" aspects of GPU programming. Computing architectures are experiencing a fundamental shift toward scalable parallel computing motivated by application requirements in industry and science. This book demonstrates the challenges of efficiently utilizing compute resources at peak performance, presents modern techniques for tackling these challenges, while increasing accessibility for professionals who are not necessarily parallel programming experts. The CUDA programming model and tools empower developers to write high-performance applications on a scalable, parallel computing platform: the GPU. However, CUDA itself can be difficult to learn without extensive programming experience. Recognized CUDA authorities John Cheng, Max Grossman, and Ty McKercher guide readers through essential GPU programming skills and best practices in Professional CUDA C Programming, including: CUDA Programming Model GPU Execution Model GPU Memory model Streams, Event and Concurrency Multi-GPU Programming CUDA Domain-Specific Libraries Profiling and Performance Tuning. The book makes complex CUDA concepts easy to understand for anyone with knowledge of basic software development with exercises designed to be both readable and high-performance. For the professional seeking entrance to parallel computing and the high-performance computing community, Professional CUDA C Programming is an invaluable resource, with the most current information available on the market.

Buchrückseite Break into the powerful world of parallel computing. Focused on the essential aspects of CUDA, Professional CUDA C Programming offers down-to-earth coverage of parallel computing. Packed with examples and exercises that help you see code, real-world applications, and try out new skills, this resource makes the complex concepts of parallel computing accessible and easy to understand. Each chapter is organized around one central topic, and includes workable examples that demonstrate the development process, allowing you to measure significant performance gains while exploring all aspects of GPU programming.

Professional CUDA C Programming:

- * Focuses on GPU programming skills and best practices that deliver outstanding performance*
- * Shows you how to think in parallel*
- * Turns complex subjects into easy-to-understand concepts*
- * Makes information accessible across multiple industrial sectors*
- * Features helpful examples and exercises in each chapter*
- * Covers the essentials for those who are not experts in C programming

Programmer Forums Join our Programmer to Programmer forums to ask and answer programming questions about this book, join discussions on the hottest topics in the industry, and connect with fellow programmers from around the world.

Code Downloads Take advantage of free code samples from this book, as well as code samples from hundreds of other books, all ready to use.

Read More Find articles, e-books, sample chapters, and tables of contents for hundreds of books, and more reference resources on programming topics that matter to you.