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Autore	Cheng John
Titolo	Professional CUDA C Programming [[electronic resource]]
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Altri autori (Persone)	GrossmanMax McKercherTy
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1.

	the Best GPU; Using nvidia-smi to Query GPU Information; Setting Devices at Runtime; Summary; Chapter 3 CUDA Execution Model; Introducing the CUDA Execution Model; GPU Architecture Overview The Fermi ArchitectureThe Kepler Architecture; Profile-Driven Optimization; Understanding the Nature of Warp Execution; Warps and Thread Blocks; Warp Divergence; Resource Partitioning; Latency Hiding; Occupancy; Synchronization; Scalability; Exposing Parallelism; Checking Active Warps with nvprof; Checking Memory Operations with nvprof; Exposing More Parallelism; Avoiding Branch Divergence; The Parallel Reduction Problem; Divergence in Parallel Reduction; Improving Divergence in Parallel Reduction; Reducing with Interleaved Pairs; Unrolling Loops; Reducing with Unrolling Reducing with Unrolled WarpsReducing with Complete Unrolling; Reducing with Template Functions; Dynamic Parallelism; Nested Execution; Nested Hello World on the GPU; Nested Reduction; Summary; Chapter 4 Global Memory; Introducing the CUDA Memory Model; Benefits of a Memory Hierarchy; CUDA Memory Model; Memory Management; Memory Allocation and Deallocation; Memory Transfer; Pinned Memory; Zero-Copy Memory; Unified Virtual Addressing; Unified Memory; Memory Access Patterns; Aligned and Coalesced Access; Global Memory Reads; Global Memory Writes; Array of Structures versus Structure of Arrays Performance TuningWhat Bandwidth Can a Kernel Achieve?; Memory Bandwidth; Matrix Transpose Problem; Matrix Addition with Unified Memory; Summary; Chapter 5 Shared Memory; Shared Memory; Introducing CUDA Shared Memory; Synchronization; Checking the Data Layout of Shared Memory; Synchronization; Checking the Data Layout of Shared Memory; Synchronization; Checking the Data Layout of Shared Memory; Parallel Reduction with Unrolling Parallel Reduction with Dynamic Shared Memory
Sommario/riassunto	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 "

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ISBN	1-62023-192-1
Descrizione fisica	1 online resource (232 pages)
Disciplina	378.17
Disciplina Soggetti	378.17 Study skills
Disciplina Soggetti	378.17 Study skills College student orientation
Disciplina Soggetti Lingua di pubblicazione	378.17 Study skills College student orientation Inglese
Disciplina Soggetti Lingua di pubblicazione Formato	378.17 Study skills College student orientation Inglese Materiale a stampa
Disciplina Soggetti Lingua di pubblicazione Formato Livello bibliografico	378.17 Study skills College student orientation Inglese Materiale a stampa Monografia

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