

Lineup	GeForce	Tesla	Quadro
Name	RTX 2080 Ti	V100	RTX 8000
Generation	7.5 (Turing)	7.0 (Volta)	7.5 (Turing)
Picture			
FP32	11,750 GFLOPS	14,899 GFLOPS	16,300 GFLOPS
FP64	367 GFLOPS	7,450 GFLOPS	510 GFLOPS
Memory	11GB (GDDR6)	32GB (HBM2)	48GB (GDDR6)
Bandwidth	616GB/s	900GB/s	672GB/s
Power	250W	250W	295W
MSRP	\$ 999	\$ 10,000	\$ 5,500

# Nvidia Gpu Top Download

**Tolga Soyata**

## Nvidia Gpu Top Download:

**Deep Learning with Microsoft Cognitive Toolkit Quick Start Guide** Willem Meints,2019-03-28 Learn how to train popular deep learning architectures such as autoencoders convolutional and recurrent neural networks while discovering how you can use deep learning models in your software applications with Microsoft Cognitive Toolkit Key FeaturesUnderstand the fundamentals of Microsoft Cognitive Toolkit and set up the development environment Train different types of neural networks using Cognitive Toolkit and deploy it to productionEvaluate the performance of your models and improve your deep learning skillsBook Description Cognitive Toolkit is a very popular and recently open sourced deep learning toolkit by Microsoft Cognitive Toolkit is used to train fast and effective deep learning models This book will be a quick introduction to using Cognitive Toolkit and will teach you how to train and validate different types of neural networks such as convolutional and recurrent neural networks This book will help you understand the basics of deep learning You will learn how to use Microsoft Cognitive Toolkit to build deep learning models and discover what makes this framework unique so that you know when to use it This book will be a quick no nonsense introduction to the library and will teach you how to train different types of neural networks such as convolutional neural networks recurrent neural networks autoencoders and more using Cognitive Toolkit Then we will look at two scenarios in which deep learning can be used to enhance human capabilities The book will also demonstrate how to evaluate your models performance to ensure it trains and runs smoothly and gives you the most accurate results Finally you will get a short overview of how Cognitive Toolkit fits in to a DevOps environment What you will learnSet up your deep learning environment for the Cognitive Toolkit on Windows and LinuxPre process and feed your data into neural networksUse neural networks to make efficient predictions and recommendationsTrain and deploy efficient neural networks such as CNN and RNNDetect problems in your neural network using TensorBoardIntegrate Cognitive Toolkit with Azure ML Services for effective deep learningWho this book is for Data Scientists Machine learning developers AI developers who wish to train and deploy effective deep learning models using Microsoft CNTK will find this book to be useful Readers need to have experience in Python or similar object oriented language like C or Java

**Deep Learning on Embedded Systems** Tariq M. Arif,2025-04-29 Comprehensive accessible introduction to deep learning for engineering tasks through Python programming low cost hardware and freely available software Deep Learning On Embedded Systems is a comprehensive guide to the practical implementation of deep learning for engineering tasks through computers and embedded hardware such as Raspberry Pi and Nvidia Jetson Nano After an introduction to the field the book provides fundamental knowledge on deep learning convolutional and recurrent neural networks computer vision and basics of Linux terminal and docker engines This book shows detailed setup steps of Jetson Nano and Raspberry Pi for utilizing essential frameworks such as PyTorch and OpenCV GPU configuration and dependency installation procedure for using PyTorch is also discussed allowing newcomers to seamlessly navigate the learning curve A

key challenge of utilizing deep learning on embedded systems is managing limited GPU and memory resources This book outlines a strategy of training complex models on a desktop computer and transferring them to embedded systems for inference Also students and researchers often face difficulties with the varying probabilistic theories and notations found in data science literature To simplify this the book mainly focuses on the practical implementation part of deep learning using Python programming low cost hardware and freely available software such as Anaconda and Visual Studio Code To aid in reader learning questions and answers are included at the end of most chapters Written by a highly qualified author Deep Learning On Embedded Systems includes discussion on Fundamentals of deep learning including neurons and layers activation functions network architectures hyperparameter tuning and convolutional and recurrent neural networks CNNs RNNs PyTorch OpenCV and other essential framework setups for deep transfer learning along with Linux terminal operations docker engine docker images and virtual environments in embedded devices Training models for image classification and object detection with classification then converting trained PyTorch models to ONNX format for efficient deployment on Jetson Nano and Raspberry Pi Deep Learning On Embedded Systems serves as an excellent introduction to the field for undergraduate engineering students seeking to learn deep learning implementations for their senior capstone or class projects and graduate researchers and educators who wish to implement deep learning in their research

*Machine Learning and Deep Learning in Real-Time Applications* Mahrishi, Mehul, Hiran, Kamal Kant, Meena, Gaurav, Sharma, Paawan, 2020-04-24 Artificial intelligence and its various components are rapidly engulfing almost every professional industry Specific features of AI that have proven to be vital solutions to numerous real world issues are machine learning and deep learning These intelligent agents unlock higher levels of performance and efficiency creating a wide span of industrial applications However there is a lack of research on the specific uses of machine deep learning in the professional realm Machine Learning and Deep Learning in Real Time Applications provides emerging research exploring the theoretical and practical aspects of machine learning and deep learning and their implementations as well as their ability to solve real world problems within several professional disciplines including healthcare business and computer science Featuring coverage on a broad range of topics such as image processing medical improvements and smart grids this book is ideally designed for researchers academicians scientists industry experts scholars IT professionals engineers and students seeking current research on the multifaceted uses and implementations of machine learning and deep learning across the globe

*The PC and Gadget Help Desk* Mark Edward Soper, 2014-10-04 A Do It Yourself Guide To Troubleshooting and Repairing Your EASY comprehensive technology troubleshooter PCs smartphones tablets networks cameras home theater and more all in one book We all use technology and we all have problems with it Don t get frustrated and don t waste money on costly repair or support calls Solve the problems yourself with the one guide that makes it easy The PC and Gadget Help Desk Using clear pictures handy symptom tables and easy to use flowcharts Mark Edward Soper walks you step by step through identifying

solving and preventing hundreds of today's most aggravating tech problems. Soper covers all your major platforms: iPhones, iPads, Android devices, Windows systems, and more. He even helps you fix the weird problems that happen when you use them together. Regain lost Internet access and fix broken Wi-Fi connections. Solve problems with viewing and sharing media or other files. Track down power problems wherever they arise. Troubleshoot printing problems and print from smartphones or tablets. Fix missing video or audio on your HDTV or home theater system. Get syncing working right on your Apple or Android device. Improve your PC's 3D gaming performance. Identify and replace flaky memory chips. Prevent overheating that can damage your equipment. Solve common problems with digital cameras and DV camcorders. Troubleshoot iOS or Android antennas, updates, screens, and connectivity. Get FaceTime working right on your iPhone or iPad. Troubleshoot eReaders and display your eBooks on additional devices. Sensibly decide whether to upgrade, repair, or replace.

Mark Edward Soper has spent 30 years as an instructor and corporate trainer helping thousands of people work more happily with personal technology. He is the author of *PC Help Desk in a Book* and is the co-author of *Leo Laporte's PC Help Desk* as well as more than 25 other books on Windows, digital imaging, networking, the Internet, IT certification, and computer troubleshooting. Soper is a CompTIA A Certified computer technician and Microsoft Certified Professional. **BONUS ONLINE VIDEOS** Includes access to free studio-quality how-to videos that make troubleshooting and repair even easier.

**Dive into Deep Learning** Aston Zhang, Zachary C. Lipton, Mu Li, Alexander J. Smola, 2023-12-07

An approachable text combining the depth and quality of a textbook with the interactive multi-framework code of a hands-on tutorial.

**Autodesk Revit for Architecture Certified User Exam Preparation (Revit 2025 Edition)** Daniel John Stine, This book will prepare you to pass the Revit Certified User Exam on your first try. Comes with practice exam software that simulates an actual exam. Describes the main topics you need to be familiar with to pass the exam. Gives an overview of the exam process. Designed for users with about 150 hours of instruction and real-world Revit experience. In the competitive world in which we live, it is important to stand out to potential employers and prove your capabilities. One way to do this is by passing one of the Autodesk Certification Exams. A candidate who passes an exam has credentials from the makers of the software which indicate you know how to use their software. This can help give you an edge over other potential interviewees when applying for a job. Autodesk Revit for Architecture Certified User Exam Preparation is intended for the Revit user who has about 150 hours of instruction and real-world experience with Autodesk Revit software. This book will help guide you in your preparation for the Autodesk Certified User Revit for Architecture exam. By passing this exam, you are validating your Revit skills and are well on your way to the next level of your education or career. Throughout the book, you will find an overview of the exam process, the user interface, and the four main topics: Creating and Modifying Components, Modeling and Modifying Elements, Managing Views, and Managing Documentation. The specific topics you need to be familiar with to pass the test are explained in greater detail throughout the book. At the end of the book, there is a sample multiple-choice practice test to self-assess your readiness for the exam. You also

get access to sample exam software which simulates the actual exam This book will help you pass the Autodesk Certified User exam on the first try so you can avoid repeatedly taking the exam and obtain your certification sooner Practice Exam Software In addition to the sample test questions included in the book practice exam software is also provided The practice exam software is meant to simulate the actual Revit Architecture Certified User exam It can be downloaded and run from any computer The practice exam software will get you familiar with the official exam and check your skills prior to taking the official exam The practice exam software requires you to use Autodesk Revit to perform actions in order to formulate the answer to questions just like the actual exam The questions in the practice exam software are categorized into four groups which align with the four official main topics Creating and Modifying Components Modeling and Modifying Elements

Managing Views and Managing Documentation Upon completing the quiz an overall score is provided as well as a score for each topic If you get a question wrong a page number in the book is provided to help you further review the topic The practice exam software will help you with the following Understanding the test software How to mark and return to questions Exam question format Live in application steps How the results are presented at the exam conclusion Storage Systems

Alexander Thomassian,2021-10-13 Storage Systems Organization Performance Coding Reliability and Their Data Processing was motivated by the 1988 Redundant Array of Inexpensive Independent Disks proposal to replace large form factor mainframe disks with an array of commodity disks Disk loads are balanced by striping data into strips with one strip per disk and storage reliability is enhanced via replication or erasure coding which at best dedicates  $k$  strips per stripe to tolerate  $k$  disk failures Flash memories have resulted in a paradigm shift with Solid State Drives SSDs replacing Hard Disk Drives HDDs for high performance applications RAID and Flash have resulted in the emergence of new storage companies namely EMC NetApp SanDisk and Purestorage and a multibillion dollar storage market Key new conferences and publications are reviewed in this book The goal of the book is to expose students researchers and IT professionals to the more important developments in storage systems while covering the evolution of storage technologies traditional and novel databases and novel sources of data We describe several prototypes FAWN at CMU RAMCloud at Stanford and Lightstore at MIT Oracle's Exadata AWS Aurora Alibaba's PolarDB Fungible Data Center and author's paper designs for cloud storage namely heterogeneous disk arrays and hierarchical RAID Surveys storage technologies and lists sources of data measurements text audio images and video Familiarizes with paradigms to improve performance caching prefetching log structured file systems and merge trees LSMs Describes RAID organizations and analyzes their performance and reliability Conserves storage via data compression deduplication compaction and secures data via encryption Specifies implications of storage technologies on performance and power consumption Exemplifies database parallelism for big data analytics deep learning via multicore CPUs GPUs FPGAs and ASICs e.g Google's Tensor Processing Units The Visual Data Language - The KNIME Way Dennis Ganzaroli,2025-08-19 For Business Analysts and Data Professionals who want to get real work done and see results You don't

need any prior coding knowledge to get started With KNIME Analytics Platform you connect nodes that tell the story of your data and reveal insights step by step through real world workflows such as Personal Finance track and analyze your expenses with Excel and KNIME Sales Reporting transform raw sales data into dashboards and insights Weather Analysis loop through datasets and APIs to compare trends Financial Data retrieve and analyze stock prices for market tracking Sports Analytics apply predictive models to football match outcomes Advanced Visualization recreate Minard's iconic chart with KNIME KAI and Python Along the way you'll also set up your own productive data science infrastructure choosing the right operating system software packages and even configuring a dedicated workstation tailored to your needs This book is the practical guide to data science that helps you focus on what matters solving real problems sharing clear workflows and building confidence in your daily work Start your journey into visual data science today discover *The KNIME Way*

*PC Magazine*, 2004   *Portable Design*, 2002   **CUDA by Example** Jason Sanders, Edward Kandrot, 2010-07-19 CUDA is a computing architecture designed to facilitate the development of parallel programs In conjunction with a comprehensive software platform the CUDA Architecture enables programmers to draw on the immense power of graphics processing units GPUs when building high performance applications GPUs of course have long been available for demanding graphics and game applications CUDA now brings this valuable resource to programmers working on applications in other domains including science engineering and finance No knowledge of graphics programming is required just the ability to program in a modestly extended version of C CUDA by Example written by two senior members of the CUDA software platform team shows programmers how to employ this new technology The authors introduce each area of CUDA development through working examples After a concise introduction to the CUDA platform and architecture as well as a quick start guide to CUDA C the book details the techniques and trade offs associated with each key CUDA feature You'll discover when to use each CUDA C extension and how to write CUDA software that delivers truly outstanding performance Major topics covered include Parallel programming Thread cooperation Constant memory and events Texture memory Graphics interoperability Atomics Streams CUDA C on multiple GPUs Advanced atomics Additional CUDA resources All the CUDA software tools you'll need are freely available for download from NVIDIA <http://developer.nvidia.com/object/cuda-by-example.html>   **Professional CUDA C Programming** John Cheng, Max Grossman, Ty Mcckercher, 2014-09-09 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 and 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.

*General-Purpose Graphics Processor Architectures* Tor M. Aamodt, Wilson Wai Lun Fung, Timothy G. Rogers, 2022-05-31. Originally developed to support video games graphics processor units (GPUs) are now increasingly used for general purpose non graphics applications ranging from machine learning to mining of cryptographic currencies. GPUs can achieve improved performance and efficiency versus central processing units (CPUs) by dedicating a larger fraction of hardware resources to computation. In addition their general purpose programmability makes contemporary GPUs appealing to software developers in comparison to domain specific accelerators. This book provides an introduction to those interested in studying the architecture of GPUs that support general purpose computing. It collects together information currently only found among a wide range of disparate sources. The authors led development of the GPGPU-Sim simulator, widely used in academic research on GPU architectures. The first chapter of this book describes the basic hardware structure of GPUs and provides a brief overview of their history. Chapter 2 provides a summary of GPU programming models relevant to the rest of the book. Chapter 3 explores the architecture of GPU compute cores. Chapter 4 explores the architecture of the GPU memory system. After describing the architecture of existing systems, Chapters 3 and 4 provide an overview of related research. Chapter 5 summarizes cross cutting research impacting both the compute core and memory system. This book should provide a valuable resource for those wishing to understand the architecture of graphics processor units (GPUs) used for acceleration of general purpose applications and to those who want to obtain an introduction to the rapidly growing body of research exploring how to improve the architecture of these GPUs.

*CUDA Fortran for Scientists and Engineers* Gregory Ruetsch, Massimiliano Fatica, 2013-09-11. CUDA Fortran for Scientists and Engineers shows how high performance application developers can leverage the power of GPUs using Fortran, the familiar language of scientific computing and supercomputer performance benchmarking. The authors presume no prior parallel computing

experience and cover the basics along with best practices for efficient GPU computing using CUDA Fortran To help you add CUDA Fortran to existing Fortran codes the book explains how to understand the target GPU architecture identify computationally intensive parts of the code and modify the code to manage the data and parallelism and optimize performance All of this is done in Fortran without having to rewrite in another language Each concept is illustrated with actual examples so you can immediately evaluate the performance of your code in comparison Leverage the power of GPU computing with PGI s CUDA Fortran compiler Gain insights from members of the CUDA Fortran language development team Includes multi GPU programming in CUDA Fortran covering both peer to peer and message passing interface MPI approaches Includes full source code for all the examples and several case studies Download source code and slides from the book s companion website **GPU Parallel Program Development Using CUDA** Tolga Soyata,2018-01-19 GPU Parallel Program Development using CUDA teaches GPU programming by showing the differences among different families of GPUs This approach prepares the reader for the next generation and future generations of GPUs The book emphasizes concepts that will remain relevant for a long time rather than concepts that are platform specific At the same time the book also provides platform dependent explanations that are as valuable as generalized GPU concepts The book consists of three separate parts it starts by explaining parallelism using CPU multi threading in Part I A few simple programs are used to demonstrate the concept of dividing a large task into multiple parallel sub tasks and mapping them to CPU threads Multiple ways of parallelizing the same task are analyzed and their pros cons are studied in terms of both core and memory operation Part II of the book introduces GPU massive parallelism The same programs are parallelized on multiple Nvidia GPU platforms and the same performance analysis is repeated Because the core and memory structures of CPUs and GPUs are different the results differ in interesting ways The end goal is to make programmers aware of all the good ideas as well as the bad ideas so readers can apply the good ideas and avoid the bad ideas in their own programs Part III of the book provides pointer for readers who want to expand their horizons It provides a brief introduction to popular CUDA libraries such as cuBLAS cuFFT NPP and Thrust the OpenCL programming language an overview of GPU programming using other programming languages and API libraries such as Python OpenCV OpenGL and Apple s Swift and Metal and the deep learning library cuDNN *The CUDA Handbook* Nicholas Wilt,2013 The CUDA Handbook begins where CUDA by Example leaves off discussing both CUDA hardware and software in detail that will engage any CUDA developer from the casual to the most hardcore Newer CUDA developers will see how the hardware processes commands and the driver checks progress hardcore CUDA developers will appreciate topics such as the driver API context migration and how best to structure CPU GPU data interchange and synchronization The book is partly a reference resource and partly a cookbook Hands-On GPU Programming with Python and CUDA Dr. Brian Tuomanen,2018-11-27 Build real world applications with Python 2 7 CUDA 9 and CUDA 10 We suggest the use of Python 2 7 over Python 3 x since Python 2 7 has stable support across all the libraries we use in this book Key

FeaturesExpand your background in GPU programming PyCUDA scikit cuda and NsightEffectively use CUDA libraries such as cuBLAS cuFFT and cuSolverApply GPU programming to modern data science applicationsBook Description Hands On GPU Programming with Python and CUDA hits the ground running you ll start by learning how to apply Amdahl s Law use a code profiler to identify bottlenecks in your Python code and set up an appropriate GPU programming environment You ll then see how to query the GPU s features and copy arrays of data to and from the GPU s own memory As you make your way through the book you ll launch code directly onto the GPU and write full blown GPU kernels and device functions in CUDA C You ll get to grips with profiling GPU code effectively and fully test and debug your code using Nsight IDE Next you ll explore some of the more well known NVIDIA libraries such as cuFFT and cuBLAS With a solid background in place you will now apply your new found knowledge to develop your very own GPU based deep neural network from scratch You ll then explore advanced topics such as warp shuffling dynamic parallelism and PTX assembly In the final chapter you ll see some topics and applications related to GPU programming that you may wish to pursue including AI graphics and blockchain By the end of this book you will be able to apply GPU programming to problems related to data science and high performance computing What you will learnLaunch GPU code directly from PythonWrite effective and efficient GPU kernels and device functionsUse libraries such as cuFFT cuBLAS and cuSolverDebug and profile your code with Nsight and Visual ProfilerApply GPU programming to datascience problemsBuild a GPU based deep neuralnetwork from scratchExplore advanced GPU hardware features such as warp shufflingWho this book is for Hands On GPU Programming with Python and CUDA is for developers and data scientists who want to learn the basics of effective GPU programming to improve performance using Python code You should have an understanding of first year college or university level engineering mathematics and physics and have some experience with Python as well as in any C based programming language such as C C Go or Java

**Hands-On GPU Computing with Python** Avimanyu Bandyopadhyay, 2019-05-14 Explore GPU enabled programmable environment for machine learning scientific applications and gaming using PuCUDA PyOpenGL and Anaconda Accelerate Key

FeaturesUnderstand effective synchronization strategies for faster processing using GPUsWrite parallel processing scripts with PyCuda and PyOpenCLLearn to use the CUDA libraries like CuDNN for deep learning on GPUsBook Description GPUs are proving to be excellent general purpose parallel computing solutions for high performance tasks such as deep learning and scientific computing This book will be your guide to getting started with GPU computing It will start with introducing GPU computing and explain the architecture and programming models for GPUs You will learn by example how to perform GPU programming with Python and you ll look at using integrations such as PyCUDA PyOpenCL CuPy and Numba with Anaconda for various tasks such as machine learning and data mining Going further you will get to grips with GPU work flows management and deployment using modern containerization solutions Toward the end of the book you will get familiar with the principles of distributed computing for training machine learning models and enhancing efficiency and performance

By the end of this book you will be able to set up a GPU ecosystem for running complex applications and data models that demand great processing capabilities and be able to efficiently manage memory to compute your application effectively and quickly. What you will learn: Utilize Python libraries and frameworks for GPU acceleration; Set up a GPU enabled programmable machine learning environment on your system with Anaconda; Deploy your machine learning system on cloud containers with illustrated examples; Explore PyCUDA and PyOpenCL and compare them with platforms such as CUDA, OpenCL and ROCm; Perform data mining tasks with machine learning models on GPUs; Extend your knowledge of GPU computing in scientific applications.

Who this book is for:

Data Scientist, Machine Learning enthusiasts and professionals who want to get started with GPU computation and perform the complex tasks with low latency. Intermediate knowledge of Python programming is assumed.

**Advanced GPU Assembly Programming Second Edition** Gareth Thomas, 2025-10-12

Uncover the fundamentals of GPU architecture and assembly programming with Advanced GPU Assembly Programming, a resource designed for enthusiasts and professionals who want to explore the intricate workings of modern GPUs. This book is not a step by step manual but a gateway to understanding GPU architecture and assembly programming at a foundational level. It's ideal for readers who are ready to invest their own effort to experiment and grow their expertise.

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- 1 Deep Insights into GPU Architecture: Explore the fundamental differences between GPUs and CPUs with a focus on parallelism, memory hierarchies, and threading models.
- 2 Foundations of Assembly Programming: Delve into the mechanics of low-level GPU programming, including execution models, memory access optimization, and pipeline management.
- 3 Tools and Techniques: Get an overview of key debugging and profiling tools such as NVIDIA Nsight and AMD Radeon GPU Profiler.
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Order your copy today and take your first step into the realm of GPU programming mastery.

**CUDA Programming** Shane Cook, 2012-12-28

If you need to learn CUDA but don't have

experience with parallel computing CUDA Programming A Developer's Introduction offers a detailed guide to CUDA with a grounding in parallel fundamentals. It starts by introducing CUDA and bringing you up to speed on GPU parallelism and hardware, then delving into CUDA installation. Chapters on core concepts including threads, blocks, grids and memory focus on both parallel and CUDA specific issues. Later the book demonstrates CUDA in practice for optimizing applications, adjusting to new hardware and solving common problems. Comprehensive introduction to parallel programming with CUDA for readers new to both. Detailed instructions help readers optimize the CUDA software development kit. Practical techniques illustrate working with memory, threads, algorithms, resources and more. Covers CUDA on multiple hardware platforms: Mac, Linux and Windows, with several NVIDIA chipsets. Each chapter includes exercises to test reader knowledge.

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