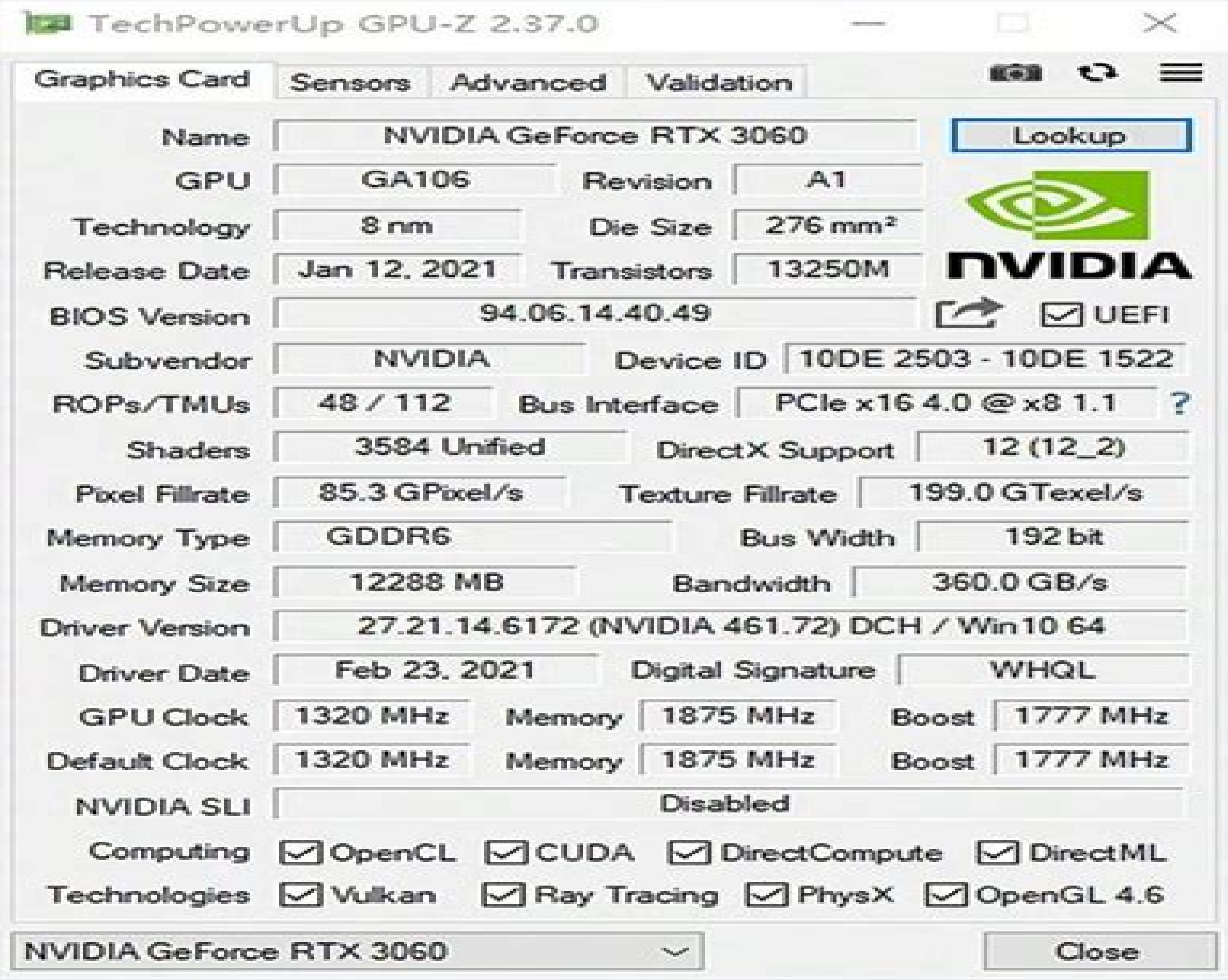
GPU-Z Parameter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Name: NVIDIA GeForce RTX 3060

GPU: GA106 Revision: A1

Technology: 8 nm Die Size: 276 mm²

Release Date: Jan 12, 2021 Transistors: 13250M

BIOS Version: 94.06.14.40.49 ☑ UEFI

Subvendor: NVIDIA Device ID: 10DE 2503 - 10DE 1522

ROPs/TMUs: 48 / 112 Bus Interface: PCIe x16 4.0 @ x8 1.1 ?

Shaders: 3584 Unified DirectX Support: 12 (12_2)

Pixel Fillrate: 85.3 GPixel/s Texture Fillrate: 199.0 GTexel/s

Memory Type: GDDR6 Bus Width: 192 bit

Memory Size: 12288 MB Bandwidth: 360.0 GB/s

Driver Version: 27.21.14.6172 (NVIDIA 461.72) DCH / Win10 64

Driver Date: Feb 23, 2021 Digital Signature: WHQL

GPU Clock: 1320 MHz Memory: 1875 MHz Boost: 1777 MHz

Default Clock: 1320 MHz Memory: 1875 MHz Boost: 1777 MHz

NVIDIA SLI: Disabled

Computing: ☑ OpenCL ☑ CUDA ☑ DirectCompute ☑ DirectML

Technologies: ☑ Vulkan ☑ Ray Tracing ☑ PhysX ☑ OpenGL 4.6

NVIDIA GeForce RTX 3060

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that lead to crashes instability and overheating Each chapter is structured to help you solve real problems and get reliable results Inside the book you will discover 1 Proper installation techniques and cabling methods that ensure stability 2 Clear explanations of CUDA Tensor and RT cores and how they influence performance 3 Safe and effective driver management steps to prevent conflicts and errors 4 Undervolting approaches that improve cooling reduce noise and maintain smooth gameplay 5 Memory tuning methods that enhance stability across demanding titles 6 Practical airflow and thermal management strategies for cooler operation 7 Troubleshooting procedures for crashes artifacts display issues and unstable settings If you want a reliable easy to follow guide that teaches you how to get more performance fewer problems and a longer lifespan from your GPU this book is the solution It shows you how to make smart decisions and gain confidence in your hardware without guesswork Ready to 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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 **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 **GPU Overclocking Guide** Alisa Turing,2025-01-08 The GPU Overclocking Guide delivers a comprehensive exploration of graphics card optimization bridging the gap between theoretical knowledge and practical implementation for enthusiasts seeking enhanced hardware performance This technical guide systematically breaks down the complex world of GPU overclocking from fundamental architecture concepts to advanced performance tuning techniques while maintaining a strong focus on safety and stability The book progresses through three main sections beginning with GPU architecture fundamentals before diving into safe overclocking methodologies and advanced optimization techniques Readers learn essential concepts about memory modules core clocks and voltage regulations supported by empirical data and real world case studies What sets this guide apart is its thorough integration of semiconductor physics electrical engineering and thermal dynamics principles providing readers with a deep understanding of the scientific foundations behind successful overclocking practices Written for PC enthusiasts and hardware technicians the guide combines detailed technical explanations with accessible step by step instructions complemented by visual aids such as thermal imaging data and performance charts It maintains vendor neutrality while addressing crucial aspects like thermal management power delivery and stability testing The book s practical approach to hardware optimization coupled with its emphasis on safety parameters and troubleshooting protocols makes it an invaluable resource for anyone interested in pushing their GPU s performance beyond factory specifications *GPU PRO 360 Guide to GPGPU* Wolfgang Engel,2018-10-31 Wolfgang Engel s GPU Pro 360 Guide to GPGPU gathers all the cutting edge information from his previous seven GPU Pro volumes into a convenient single source anthology that covers general purpose GPU This volume is complete with 19 articles by leading programmers that focus on the techniques that go beyond the normal pixel and triangle scope of GPUs and take advantage of the parallelism of modern graphics processors to accomplish such tasks GPU 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