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NVIDIA Compute RTX 30

NVIDIA RTX 30 series benchmarks by Michael Larabel.

Test Systems:

RTX 3060

Processor: AMD Ryzen 9 5900X 12-Core @ 3.70GHz (12 Cores / 24 Threads), Motherboard: ASUS ROG CROSSHAIR VIII HERO (3501 BIOS), Chipset: AMD Starship/Matisse, Memory: 16GB, Disk: 1000GB Western Digital WD_BLACK SN850 1TB + 2000GB, Graphics: eVGA NVIDIA GeForce RTX 3060 12GB, Audio: NVIDIA Device 228e, Monitor: ASUS VP28U, Network: Realtek RTL8125 2.5GbE + Intel I211

OS: Ubuntu 20.04, Kernel: 5.11.0-25-generic (x86_64), Desktop: GNOME Shell 3.36.9, Display Server: X Server 1.20.11, Display Driver: NVIDIA 470.63.01, OpenGL: 4.6.0, OpenCL: OpenCL 3.0 CUDA 11.4.112, Vulkan: 1.2.175, Compiler: GCC 9.3.0, File-System: ext4, Screen Resolution: 3840x2160

Kernel Notes: Transparent Huge Pages: madvise
Compiler Notes: --build=x86_64-linux-gnu --disable-vtable-verify --disable-werror --enable-checking=release --enable-clocale=gnu --enable-default-pie --enable-gnu-unique-object --enable-languages=c,ada,c++,go,brig,d,fortran,objc,obj-c++,gm2 --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch

--enable-multilib --enable-nls --enable-objc-gc=auto --enable-offload-targets=nvptx-none=/build/gcc-9-HskZEa/gcc-9-9.3.0/debian/tmp-nvptx/usr,hsa --enable-plugin --enable-shared --enable-threads=posix --host=x86_64-linux-gnu --program-prefix=x86_64-linux-gnu- --target=x86_64-linux-gnu --with-abi=m64 --with-arch-32=i686 --with-default-libstdcxx-abi=new --with-gcc-major-version-only --with-multilib-list=m32,m64,mx32 --with-target-system-zlib=auto --with-tune=generic --without-cuda-driver -v
Processor Notes: Scaling Governor: acpi-cpufreq performance (Boost: Enabled) - CPU Microcode: 0xa201009
OpenCL Notes: GPU Compute Cores: 3584
Security Notes: itlb_multihit: Not affected + l1tf: Not affected + mds: Not affected + meltdown: Not affected + spec_store_bypass: Mitigation of SSB disabled via prctl and seccomp + spectre_v1: Mitigation of usercopy/swapgs barriers and __user pointer sanitization + spectre_v2: Mitigation of Full AMD retpoline IBPB: conditional IBRS_FW STIBP: always-on RSB filling + srbds: Not affected + tsx_async_abort: Not affected

RTX 3060 Ti

Processor: AMD Ryzen 9 5900X 12-Core @ 3.70GHz (12 Cores / 24 Threads), Motherboard: ASUS ROG CROSSHAIR VIII HERO (3501 BIOS), Chipset: AMD Starship/Matisse, Memory: 16GB, Disk: 1000GB Western Digital WD_BLACK SN850 1TB + 2000GB, Graphics: NVIDIA GeForce RTX 3060 Ti 8GB, Audio: NVIDIA Device 228b, Monitor: ASUS VP28U, Network: Realtek RTL8125 2.5GbE + Intel I211

OS: Ubuntu 20.04, Kernel: 5.11.0-25-generic (x86_64), Desktop: GNOME Shell 3.36.9, Display Server: X Server 1.20.11, Display Driver: NVIDIA 470.63.01, OpenGL: 4.6.0, OpenCL: OpenCL 3.0 CUDA 11.4.112, Vulkan: 1.2.175, Compiler: GCC 9.3.0, File-System: ext4, Screen Resolution: 3840x2160

Kernel Notes: Transparent Huge Pages: madvise
Compiler Notes: --build=x86_64-linux-gnu --disable-vtable-verify --disable-werror --enable-checking=release --enable-clocale=gnu --enable-default-pie --enable-gnu-unique-object --enable-languages=c,ada,c++,go,brig,d,fortran,objc,obj-c++,gm2 --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-multilib --enable-nls --enable-objc-gc=auto --enable-offload-targets=nvptx-none=/build/gcc-9-HskZEa/gcc-9-9.3.0/debian/tmp-nvptx/usr,hsa --enable-plugin --enable-shared --enable-threads=posix --host=x86_64-linux-gnu --program-prefix=x86_64-linux-gnu- --target=x86_64-linux-gnu --with-abi=m64 --with-arch-32=i686 --with-default-libstdcxx-abi=new --with-gcc-major-version-only --with-multilib-list=m32,m64,mx32 --with-target-system-zlib=auto --with-tune=generic --without-cuda-driver -v
Processor Notes: Scaling Governor: acpi-cpufreq performance (Boost: Enabled) - CPU Microcode: 0xa201009
OpenCL Notes: GPU Compute Cores: 4864
Security Notes: itlb_multihit: Not affected + l1tf: Not affected + mds: Not affected + meltdown: Not affected + spec_store_bypass: Mitigation of SSB disabled via prctl and seccomp + spectre_v1: Mitigation of usercopy/swapgs barriers and __user pointer sanitization + spectre_v2: Mitigation of Full AMD retpoline IBPB: conditional IBRS_FW STIBP: always-on RSB filling + srbds: Not affected + tsx_async_abort: Not affected

RTX 3070

Processor: AMD Ryzen 9 5900X 12-Core @ 3.70GHz (12 Cores / 24 Threads), Motherboard: ASUS ROG CROSSHAIR VIII HERO (3501 BIOS), Chipset: AMD Starship/Matisse, Memory: 16GB, Disk: 1000GB Western Digital WD_BLACK SN850 1TB + 2000GB, Graphics: NVIDIA GeForce RTX 3070 8GB, Audio: NVIDIA Device 228b, Monitor: ASUS VP28U, Network: Realtek RTL8125 2.5GbE + Intel I211

OS: Ubuntu 20.04, Kernel: 5.11.0-25-generic (x86_64), Desktop: GNOME Shell 3.36.9, Display Server: X Server 1.20.11, Display Driver: NVIDIA 470.63.01, OpenGL: 4.6.0, OpenCL: OpenCL 3.0 CUDA 11.4.112, Vulkan: 1.2.175, Compiler: GCC 9.3.0, File-System: ext4, Screen Resolution: 3840x2160

Kernel Notes: Transparent Huge Pages: madvise
Compiler Notes: --build=x86_64-linux-gnu --disable-vtable-verify --disable-werror --enable-checking=release --enable-clocale=gnu --enable-default-pie --enable-gnu-unique-object --enable-languages=c,ada,c++,go,brig,d,fortran,objc,obj-c++,gm2 --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-multilib --enable-nls --enable-objc-gc=auto --enable-offload-targets=nvptx-none=/build/gcc-9-HskZEa/gcc-9-9.3.0/debian/tmp-nvptx/usr,hsa --enable-plugin --enable-shared --enable-threads=posix --host=x86_64-linux-gnu --program-prefix=x86_64-linux-gnu- --target=x86_64-linux-gnu --with-abi=m64 --with-arch-32=i686 --with-default-libstdcxx-abi=new --with-gcc-major-version-only --with-multilib-list=m32,m64,mx32 --with-target-system-zlib=auto --with-tune=generic --without-cuda-driver -v
Processor Notes: Scaling Governor: acpi-cpufreq performance (Boost: Enabled) - CPU Microcode: 0xa201009
OpenCL Notes: GPU Compute Cores: 5888
Security Notes: itlb_multihit: Not affected + l1tf: Not affected + mds: Not affected + meltdown: Not affected + spec_store_bypass: Mitigation of SSB disabled via prctl and seccomp + spectre_v1: Mitigation of usercopy/swapgs barriers and __user pointer sanitization + spectre_v2: Mitigation of Full AMD retpoline IBPB: conditional IBRS_FW STIBP: always-on RSB filling + srbds: Not affected + tsx_async_abort: Not affected

RTX 3070 Ti

Processor: AMD Ryzen 9 5900X 12-Core @ 3.70GHz (12 Cores / 24 Threads), Motherboard: ASUS ROG CROSSHAIR VIII HERO (3501 BIOS), Chipset: AMD Starship/Matisse, Memory: 16GB, Disk: 1000GB Western Digital WD_BLACK SN850 1TB + 2000GB, Graphics: NVIDIA GeForce RTX 3070 Ti 8GB, Audio: NVIDIA Device 228b, Monitor: ASUS VP28U, Network: Realtek RTL8125 2.5GbE + Intel I211

OS: Ubuntu 20.04, Kernel: 5.11.0-25-generic (x86_64), Desktop: GNOME Shell 3.36.9, Display Server: X Server 1.20.11, Display Driver: NVIDIA 470.63.01, OpenGL: 4.6.0, OpenCL: OpenCL 3.0 CUDA 11.4.112, Vulkan: 1.2.175, Compiler: GCC 9.3.0, File-System: ext4, Screen Resolution: 3840x2160

Kernel Notes: Transparent Huge Pages: madvise
Compiler Notes: --build=x86_64-linux-gnu --disable-vtable-verify --disable-werror --enable-checking=release --enable-clocale=gnu --enable-default-pie --enable-gnu-unique-object --enable-languages=c,ada,c++,go,brig,d,fortran,objc,obj-c++,gm2 --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-multilib --enable-nls --enable-objc-gc=auto --enable-offload-targets=nvptx-none=/build/gcc-9-HskZEa/gcc-9-9.3.0/debian/tmp-nvptx/usr,hsa --enable-plugin --enable-shared --enable-threads=posix --host=x86_64-linux-gnu --program-prefix=x86_64-linux-gnu- --target=x86_64-linux-gnu --with-abi=m64 --with-arch-32=i686 --with-default-libstdcxx-abi=new --with-gcc-major-version-only --with-multilib-list=m32,m64,mx32 --with-target-system-zlib=auto --with-tune=generic --without-cuda-driver -v
Processor Notes: Scaling Governor: acpi-cpufreq performance (Boost: Enabled) - CPU Microcode: 0xa201009
OpenCL Notes: GPU Compute Cores: 6144
Security Notes: itlb_multihit: Not affected + l1tf: Not affected + mds: Not affected + meltdown: Not affected + spec_store_bypass: Mitigation of SSB disabled via prctl and seccomp + spectre_v1: Mitigation of usercopy/swapgs barriers and __user pointer sanitization + spectre_v2: Mitigation of Full AMD retpoline IBPB: conditional IBRS_FW STIBP: always-on RSB filling + srbds: Not affected + tsx_async_abort: Not affected

RTX 3080

Processor: AMD Ryzen 9 5900X 12-Core @ 3.70GHz (12 Cores / 24 Threads), Motherboard: ASUS ROG CROSSHAIR VIII HERO (3501 BIOS), Chipset: AMD Starship/Matisse, Memory: 16GB, Disk: 1000GB Western Digital WD_BLACK SN850 1TB + 2000GB, Graphics: NVIDIA GeForce RTX 3080 10GB, Audio: NVIDIA Device 1aef, Monitor: ASUS VP28U, Network: Realtek RTL8125 2.5GbE + Intel I211

OS: Ubuntu 20.04, Kernel: 5.11.0-25-generic (x86_64), Desktop: GNOME Shell 3.36.9, Display Server: X Server 1.20.11, Display Driver: NVIDIA 470.63.01, OpenGL: 4.6.0, OpenCL: OpenCL 3.0 CUDA 11.4.112, Vulkan: 1.2.175, Compiler: GCC 9.3.0, File-System: ext4, Screen Resolution: 3840x2160

Kernel Notes: Transparent Huge Pages: madvise
Compiler Notes: --build=x86_64-linux-gnu --disable-vtable-verify --disable-werror --enable-checking=release --enable-clocale=gnu --enable-default-pie --enable-gnu-unique-object --enable-languages=c,ada,c++,go,brig,d,fortran,objc,obj-c++,gm2 --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-multilib --enable-nls --enable-objc-gc=auto --enable-offload-targets=nvptx-none=/build/gcc-9-HskZEa/gcc-9-9.3.0/debian/tmp-nvptx/usr,hsa --enable-plugin --enable-shared --enable-threads=posix --host=x86_64-linux-gnu --program-prefix=x86_64-linux-gnu- --target=x86_64-linux-gnu --with-abi=m64 --with-arch-32=i686 --with-default-libstdcxx-abi=new --with-gcc-major-version-only --with-multilib-list=m32,m64,mx32 --with-target-system-zlib=auto --with-tune=generic --without-cuda-driver -v
Processor Notes: Scaling Governor: acpi-cpufreq performance (Boost: Enabled) - CPU Microcode: 0xa201009
OpenCL Notes: GPU Compute Cores: 8704
Security Notes: itlb_multihit: Not affected + l1tf: Not affected + mds: Not affected + meltdown: Not affected + spec_store_bypass: Mitigation of SSB disabled via prctl and seccomp + spectre_v1: Mitigation of usercopy/swapgs barriers and __user pointer sanitization + spectre_v2: Mitigation of Full AMD retpoline IBPB: conditional IBRS_FW STIBP: always-on RSB filling + srbds: Not affected + tsx_async_abort: Not affected

RTX 3080 Ti

Processor: AMD Ryzen 9 5900X 12-Core @ 3.70GHz (12 Cores / 24 Threads), Motherboard: ASUS ROG CROSSHAIR VIII HERO (3501 BIOS), Chipset: AMD Starship/Matisse, Memory: 16GB, Disk: 1000GB Western Digital WD_BLACK SN850 1TB + 2000GB, Graphics: NVIDIA GeForce RTX 3080 Ti 12GB, Audio: NVIDIA Device 1aef, Monitor: ASUS VP28U, Network: Realtek RTL8125 2.5GbE + Intel I211

OS: Ubuntu 20.04, Kernel: 5.11.0-25-generic (x86_64), Desktop: GNOME Shell 3.36.9, Display Server: X Server 1.20.11, Display Driver: NVIDIA 470.63.01, OpenGL: 4.6.0, OpenCL: OpenCL 3.0 CUDA 11.4.112, Vulkan: 1.2.175, Compiler: GCC 9.3.0, File-System: ext4, Screen Resolution: 3840x2160

Kernel Notes: Transparent Huge Pages: madvise
Compiler Notes: --build=x86_64-linux-gnu --disable-vtable-verify --disable-werror --enable-checking=release --enable-clocale=gnu --enable-default-pie --enable-gnu-unique-object --enable-languages=c,ada,c++,go,brig,d,fortran,objc,obj-c++,gm2 --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-multilib --enable-nls --enable-objc-gc=auto --enable-offload-targets=nvptx-none=/build/gcc-9-HskZEa/gcc-9-9.3.0/debian/tmp-nvptx/usr,hsa --enable-plugin --enable-shared --enable-threads=posix --host=x86_64-linux-gnu --program-prefix=x86_64-linux-gnu- --target=x86_64-linux-gnu --with-abi=m64 --with-arch-32=i686 --with-default-libstdcxx-abi=new --with-gcc-major-version-only --with-multilib-list=m32,m64,mx32 --with-target-system-zlib=auto --with-tune=generic --without-cuda-driver -v
Processor Notes: Scaling Governor: acpi-cpufreq performance (Boost: Enabled) - CPU Microcode: 0xa201009
OpenCL Notes: GPU Compute Cores: 10240
Security Notes: itlb_multihit: Not affected + l1tf: Not affected + mds: Not affected + meltdown: Not affected + spec_store_bypass: Mitigation of SSB disabled via prctl and seccomp + spectre_v1: Mitigation of usercopy/swapgs barriers and __user pointer sanitization + spectre_v2: Mitigation of Full AMD retpoline IBPB: conditional IBRS_FW STIBP: always-on RSB filling + srbds: Not affected + tsx_async_abort: Not affected

RTX 3090

NVIDIA Compute RTX 30

Processor: AMD Ryzen 9 5900X 12-Core @ 3.70GHz (12 Cores / 24 Threads), Motherboard: ASUS ROG CROSSHAIR VIII HERO (3501 BIOS), Chipset: AMD Starship/Matisse, Memory: 16GB, Disk: 1000GB Western Digital WD_BLACK SN850 1TB + 2000GB, Graphics: NVIDIA GeForce RTX 3090 24GB, Audio: NVIDIA Device 1aef, Monitor: ASUS VP28U, Network: Realtek RTL8125 2.5GbE + Intel I211

OS: Ubuntu 20.04, Kernel: 5.11.0-25-generic (x86_64), Desktop: GNOME Shell 3.36.9, Display Server: X Server 1.20.11, Display Driver: NVIDIA 470.63.01, OpenGL: 4.6.0, OpenCL: OpenCL 3.0 CUDA 11.4.112, Vulkan: 1.2.175, Compiler: GCC 9.3.0, File-System: ext4, Screen Resolution: 3840x2160

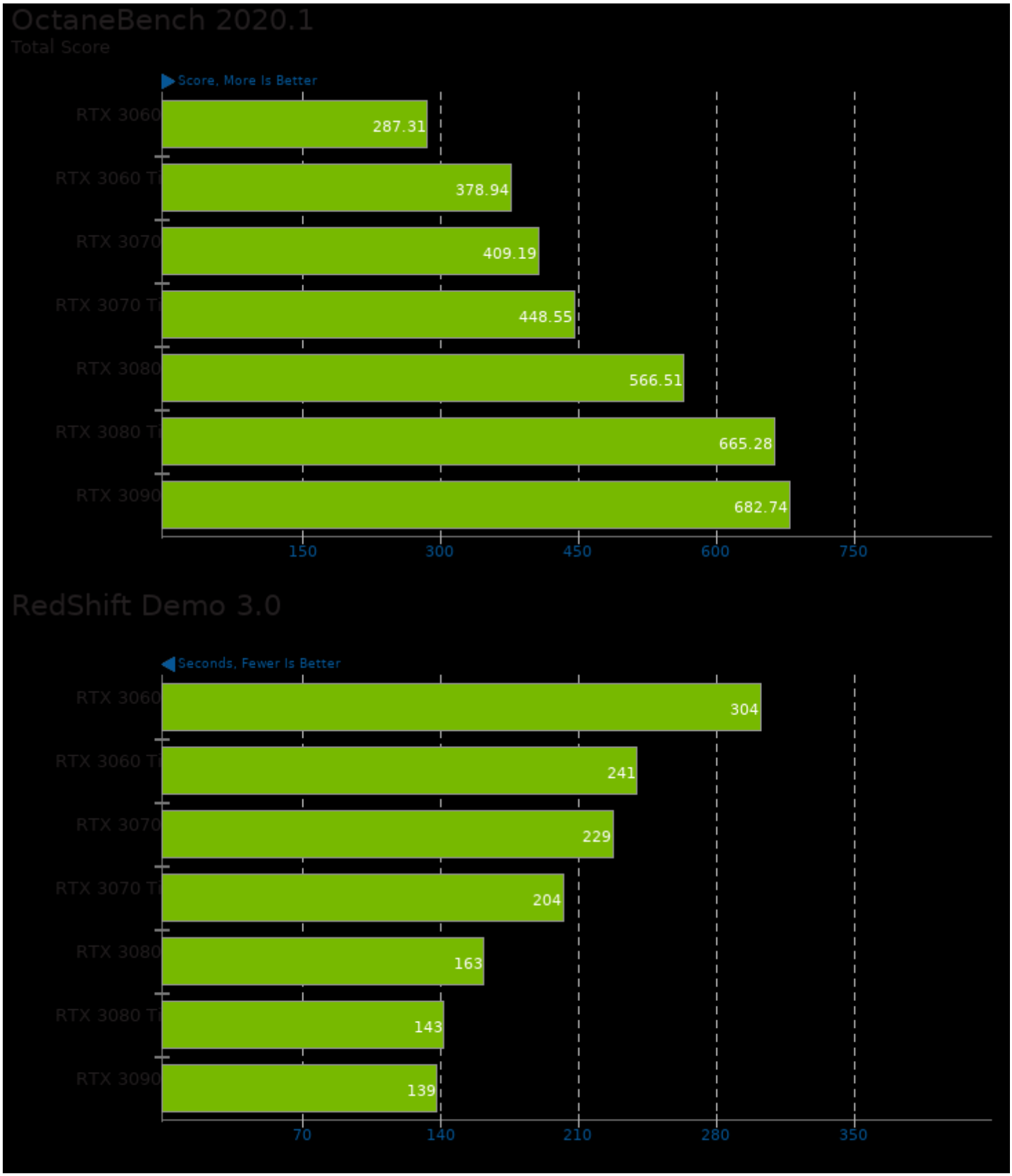
Kernel Notes: Transparent Huge Pages: madvise
Compiler Notes: --build=x86_64-linux-gnu --disable-vtable-verify --disable-werror --enable-checking=release --enable-clocale=gnu --enable-default-pie --enable-gnu-unique-object --enable-languages=c,ada,c++,go,brig,d,fortran,objc,obj-c++,gm2 --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-multilib --enable-nls --enable-objc-gc=auto --enable-offload-targets=nvptx-none=/build/gcc-9-HskZEa/gcc-9-9.3.0/debian/tmp-nvptx/usr,hsa --enable-plugin --enable-shared --enable-threads=posix --host=x86_64-linux-gnu --program-prefix=x86_64-linux-gnu- --target=x86_64-linux-gnu --with-abi=m64 --with-arch-32=i686 --with-default-libstdcxx-abi=new --with-gcc-major-version-only --with-multilib-list=m32,m64,mx32 --with-target-system-zlib=auto --with-tune=generic --without-cuda-driver -v
Processor Notes: Scaling Governor: acpi-cpufreq performance (Boost: Enabled) - CPU Microcode: 0xa201009
OpenCL Notes: GPU Compute Cores: 10496
Security Notes: itlb_multihit: Not affected + l1tf: Not affected + mds: Not affected + meltdown: Not affected + spec_store_bypass: Mitigation of SSB disabled via prctl and seccomp + spectre_v1: Mitigation of usercopy/swapgs barriers and __user pointer sanitization + spectre_v2: Mitigation of Full AMD retpoline IBPB: conditional IBRS_FW STIBP: always-on RSB filling + srbds: Not affected + tsx_async_abort: Not affected

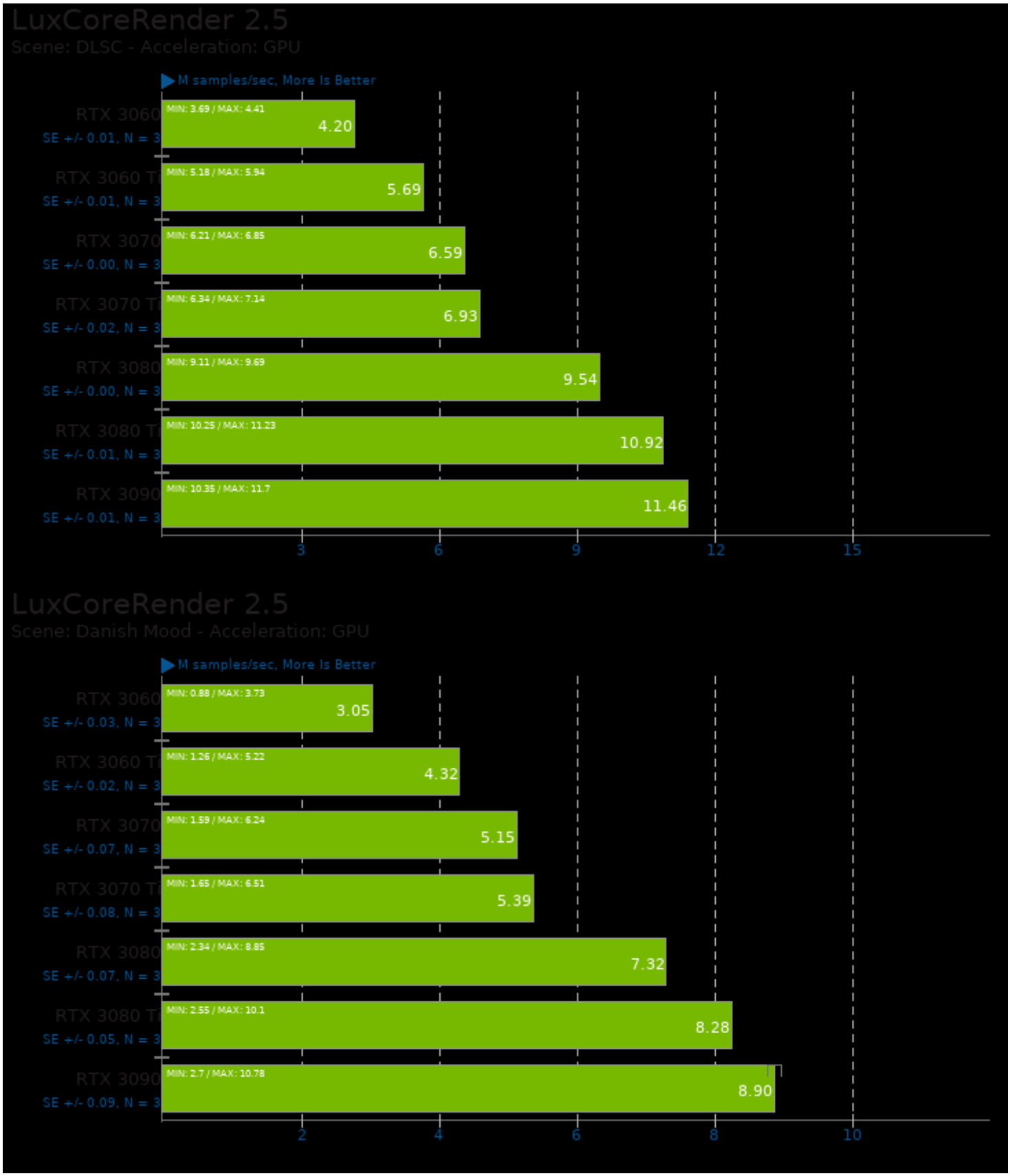
	RTX 3060	RTX 3060 Ti	RTX 3070	RTX 3070 Ti	RTX 3080	RTX 3080 Ti	RTX 3090
OctaneBench - Total Score (Score)	**287.30692**	378.940906	409.18581	448.548304	566.506957	665.280044	**682.738115**
Normalized	42.08%	55.5%	59.93%	65.7%	82.98%	97.44%	100%
RedShift Demo (sec)	**304**	241	229	204	163	143	**139**
Normalized	45.72%	57.68%	60.7%	68.14%	85.28%	97.2%	100%
LuxCoreRender - DLSC - GPU (M samples/sec)	**4.20**	5.69	6.59	6.93	9.54	10.92	**11.46**
Normalized	36.65%	49.65%	57.5%	60.47%	83.25%	95.29%	100%
Standard Deviation	0.3%	0.4%	0.1%	0.6%	0.1%	0.1%	0.1%
LuxCoreRender - Danish Mood - GPU (M samples/sec)	**3.05**	4.32	5.15	5.39	7.32	8.28	**8.90**
Normalized	34.27%	48.54%	57.87%	60.56%	82.25%	93.03%	100%
Standard Deviation	1.6%	0.9%	2.4%	2.5%	1.6%	1.1%	1.8%
LuxCoreRender - Orange Juice - GPU (M samples/sec)	**4.64**	6.11	6.95	7.04	9.09	10.03	**10.47**
Normalized	44.32%	58.36%	66.38%	67.24%	86.82%	95.8%	100%
Standard Deviation	0.4%	1%	0.4%	0.4%	0.3%	0.7%	0.9%
LuxCoreRender - LuxCore Benchmark - GPU (M samples/sec)	**3.86**	5.32	6.12	6.50	9.15	10.40	**10.94**
Normalized	35.28%	48.63%	55.94%	59.41%	83.64%	95.06%	100%
Standard Deviation	0.3%	0.1%	0.6%	0.6%	0.1%	0.2%	0.1%
LuxCoreRender - R.C.a.P - GPU (M samples/sec)	**13.08**	18.72	21.04	22.27	27.36	32.14	**32.34**
Normalized	40.45%	57.88%	65.06%	68.86%	84.6%	99.38%	100%
Standard Deviation	0.3%	0.4%	1%	2%	0.1%	2.4%	0.9%

NVIDIA Compute RTX 30

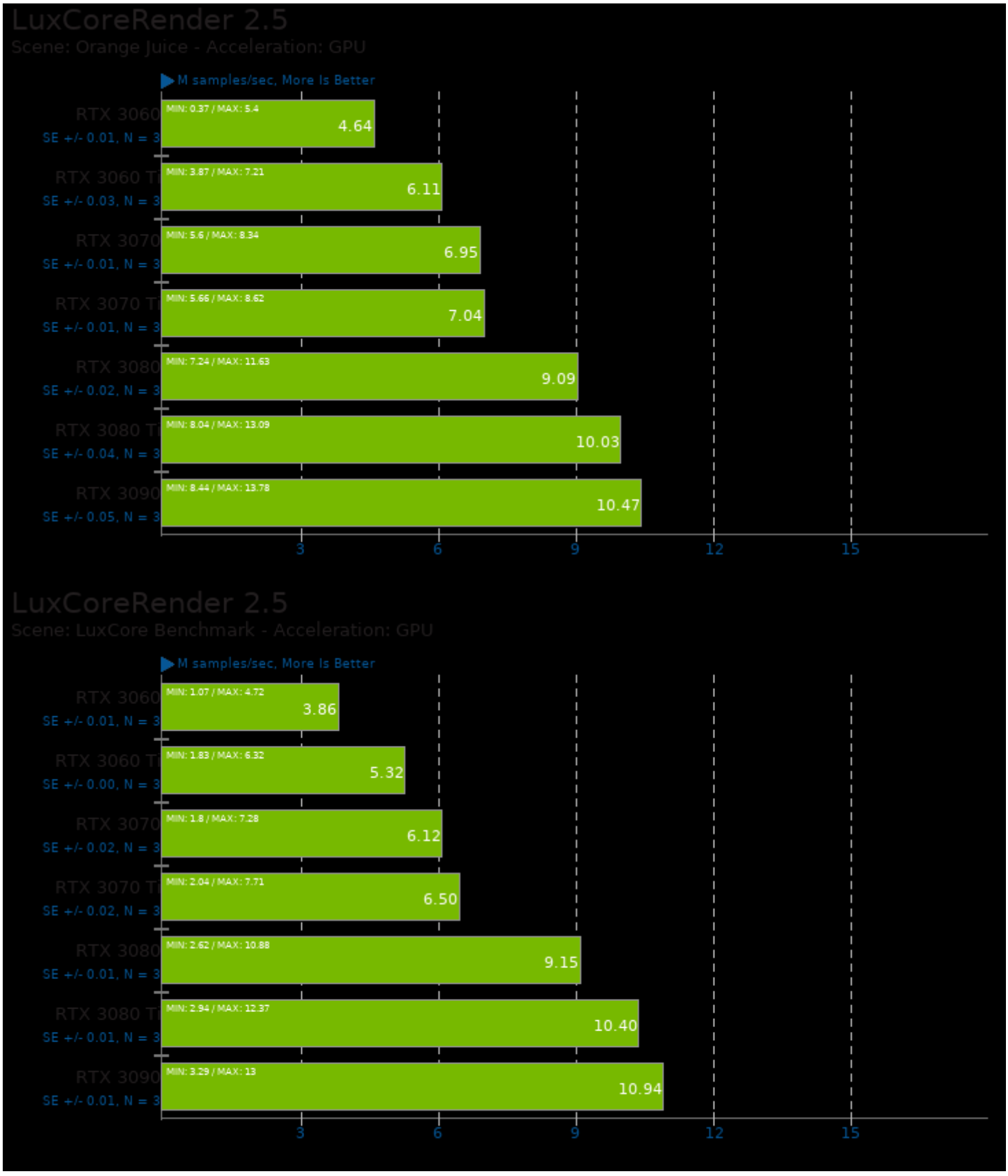
IndigoBench - OpenCL GPU - Bedroom (M samples/s)	**8.408**	11.346	12.753	13.560	17.564	20.015	**20.829**
Normalized	40.37%	54.47%	61.23%	65.1%	84.32%	96.09%	100%
Standard Deviation	0.2%	0.3%	0.5%	0.4%	0%	0.2%	0.2%
IndigoBench - OpenCL GPU - Supercar (M samples/s)	**25.320**	33.380	37.168	38.058	46.380	51.488	**53.246**
Normalized	47.55%	62.69%	69.8%	71.48%	87.11%	96.7%	100%
Standard Deviation	0.4%	0.8%	0.5%	0.2%	0.1%	0.2%	0%
Blender - BMW27 - NVIDIA OptiX (sec)	**26.51**	17.59	15.91	14.62	11.22	9.77	**9.44**
Normalized	35.61%	53.67%	59.33%	64.57%	84.14%	96.62%	100%
Standard Deviation	39.4%	0.2%	0.3%	0.2%	0.1%	0.1%	0.1%
Blender - Classroom - NVIDIA OptiX (sec)	**74.49**	52.77	46.43	43.34	33.80	29.62	**28.66**
Normalized	38.47%	54.31%	61.73%	66.13%	84.79%	96.76%	100%
Standard Deviation	0.1%	0.3%	0.2%	0.2%	0.2%	0.1%	1%
Blender - Fishy Cat - NVIDIA OptiX (sec)	**57.17**	39.48	33.74	31.80	22.63	19.93	**18.96**
Normalized	33.16%	48.02%	56.19%	59.62%	83.78%	95.13%	100%
Standard Deviation	17.6%	0%	0.2%	0.1%	0%	0.1%	0%
Blender - Barbershop - NVIDIA OptiX (sec)	**822.42**	525.08	442.41		372.96		**315.90**
Normalized	38.41%	60.16%	71.4%		84.7%		100%
Standard Deviation	0.1%	0.1%	0.2%		0.1%		0.5%
Blender - Pabellon Barcelona - NVIDIA OptiX (sec)	**115.28**	82.54	73.69		52.23		**43.52**
Normalized	37.75%	52.73%	59.06%		83.32%		100%
Standard Deviation	0.1%	0.1%	0%		0.1%		0.1%
Chaos Group V-RAY - NVIDIA RTX GPU (vrays)	**1184**	1695	1857		2464		**2939**
Normalized	40.29%	57.67%	63.18%		83.84%		100%
Standard Deviation	0.1%	0.1%	0.1%		0.2%		0.2%
Chaos Group V-RAY - NVIDIA CUDA GPU (vpaths)	**842**	1243	1400		1786		**2111**
Normalized	39.89%	58.88%	66.32%		84.6%		100%
Standard Deviation		0.1%	0%		0.1%		0.1%

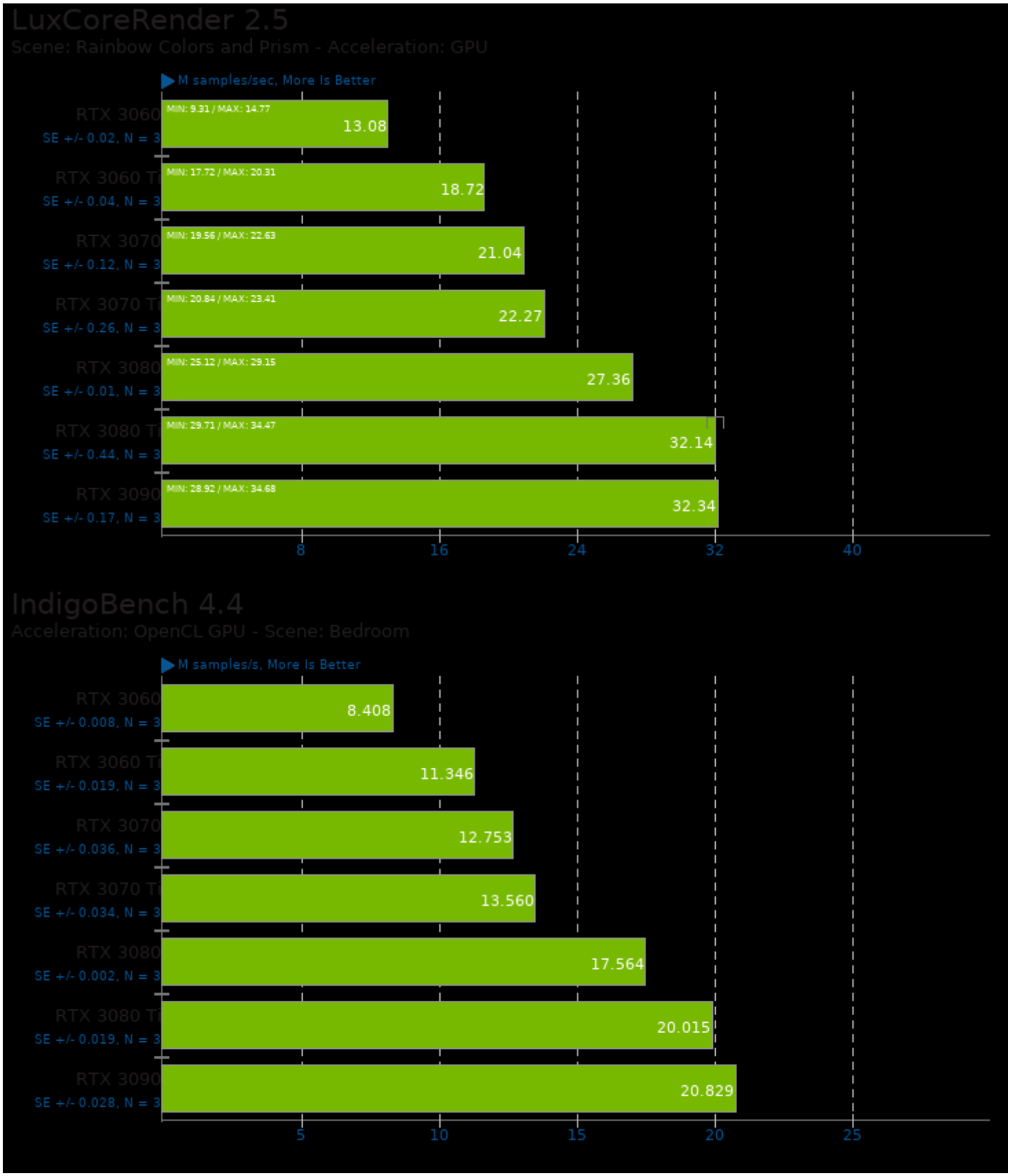
NVIDIA Compute RTX 30



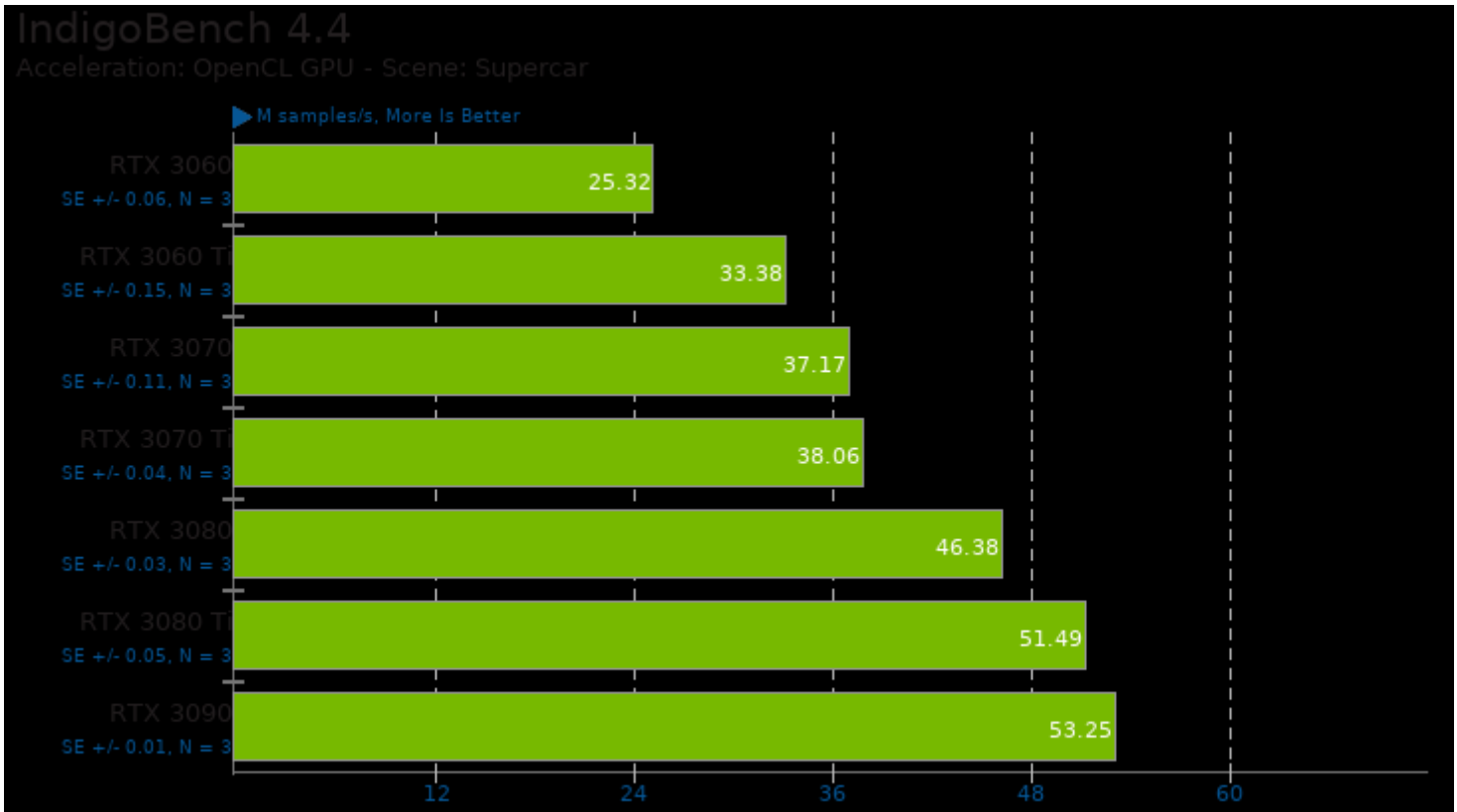

LuxCoreRender 2.5
Scene: DLSC - Acceleration: GPU
M samples/sec, More Is Better
RTX 3060
SE +/- 0.01, N = 3
MIN: 3.69 / MAX: 4.41
4.20
RTX 3060 Ti
SE +/- 0.01, N = 3
MIN: 5.18 / MAX: 5.94
5.69
RTX 3070
SE +/- 0.00, N = 3
MIN: 6.21 / MAX: 6.85
6.59
RTX 3070 Ti
SE +/- 0.02, N = 3
MIN: 6.34 / MAX: 7.14
6.93
RTX 3080
SE +/- 0.00, N = 3
MIN: 9.11 / MAX: 9.69
9.54
RTX 3080 Ti
SE +/- 0.01, N = 3
MIN: 10.25 / MAX: 11.23
10.92
RTX 3090
SE +/- 0.01, N = 3
MIN: 10.35 / MAX: 11.7
11.46
3
6
9
12
15
LuxCoreRender 2.5
Scene: Danish Mood - Acceleration: GPU
M samples/sec, More Is Better
RTX 3060
SE +/- 0.03, N = 3
MIN: 0.88 / MAX: 3.73
3.05
RTX 3060 Ti
SE +/- 0.02, N = 3
MIN: 1.26 / MAX: 5.22
4.32
RTX 3070
SE +/- 0.07, N = 3
MIN: 1.59 / MAX: 6.24
5.15
RTX 3070 Ti
SE +/- 0.08, N = 3
MIN: 1.65 / MAX: 6.51
5.39
RTX 3080
SE +/- 0.07, N = 3
MIN: 2.34 / MAX: 8.85
7.32
RTX 3080 Ti
SE +/- 0.05, N = 3
MIN: 2.55 / MAX: 10.1
8.28
RTX 3090
SE +/- 0.09, N = 3
MIN: 2.7 / MAX: 10.78
8.90
2
4
6
8
10

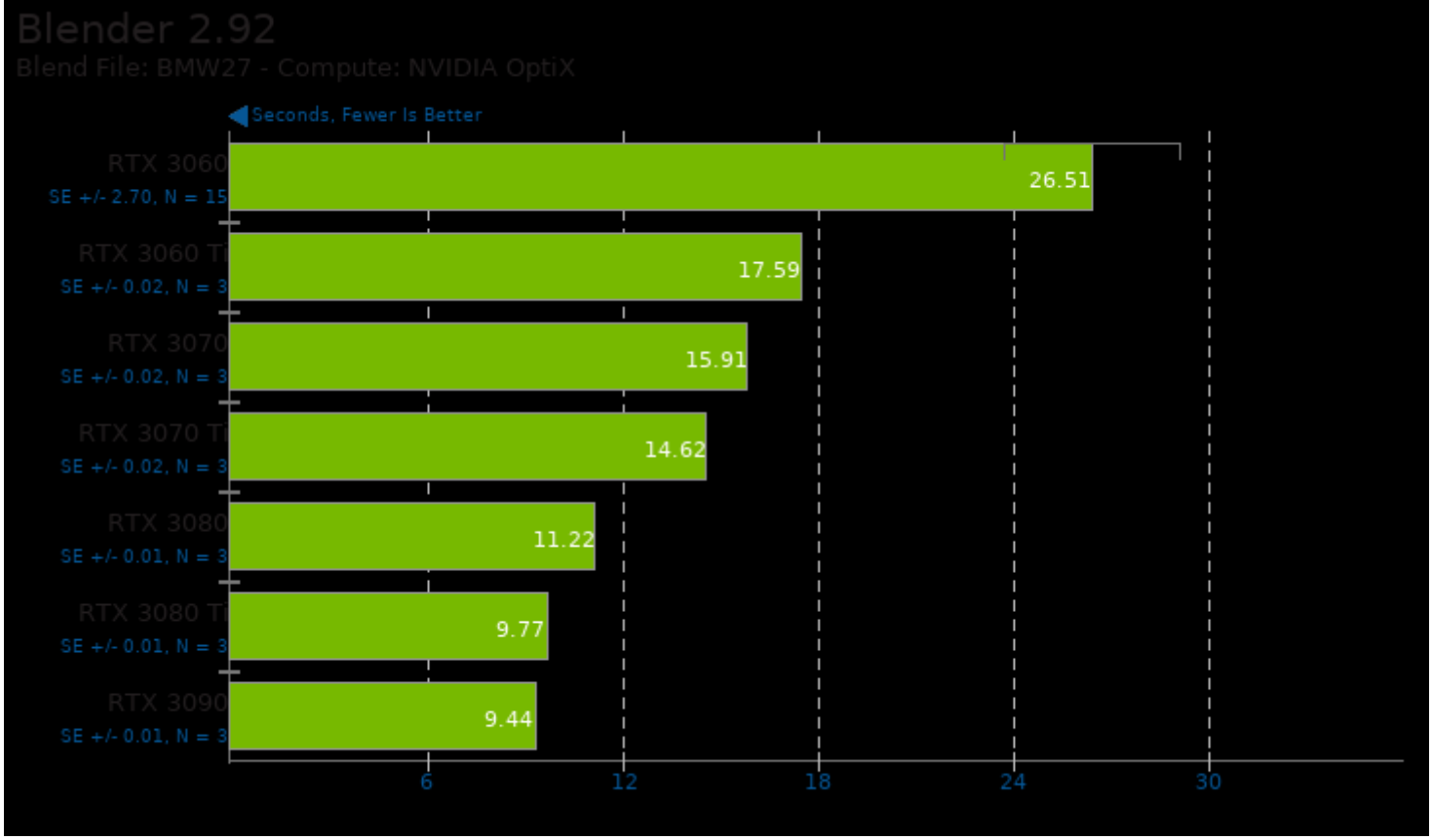
NVIDIA Compute RTX 30



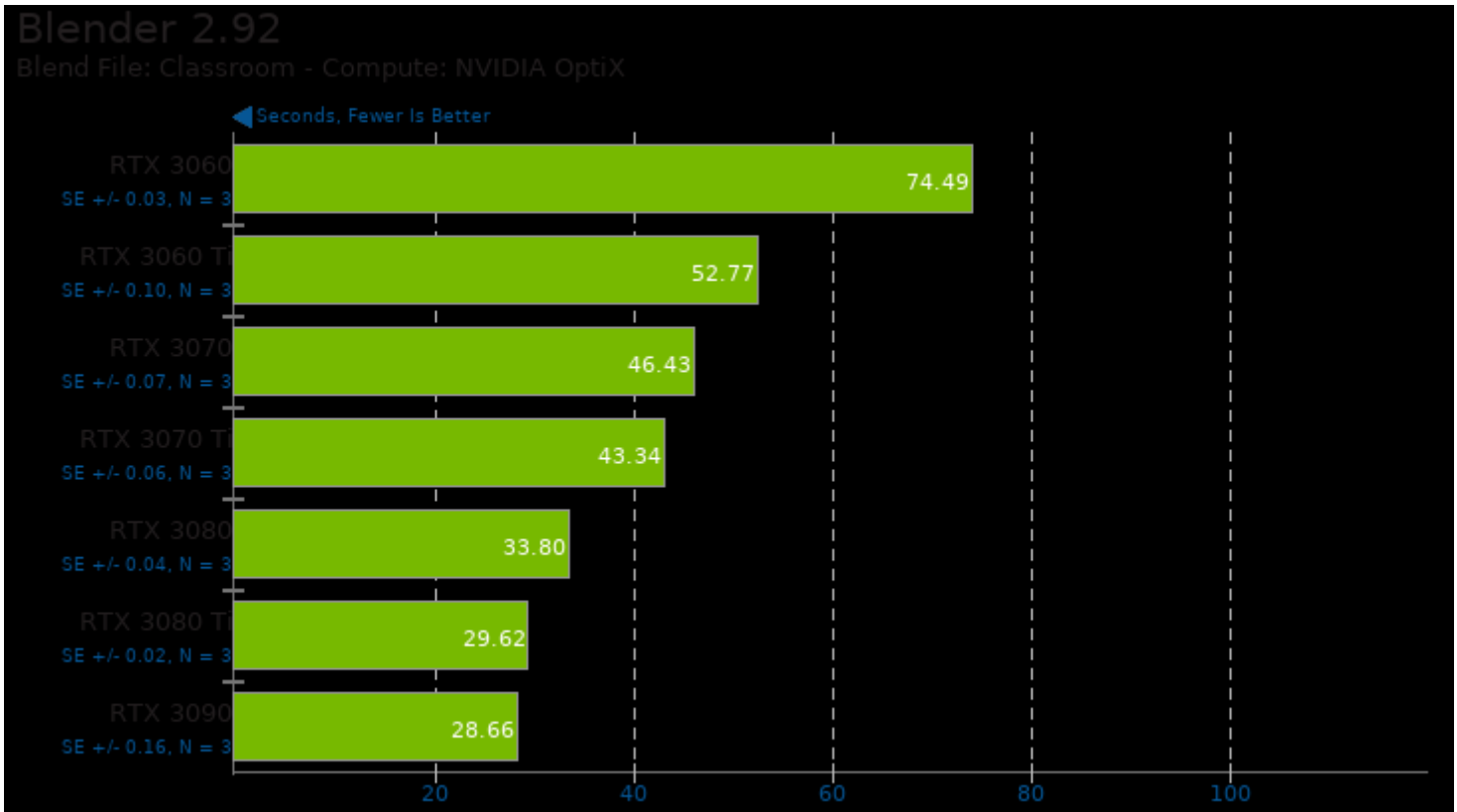

LuxCoreRender 2.5
Scene: Rainbow Colors and Prism - Acceleration: GPU
M samples/sec, More Is Better
RTX 3060
SE +/- 0.02, N = 3
MIN: 9.31 / MAX: 14.77
13.08
RTX 3060 Ti
SE +/- 0.04, N = 3
MIN: 17.72 / MAX: 20.31
18.72
RTX 3070
SE +/- 0.12, N = 3
MIN: 19.56 / MAX: 22.63
21.04
RTX 3070 Ti
SE +/- 0.26, N = 3
MIN: 20.84 / MAX: 23.41
22.27
RTX 3080
SE +/- 0.01, N = 3
MIN: 25.12 / MAX: 29.15
27.36
RTX 3080 Ti
SE +/- 0.44, N = 3
MIN: 29.71 / MAX: 34.47
32.14
RTX 3090
SE +/- 0.17, N = 3
MIN: 28.92 / MAX: 34.68
32.34
8
16
24
32
40
IndigoBench 4.4
Acceleration: OpenCL GPU - Scene: Bedroom
M samples/s, More Is Better
RTX 3060
SE +/- 0.008, N = 3
8.408
RTX 3060 Ti
SE +/- 0.019, N = 3
11.346
RTX 3070
SE +/- 0.036, N = 3
12.753
RTX 3070 Ti
SE +/- 0.034, N = 3
13.560
RTX 3080
SE +/- 0.002, N = 3
17.564
RTX 3080 Ti
SE +/- 0.019, N = 3
20.015
RTX 3090
SE +/- 0.028, N = 3
20.829
5
10
15
20
25

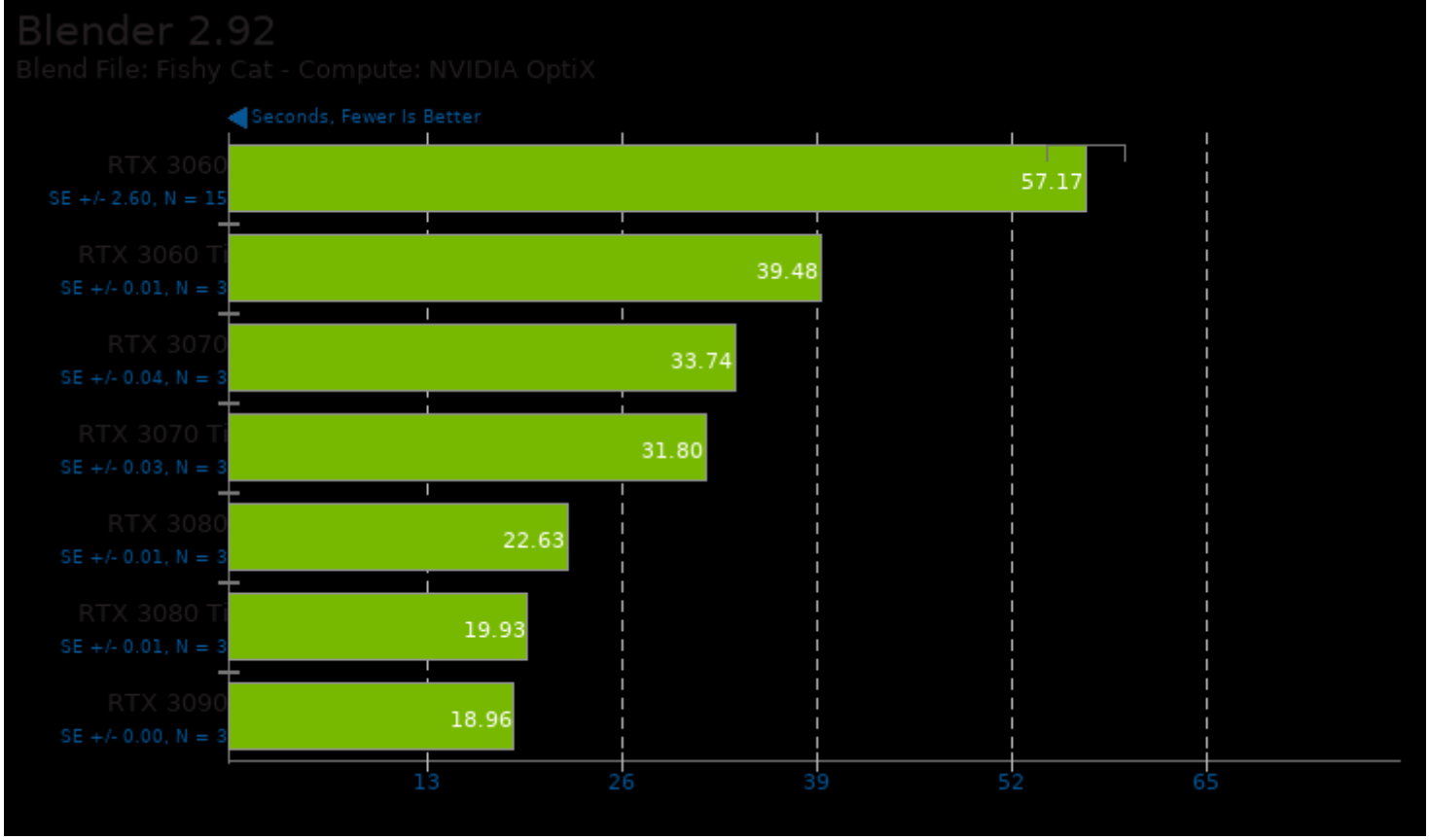
NVIDIA Compute RTX 30



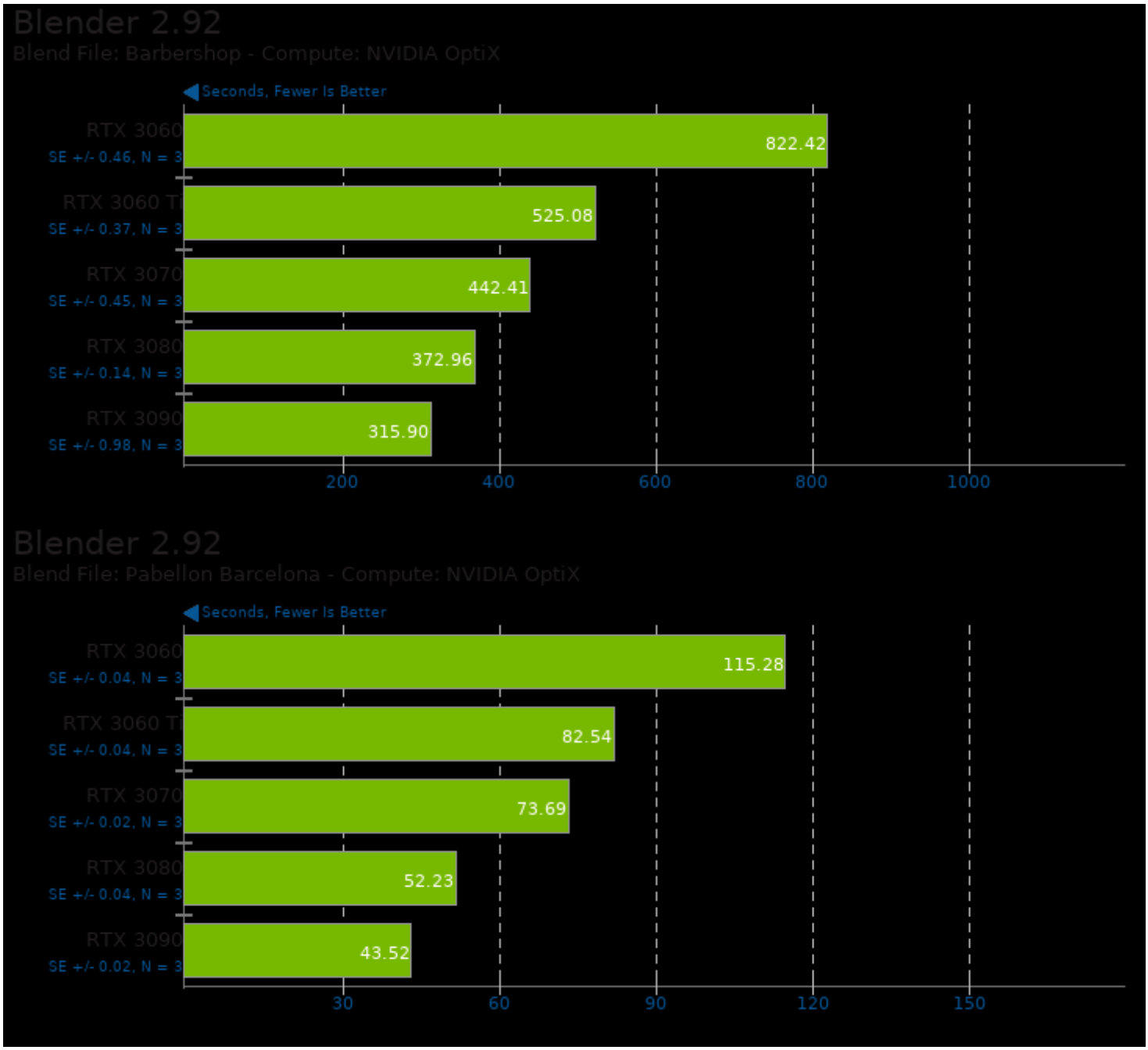


NVIDIA Compute RTX 30

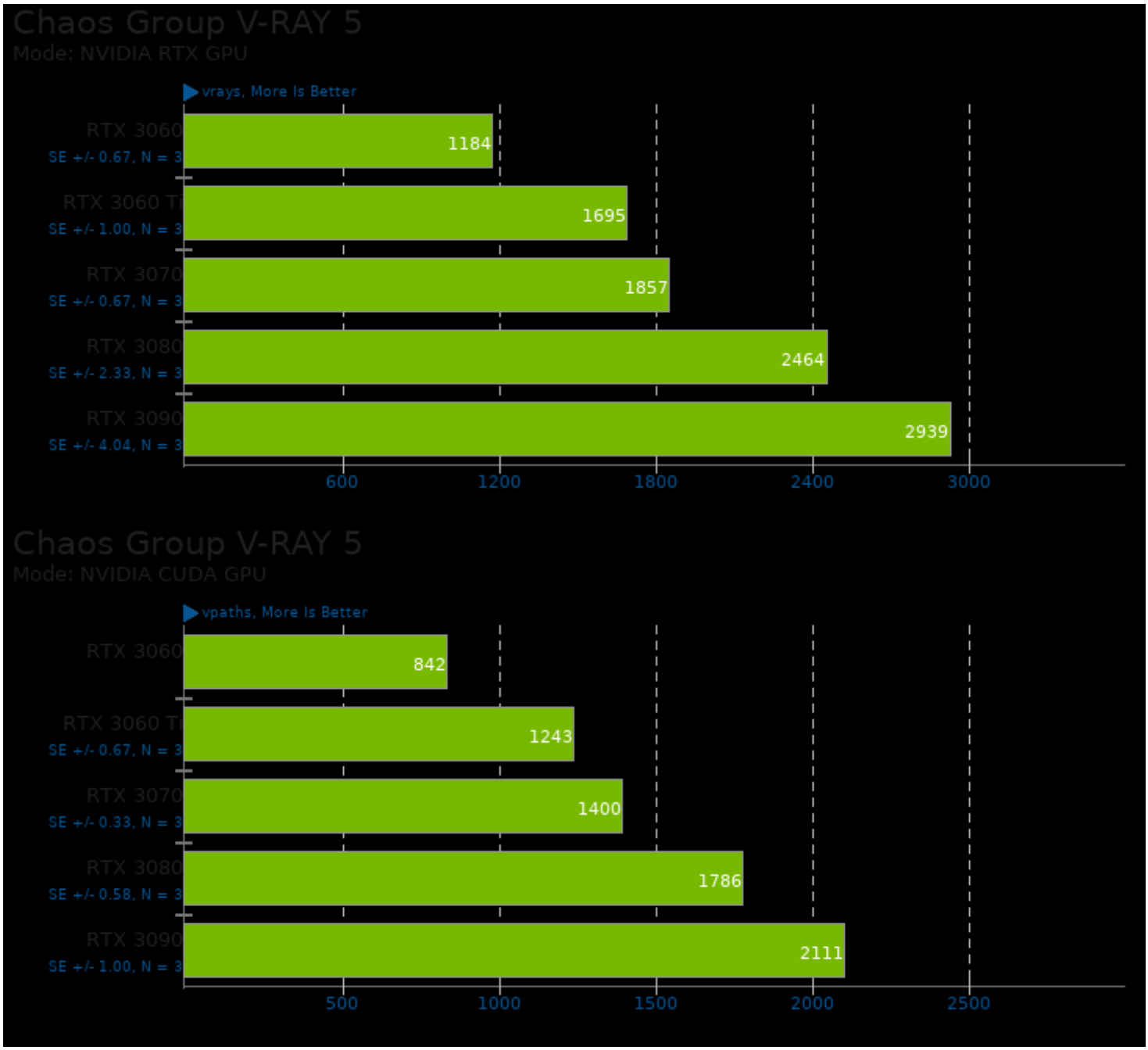




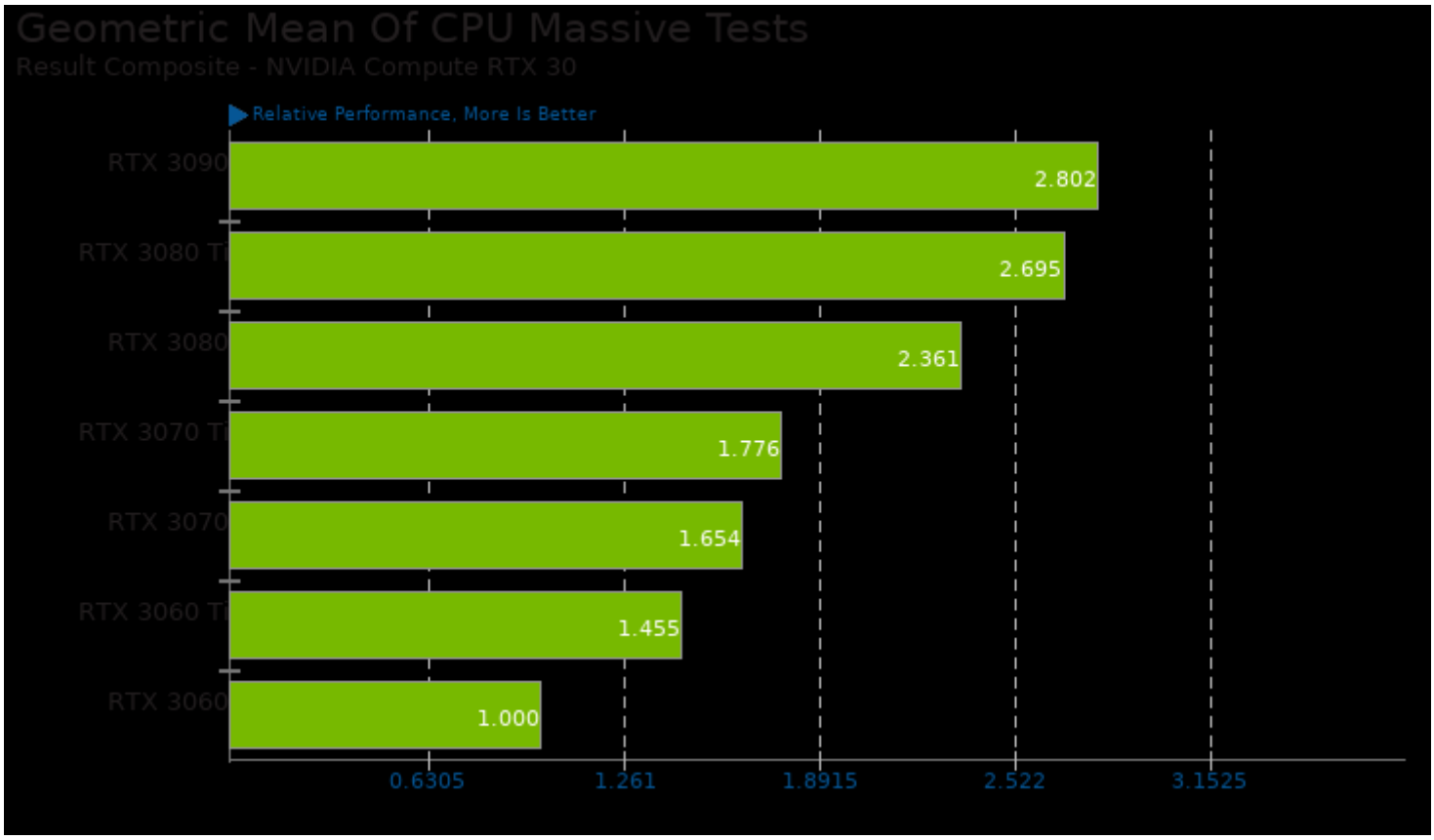
NVIDIA Compute RTX 30



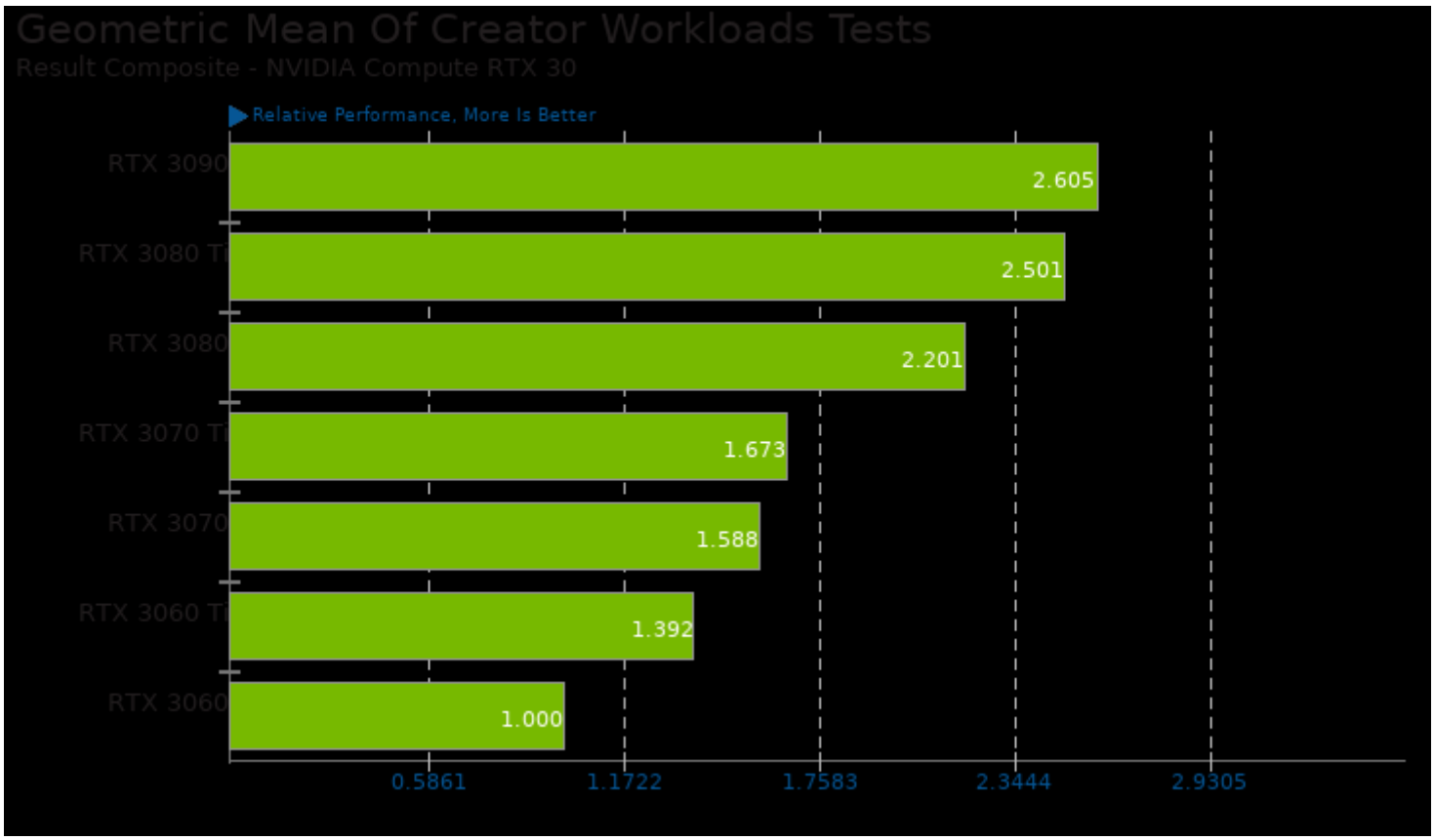
NVIDIA Compute RTX 30



These geometric means are based upon test groupings / test suites for this result file.

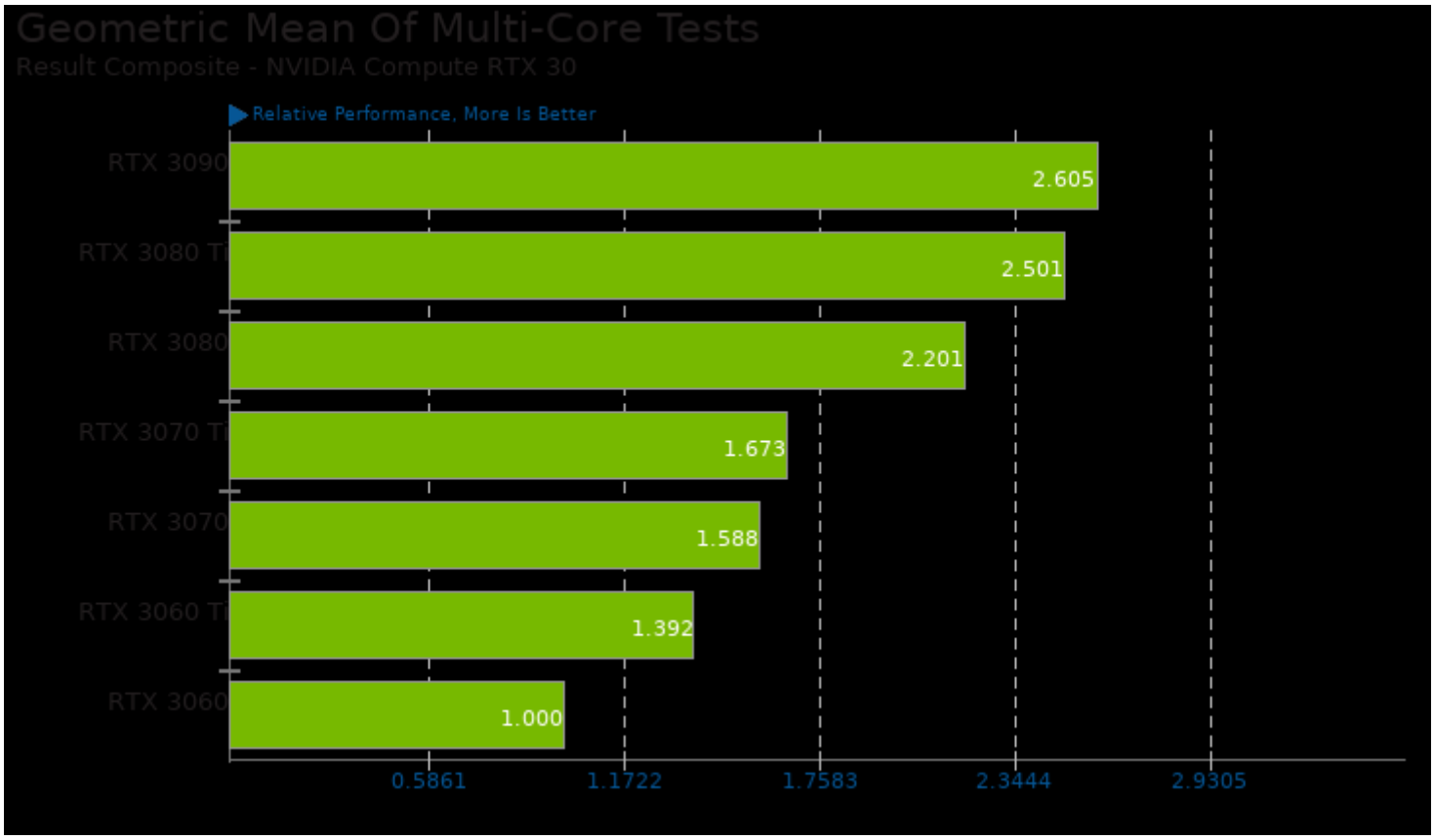


Geometric mean based upon tests: pts/v-ray and pts/blender

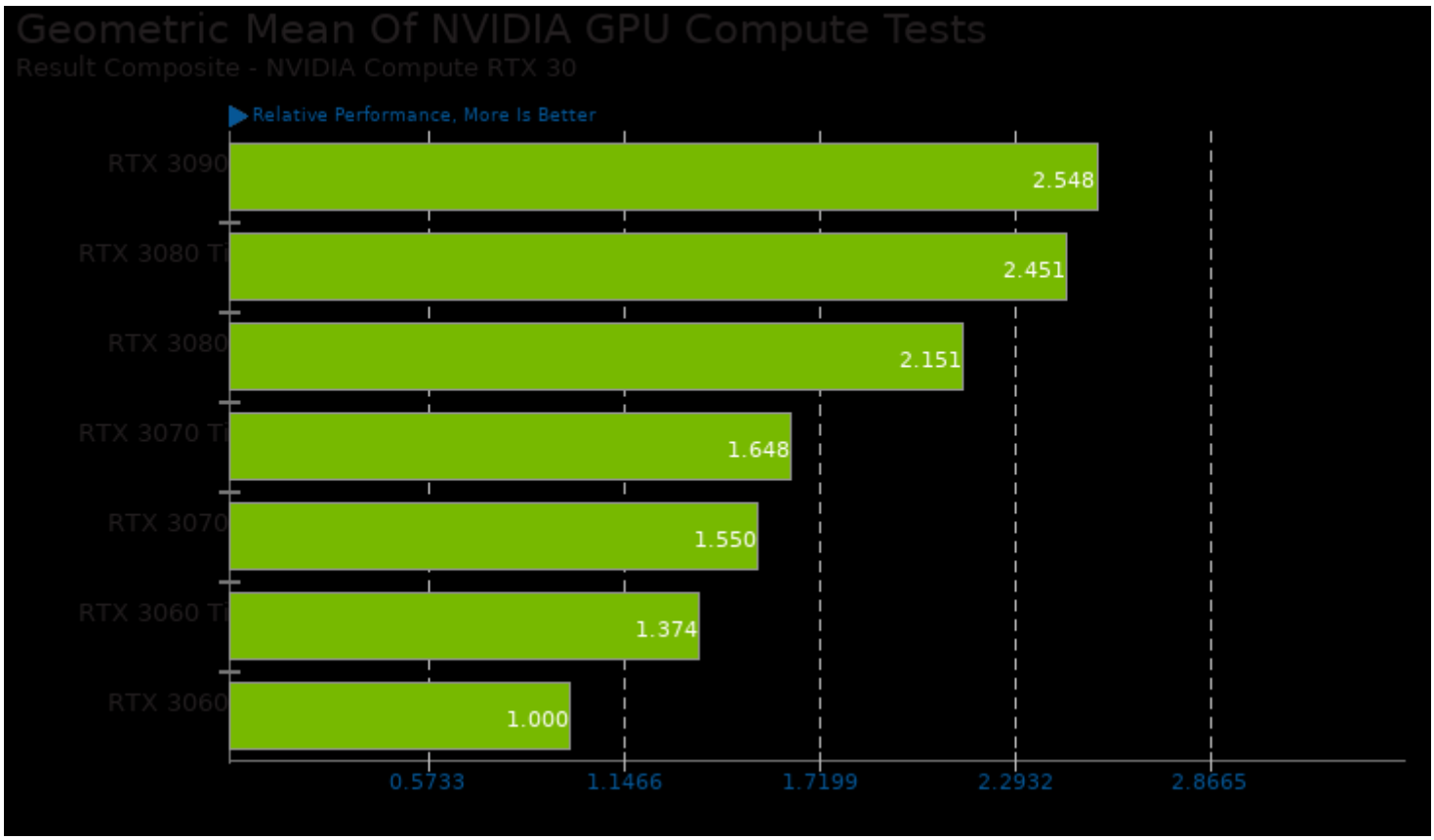


NVIDIA Compute RTX 30

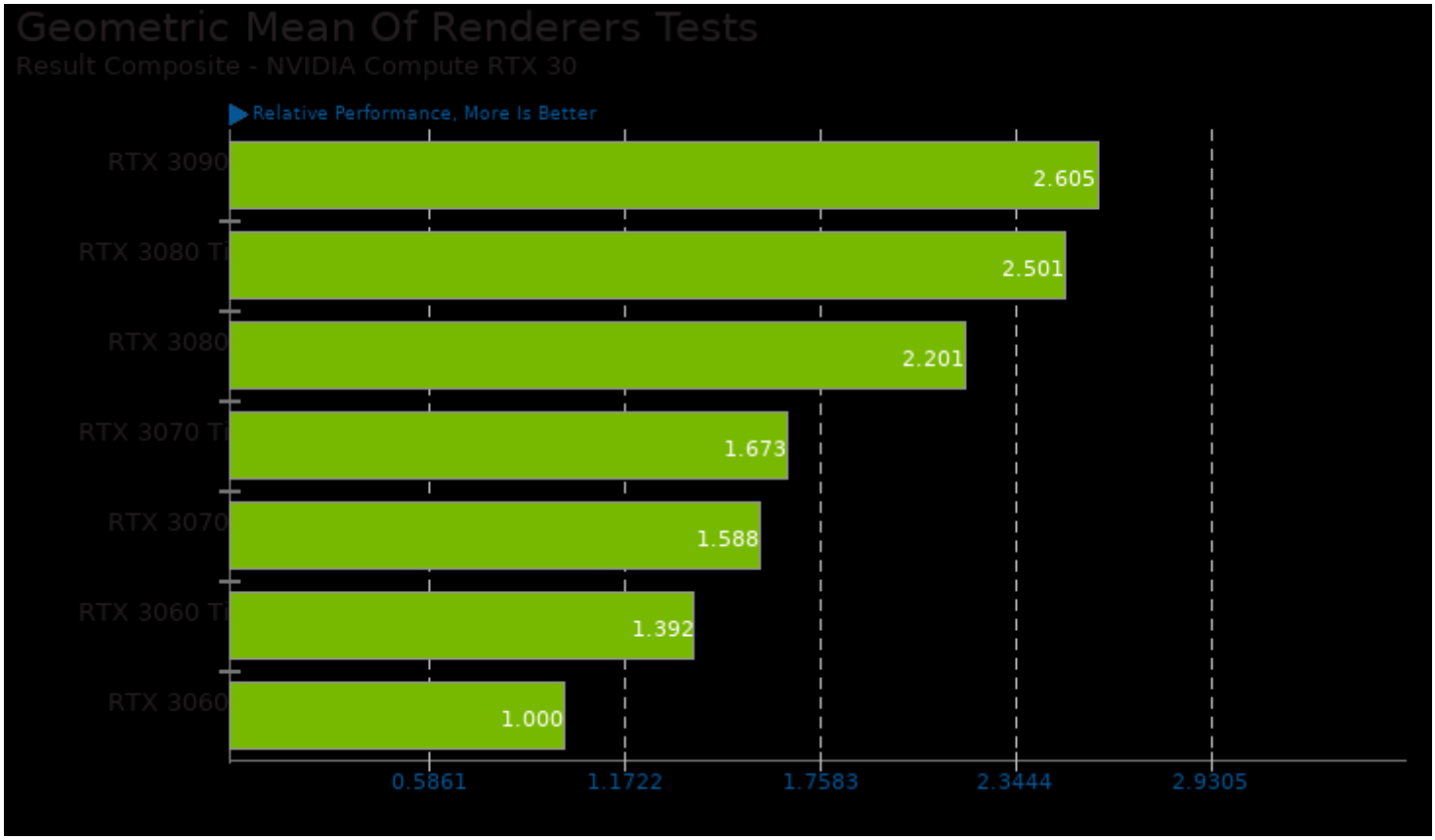
Geometric mean based upon tests: pts/blender, pts/luxcorerender, pts/v-ray and pts/indigobench



Geometric mean based upon tests: pts/blender, pts/luxcorerender, pts/v-ray and pts/indigobench



Geometric mean based upon tests: pts/octanebench, pts/luxcorerender, pts/redshift, pts/indigobench, pts/v-ray and pts/blender



Geometric mean based upon tests: pts/blender, pts/luxcorerender, pts/v-ray and pts/indigobench

This file was automatically generated via the Phoronix Test Suite benchmarking software on Thursday, 28 March 2024 17:22.