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bulldozer

AMD FX -8150 Eight-Core testing with a ASUS SABERTOOTH 990FX and NVIDIA GeForce 8800 GT 512MB on Gentoo Base release 2.1 via the Phoronix Test Suite.

Automated Executive Summary

messina had the most wins, coming in first place for 96% of the tests.

The results with the greatest spread from best to worst included:

World of Padman (1680 x 1050) at 20.643x
Tachyon (Total Time) at 8.462x
Smallpt (Global Illumination Renderer; 100 Samples) at 8.26x
C-Ray (Total Time) at 7.999x
TTSIOD 3D Renderer (Phong Rendering With Soft-Shadow Mapping) at 7.901x
NAS Parallel Benchmarks (Test / Class: LU.A) at 7.687x
7-Zip Compression (Compress Speed Test) at 7.468x
Parallel BZIP2 Compression (256MB File Compression) at 6.997x
FFmpeg (AVI To NTSC VCD) at 6.453x
Himeno Benchmark (Poisson Pressure Solver) at 5.707x.

Test Systems:

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Processor: AMD FX -8150 Eight-Core @ 3.61GHz (8 Cores), Motherboard: ASUS SABERTOOTH 990FX, Memory: 4096MB, Disk: 300GB Western Digital WDC WD3000GLFS-0 + 500GB MAXTOR STM350032, Graphics: NVIDIA GeForce 8800 GT 512MB (660/950MHz), Network: Realtek RTL8111/8168B

OS: Gentoo Base release 2.1, Kernel: 3.0.6-gentoo (x86_64), Desktop: KDE 4.7.2, Display Server: X Server 1.10.4, Display Driver: NVIDIA 285.05.09, OpenGL: 3.3.0 NVIDIA 285.05.09, Compiler: GCC 4.5.3, File-System: ext4, Screen Resolution: 1680x1050

i7_2820qm_nvidia

Processor: Intel Core i7-2820QM @ 2.30GHz (8 Cores), Motherboard: CLEVO P150HMx, Memory: 16384MB, Disk: 120GB INTEL SSDSA2M120, Graphics: NVIDIA GeForce GTX 460M 1536MB (675/1250MHz), Audio: Realtek ALC892

OS: Gentoo Base release 2.1, Kernel: 3.0.6-gentoo (x86_64), Desktop: KDE 4.7.2, Display Server: X Server 1.10.4, Display Driver: NVIDIA 285.05.09, OpenGL: 4.2.0 NVIDIA 285.05.09, Compiler: GCC 4.5.3 + llvm 2.9, File-System: ext4, Screen Resolution: 3200x1080

System Notes: Firefox was running on this system. Intel SpeedStep was enabled.

bulldozer: bulldozer #1

Processor: AMD FX -8150 Eight-Core @ 3.61GHz (8 Cores), Motherboard: ASUS SABERTOOTH 990FX, Memory: 4096MB, Disk: 300GB Western Digital WDC WD3000GLFS-0 + 500GB MAXTOR STM350032, Graphics: NVIDIA GeForce 8800 GT 512MB (660/950MHz), Network: Realtek RTL8111/8168B

OS: Gentoo Base release 2.1, Kernel: 3.0.6-gentoo (x86_64), Desktop: KDE 4.7.2, Display Server: X Server 1.10.4, Display Driver: NVIDIA 285.05.09, OpenGL: 3.3.0 NVIDIA 285.05.09, Compiler: GCC 4.5.3, File-System: ext4, Screen Resolution: 1680x1050

initial_test

Processor: AMD Athlon 64 X2 4800+ @ 2.40GHz (2 Cores), Motherboard: EPoX NF570 SLI DDR2: MF570 SLI, Chipset: NVIDIA MCP55, Memory: 8192MB, Disk: 4 x 1000GB Western Digital WDC WD1002FBYS-0 + 1000GB Western Digital WDC WD1001FALS-0, Graphics: NVIDIA GeForce 7950 GT 512MB (565/715MHz), Audio: Realtek ALC883

OS: Debian 6.0-updates, Kernel: 3.0.0-1-amd64 (x86_64), Desktop: GNOME 2.30.2, Display Server: X Server 1.11.1, Display Driver: NVIDIA 275.28, OpenGL: 2.1.2 NVIDIA 275.28, Compiler: GCC 4.6.1, File-System: ext4, Screen Resolution: 1920x1080

System Notes: AMD CnQ was enabled.

thuban 1090T

Processor: AMD Phenom II X6 1090T @ 3.40GHz (6 Cores), Motherboard: Gigabyte GA-870A-UD3, Chipset: ATI RX780/RX790, Memory: 8192MB, Disk: 2 x 1000GB Western Digital WDC WD1002FAEX-0 + 1000GB Western Digital WDC WD10EACS-00D + 2 x 1000GB Western Digital WDC WD10EACS-14Z + 2 x 25GB OCZ REVODRIVE, Graphics: NVIDIA GeForce GTS 450 1024MB (830/1804MHz), Audio: Creative Labs SB Audigy, Network: Realtek RTL8111/8168B

OS: Debian testing, Kernel: 3.0.4 (x86_64), Display Server: X Server 1.10.1, Display Driver: NVIDIA 280.13, OpenGL: 4.1.0 NVIDIA 280.13, Compiler: GCC 4.6.1, File-System: reiserfs, Screen Resolution: 3840x1080

System Notes: AMD CnQ was enabled.

bulldozer: bulldozer #2

Processor: AMD FX -8150 Eight-Core @ 3.61GHz (8 Cores), Motherboard: ASUS SABERTOOTH 990FX, Memory: 4096MB, Disk: 300GB Western Digital WDC WD3000GLFS-0 + 500GB MAXTOR STM350032, Graphics: NVIDIA GeForce 8800 GT 512MB (660/950MHz), Network: Realtek RTL8111/8168B

OS: Gentoo Base release 2.1, Kernel: 3.0.6-gentoo (x86_64), Desktop: KDE 4.7.2, Display Server: X Server 1.10.4, Display Driver: NVIDIA 285.05.09, OpenGL: 3.3.0 NVIDIA 285.05.09, Compiler: GCC 4.5.3, File-System: ext4, Screen Resolution: 1680x1050

Unity 3D

PhenomII x2-550/HD6950

Processor: AMD Phenom II X2 550 @ 3.10GHz (2 Cores), Motherboard: DFI LP DK 790GX v1.0, Chipset: AMD RS780 + SB7x0/SB8x0/SB9x0, Memory: 4096MB, Disk: 1000GB SAMSUNG HD103SJ + 1000GB Seagate ST31000528AS + 2000GB SAMSUNG HD203WI, Graphics: AMD Radeon HD 6900 2048MB (880/1300MHz), Monitor: DELL 2007FP

OS: Ubuntu 11.10, Kernel: 3.0.0-12-generic (x86_64), Desktop: Unity 4.22.0, Display Server: X Server 1.10.4, Display Driver: fglrx 8.89.4 Catalyst 11.9, OpenGL: 4.1.11079, Compiler: GCC 4.6.1, File-System: ext4, Screen Resolution: 1600x1200

System Notes: AMD CnQ was enabled.

bulldozer: bulldozer #3

Processor: AMD FX -8150 Eight-Core @ 3.61GHz (8 Cores), Motherboard: ASUS SABERTOOTH 990FX, Memory: 4096MB, Disk: 300GB Western Digital WDC WD3000GLFS-0 + 500GB MAXTOR STM350032, Graphics: NVIDIA GeForce 8800 GT 512MB (660/950MHz), Network: Realtek RTL8111/8168B

OS: Gentoo Base release 2.1, Kernel: 3.0.6-gentoo (x86_64), Desktop: KDE 4.7.2, Display Server: X Server 1.10.4, Display Driver: NVIDIA 285.05.09, OpenGL: 3.3.0 NVIDIA 285.05.09, Compiler: GCC 4.5.3, File-System: ext4, Screen Resolution: 1680x1050

bulldozer: initial_test

Processor: AMD Athlon 64 X2 4800+ @ 2.40GHz (2 Cores), Motherboard: EPoX NF570 SLI DDR2: MF570 SLI,

Chipset: NVIDIA MCP55, Memory: 8192MB, Disk: 4 x 1000GB Western Digital WDC WD1002FBYS-0 + 1000GB Western Digital WDC WD1001FALS-0, Graphics: NVIDIA GeForce 7950 GT 512MB (565/715MHz), Audio: Realtek ALC883

OS: Debian 6.0-updates, Kernel: 3.0.0-1-amd64 (x86_64), Desktop: GNOME 2.30.2, Display Server: X Server 1.11.1, Display Driver: NVIDIA 275.28, OpenGL: 2.1.2 NVIDIA 275.28, Compiler: GCC 4.6.1, File-System: ext4, Screen Resolution: 1920x1080

System Notes: AMD CnQ was enabled.

bulldozer: bulldozer #4

Processor: AMD FX -8150 Eight-Core @ 3.61GHz (8 Cores), Motherboard: ASUS SABERTOOTH 990FX, Memory: 4096MB, Disk: 300GB Western Digital WDC WD3000GLFS-0 + 500GB MAXTOR STM350032, Graphics: NVIDIA GeForce 8800 GT 512MB (660/950MHz), Network: Realtek RTL8111/8168B

OS: Gentoo Base release 2.1, Kernel: 3.0.6-gentoo (x86_64), Desktop: KDE 4.7.2, Display Server: X Server 1.10.4, Display Driver: NVIDIA 285.05.09, OpenGL: 3.3.0 NVIDIA 285.05.09, Compiler: GCC 4.5.3, File-System: ext4, Screen Resolution: 1680x1050

Comer

Processor: AMD Phenom II P920 @ 1.60GHz (4 Cores), Motherboard: AMD Guam, Chipset: AMD RS880, Memory: 4096MB, Disk: 320GB TOSHIBA MK3265GS, Graphics: ATI Mobility Radeon HD 4200 256MB (500/533MHz), Audio: ATI SBx00 Azalia, Network: Atheros AR8152 v1.1 Fast + Atheros AR928X Wireless

OS: Xilka 0.0.2 (Stuffed Panda), Kernel: 3.0.4 (x86_64), Desktop: KDE 4.7.2, Display Server: X Server 1.10.4, Display Driver: fglrx 8.88.7 Catalyst 11.3, OpenGL: 3.3.11005, Compiler: GCC 4.6.1 + PathScale 4.0.10 + llvm 2.9, File-System: ext4, Screen Resolution: 1366x768

System Notes: Thunderbird was running on this system. AMD CnQ was enabled.

bulldozer: bulldozer #5

Processor: AMD FX -8150 Eight-Core @ 3.61GHz (8 Cores), Motherboard: ASUS SABERTOOTH 990FX, Memory: 4096MB, Disk: 300GB Western Digital WDC WD3000GLFS-0 + 500GB MAXTOR STM350032, Graphics: NVIDIA GeForce 8800 GT 512MB (660/950MHz), Network: Realtek RTL8111/8168B

OS: Gentoo Base release 2.1, Kernel: 3.0.6-gentoo (x86_64), Desktop: KDE 4.7.2, Display Server: X Server 1.10.4, Display Driver: NVIDIA 285.05.09, OpenGL: 3.3.0 NVIDIA 285.05.09, Compiler: GCC 4.5.3, File-System: ext4, Screen Resolution: 1680x1050

Dacvetux x2 6000+

Processor: AMD Athlon 64 X2 6000+ @ 3.10GHz (2 Cores), Motherboard: ASUS M4A77D, Chipset: ATI RX780/RX790 + SB7x0/SB8x0/SB9x0, Memory: 4096MB, Disk: 80GB Western Digital WDC WD800JB-22JJ + 80GB Western Digital WDC WD800BB-00FJ + 320GB Western Digital WDC WD3200YS-01P + 320GB Seagate ST3320620AS, Graphics: NVIDIA GeForce 9800 GTX/9800 GTX+ 512MB (675/1100MHz), Audio: VIA VT1818S

OS: Ubuntu 11.10, Kernel: 3.0.0-12-generic (x86_64), Desktop: Unity 4.22.0, Display Server: X Server 1.10.4, Display Driver: NVIDIA 280.13, OpenGL: 3.3.0 NVIDIA 280.13, Compiler: GCC 4.6.1, File-System: ext4, Screen Resolution: 1680x1050

System Notes: Compiz and Firefox were running on this system. AMD CnQ was enabled.

bulldozer: bulldozer #6

Processor: AMD FX -8150 Eight-Core @ 3.61GHz (8 Cores), Motherboard: ASUS SABERTOOTH 990FX, Memory: 4096MB, Disk: 300GB Western Digital WDC WD3000GLFS-0 + 500GB MAXTOR STM350032, Graphics: NVIDIA GeForce 8800 GT 512MB (660/950MHz), Network: Realtek RTL8111/8168B

OS: Gentoo Base release 2.1, Kernel: 3.0.6-gentoo (x86_64), Desktop: KDE 4.7.2, Display Server: X Server 1.10.4, Display Driver: NVIDIA 285.05.09, OpenGL: 3.3.0 NVIDIA 285.05.09, Compiler: GCC 4.5.3, File-System: ext4, Screen Resolution: 1680x1050

Q9450 8GB DDR2 Radeon 6670 1GB All Stock

Processor: Intel Core 2 Quad Q9450 @ 2.66GHz (4 Cores), Chipset: Intel 82G33/G31/P35/P31 + ICH9, Memory: 8192MB, Disk: 74GB Western Digital WDC WD740GD-00FL + 2 x 1000GB Western Digital WDC WD1002FAEX-0, Graphics: AMD Radeon HD 6670 1024MB (810/1000MHz), Monitor: G220fb

OS: Slamd64 12.2.0, Kernel: 2.6.39.4 (x86_64), Desktop: Xfce 4.8.0, Display Server: X Server 1.9.5, Display Driver: fglrx 8.88.7 Catalyst 11.8, Compiler: GCC 4.4.5 + Clang 4.2.1 + llvm 2.9, File-System: ext2/ext3, Screen Resolution: 2048x1536

System Notes: Antialiasing: 2x Box. Anisotropic Filtering: 2x.

bulldozer: bulldozer #7

Processor: AMD FX -8150 Eight-Core @ 3.61GHz (8 Cores), Motherboard: ASUS SABERTOOTH 990FX, Memory: 4096MB, Disk: 300GB Western Digital WDC WD3000GLFS-0 + 500GB MAXTOR STM350032, Graphics: NVIDIA GeForce 8800 GT 512MB (660/950MHz), Network: Realtek RTL8111/8168B

OS: Gentoo Base release 2.1, Kernel: 3.0.6-gentoo (x86_64), Desktop: KDE 4.7.2, Display Server: X Server 1.10.4, Display Driver: NVIDIA 285.05.09, OpenGL: 3.3.0 NVIDIA 285.05.09, Compiler: GCC 4.5.3, File-System: ext4, Screen Resolution: 1680x1050

messina

Processor: Intel Core i7-2600K @ 3.40GHz (8 Cores), Motherboard: ASUS P8P67, Chipset: Intel 2nd Generation Core Family, Memory: 8192MB, Disk: 2 x 37GB Western Digital WDC WD360GD-00FN + 500GB Seagate ST3500630AS, Graphics: NVIDIA GeForce GTS 450 1024MB (811/1804MHz), Audio: Realtek ALC892, Network: Realtek RTL8111/8168B

OS: SUSE LINUX 11.4, Kernel: 2.6.37.6-0.5-desktop (x86_64), Desktop: KDE 4.6.00, Display Server: X Server 1.9.3, Display Driver: NVIDIA 270.26, OpenGL: 4.1.0 NVIDIA 270.26, Compiler: GCC 4.5, File-System: ext3, Screen Resolution: 3286x1200

System Notes: Intel SpeedStep was enabled.

bulldozer: bulldozer #8

Processor: AMD FX -8150 Eight-Core @ 3.61GHz (8 Cores), Motherboard: ASUS SABERTOOTH 990FX, Memory: 4096MB, Disk: 300GB Western Digital WDC WD3000GLFS-0 + 500GB MAXTOR STM350032, Graphics: NVIDIA GeForce 8800 GT 512MB (660/950MHz), Network: Realtek RTL8111/8168B

OS: Gentoo Base release 2.1, Kernel: 3.0.6-gentoo (x86_64), Desktop: KDE 4.7.2, Display Server: X Server 1.10.4, Display Driver: NVIDIA 285.05.09, OpenGL: 3.3.0 NVIDIA 285.05.09, Compiler: GCC 4.5.3, File-System: ext4, Screen Resolution: 1680x1050

bulldozer_vs_q9550

Processor: Intel Core 2 Quad Q9550 @ 2.83GHz (4 Cores), Motherboard: Gigabyte P35-DS3, Chipset: Intel 82G33/G31/P35/P31 + ICH9, Memory: 4 x 2048 MB 800MHz, Disk: 3 x 640GB Western Digital WDC WD6400AAKS-0 + 80GB INTEL SSDSA2M080 + 320GB Western Digital WDC WD3200BEKT-0, Graphics: NVIDIA GeForce 8800 GTS 512 (730/972MHz)

OS: Ubuntu 11.04, Kernel: 3.0.0 (x86_64), Display Server: X Server 1.10.1, Display Driver: NVIDIA 280.13, OpenGL: 3.3.0 NVIDIA 280.13, Compiler: GCC 4.5.2, File-System: ext4, Screen Resolution: 1920x1200

System Notes: Firefox and BOINC were running on this system.

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7-Zip Compression - C.S.T (MIPS)	18209	15484		3208	15201		4749	4638				4704		3695		8665		23956		7328
Normalized	76.01%	64.64%		13.39%	63.45%		19.82%	19.36%				19.64%		15.42%		36.17%		100%		30.59%
Standard Deviation	0.3%	2.2%		4%	0.1%		0.9%	1.1%				0.2%		1.4%		1.7%		1.6%		6.4%
Apache Benchmark - S.W.P.S (Reqs/sec	17850	29722		7087	30272		17920	17583				9317		9149		13630		38154		11237
Normalized	46.78%	77.9%		18.58%	79.34%		46.97%	46.08%				24.42%		23.98%		35.72%		100%		29.45%
Standard Deviation	0.5%	1.9%		0.4%	3.8%		0.8%	0.8%				1.6%		0.6%		5.7%		1.8%		0.5%
C-Ray - Total Time (sec)	51.07	63.87		346.67	66.55		219.67	220.05				230.78		308.08		94.16		43.34		81.38
Normalized	84.86%	67.86%		12.5%	65.12%		19.73%	19.7%				18.78%		14.07%		46.03%		100%		53.26%
Standard Deviation	0.1%	1.7%		0.1%	0.1%		0.1%	0%				0.4%		2.3%		0.1%		0%		0.5%
Crafty - Elapsed Time (sec)	426.11	363.22		823.17	415.77							970.82						249.10		485.29
Normalized	58.46%	68.58%		30.26%	59.91%							25.66%						100%		51.33%
Standard Deviation	0.8%	1.1%		3.9%	0.2%							0.3%						0.4%		0.4%

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ET: Quake Wars Demo - 1680 x 1050 (FPS)	71.75	59.60	51.93	71.90	**99.60**		**15.90**	62.30		86.40	65.15
Normalized	72.04%	59.84%	52.14%	72.19%	100%		15.96%	62.55%		86.75%	65.41%
Standard Deviation	40.8%	0%	27.3%		92.4%			11.5%		75.4%	21.2%
FFmpeg - AVI To NTSC VCD (sec)	9.98	25.85	27.86	10.90	25.50	24.96	**41.75**	18.01	13.05	**6.47**	
Normalized	64.83%	25.03%	23.22%	59.36%	25.37%	25.92%	15.5%	35.92%	49.58%	100%	
Standard Deviation	1.2%	0.8%	0.3%	3.3%	3.3%	0.4%	1.1%	2.2%	1.3%	3.4%	
FLAC Audio Encoding - WAV To FLAC (sec)	8.25	7.09	11.97	7.58	8.76	8.74	**17.70**	9.28	11.31	**4.86**	10.60
Normalized	58.91%	68.55%	40.6%	64.12%	55.48%	55.61%	27.46%	52.37%	42.97%	100%	45.85%
Standard Deviation	0.2%	0.1%	0.5%	0.4%	0.4%	0.1%	0.4%	0.3%	0.1%	1.7%	0.1%
Gcrypt Library - C.E.C (us)	280	260		240			**561**		343	**177**	408
	7	0		0			**0**		0	**7**	7
Normalized	63.31%	68.35%		74.04%			31.68%		51.81%	100%	43.48%
Standard Deviation	1%	0.7%		0.7%			0.4%		0%	0.3%	0.3%
Graphics Magick - HWB Color Space (Iterations	141	141	76	146	92	94	**61**	96		**206**	112
Normalized	68.45%	68.45%	36.89%	70.87%	44.66%	45.63%	29.61%	46.6%		100%	54.37%
Standard Deviation	0.8%	0.4%	0.8%	0%	3.1%	0%	0%	0%		0.5%	0%

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Graphics Magick - L.A.T (Iterations /min)	65	65	18	64	27	26	23	22		99	41
Normalized	65.66%	65.66%	18.18%	64.65%	27.27%	26.26%	23.23%	22.22%		100%	41.41%
Standard Deviation	0.9%	0%	0%	0%	2.2%	2.2%	0%	0%		1%	1.4%
Graphics Magick - Resizing (Iterations /min)	120	125	60	130	75	74	52	72		182	88
Normalized	65.93%	68.68%	32.97%	71.43%	41.21%	40.66%	28.57%	39.56%		100%	48.35%
Standard Deviation	0%	0.9%	0%	0%	0.8%	0%	0%	0%		1.1%	0.7%
Graphics Magick - Sharpen (Iterations /min)	61	66	33	71	29	29	24	42		100	38
Normalized	61%	66%	33%	71%	29%	29%	24%	42%		100%	38%
Standard Deviation	0%	0%	0%	0%	0%	0%	2.4%	1.4%		0.6%	1.5%
Himeno Benchmark - P.P.S (MFLOPS)	237.28	303.32	95.03	194.09	170.32	171.77	87.38	120.02	184.29	498.71	
Normalized	47.58%	60.82%	19.06%	38.92%	34.15%	34.44%	17.52%	24.07%	36.95%	100%	
Standard Deviation	0.2%	1.1%	0.2%	1.2%	0.3%	0.1%	0.7%	0.8%	0.1%	0.7%	
John The Ripper - Traditional DES (Real C/S)	391800100000	422100000000	115900000000	265000000000	227833000000	229433000000	112666000007	151133000003	283666000007	620133000003	295775000000
Normalized	63.18%	68.07%	18.69%	42.73%	36.74%	37%	18.17%	24.37%	45.74%	100%	47.7%
Standard Deviation	0.8%	1.1%	0.7%	1.1%	0.5%	0.1%	0.7%	0.2%	1%	0.4%	3.2%
John The Ripper - Blowfish (Real C/S)	954	808	742	1071	927	927	457	958	691	1181	740
Normalized	80.78%	68.42%	62.83%	90.69%	78.49%	78.49%	38.7%	81.12%	58.51%	100%	62.66%
Standard Deviation	0.2%	0.3%	0.2%	1%	0.1%	0%	0.3%	0.3%	0%	0%	0.2%

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LAME MP3 Encoding - WAV To MP3 (sec)	26.74	20.93	49.15	27.09	31.44	31.46	63.60	38.28	32.84	14.37	30.76
Normalized	53.74%	68.66%	29.24%	53.05%	45.71%	45.68%	22.59%	37.54%	43.76%	100%	46.72%
Standard Deviation	0.6%	0.7%	0.4%	0.4%	0.4%	0.3%	0.4%	0.4%	0.2%	0.5%	0.4%
NAS Parallel Benchmarks - EP.B (Mop/s)	151.52	183.32	33.65	147.22	44.28	44.21	40.43	41.76	98.54		
Normalized	82.65%	100%	18.36%	80.31%	24.15%	24.12%	22.05%	22.78%	53.75%		
Standard Deviation	2%	0.6%	0.3%	0.1%	0%	0.1%	1.8%	0.2%	1.7%		
NAS Parallel Benchmarks - IS.C (Mop/s)	111.59	164.58	64.60	90.15	84.02	83.97	46.99	71.08	83.98	237.19	108.89
Normalized	47.05%	69.39%	27.24%	38.01%	35.42%	35.4%	19.81%	29.97%	35.41%	100%	45.91%
Standard Deviation	0%	0.4%	0.3%	0.1%	0%	0.1%	13.3%	0.3%	0%	1%	0.4%
NAS Parallel Benchmarks - LU.A (Mop/s)	11771	9423	1572	8387	3219	3192	1874	1531	5172		
Normalized	100%	80.05%	13.36%	71.25%	27.34%	27.12%	15.92%	13.01%	43.94%		
Standard Deviation	0.7%	1.2%	0.1%	1.2%	0.1%	0.4%	5.9%	0.1%	0.4%		
NAS Parallel Benchmarks - MG.B (Mop/s)	5672	4561	1634	3808	2471	2444	2048	1688	2984		
Normalized	100%	80.41%	28.81%	67.13%	43.57%	43.09%	36.11%	29.76%	52.61%		
Standard Deviation	0.5%	7.1%	0.3%	0.1%	0.4%	0.2%	3.4%	0.4%	0.1%		

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NAS Parallel Benchmarks - UA.A (Mop/s)	39.95	34.49	9.01	32.43	13.47	13.38	9.85	9.82	18.68			
Normalized	100%	86.33%	22.55%	81.18%	33.72%	33.49%	24.66%	24.58%	46.76%			
Standard Deviation	1.2%	2.3%	0%	0.2%	0.2%	0.1%	1%	0.1%	0.4%			
OpenSSL - R.4.b.P (Signs/sec	68.68	79.45	45.63	67.83	58.40	58.30	29.25	59.18	39.23	115.93	41.60	
Normalized	59.24%	68.53%	39.36%	58.51%	50.38%	50.29%	25.23%	51.05%	33.84%	100%	35.88%	
Standard Deviation	0.9%	0.8%	0.3%	1%	0.1%	0%	0.2%	0.1%	0.1%	0.1%	0%	
Parallel BZIP2 Compression - 2.F.C (sec)	8.72	9.52	46.43	10.25	31.66	31.38	40.39	47.93	13.55	6.85	13.01	
Normalized	78.56%	71.95%	14.75%	66.83%	21.64%	21.83%	16.96%	14.29%	50.55%	100%	52.65%	
Standard Deviation	1.3%	1%	1%	3.8%	0.2%	0.3%	3.5%	0.9%	2.4%	5.1%	0.8%	
PostgreSQL pgbench - T.B.T.P.S	370.12	159.8	334.85	409.6	82.18	81.19	73.29	108.53	148.0	103.29		
Normalized	9.04%	39%	8.17%	100%	2.01%	1.98%	1.79%	2.65%	36.13%	2.52%		
Standard Deviation	0.1%	8.1%	1.4%	1.1%	0.8%	0.9%	44.7%	1%	5%	16.9%		
Smallpt - G.I.R.1.S (sec)	104	128	603	120	392	392	419	507	205	73	209	
Normalized	70.19%	57.03%	12.11%	60.83%	18.62%	18.62%	17.42%	14.4%	35.61%	100%	34.93%	
Standard Deviation	0.6%	0.5%	0.5%	0%	0.1%	0%	1.1%	0.9%	0%	1.4%	2.4%	
Stream - Copy (MB/s)	121128	12004	4944	8712	7518	7448	5857	4724	5632	12197	4622	
Normalized	99.44%	98.42%	40.53%	71.43%	61.64%	61.06%	48.02%	38.73%	46.18%	100%	37.9%	
Standard Deviation	0.5%	0.2%	0.4%	0.7%	0.2%	0.1%	0.3%	0.5%	0.3%	17.3%	1.4%	
Stream - Scale (MB/s)	116167	11699	4859	8402	7428	7372	5793	4664	5363	11787	4372	
Normalized	98.98%	99.25%	41.23%	71.28%	63.01%	62.54%	49.15%	39.57%	45.5%	100%	37.09%	

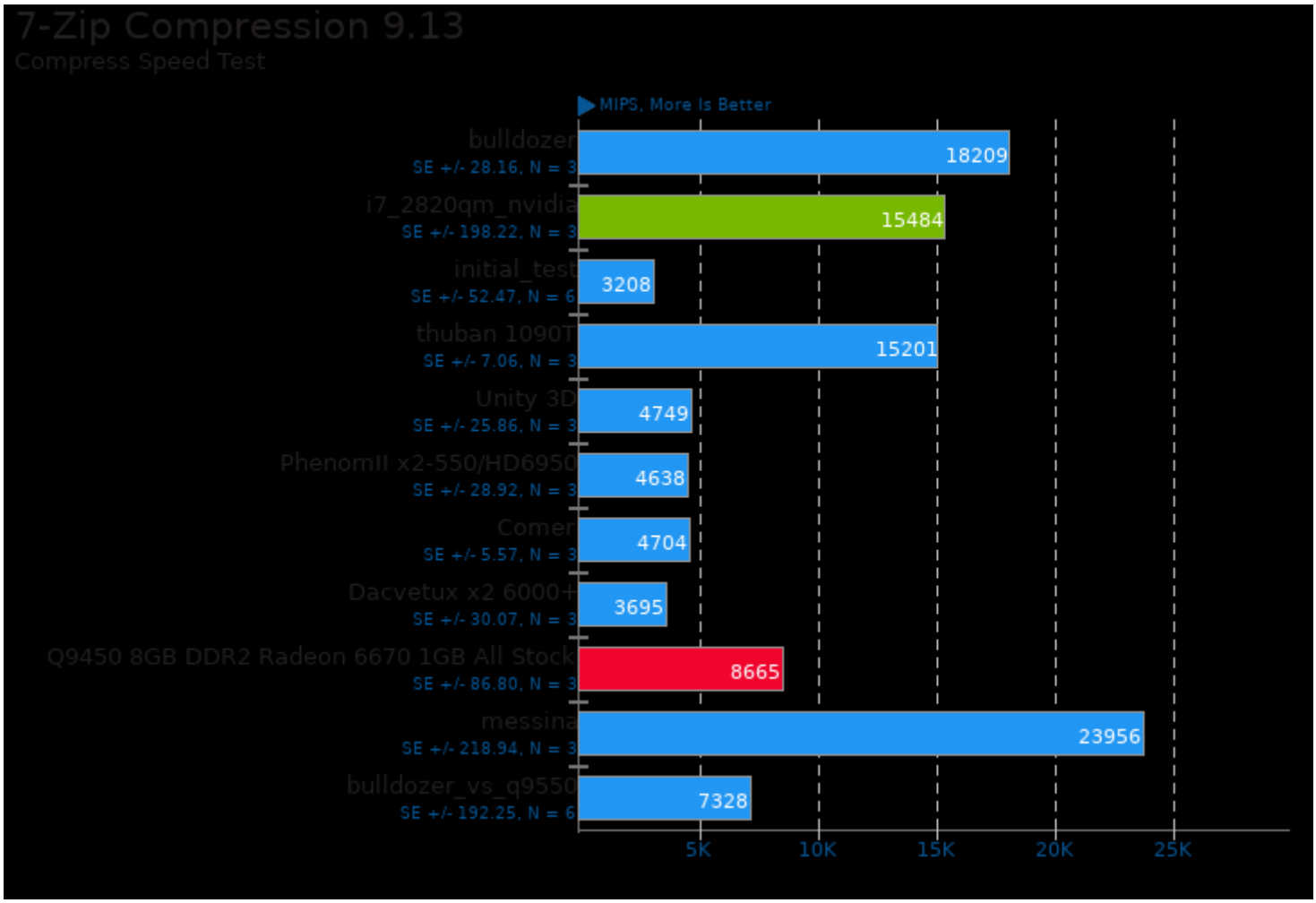
bulldozer

Standard Deviation	0.9%	0.6%	0.3%	0.1%	0.2%	0.2%		0.3%	0.4%	0.4%	18.9 %	1.4%
Stream - Add	117 74	125 74	513 9	913 0	784 6	772 3		657 6	494 9	586 5	127 32	467 2
Normalized	92.47 %	98.76 %	40.36 %	71.71 %	61.62 %	60.66 %		51.65 %	38.87 %	46.06 %	100%	36.69 %
Standard Deviation	0.1%	0.2%	0.2%	0.6%	0.2%	0.1%		0.2%	0.2%	0.3%	19.1 %	0.9%
Stream - Triad (MB/s)	121 90	128 23	516 5	935 5	796 2	783 3		660 6	496 2	607 5	129 94	480 2
Normalized	93.81 %	98.68 %	39.75 %	71.99 %	61.27 %	60.28 %		50.84 %	38.19 %	46.75 %	100%	36.96 %
Standard Deviation	0.2%	0.2%	0.2%	0.1%	0.2%	0.2%		0.1%	0.3%	0.2%	19.2 %	0.8%
Tachyon - Total Time (sec)	21.1 1	17.2 4	100. 87	21.4 5				68.6 5		39.1 6	11.9 2	
Normalized	56.47 %	69.14 %	11.82 %	55.57 %				17.36 %		30.44 %	100%	
Standard Deviation	0.6%	3.1%	0.7%	0.1%				0.6%		0.7%	0.9%	
Timed MAFFT Alignment - M.S.A (sec)	26.3 7	21.8 6	47.4 8	27.4 1	31.2 0	31.2 0		63.4 2	37.8 2	33.4 0	15.0 1	31.2 3
Normalized	56.92 %	68.66 %	31.61 %	54.76 %	48.11 %	48.11 %		23.67 %	39.69 %	44.94 %	100%	48.06 %
Standard Deviation	0.2%	0.3%	0.2%	0%	0.2%	0.2%		0.5%	0.3%	0.1%	1.1%	0.2%
TSCP - A.C.P (Nodes/s)	322 772	476 456	168 681	304 079	262 250	262 450		129 510	219 119	259 238	694 726	278 904
Normalized	46.46 %	68.58 %	24.28 %	43.77 %	37.75 %	37.78 %		18.64 %	31.54 %	37.32 %	100%	40.15 %
Standard Deviation	0.1%	0.4%	0.1%	0.8%	0%	0.1%		0.3%	0.2%	0.1%	0.2%	0.3%
TTSIOD 3D Renderer - P.R.W.S.S.M (FPS)	116. 06	83.6 4	26.9 5	103. 52	40.1 9	36.9 9		20.7 7	28.6 8	55.2 0	164. 11	73.2 2
Normalized	70.72 %	50.97 %	16.42 %	63.08 %	24.49 %	22.54 %		12.66 %	17.48 %	33.64 %	100%	44.62 %
Standard Deviation	0.9%	4.1%	0.1%	0.9%	1.1%	0.2%		11%	0.1%	0.1%	12.7 %	0.2%

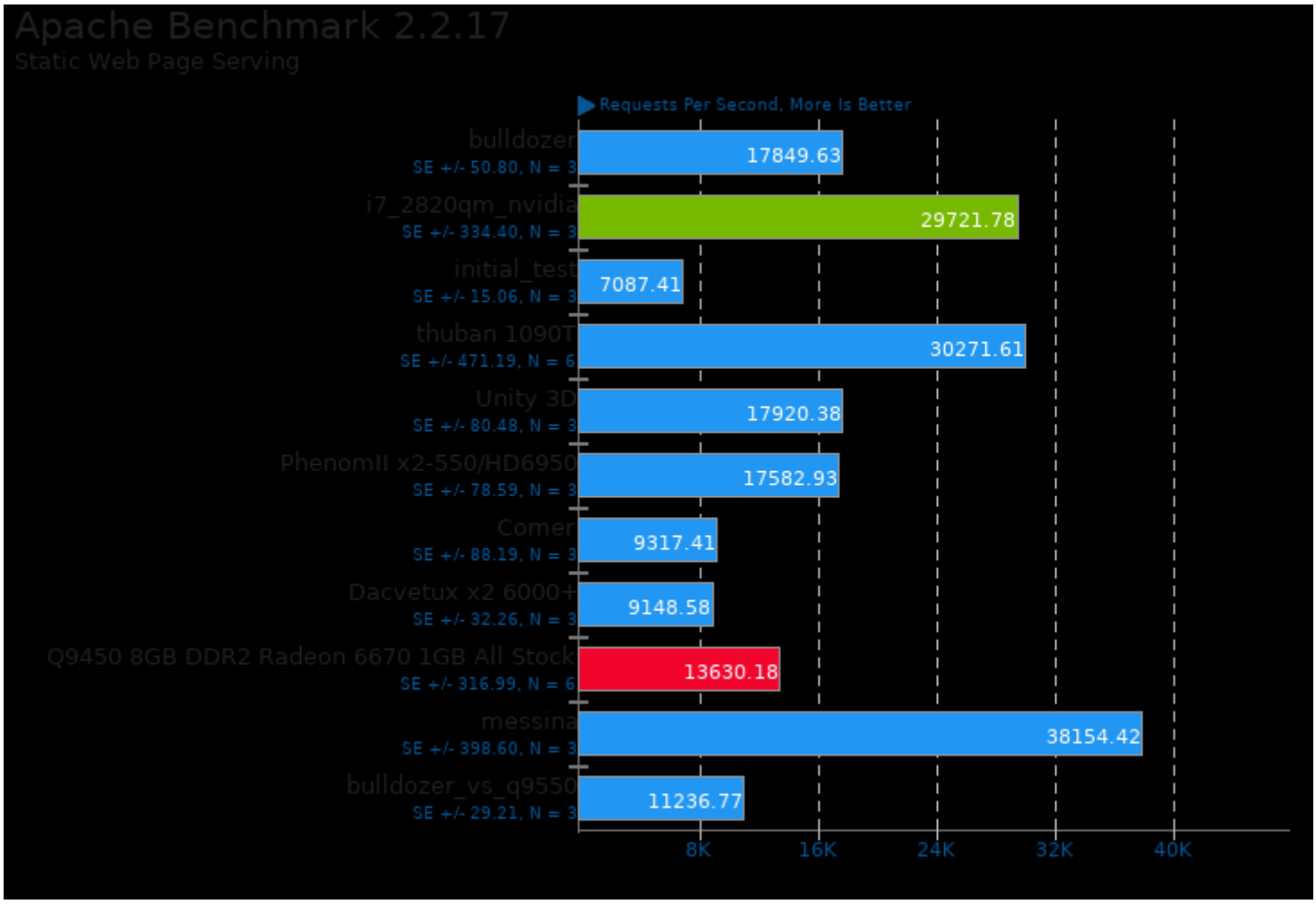
bulldozer

World of Padman - 1680 x 1050 (FPS)	431.10	363.40	202.90	406.80	71.65	148.50	**28.33**	225.90		**584.83**	294.70	
Normalized	73.71%	62.14%	34.69%	69.56%	12.25%	25.39%	4.84%	38.63%		100%	50.39%	
Standard Deviation	0.7%	0.7%	2.7%	0.4%	7.2%	1.8%	0.4%	0.3%		0.9%	1.2%	
World of Padman - 2x Box - 2x (FPS)									186.30			
Standard Deviation									0.9%			

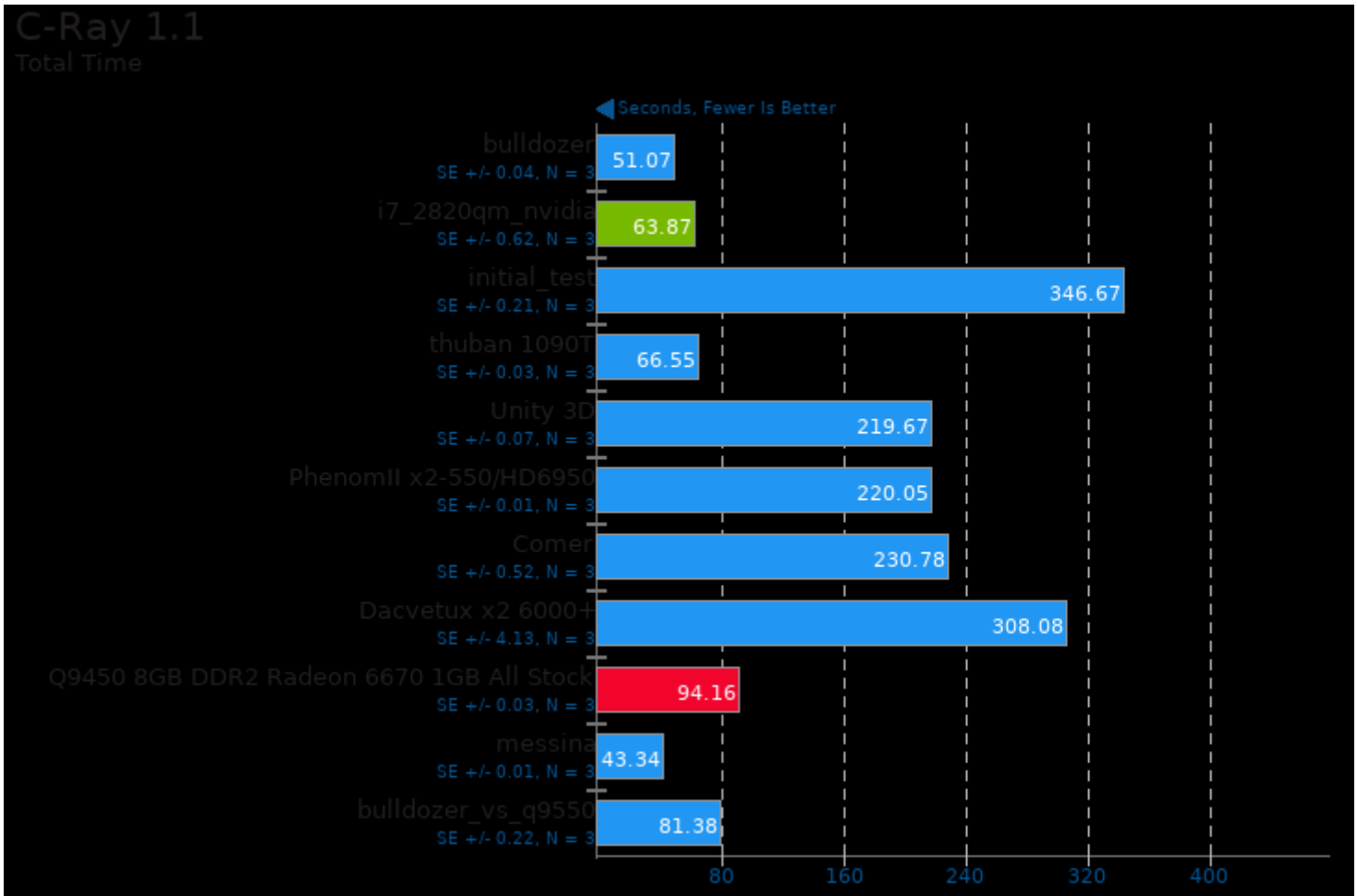
bulldozer

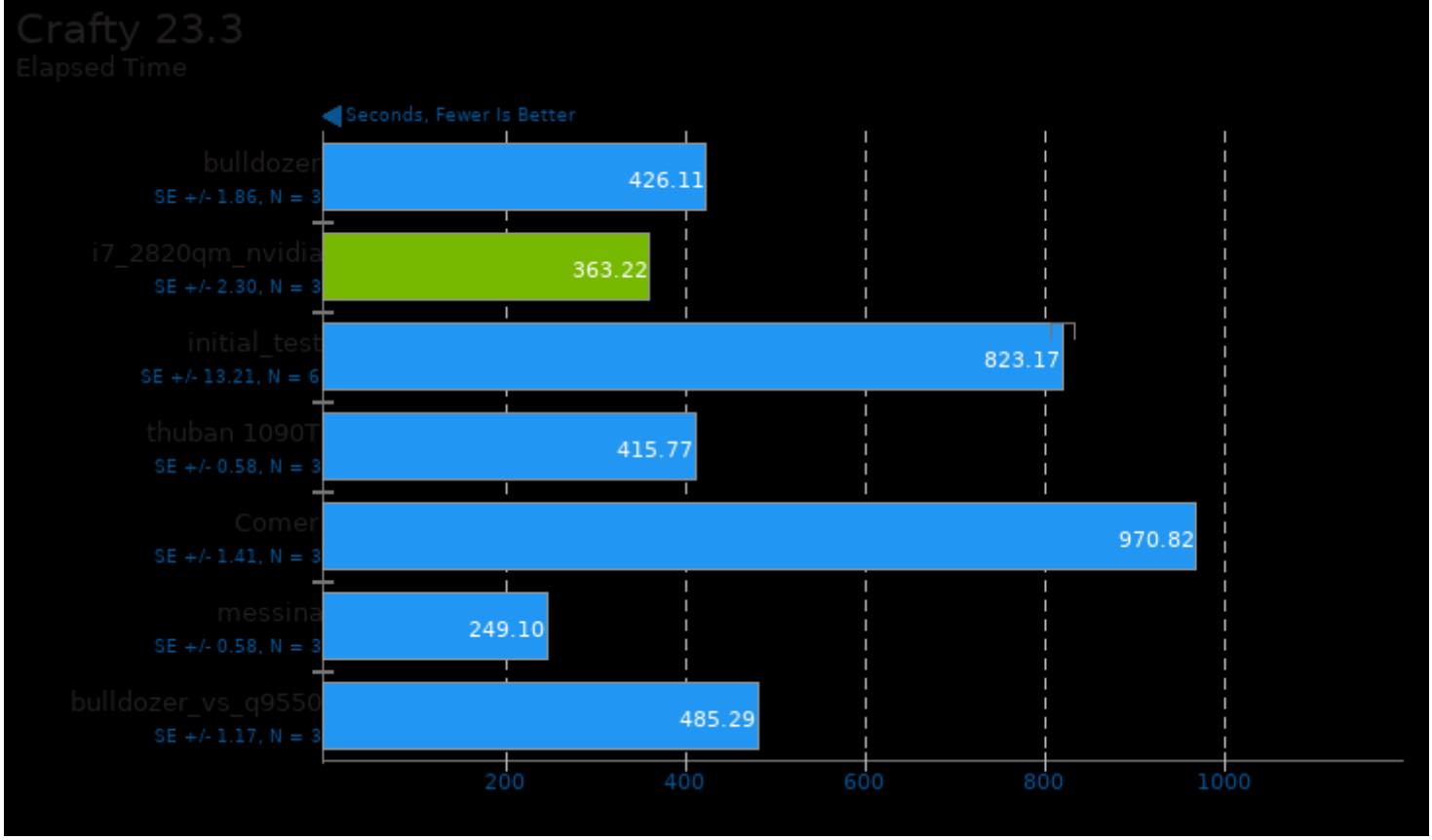

7-Zip Compression 9.13
Compress Speed Test
MIPS, More Is Better
bulldozer
SE +/- 28.16, N = 3
18209
i7_2820qm_nvidia
SE +/- 198.22, N = 3
15484
initial_test
SE +/- 52.47, N = 6
3208
thuban 1090T
SE +/- 7.06, N = 3
15201
Unity 3D
SE +/- 25.86, N = 3
4749
PhenomII x2-550/HD6950
SE +/- 28.92, N = 3
4638
Comer
SE +/- 5.57, N = 3
4704
Dacvetux x2 6000+
SE +/- 30.07, N = 3
3695
Q9450 8GB DDR2 Radeon 6670 1GB All Stock
SE +/- 86.80, N = 3
8665
messina
SE +/- 218.94, N = 3
23956
bulldozer_vs_q9550
SE +/- 192.25, N = 6
7328
5K
10K
15K
20K
25K

bulldozer

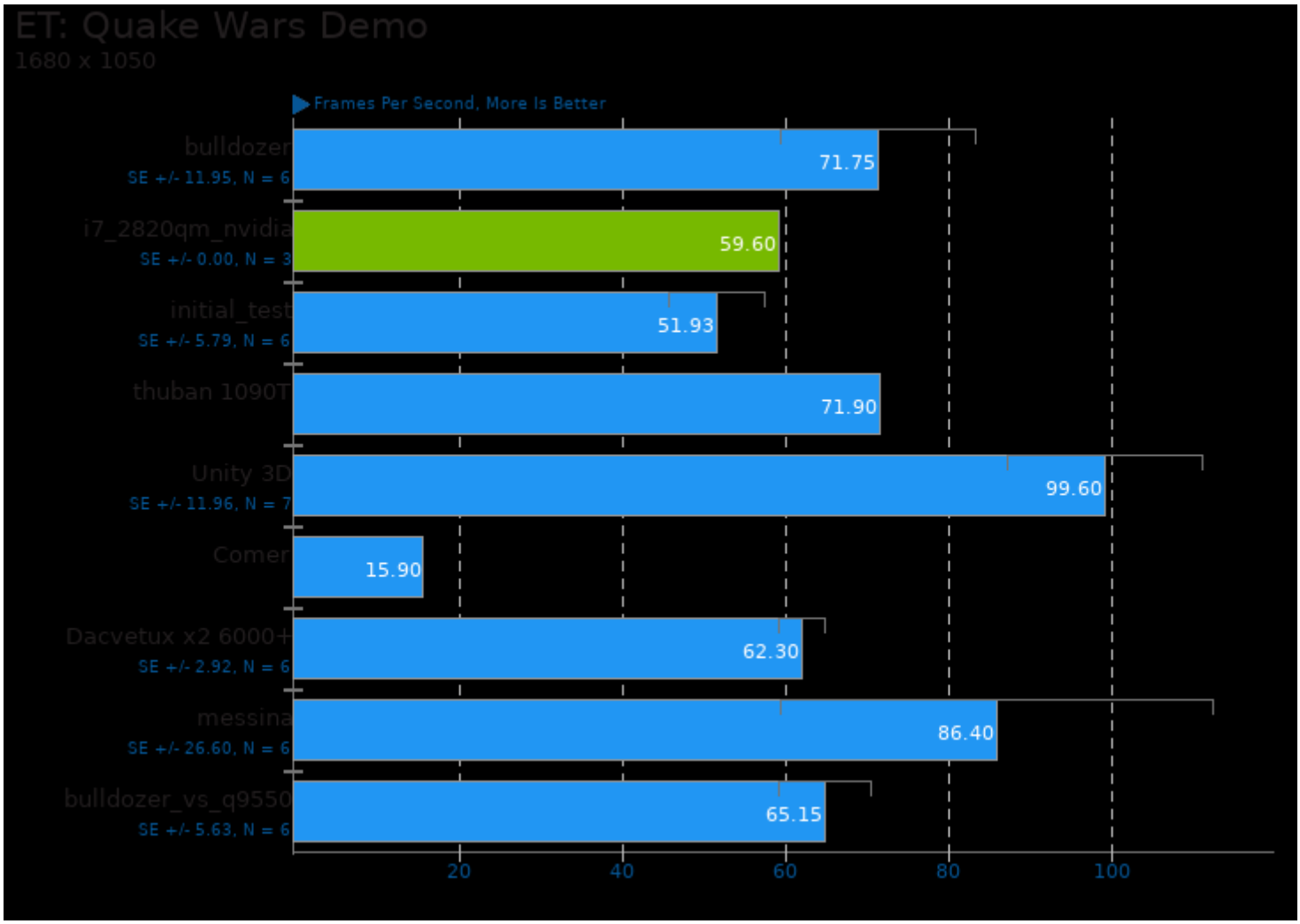

Apache Benchmark 2.2.17
Static Web Page Serving
Requests Per Second, More Is Better
bulldozer
SE +/- 50.80, N = 3
17849.63
i7_2820qm_nvidia
SE +/- 334.40, N = 3
29721.78
initial_test
SE +/- 15.06, N = 3
7087.41
thuban 1090T
SE +/- 471.19, N = 6
30271.61
Unity 3D
SE +/- 80.48, N = 3
17920.38
PhenomII x2-550/HD6950
SE +/- 78.59, N = 3
17582.93
Comer
SE +/- 88.19, N = 3
9317.41
Dacvetux x2 6000+
SE +/- 32.26, N = 3
9148.58
Q9450 8GB DDR2 Radeon 6670 1GB All Stock
SE +/- 316.99, N = 6
13630.18
messina
SE +/- 398.60, N = 3
38154.42
bulldozer_vs_q9550
SE +/- 29.21, N = 3
11236.77
8K
16K
24K
32K
40K

bulldozer

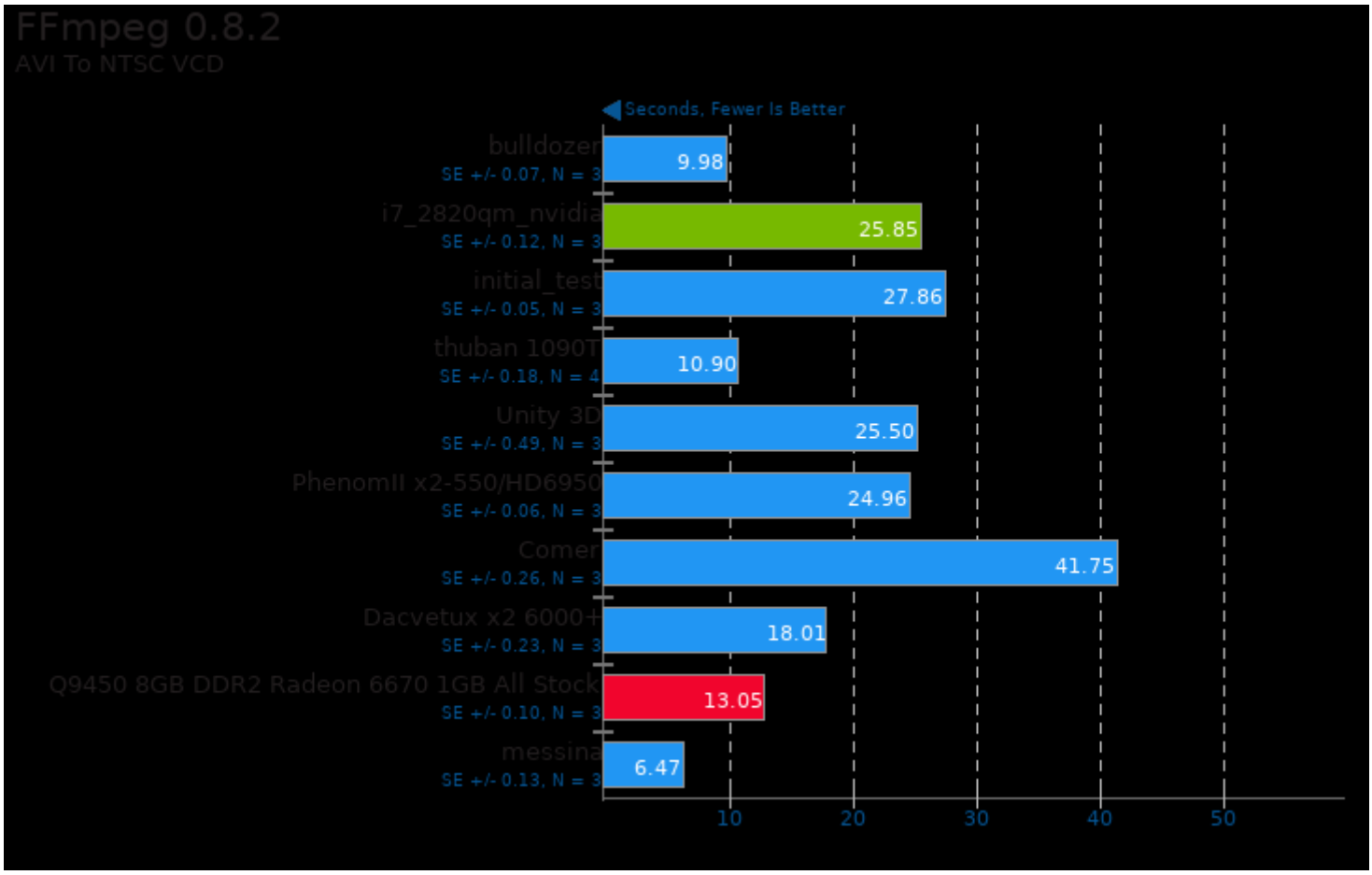

C-Ray 1.1
Total Time
Seconds, Fewer Is Better
bulldozer
SE +/- 0.04, N = 3
51.07
i7_2820qm_nvidia
SE +/- 0.62, N = 3
63.87
initial_test
SE +/- 0.21, N = 3
346.67
thuban 1090T
SE +/- 0.03, N = 3
66.55
Unity 3D
SE +/- 0.07, N = 3
219.67
PhenomII x2-550/HD6950
SE +/- 0.01, N = 3
220.05
Comer
SE +/- 0.52, N = 3
230.78
Dacvetux x2 6000+
SE +/- 4.13, N = 3
308.08
Q9450 8GB DDR2 Radeon 6670 1GB All Stock
SE +/- 0.03, N = 3
94.16
messina
SE +/- 0.01, N = 3
43.34
bulldozer_vs_q9550
SE +/- 0.22, N = 3
81.38
80
160
240
320
400


Crafty 23.3
Elapsed Time
Seconds, Fewer Is Better
bulldozer
SE +/- 1.86, N = 3
426.11
i7_2820qm_nvidia
SE +/- 2.30, N = 3
363.22
initial_test
SE +/- 13.21, N = 6
823.17
thuban 1090T
SE +/- 0.58, N = 3
415.77
Comer
SE +/- 1.41, N = 3
970.82
messina
SE +/- 0.58, N = 3
249.10
bulldozer_vs_q9550
SE +/- 1.17, N = 3
485.29
200
400
600
800
1000

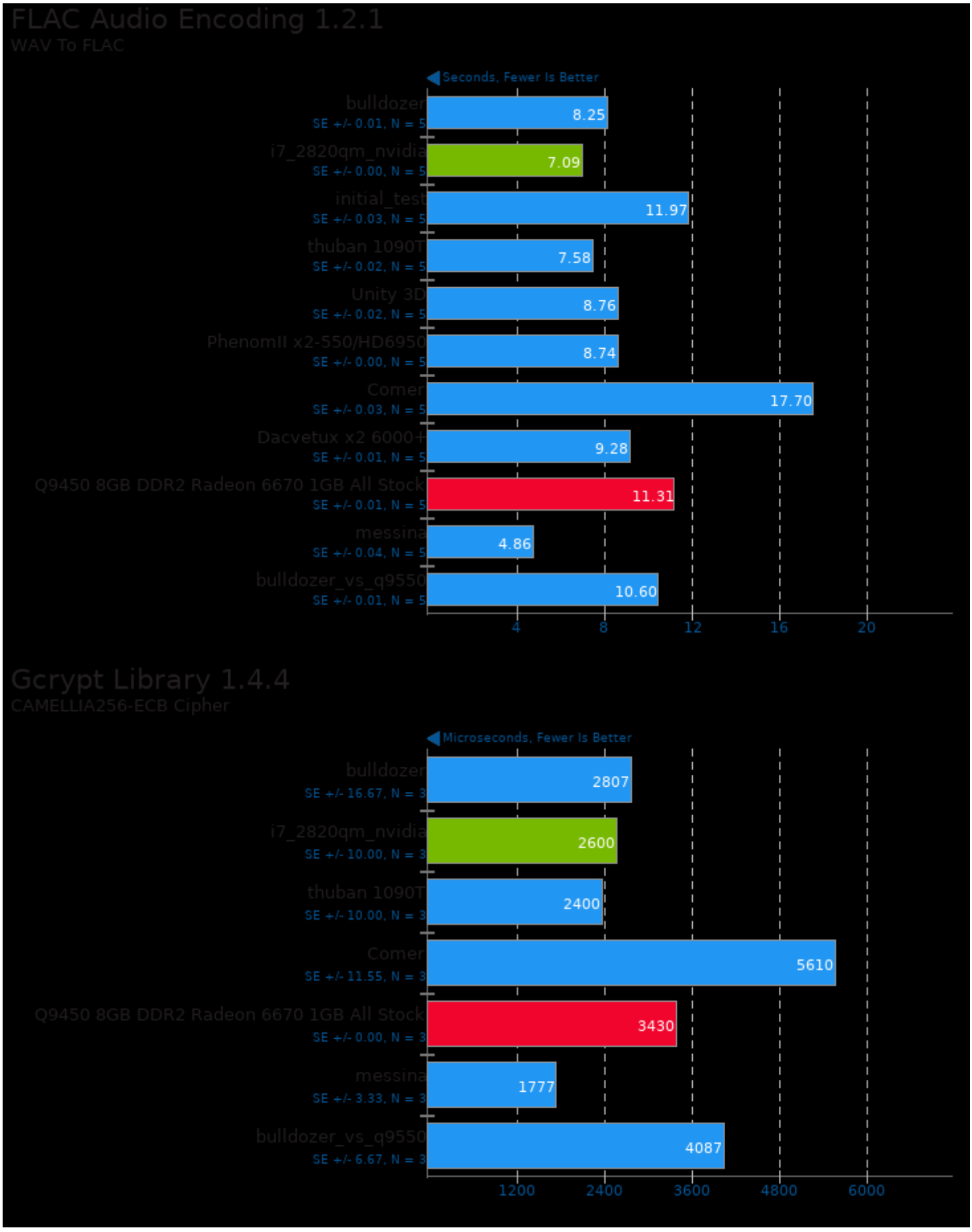
bulldozer


ET: Quake Wars Demo
1680 x 1050
Frames Per Second, More Is Better
bulldozer
SE +/- 11.95, N = 6
71.75
i7_2820qm_nvidia
SE +/- 0.00, N = 3
59.60
initial_test
SE +/- 5.79, N = 6
51.93
thuban 1090T
71.90
Unity 3D
SE +/- 11.96, N = 7
99.60
Comer
15.90
Dacvetux x2 6000+
SE +/- 2.92, N = 6
62.30
messina
SE +/- 26.60, N = 6
86.40
bulldozer_vs_q9550
SE +/- 5.63, N = 6
65.15
20
40
60
80
100

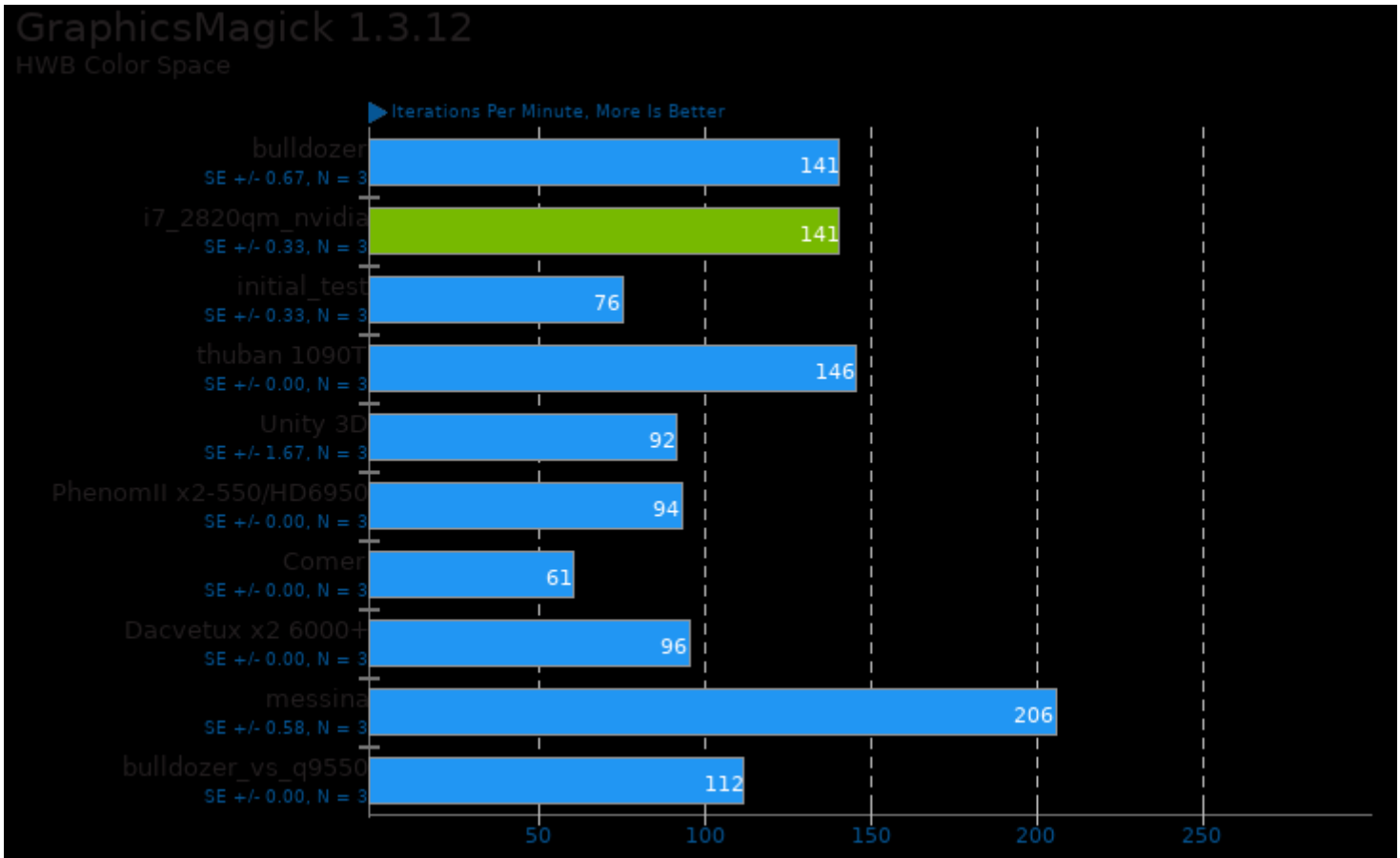
bulldozer

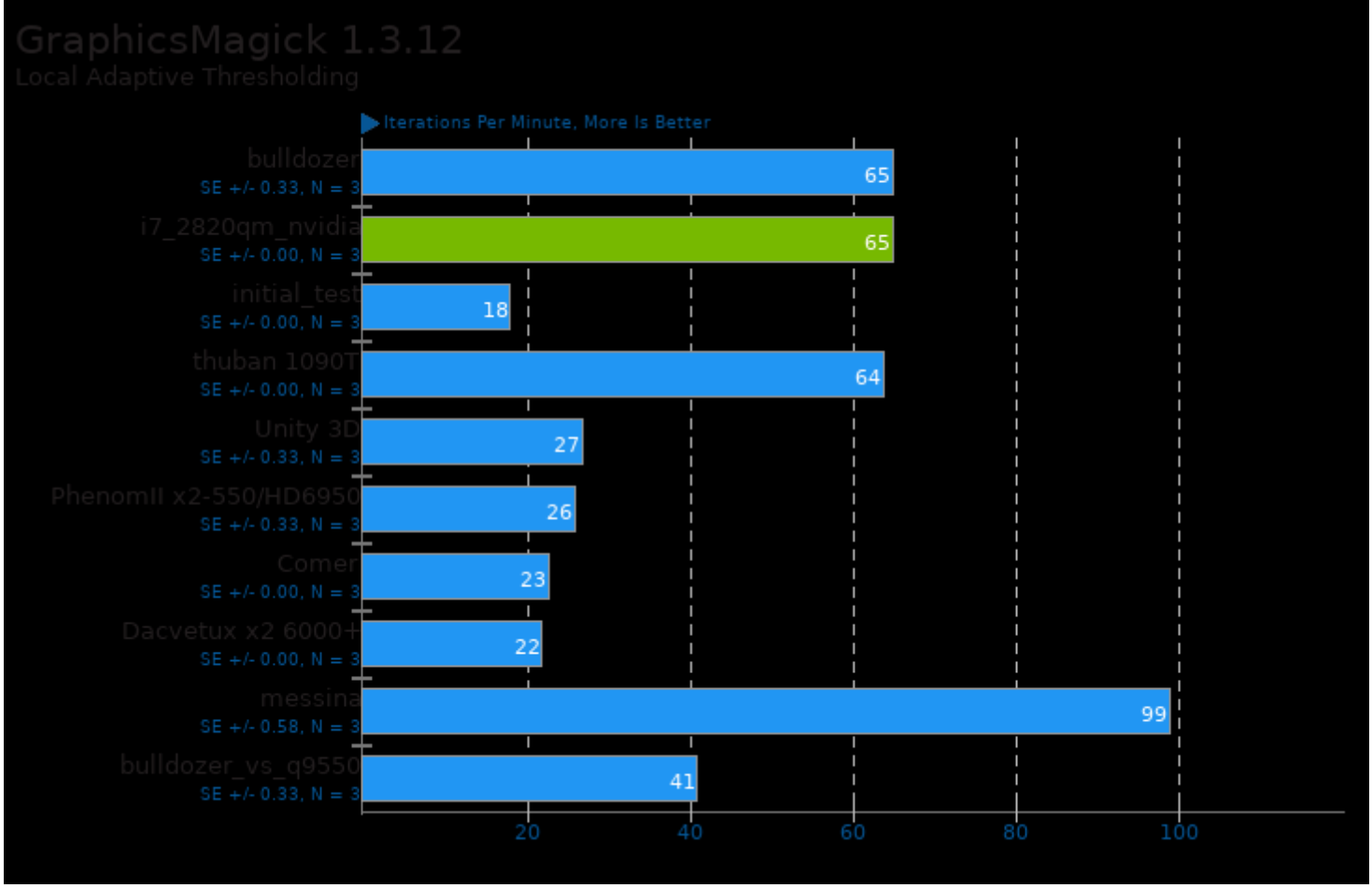

FFmpeg 0.8.2
AVI To NTSC VCD
Seconds, Fewer Is Better
bulldozer
SE +/- 0.07, N = 3
9.98
i7_2820qm_nvidia
SE +/- 0.12, N = 3
25.85
initial_test
SE +/- 0.05, N = 3
27.86
thuban 1090T
SE +/- 0.18, N = 4
10.90
Unity 3D
SE +/- 0.49, N = 3
25.50
PhenomII x2-550/HD6950
SE +/- 0.06, N = 3
24.96
Comer
SE +/- 0.26, N = 3
41.75
Dacvetux x2 6000+
SE +/- 0.23, N = 3
18.01
Q9450 8GB DDR2 Radeon 6670 1GB All Stock
SE +/- 0.10, N = 3
13.05
messina
SE +/- 0.13, N = 3
6.47
10
20
30
40
50

bulldozer

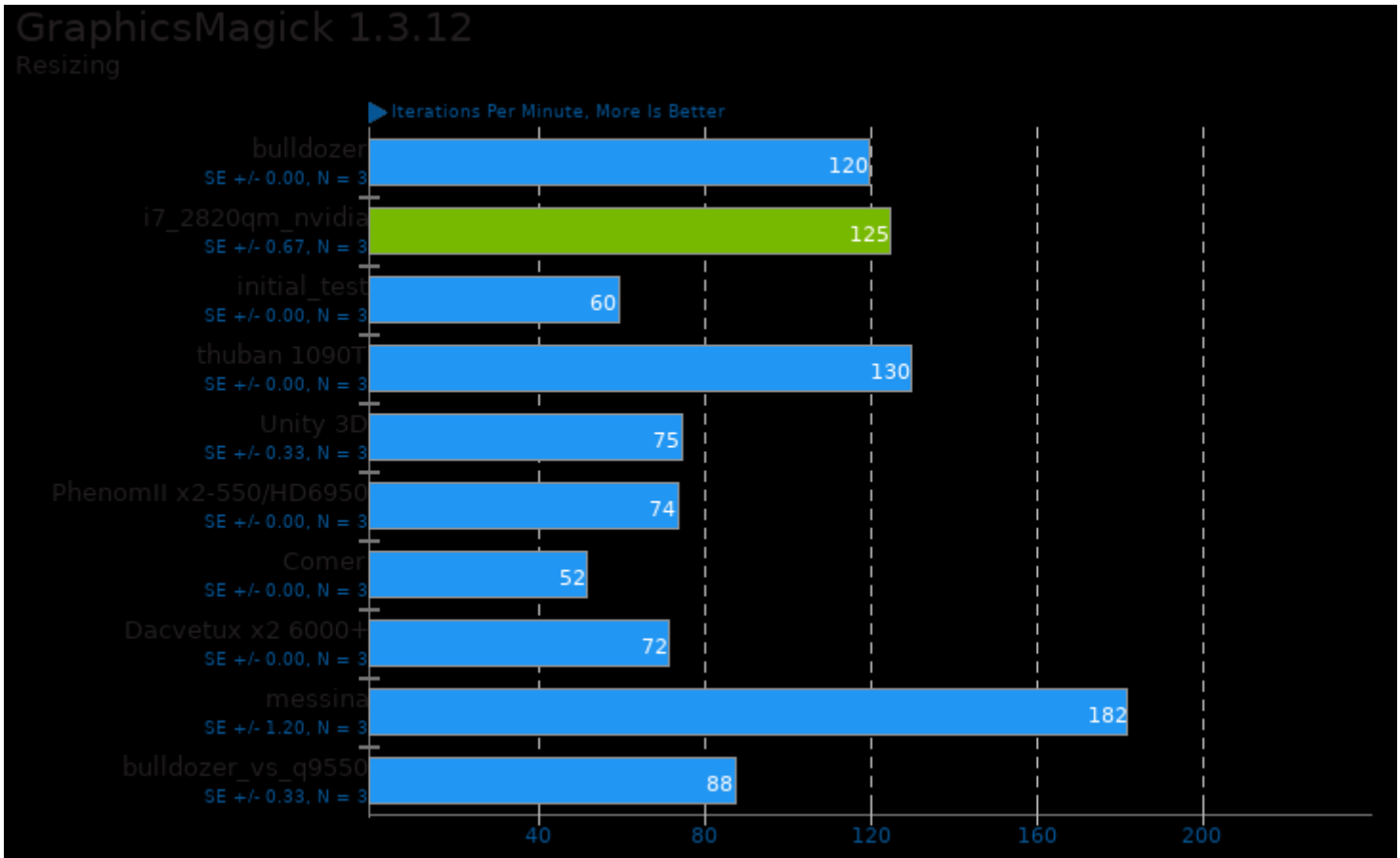

FLAC Audio Encoding 1.2.1
WAV To FLAC
Seconds, Fewer Is Better
bulldozer
SE +/- 0.01, N = 5
8.25
i7_2820qm_nvidia
SE +/- 0.00, N = 5
7.09
initial_test
SE +/- 0.03, N = 5
11.97
thuban 1090T
SE +/- 0.02, N = 5
7.58
Unity 3D
SE +/- 0.02, N = 5
8.76
PhenomII x2-550/HD6950
SE +/- 0.00, N = 5
8.74
Comer
SE +/- 0.03, N = 5
17.70
Dacvetux x2 6000+
SE +/- 0.01, N = 5
9.28
Q9450 8GB DDR2 Radeon 6670 1GB All Stock
SE +/- 0.01, N = 5
11.31
messina
SE +/- 0.04, N = 5
4.86
bulldozer_vs_q9550
SE +/- 0.01, N = 5
10.60
4
8
12
16
20
Gcrypt Library 1.4.4
CAMELLIA256-ECB Cipher
Microseconds, Fewer Is Better
bulldozer
SE +/- 16.67, N = 3
2807
i7_2820qm_nvidia
SE +/- 10.00, N = 3
2600
thuban 1090T
SE +/- 10.00, N = 3
2400
Comer
SE +/- 11.55, N = 3
5610
Q9450 8GB DDR2 Radeon 6670 1GB All Stock
SE +/- 0.00, N = 3
3430
messina
SE +/- 3.33, N = 3
1777
bulldozer_vs_q9550
SE +/- 6.67, N = 3
4087
1200
2400
3600
4800
6000

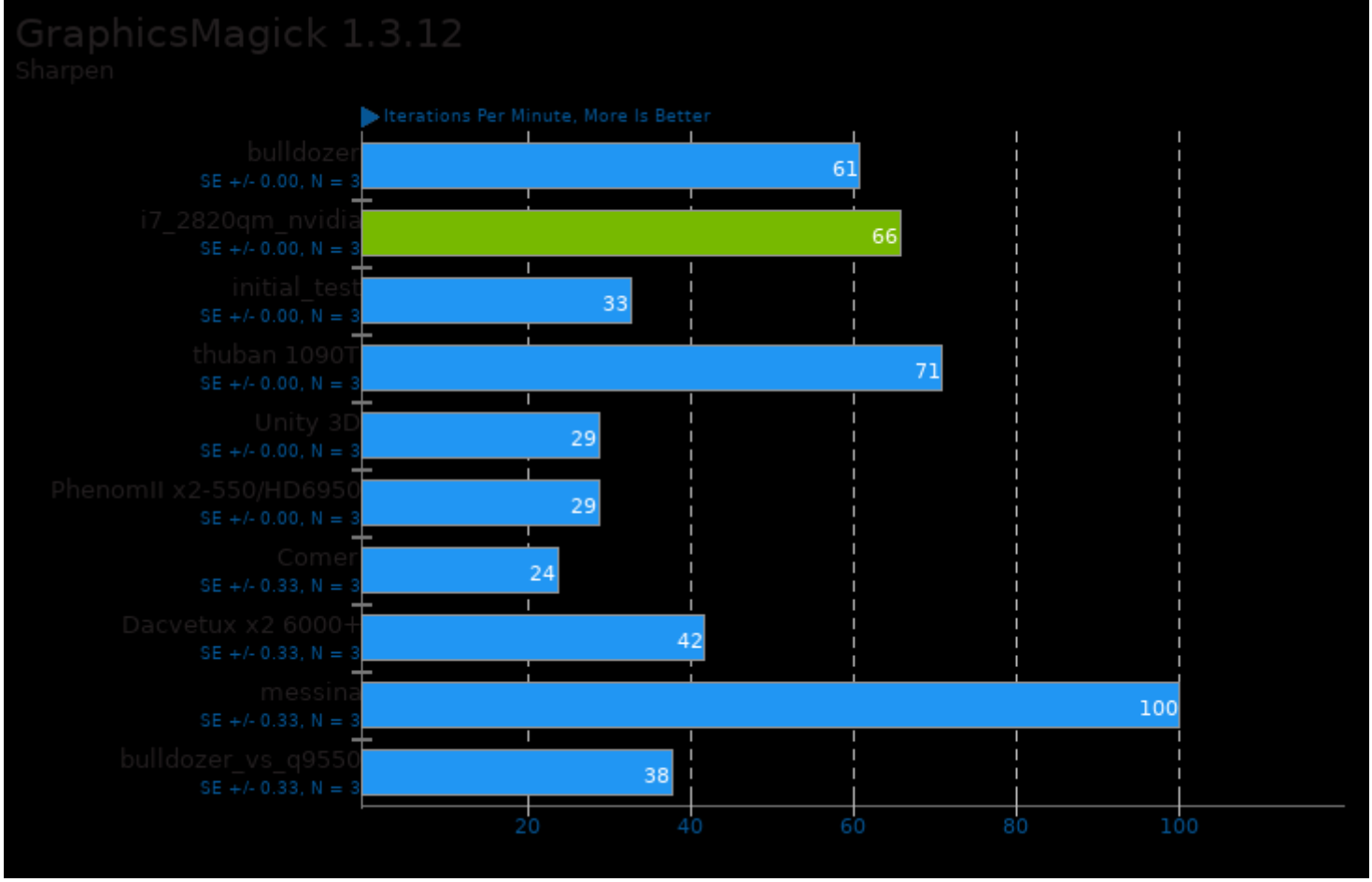
bulldozer


GraphicsMagick 1.3.12
HWB Color Space
Iterations Per Minute, More Is Better
bulldozer
SE +/- 0.67, N = 3
141
i7_2820qm_nvidia
SE +/- 0.33, N = 3
141
initial_test
SE +/- 0.33, N = 3
76
thuban 1090T
SE +/- 0.00, N = 3
146
Unity 3D
SE +/- 1.67, N = 3
92
PhenomII x2-550/HD6950
SE +/- 0.00, N = 3
94
Comer
SE +/- 0.00, N = 3
61
Dacvetux x2 6000+
SE +/- 0.00, N = 3
96
messina
SE +/- 0.58, N = 3
206
bulldozer_vs_q9550
SE +/- 0.00, N = 3
112
50
100
150
200
250

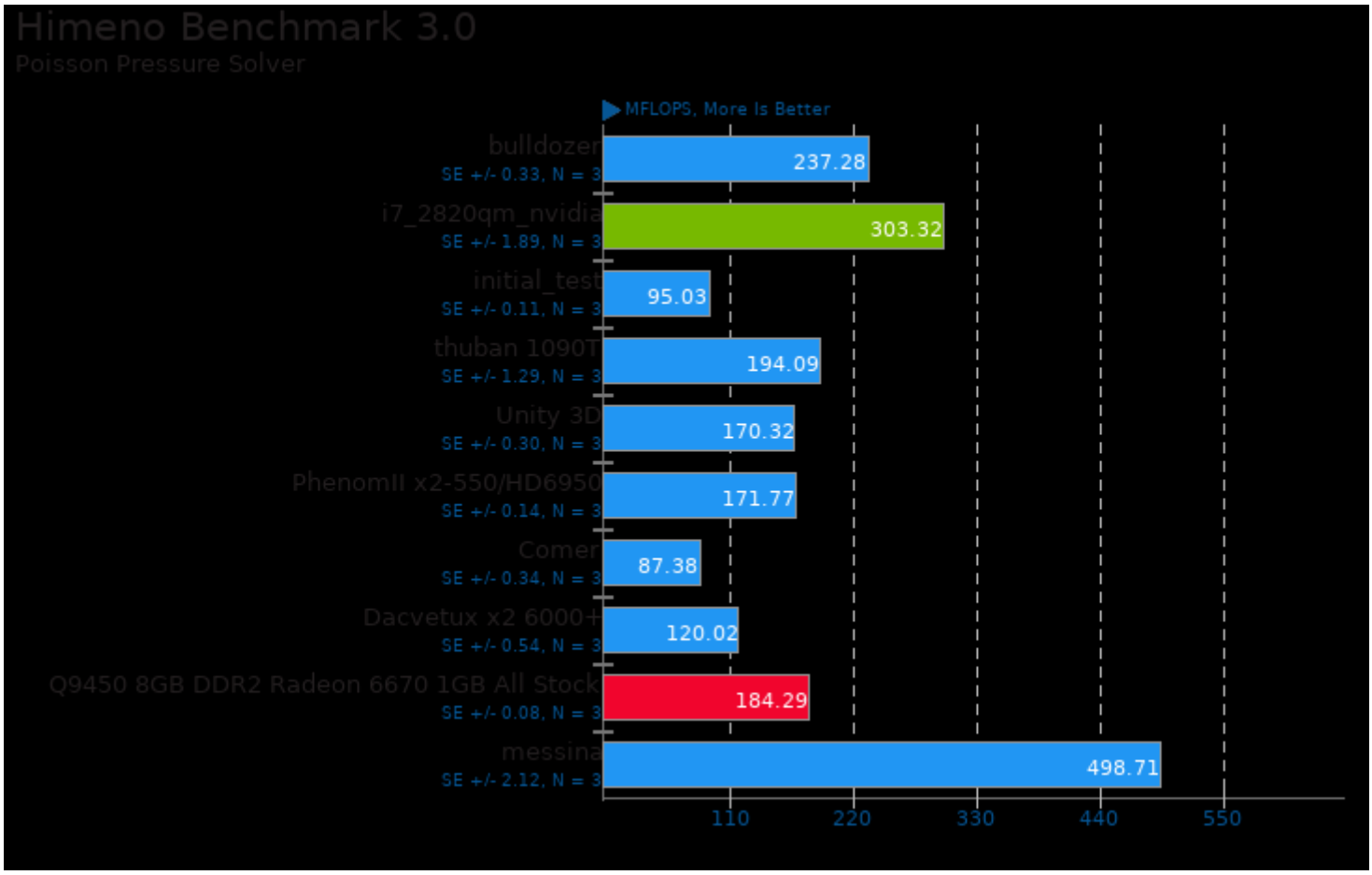

GraphicsMagick 1.3.12
Local Adaptive Thresholding
Iterations Per Minute, More Is Better
bulldozer
SE +/- 0.33, N = 3
65
i7_2820qm_nvidia
SE +/- 0.00, N = 3
65
initial_test
SE +/- 0.00, N = 3
18
thuban 1090T
SE +/- 0.00, N = 3
64
Unity 3D
SE +/- 0.33, N = 3
27
PhenomII x2-550/HD6950
SE +/- 0.33, N = 3
26
Comer
SE +/- 0.00, N = 3
23
Dacvetux x2 6000+
SE +/- 0.00, N = 3
22
messina
SE +/- 0.58, N = 3
99
bulldozer_vs_q9550
SE +/- 0.33, N = 3
41
20
40
60
80
100

bulldozer

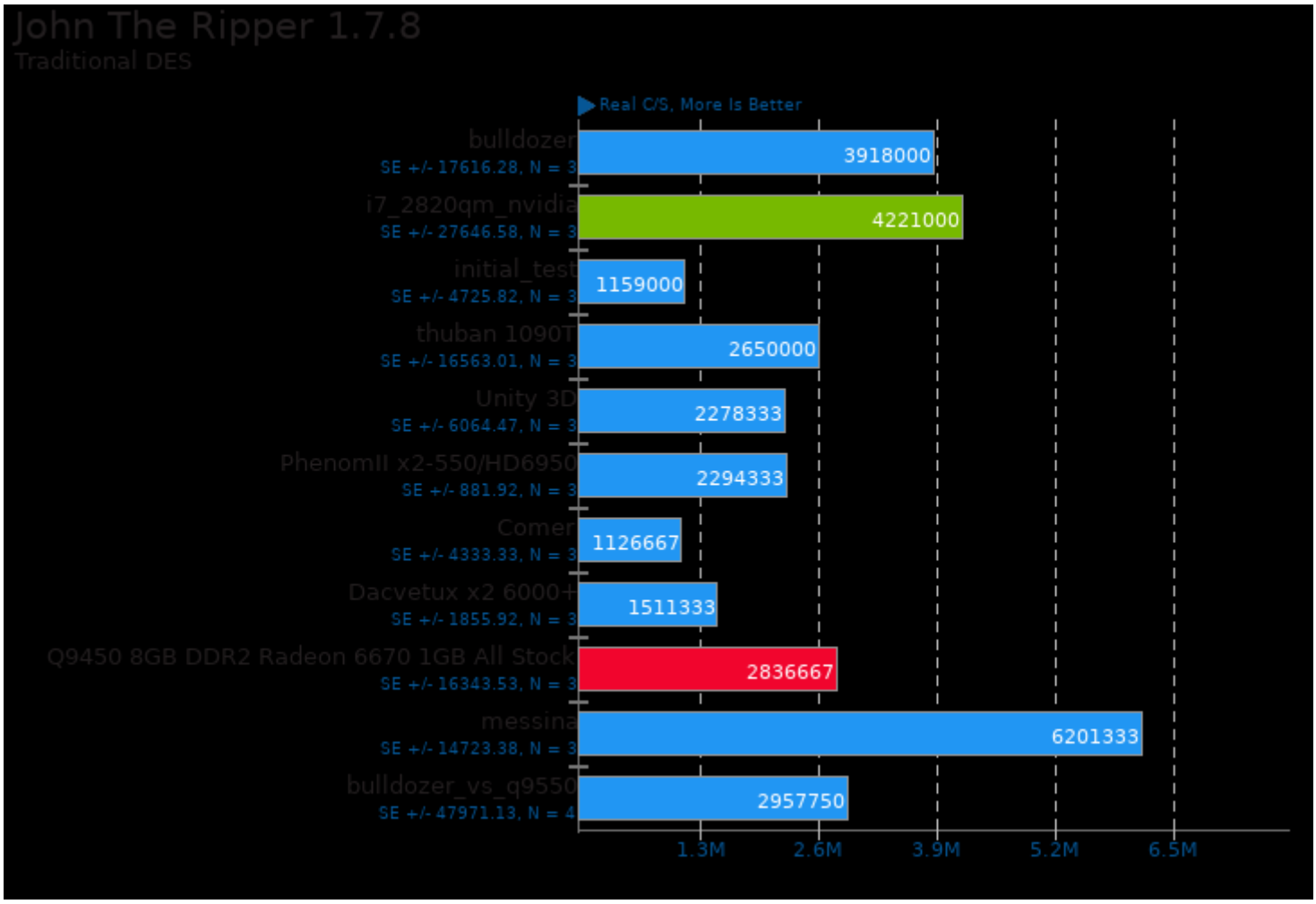

GraphicsMagick 1.3.12
Resizing
Iterations Per Minute, More Is Better
bulldozer
SE +/- 0.00, N = 3
120
i7_2820qm_nvidia
SE +/- 0.67, N = 3
125
initial_test
SE +/- 0.00, N = 3
60
thuban 1090T
SE +/- 0.00, N = 3
130
Unity 3D
SE +/- 0.33, N = 3
75
PhenomII x2-550/HD6950
SE +/- 0.00, N = 3
74
Comer
SE +/- 0.00, N = 3
52
Dacvetux x2 6000+
SE +/- 0.00, N = 3
72
messina
SE +/- 1.20, N = 3
182
bulldozer_vs_q9550
SE +/- 0.33, N = 3
88
40
80
120
160
200


GraphicsMagick 1.3.12
Sharpen
Iterations Per Minute, More Is Better
bulldozer
SE +/- 0.00, N = 3
61
i7_2820qm_nvidia
SE +/- 0.00, N = 3
66
initial_test
SE +/- 0.00, N = 3
33
thuban 1090T
SE +/- 0.00, N = 3
71
Unity 3D
SE +/- 0.00, N = 3
29
PhenomII x2-550/HD6950
SE +/- 0.00, N = 3
29
Comer
SE +/- 0.33, N = 3
24
Dacvetux x2 6000+
SE +/- 0.33, N = 3
42
messina
SE +/- 0.33, N = 3
100
bulldozer_vs_q9550
SE +/- 0.33, N = 3
38
20
40
60
80
100

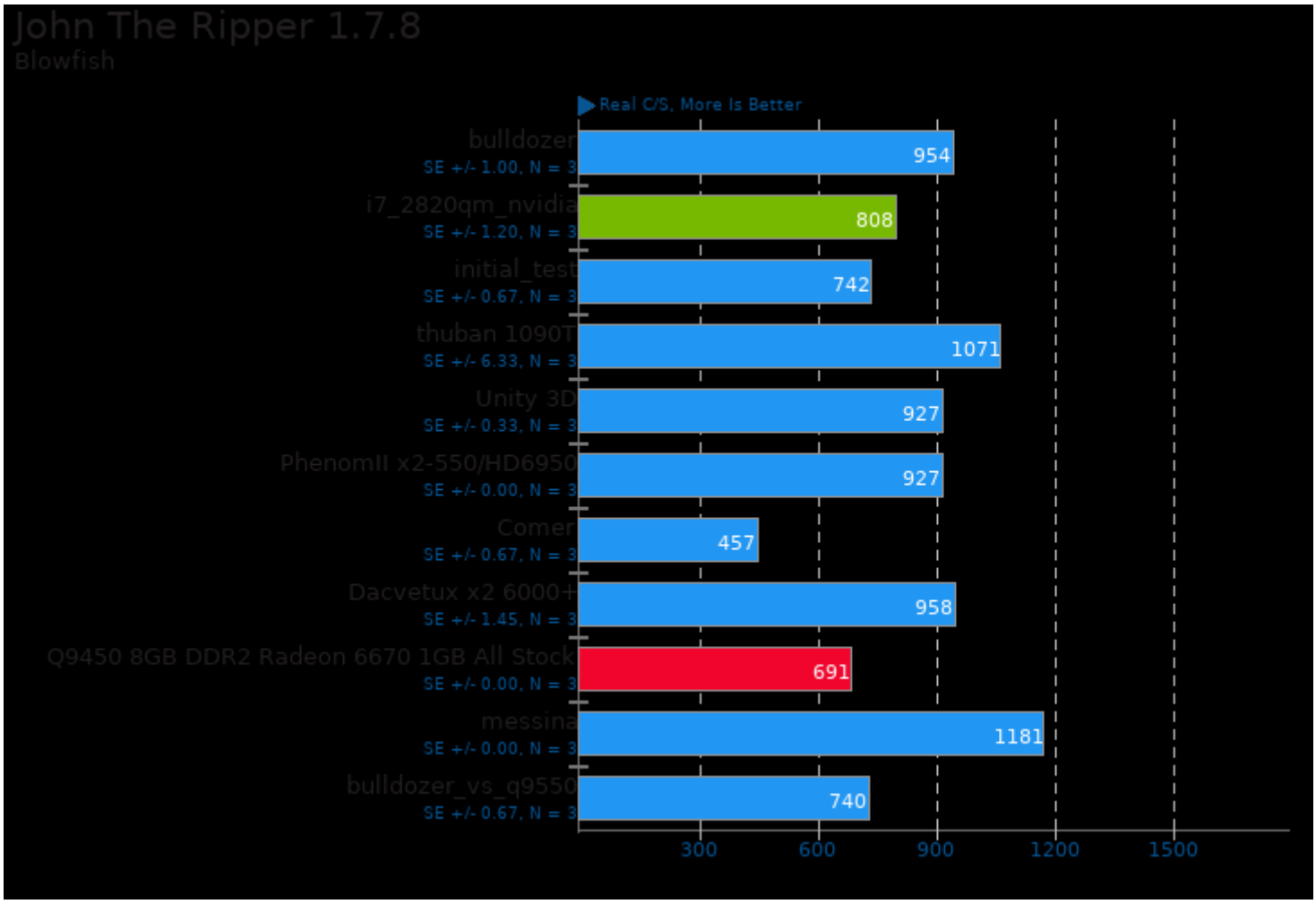
bulldozer


Himeno Benchmark 3.0
Poisson Pressure Solver
MFLOPS, More Is Better
bulldozer
SE +/- 0.33, N = 3
237.28
i7_2820qm_nvidia
SE +/- 1.89, N = 3
303.32
initial_test
SE +/- 0.11, N = 3
95.03
thuban 1090T
SE +/- 1.29, N = 3
194.09
Unity 3D
SE +/- 0.30, N = 3
170.32
PhenomII x2-550/HD6950
SE +/- 0.14, N = 3
171.77
Comer
SE +/- 0.34, N = 3
87.38
Dacvetux x2 6000+
SE +/- 0.54, N = 3
120.02
Q9450 8GB DDR2 Radeon 6670 1GB All Stock
SE +/- 0.08, N = 3
184.29
messina
SE +/- 2.12, N = 3
498.71
110
220
330
440
550

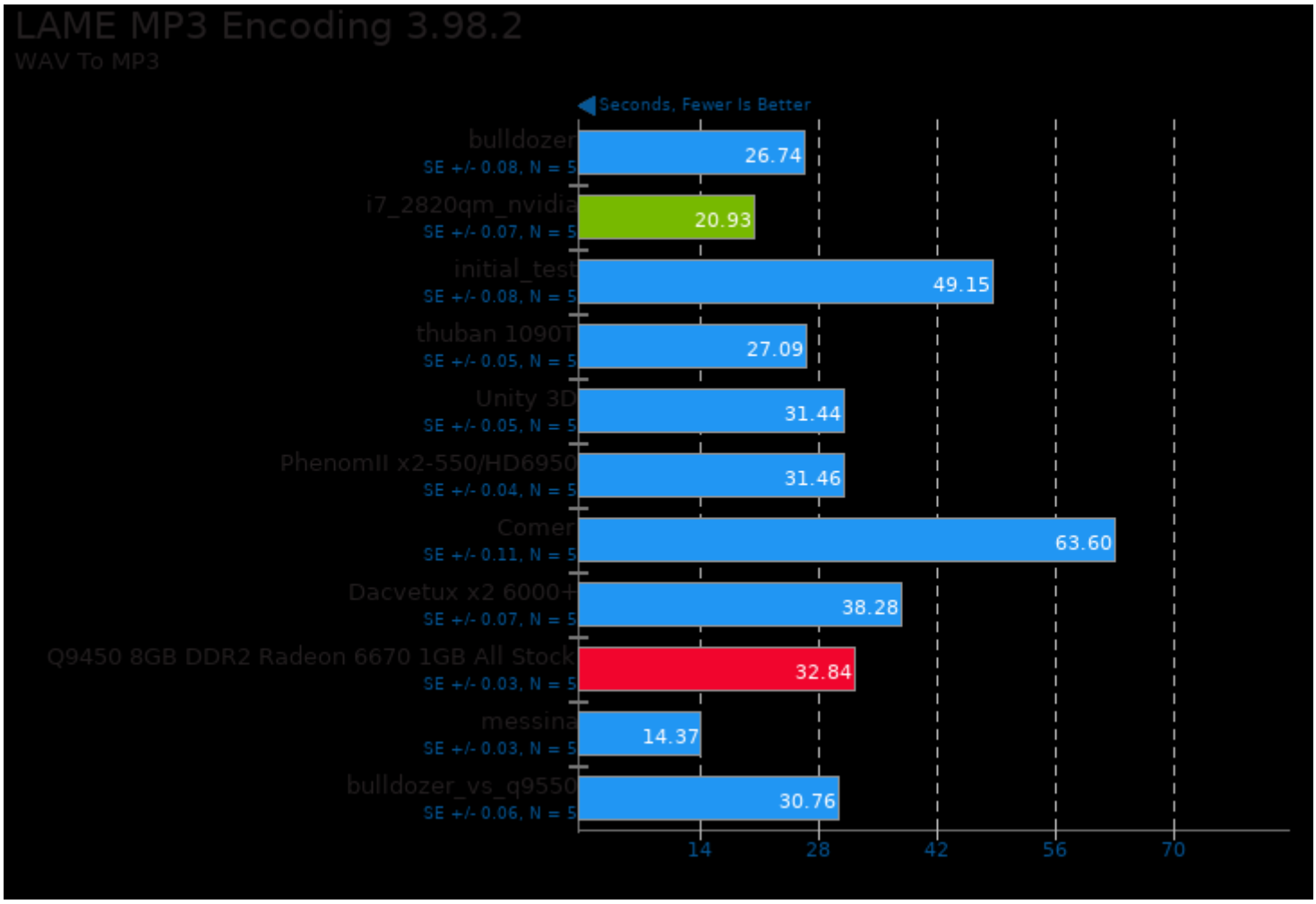
bulldozer


John The Ripper 1.7.8
Traditional DES
Real C/S, More Is Better
bulldozer
SE +/- 17616.28, N = 3
3918000
i7_2820qm_nvidia
SE +/- 27646.58, N = 3
4221000
initial_test
SE +/- 4725.82, N = 3
1159000
thuban 1090T
SE +/- 16563.01, N = 3
2650000
Unity 3D
SE +/- 6064.47, N = 3
2278333
PhenomII x2-550/HD6950
SE +/- 881.92, N = 3
2294333
Comer
SE +/- 4333.33, N = 3
1126667
Dacvetux x2 6000+
SE +/- 1855.92, N = 3
1511333
Q9450 8GB DDR2 Radeon 6670 1GB All Stock
SE +/- 16343.53, N = 3
2836667
messina
SE +/- 14723.38, N = 3
6201333
bulldozer_vs_q9550
SE +/- 47971.13, N = 4
2957750
1.3M
2.6M
3.9M
5.2M
6.5M

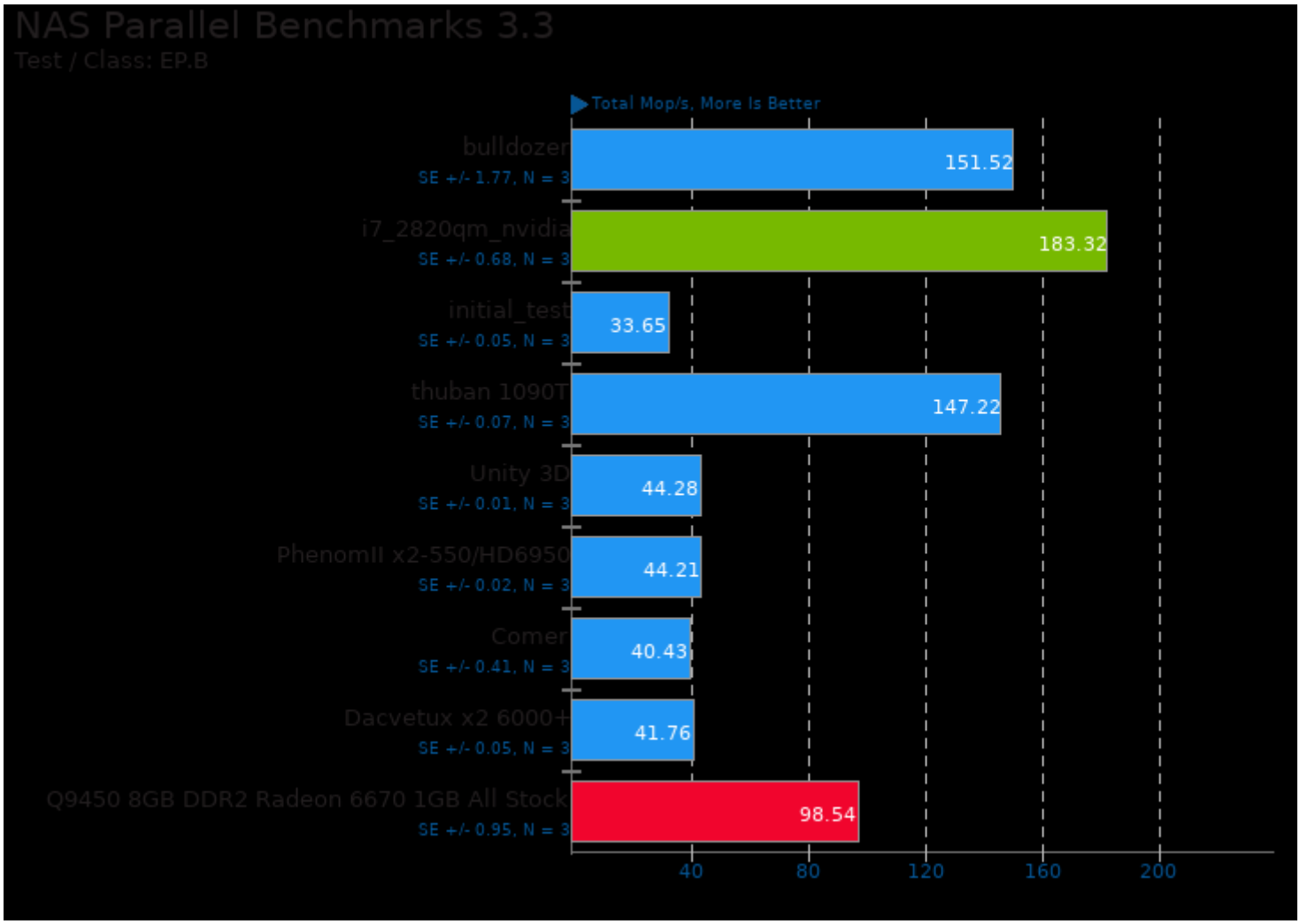
bulldozer


John The Ripper 1.7.8
Blowfish
Real C/S, More Is Better
bulldozer
SE +/- 1.00, N = 3
954
i7_2820qm_nvidia
SE +/- 1.20, N = 3
808
initial_test
SE +/- 0.67, N = 3
742
thuban 1090T
SE +/- 6.33, N = 3
1071
Unity 3D
SE +/- 0.33, N = 3
927
PhenomII x2-550/HD6950
SE +/- 0.00, N = 3
927
Comer
SE +/- 0.67, N = 3
457
Dacvetux x2 6000+
SE +/- 1.45, N = 3
958
Q9450 8GB DDR2 Radeon 6670 1GB All Stock
SE +/- 0.00, N = 3
691
messina
SE +/- 0.00, N = 3
1181
bulldozer_vs_q9550
SE +/- 0.67, N = 3
740
300
600
900
1200
1500

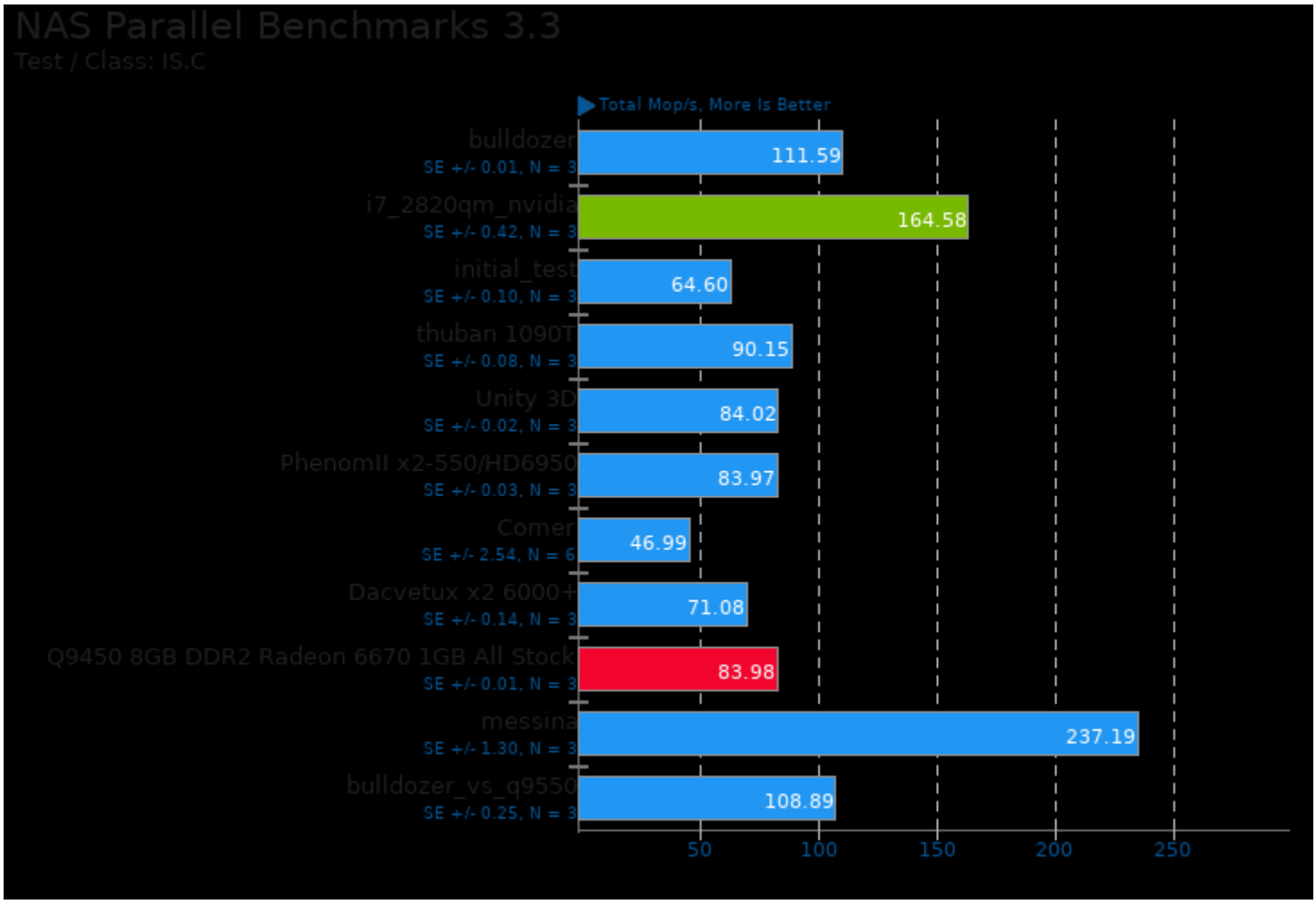
bulldozer


LAME MP3 Encoding 3.98.2
WAV To MP3
Seconds, Fewer Is Better
bulldozer
SE +/- 0.08, N = 5
26.74
i7_2820qm_nvidia
SE +/- 0.07, N = 5
20.93
initial_test
SE +/- 0.08, N = 5
49.15
thuban 1090T
SE +/- 0.05, N = 5
27.09
Unity 3D
SE +/- 0.05, N = 5
31.44
PhenomII x2-550/HD6950
SE +/- 0.04, N = 5
31.46
Comer
SE +/- 0.11, N = 5
63.60
Dacvetux x2 6000+
SE +/- 0.07, N = 5
38.28
Q9450 8GB DDR2 Radeon 6670 1GB All Stock
SE +/- 0.03, N = 5
32.84
messina
SE +/- 0.03, N = 5
14.37
bulldozer_vs_q9550
SE +/- 0.06, N = 5
30.76
14
28
42
56
70

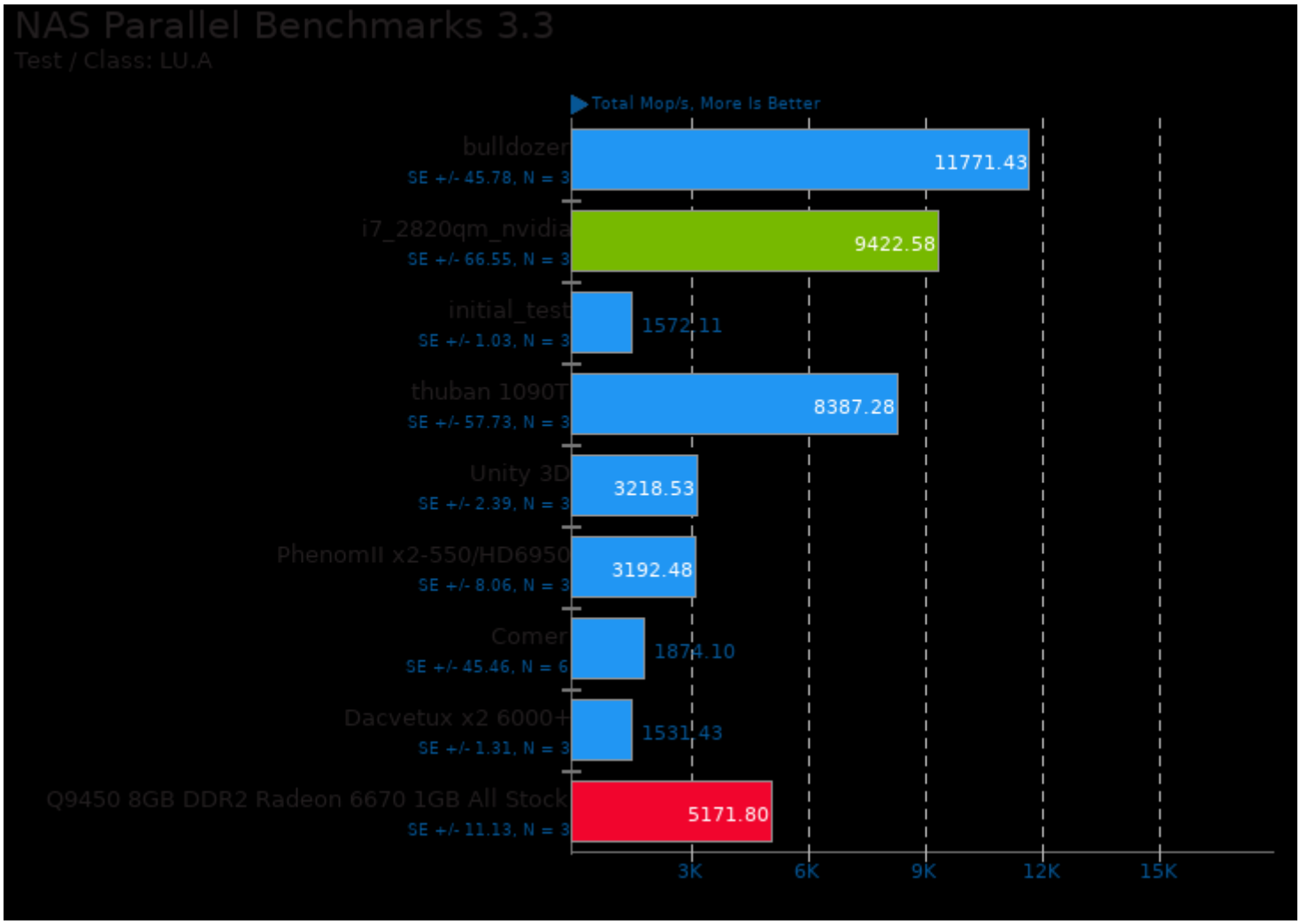
bulldozer


NAS Parallel Benchmarks 3.3
Test / Class: EP.B
Total Mop/s, More Is Better
bulldozer
SE +/- 1.77, N = 3
151.52
i7_2820qm_nvidia
SE +/- 0.68, N = 3
183.32
initial_test
SE +/- 0.05, N = 3
33.65
thuban 1090T
SE +/- 0.07, N = 3
147.22
Unity 3D
SE +/- 0.01, N = 3
44.28
PhenomII x2-550/HD6950
SE +/- 0.02, N = 3
44.21
Comer
SE +/- 0.41, N = 3
40.43
Dacvetux x2 6000+
SE +/- 0.05, N = 3
41.76
Q9450 8GB DDR2 Radeon 6670 1GB All Stock
SE +/- 0.95, N = 3
98.54
40
80
120
160
200

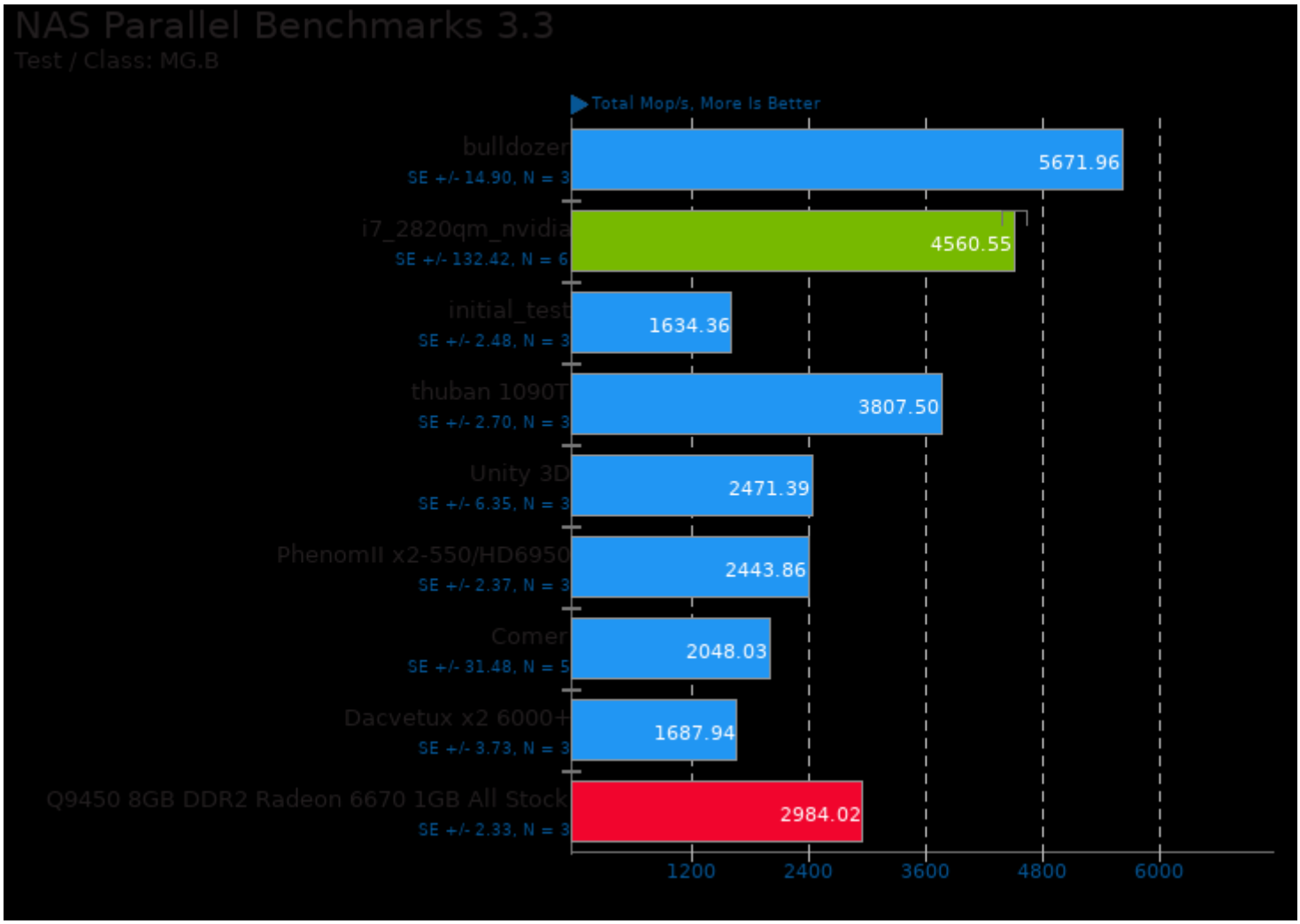
bulldozer


NAS Parallel Benchmarks 3.3
Test / Class: IS.C
Total Mop/s, More Is Better
bulldozer
SE +/- 0.01, N = 3
111.59
i7_2820qm_nvidia
SE +/- 0.42, N = 3
164.58
initial_test
SE +/- 0.10, N = 3
64.60
thuban 1090T
SE +/- 0.08, N = 3
90.15
Unity 3D
SE +/- 0.02, N = 3
84.02
PhenomII x2-550/HD6950
SE +/- 0.03, N = 3
83.97
Comer
SE +/- 2.54, N = 6
46.99
Dacvetux x2 6000+
SE +/- 0.14, N = 3
71.08
Q9450 8GB DDR2 Radeon 6670 1GB All Stock
SE +/- 0.01, N = 3
83.98
messina
SE +/- 1.30, N = 3
237.19
bulldozer_vs_q9550
SE +/- 0.25, N = 3
108.89
50
100
150
200
250

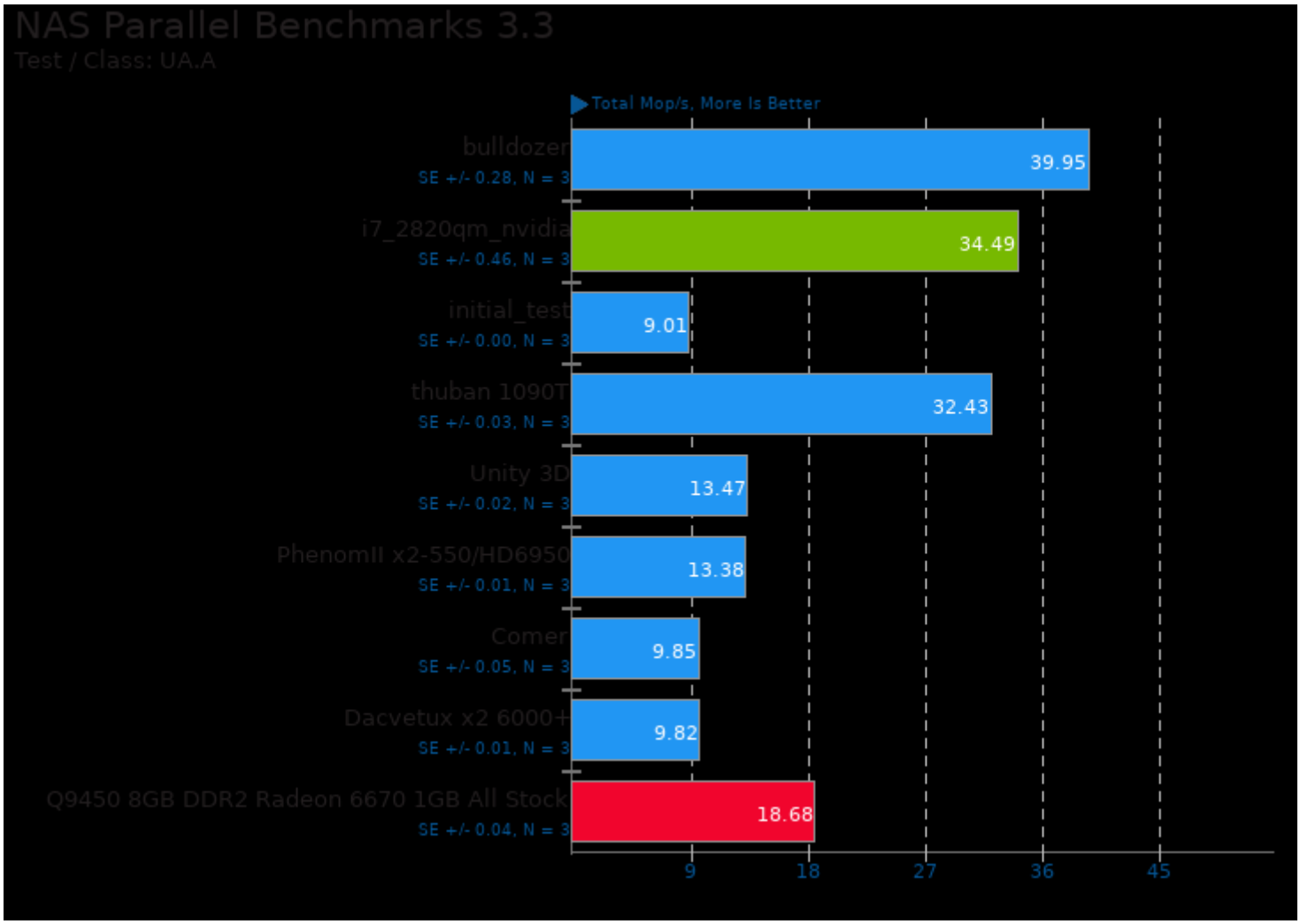
bulldozer


NAS Parallel Benchmarks 3.3
Test / Class: LU.A
Total Mop/s, More Is Better
bulldozer
SE +/- 45.78, N = 3
11771.43
i7_2820qm_nvidia
SE +/- 66.55, N = 3
9422.58
initial_test
SE +/- 1.03, N = 3
1572.11
thuban 1090T
SE +/- 57.73, N = 3
8387.28
Unity 3D
SE +/- 2.39, N = 3
3218.53
PhenomII x2-550/HD6950
SE +/- 8.06, N = 3
3192.48
Comer
SE +/- 45.46, N = 6
1874.10
Dacvetux x2 6000+
SE +/- 1.31, N = 3
1531.43
Q9450 8GB DDR2 Radeon 6670 1GB All Stock
SE +/- 11.13, N = 3
5171.80
3K
6K
9K
12K
15K

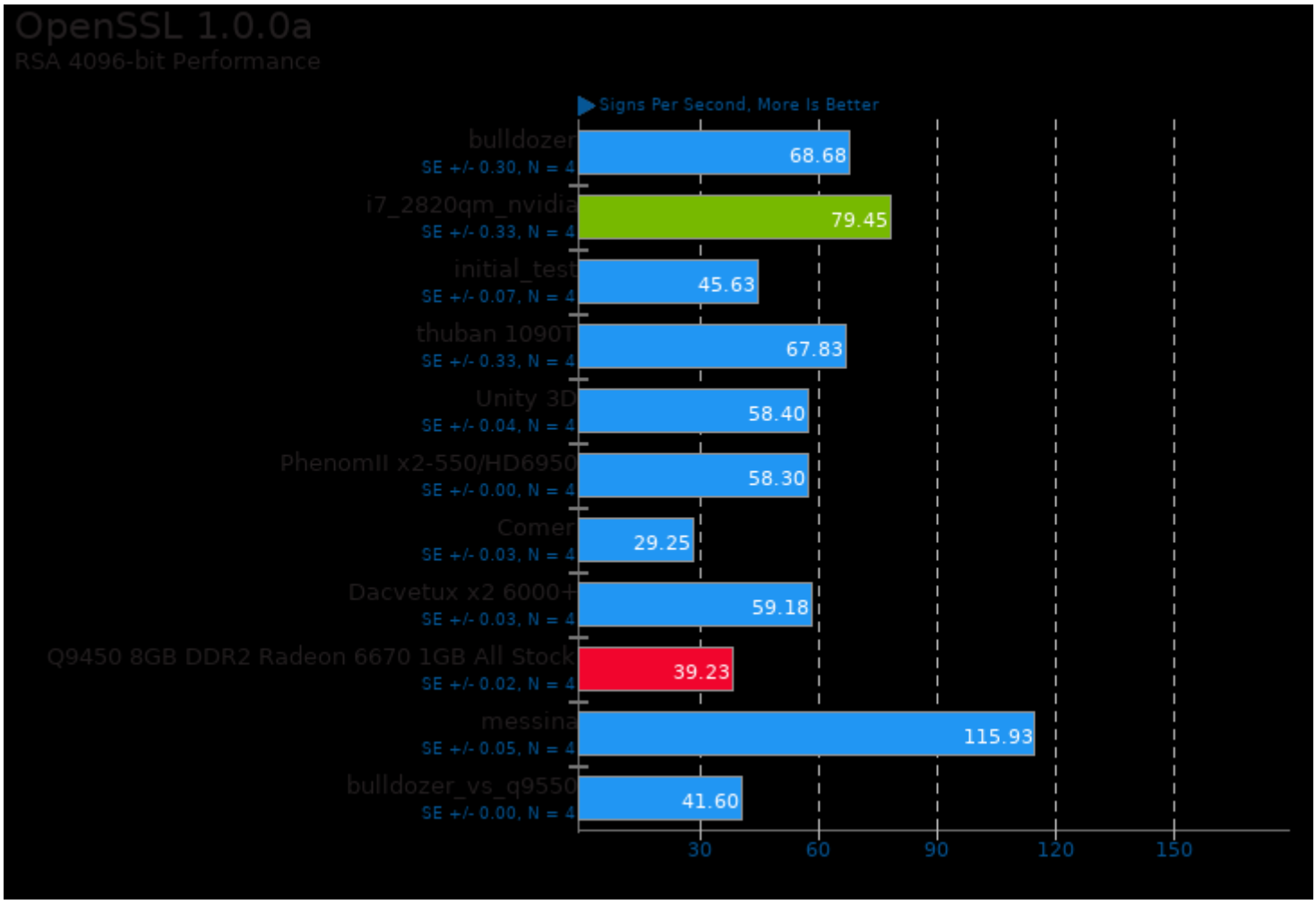
bulldozer


NAS Parallel Benchmarks 3.3
Test / Class: MG.B
Total Mop/s, More Is Better
bulldozer
SE +/- 14.90, N = 3
5671.96
i7_2820qm_nvidia
SE +/- 132.42, N = 6
4560.55
initial_test
SE +/- 2.48, N = 3
1634.36
thuban 1090T
SE +/- 2.70, N = 3
3807.50
Unity 3D
SE +/- 6.35, N = 3
2471.39
PhenomII x2-550/HD6950
SE +/- 2.37, N = 3
2443.86
Comer
SE +/- 31.48, N = 5
2048.03
Dacvetux x2 6000+
SE +/- 3.73, N = 3
1687.94
Q9450 8GB DDR2 Radeon 6670 1GB All Stock
SE +/- 2.33, N = 3
2984.02
1200
2400
3600
4800
6000

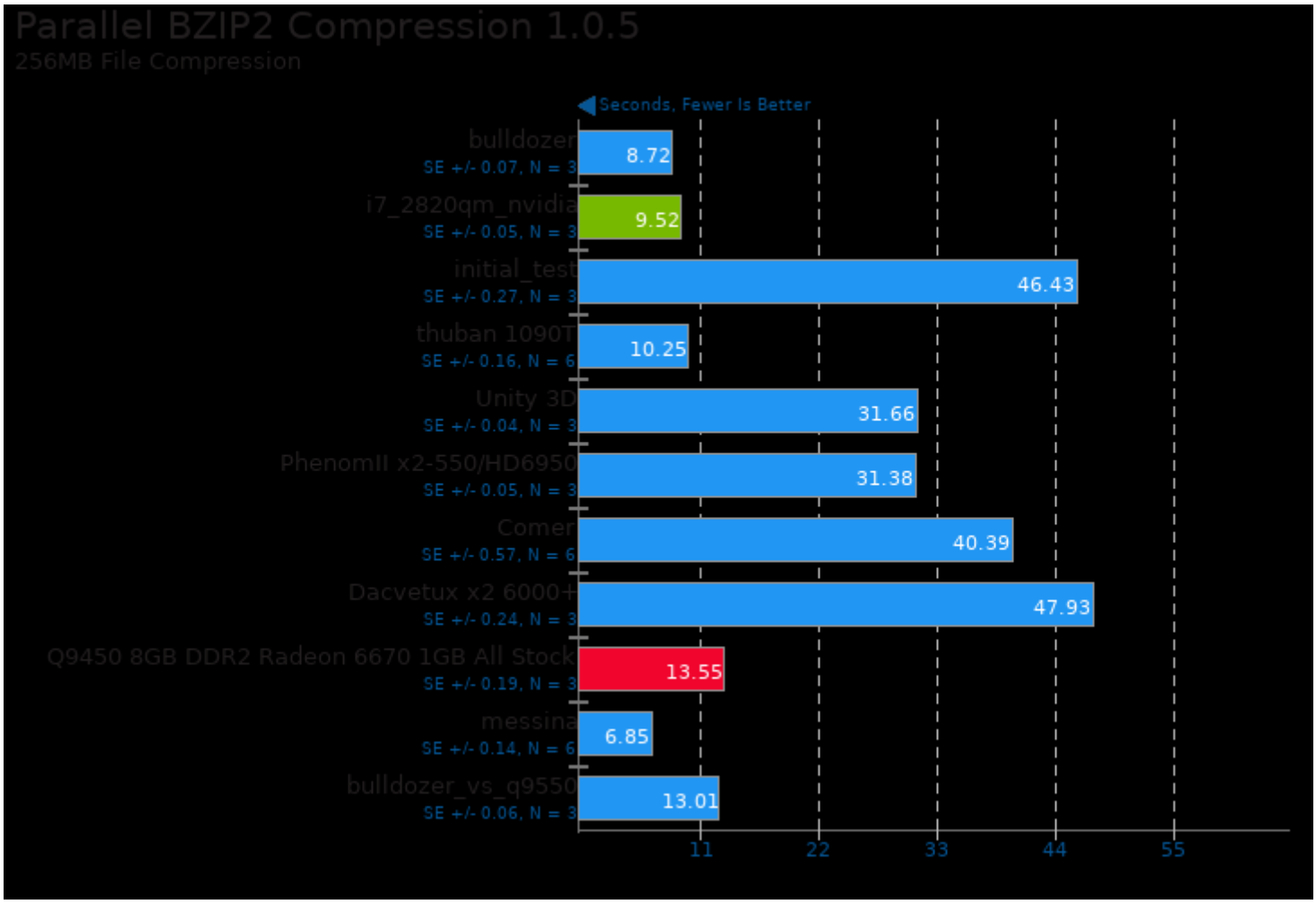
bulldozer


NAS Parallel Benchmarks 3.3
Test / Class: UA.A
Total Mop/s, More Is Better
bulldozer
SE +/- 0.28, N = 3
39.95
i7_2820qm_nvidia
SE +/- 0.46, N = 3
34.49
initial_test
SE +/- 0.00, N = 3
9.01
thuban 1090T
SE +/- 0.03, N = 3
32.43
Unity 3D
SE +/- 0.02, N = 3
13.47
PhenomII x2-550/HD6950
SE +/- 0.01, N = 3
13.38
Comer
SE +/- 0.05, N = 3
9.85
Dacvetux x2 6000+
SE +/- 0.01, N = 3
9.82
Q9450 8GB DDR2 Radeon 6670 1GB All Stock
SE +/- 0.04, N = 3
18.68
9
18
27
36
45

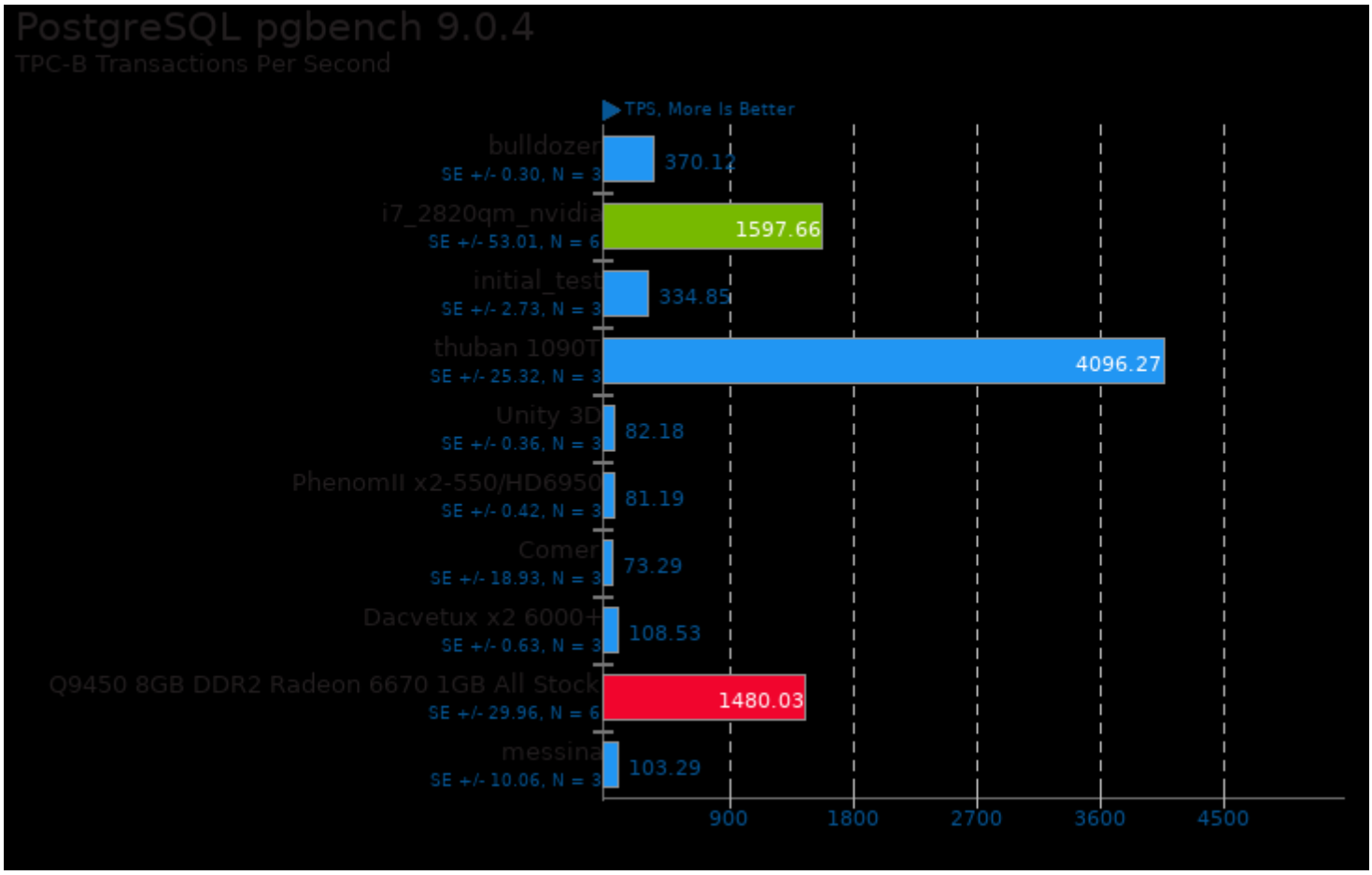
bulldozer


OpenSSL 1.0.0a
RSA 4096-bit Performance
Signs Per Second, More Is Better
bulldozer
SE +/- 0.30, N = 4
68.68
i7_2820qm_nvidia
SE +/- 0.33, N = 4
79.45
initial_test
SE +/- 0.07, N = 4
45.63
thuban 1090T
SE +/- 0.33, N = 4
67.83
Unity 3D
SE +/- 0.04, N = 4
58.40
PhenomII x2-550/HD6950
SE +/- 0.00, N = 4
58.30
Comer
SE +/- 0.03, N = 4
29.25
Dacvetux x2 6000+
SE +/- 0.03, N = 4
59.18
Q9450 8GB DDR2 Radeon 6670 1GB All Stock
SE +/- 0.02, N = 4
39.23
messina
SE +/- 0.05, N = 4
115.93
bulldozer_vs_q9550
SE +/- 0.00, N = 4
41.60
30
60
90
120
150

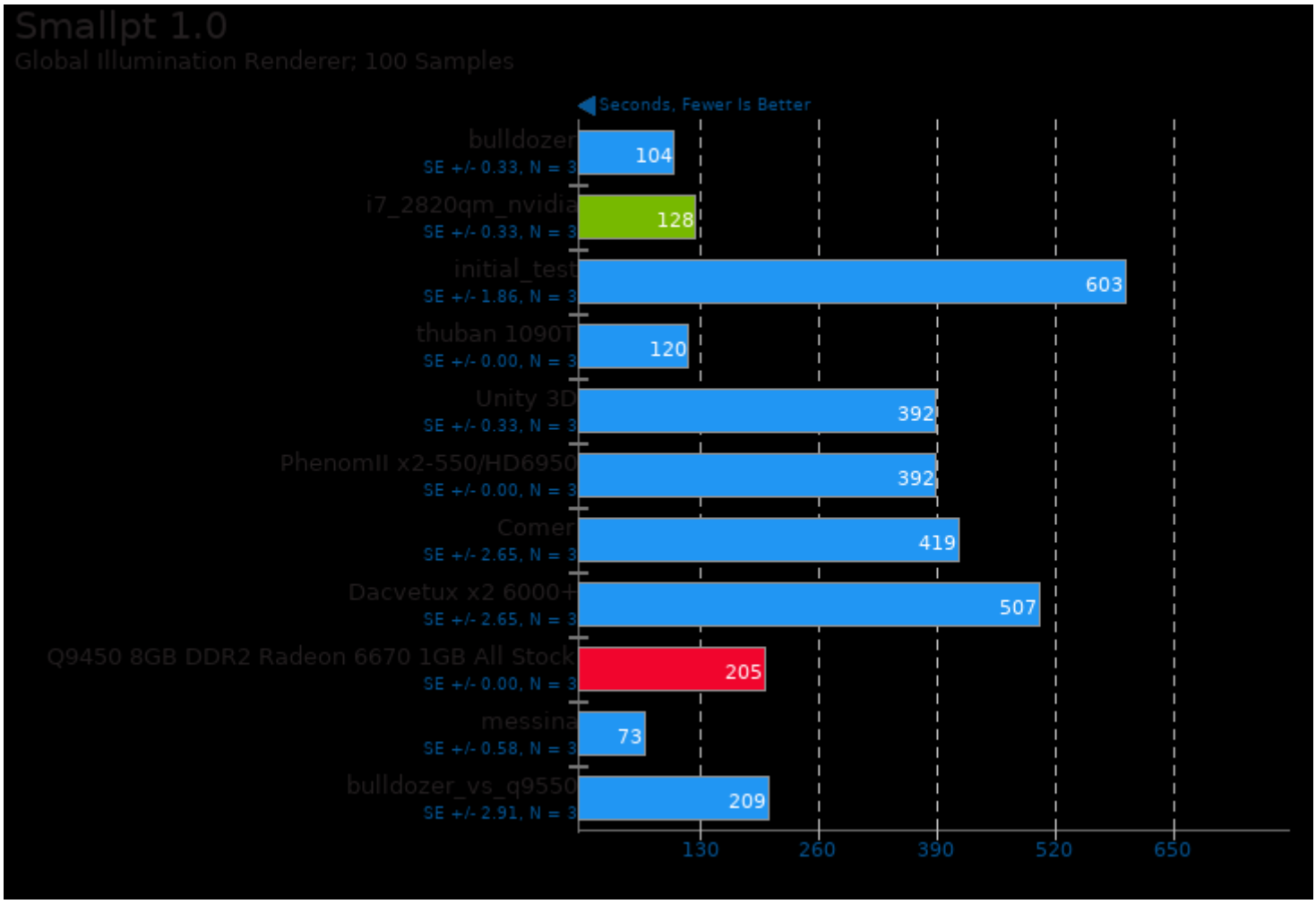
bulldozer


Parallel BZIP2 Compression 1.0.5
256MB File Compression
Seconds, Fewer Is Better
bulldozer
SE +/- 0.07, N = 3
8.72
i7_2820qm_nvidia
SE +/- 0.05, N = 3
9.52
initial_test
SE +/- 0.27, N = 3
46.43
thuban 1090T
SE +/- 0.16, N = 6
10.25
Unity 3D
SE +/- 0.04, N = 3
31.66
PhenomII x2-550/HD6950
SE +/- 0.05, N = 3
31.38
Comer
SE +/- 0.57, N = 6
40.39
Dacvetux x2 6000+
SE +/- 0.24, N = 3
47.93
Q9450 8GB DDR2 Radeon 6670 1GB All Stock
SE +/- 0.19, N = 3
13.55
messina
SE +/- 0.14, N = 6
6.85
bulldozer_vs_q9550
SE +/- 0.06, N = 3
13.01
11
22
33
44
55

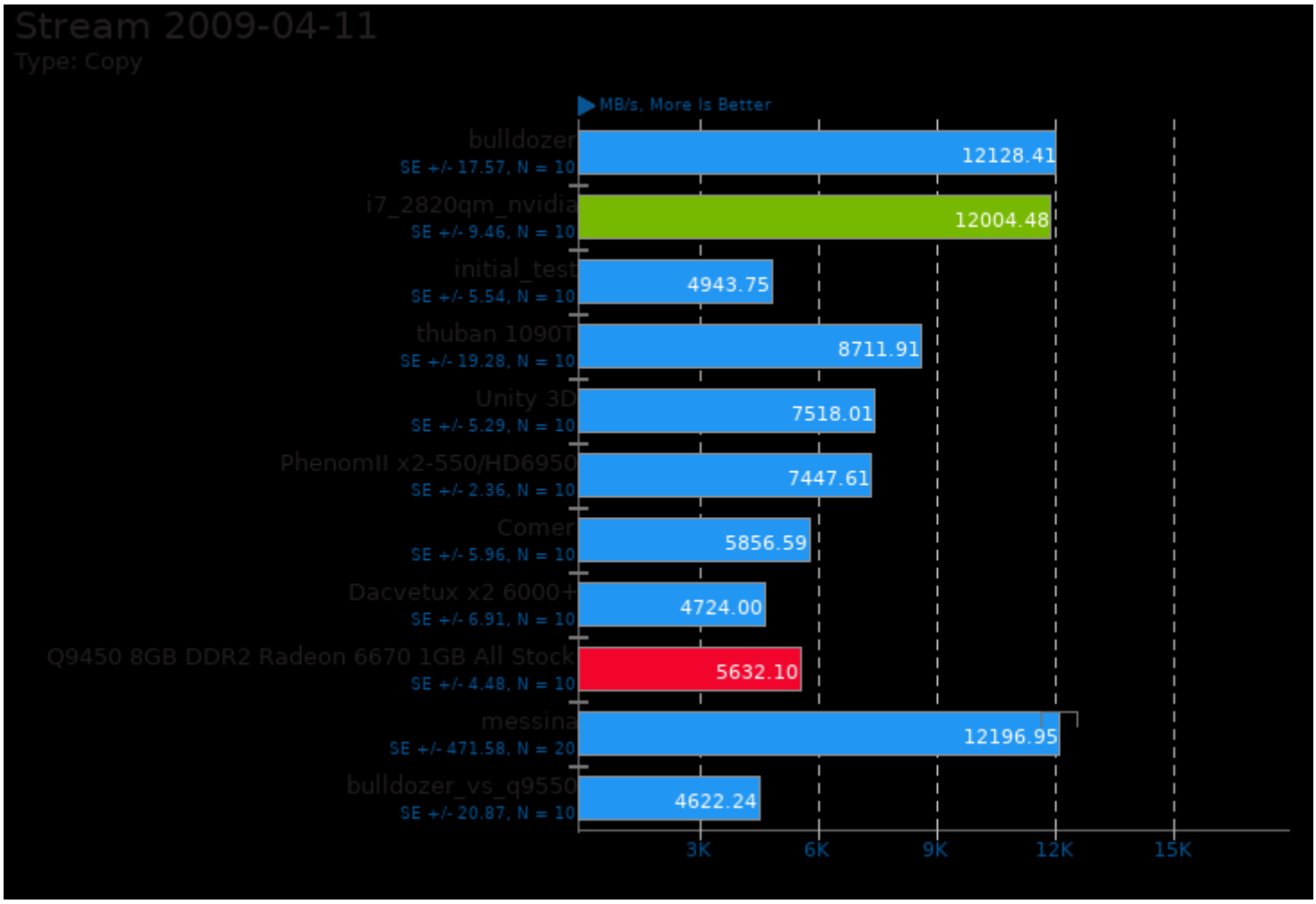
bulldozer


PostgreSQL pgbench 9.0.4
TPC-B Transactions Per Second
TPS, More Is Better
bulldozer
SE +/- 0.30, N = 3
370.12
i7_2820qm_nvidia
SE +/- 53.01, N = 6
1597.66
initial_test
SE +/- 2.73, N = 3
334.85
thuban 1090T
SE +/- 25.32, N = 3
4096.27
Unity 3D
SE +/- 0.36, N = 3
82.18
PhenomII x2-550/HD6950
SE +/- 0.42, N = 3
81.19
Comer
SE +/- 18.93, N = 3
73.29
Dacvetux x2 6000+
SE +/- 0.63, N = 3
108.53
Q9450 8GB DDR2 Radeon 6670 1GB All Stock
SE +/- 29.96, N = 6
1480.03
messina
SE +/- 10.06, N = 3
103.29
900
1800
2700
3600
4500

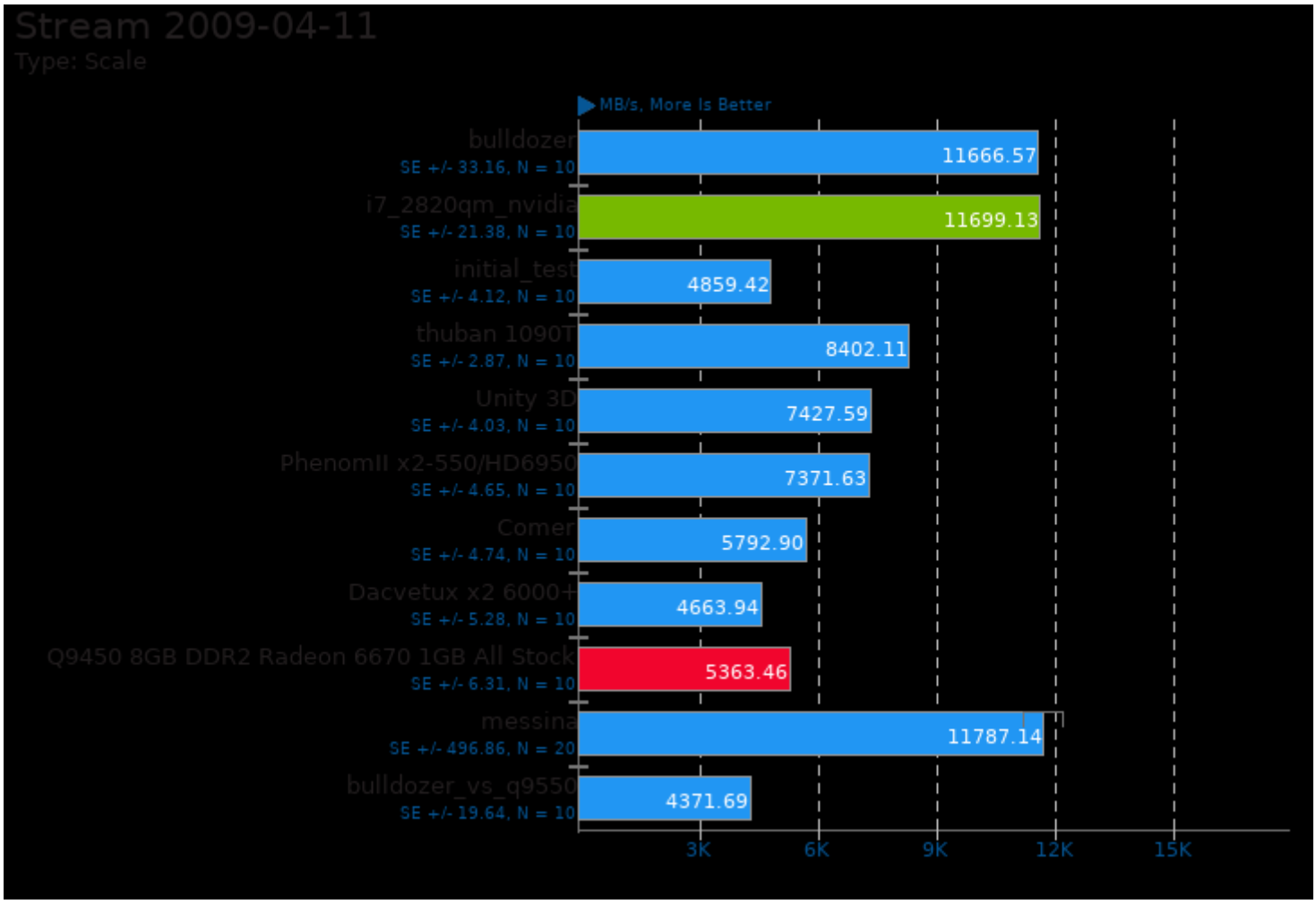
bulldozer


Smallpt 1.0
Global Illumination Renderer; 100 Samples
Seconds, Fewer Is Better
bulldozer
SE +/- 0.33, N = 3
104
i7_2820qm_nvidia
SE +/- 0.33, N = 3
128
initial_test
SE +/- 1.86, N = 3
603
thuban 1090T
SE +/- 0.00, N = 3
120
Unity 3D
SE +/- 0.33, N = 3
392
PhenomII x2-550/HD6950
SE +/- 0.00, N = 3
392
Comer
SE +/- 2.65, N = 3
419
Dacvetux x2 6000+
SE +/- 2.65, N = 3
507
Q9450 8GB DDR2 Radeon 6670 1GB All Stock
SE +/- 0.00, N = 3
205
messina
SE +/- 0.58, N = 3
73
bulldozer_vs_q9550
SE +/- 2.91, N = 3
209
130
260
390
520
650

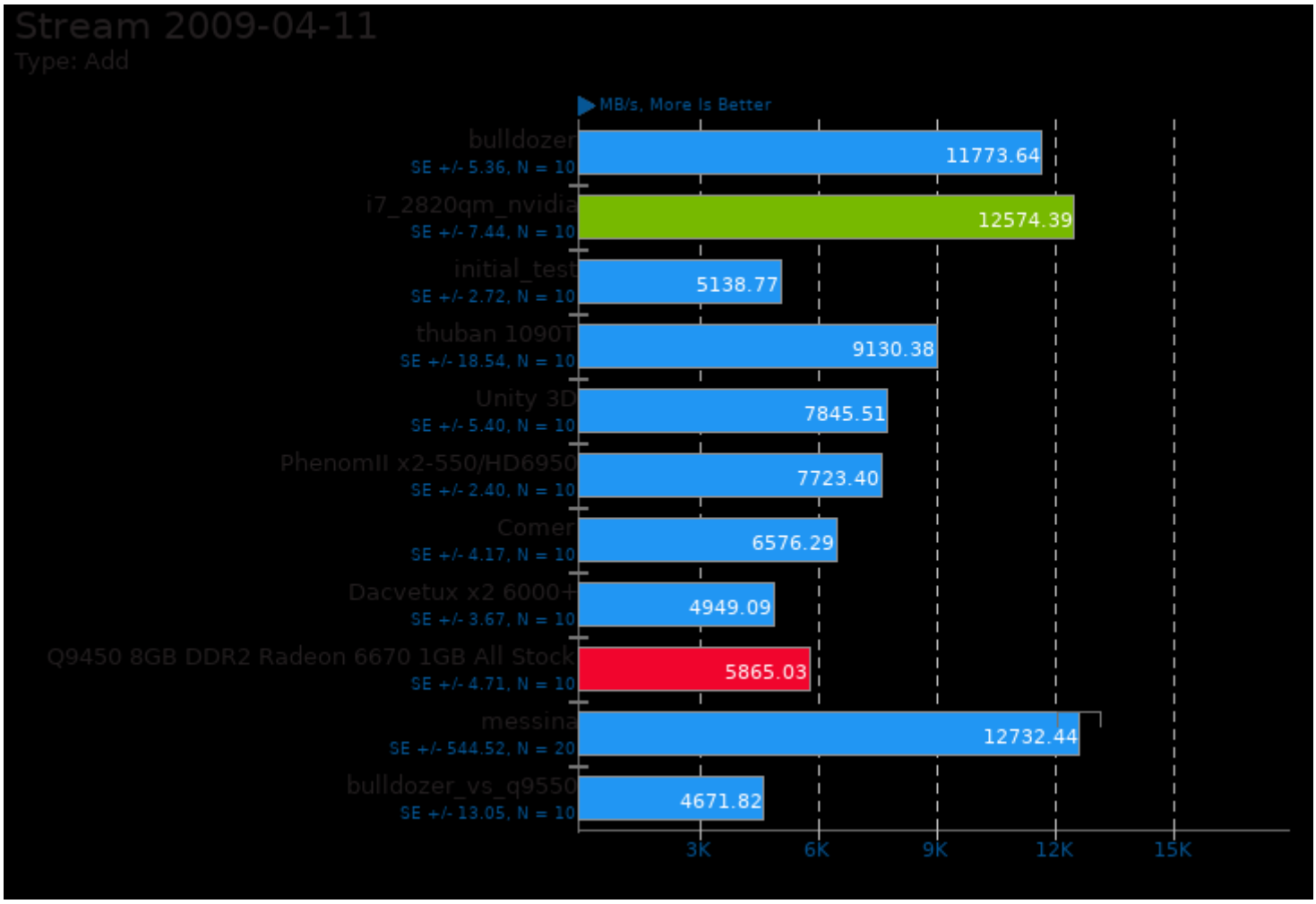
bulldozer


Stream 2009-04-11
Type: Copy
MB/s, More Is Better
bulldozer
SE +/- 17.57, N = 10
12128.41
i7_2820qm_nvidia
SE +/- 9.46, N = 10
12004.48
initial_test
SE +/- 5.54, N = 10
4943.75
thuban 1090T
SE +/- 19.28, N = 10
8711.91
Unity 3D
SE +/- 5.29, N = 10
7518.01
PhenomII x2-550/HD6950
SE +/- 2.36, N = 10
7447.61
Comer
SE +/- 5.96, N = 10
5856.59
Dacvetux x2 6000+
SE +/- 6.91, N = 10
4724.00
Q9450 8GB DDR2 Radeon 6670 1GB All Stock
SE +/- 4.48, N = 10
5632.10
messina
SE +/- 471.58, N = 20
12196.95
bulldozer_vs_q9550
SE +/- 20.87, N = 10
4622.24
3K
6K
9K
12K
15K

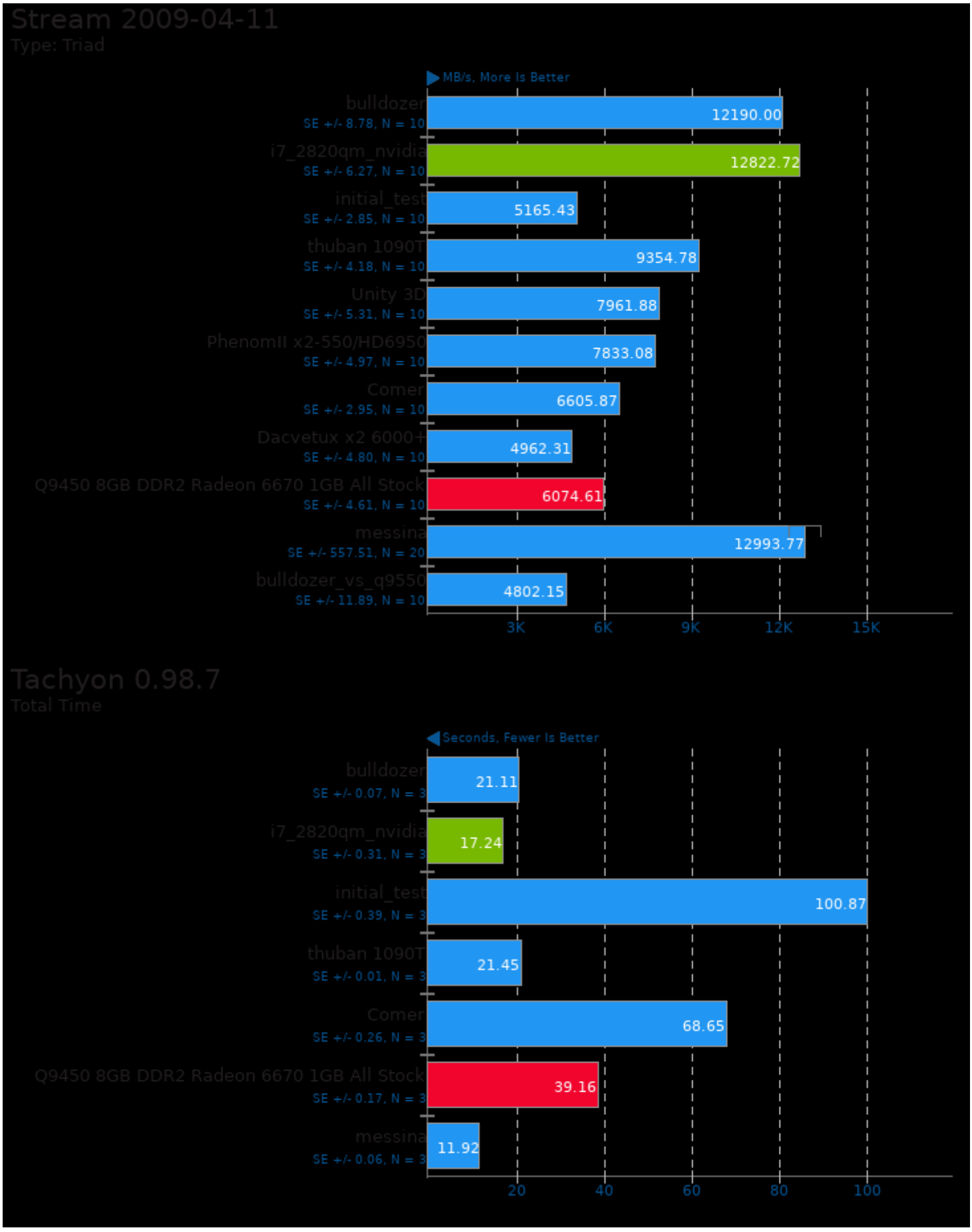
bulldozer


Stream 2009-04-11
Type: Scale
MB/s, More Is Better
bulldozer
SE +/- 33.16, N = 10
11666.57
i7_2820qm_nvidia
SE +/- 21.38, N = 10
11699.13
initial_test
SE +/- 4.12, N = 10
4859.42
thuban 1090T
SE +/- 2.87, N = 10
8402.11
Unity 3D
SE +/- 4.03, N = 10
7427.59
PhenomII x2-550/HD6950
SE +/- 4.65, N = 10
7371.63
Comer
SE +/- 4.74, N = 10
5792.90
Dacvetux x2 6000+
SE +/- 5.28, N = 10
4663.94
Q9450 8GB DDR2 Radeon 6670 1GB All Stock
SE +/- 6.31, N = 10
5363.46
messina
SE +/- 496.86, N = 20
11787.14
bulldozer_vs_q9550
SE +/- 19.64, N = 10
4371.69
3K
6K
9K
12K
15K

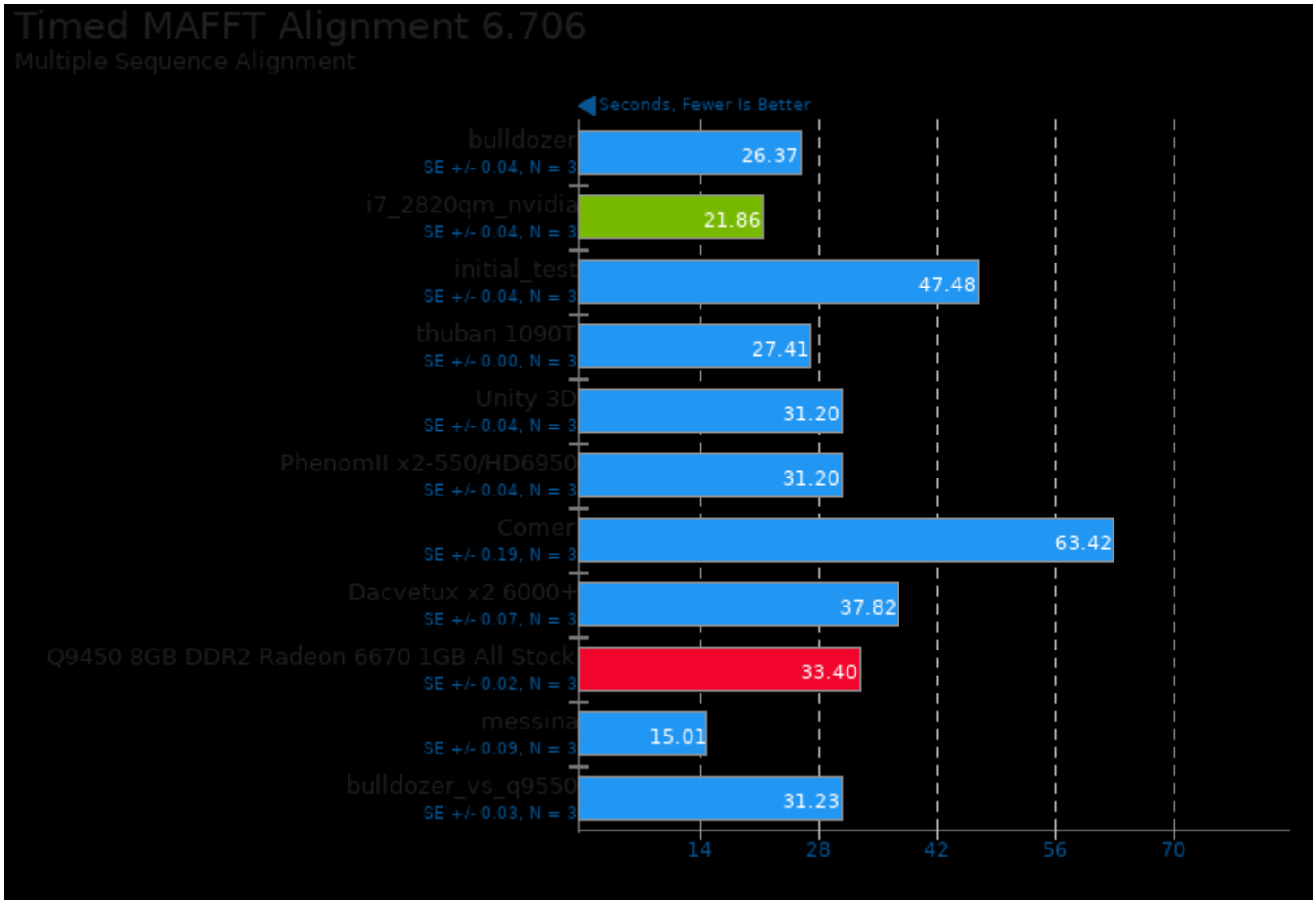
bulldozer


Stream 2009-04-11
Type: Add
MB/s, More Is Better
bulldozer
SE +/- 5.36, N = 10
11773.64
i7_2820qm_nvidia
SE +/- 7.44, N = 10
12574.39
initial_test
SE +/- 2.72, N = 10
5138.77
thuban 1090T
SE +/- 18.54, N = 10
9130.38
Unity 3D
SE +/- 5.40, N = 10
7845.51
PhenomII x2-550/HD6950
SE +/- 2.40, N = 10
7723.40
Comer
SE +/- 4.17, N = 10
6576.29
Dacvetux x2 6000+
SE +/- 3.67, N = 10
4949.09
Q9450 8GB DDR2 Radeon 6670 1GB All Stock
SE +/- 4.71, N = 10
5865.03
messina
SE +/- 544.52, N = 20
12732.44
bulldozer_vs_q9550
SE +/- 13.05, N = 10
4671.82
3K
6K
9K
12K
15K

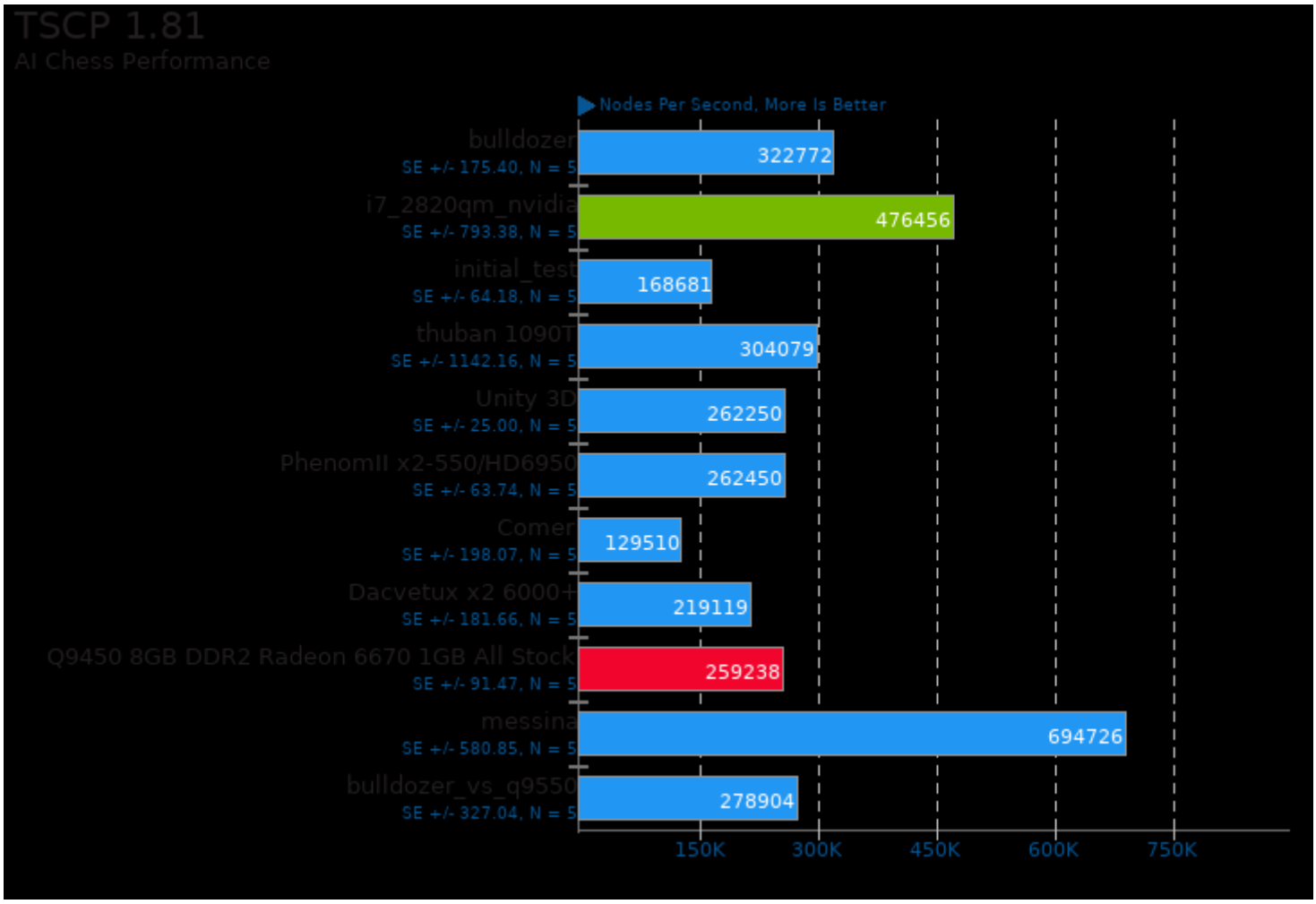
bulldozer


Stream 2009-04-11
Type: Triad
MB/s, More Is Better
bulldozer
SE +/- 8.78, N = 10
12190.00
i7_2820qm_nvidia
SE +/- 6.27, N = 10
12822.72
initial_test
SE +/- 2.85, N = 10
5165.43
thuban 1090T
SE +/- 4.18, N = 10
9354.78
Unity 3D
SE +/- 5.31, N = 10
7961.88
PhenomII x2-550/HD6950
SE +/- 4.97, N = 10
7833.08
Comer
SE +/- 2.95, N = 10
6605.87
Dacvetux x2 6000+
SE +/- 4.80, N = 10
4962.31
Q9450 8GB DDR2 Radeon 6670 1GB All Stock
SE +/- 4.61, N = 10
6074.61
messina
SE +/- 557.51, N = 20
12993.77
bulldozer_vs_q9550
SE +/- 11.89, N = 10
4802.15
3K
6K
9K
12K
15K
Tachyon 0.98.7
Total Time
Seconds, Fewer Is Better
bulldozer
SE +/- 0.07, N = 3
21.11
i7_2820qm_nvidia
SE +/- 0.31, N = 3
17.24
initial_test
SE +/- 0.39, N = 3
100.87
thuban 1090T
SE +/- 0.01, N = 3
21.45
Comer
SE +/- 0.26, N = 3
68.65
Q9450 8GB DDR2 Radeon 6670 1GB All Stock
SE +/- 0.17, N = 3
39.16
messina
SE +/- 0.06, N = 3
11.92
20
40
60
80
100

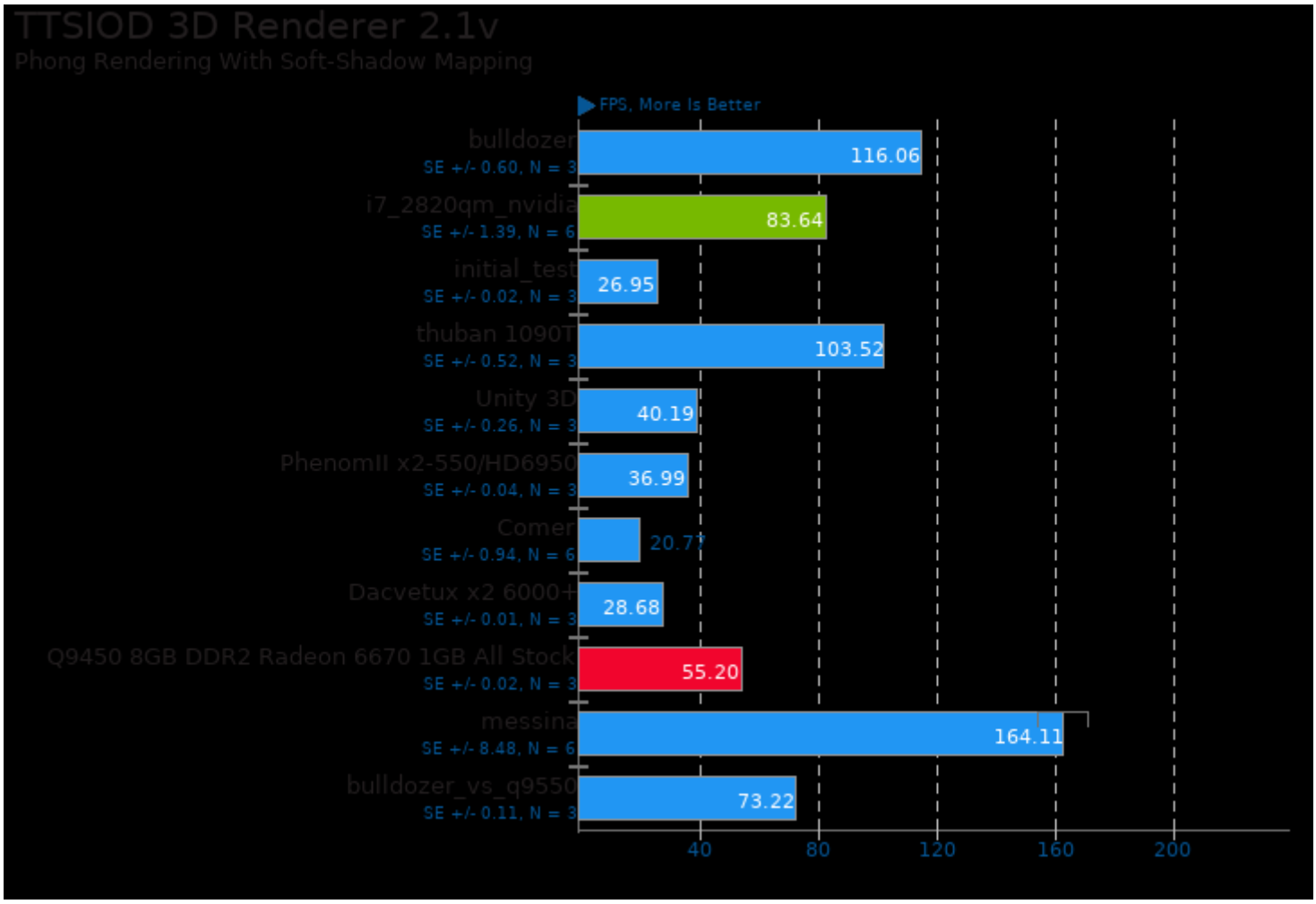
bulldozer


Timed MAFFT Alignment 6.706
Multiple Sequence Alignment
Seconds, Fewer Is Better
bulldozer
SE +/- 0.04, N = 3
26.37
i7_2820qm_nvidia
SE +/- 0.04, N = 3
21.86
initial_test
SE +/- 0.04, N = 3
47.48
thuban 1090T
SE +/- 0.00, N = 3
27.41
Unity 3D
SE +/- 0.04, N = 3
31.20
PhenomII x2-550/HD6950
SE +/- 0.04, N = 3
31.20
Comer
SE +/- 0.19, N = 3
63.42
Dacvetux x2 6000+
SE +/- 0.07, N = 3
37.82
Q9450 8GB DDR2 Radeon 6670 1GB All Stock
SE +/- 0.02, N = 3
33.40
messina
SE +/- 0.09, N = 3
15.01
bulldozer_vs_q9550
SE +/- 0.03, N = 3
31.23
14
28
42
56
70

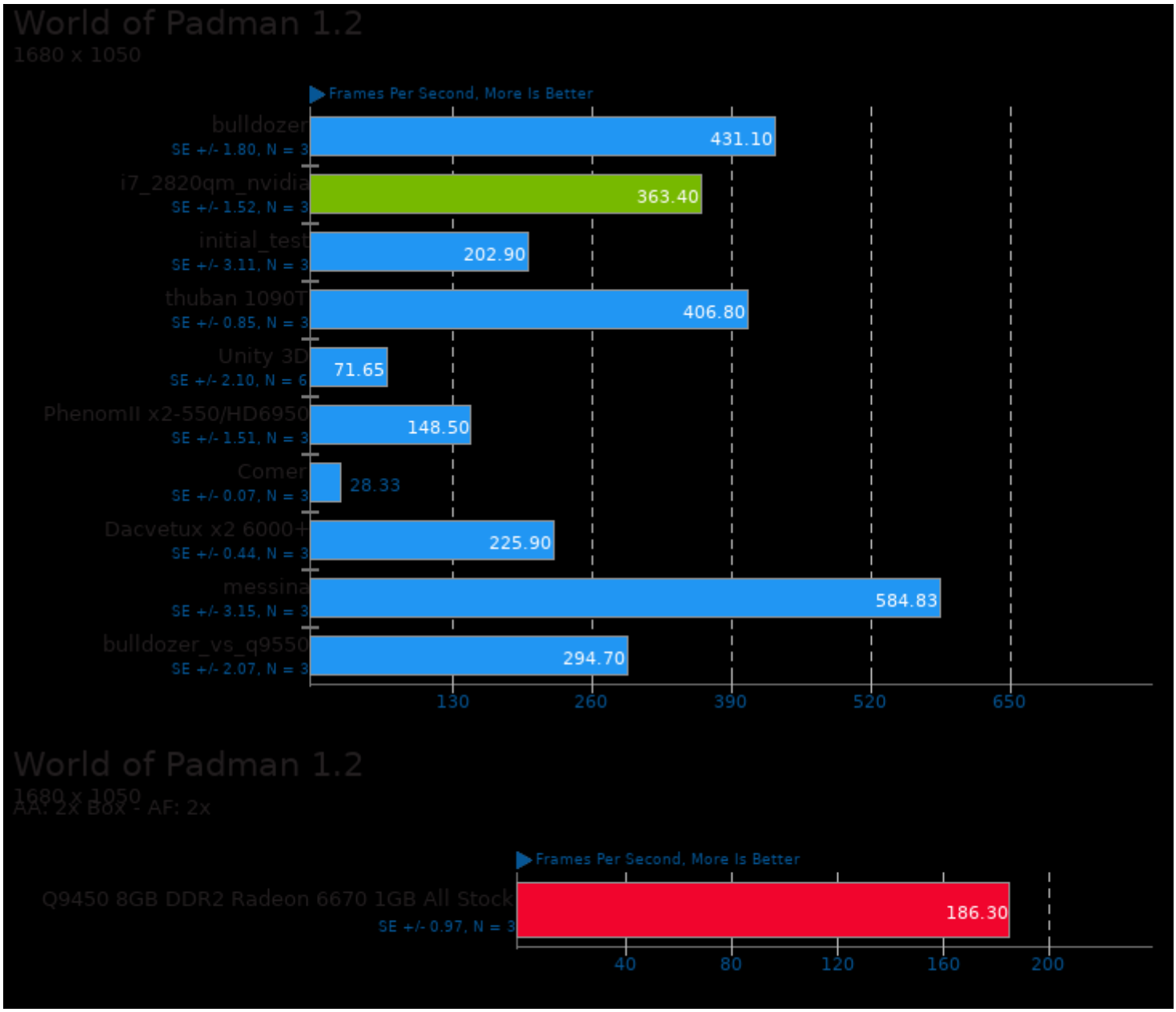
bulldozer


TSCP 1.81
AI Chess Performance
Nodes Per Second, More Is Better
bulldozer
SE +/- 175.40, N = 5
322772
i7_2820qm_nvidia
SE +/- 793.38, N = 5
476456
initial_test
SE +/- 64.18, N = 5
168681
thuban 1090T
SE +/- 1142.16, N = 5
304079
Unity 3D
SE +/- 25.00, N = 5
262250
PhenomII x2-550/HD6950
SE +/- 63.74, N = 5
262450
Comer
SE +/- 198.07, N = 5
129510
Dacvetux x2 6000+
SE +/- 181.66, N = 5
219119
Q9450 8GB DDR2 Radeon 6670 1GB All Stock
SE +/- 91.47, N = 5
259238
messina
SE +/- 580.85, N = 5
694726
bulldozer_vs_q9550
SE +/- 327.04, N = 5
278904
150K
300K
450K
600K
750K

bulldozer


TTSIOD 3D Renderer 2.1v
Phong Rendering With Soft-Shadow Mapping
FPS, More Is Better
bulldozer
SE +/- 0.60, N = 3
116.06
i7_2820qm_nvidia
SE +/- 1.39, N = 6
83.64
initial_test
SE +/- 0.02, N = 3
26.95
thuban 1090T
SE +/- 0.52, N = 3
103.52
Unity 3D
SE +/- 0.26, N = 3
40.19
PhenomII x2-550/HD6950
SE +/- 0.04, N = 3
36.99
Comer
SE +/- 0.94, N = 6
20.7
Dacvetux x2 6000+
SE +/- 0.01, N = 3
28.68
Q9450 8GB DDR2 Radeon 6670 1GB All Stock
SE +/- 0.02, N = 3
55.20
messina
SE +/- 8.48, N = 6
164.11
bulldozer_vs_q9550
SE +/- 0.11, N = 3
73.22
40
80
120
160
200

bulldozer



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