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gputest_

AMD Phenom II X4 945 testing with a ASRock N68-S3 UCC (P1.50 BIOS) and NVIDIA GeForce GT 610 1GB on Slackware 14.2 x86_64 via the Phoronix Test Suite.

Automated Executive Summary

18nov had the most wins, coming in first place for 80% of the tests.

Test Systems:

NVIDIA GeForce 7025

Processor: AMD Athlon II X2 220 @ 2.80GHz (2 Cores), Motherboard: ASRock N68-S3 UCC (P1.50 BIOS), Chipset: NVIDIA MCP61, Memory: 4096MB, Disk: 120GB ADATA SU650, Graphics: NVIDIA GeForce 7025 / nForce 630a/ /SSE2 512MB (425/800MHz), Audio: Creative Labs SB Live! EMU10k1, Monitor: NEC LCD73VM

OS: Slackware 14.2, Kernel: 4.4.38 (x86_64), Desktop: KDE, Display Server: X Server 1.18.3, Display Driver: NVIDIA 304.135, OpenGL: 2.1.2 NVIDIA 304.135, Compiler: GCC 5.3.0 + Clang 3.8.0 + LLVM 3.8.0, File-System: ext4, Screen

Resolution: 1280x1024

Processor Notes: Scaling Governor: acpi-cpufreq ondemand

may19

Processor: AMD Athlon II X2 220 @ 2.80GHz (2 Cores), Motherboard: ASRock N68-S3 UCC (P1.50 BIOS), Chipset: NVIDIA MCP61, Memory: 4096MB, Disk: 120GB ADATA SU650 + 80GB Hitachi HDS72168, Graphics: NVIDIA GeForce 7025 / nForce 630a/ /SSE2 512MB (425/800MHz), Audio: Creative Labs SB Live! EMU10k1, Monitor: NEC LCD73VM

OS: Slackware 14.2, Kernel: 4.4.38 (x86_64), Desktop: KDE, Display Server: X Server 1.18.3, Display Driver: NVIDIA 304.135, OpenGL: 2.1.2 NVIDIA 304.135, Compiler: GCC 5.3.0 + Clang 3.8.0 + LLVM 3.8.0, File-System: ext4, Screen Resolution: 1280x1024

Processor Notes: Scaling Governor: acpi-cpufreq ondemand

may19_1

Processor: AMD Athlon II X2 220 @ 2.80GHz (2 Cores), Motherboard: ASRock N68-S3 UCC (P1.50 BIOS), Chipset: NVIDIA MCP61, Memory: 4096MB, Disk: 120GB ADATA SU650 + 80GB Hitachi HDS72168, Graphics: NVIDIA GeForce 7025 / nForce 630a/ /SSE2 512MB, Audio: Creative Labs SB Live! EMU10k1, Monitor: NEC LCD73VM

OS: Slackware 14.2, Kernel: 4.4.38 (x86_64), Desktop: KDE, Display Server: X Server 1.18.3, Display Driver: NVIDIA 304.135, Compiler: GCC 5.3.0 + Clang 3.8.0 + LLVM 3.8.0, File-System: ext4, Screen Resolution: 1280x1024

Processor Notes: Scaling Governor: acpi-cpufreq ondemand

GTX750k

Processor: AMD Athlon II X2 220 @ 2.80GHz (2 Cores), Motherboard: ASRock N68-S3 UCC (P1.50 BIOS), Chipset: NVIDIA MCP61, Memory: 4096MB, Disk: 120GB ADATA SU650, Graphics: NVIDIA GeForce GTX 570 1280MB (732/1900MHz), Audio: Creative Labs SB Live! EMU10k1

OS: Slackware 14.2, Kernel: 4.4.38 (x86_64), Desktop: KDE, Display Server: X Server 1.18.3, Display Driver: NVIDIA 390.116, OpenGL: 4.5.0, Compiler: GCC 5.3.0 + Clang 3.8.0 + LLVM 3.8.0, File-System: ext4, Screen Resolution: 1280x1024

Processor Notes: Scaling Governor: acpi-cpufreq ondemand

12nov

12nov_

Processor: AMD Athlon II X2 220 @ 2.80GHz (2 Cores), Motherboard: ASRock N68-S3 UCC (P1.50 BIOS), Chipset: NVIDIA MCP61, Memory: 4096MB, Disk: 120GB ADATA SU650 + 500GB Seagate ST3500630NS, Graphics: NVIDIA GeForce GTX 570 1280MB (732/1900MHz), Audio: Creative Labs SB Live! EMU10k1

OS: Slackware 14.2, Kernel: 4.4.38 (x86_64), Desktop: KDE, Display Server: X Server 1.18.3, Display Driver: NVIDIA 390.116, OpenGL: 4.5.0, Compiler: GCC 5.3.0 + Clang 3.8.0 + LLVM 3.8.0, File-System: ext4, Screen Resolution: 1280x1024

Processor Notes: Scaling Governor: acpi-cpufreq ondemand

18nov

Processor: AMD Phenom II X4 945 @ 3.00GHz (4 Cores), Motherboard: ASRock N68-S3 UCC (P1.50 BIOS), Chipset: NVIDIA MCP61, Memory: 4096MB, Disk: 120GB ADATA SU650 + 500GB Seagate ST3500630NS + 41GB IC35L040AVER07-0, Graphics: NVIDIA GeForce GTX 570 1280MB (732/1900MHz), Audio: Creative Labs SB Live! EMU10k1

OS: Slackware 14.2, Kernel: 4.4.38 (x86_64), Desktop: KDE, Display Server: X Server 1.18.3, Display Driver: NVIDIA 390.116, OpenGL: 4.5.0, Compiler: GCC 5.3.0 + Clang 3.8.0 + LLVM 3.8.0, File-System: ext4, Screen Resolution: 1280x1024

Processor Notes: Scaling Governor: acpi-cpufreq ondemand

GT610

GT610_

Processor: AMD Phenom II X4 945 @ 3.00GHz (4 Cores), Motherboard: ASRock N68-S3 UCC (P1.50 BIOS), Chipset: NVIDIA MCP61, Memory: 8GB, Disk: 120GB ADATA SU650 + 500GB Seagate ST3500630NS, Graphics: NVIDIA GeForce GT 610 1GB, Audio: Creative Labs EMU10k1

OS: Slackware 14.2 x86_64, Kernel: 5.10.10 (x86_64), Display Server: X Server 1.20.13, Display Driver: NVIDIA 390.144, OpenGL: 4.6.0 NVIDIA 390.144, Compiler: GCC 10.2.0 + Clang 11.0.0 + LLVM 11.0.0, File-System: ext4, Screen Resolution: 1280x1024

Kernel Notes: Transparent Huge Pages: madvise
Processor Notes: Scaling Governor: acpi-cpufreq ondemand - CPU Microcode: 0x10000b6
Graphics Notes: BAR1 / Visible vRAM Size: N/A
Security Notes: itlb_multihit: Not affected + l1tf: Not affected + mds: Not affected + meltdown: Not affected + spec_store_bypass: Not affected + spectre_v1: Mitigation of usercopy/swapgs barriers and __user pointer sanitization + spectre_v2: Mitigation of Full AMD retpoline STIBP: disabled RSB filling + srbds: Not affected + tsx_async_abort: Not affected

	NVIDIA GeForce 7025	may19	may19_1	GTX750k	12nov	12nov_	18nov	GT610	GT610_
GpuTest - Plot3D - 1280 x 1024 - Windowed (Points)	420	422		53027		52157	53055	8947	8947
Normalized	0.79%	0.8%		99.95%		98.31%	100%	16.86%	16.86%
Standard Deviation						2%	0%		
GpuTest - Plot3D - 1280 x 1024 - Fullscreen (Points)	397	395		52247		52243	52200	9306	9305
Normalized	0.76%	0.76%		100%		99.99%	99.91%	17.81%	17.81%
Standard Deviation				0%		0%	0%		

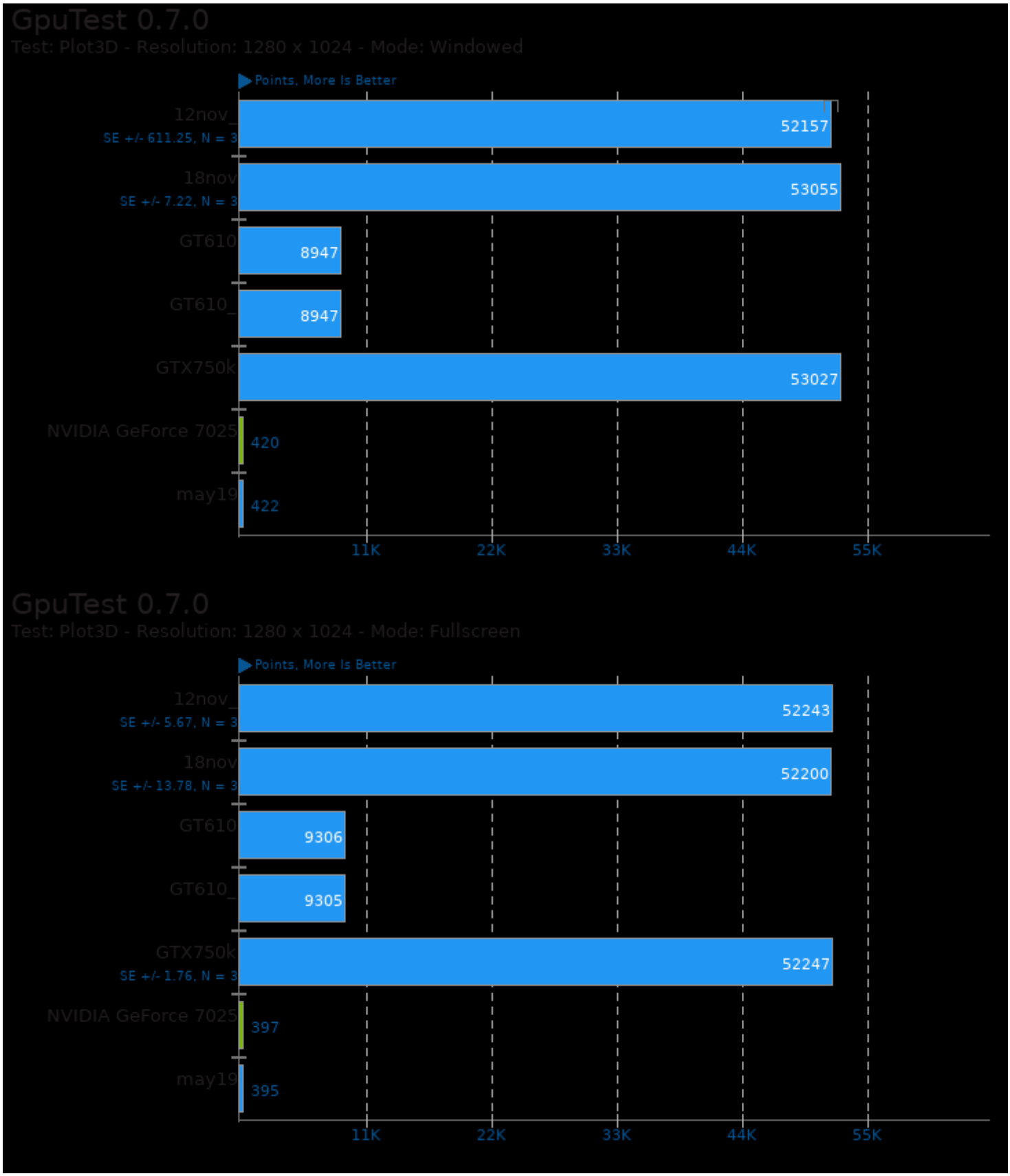
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GpuTest - GiMark - 1280 x 1024 - Windowed (Points)	1668	**1704**	**180**	**180**
Normalized	97.89%	100%	10.56%	10.56%
Standard Deviation	29.2%	25%		
GpuTest - Furmark - 1280 x 1024 - Windowed (Points)	916	**1023**	**217**	**217**
Normalized	89.54%	100%	21.21%	21.21%
Standard Deviation	10.5%	8.8%		
GpuTest - GiMark - 1280 x 1024 - Fullscreen (Points)	1229	**1234**	**177**	**177**
Normalized	99.59%	100%	14.34%	14.34%
Standard Deviation		0.4%		
GpuTest - TessMark - 1280 x 1024 - Windowed (Points)	2767	**2873**		**560**
Normalized	96.31%	100%		19.49%
Standard Deviation	4.4%	3.4%		
GpuTest - Triangle - 1280 x 1024 - Windowed (Points)	470305	**470850**		**52674**
Normalized	99.88%	100%		11.19%
Standard Deviation	0%	0.1%		0%
GpuTest - Furmark - 1280 x 1024 - Fullscreen (Points)	984	**1030**		**206**
Normalized	95.53%	100%		20%
Standard Deviation	13.8%	10%		
GpuTest - TessMark - 1280 x 1024 - Fullscreen (Points)	2631	**2738**		**546**
Normalized	96.09%	100%		19.94%
Standard Deviation	1.6%	2.6%		
GpuTest - Triangle - 1280 x 1024 - Fullscreen (Points)	393525	**395491**		**36978**
Normalized	99.5%	100%		9.35%
Standard Deviation	0.1%	0.1%		0%
GpuTest - Pixmark Piano - 1280 x 1024 - Windowed (Points)	**350**	344		**76**
Normalized	100%	98.29%		21.71%
Standard Deviation	9.2%	3.9%		
GpuTest - Pixmark Piano - 1280 x 1024 - Fullscreen (Points)	331	**336**		**74**
Normalized	98.51%	100%		22.02%
Standard Deviation		3.9%		

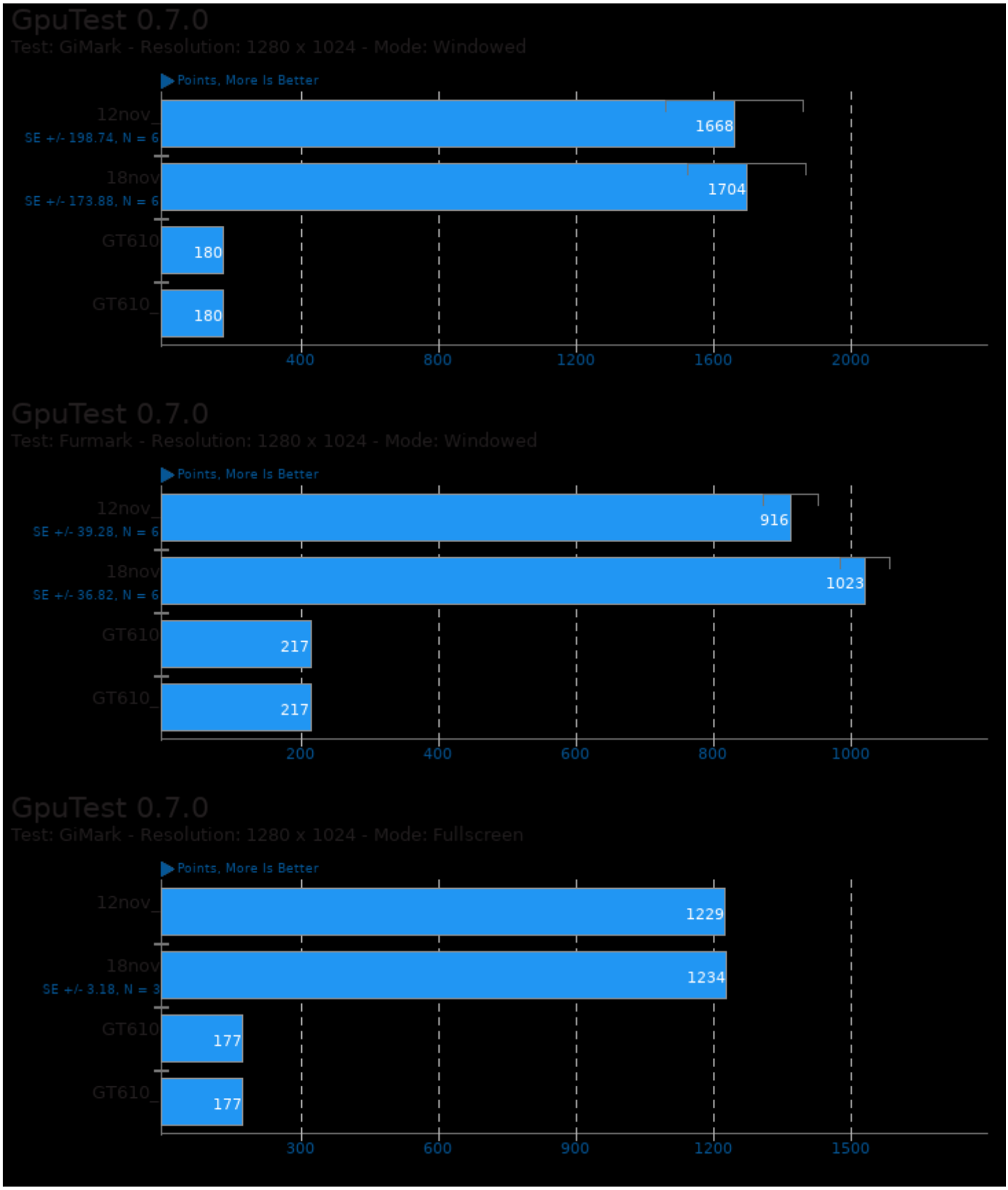
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GpuTest - Pixmark Volplosion - 1280 x 1024 - Windowed (Points)	915	**968**	**206**
Normalized	94.52%	100%	21.28%
Standard Deviation	3.4%	1.7%	
GpuTest - Pixmark Volplosion - 1280 x 1024 - Fullscreen (Points)	913	**934**	**201**
Normalized	97.75%	100%	21.52%
Standard Deviation	5.6%	2.3%	

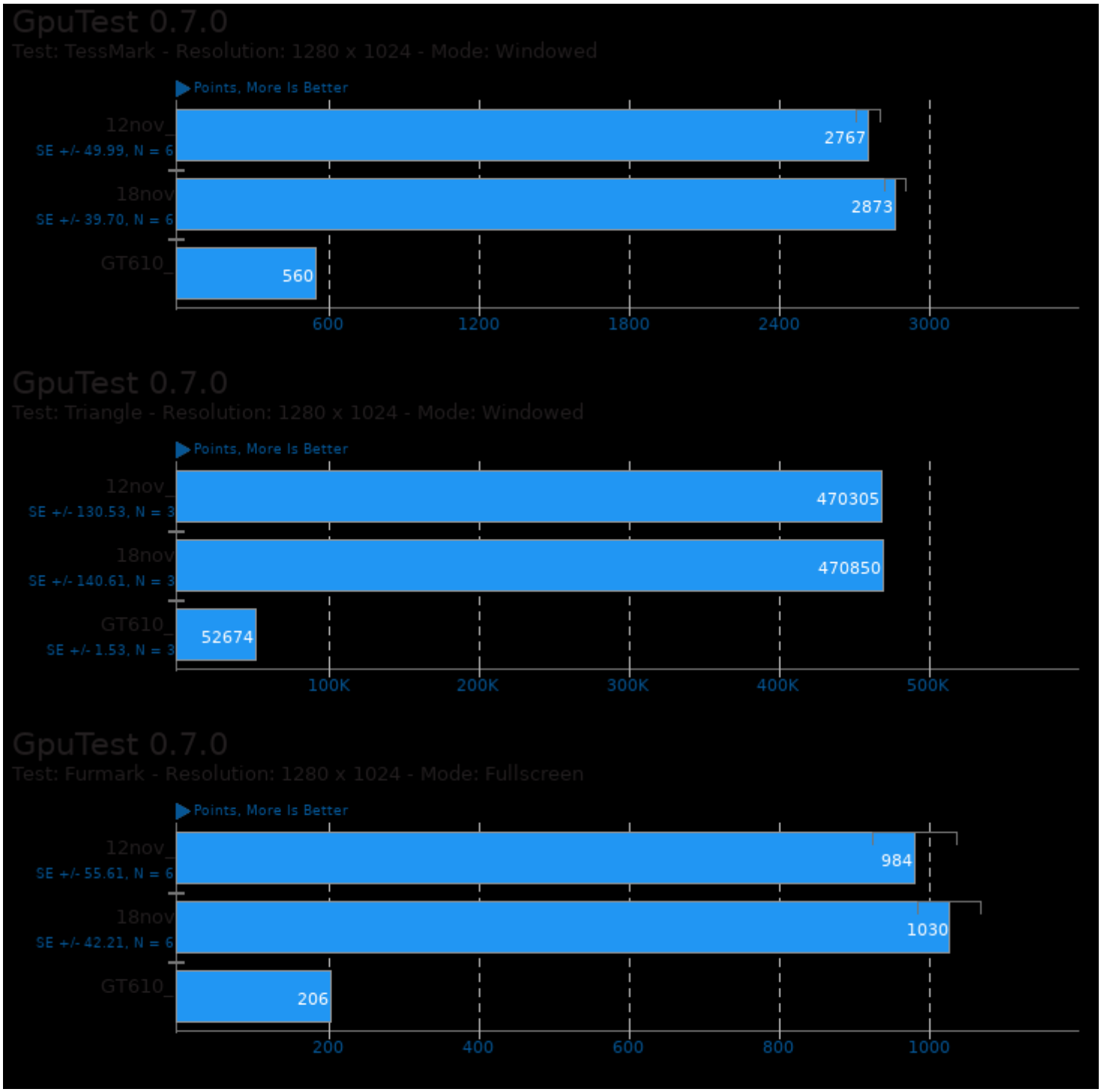
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GpuTest 0.7.0
Test: Plot3D - Resolution: 1280 x 1024 - Mode: Windowed
Points, More Is Better
12nov_
SE +/- 611.25, N = 3
52157
18nov
SE +/- 7.22, N = 3
53055
GT610
8947
GT610_
8947
GTX750k
53027
NVIDIA GeForce 7025
420
may19
422
11K
22K
33K
44K
55K
GpuTest 0.7.0
Test: Plot3D - Resolution: 1280 x 1024 - Mode: Fullscreen
Points, More Is Better
12nov_
SE +/- 5.67, N = 3
52243
18nov
SE +/- 13.78, N = 3
52200
GT610
9306
GT610_
9305
GTX750k
SE +/- 1.76, N = 3
52247
NVIDIA GeForce 7025
397
may19
395
11K
22K
33K
44K
55K

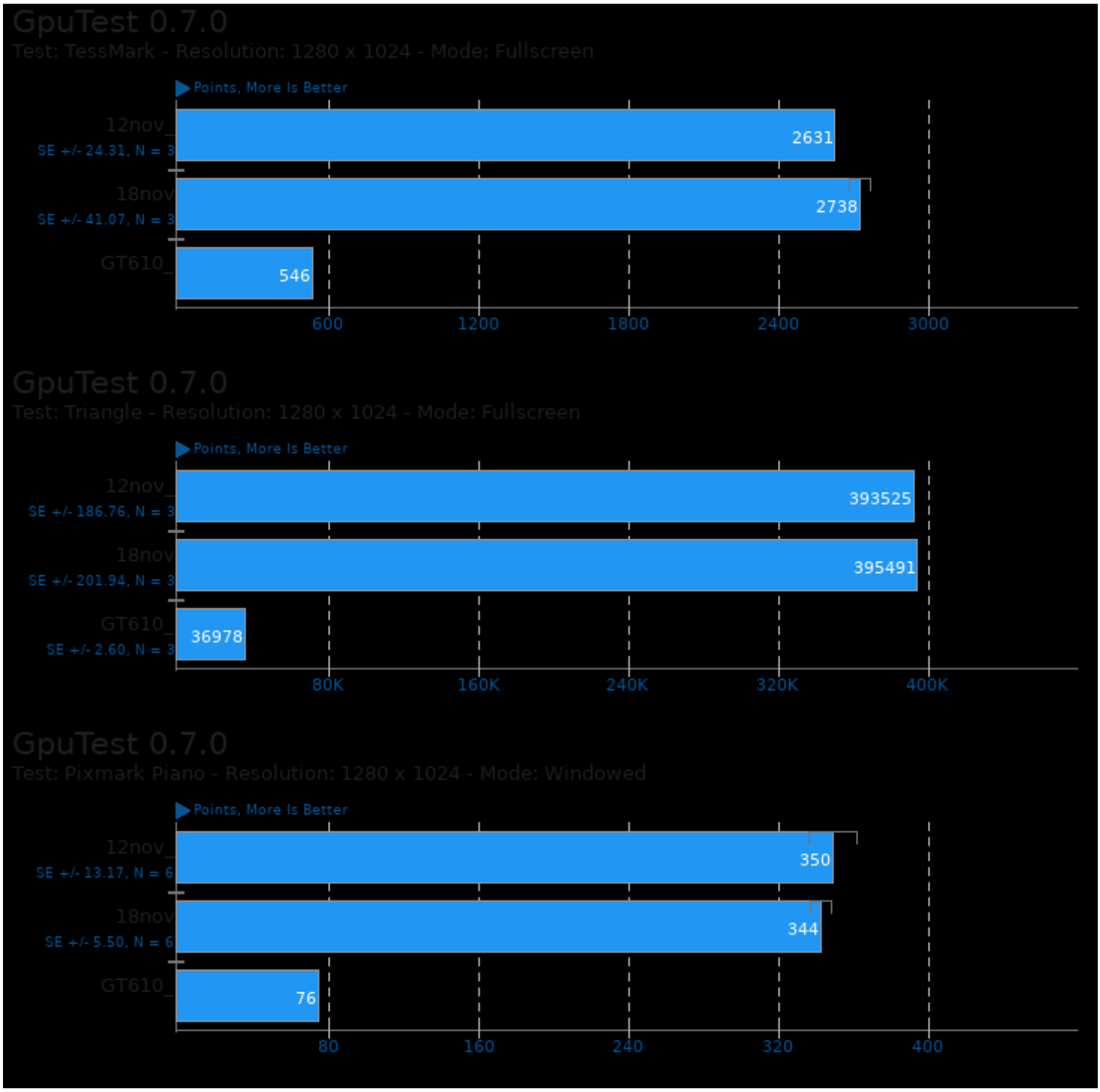
gputest_

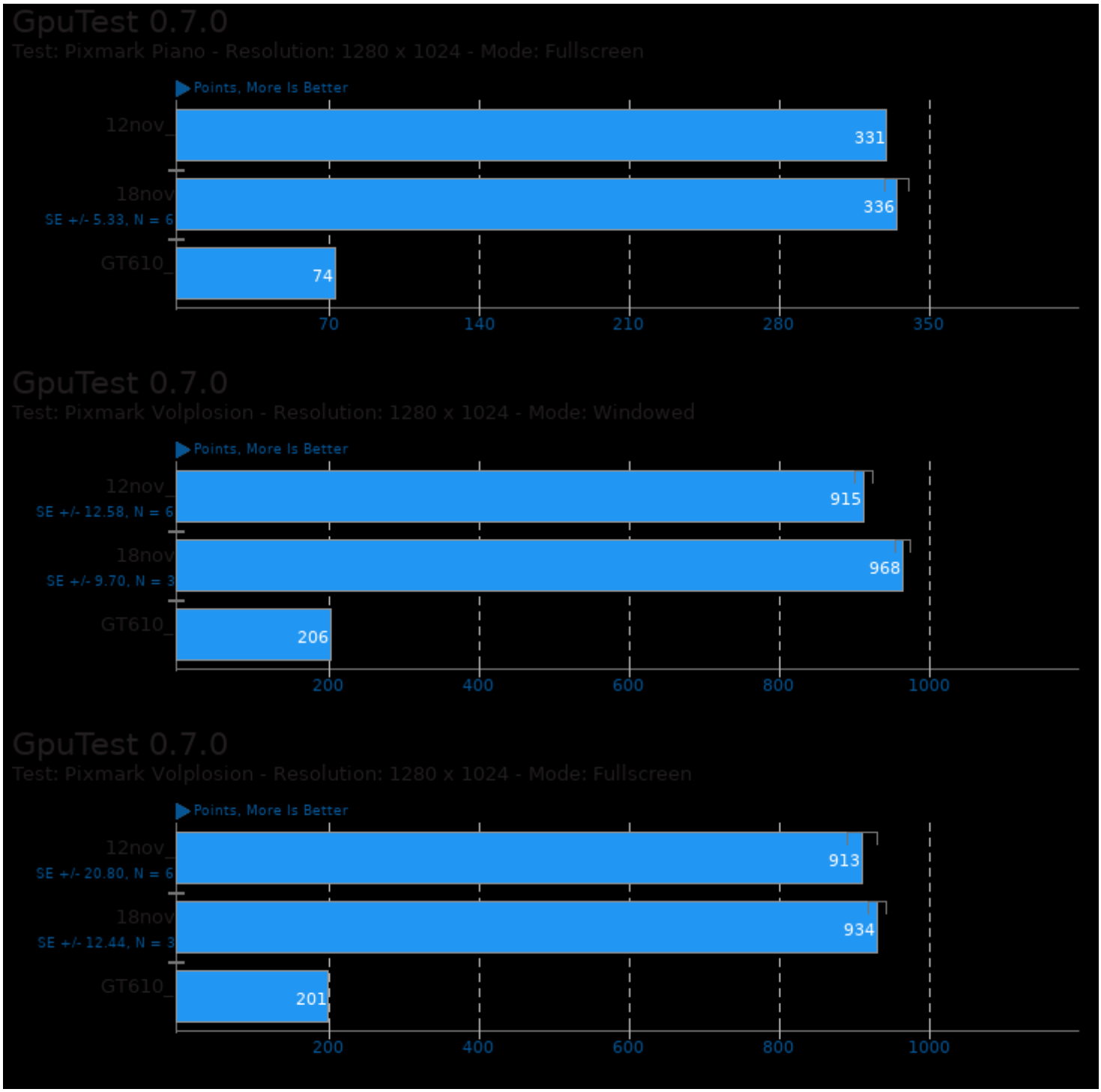

GpuTest 0.7.0
Test: GiMark - Resolution: 1280 x 1024 - Mode: Windowed
Points, More Is Better
12nov_
SE +/- 198.74, N = 6
1668
18nov
SE +/- 173.88, N = 6
1704
GT610
180
GT610_
180
400
800
1200
1600
2000
GpuTest 0.7.0
Test: Furmark - Resolution: 1280 x 1024 - Mode: Windowed
Points, More Is Better
12nov_
SE +/- 39.28, N = 6
916
18nov
SE +/- 36.82, N = 6
1023
GT610
217
GT610_
217
200
400
600
800
1000
GpuTest 0.7.0
Test: GiMark - Resolution: 1280 x 1024 - Mode: Fullscreen
Points, More Is Better
12nov_
1229
18nov
SE +/- 3.18, N = 3
1234
GT610
177
GT610_
177
300
600
900
1200
1500

gputest_


GpuTest 0.7.0
Test: TessMark - Resolution: 1280 x 1024 - Mode: Windowed
Points, More Is Better
12nov_
SE +/- 49.99, N = 6
2767
18nov
SE +/- 39.70, N = 6
2873
GT610_
560
600
1200
1800
2400
3000
GpuTest 0.7.0
Test: Triangle - Resolution: 1280 x 1024 - Mode: Windowed
Points, More Is Better
12nov_
SE +/- 130.53, N = 3
470305
18nov
SE +/- 140.61, N = 3
470850
GT610_
SE +/- 1.53, N = 3
52674
100K
200K
300K
400K
500K
GpuTest 0.7.0
Test: Furmark - Resolution: 1280 x 1024 - Mode: Fullscreen
Points, More Is Better
12nov_
SE +/- 55.61, N = 6
984
18nov
SE +/- 42.21, N = 6
1030
GT610_
206
200
400
600
800
1000

gputest_


GpuTest 0.7.0
Test: TessMark - Resolution: 1280 x 1024 - Mode: Fullscreen
Points, More Is Better
12nov_
SE +/- 24.31, N = 3
2631
18nov
SE +/- 41.07, N = 3
2738
GT610_
546
600
1200
1800
2400
3000
GpuTest 0.7.0
Test: Triangle - Resolution: 1280 x 1024 - Mode: Fullscreen
Points, More Is Better
12nov_
SE +/- 186.76, N = 3
393525
18nov
SE +/- 201.94, N = 3
395491
GT610_
SE +/- 2.60, N = 3
36978
80K
160K
240K
320K
400K
GpuTest 0.7.0
Test: Pixmark Piano - Resolution: 1280 x 1024 - Mode: Windowed
Points, More Is Better
12nov_
SE +/- 13.17, N = 6
350
18nov
SE +/- 5.50, N = 6
344
GT610_
76
80
160
240
320
400



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