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DVCV2_SAMPLE4

Intel Celeron J3455 testing with a Digivalet D18 v2 (D182G001 BIOS) and Intel HD 500 3GB on Ubuntu 20.04 via the Phoronix Test Suite.

Automated Executive Summary

Intel HD 500 had the most wins, coming in first place for 50% of the tests.

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

*GpuTest (Test: Plot3D - Resolution: 800 x 600 - Mode: Fullscreen) at 1.155x
GpuTest (Test: Plot3D - Resolution: 1280 x 1024 - Mode: Fullscreen) at 1.153x
GpuTest (Test: Plot3D - Resolution: 1440 x 480 - Mode: Fullscreen) at 1.15x
GpuTest (Test: Triangle - Resolution: 2880 x 480 - Mode: Fullscreen) at 1.149x
GpuTest (Test: Plot3D - Resolution: 1024 x 768 - Mode: Fullscreen) at 1.148x
GpuTest (Test: Plot3D - Resolution: 1280 x 800 - Mode: Fullscreen) at 1.146x
GpuTest (Test: Plot3D - Resolution: 1440 x 900 - Mode: Fullscreen) at 1.14x
GpuTest (Test: Plot3D - Resolution: 1600 x 900 - Mode: Fullscreen) at 1.136x
GpuTest (Test: Furmark - Resolution: 1920 x 1080 - Mode: Fullscreen) at 1.132x
GpuTest (Test: Plot3D - Resolution: 2880 x 480 - Mode: Fullscreen) at 1.132x.*

Test Systems:

DVCV2_SAMPLE4

Processor: Intel Celeron J3455 @ 2.30GHz (4 Cores), Motherboard: Digivalet D18 v2 (D182G001 BIOS), Chipset: Intel Celeron N3350/Pentium, Memory: 2 x 4096 MB DDR3-1600MT/s Unde AD3SSW4GB1WB-DKKCE, Disk: 16GB DG4016, Graphics: Intel HD 500 3072MB (750MHz), Audio: Realtek ALC269VC, Monitor: DENON-AVR, Network: Intel I350 Gigabit Connection + Qualcomm Atheros QCA6174 802.11ac Wireless

OS: Ubuntu 18.04, Kernel: 4.17.0-uhdgen (x86_64), Desktop: Openbox 3.6.1, Display Driver: intel 2.99.917, OpenGL: 4.5 Mesa 18.0.0-rc5, Compiler: GCC 7.3.0, File-System: ext4, Screen Resolution: 3840x2160

Kernel Notes: drm.edid_firmware=DP-1:edid/edid.bin

Processor Notes: Scaling Governor: intel_pstate powersave

Graphics Notes: SNA

Security Notes: __user pointer sanitization + Full generic retpoline IBPB IBRS_FW Protection

DVCV2_SAMPLE6-2

Processor: Intel Celeron J3455 @ 2.30GHz (4 Cores), Motherboard: Digivalet D18 v2 (D182G001 BIOS), Chipset: Intel Celeron N3350/Pentium, Memory: 2 x 4096 MB DDR3-1600MT/s Unde AD3SSW4GB1WB-DKKCE, Disk: 16GB DG4016, Graphics: Intel HD 500 3GB (750MHz), Audio: Realtek ALC269VC, Monitor: DENON-AVR, Network: 3 x Intel I350 + Qualcomm Atheros QCA6174 802.11ac

OS: Ubuntu 20.04, Kernel: 5.4.53-uhdgen (x86_64), Desktop: Openbox 3.6.1, Display Server: X Server 1.20.8, Display Driver: intel 2.99.917, OpenGL: 4.6 Mesa 20.0.8, Compiler: GCC 9.3.0, File-System: ext4, Screen Resolution: 3840x2160

Kernel Notes: drm.edid_firmware=DP-1:edid/edid.bin

Processor Notes: Scaling Governor: intel_pstate powersave - CPU Microcode: 0x1e

Graphics Notes: SNA

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 generic retpoline IBPB: conditional IBRS_FW STIBP: disabled RSB filling + srbds: Not affected + tsx_async_abort: Not affected

Intel HD 500

Processor: Intel Celeron J3455 @ 2.30GHz (4 Cores), Motherboard: Digivalet D18 v2 (D182G001 BIOS), Chipset: Intel Celeron N3350/Pentium, Memory: 2 x 4096 MB DDR3-1600MT/s Unde AD3SSW4GB1WB-DKKCE, Disk: 31GB Ultra USB 3.0 + 16GB DG4016, Graphics: Intel HD 500 3GB (750MHz), Audio: Realtek ALC269VC, Monitor: DENON-AVR, Network: 3 x Intel I350 + Qualcomm Atheros QCA6174 802.11ac

OS: Ubuntu 20.04, Kernel: 5.4.53-uhdgen (x86_64), Desktop: Openbox 3.6.1, Display Server: X Server 1.20.8, Display Driver: intel 2.99.917, OpenGL: 4.6 Mesa 20.0.8, Compiler: GCC 9.3.0, File-System: ext4, Screen Resolution: 3840x2160

Kernel Notes: drm.edid_firmware=DP-1:edid/edid.bin

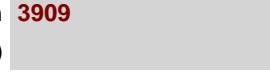
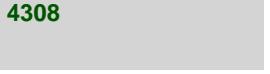
Processor Notes: Scaling Governor: intel_pstate powersave - CPU Microcode: 0x1e

Graphics Notes: SNA

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 generic retpoline IBPB: conditional IBRS_FW STIBP: disabled RSB filling + srbds: Not affected + tsx_async_abort: Not affected

DVCV2_SAMPLE4

	DVCV2_SAMPLE4	DVCV2_SAMPLE6-2	Intel HD 500
GpuTest - Plot3D - 800 x 600 - Fullscreen (Points)	4692	5421	5420
Normalized	86.55%	100%	99.98%
Standard Deviation	0.2%	0%	0%
GpuTest - Furmark - 800 x 600 - Fullscreen (Points)	547		598
Normalized	91.47%		100%
Standard Deviation			0.1%
GpuTest - Plot3D - 1024 x 768 - Fullscreen (Points)	4487		5151
Normalized	87.11%		100%
Standard Deviation	0.3%		0.1%
GpuTest - Plot3D - 1280 x 800 - Fullscreen (Points)	4210		4825
Normalized	87.25%		100%
Standard Deviation	0.2%		0.1%
GpuTest - Plot3D - 1440 x 480 - Fullscreen (Points)	4195		4826
Normalized	86.92%		100%
Standard Deviation	0.1%		0.1%
GpuTest - Plot3D - 1440 x 900 - Fullscreen (Points)	4071		4642
Normalized	87.7%		100%
Standard Deviation	0.2%		0.1%
GpuTest - Plot3D - 1600 x 900 - Fullscreen (Points)	3978		4518
Normalized	88.05%		100%
Standard Deviation	0.3%		0.5%
GpuTest - Plot3D - 2880 x 480 - Fullscreen (Points)	4073		4611
Normalized	88.33%		100%
Standard Deviation	0.1%		0%
GpuTest - Furmark - 1024 x 768 - Fullscreen (Points)	412		439
Normalized	93.85%		100%
Standard Deviation			1%
GpuTest - Furmark - 1280 x 800 - Fullscreen (Points)	389		404
Normalized	96.29%		100%
Standard Deviation			1%
GpuTest - Furmark - 1440 x 480 - Fullscreen (Points)	676		702
Normalized	96.3%		100%
Standard Deviation			1.1%
GpuTest - Furmark - 1440 x 900 - Fullscreen (Points)	331		334
Normalized	99.1%		100%
Standard Deviation			0.6%
GpuTest - Furmark - 1600 x 900 - Fullscreen (Points)	321		333
Normalized	96.4%		100%
Standard Deviation	3%		0.3%

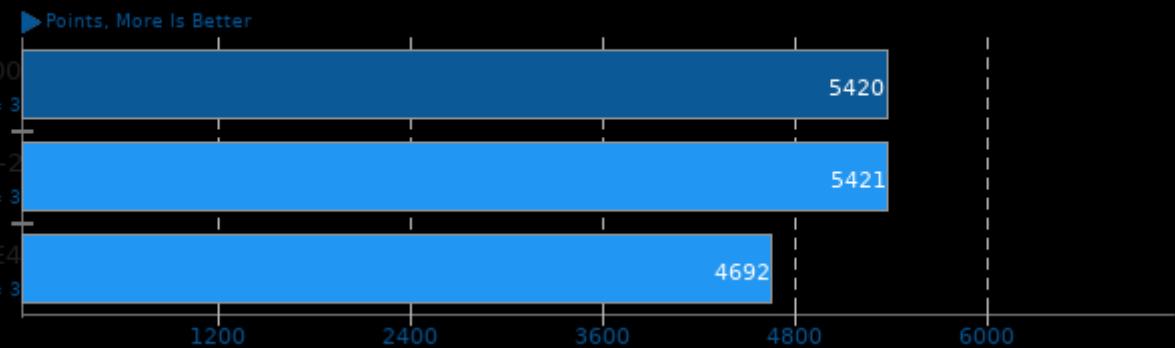
GpuTest - Furmark - 2880 x 480 - Fullscreen	663 (Points)		679 
	Normalized 97.64%	100%	
	Standard Deviation 0.2%	0.7%	
GpuTest - Plot3D - 1280 x 1024 - Fullscreen	4177 (Points)		4814 
	Normalized 86.77%	100%	
	Standard Deviation 0.3%	0.6%	
GpuTest - Plot3D - 1680 x 1050 - Fullscreen	3909 (Points)		4308 
	Normalized 90.74%	100%	
	Standard Deviation 0.1%	0.1%	
GpuTest - Plot3D - 1920 x 1080 - Fullscreen	3833 (Points)		4161 
	Normalized 92.12%	100%	
	Standard Deviation 0.2%	0.1%	
GpuTest - Plot3D - 3840 x 2160 - Fullscreen	2377 (Points)		2421 
	Normalized 98.18%	100%	
	Standard Deviation 1.4%	0.3%	
GpuTest - Plot3D - 4096 x 2160 - Fullscreen	2373 (Points)		2408 
	Normalized 98.55%	100%	
	Standard Deviation 0.2%	0.5%	
GpuTest - Triangle - 800 x 600 - Fullscreen	66698 (Points)		59579 
	Normalized 100%	89.33%	
	Standard Deviation 0.2%	0.3%	
GpuTest - Furmark - 1280 x 1024 - Fullscreen	276 (Points)		286 
	Normalized 96.5%	100%	
	Standard Deviation	1.2%	
GpuTest - Furmark - 1680 x 1050 - Fullscreen	257 (Points)		270 
	Normalized 95.19%	100%	
	Standard Deviation 3.3%	0.8%	
GpuTest - Furmark - 1920 x 1080 - Fullscreen	227 (Points)		257 
	Normalized 88.33%	100%	
	Standard Deviation 5%	0.7%	
GpuTest - Furmark - 3840 x 2160 - Fullscreen	76 (Points)		81 
	Normalized 93.83%	100%	
	Standard Deviation 3.1%	0.7%	
GpuTest - Furmark - 4096 x 2160 - Fullscreen	75 (Points)		81 
	Normalized 92.59%	100%	
	Standard Deviation 3.3%	0.7%	
GpuTest - Triangle - 1024 x 768 - Fullscreen	45995 (Points)		41538 
	Normalized 100%	90.31%	
	Standard Deviation 0.3%	0.3%	

GpuTest - Triangle - 1280 x 800 - Fullscreen	36651 (Points)	34794
	Normalized 100%	94.93%
	Standard Deviation 0.3%	0.2%
GpuTest - Triangle - 1440 x 480 - Fullscreen	50456 (Points)	46752
	Normalized 100%	92.66%
	Standard Deviation 0.1%	0.1%
GpuTest - Triangle - 1440 x 900 - Fullscreen	29986 (Points)	28738
	Normalized 100%	95.84%
	Standard Deviation 0.5%	0.1%
GpuTest - Triangle - 1600 x 900 - Fullscreen	27507 (Points)	27110
	Normalized 100%	98.56%
	Standard Deviation 0.5%	0.5%
GpuTest - Triangle - 2880 x 480 - Fullscreen	28460 (Points)	24759
	Normalized 100%	87%
	Standard Deviation 0.1%	0.3%
GpuTest - Triangle - 1280 x 1024 - Fullscreen	29794 (Points)	28020
	Normalized 100%	94.05%
	Standard Deviation 0.3%	0.1%
GpuTest - Triangle - 1680 x 1050 - Fullscreen	23054 (Points)	21324
	Normalized 100%	92.5%
	Standard Deviation 0.3%	0%
GpuTest - Triangle - 1920 x 1080 - Fullscreen	20403 (Points)	20073
	Normalized 100%	98.38%
	Standard Deviation 1.3%	0.1%
GpuTest - Triangle - 3840 x 2160 - Fullscreen	6835 (Points)	6479
	Normalized 100%	94.79%
	Standard Deviation 0.2%	0.3%
GpuTest - Triangle - 4096 x 2160 - Fullscreen	6860 (Points)	6472
	Normalized 100%	94.34%
	Standard Deviation 0.5%	0.2%
GpuTest - Pixmark Piano - 800 x 600 - Fullscreen (Points)	200 Normalized 99.01%	202
GpuTest - Pixmark Piano - 1024 x 768 - Fullscreen (Points)	124 Normalized 99.2%	125
GpuTest - Pixmark Piano - 1280 x 800 - Fullscreen (Points)	97	97
GpuTest - Pixmark Piano - 1440 x 480 - Fullscreen (Points)	145 Normalized 98.64%	147

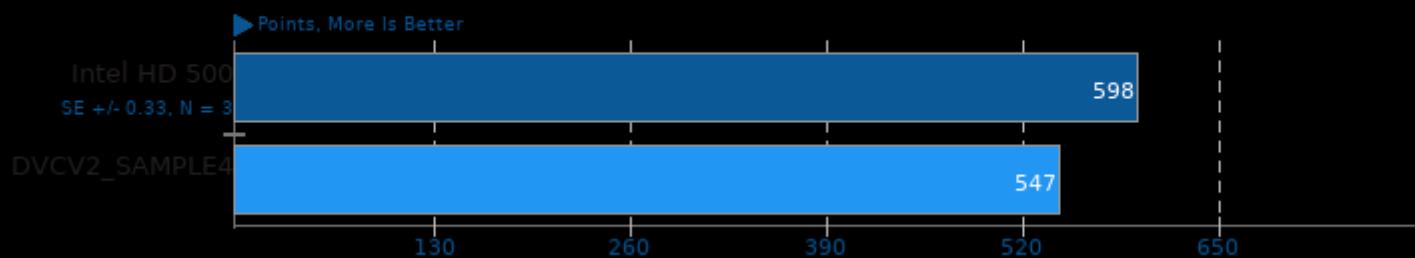
GpuTest - Pixmark Piano - 1440 x 900 -	77	
Fullscreen (Points)		
GpuTest - Pixmark Piano - 1600 x 900 -	69	
Fullscreen (Points)		
Normalized	98.57%	
GpuTest - Pixmark Piano - 2880 x 480 -	60	
Fullscreen (Points)		
GpuTest - Pixmark Piano - 1280 x 1024 -	75	
Fullscreen (Points)		
Normalized	98.68%	
GpuTest - Pixmark Piano - 1680 x 1050 -	57	
Fullscreen (Points)		
GpuTest - Pixmark Piano - 1920 x 1080 -	48	
Fullscreen (Points)		
Normalized	97.96%	
GpuTest - Pixmark Piano - 3840 x 2160 -	13	
Fullscreen (Points)		
GpuTest - Pixmark Piano - 4096 x 2160 -	13	
Fullscreen (Points)		
GpuTest - Pixmark Volplosion - 800 x 600 -	522	
Fullscreen (Points)		
GpuTest - Pixmark Volplosion - 1024 x 768 -	325	
Fullscreen (Points)		
GpuTest - Pixmark Volplosion - 1280 x 800 -	255	
Fullscreen (Points)		
GpuTest - Pixmark Volplosion - 1440 x 480 -	383	
Fullscreen (Points)		
Normalized	99.74%	
GpuTest - Pixmark Volplosion - 1440 x 900 -	202	
Fullscreen (Points)		
GpuTest - Pixmark Volplosion - 1600 x 900 -	184	
Fullscreen (Points)		
GpuTest - Pixmark Volplosion - 2880 x 480 -	199	
Fullscreen (Points)		
Normalized	100%	
GpuTest - Pixmark Volplosion - 1280 x 1024 -	197	
Fullscreen (Points)		
GpuTest - Pixmark Volplosion - 1680 x 1050 -	150	
Fullscreen (Points)		
Normalized	100%	
Standard Deviation	0.4%	
GpuTest - Pixmark Volplosion - 1920 x 1080 -	128	
Fullscreen (Points)		
GpuTest - Pixmark Volplosion - 3840 x 2160 -	33	
Fullscreen (Points)		
GpuTest - Pixmark Volplosion - 4096 x 2160 -	33	
Fullscreen (Points)		

GpuTest 0.7.0

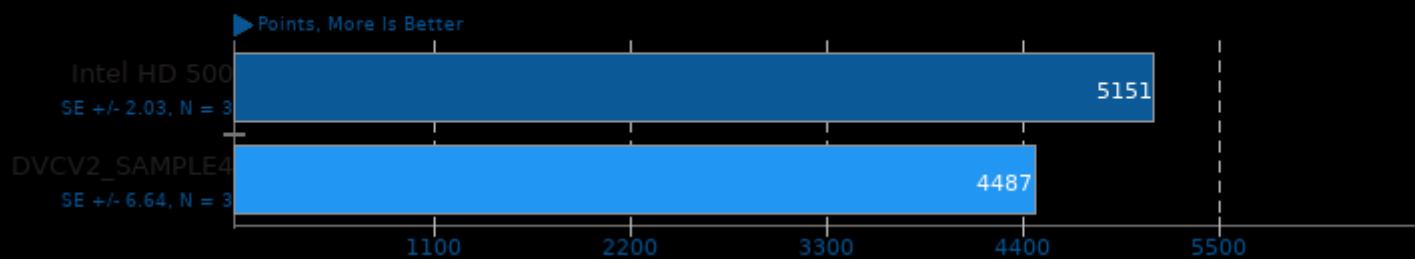
Test: Plot3D - Resolution: 800 x 600 - Mode: Fullscreen

**GpuTest 0.7.0**

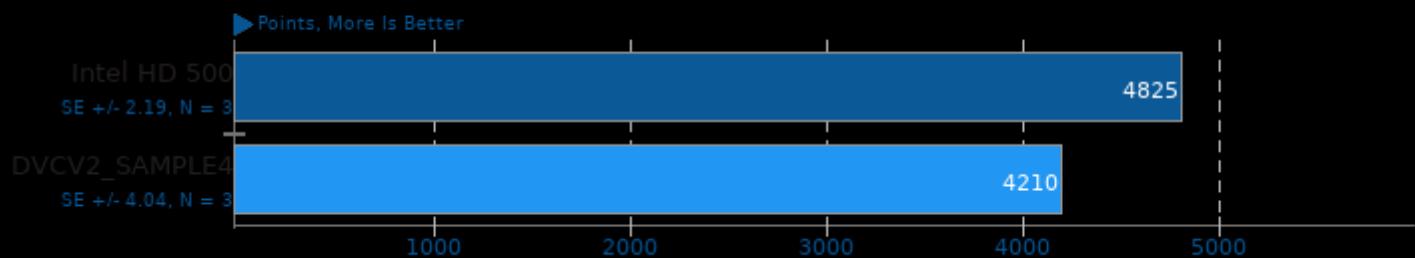
Test: Furmark - Resolution: 800 x 600 - Mode: Fullscreen

**GpuTest 0.7.0**

Test: Plot3D - Resolution: 1024 x 768 - Mode: Fullscreen

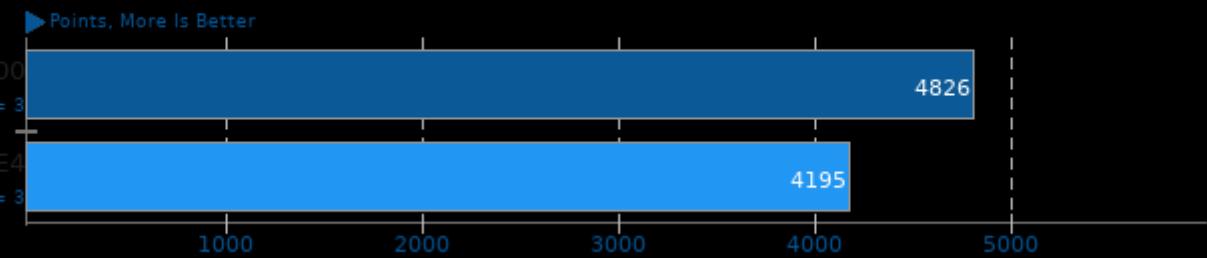
**GpuTest 0.7.0**

Test: Plot3D - Resolution: 1280 x 800 - Mode: Fullscreen

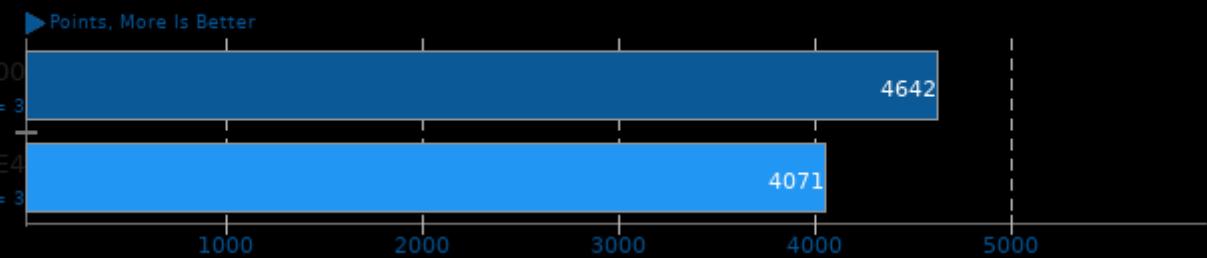


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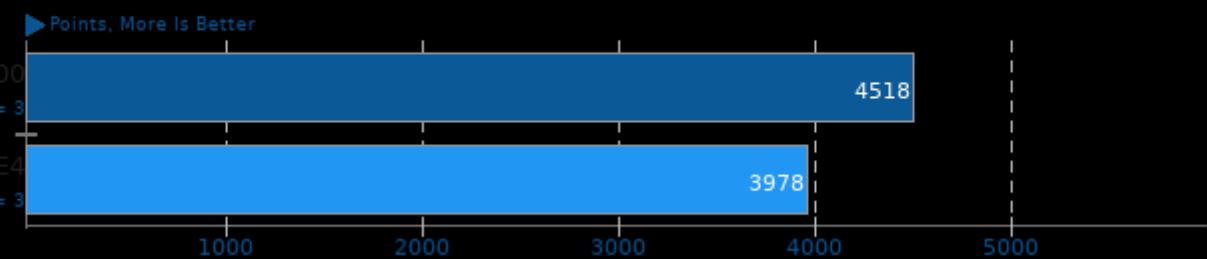
Test: Plot3D - Resolution: 1440 x 480 - Mode: Fullscreen

**GpuTest 0.7.0**

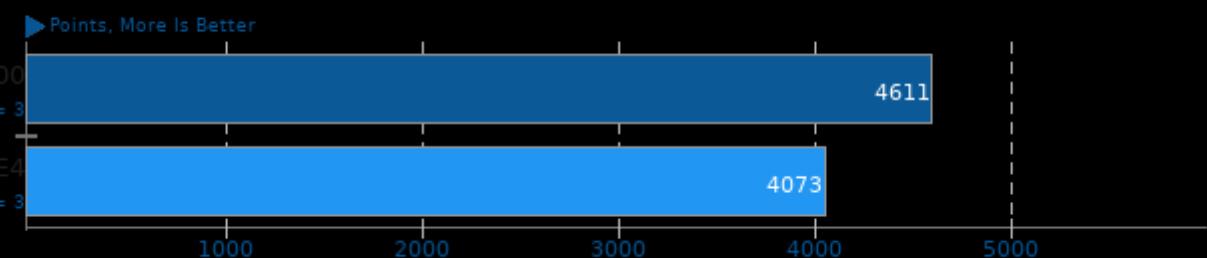
Test: Plot3D - Resolution: 1440 x 900 - Mode: Fullscreen

**GpuTest 0.7.0**

Test: Plot3D - Resolution: 1600 x 900 - Mode: Fullscreen

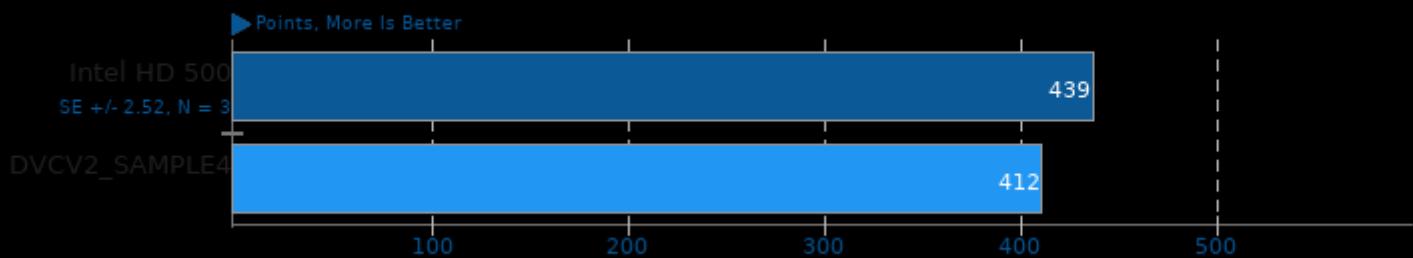
**GpuTest 0.7.0**

Test: Plot3D - Resolution: 2880 x 480 - Mode: Fullscreen



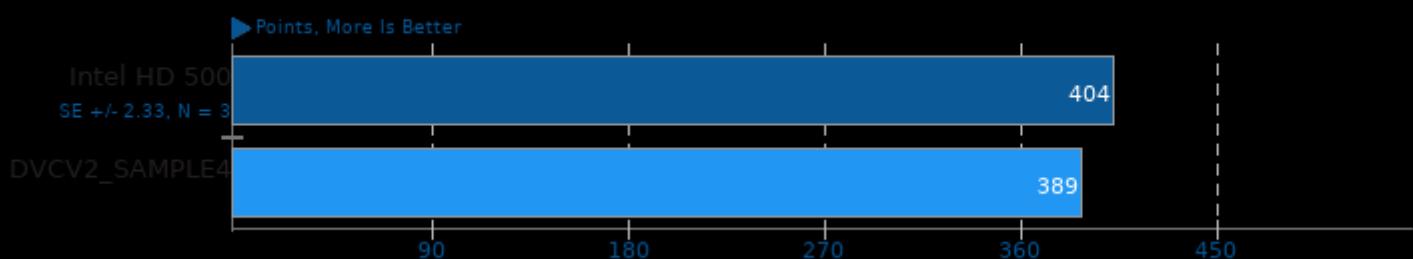
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Test: Furmark - Resolution: 1024 x 768 - Mode: Fullscreen



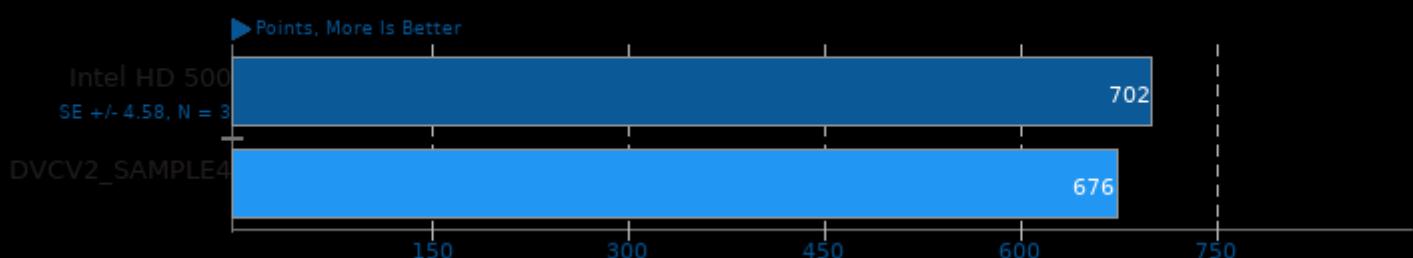
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Test: Furmark - Resolution: 1280 x 800 - Mode: Fullscreen



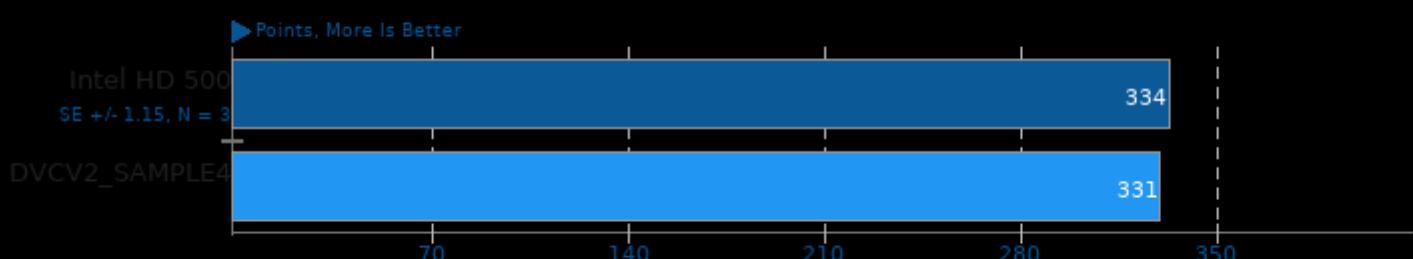
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Test: Furmark - Resolution: 1440 x 480 - Mode: Fullscreen



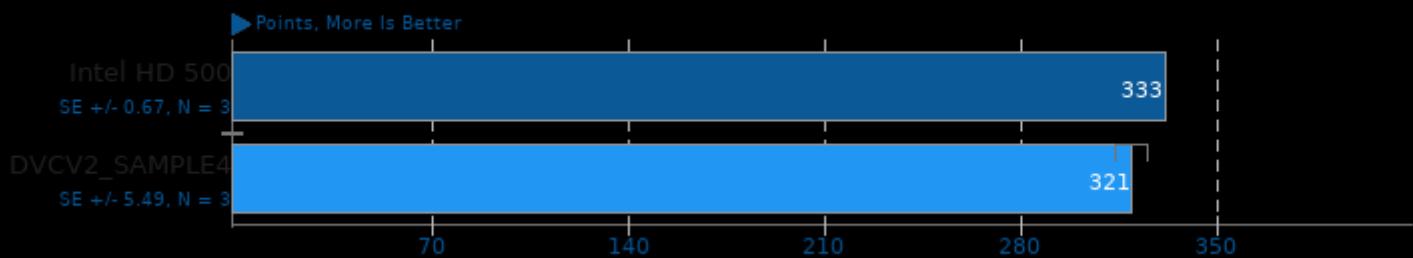
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Test: Furmark - Resolution: 1440 x 900 - Mode: Fullscreen

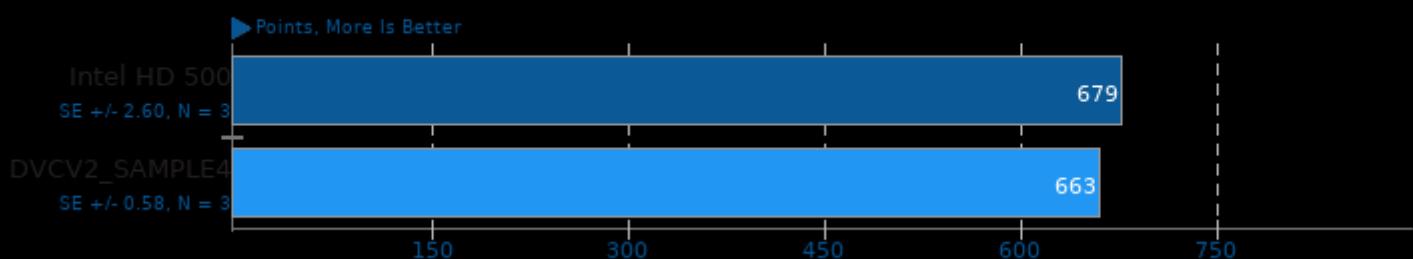


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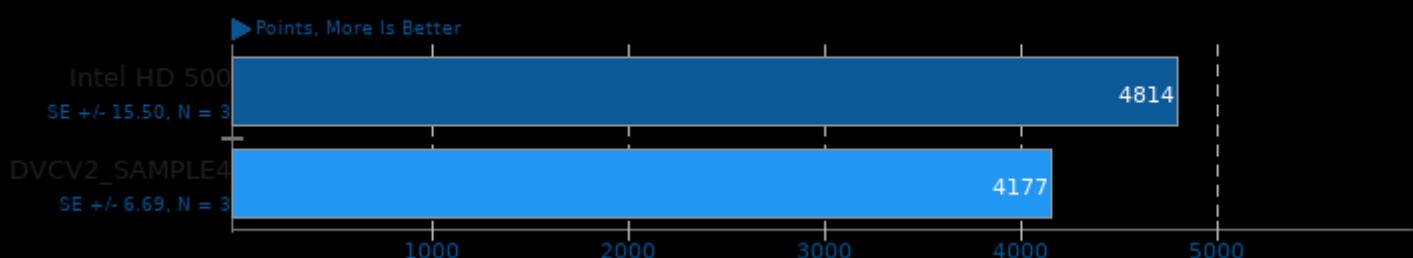
Test: Furmark - Resolution: 1600 x 900 - Mode: Fullscreen

**GpuTest 0.7.0**

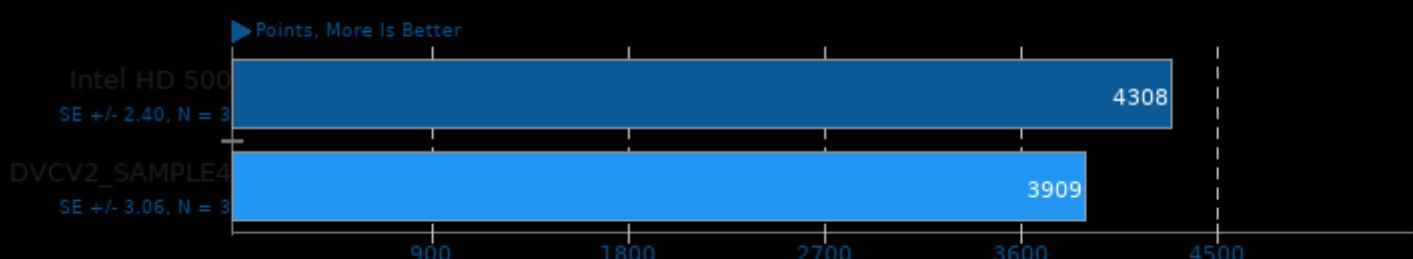
Test: Furmark - Resolution: 2880 x 480 - Mode: Fullscreen

**GpuTest 0.7.0**

Test: Plot3D - Resolution: 1280 x 1024 - Mode: Fullscreen

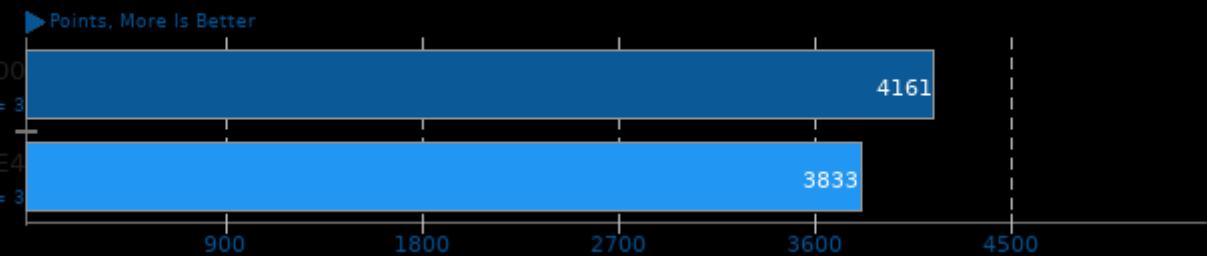
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Test: Plot3D - Resolution: 1680 x 1050 - Mode: Fullscreen

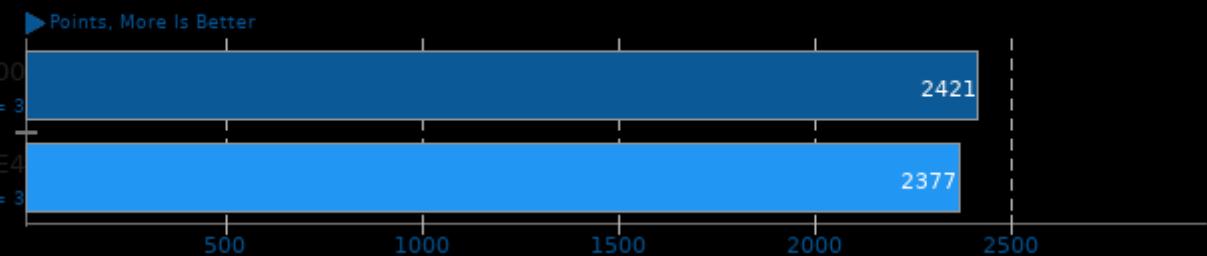


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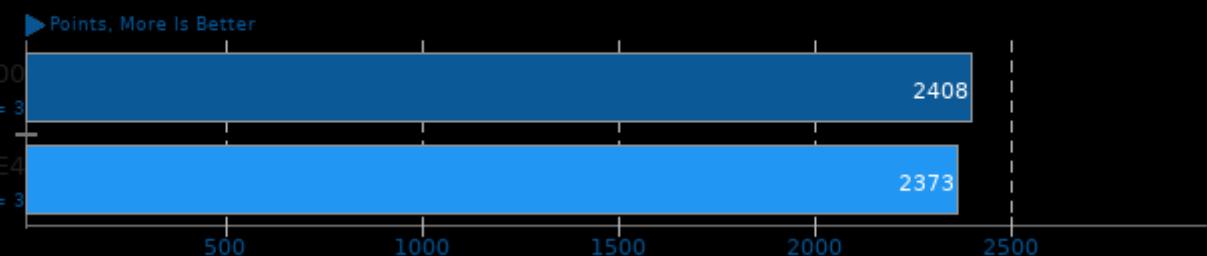
Test: Plot3D - Resolution: 1920 x 1080 - Mode: Fullscreen

**GpuTest 0.7.0**

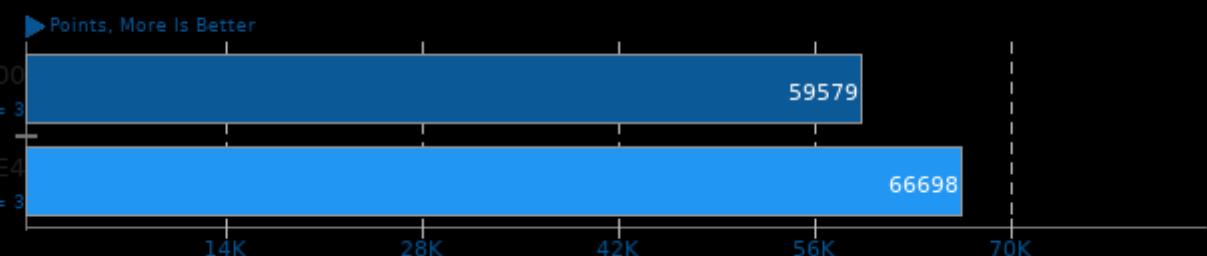
Test: Plot3D - Resolution: 3840 x 2160 - Mode: Fullscreen

**GpuTest 0.7.0**

Test: Plot3D - Resolution: 4096 x 2160 - Mode: Fullscreen

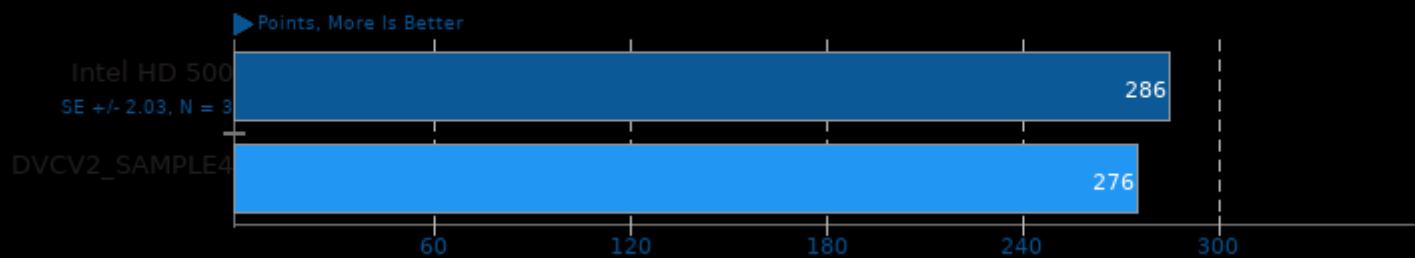
**GpuTest 0.7.0**

Test: Triangle - Resolution: 800 x 600 - Mode: Fullscreen

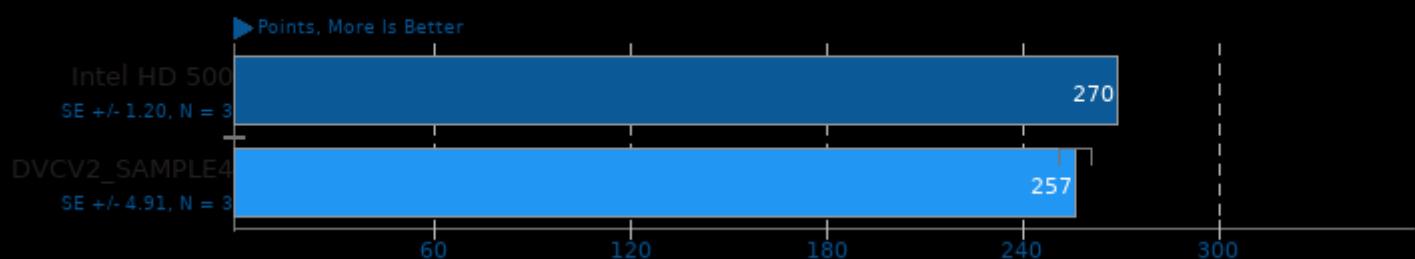


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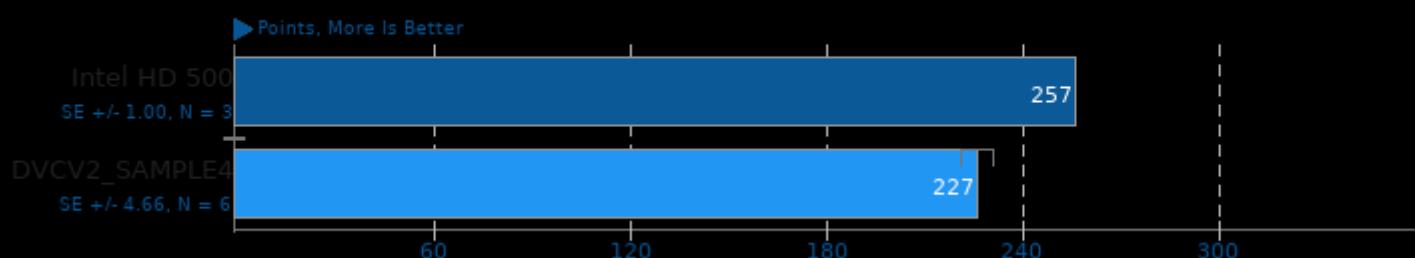
Test: Furmark - Resolution: 1280 x 1024 - Mode: Fullscreen

**GpuTest 0.7.0**

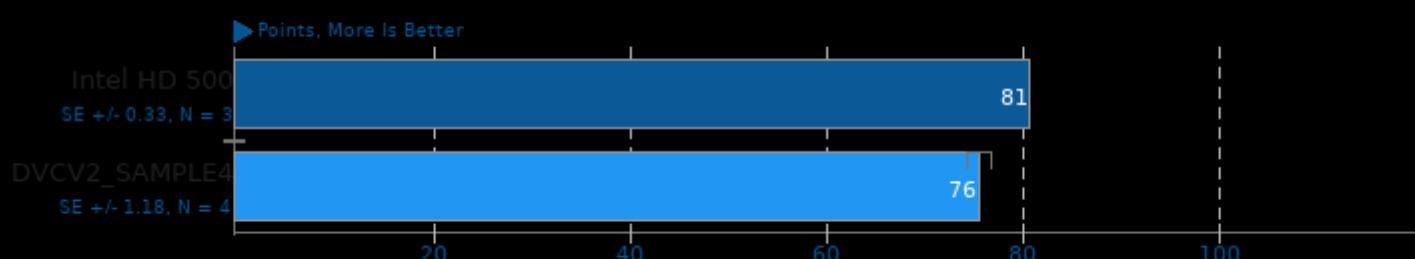
Test: Furmark - Resolution: 1680 x 1050 - Mode: Fullscreen

**GpuTest 0.7.0**

Test: Furmark - Resolution: 1920 x 1080 - Mode: Fullscreen

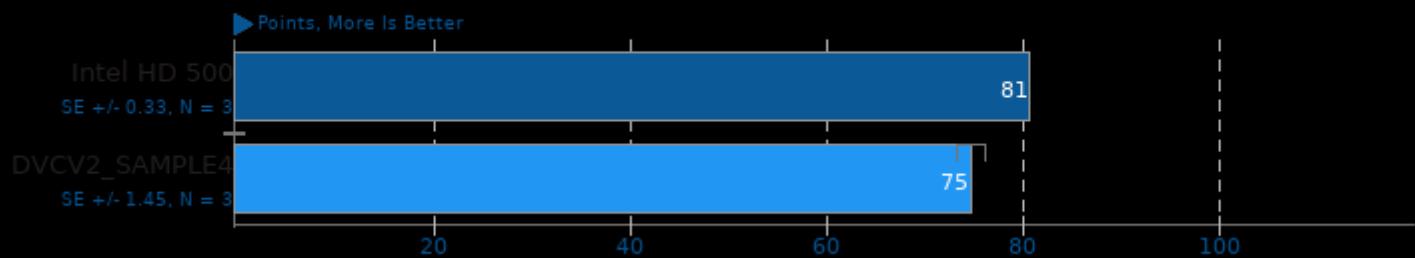
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Test: Furmark - Resolution: 3840 x 2160 - Mode: Fullscreen

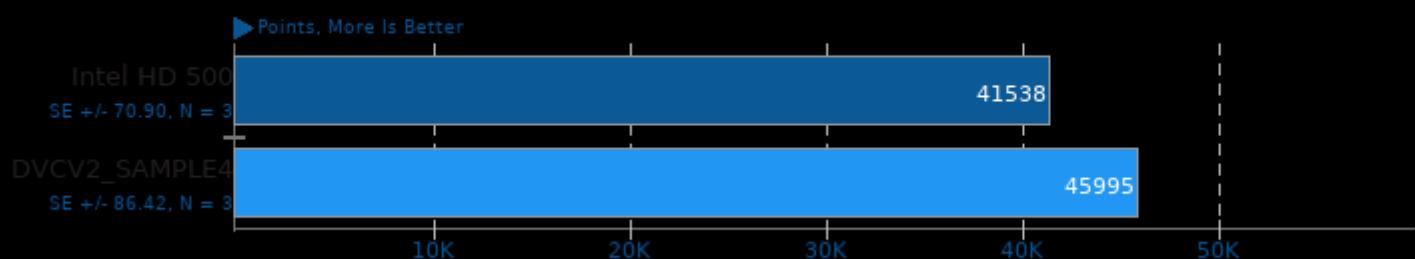


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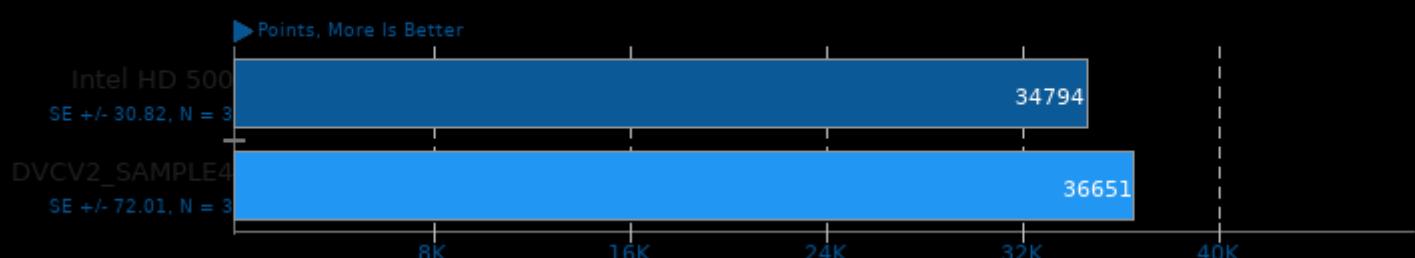
Test: Furmark - Resolution: 4096 x 2160 - Mode: Fullscreen

**GpuTest 0.7.0**

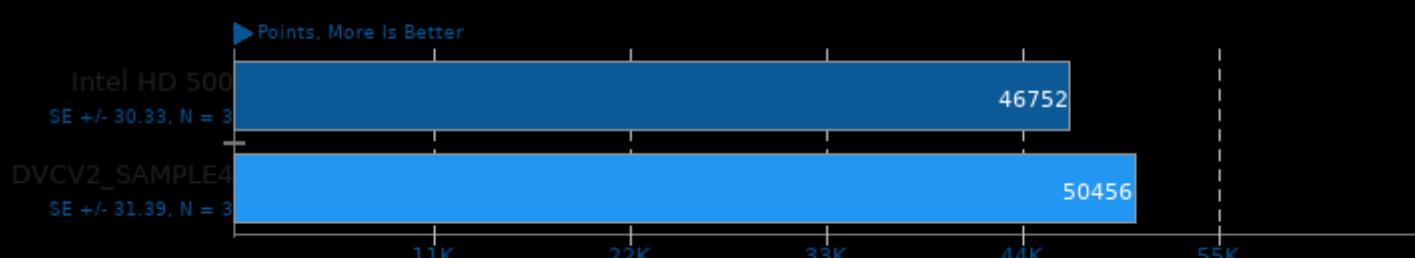
Test: Triangle - Resolution: 1024 x 768 - Mode: Fullscreen

**GpuTest 0.7.0**

Test: Triangle - Resolution: 1280 x 800 - Mode: Fullscreen

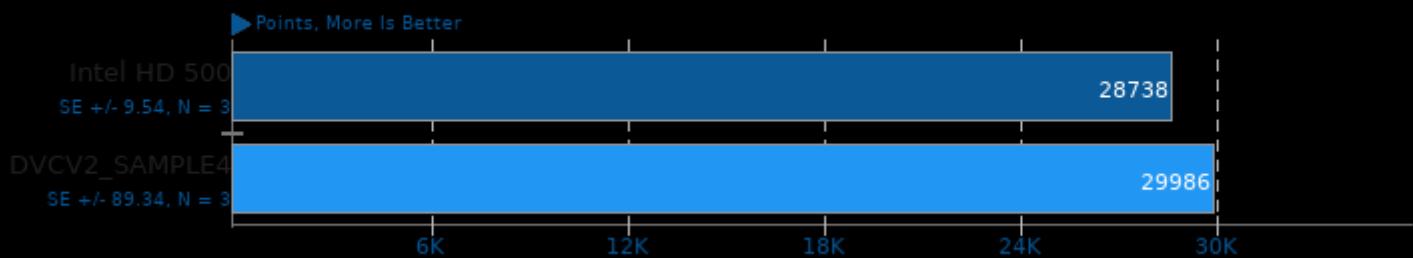
**GpuTest 0.7.0**

Test: Triangle - Resolution: 1440 x 480 - Mode: Fullscreen

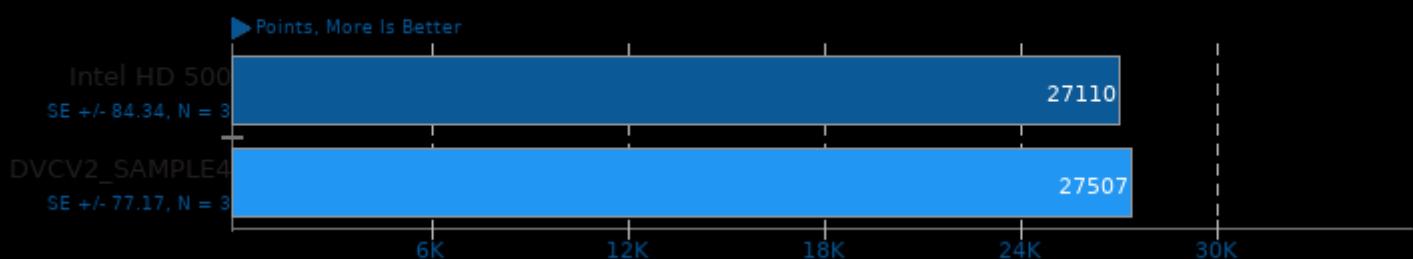


GpuTest 0.7.0

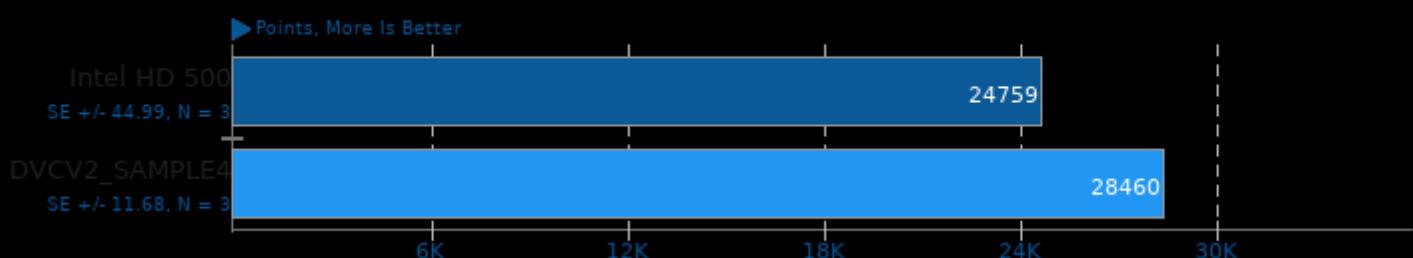
Test: Triangle - Resolution: 1440 x 900 - Mode: Fullscreen

**GpuTest 0.7.0**

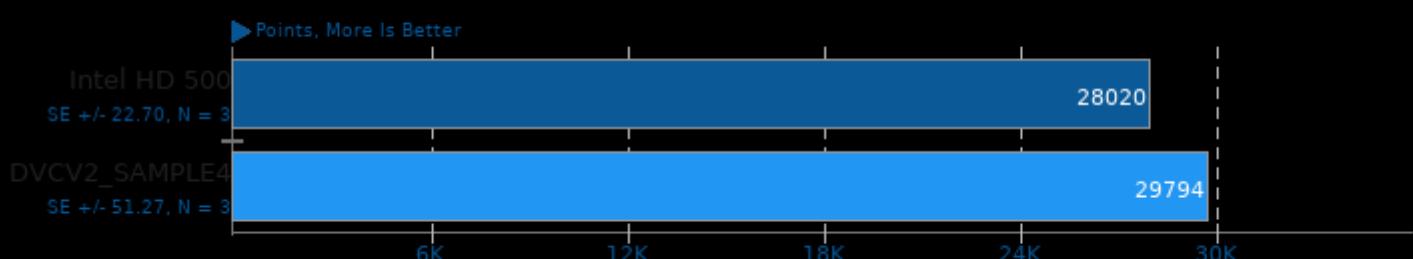
Test: Triangle - Resolution: 1600 x 900 - Mode: Fullscreen

**GpuTest 0.7.0**

Test: Triangle - Resolution: 2880 x 480 - Mode: Fullscreen

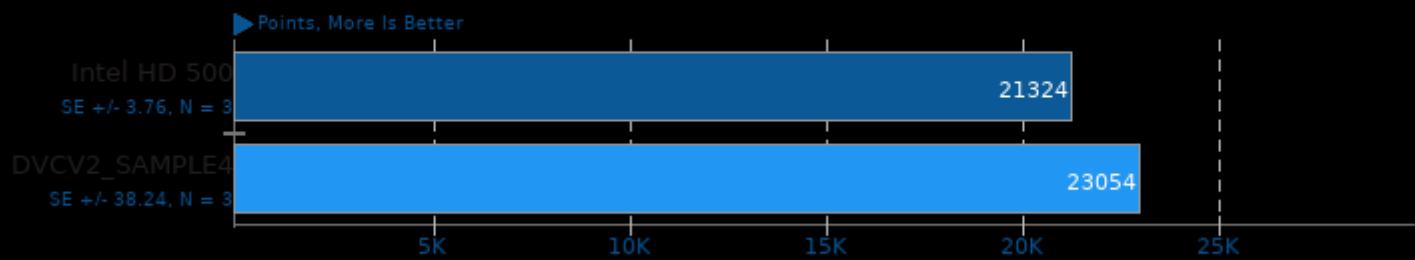
**GpuTest 0.7.0**

Test: Triangle - Resolution: 1280 x 1024 - Mode: Fullscreen



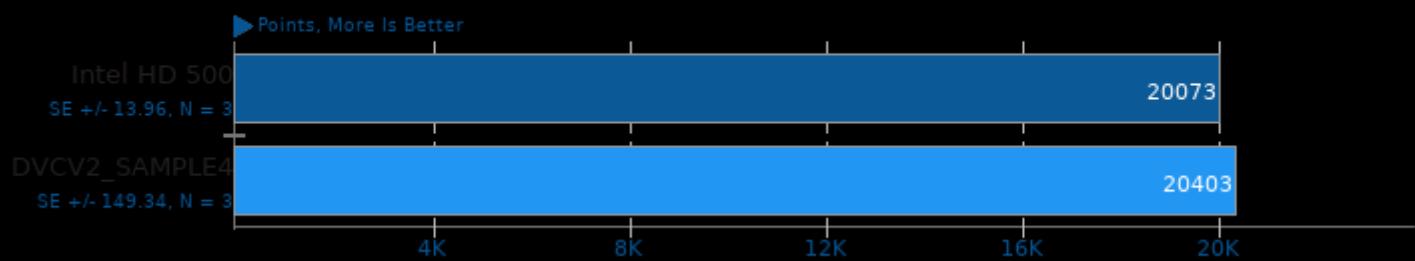
GpuTest 0.7.0

Test: Triangle - Resolution: 1680 x 1050 - Mode: Fullscreen



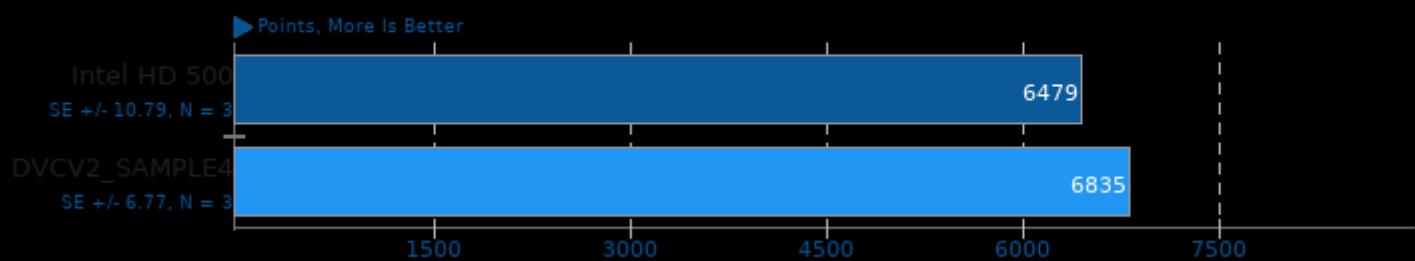
GpuTest 0.7.0

Test: Triangle - Resolution: 1920 x 1080 - Mode: Fullscreen



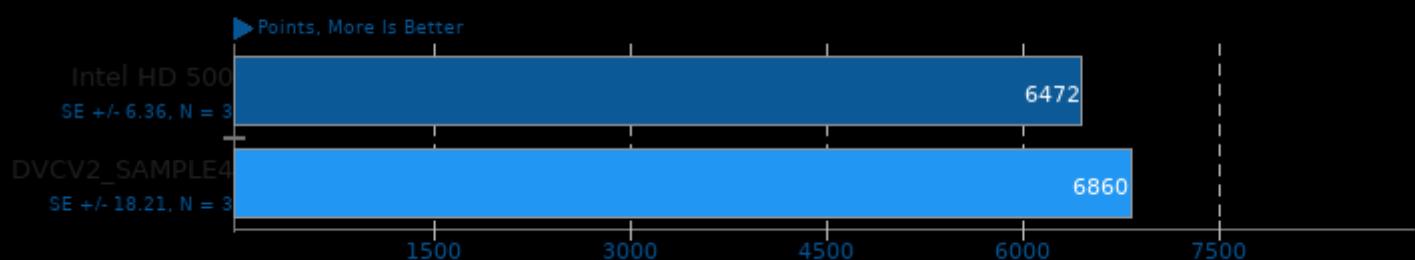
GpuTest 0.7.0

Test: Triangle - Resolution: 3840 x 2160 - Mode: Fullscreen



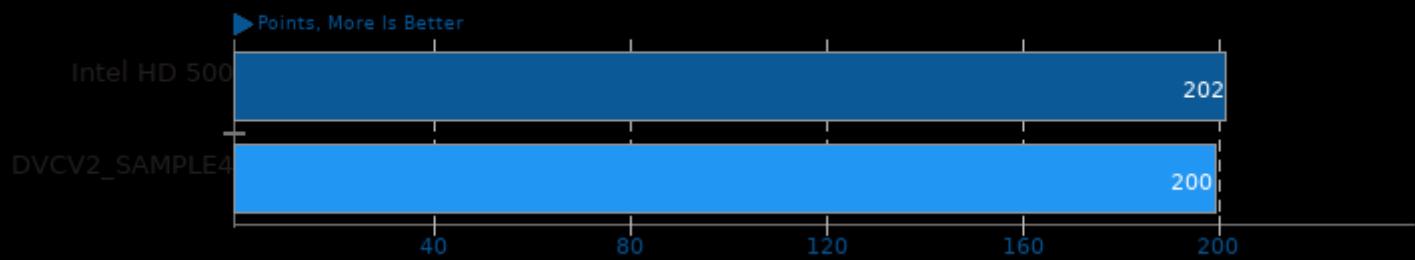
GpuTest 0.7.0

Test: Triangle - Resolution: 4096 x 2160 - Mode: Fullscreen

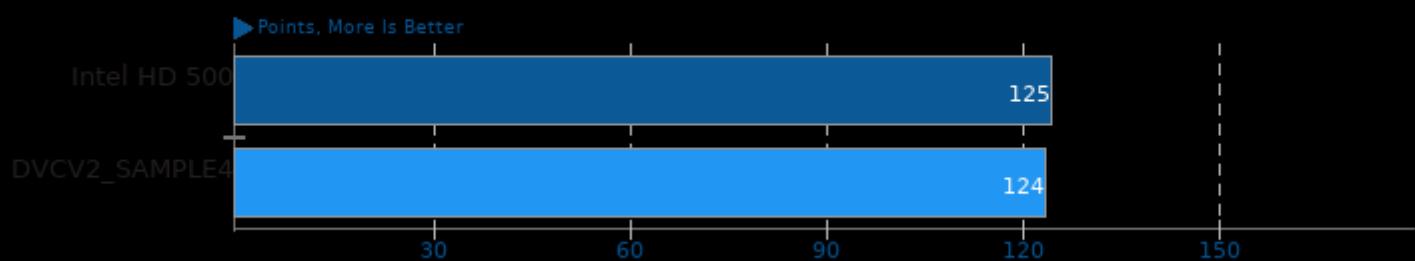


GpuTest 0.7.0

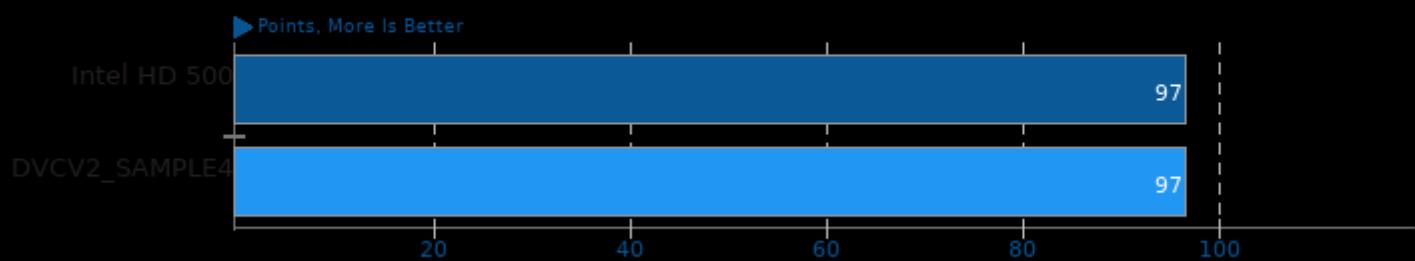
Test: Pixmark Piano - Resolution: 800 x 600 - Mode: Fullscreen

**GpuTest 0.7.0**

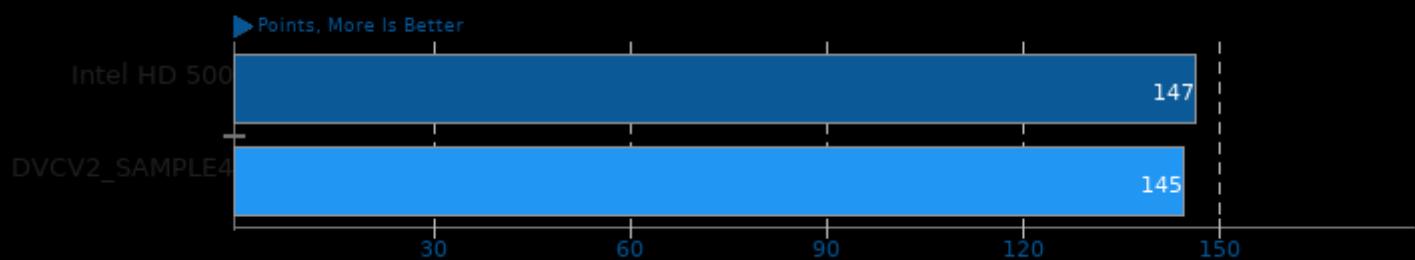
Test: Pixmark Piano - Resolution: 1024 x 768 - Mode: Fullscreen

**GpuTest 0.7.0**

Test: Pixmark Piano - Resolution: 1280 x 800 - Mode: Fullscreen

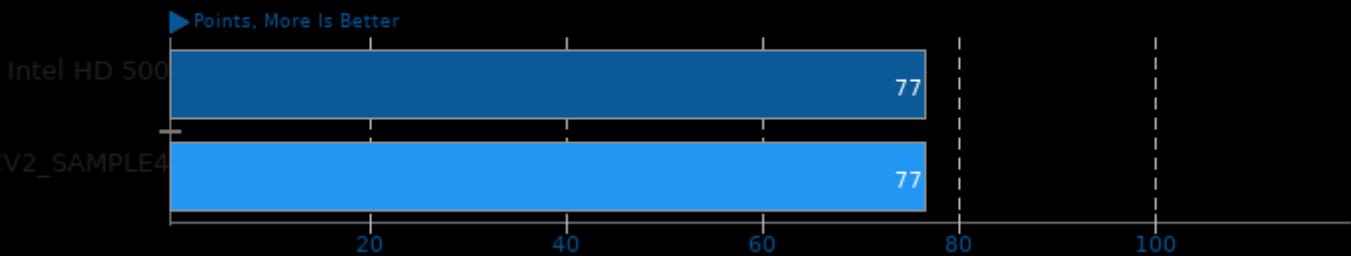
**GpuTest 0.7.0**

Test: Pixmark Piano - Resolution: 1440 x 480 - Mode: Fullscreen

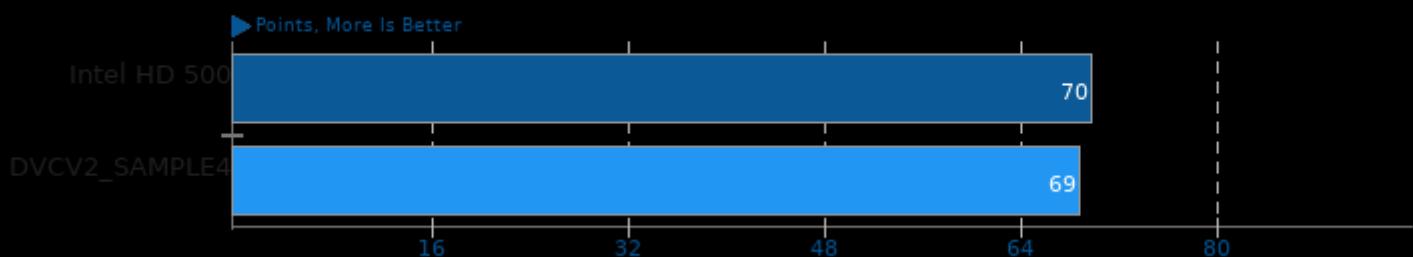


GpuTest 0.7.0

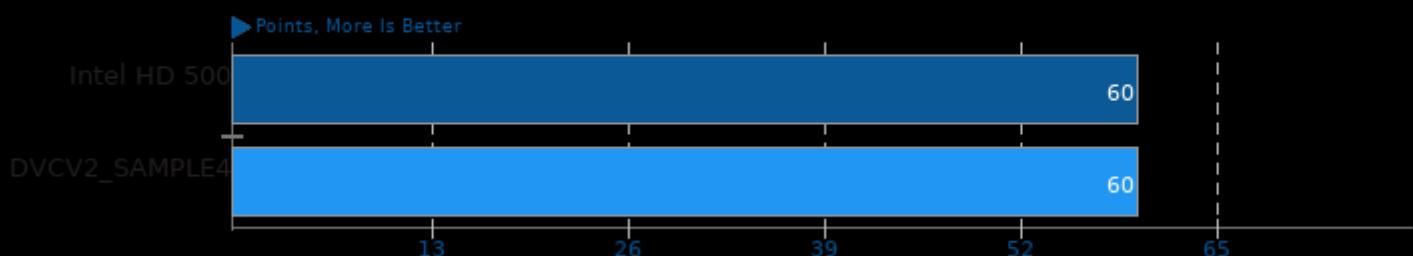
Test: Pixmark Piano - Resolution: 1440 x 900 - Mode: Fullscreen

**GpuTest 0.7.0**

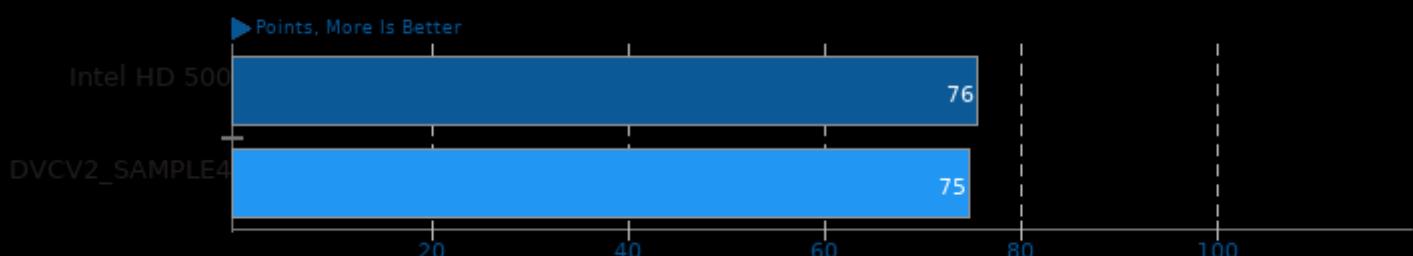
Test: Pixmark Piano - Resolution: 1600 x 900 - Mode: Fullscreen

**GpuTest 0.7.0**

Test: Pixmark Piano - Resolution: 2880 x 480 - Mode: Fullscreen

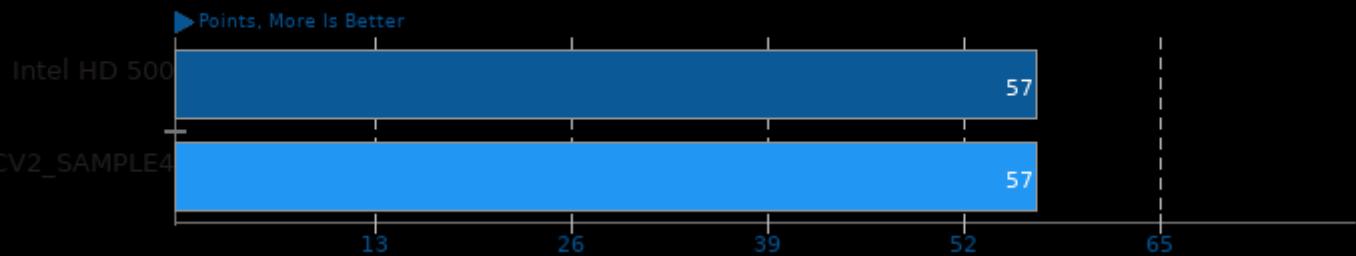
**GpuTest 0.7.0**

Test: Pixmark Piano - Resolution: 1280 x 1024 - Mode: Fullscreen

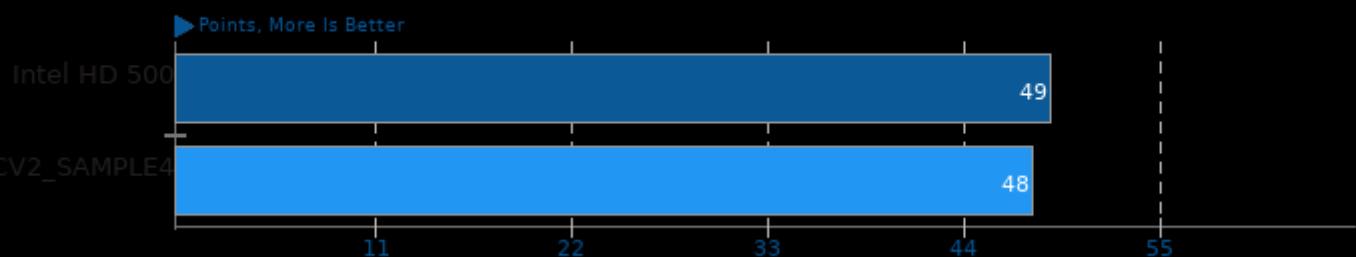


GpuTest 0.7.0

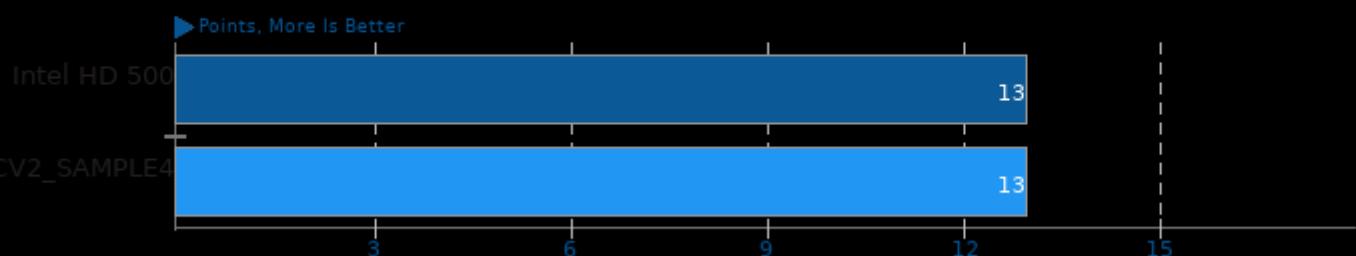
Test: Pixmark Piano - Resolution: 1680 x 1050 - Mode: Fullscreen

**GpuTest 0.7.0**

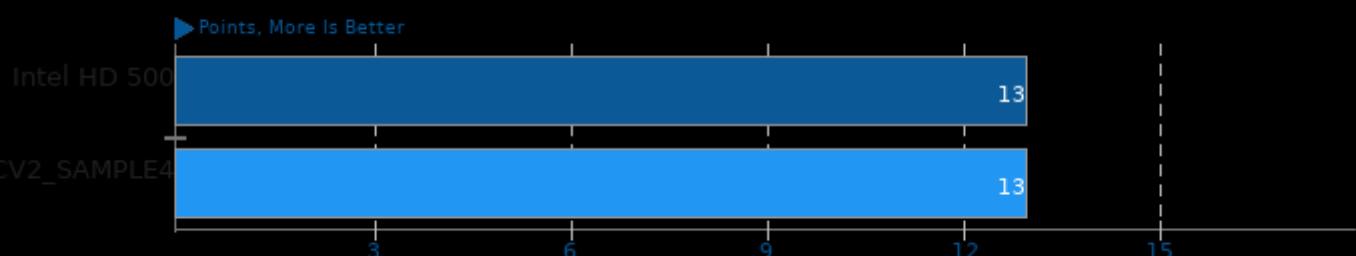
Test: Pixmark Piano - Resolution: 1920 x 1080 - Mode: Fullscreen

**GpuTest 0.7.0**

Test: Pixmark Piano - Resolution: 3840 x 2160 - Mode: Fullscreen

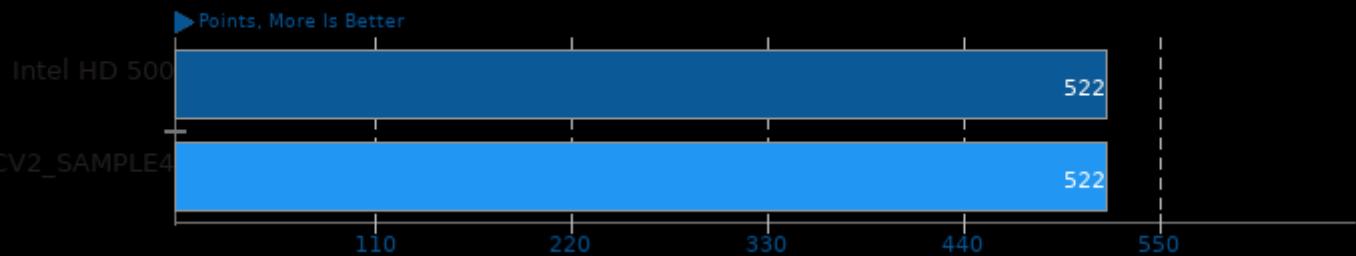
**GpuTest 0.7.0**

Test: Pixmark Piano - Resolution: 4096 x 2160 - Mode: Fullscreen

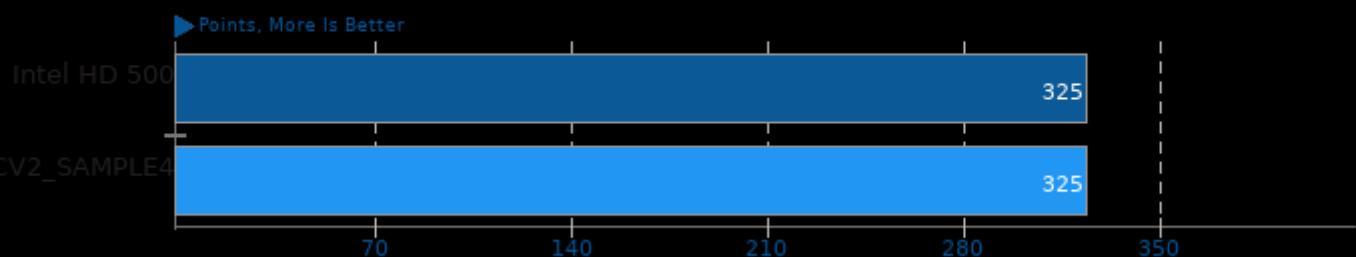


GpuTest 0.7.0

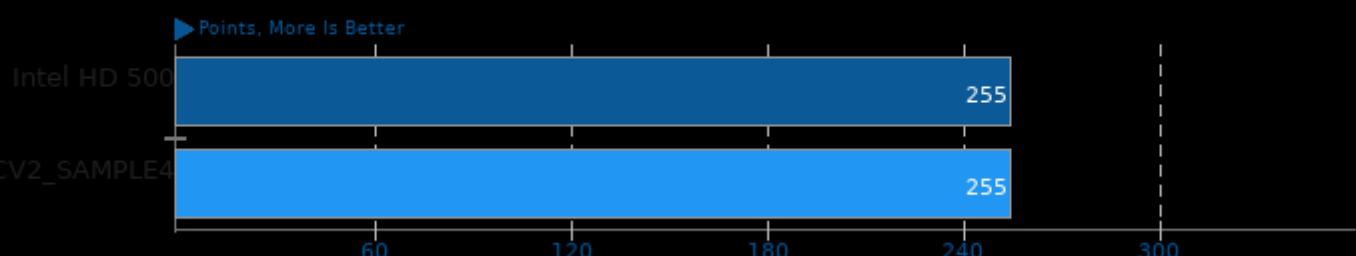
Test: Pixmark Volplosion - Resolution: 800 x 600 - Mode: Fullscreen

**GpuTest 0.7.0**

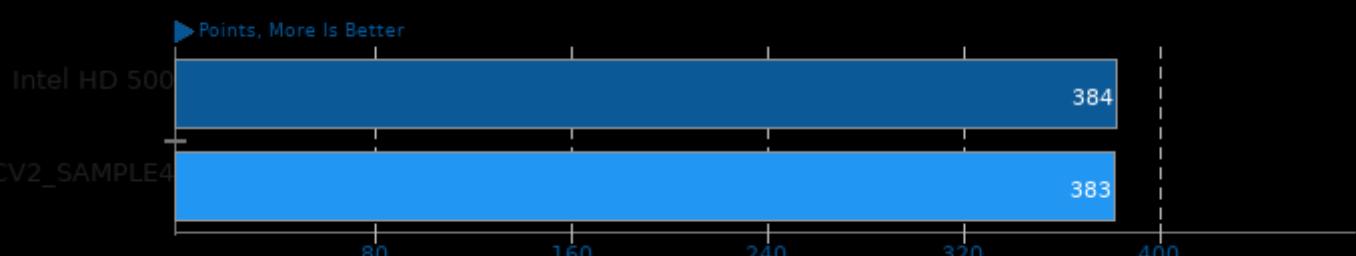
Test: Pixmark Volplosion - Resolution: 1024 x 768 - Mode: Fullscreen

**GpuTest 0.7.0**

Test: Pixmark Volplosion - Resolution: 1280 x 800 - Mode: Fullscreen

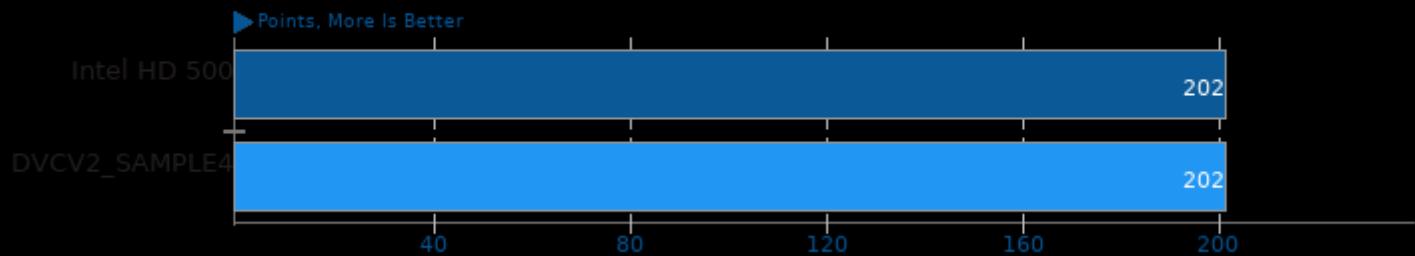
**GpuTest 0.7.0**

Test: Pixmark Volplosion - Resolution: 1440 x 480 - Mode: Fullscreen

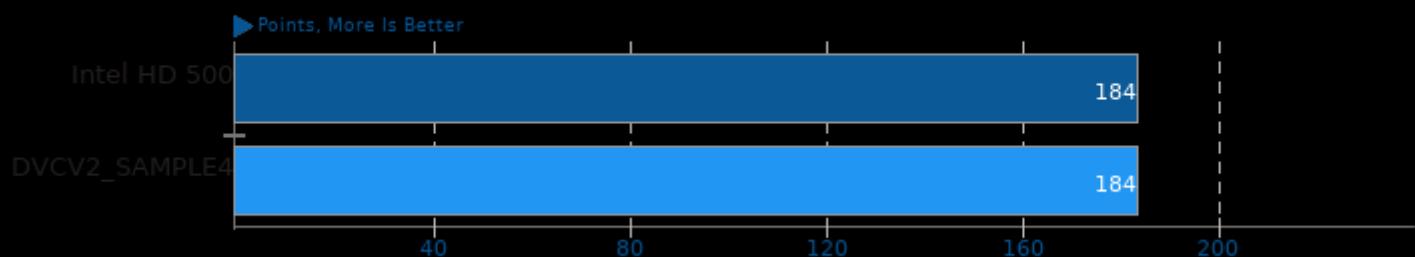


GpuTest 0.7.0

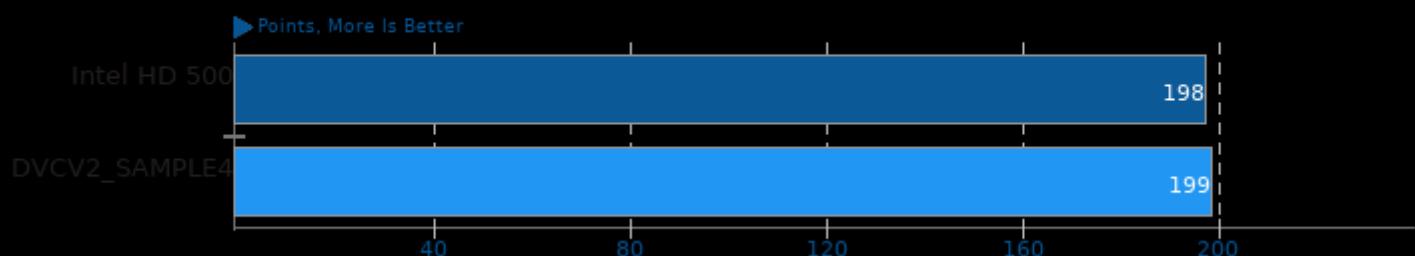
Test: Pixmark Volplosion - Resolution: 1440 x 900 - Mode: Fullscreen

**GpuTest 0.7.0**

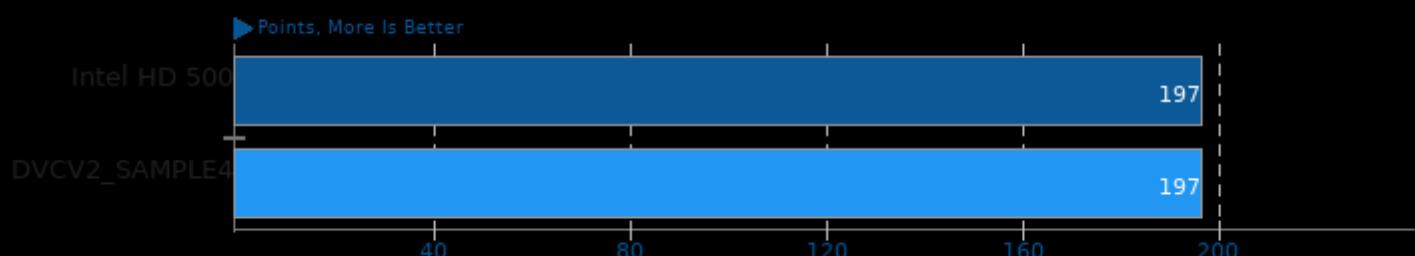
Test: Pixmark Volplosion - Resolution: 1600 x 900 - Mode: Fullscreen

**GpuTest 0.7.0**

Test: Pixmark Volplosion - Resolution: 2880 x 480 - Mode: Fullscreen

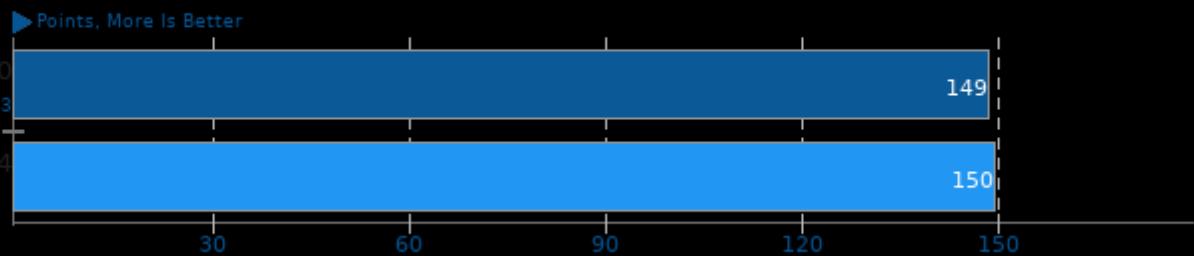
**GpuTest 0.7.0**

Test: Pixmark Volplosion - Resolution: 1280 x 1024 - Mode: Fullscreen

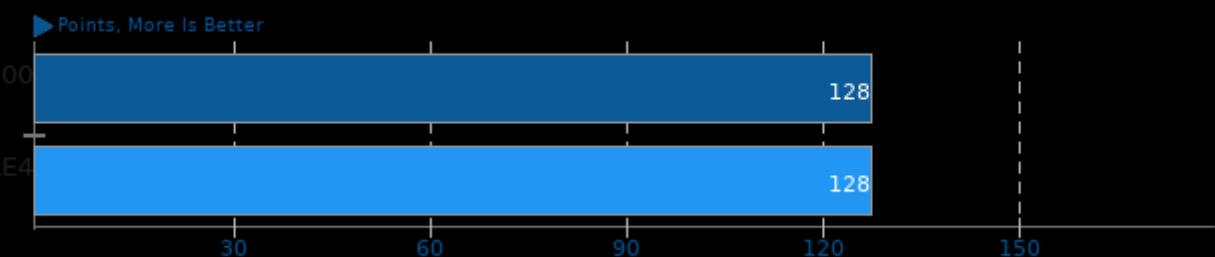


GpuTest 0.7.0

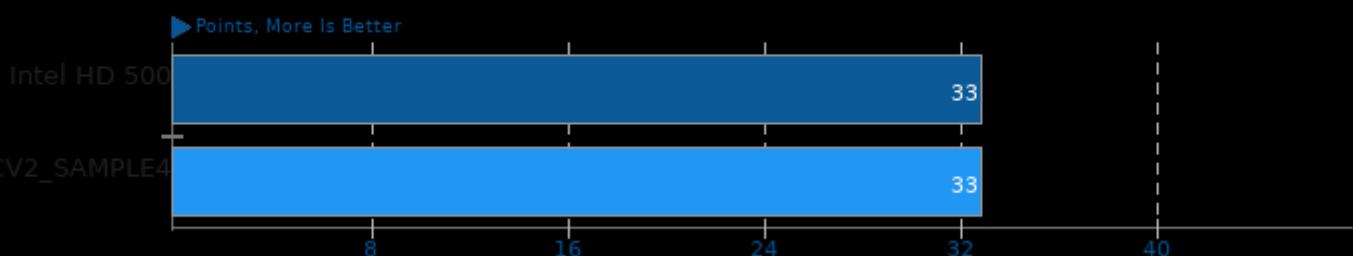
Test: Pixmark Volplosion - Resolution: 1680 x 1050 - Mode: Fullscreen

**GpuTest 0.7.0**

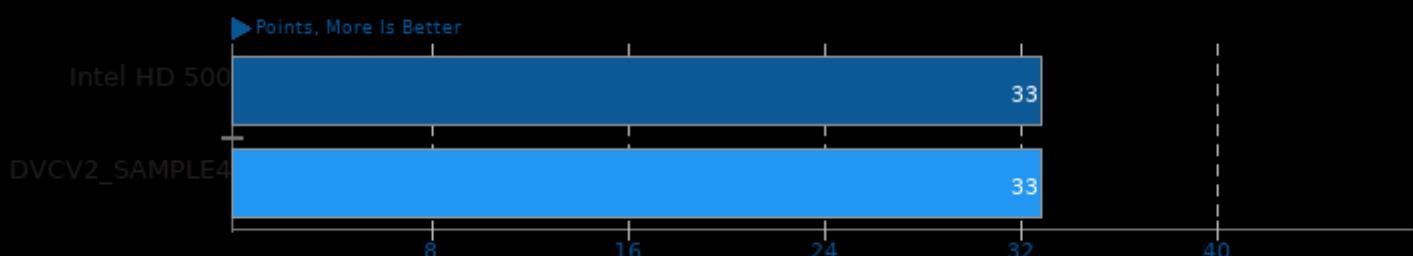
Test: Pixmark Volplosion - Resolution: 1920 x 1080 - Mode: Fullscreen

**GpuTest 0.7.0**

Test: Pixmark Volplosion - Resolution: 3840 x 2160 - Mode: Fullscreen

**GpuTest 0.7.0**

Test: Pixmark Volplosion - Resolution: 4096 x 2160 - Mode: Fullscreen



This file was automatically generated via the Phoronix Test Suite benchmarking software on Friday, 29 March 2024 11:15.