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ThiknPad T495s Gaming

AMD Ryzen 5 PRO 3500U w/ Radeon Vega Mobile Gfx testing with a LENOVO 20QJCTO1WW (R13ET27W1.01 BIOS) and AMD Picasso 2GB on Fedora 30 via the Phoronix Test Suite.

Test Systems:

ThinkPad T495s Gaming

Processor: AMD Ryzen 5 PRO 3500U w/ Radeon Vega Mobile Gfx @ 2.10GHz (4 Cores / 8 Threads), Motherboard: LENOVO 20QJCTO1WW (R13ET27W1.01 BIOS), Chipset: AMD Raven/Raven2, Memory: 14336MB, Disk: 256GB Western Digital PC SN720 SDAQNTW-256G-1001, Graphics: AMD Picasso 2GB (1200/1200MHz), Audio: AMD Raven/Raven2/Fenghuang, Network: Realtek RTL8111/8168/8411 + Intel-AC 9260

OS: Fedora 30, Kernel: 5.2.9-200.fc30.x86_64 (x86_64), Desktop: GNOME Shell 3.32.2, Display Server: X Server + Wayland, OpenGL: 4.5 Mesa 19.1.5 (LLVM 8.0.0), Vulkan: 1.1.90, Compiler: GCC 9.2.1 20190827, File-System: ext4, Screen Resolution: 1920x1080

Processor Notes: Scaling Governor: acpi-cpufreq performance
Security Notes: SELinux + usercopy/swapgs barriers and __user pointer sanitization + Full AMD retpoline IBPB: conditional STIBP: disabled RSB filling + SSB disabled via

prctl and seccomp

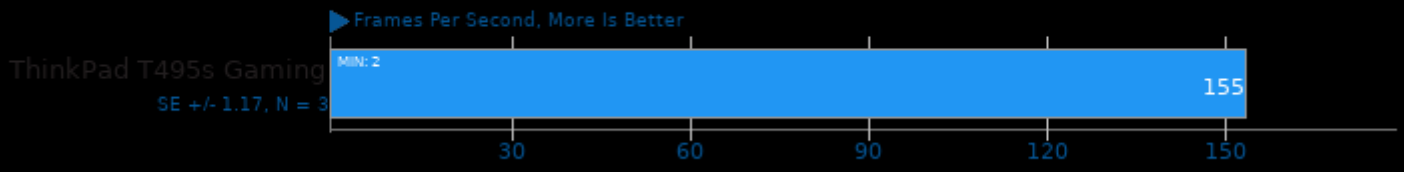
	ThinkPad T495s Gaming
OpenArena - 1024 x 768 (FPS)	155
Standard Deviation	1.3%
OpenArena - 1920 x 1080 (FPS)	101.93
Standard Deviation	0.8%
SuperTuxKart - 1920 x 1080 - Fullscreen - Ultimate - 1 - Old Mine	17.33
Standard Deviation	1.1%
SuperTuxKart - 1024 x 768 - Fullscreen - Ultimate - 1 - Candela City (FPS)	14.39
Standard Deviation	0.9%
SuperTuxKart - 1920 x 1080 - Fullscreen - Ultimate - 1 - Candela City (FPS)	14.46
Standard Deviation	1.7%
SuperTuxKart - 1024 x 768 - Fullscreen - Low - 1 - O.s.M.C (FPS)	39.86
Standard Deviation	43.6%
SuperTuxKart - 1920 x 1080 - Fullscreen - Low - 1 - O.s.M.C (FPS)	33.24
Standard Deviation	3.4%
SuperTuxKart - 1024 x 768 - Fullscreen - Ultimate - 1 - O.s.M.C	9.40
Standard Deviation	6.2%
SuperTuxKart - 1920 x 1080 - Fullscreen - Ultimate - 1 - O.s.M.C	18.38
Standard Deviation	1.2%
SuperTuxKart - 1024 x 768 - Fullscreen - Low - 1 - Old Mine (FPS)	40.10
Standard Deviation	1.2%
SuperTuxKart - 1920 x 1080 - Fullscreen - Low - 1 - Old Mine (FPS)	40.20
Standard Deviation	1.5%
SuperTuxKart - 1024 x 768 - Fullscreen - Low - 1 - Candela City	41.16
Standard Deviation	0.5%
SuperTuxKart - 1024 x 768 - Fullscreen - Ultimate - 1 - Old Mine	16.75
Standard Deviation	1.3%
SuperTuxKart - 1920 x 1080 - Fullscreen - Low - 1 - Candela City	21.44
Standard Deviation	20%
Tesseract - 1024 x 768 (FPS)	79.64
Standard Deviation	3.3%
Tesseract - 1920 x 1080 (FPS)	49.37
Standard Deviation	3.7%
Unigine Heaven - 1024 x 768 - Fullscreen - OpenGL (FPS)	9.51
Standard Deviation	36.4%
Unigine Heaven - 1920 x 1080 - Fullscreen - OpenGL (FPS)	6.05
Standard Deviation	1.1%
Unigine Superposition - 1024 x 768 - Fullscreen - Low - OpenGL	11.81
Standard Deviation	38.9%
Unigine Superposition - 1920 x 1080 - Fullscreen - Low - OpenGL	9.00
Standard Deviation	1.1%
Unigine Superposition - 1024 x 768 - Fullscreen - Ultra - OpenGL	1.30
Standard Deviation	0%

ThiknPad T495s Gaming

Unigine Superposition - 1024 x 768 - Fullscreen - Medium - OpenGL (FPS)	4.62
Standard Deviation	3.4%
Unigine Superposition - 1920 x 1080 - Fullscreen - Ultra - OpenGL (FPS)	1.30
Standard Deviation	0%
Unigine Superposition - 1920 x 1080 - Fullscreen - Medium - OpenGL (FPS)	4.40
Standard Deviation	0%
Unigine Valley - 1024 x 768 - Fullscreen - OpenGL (FPS)	5.56
Standard Deviation	1.1%
Unigine Valley - 1920 x 1080 - Fullscreen - OpenGL (FPS)	5.60
Standard Deviation	1.5%
Xonotic - 1024 x 768 - Low (FPS)	131
Standard Deviation	3.1%
Xonotic - 1920 x 1080 - Low (FPS)	133
Standard Deviation	2.3%
Xonotic - 1024 x 768 - Ultimate (FPS)	43.42
Standard Deviation	0.6%
Xonotic - 1920 x 1080 - Ultimate (FPS)	42.83
Standard Deviation	1.9%

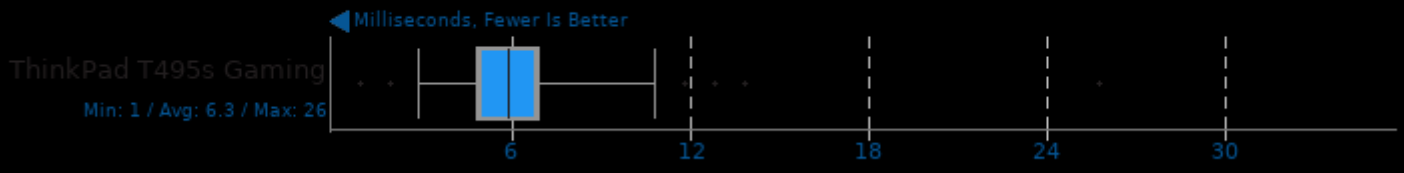
OpenArena 0.8.8

Resolution: 1024 x 768



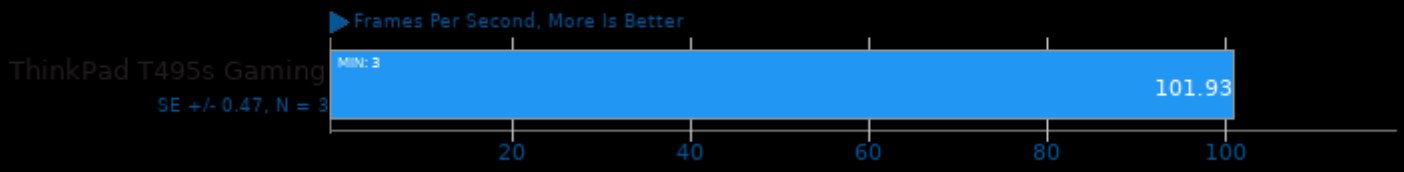
OpenArena 0.8.8

Resolution: 1024 x 768 - Total Frame Time



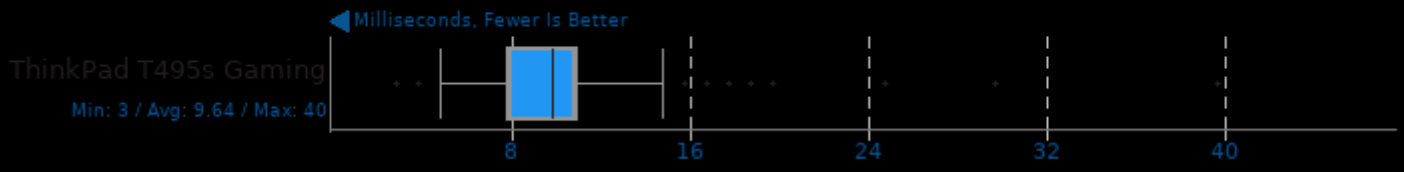
OpenArena 0.8.8

Resolution: 1920 x 1080



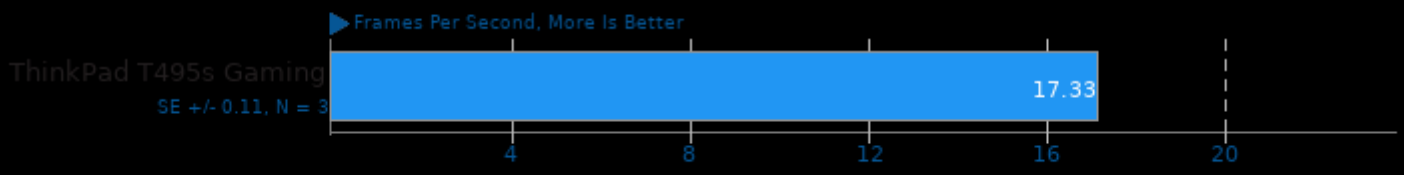
OpenArena 0.8.8

Resolution: 1920 x 1080 - Total Frame Time



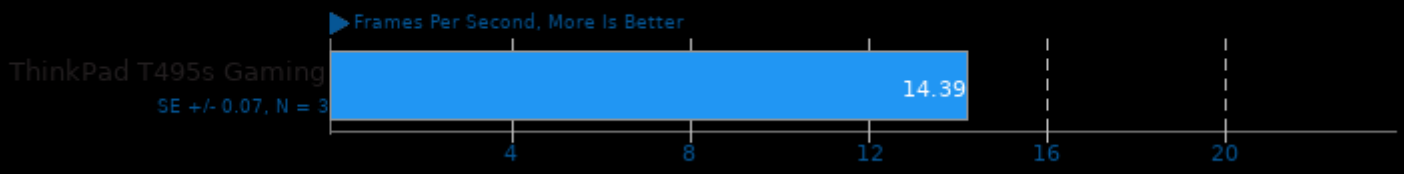
SuperTuxKart 0.9.3

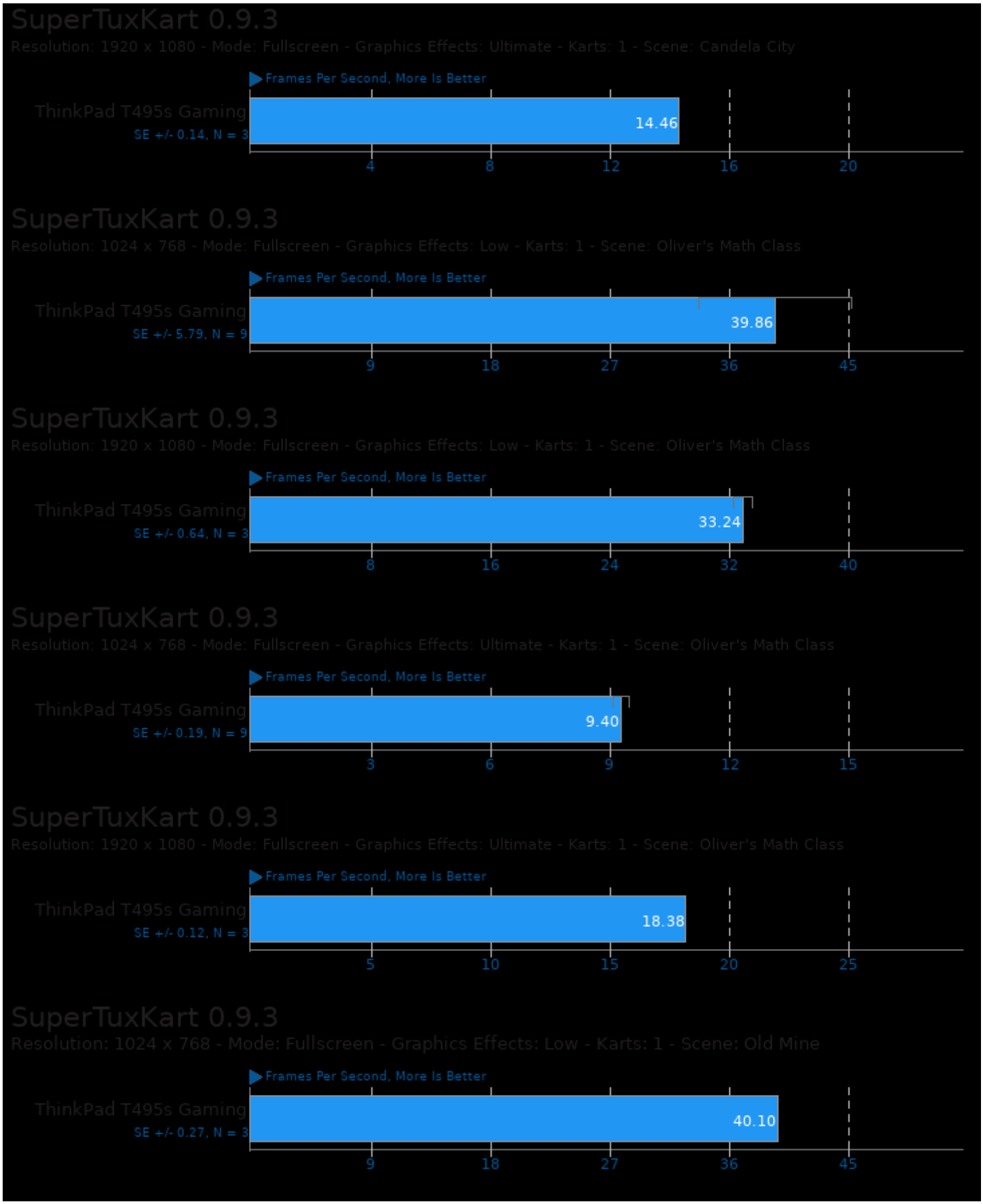
Resolution: 1920 x 1080 - Mode: Fullscreen - Graphics Effects: Ultimate - Karts: 1 - Scene: Old Mine

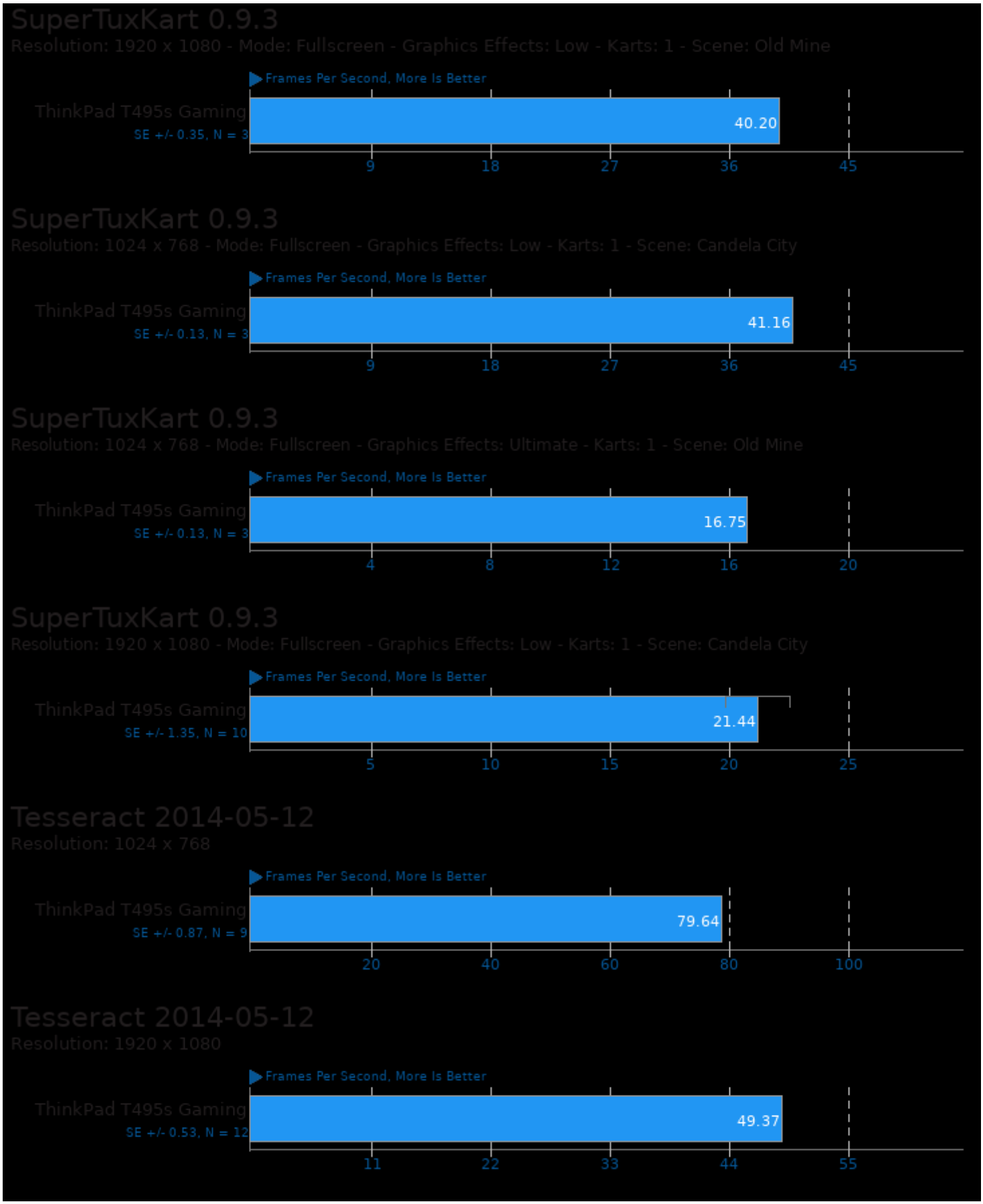


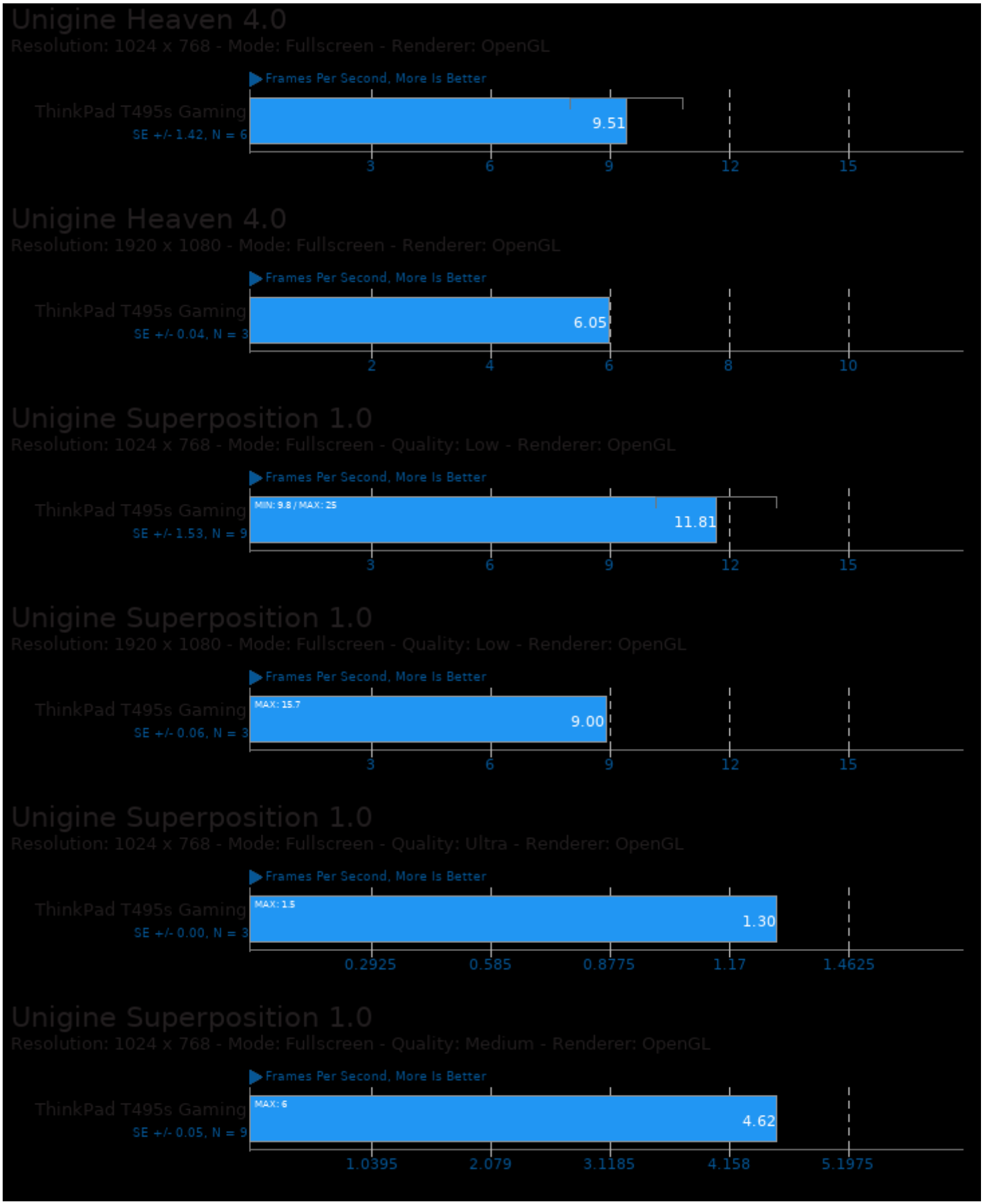
SuperTuxKart 0.9.3

Resolution: 1024 x 768 - Mode: Fullscreen - Graphics Effects: Ultimate - Karts: 1 - Scene: Candela City



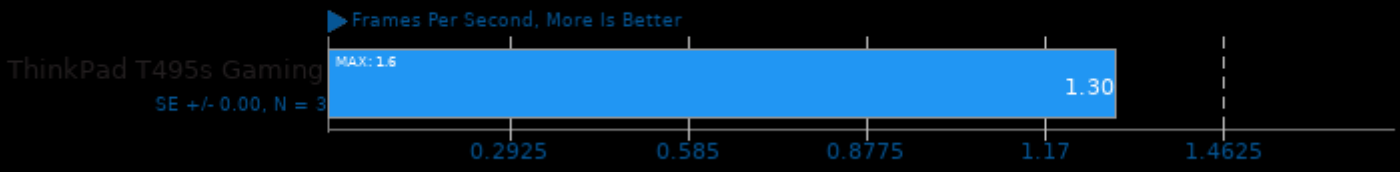

SuperTuxKart 0.9.3
Resolution: 1920 x 1080 - Mode: Fullscreen - Graphics Effects: Ultimate - Karts: 1 - Scene: Candela City
Frames Per Second, More Is Better
ThinkPad T495s Gaming
SE +/- 0.14, N = 3
14.46
4
8
12
16
20
SuperTuxKart 0.9.3
Resolution: 1024 x 768 - Mode: Fullscreen - Graphics Effects: Low - Karts: 1 - Scene: Oliver's Math Class
Frames Per Second, More Is Better
ThinkPad T495s Gaming
SE +/- 5.79, N = 9
39.86
9
18
27
36
45
SuperTuxKart 0.9.3
Resolution: 1920 x 1080 - Mode: Fullscreen - Graphics Effects: Low - Karts: 1 - Scene: Oliver's Math Class
Frames Per Second, More Is Better
ThinkPad T495s Gaming
SE +/- 0.64, N = 3
33.24
8
16
24
32
40
SuperTuxKart 0.9.3
Resolution: 1024 x 768 - Mode: Fullscreen - Graphics Effects: Ultimate - Karts: 1 - Scene: Oliver's Math Class
Frames Per Second, More Is Better
ThinkPad T495s Gaming
SE +/- 0.19, N = 9
9.40
3
6
9
12
15
SuperTuxKart 0.9.3
Resolution: 1920 x 1080 - Mode: Fullscreen - Graphics Effects: Ultimate - Karts: 1 - Scene: Oliver's Math Class
Frames Per Second, More Is Better
ThinkPad T495s Gaming
SE +/- 0.12, N = 3
18.38
5
10
15
20
25
SuperTuxKart 0.9.3
Resolution: 1024 x 768 - Mode: Fullscreen - Graphics Effects: Low - Karts: 1 - Scene: Old Mine
Frames Per Second, More Is Better
ThinkPad T495s Gaming
SE +/- 0.27, N = 3
40.10
9
18
27
36
45


SuperTuxKart 0.9.3
Resolution: 1920 x 1080 - Mode: Fullscreen - Graphics Effects: Low - Karts: 1 - Scene: Old Mine
Frames Per Second, More Is Better
ThinkPad T495s Gaming
SE +/- 0.35, N = 3
40.20
9
18
27
36
45
SuperTuxKart 0.9.3
Resolution: 1024 x 768 - Mode: Fullscreen - Graphics Effects: Low - Karts: 1 - Scene: Candela City
Frames Per Second, More Is Better
ThinkPad T495s Gaming
SE +/- 0.13, N = 3
41.16
9
18
27
36
45
SuperTuxKart 0.9.3
Resolution: 1024 x 768 - Mode: Fullscreen - Graphics Effects: Ultimate - Karts: 1 - Scene: Old Mine
Frames Per Second, More Is Better
ThinkPad T495s Gaming
SE +/- 0.13, N = 3
16.75
4
8
12
16
20
SuperTuxKart 0.9.3
Resolution: 1920 x 1080 - Mode: Fullscreen - Graphics Effects: Low - Karts: 1 - Scene: Candela City
Frames Per Second, More Is Better
ThinkPad T495s Gaming
SE +/- 1.35, N = 10
21.44
5
10
15
20
25
Tesseract 2014-05-12
Resolution: 1024 x 768
Frames Per Second, More Is Better
ThinkPad T495s Gaming
SE +/- 0.87, N = 9
79.64
20
40
60
80
100
Tesseract 2014-05-12
Resolution: 1920 x 1080
Frames Per Second, More Is Better
ThinkPad T495s Gaming
SE +/- 0.53, N = 12
49.37
11
22
33
44
55


Unigine Heaven 4.0
Resolution: 1024 x 768 - Mode: Fullscreen - Renderer: OpenGL
Frames Per Second, More Is Better
ThinkPad T495s Gaming
SE +/- 1.42, N = 6
9.51
3
6
9
12
15
Unigine Heaven 4.0
Resolution: 1920 x 1080 - Mode: Fullscreen - Renderer: OpenGL
Frames Per Second, More Is Better
ThinkPad T495s Gaming
SE +/- 0.04, N = 3
6.05
2
4
6
8
10
Unigine Superposition 1.0
Resolution: 1024 x 768 - Mode: Fullscreen - Quality: Low - Renderer: OpenGL
Frames Per Second, More Is Better
ThinkPad T495s Gaming
SE +/- 1.53, N = 9
MIN: 9.8 / MAX: 25
11.81
3
6
9
12
15
Unigine Superposition 1.0
Resolution: 1920 x 1080 - Mode: Fullscreen - Quality: Low - Renderer: OpenGL
Frames Per Second, More Is Better
ThinkPad T495s Gaming
SE +/- 0.06, N = 3
MAX: 15.7
9.00
3
6
9
12
15
Unigine Superposition 1.0
Resolution: 1024 x 768 - Mode: Fullscreen - Quality: Ultra - Renderer: OpenGL
Frames Per Second, More Is Better
ThinkPad T495s Gaming
SE +/- 0.00, N = 3
MAX: 1.5
1.30
0.2925
0.585
0.8775
1.17
1.4625
Unigine Superposition 1.0
Resolution: 1024 x 768 - Mode: Fullscreen - Quality: Medium - Renderer: OpenGL
Frames Per Second, More Is Better
ThinkPad T495s Gaming
SE +/- 0.05, N = 9
MAX: 6
4.62
1.0395
2.079
3.1185
4.158
5.1975

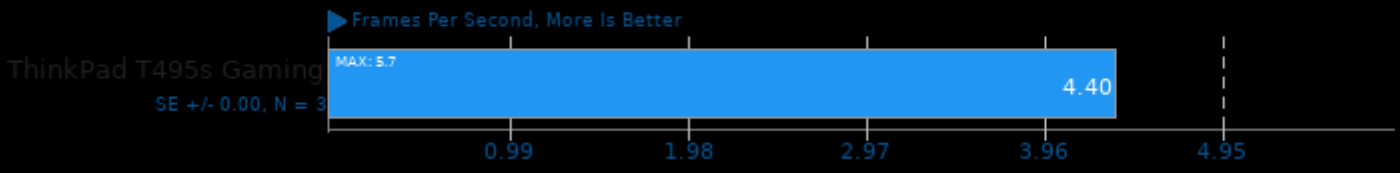
Unigine Superposition 1.0

Resolution: 1920 x 1080 - Mode: Fullscreen - Quality: Ultra - Renderer: OpenGL



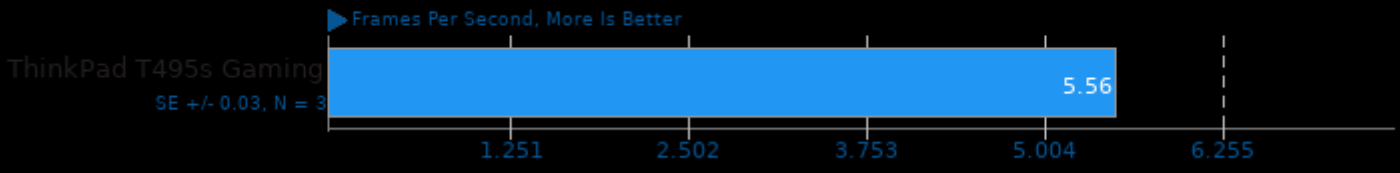
Unigine Superposition 1.0

Resolution: 1920 x 1080 - Mode: Fullscreen - Quality: Medium - Renderer: OpenGL



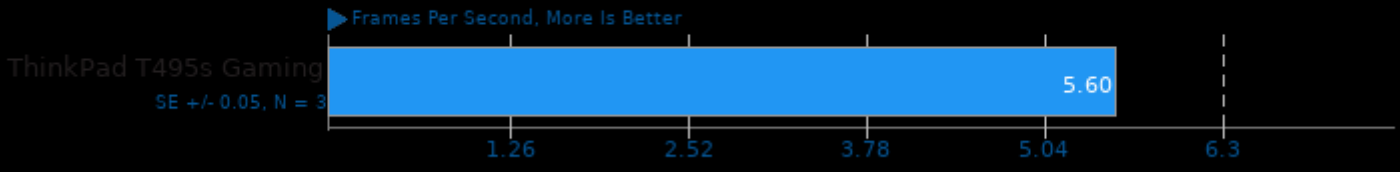
Unigine Valley 1.0

Resolution: 1024 x 768 - Mode: Fullscreen - Renderer: OpenGL



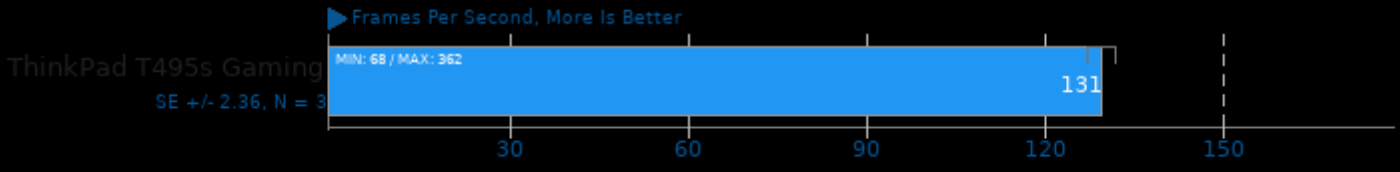
Unigine Valley 1.0

Resolution: 1920 x 1080 - Mode: Fullscreen - Renderer: OpenGL



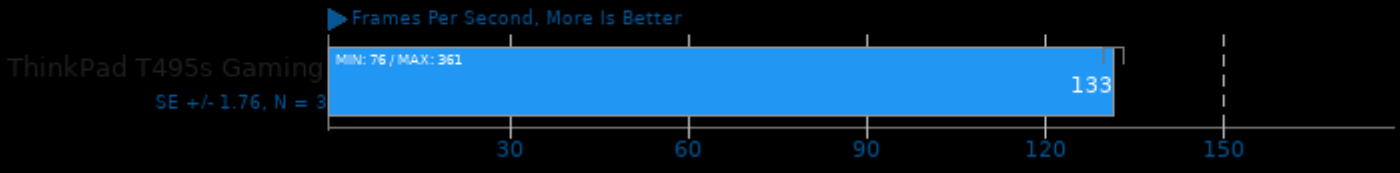
Xonotic 0.8.2

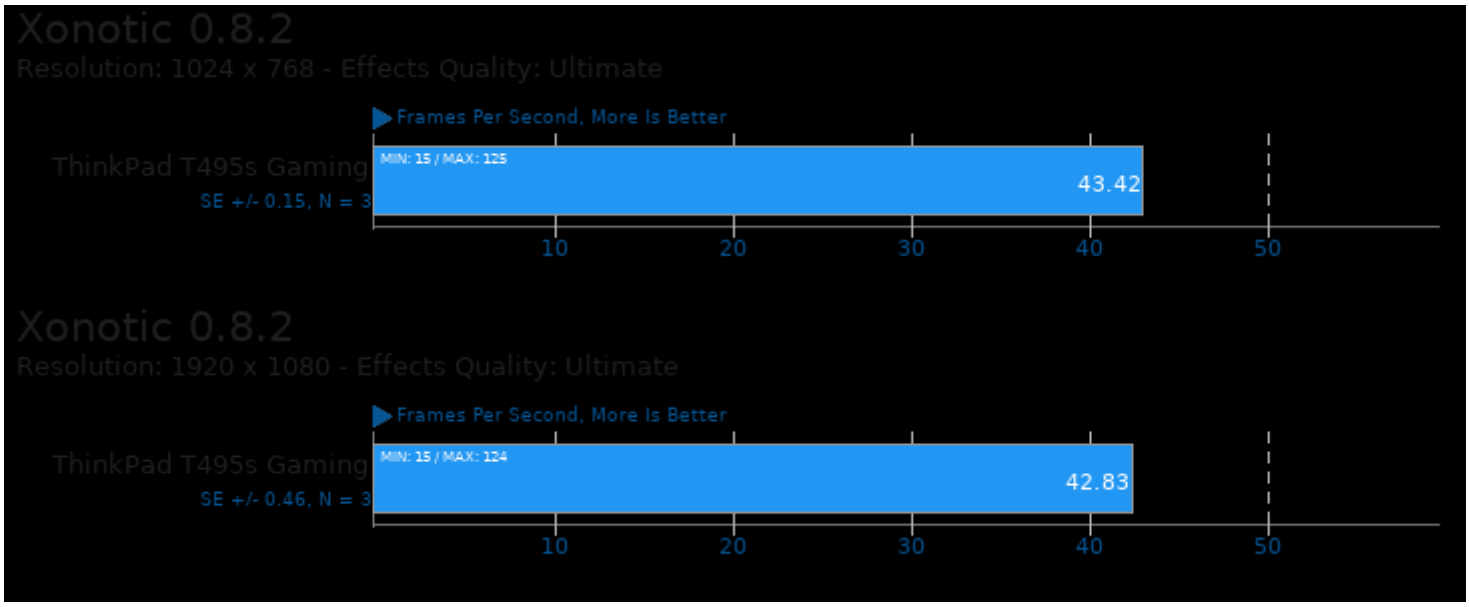
Resolution: 1024 x 768 - Effects Quality: Low



Xonotic 0.8.2

Resolution: 1920 x 1080 - Effects Quality: Low





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