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vulkan_big1open_garuda_vulkan_02

AMD Ryzen 7 5800X 8-Core testing with a ASRock B550 Phantom Gaming-ITX/ax (L1.61 BIOS) and Sapphire AMD Radeon RX 6800/6800 XT / 6900 16GB on Garuda Soaring via the Phoronix Test Suite.

Automated Executive Summary

bhz-big1blackchimney-salient-vulkan-01 had the most wins, coming in first place for 50% of the tests.

Based on the geometric mean of all complete results, the fastest (bhz-big1blackchimney-salient-vulkan-01) was 1.142x the speed of the slowest (bhz-big1open-garuda-vulkan-01). bhz-big1open-salient-vulkan-01 was 0.964x the speed of bhz-big1blackchimney-salient-vulkan-01, bhz-big1blackchimney-garudafanctl-vulkan-03 was 0.957x the speed of bhz-big1open-salient-vulkan-01, bhz-big1blackchimney-garudafanctl-vulkan-01 was 0.999x the speed of bhz-big1blackchimney-garudafanctl-vulkan-03, bhz-big1blackchimney-garudafanctl-vulkan-02 was 0.999x the speed of bhz-big1blackchimney-garudafanctl-vulkan-01, bhz-big1blackchimney-garuda-vulkan-01 was 0.968x the speed of bhz-big1blackchimney-garudafanctl-vulkan-02, bhz-big1closedfoam-garuda-vulkan-01 was 0.999x the speed of bhz-big1blackchimney-garuda-vulkan-01, bhz-big1open-garuda-vulkan-01 was 0.984x the speed of bhz-big1closedfoam-garuda-vulkan-01.

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

GL-vs-VK (Test: Static Scene - API: Vulkan - Multi-Threaded: No) at 2.925x
GL-vs-VK (Test: Static Scene - API: Vulkan - Multi-Threaded: No) at 2.924x

GL-vs-VK (Test: Static Scene - API: OpenGL - Multi-Threaded: Yes) at 2.209x
GL-vs-VK (Test: Static Scene - API: OpenGL - Multi-Threaded: Yes) at 2.208x
GL-vs-VK (Test: Static Scene - API: Vulkan - Multi-Threaded: Yes) at 1.682x
GL-vs-VK (Test: Static Scene - API: Vulkan - Multi-Threaded: Yes) at 1.681x
VKMark (Resolution: 1920 x 1080) at 1.67x
GL-vs-VK (Test: Static Scene - API: OpenGL - Multi-Threaded: No) at 1.501x
GL-vs-VK (Test: Static Scene - API: OpenGL - Multi-Threaded: No) at 1.501x
Tesseract (Resolution: 1920 x 1080) at 1.342x.

Test Systems:

bhz-big1open-garuda-vulkan-01

Processor: AMD Ryzen 7 5800X 8-Core @ 3.80GHz (8 Cores / 16 Threads), Motherboard: ASRock B550 Phantom Gaming-ITX/ax (L1.61 BIOS), Chipset: AMD Starship/Matisse, Memory: 32GB, Disk: 1000GB Corsair Force MP600, Graphics: Sapphire AMD Radeon RX 6800/6800 XT / 6900 16GB (2475/1000MHz), Audio: AMD Device ab28, Monitor: VG279QM, Network: Intel I225-V + Intel Wi-Fi 6 AX200

OS: Garuda Soaring, Kernel: 5.11.16-zen1-1-zen (x86_64), Desktop: Xfce 4.16, Display Server: X Server 1.20.11, OpenGL: 4.6 Mesa 21.0.3 (LLVM 11.1.0), Vulkan: 1.2.145, Compiler: GCC 10.2.0 + Clang 11.1.0, File-System: btrfs, Screen Resolution: 1920x1080

Kernel Notes: Transparent Huge Pages: always
Compiler Notes: --disable-libssp --disable-libstdcxx-pch --disable-libunwind-exceptions --disable-werror --enable-__cxa_atexit --enable-cet=auto --enable-checking=release --enable-clocale=gnu --enable-default-pie --enable-default-ssp --enable-gnu-indirect-function --enable-gnu-unique-object --enable-install-libiberty --enable-languages=c,c++,ada,fortran,go,lto,objc,obj-c++,d --enable-lto --enable-multilib --enable-plugin --enable-shared --enable-threads=posix --mandir=/usr/share/man --with-isl --with-linker-hash-style=gnu
Processor Notes: Scaling Governor: acpi-cpufreq performance (Boost: Enabled) - CPU Microcode: 0xa201009
Graphics Notes: GLAMOR
Security Notes: itlb_multihit: Not affected + l1tf: Not affected + mds: Not affected + meltdown: Not affected + spec_store_bypass: Mitigation of SSB disabled via prctl and seccomp + spectre_v1: Mitigation of usercopy/swapgs barriers and __user pointer sanitization + spectre_v2: Mitigation of Full AMD retpoline IBPB: conditional IBRS_FW STIBP: always-on RSB filling + srbds: Not affected + tsx_async_abort: Not affected

bhz-big1open-salient-vulkan-01

Processor: AMD Ryzen 7 5800X 8-Core @ 3.80GHz (8 Cores / 16 Threads), Motherboard: ASRock B550 Phantom Gaming-ITX/ax (L1.61 BIOS), Chipset: AMD Starship/Matisse, Memory: 32GB, Disk: 1000GB Corsair Force MP600, Graphics: Sapphire AMD Radeon RX 6800/6800 XT / 6900 16GB (2475/1000MHz), Audio: AMD Device ab28, Monitor: VG279QM, Network: Intel I225-V + Intel Wi-Fi 6 AX200

OS: salientos rolling, Kernel: 5.11.13-arch1-1 (x86_64), Desktop: Xfce 4.16, Display Server: X Server 1.20.11, OpenGL: 4.6 Mesa 21.0.2 (LLVM 11.1.0), Vulkan: 1.2.173, Compiler: GCC 10.2.0 + Clang 11.1.0, File-System: ext4, Screen Resolution: 1920x1080

Kernel Notes: Transparent Huge Pages: madvise
Compiler Notes: --disable-libssp --disable-libstdcxx-pch --disable-libunwind-exceptions --disable-werror --enable-__cxa_atexit --enable-cet=auto --enable-checking=release --enable-clocale=gnu --enable-default-pie --enable-default-ssp --enable-gnu-indirect-function --enable-gnu-unique-object --enable-install-libiberty --enable-languages=c,c++,ada,fortran,go,lto,objc,obj-c++,d --enable-lto --enable-multilib --enable-plugin --enable-shared --enable-threads=posix --mandir=/usr/share/man --with-isl --with-linker-hash-style=gnu
Processor Notes: Scaling Governor: acpi-cpufreq schedutil (Boost: Enabled) - CPU Microcode: 0xa201009
Security Notes: itlb_multihit: Not affected + l1tf: Not affected + mds: Not affected + meltdown: Not affected + spec_store_bypass: Mitigation of SSB disabled via prctl and seccomp + spectre_v1: Mitigation of usercopy/swapgs barriers and __user pointer sanitization + spectre_v2: Mitigation of Full AMD retpoline IBPB: conditional IBRS_FW STIBP: always-on RSB filling + srbds: Not affected + tsx_async_abort: Not affected

bhz-big1closedfoam-garuda-vulkan-01

bhz-big1blackchimney-garuda-vulkan-01

Processor: AMD Ryzen 7 5800X 8-Core @ 3.80GHz (8 Cores / 16 Threads), Motherboard: ASRock B550 Phantom Gaming-ITX/ax (L1.61 BIOS), Chipset: AMD Starship/Matisse, Memory: 32GB, Disk: 1000GB Corsair Force MP600, Graphics: Sapphire AMD Radeon RX 6800/6800 XT / 6900 16GB (2475/1000MHz), Audio: AMD Device ab28, Monitor: VG279QM, Network: Intel I225-V + Intel Wi-Fi 6 AX200

OS: Garuda Soaring, Kernel: 5.11.16-zen1-1-zen (x86_64), Desktop: Xfce 4.16, Display Server: X Server 1.20.11, OpenGL: 4.6 Mesa 21.0.3 (LLVM 11.1.0), Vulkan: 1.2.145, Compiler: GCC 10.2.0 + Clang 11.1.0, File-System: btrfs, Screen Resolution: 1920x1080

Kernel Notes: Transparent Huge Pages: always
Compiler Notes: --disable-libssp --disable-libstdcxx-pch --disable-libunwind-exceptions --disable-werror --enable-__cxa_atexit --enable-cet=auto --enable-checking=release --enable-clocale=gnu --enable-default-pie --enable-default-ssp --enable-gnu-indirect-function --enable-gnu-unique-object --enable-install-libiberty --enable-languages=c,c++,ada,fortran,go,lto,objc,obj-c++,d --enable-lto --enable-multilib --enable-plugin --enable-shared --enable-threads=posix --mandir=/usr/share/man --with-isl --with-linker-hash-style=gnu
Processor Notes: Scaling Governor: acpi-cpufreq performance (Boost: Enabled) - CPU Microcode: 0xa201009
Graphics Notes: GLAMOR
Security Notes: itlb_multihit: Not affected + l1tf: Not affected + mds: Not affected + meltdown: Not affected + spec_store_bypass: Mitigation of SSB disabled via prctl and seccomp + spectre_v1: Mitigation of usercopy/swapgs barriers and __user pointer sanitization + spectre_v2: Mitigation of Full AMD retpoline IBPB: conditional IBRS_FW STIBP: always-on RSB filling + srbds: Not affected + tsx_async_abort: Not affected

bhz-big1blackchimney-salient-vulkan-01

Processor: AMD Ryzen 7 5800X 8-Core @ 3.80GHz (8 Cores / 16 Threads), Motherboard: ASRock B550 Phantom Gaming-ITX/ax (L1.61 BIOS), Chipset: AMD Starship/Matisse, Memory: 32GB, Disk: 1000GB Corsair Force MP600, Graphics: Sapphire AMD Radeon RX 6800/6800 XT / 6900 16GB (2475/1000MHz), Audio: AMD Device ab28, Monitor: VG279QM, Network: Intel I225-V + Intel Wi-Fi 6 AX200

OS: salientos rolling, Kernel: 5.11.13-arch1-1 (x86_64), Desktop: Xfce 4.16, Display Server: X Server 1.20.11, OpenGL: 4.6 Mesa 21.0.2 (LLVM 11.1.0), Vulkan: 1.2.173, Compiler: GCC 10.2.0 + Clang 11.1.0, File-System: ext4, Screen Resolution: 1920x1080

Kernel Notes: Transparent Huge Pages: madvise
Compiler Notes: --disable-libssp --disable-libstdcxx-pch --disable-libunwind-exceptions --disable-werror --enable-__cxa_atexit --enable-cet=auto --enable-checking=release --enable-clocale=gnu --enable-default-pie --enable-default-ssp --enable-gnu-indirect-function --enable-gnu-unique-object --enable-install-libiberty --enable-languages=c,c++,ada,fortran,go,lto,objc,obj-c++,d --enable-lto --enable-multilib --enable-plugin --enable-shared --enable-threads=posix --mandir=/usr/share/man --with-isl --with-linker-hash-style=gnu
Processor Notes: Scaling Governor: acpi-cpufreq schedutil (Boost: Enabled) - CPU Microcode: 0xa201009
Security Notes: itlb_multihit: Not affected + l1tf: Not affected + mds: Not affected + meltdown: Not affected + spec_store_bypass: Mitigation of SSB disabled via prctl and seccomp + spectre_v1: Mitigation of usercopy/swapgs barriers and __user pointer sanitization + spectre_v2: Mitigation of Full AMD retpoline IBPB: conditional IBRS_FW STIBP: always-on RSB filling + srbds: Not affected + tsx_async_abort: Not affected

bhz-big1blackchimney-garudafanctl-vulkan-01

bhz-big1blackchimney-garudafanctl-vulkan-02

bhz-big1blackchimney-garudafanctl-vulkan-03

Processor: AMD Ryzen 7 5800X 8-Core @ 3.80GHz (8 Cores / 16 Threads), Motherboard: ASRock B550 Phantom Gaming-ITX/ax (L1.61 BIOS), Chipset: AMD Starship/Matisse, Memory: 32GB, Disk: 1000GB Corsair Force MP600, Graphics: Sapphire AMD Radeon RX 6800/6800 XT / 6900 16GB (2475/1000MHz), Audio: AMD Device ab28, Monitor: VG279QM, Network: Intel I225-V + Intel Wi-Fi 6 AX200

OS: Garuda Soaring, Kernel: 5.12.3-zen1-1-zen (x86_64), Desktop: Xfce 4.16, Display Server: X Server 1.20.11, OpenGL: 4.6 Mesa 21.1.0 (LLVM 11.1.0), Vulkan: 1.2.168, Compiler: GCC 10.2.0 + Clang 11.1.0, File-System: btrfs,

vulkan_big1open_garuda_vulkan_02

Screen Resolution: 1920x1080

Kernel Notes: Transparent Huge Pages: always
Compiler Notes: --disable-libssp --disable-libstdcxx-pch --disable-libunwind-exceptions --disable-werror --enable-__cxa_atexit --enable-cet=auto --enable-checking=release --enable-clocale=gnu --enable-default-pie --enable-default-ssp --enable-gnu-indirect-function --enable-gnu-unique-object --enable-install-libiberty --enable-languages=c,c++,ada,fortran,go,lto,objc,obj-c++,d --enable-lto --enable-multilib --enable-plugin --enable-shared --enable-threads=posix --mandir=/usr/share/man --with-isl --with-linker-hash-style=gnu
Processor Notes: Scaling Governor: acpi-cpufreq performance (Boost: Enabled) - CPU Microcode: 0xa201009
Graphics Notes: GLAMOR
Security Notes: itlb_multihit: Not affected + l1tf: Not affected + mds: Not affected + meltdown: Not affected + spec_store_bypass: Mitigation of SSB disabled via prctl and seccomp + spectre_v1: Mitigation of usercopy/swapgs barriers and __user pointer sanitization + spectre_v2: Mitigation of Full AMD retpoline IBPB: conditional IBRS_FW STIBP: always-on RSB filling + srbds: Not affected + tsx_async_abort: Not affected

	bhz-big1open-garuda-vulkan-01	bhz-big1open-salient-vulkan-01	bhz-big1closedfoam-garuda-vulkan-01	bhz-big1blackchimney-garuda-vulkan-01	bhz-big1blackchimney-salient-vulkan-01	bhz-big1blackchimney-garudafanctl-vulkan	bhz-big1blackchimney-garudafanctl-vulkan	bhz-big1blackchimney-garudafanctl-vulkan
Dota 2 - 1920 x 1080 - OpenGL (FPS)	159.1	152.9	160.5	**161.8**	**149.1**			
Normalized	98.33%	94.5%	99.2%	100%	92.15%			
Standard Deviation	2.5%	2%	0.8%	0.1%	2.4%			
Dota 2 - 1920 x 1080 - Vulkan (FPS)	139.6	127.1	138.7	**139.7**	**120.9**			
Normalized	99.93%	90.98%	99.28%	100%	86.54%			
Standard Deviation	1.3%	2.4%	0.9%	1.3%	3.9%			
GL-vs-VK - Static Scene - OpenGL - Yes (Frame Time - ms)	128.883057	130.383750	**131.642835**	128.022348	129.351902	**59.600701**	59.740285	60.344936
Normalized	46.24%	45.71%	45.27%	46.55%	46.08%	100%	99.77%	98.77%
Standard Deviation	1.4%	0.2%	1.7%	0.4%	0.5%	0.4%	2.4%	0.7%
GL-vs-VK - Static Scene - OpenGL - Yes	7.759954	7.669684	**7.597841**	7.811210	7.730991	**16.778528**	16.746649	16.571926
Normalized	46.25%	45.71%	45.28%	46.55%	46.08%	100%	99.81%	98.77%
Standard Deviation	1.4%	0.2%	1.7%	0.4%	0.5%	0.4%	2.5%	0.7%
GL-vs-VK - Static Scene - OpenGL - No (Frame Time - ms)	201.425649	**202.569308**	186.618913	198.159378	185.719717	136.366654	135.162112	**134.931126**
Normalized	66.99%	66.61%	72.3%	68.09%	72.65%	98.95%	99.83%	100%
Standard Deviation	0.3%	1.5%	0.5%	0.1%	0.3%	0.5%	0.4%	0.8%
GL-vs-VK - Static Scene - OpenGL - No	4.964646	**4.937316**	5.358611	5.046449	5.384490	7.333271	7.398600	**7.411535**
Normalized	66.99%	66.62%	72.3%	68.09%	72.65%	98.94%	99.83%	100%
Standard Deviation	0.3%	1.5%	0.5%	0.1%	0.3%	0.5%	0.4%	0.8%
GL-vs-VK - Static Scene - Vulkan - Yes (Frame Time - ms)	11.473405	9.302870	12.063983	11.999321	**9.179134**	**15.443487**	15.436850	15.347093
Normalized	80%	98.67%	76.09%	76.5%	100%	59.44%	59.46%	59.81%
Standard Deviation	0%	0.1%	2.4%	2%	0.1%	3.2%	3%	2.5%
GL-vs-VK - Static Scene - Vulkan - Yes	87.158102	107.493818	82.923693	83.361444	**108.942812**	**64.812093**	64.832496	65.192825
Normalized	80%	98.67%	76.12%	76.52%	100%	59.49%	59.51%	59.84%

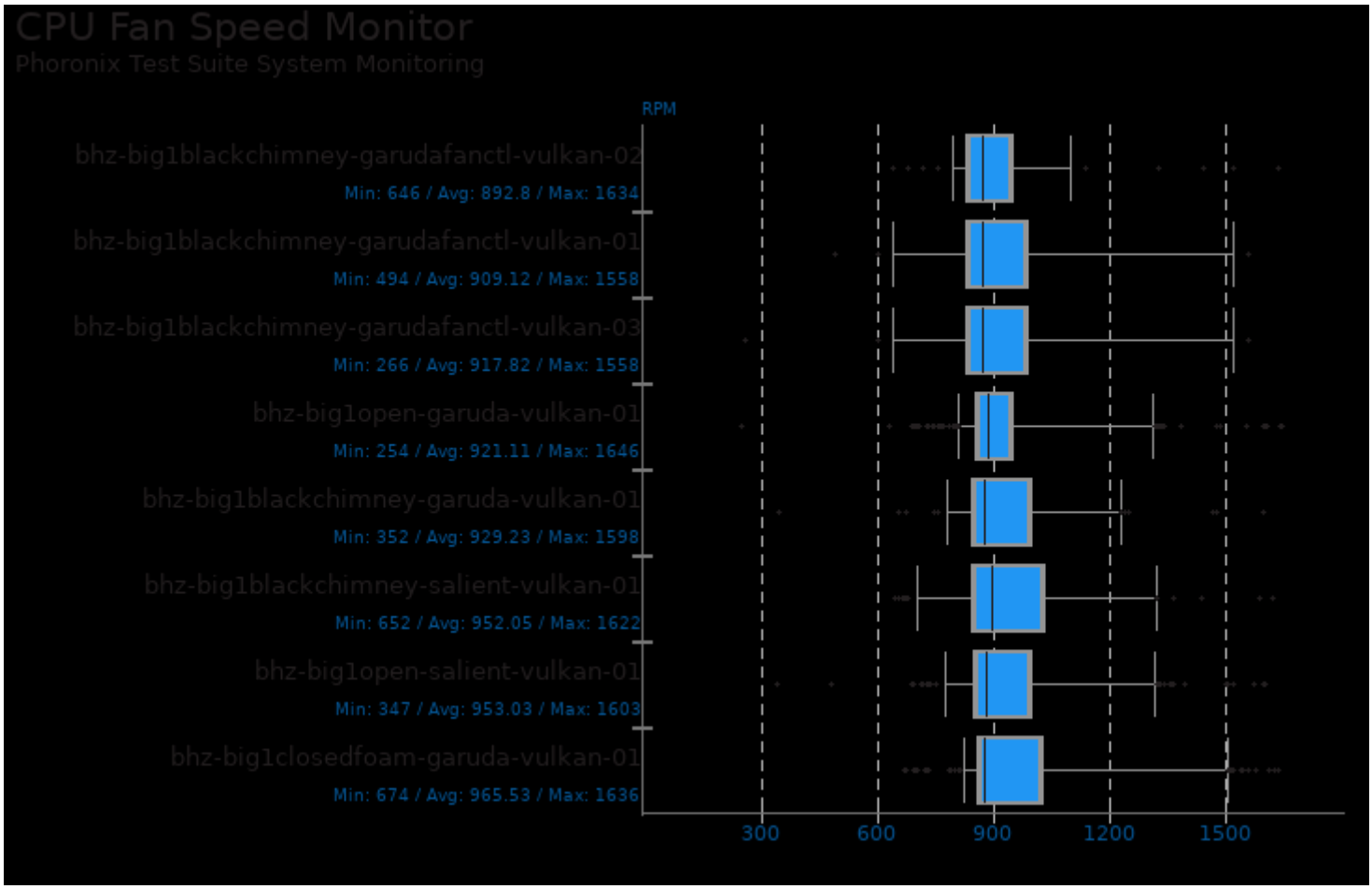
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Standard Deviation	0%	0.1%	2.4%	2.1%	0.1%	3.1%	2.9%	2.4%
GL-vs-VK - Static Scene - Vulkan - No (Frame Time - ms)	126.867952	91.196798	111.149612	120.528570	**76.708517**	**224.342914**	222.184205	220.934083
Normalized	60.46%	84.11%	69.01%	63.64%	100%	34.19%	34.52%	34.72%
Standard Deviation	0.5%	0.4%	0.6%	0.9%	0.2%	1.2%	0.8%	0.1%
GL-vs-VK - Static Scene - Vulkan - No	7.882351	10.965403	8.997093	8.297228	**13.036388**	**4.457862**	4.500961	4.526239
Normalized	60.46%	84.11%	69.02%	63.65%	100%	34.2%	34.53%	34.72%
Standard Deviation	0.5%	0.4%	0.6%	0.9%	0.2%	1.2%	0.8%	0.1%
GL-vs-VK - T.W.D.L - OpenGL - No (Frame Time - ms)	15.907487	**15.976017**	15.743954	15.613349	15.513142	**14.520351**	14.991966	15.020802
Normalized	91.28%	90.89%	92.23%	93%	93.6%	100%	96.85%	96.67%
Standard Deviation	1.4%	1.5%	0.3%	2.2%	2.5%	0.7%	1.4%	1.1%
GL-vs-VK - T.W.D.L - OpenGL - No (FPS)	62.871263	**62.602624**	63.516917	64.068932	64.496392	**68.871275**	66.711712	66.580029
Normalized	91.29%	90.9%	92.23%	93.03%	93.65%	100%	96.86%	96.67%
Standard Deviation	1.4%	1.4%	0.3%	2.2%	2.4%	0.7%	1.5%	1.1%
GL-vs-VK - T.W.D.L - Vulkan - Yes (Frame Time - ms)	**10.353913**	10.197815	10.282598	10.135736	**9.755092**	10.143085	10.169692	10.156581
Normalized	94.22%	95.66%	94.87%	96.24%	100%	96.17%	95.92%	96.05%
Standard Deviation	0.8%	0.2%	0.1%	0.2%	0.3%	0.4%	0.2%	0.1%
GL-vs-VK - T.W.D.L - Vulkan - Yes (FPS)	**96.586412**	98.060423	97.251740	98.660996	**102.511142**	98.590561	98.331695	98.458453
Normalized	94.22%	95.66%	94.87%	96.24%	100%	96.18%	95.92%	96.05%
Standard Deviation	0.8%	0.2%	0.1%	0.2%	0.3%	0.4%	0.2%	0.1%
GL-vs-VK - T.W.D.L - Vulkan - No (Frame Time - ms)	**15.802884**	15.701945	15.647674	15.331083	**14.900800**	15.468864	15.678591	15.470724
Normalized	94.29%	94.9%	95.23%	97.19%	100%	96.33%	95.04%	96.32%
Standard Deviation	0.1%	1.3%	0.1%	1.1%	0.4%	0.7%	2.3%	0.5%
GL-vs-VK - T.W.D.L - Vulkan - No (FPS)	**63.279649**	63.693333	63.907283	65.231896	**67.111389**	64.648278	63.803064	64.639344
Normalized	94.29%	94.91%	95.23%	97.2%	100%	96.33%	95.07%	96.32%
Standard Deviation	0.1%	1.3%	0.1%	1.1%	0.4%	0.7%	2.3%	0.5%
GL-vs-VK - Shadow Mapping - OpenGL - No (Frame Time - ms)	5.126311	5.101914	**5.177919**	5.067493	5.092729	4.345216	4.346767	**4.327931**
Normalized	84.43%	84.83%	83.58%	85.41%	84.98%	99.6%	99.57%	100%
Standard Deviation	0.4%	1.2%	0.9%	0.2%	2%	0.7%	1.4%	1%
GL-vs-VK - Shadow Mapping - OpenGL - No (FPS)	195.073793	196.024189	**193.138249**	197.336866	196.411479	230.145708	230.086470	**231.072085**
Normalized	84.42%	84.83%	83.58%	85.4%	85%	99.6%	99.57%	100%
Standard Deviation	0.4%	1.2%	0.9%	0.2%	2%	0.7%	1.4%	1%
GL-vs-VK - Shadow Mapping - Vulkan - Yes (Frame Time - ms)	0.695025	0.584327	0.680792	0.666404	**0.582515**	0.724908	0.723983	**0.725437**
Normalized	83.81%	99.69%	85.56%	87.41%	100%	80.36%	80.46%	80.3%
Standard Deviation	4.8%	0.1%	1.7%	1.4%	0.1%	2.6%	4.7%	4.2%

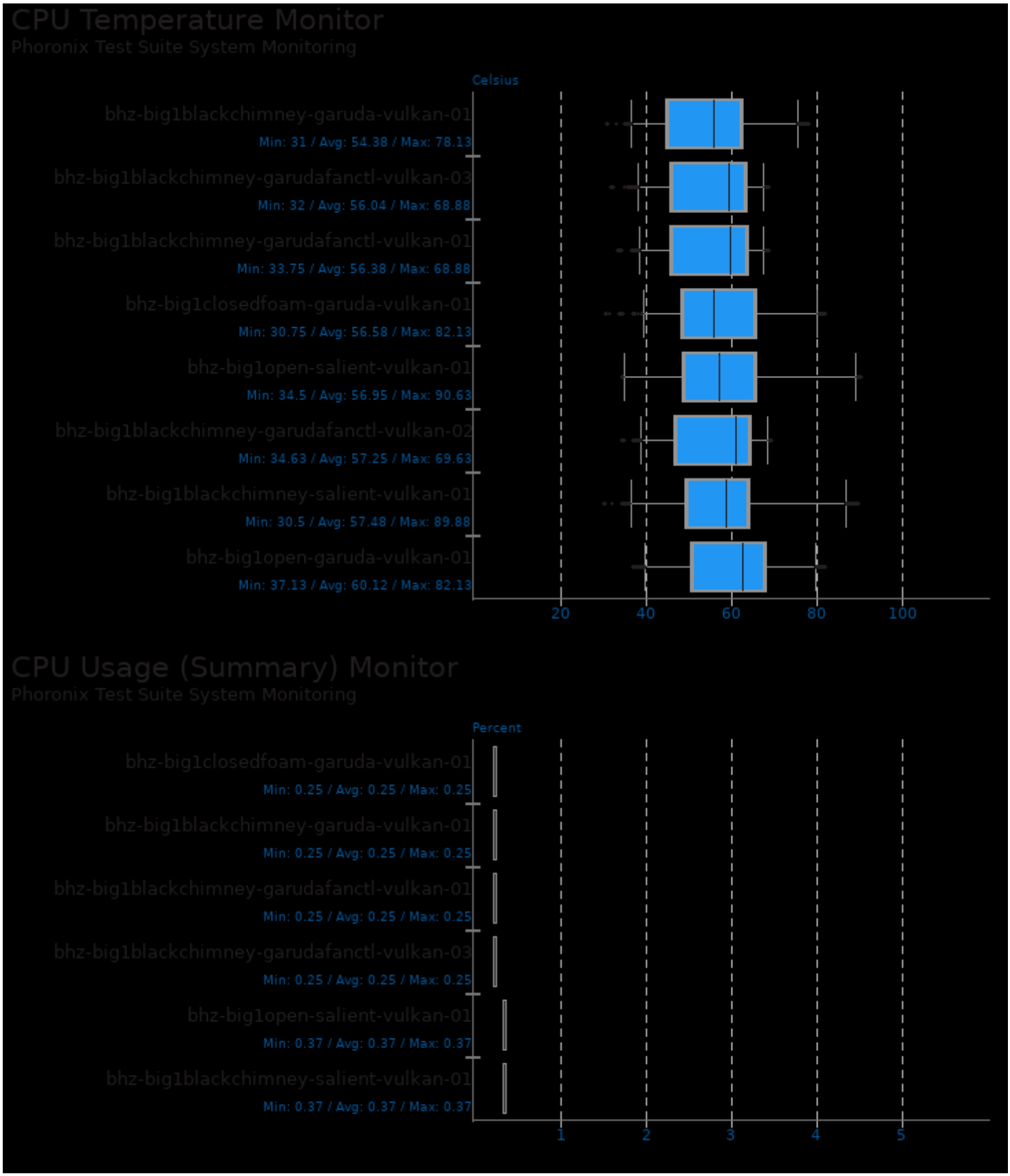
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GL-vs-VK - Shadow Mapping - Vulkan - Yes (FPS)	1442	1711	1469	1501	**1717**	**1380**	1384	1381
Normalized	83.99%	99.69%	85.58%	87.42%	100%	80.4%	80.62%	80.43%
Standard Deviation	4.8%	0.1%	1.7%	1.4%	0.1%	2.4%	4.6%	4.1%
GL-vs-VK - Shadow Mapping - Vulkan - No (Frame Time - ms)	3.080562	2.824682	3.090296	3.015702	**2.813564**	**3.499479**	3.463909	3.457103
Normalized	91.33%	99.61%	91.05%	93.3%	100%	80.4%	81.23%	81.39%
Standard Deviation	1.9%	1.1%	1.4%	0.6%	0.7%	0%	0.4%	0.5%
GL-vs-VK - Shadow Mapping - Vulkan - No (FPS)	324.692041	354.051948	323.633471	331.605343	**355.431108**	**285.756835**	288.694589	289.263519
Normalized	91.35%	99.61%	91.05%	93.3%	100%	80.4%	81.22%	81.38%
Standard Deviation	1.9%	1.1%	1.4%	0.6%	0.7%	0%	0.4%	0.5%
Tesseract - 1920 x 1080 (FPS)	702.5142	689.4266	708.0976	721.1576	**679.2678**	902.7987	907.4810	**911.8239**
Normalized	77.04%	75.61%	77.66%	79.09%	74.5%	99.01%	99.52%	100%
Standard Deviation	1.9%	1.7%	0.6%	1%	0.5%	0.5%	0.4%	1.2%
VKMark - 1920 x 1080 (VKMark Score)	13228	**22080**	13237	**13222**	22044	13652	13662	13712
Normalized	59.91%	100%	59.95%	59.88%	99.84%	61.83%	61.88%	62.1%
Standard Deviation	0%	0.1%	0.3%	0.2%	0.1%	0.2%	0.2%	0.2%

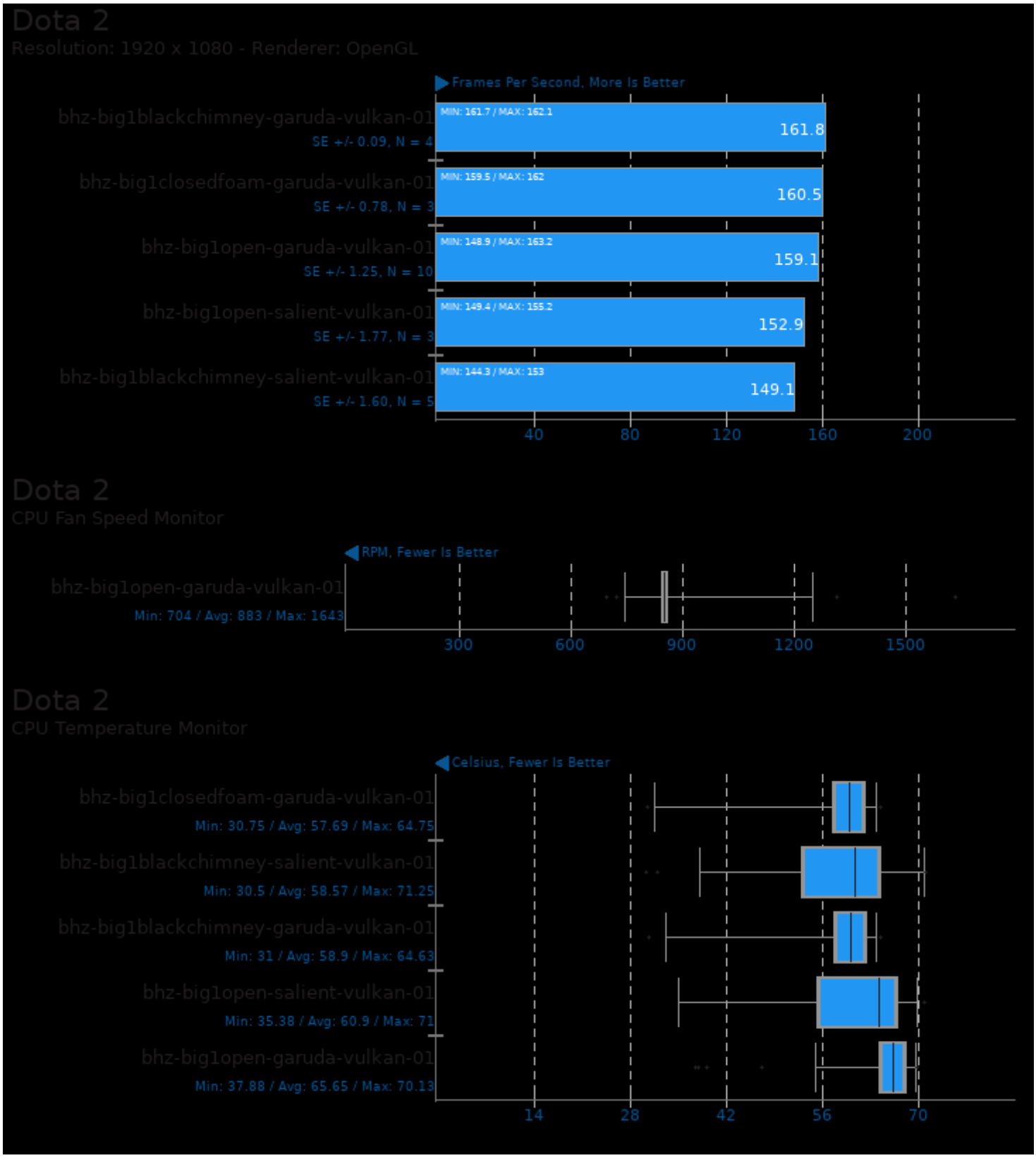
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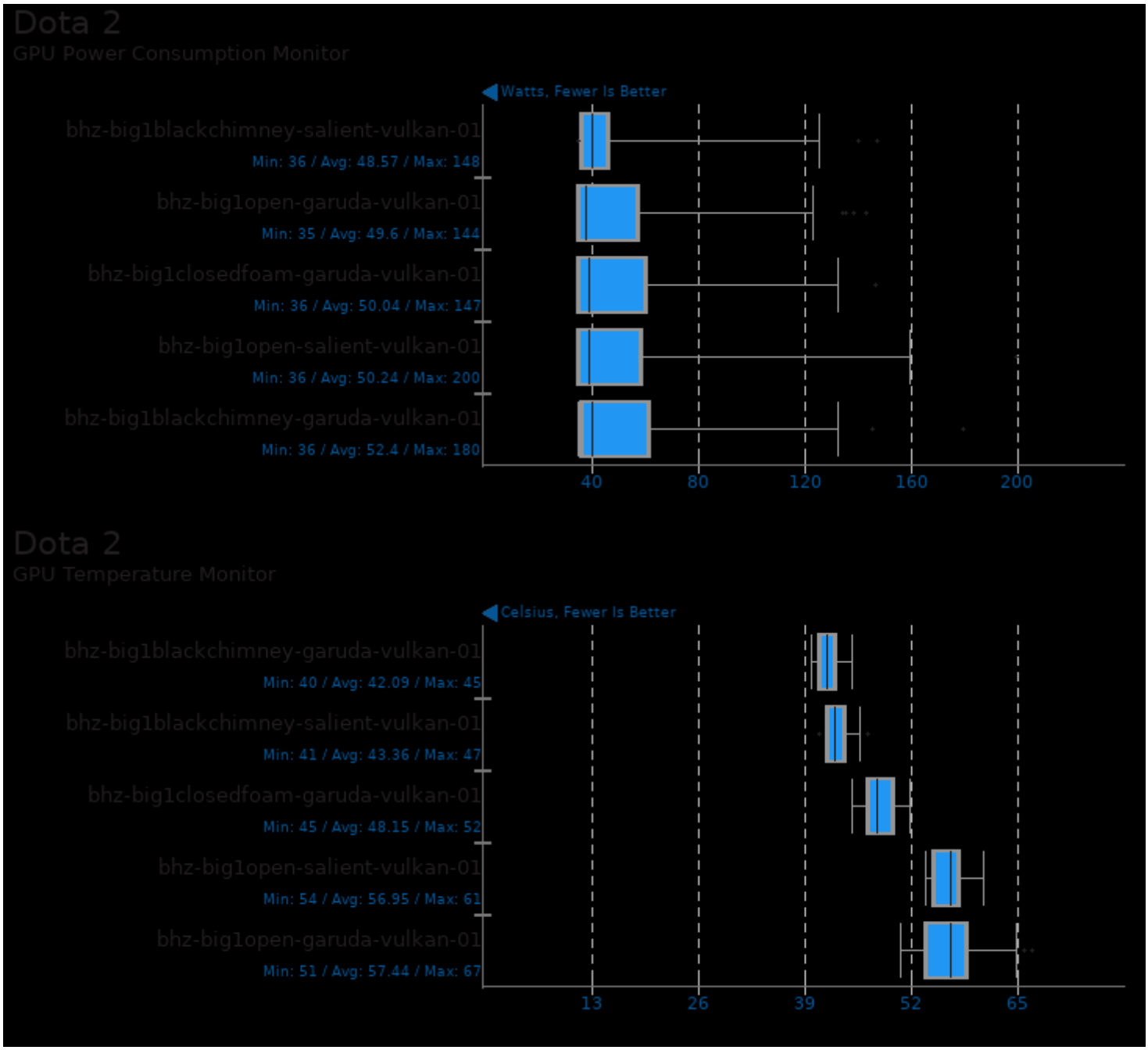
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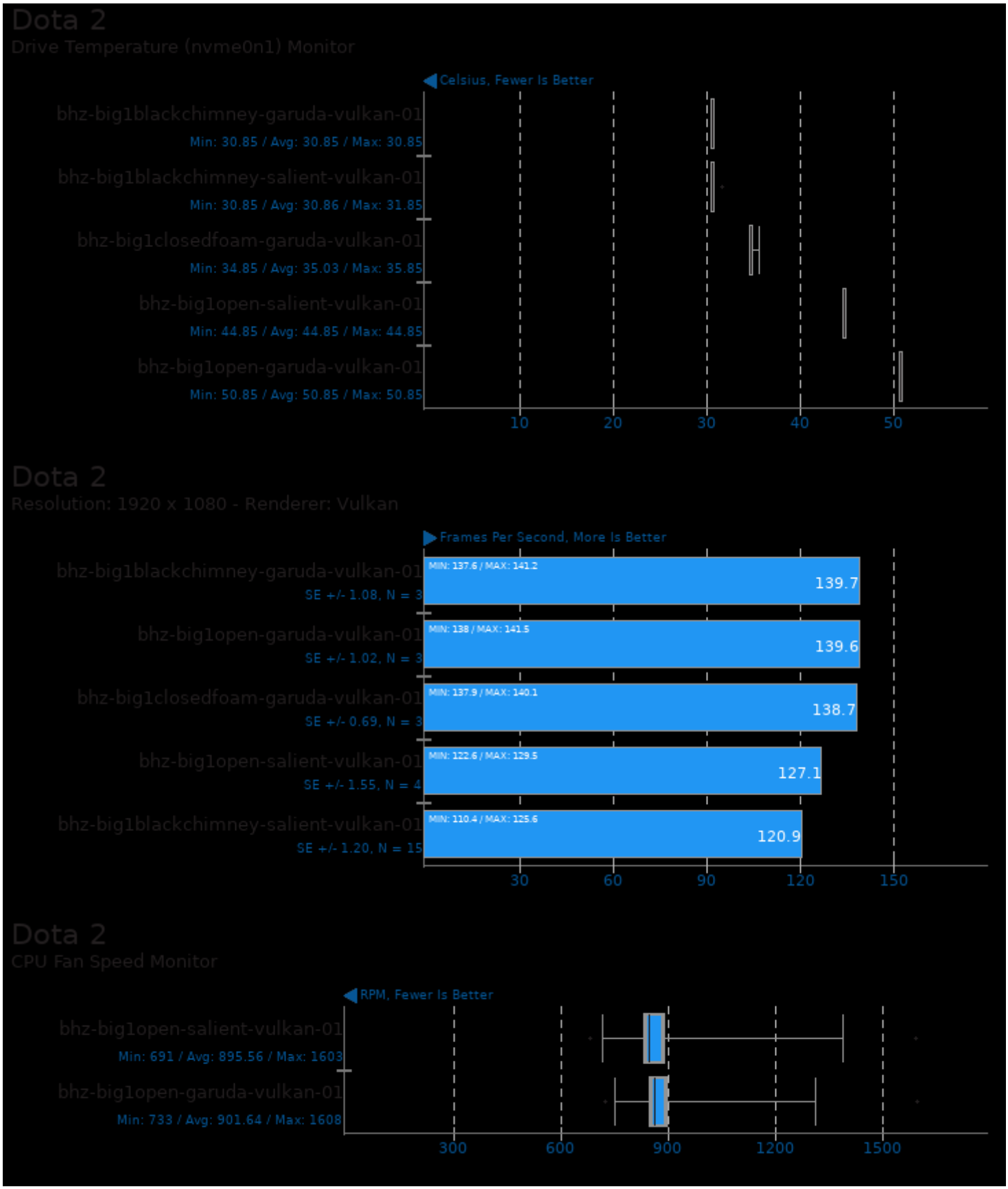
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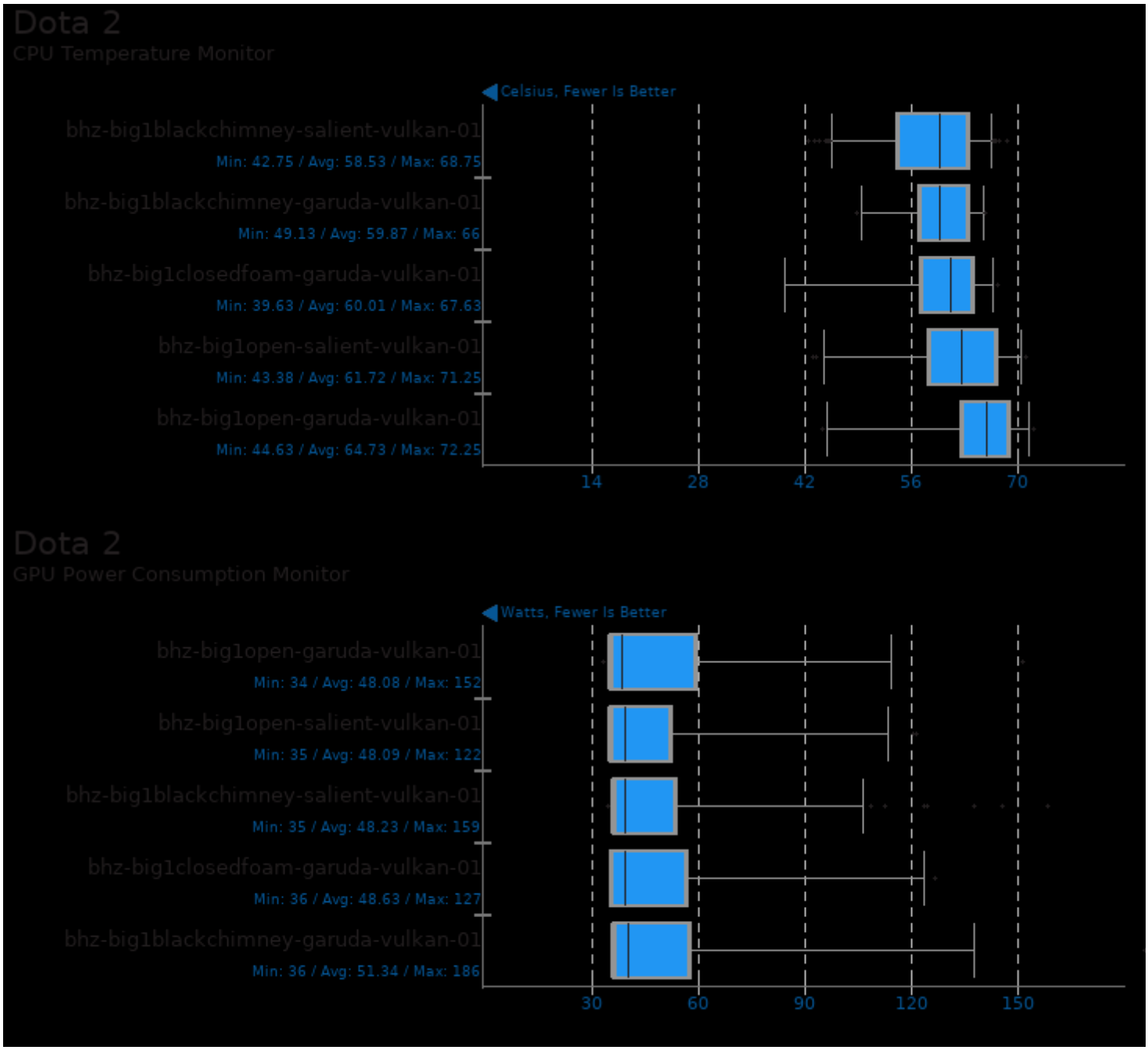
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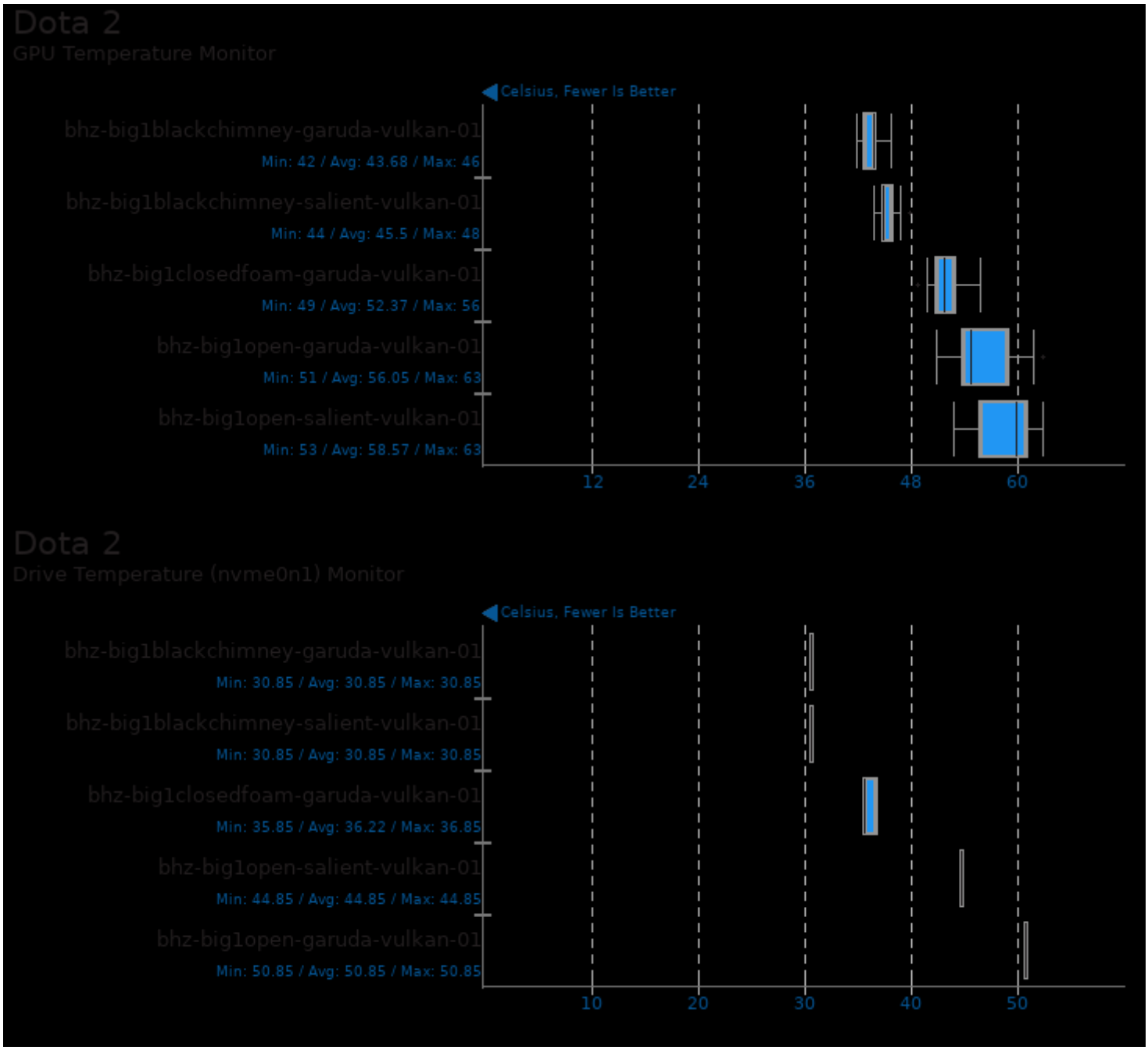
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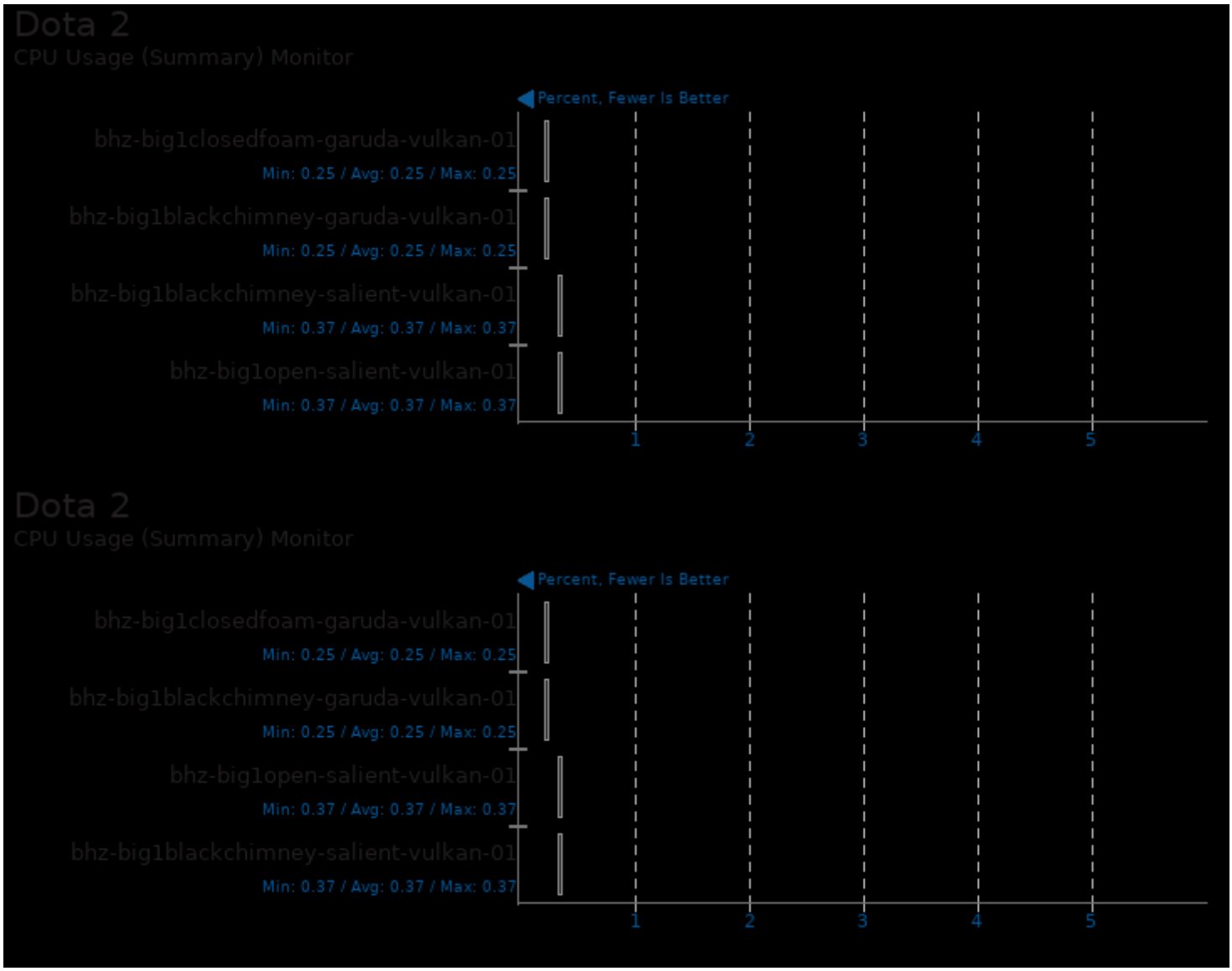
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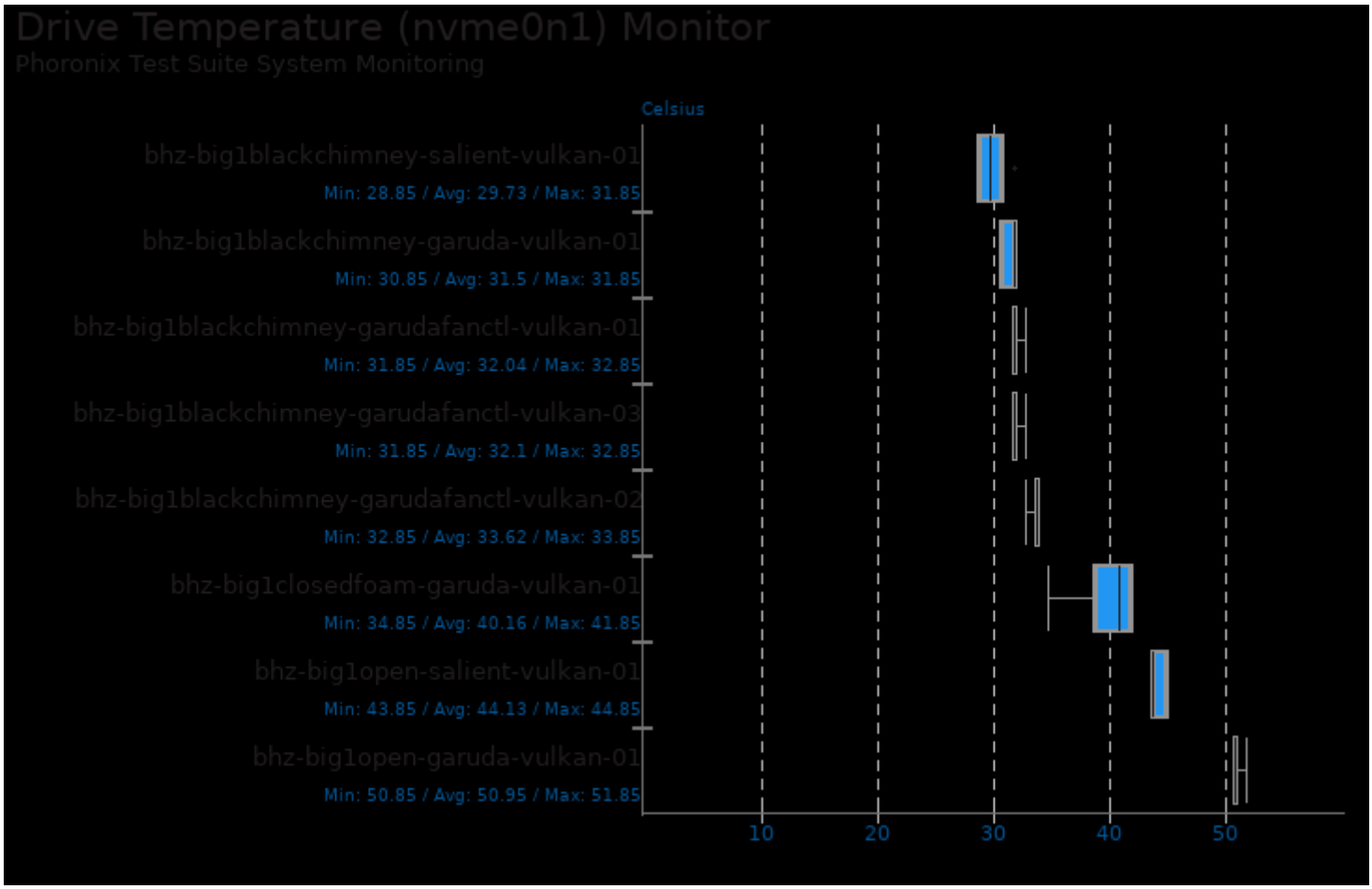
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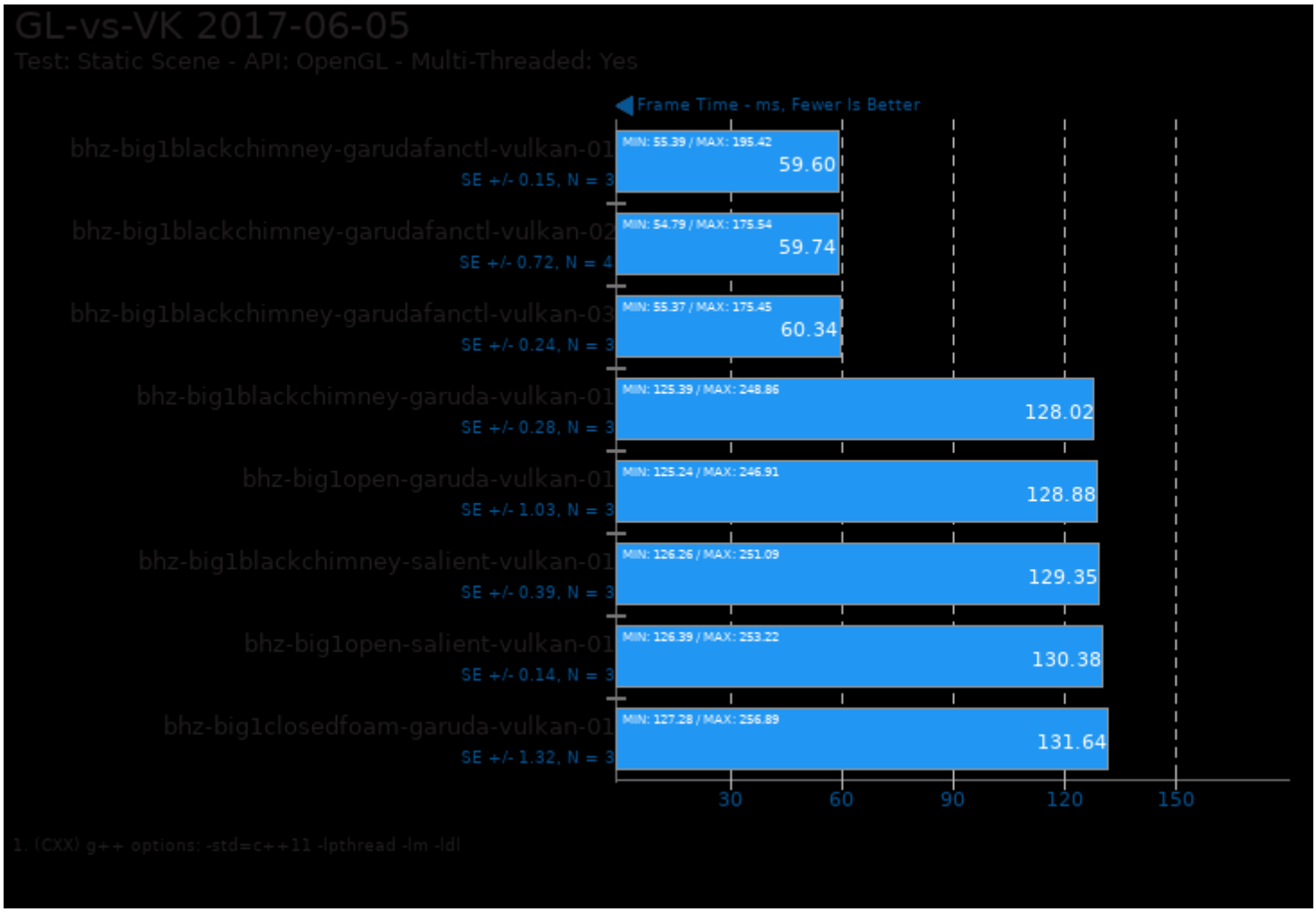
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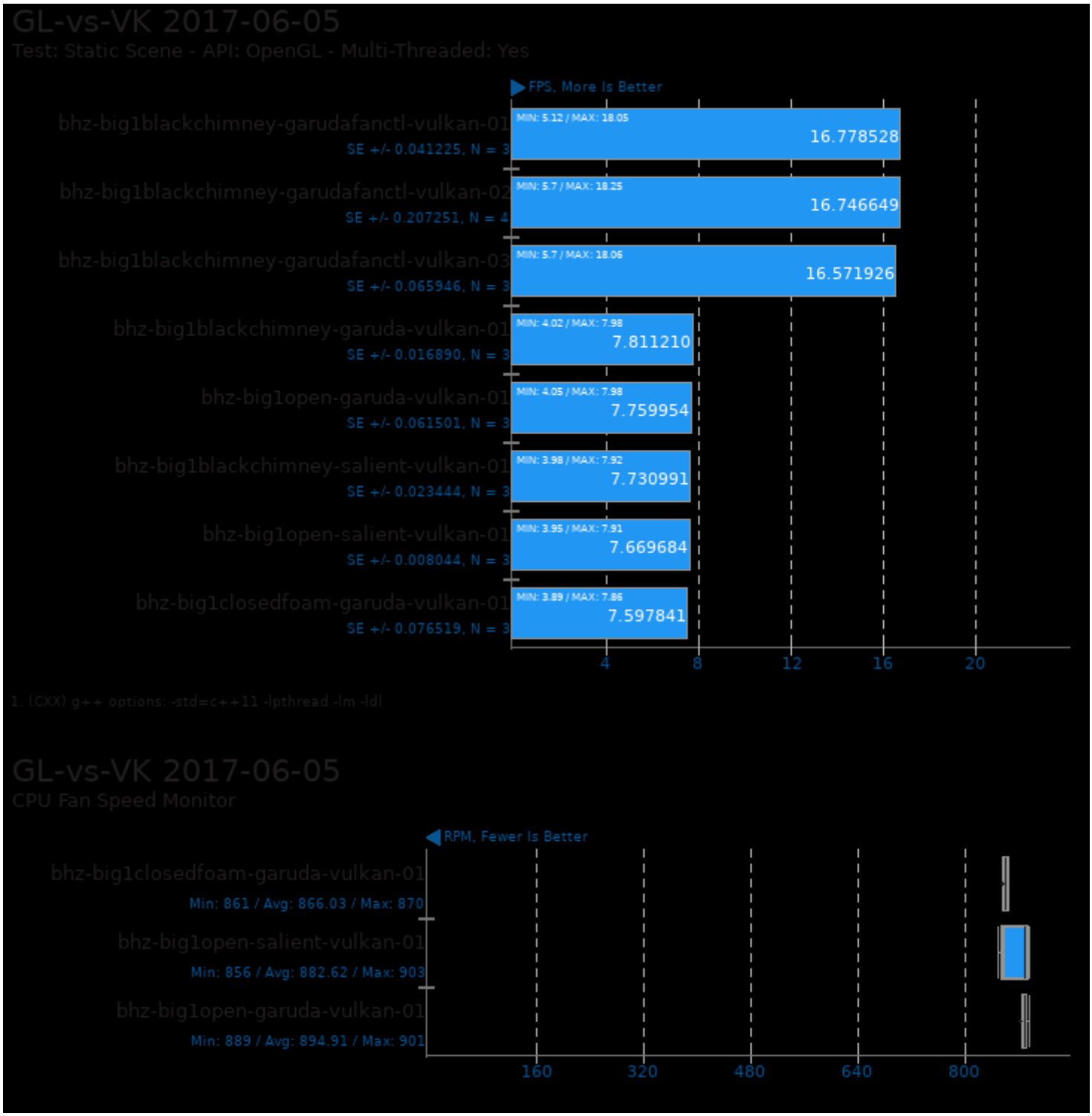
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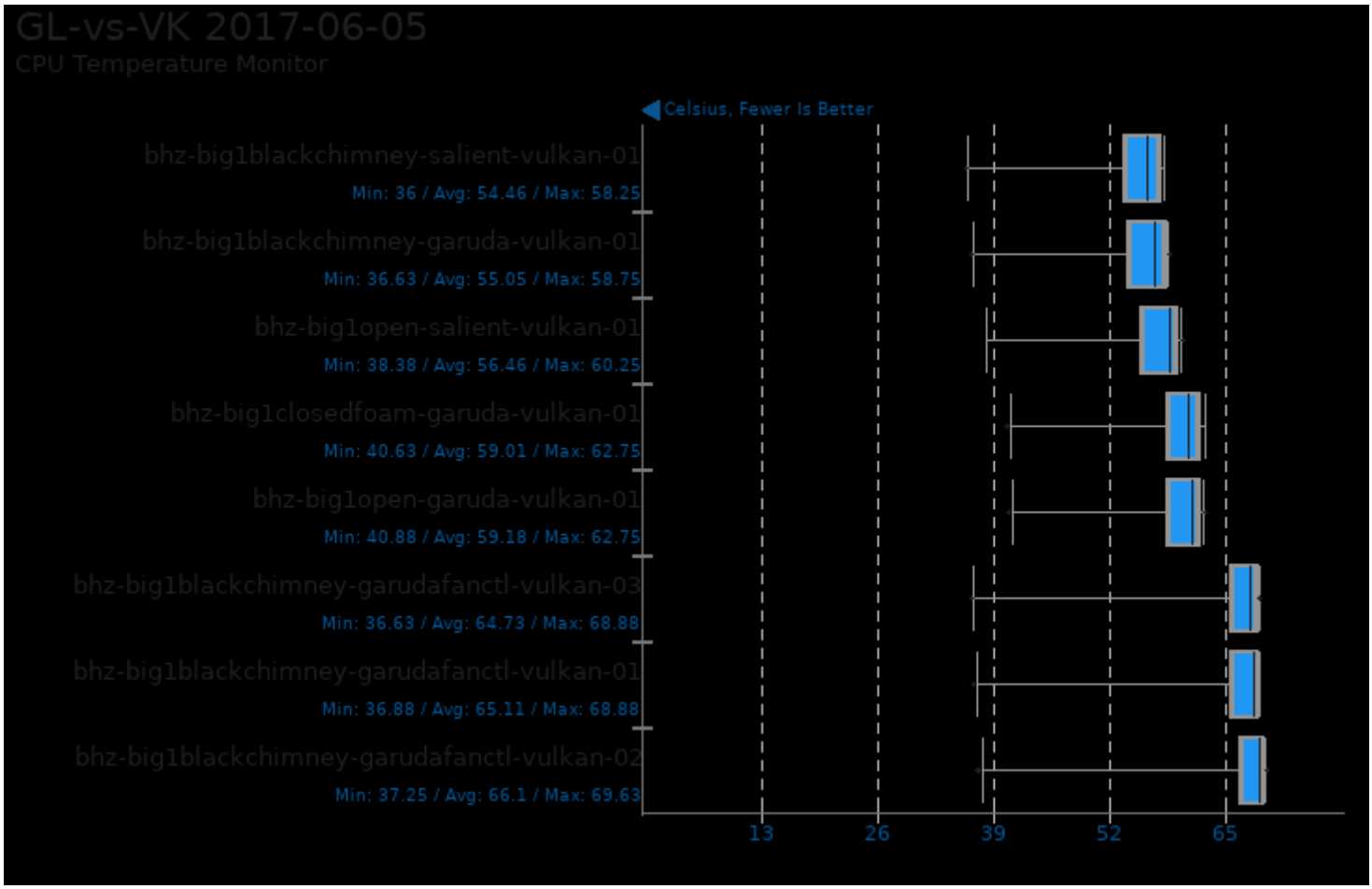
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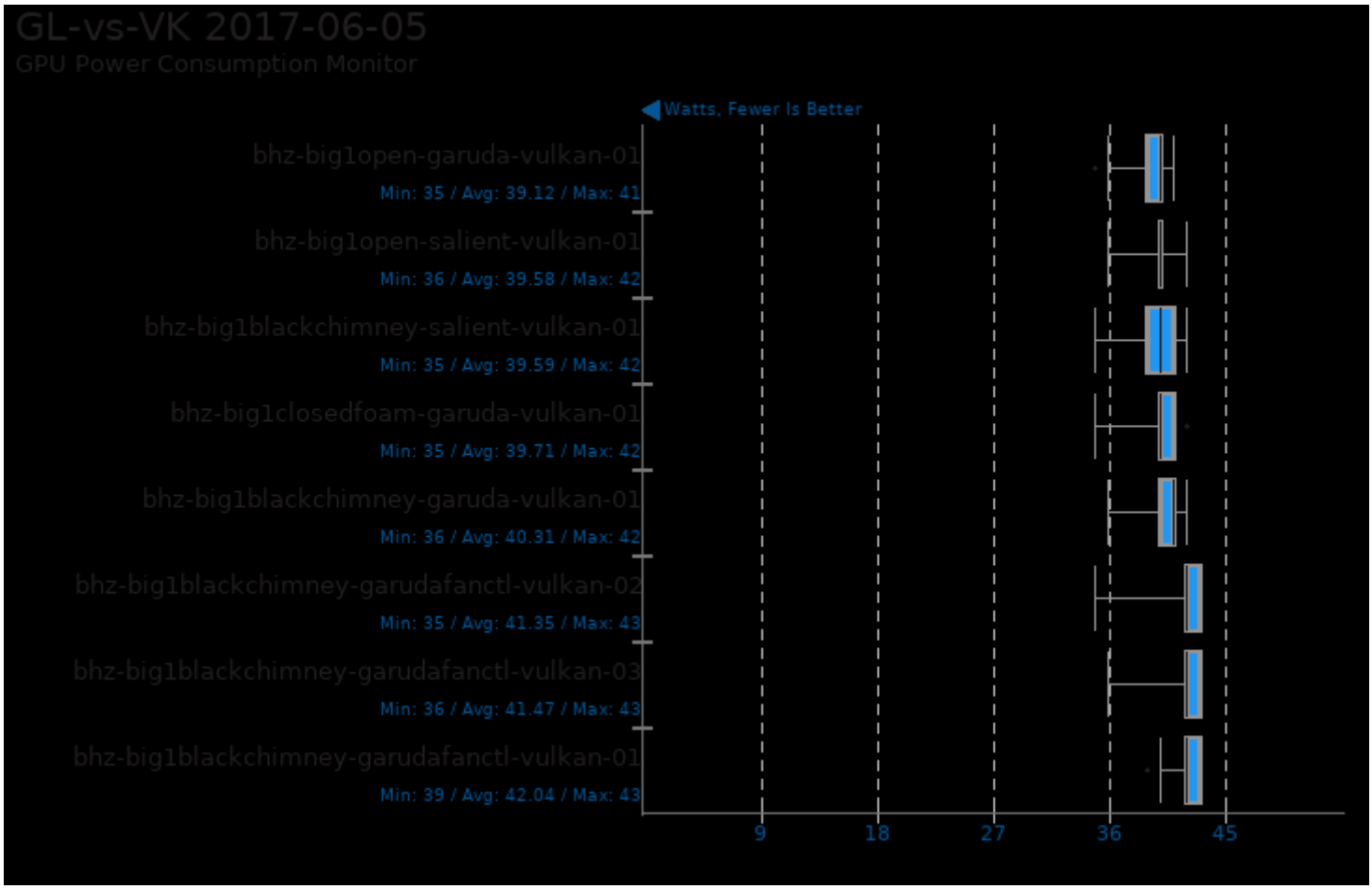
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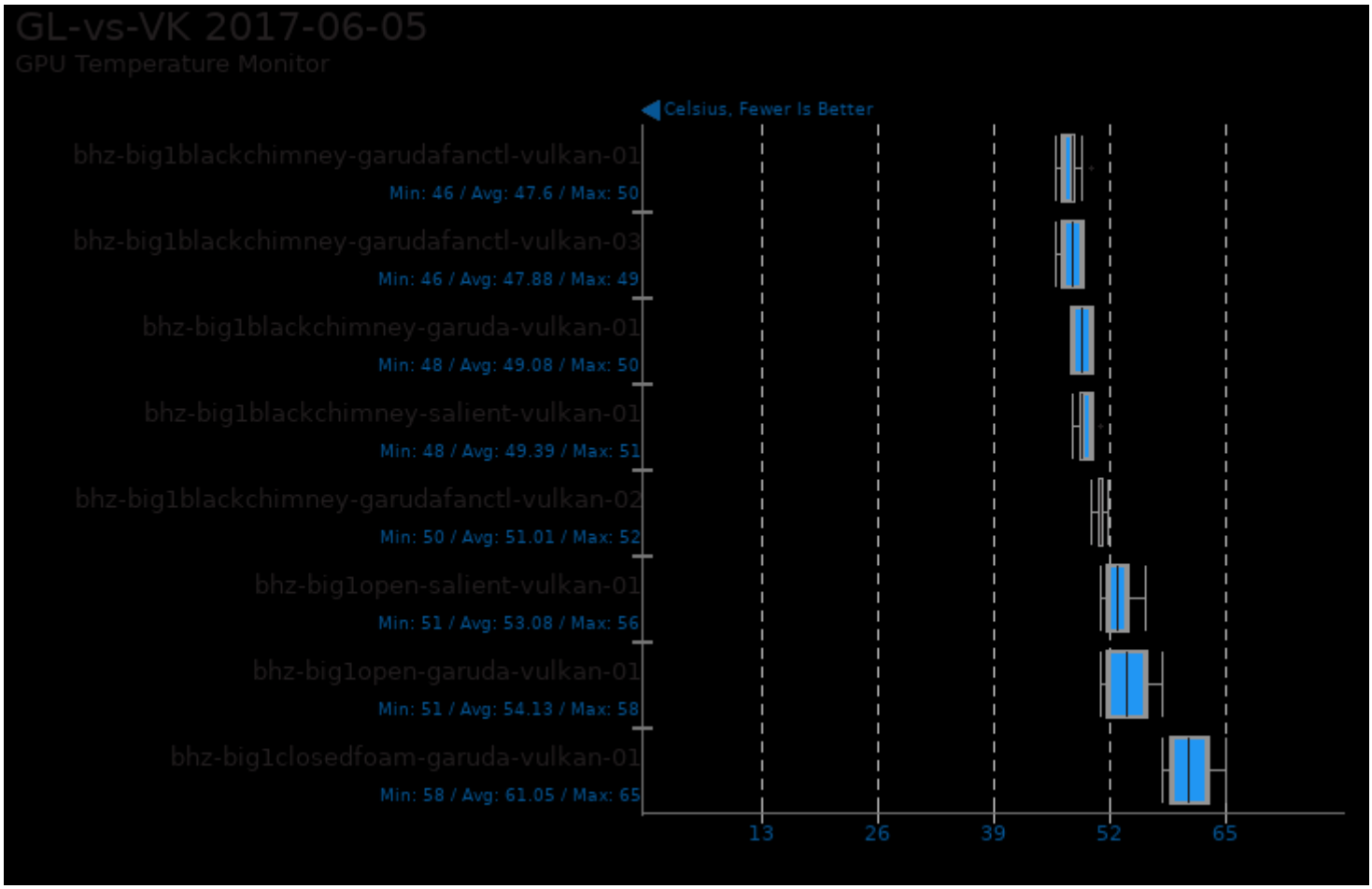
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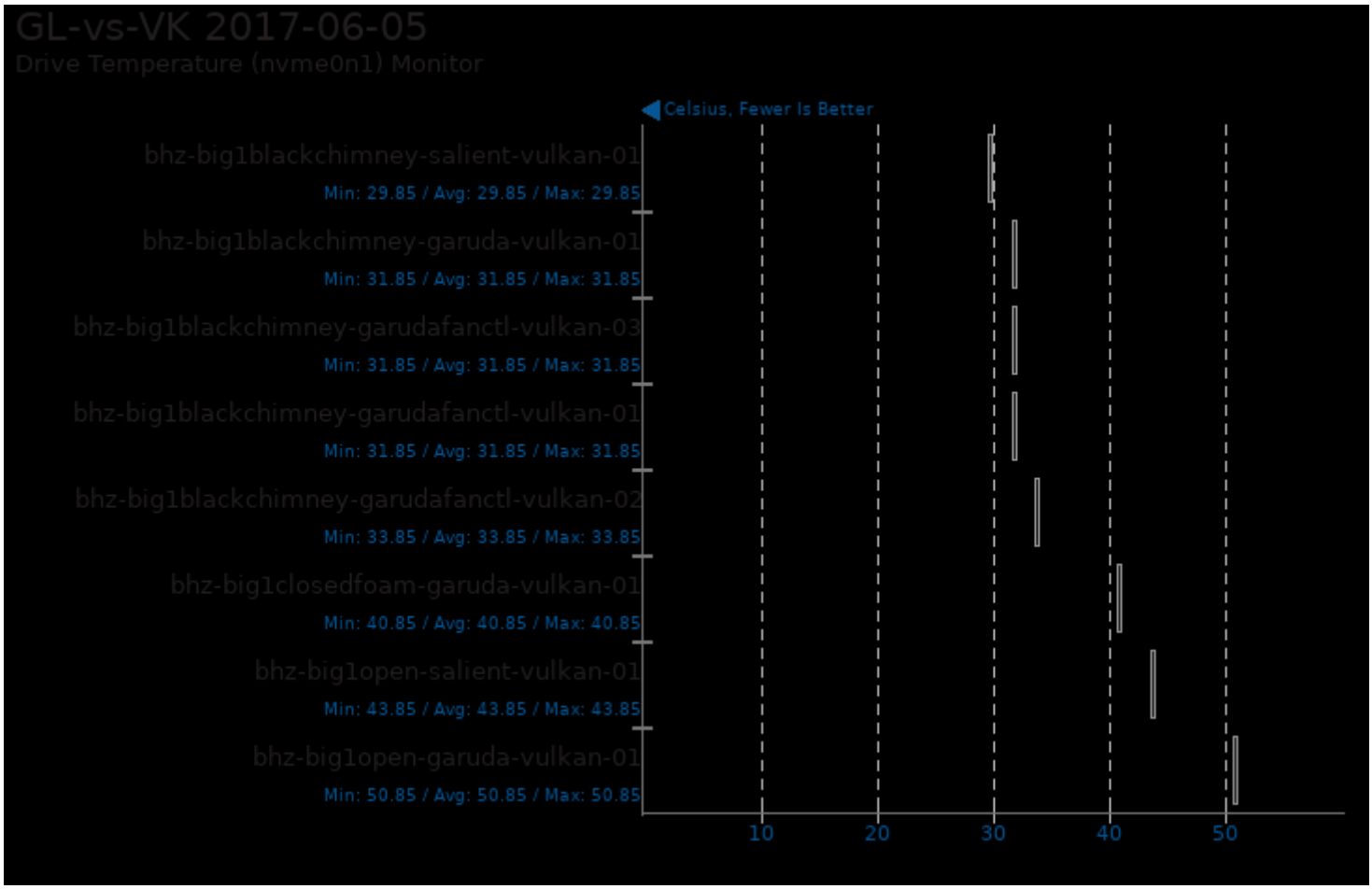
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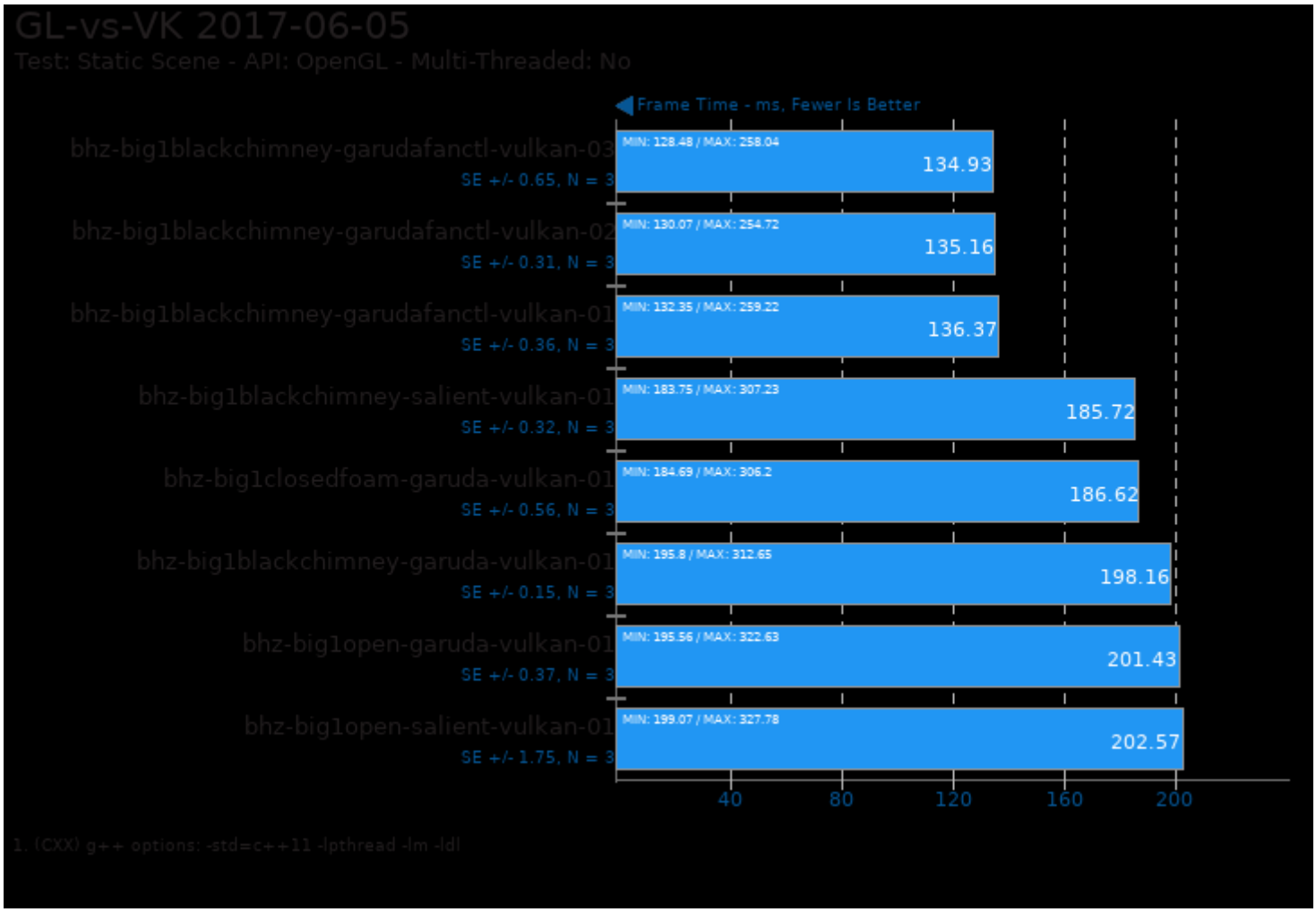
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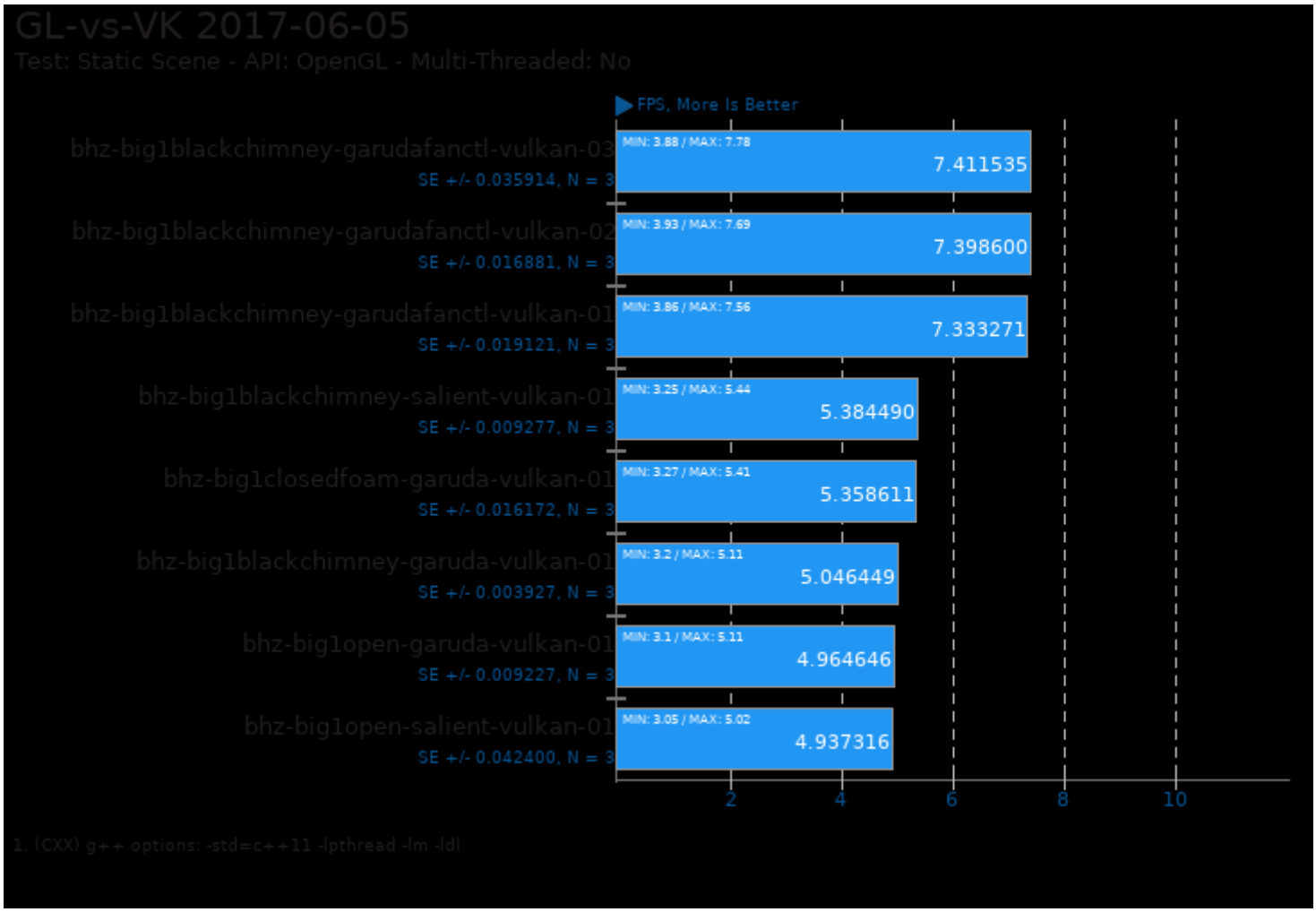
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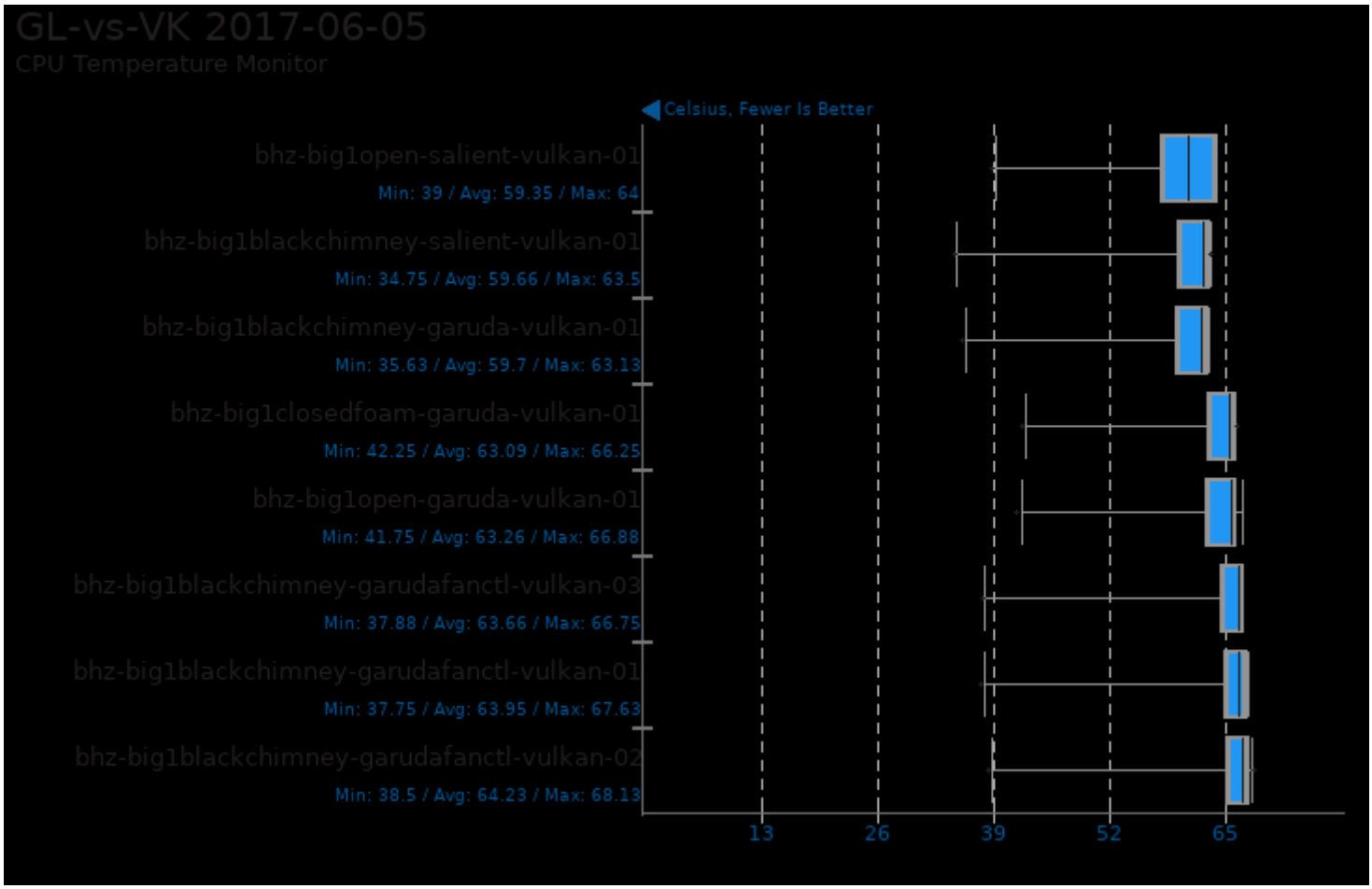
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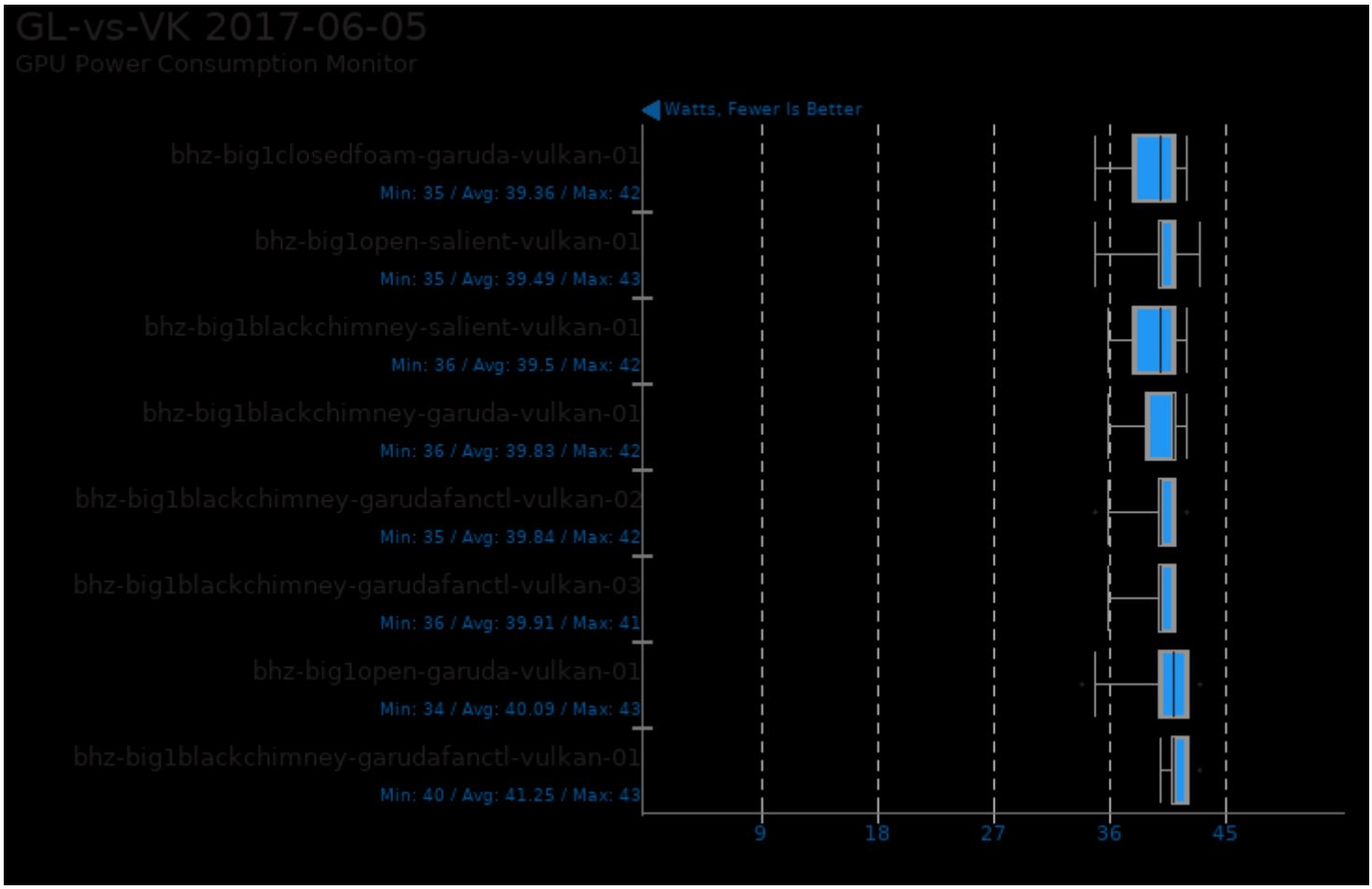
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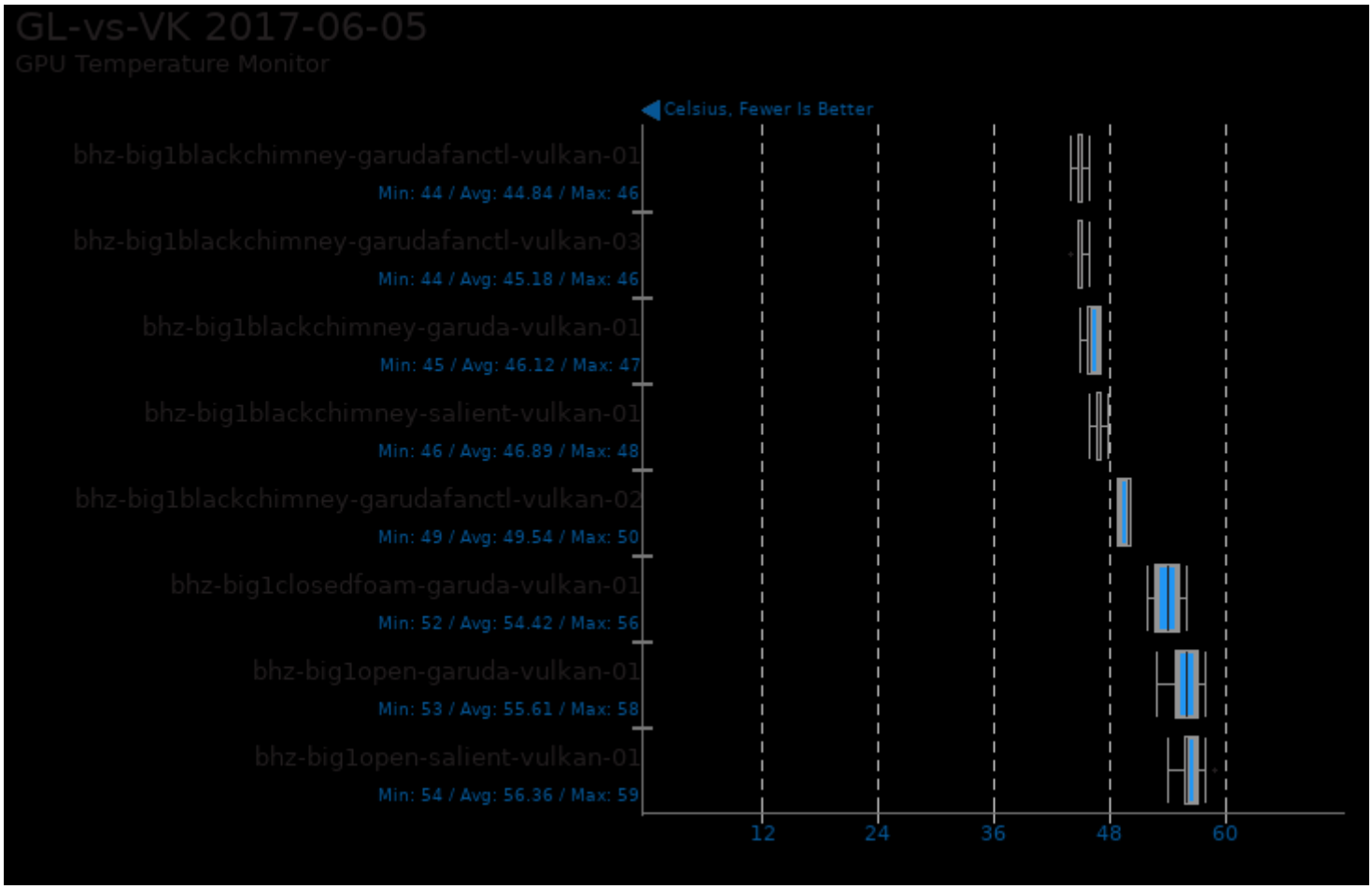
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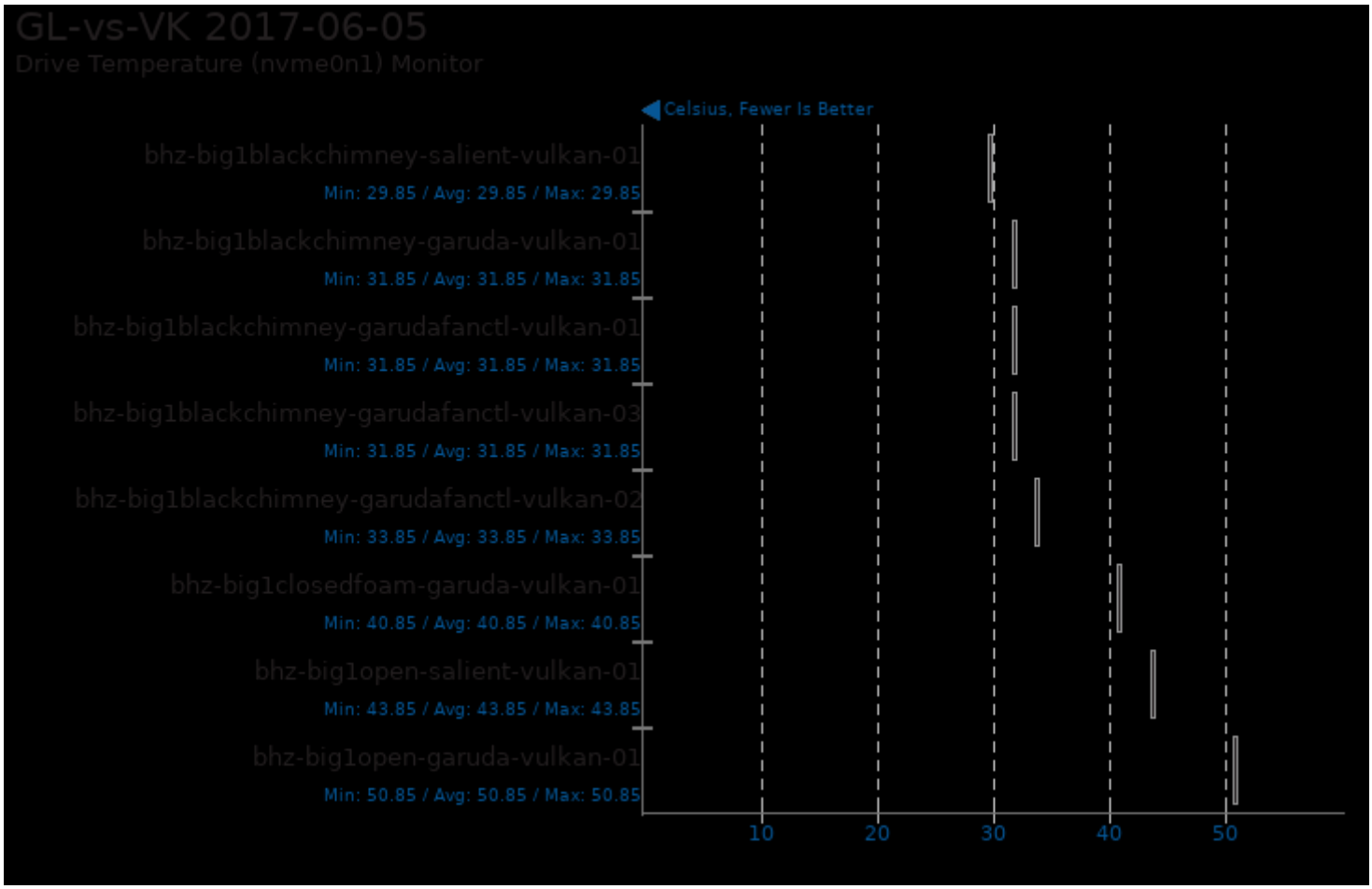
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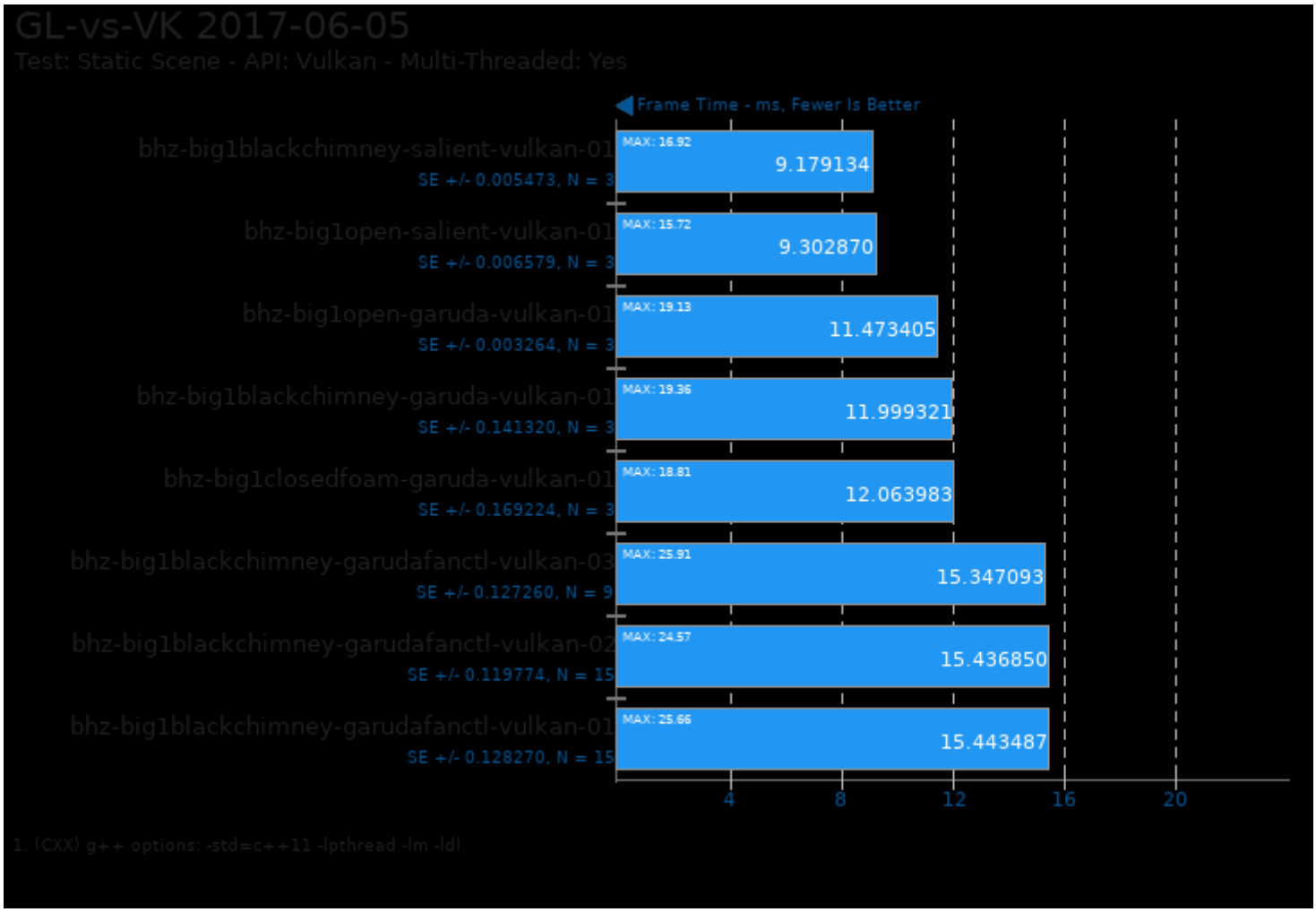
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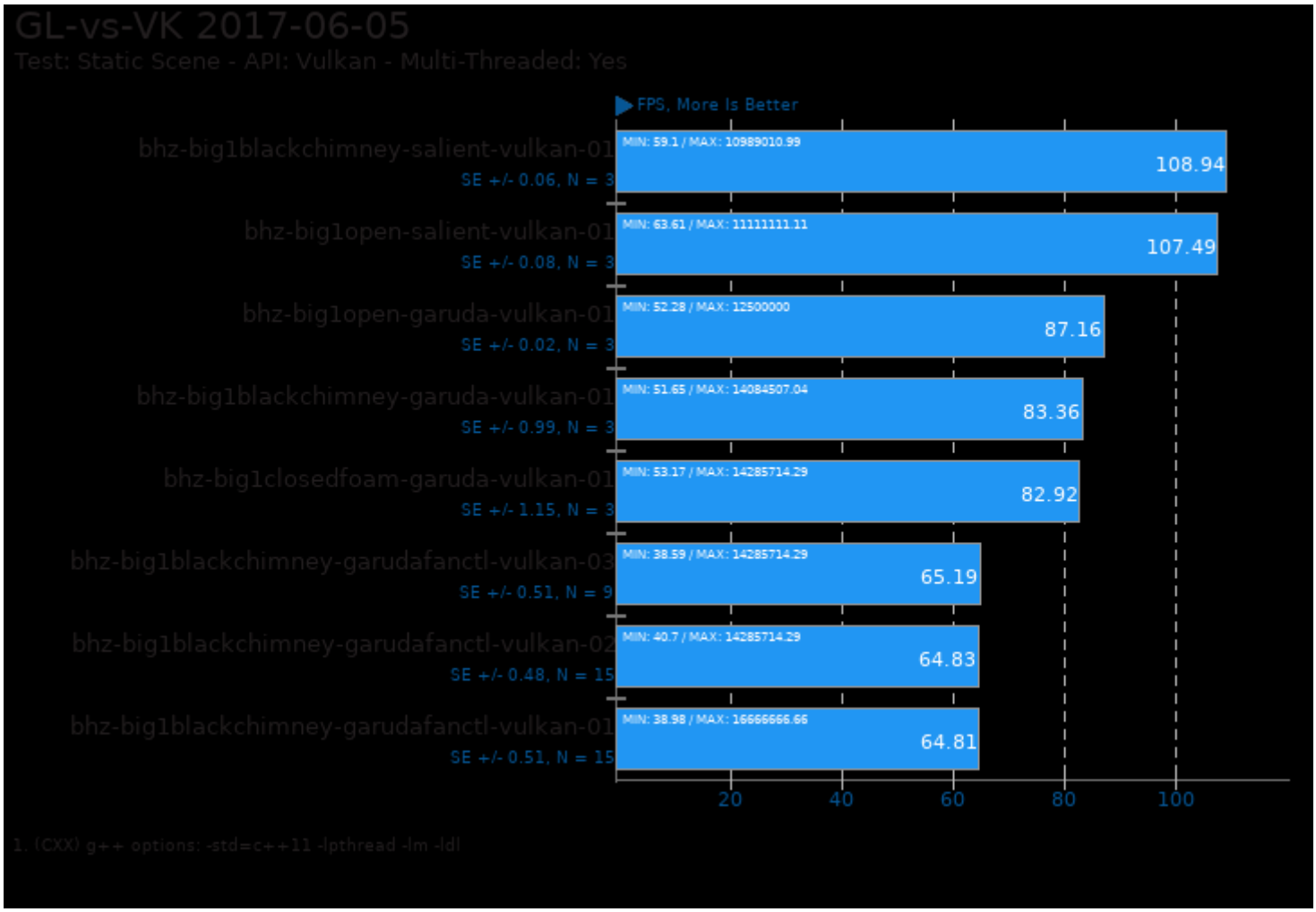
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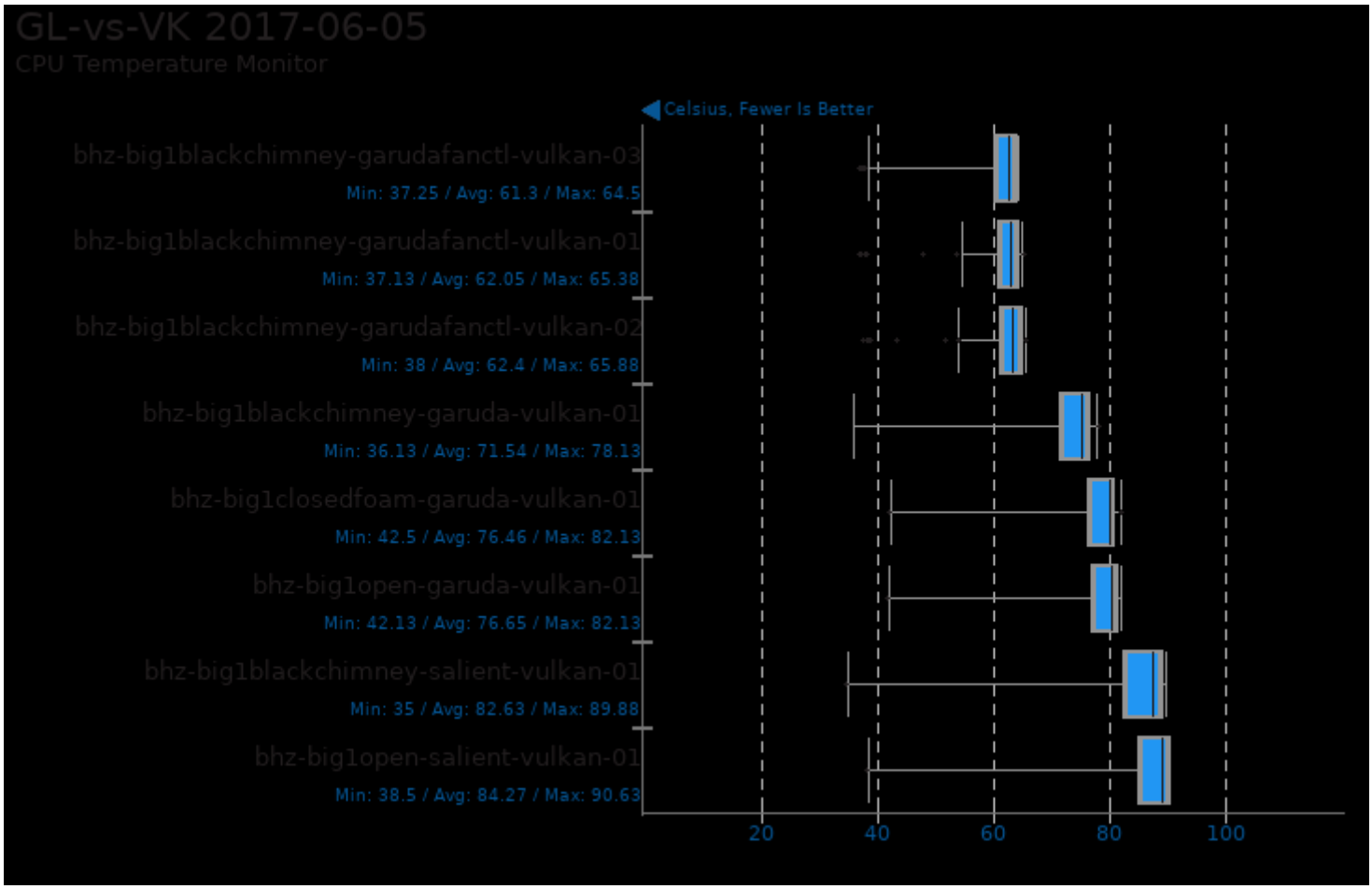
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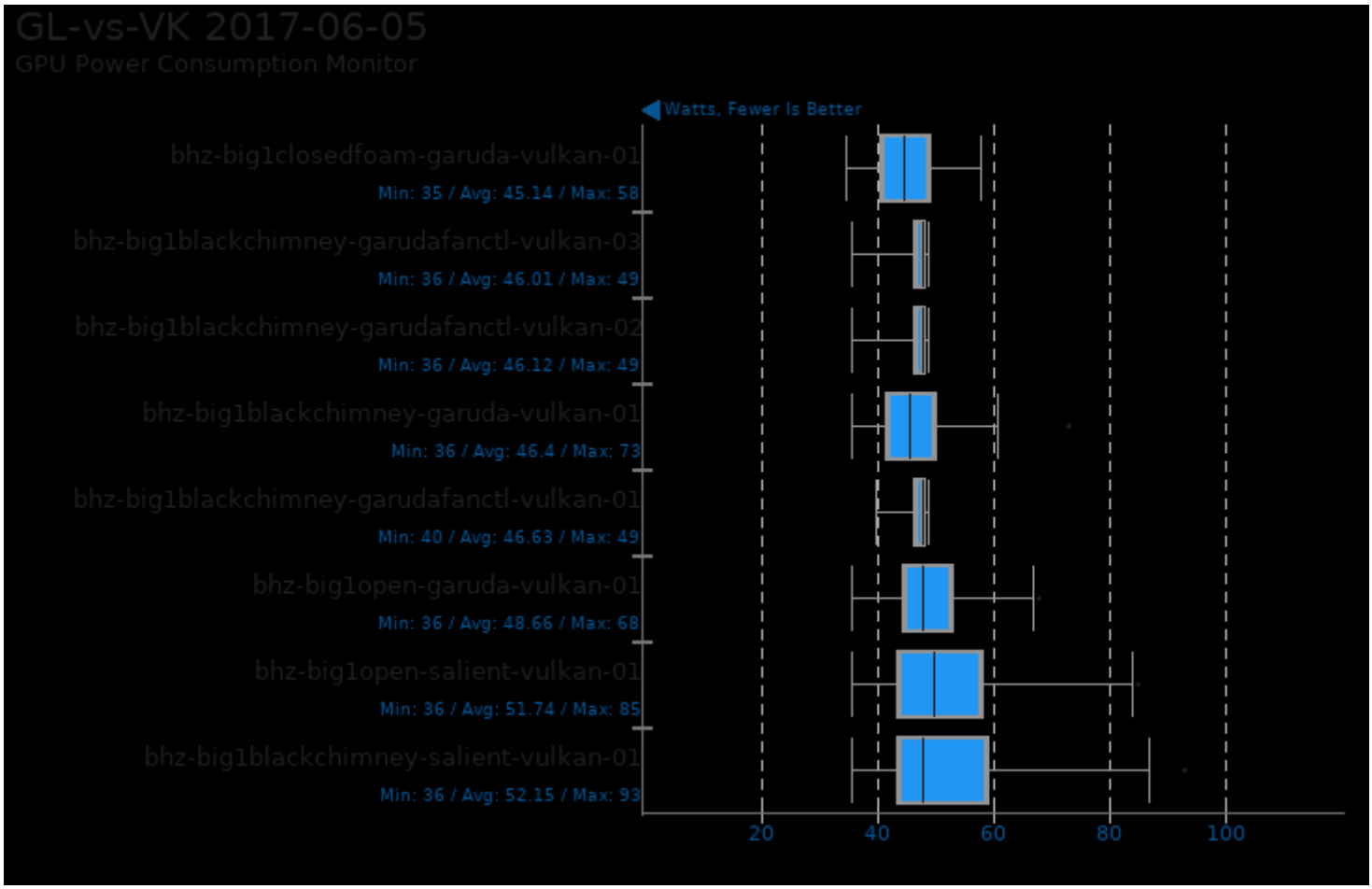
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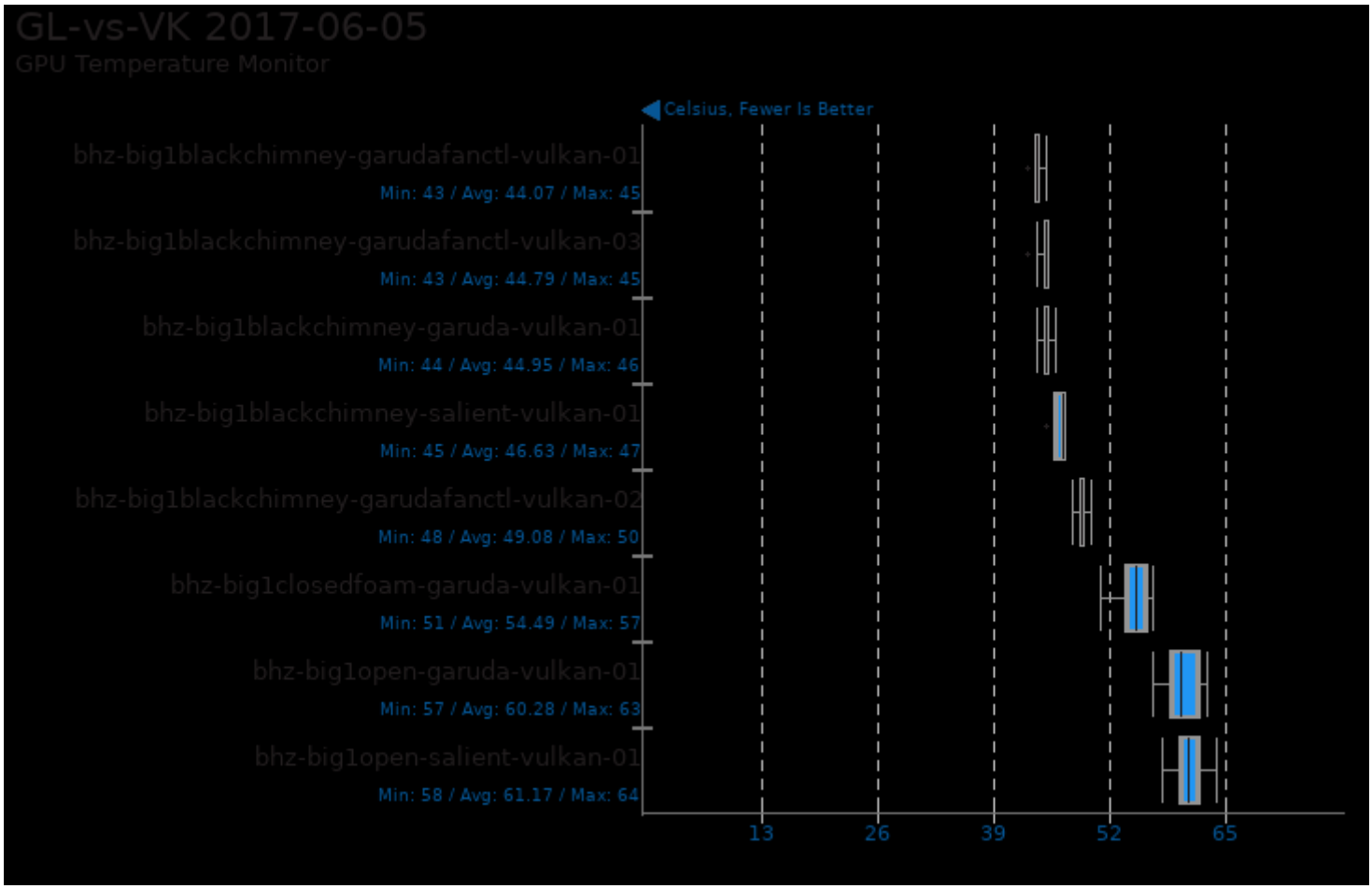
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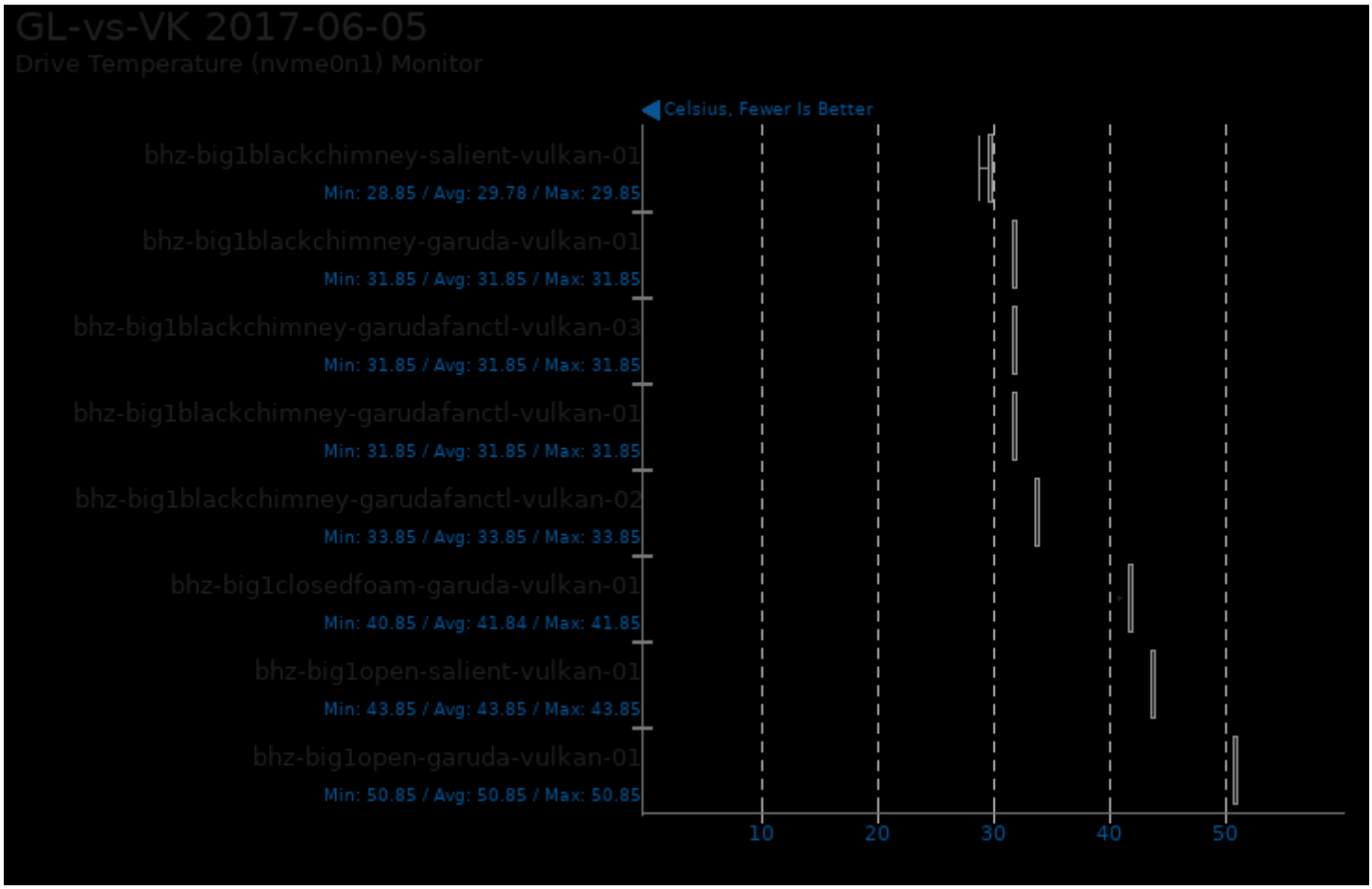
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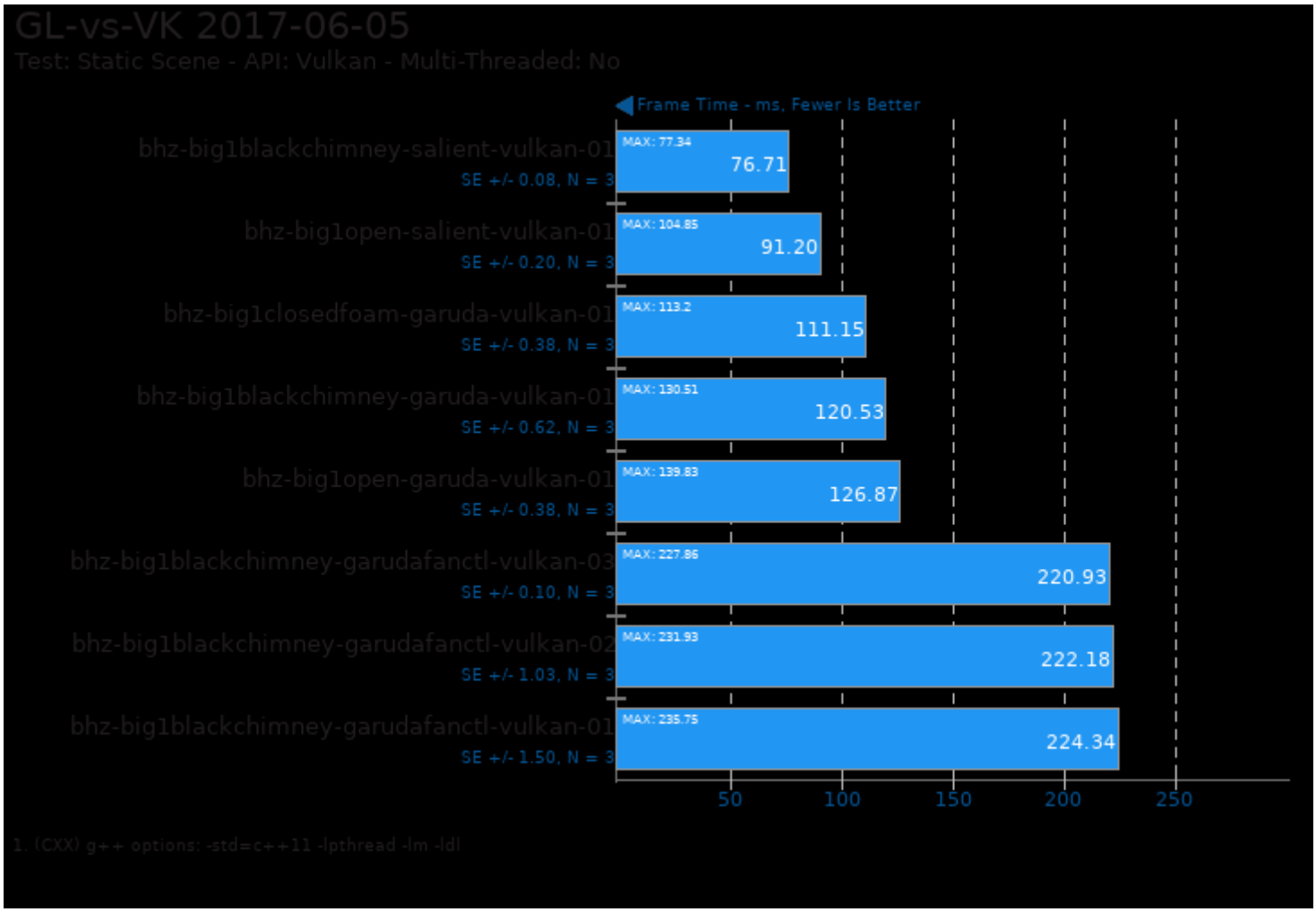
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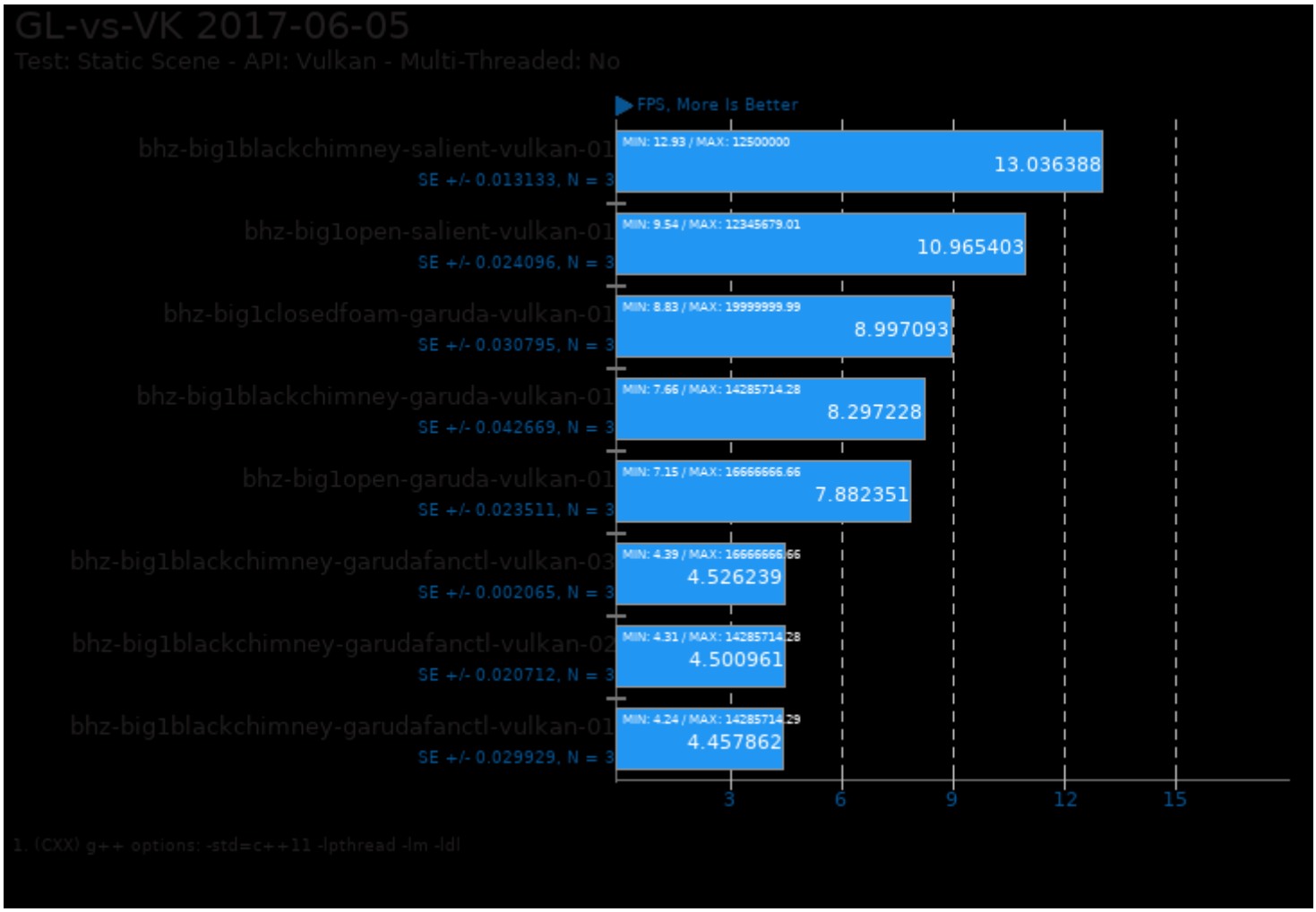
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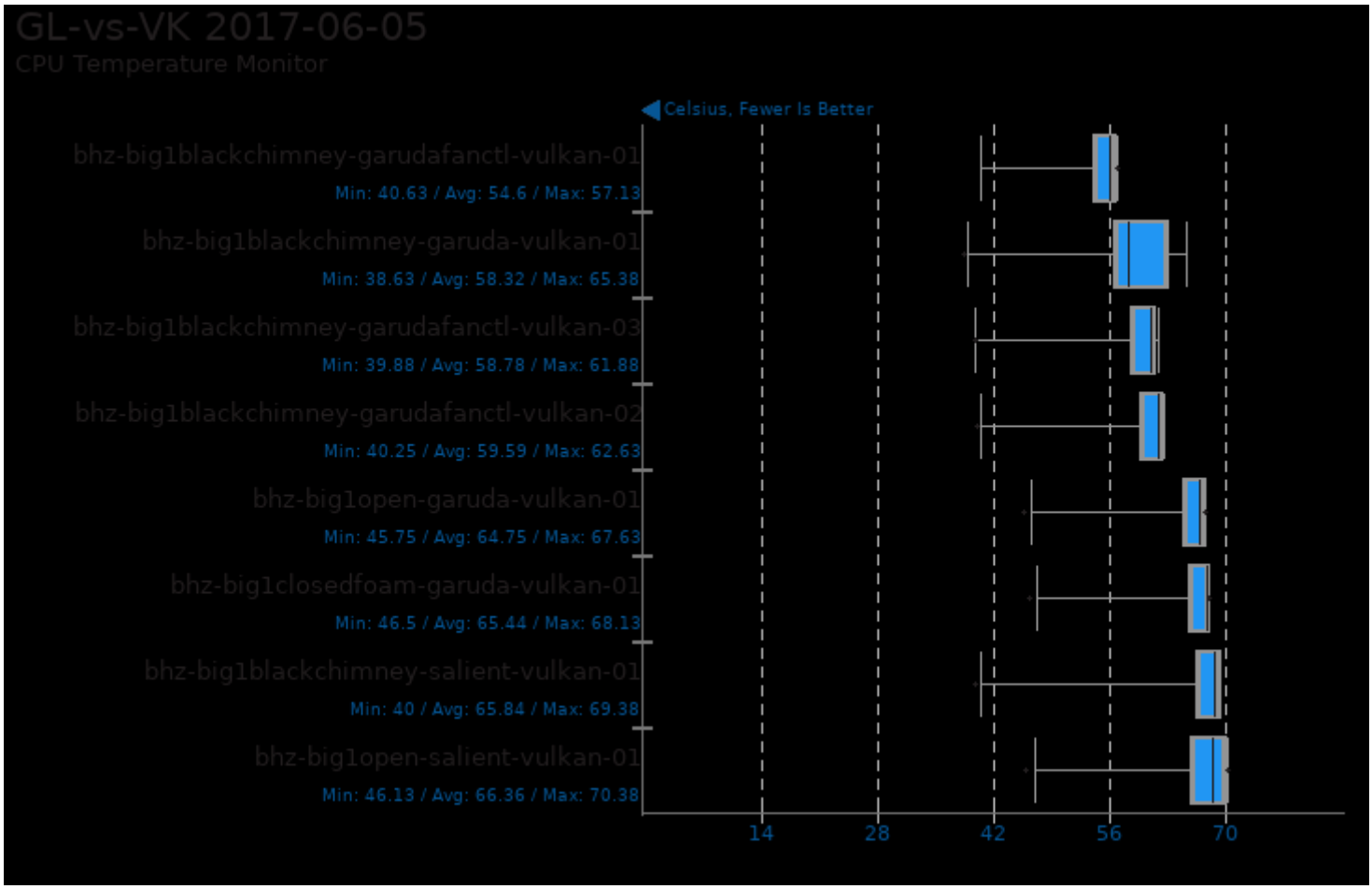
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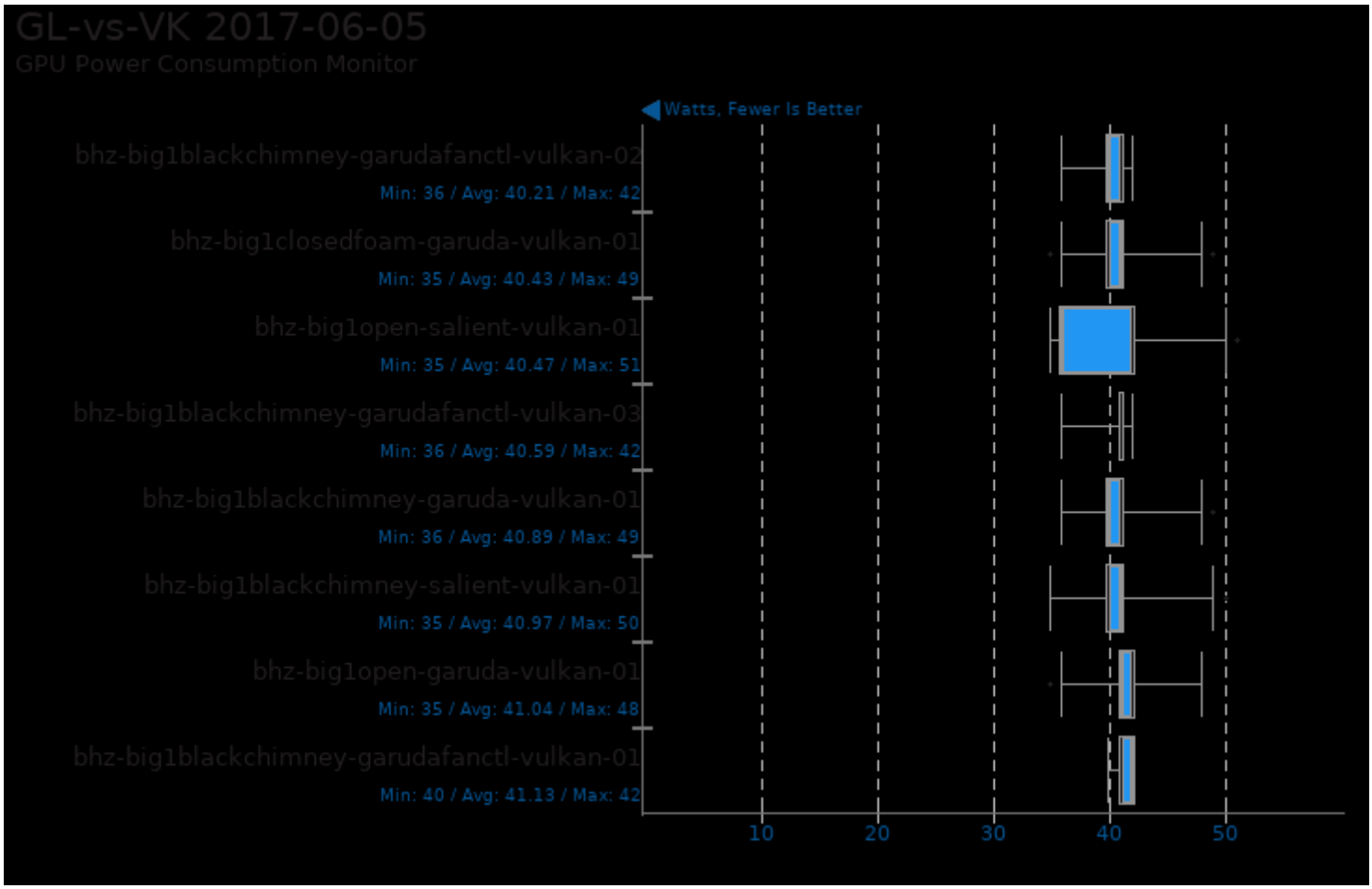
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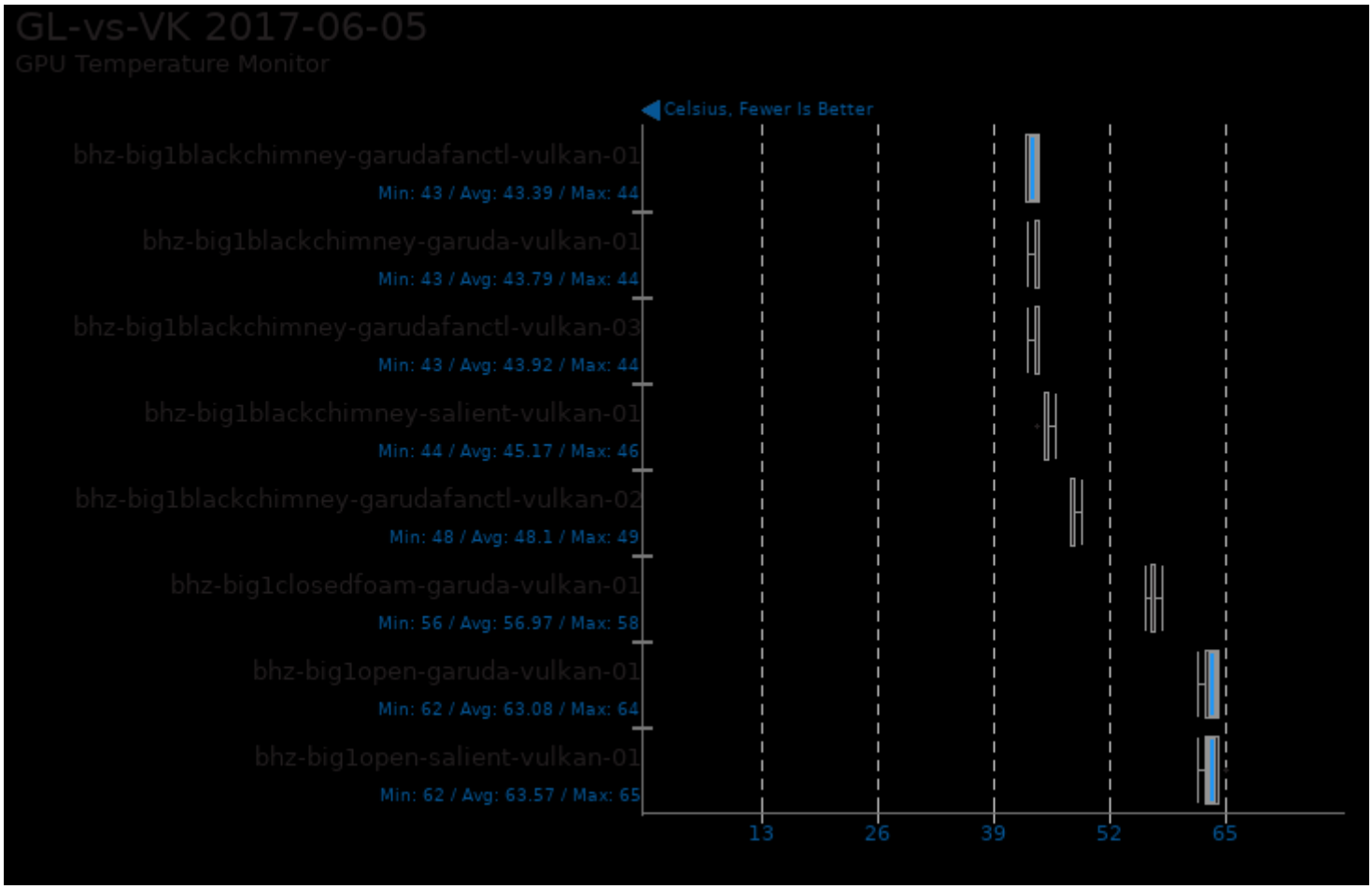
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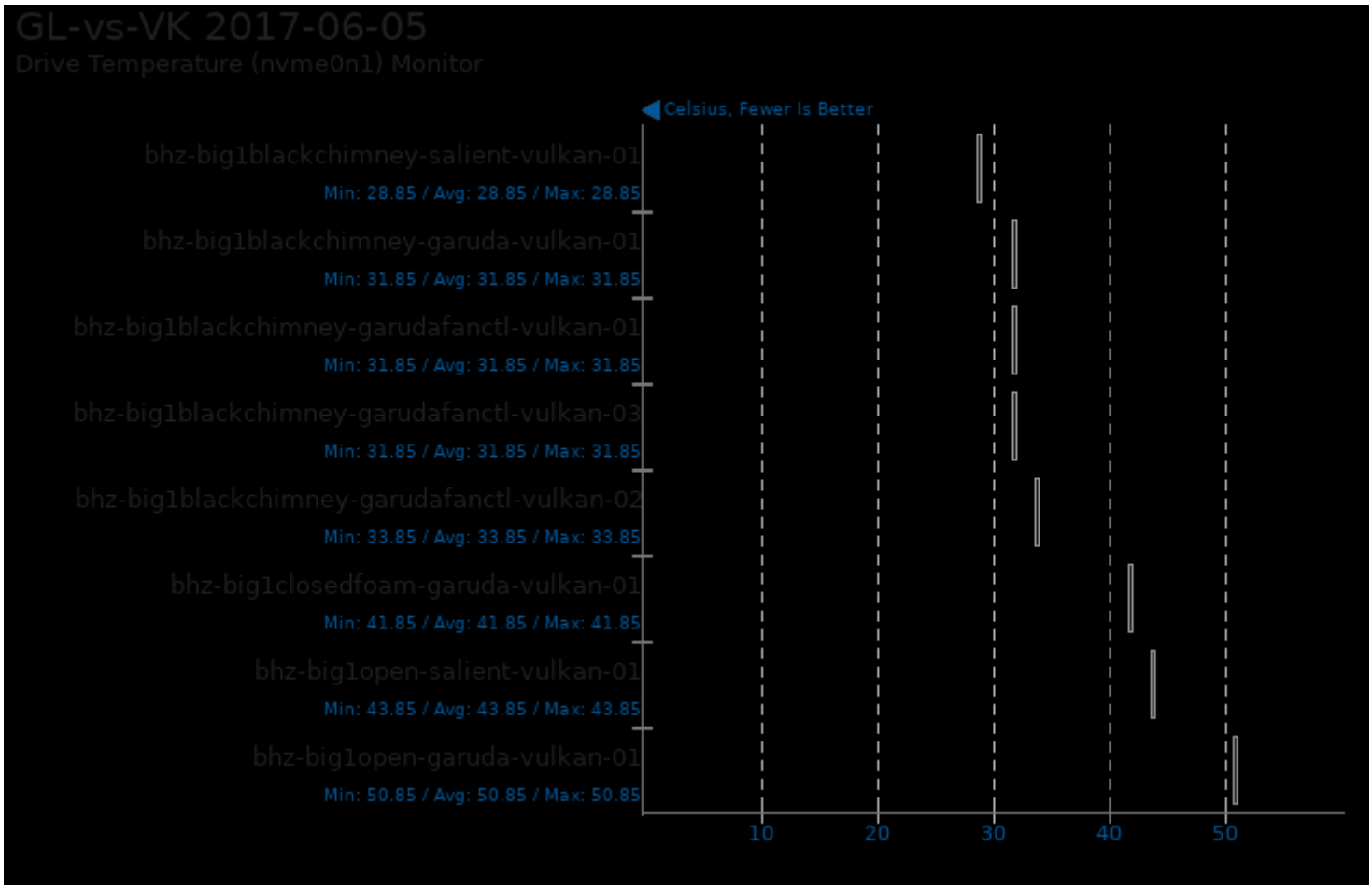
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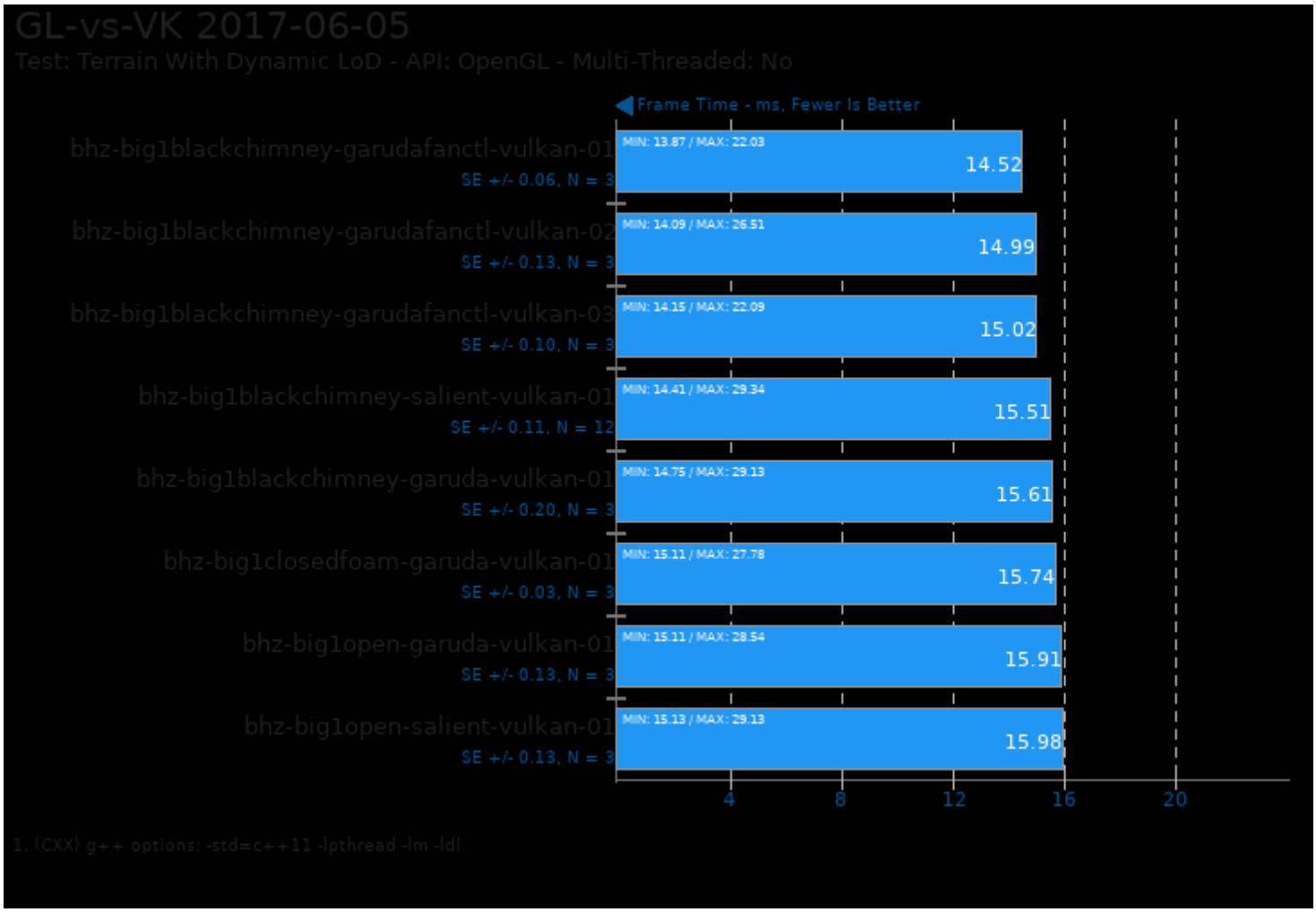
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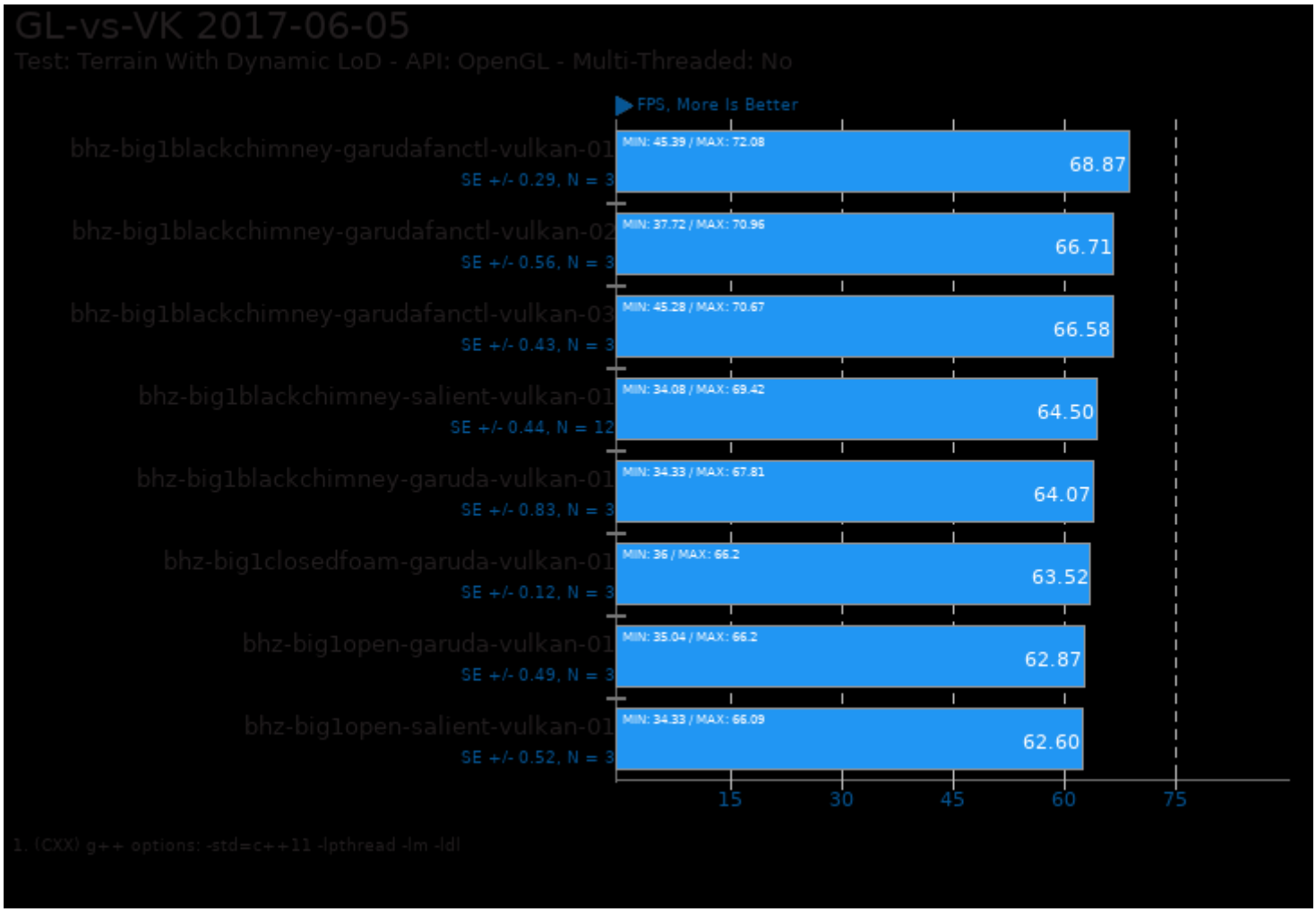
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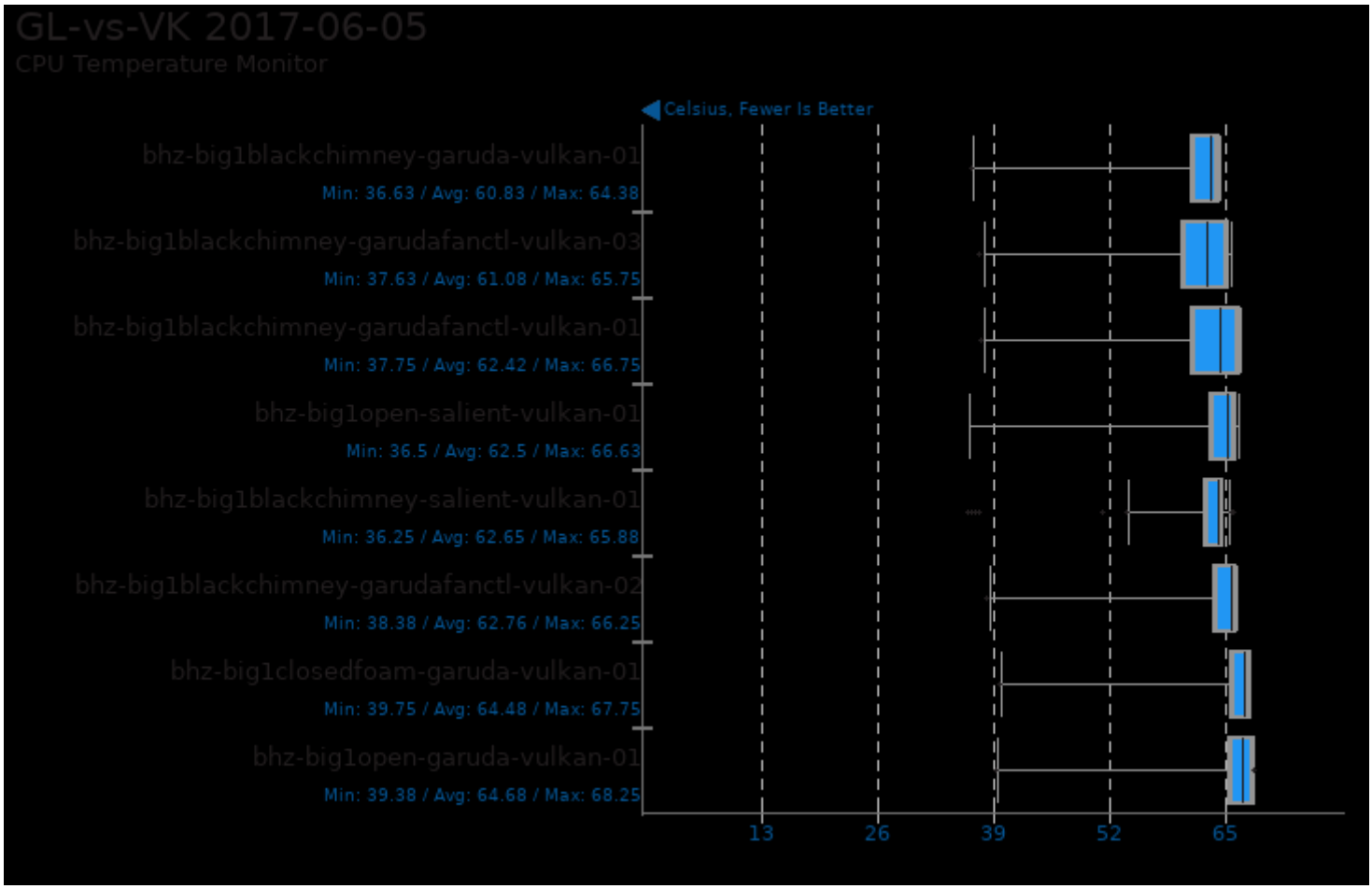
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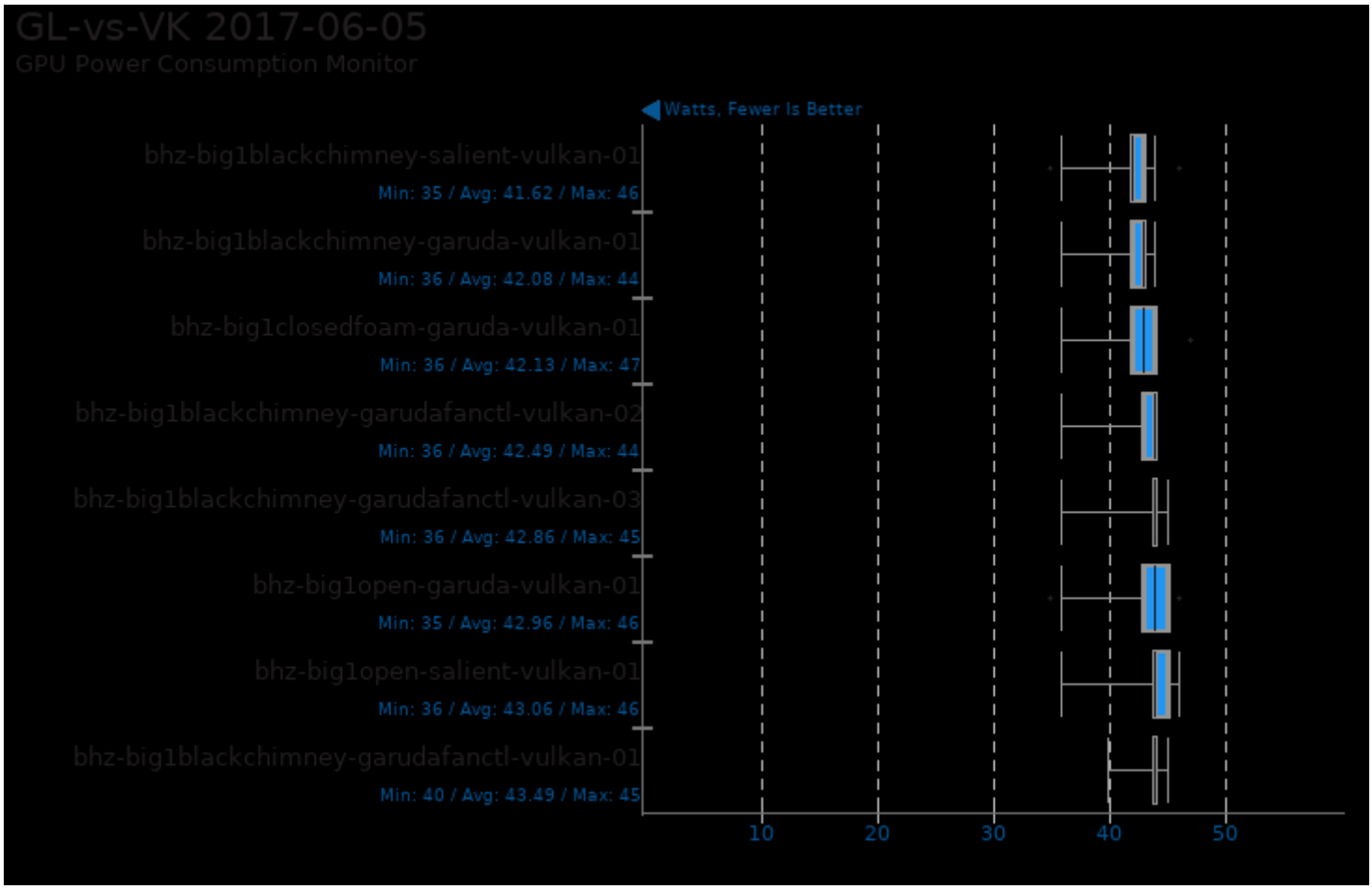
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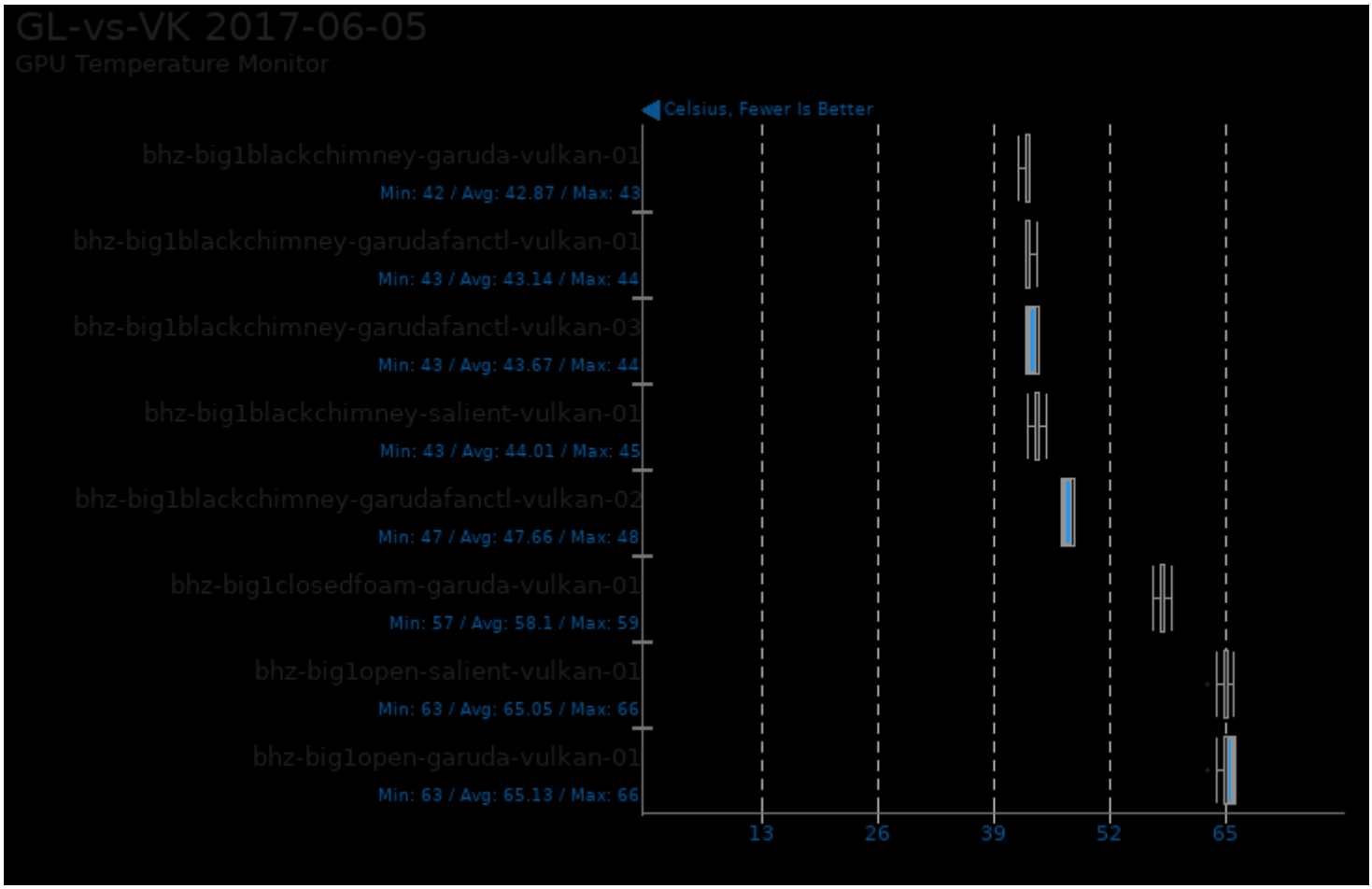
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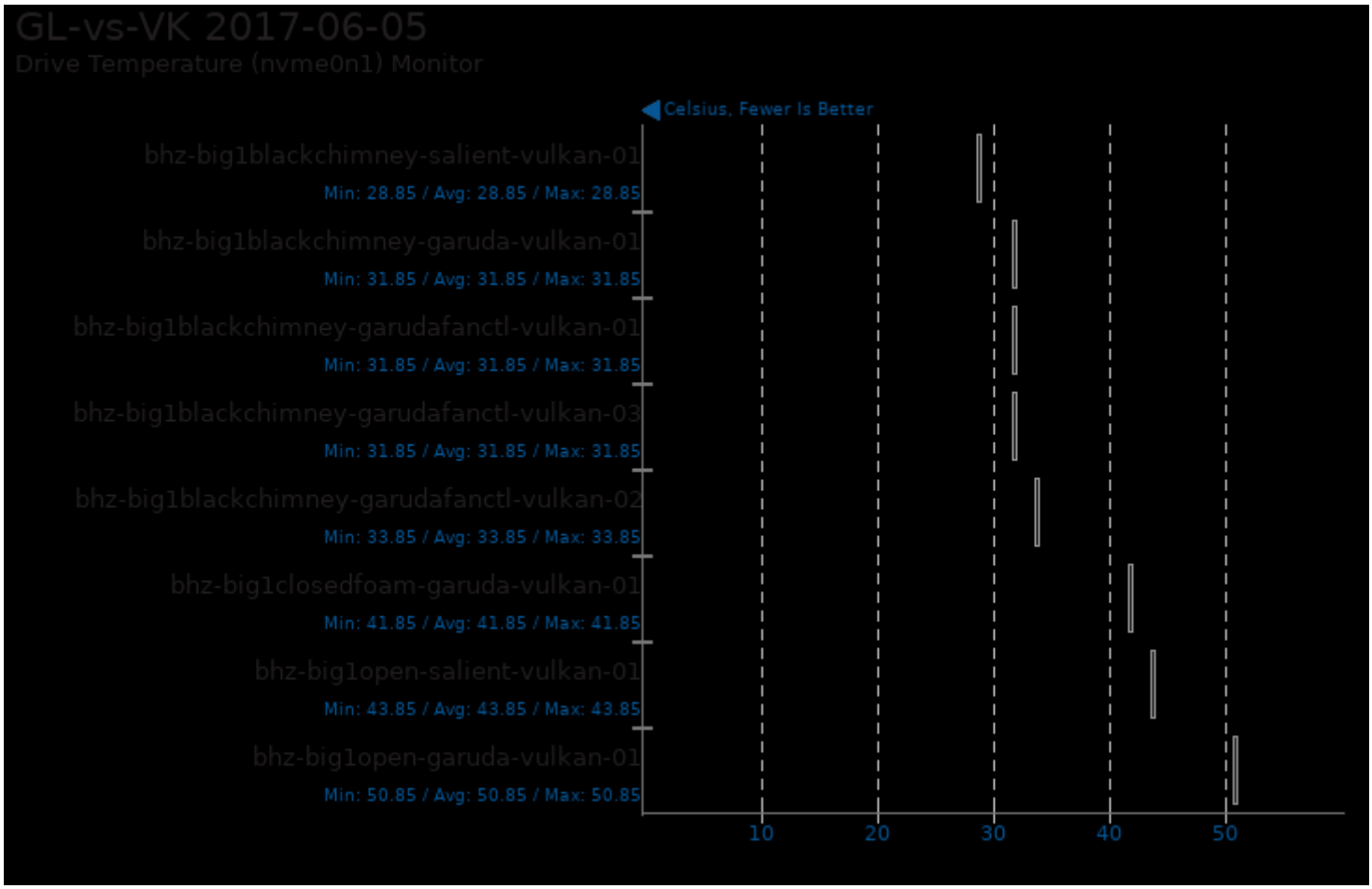
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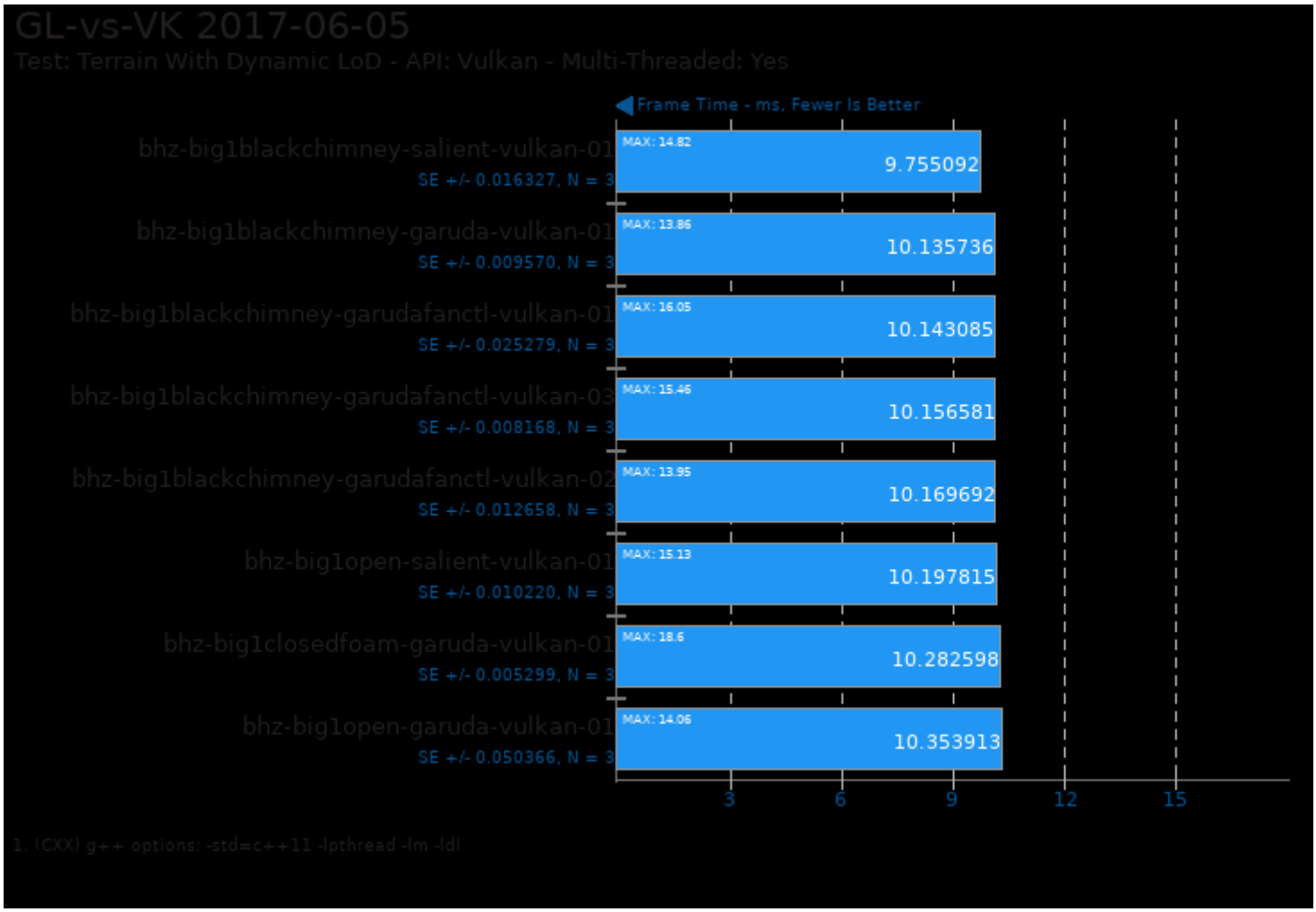
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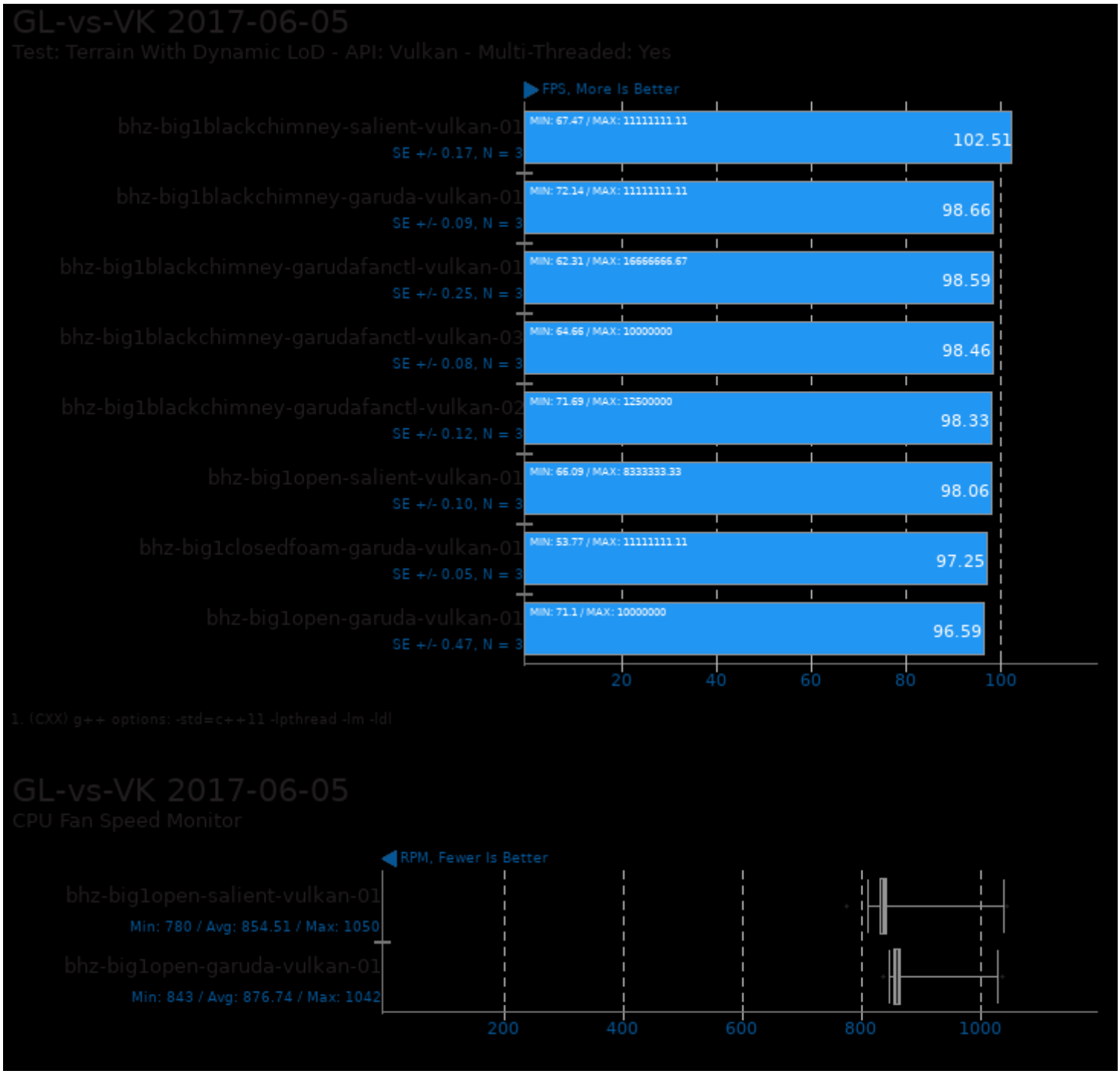
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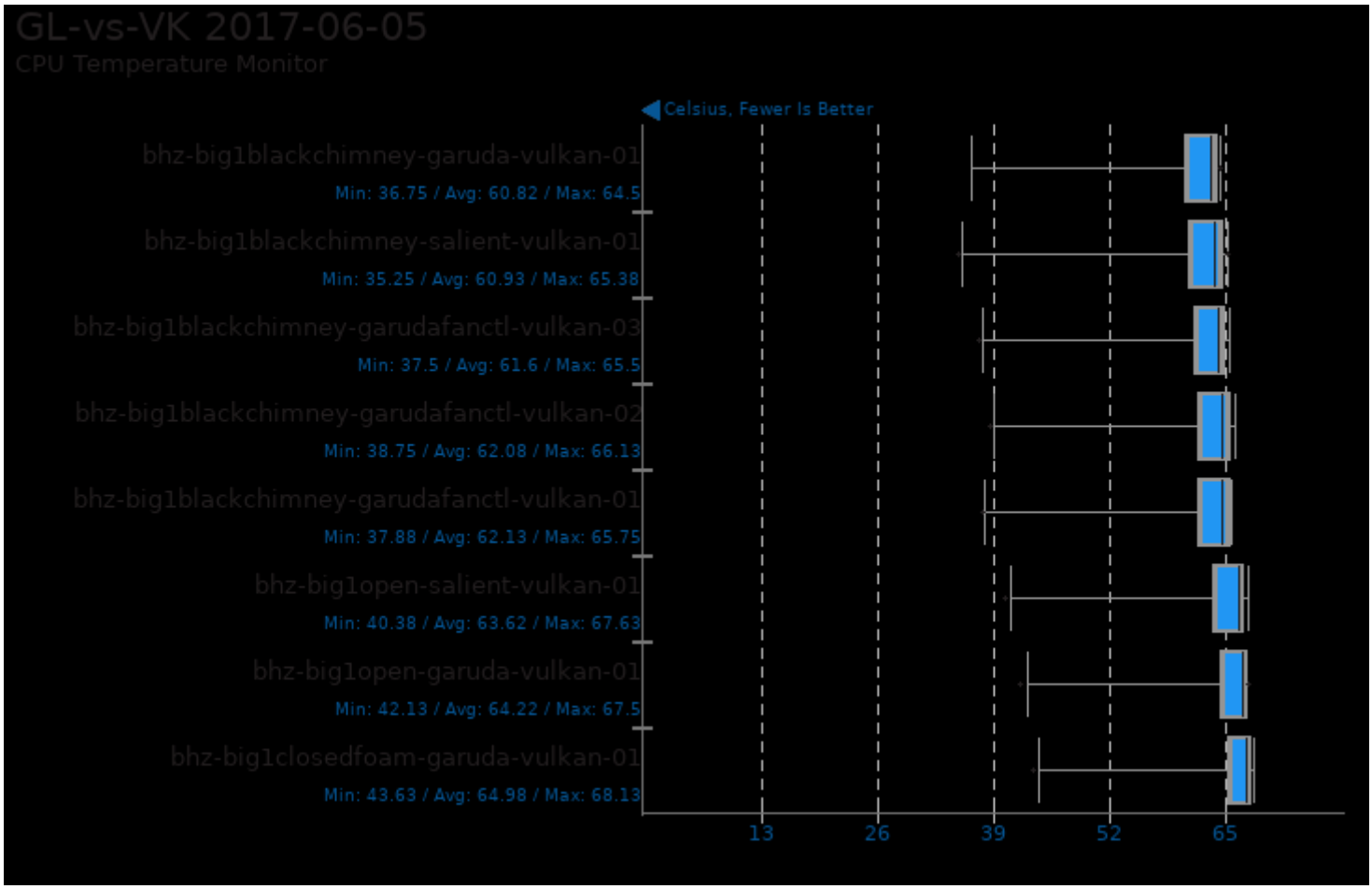
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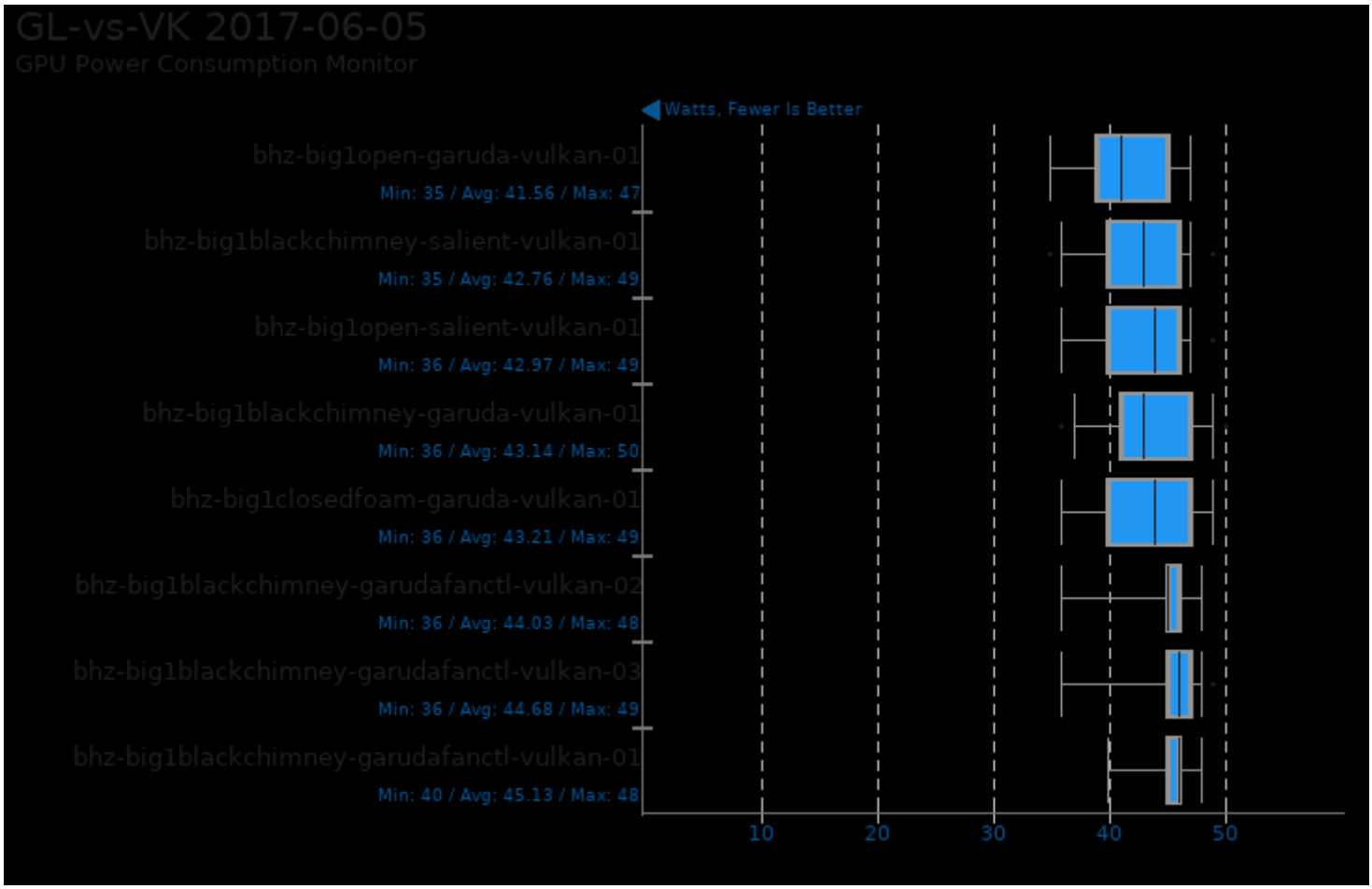
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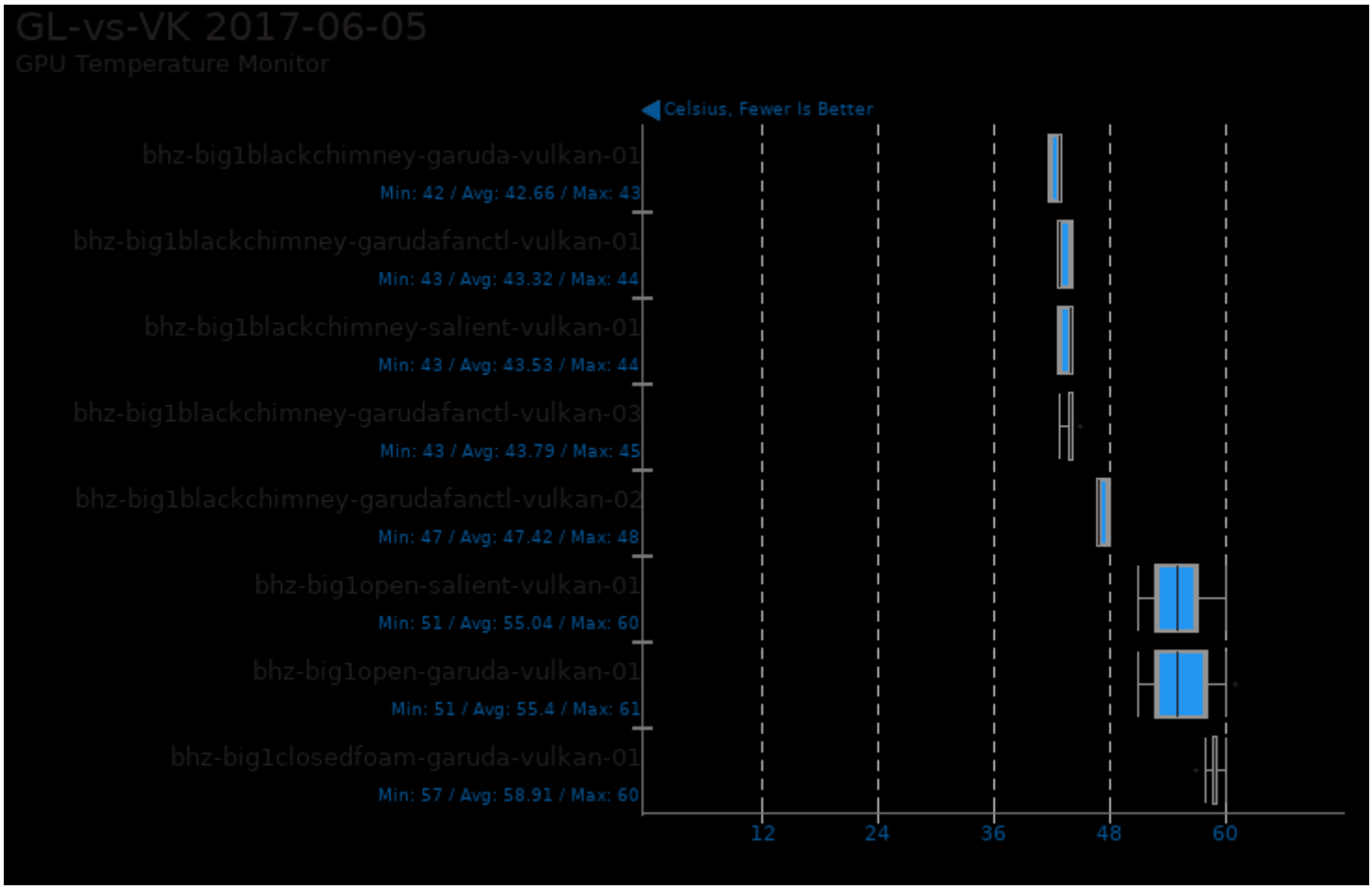
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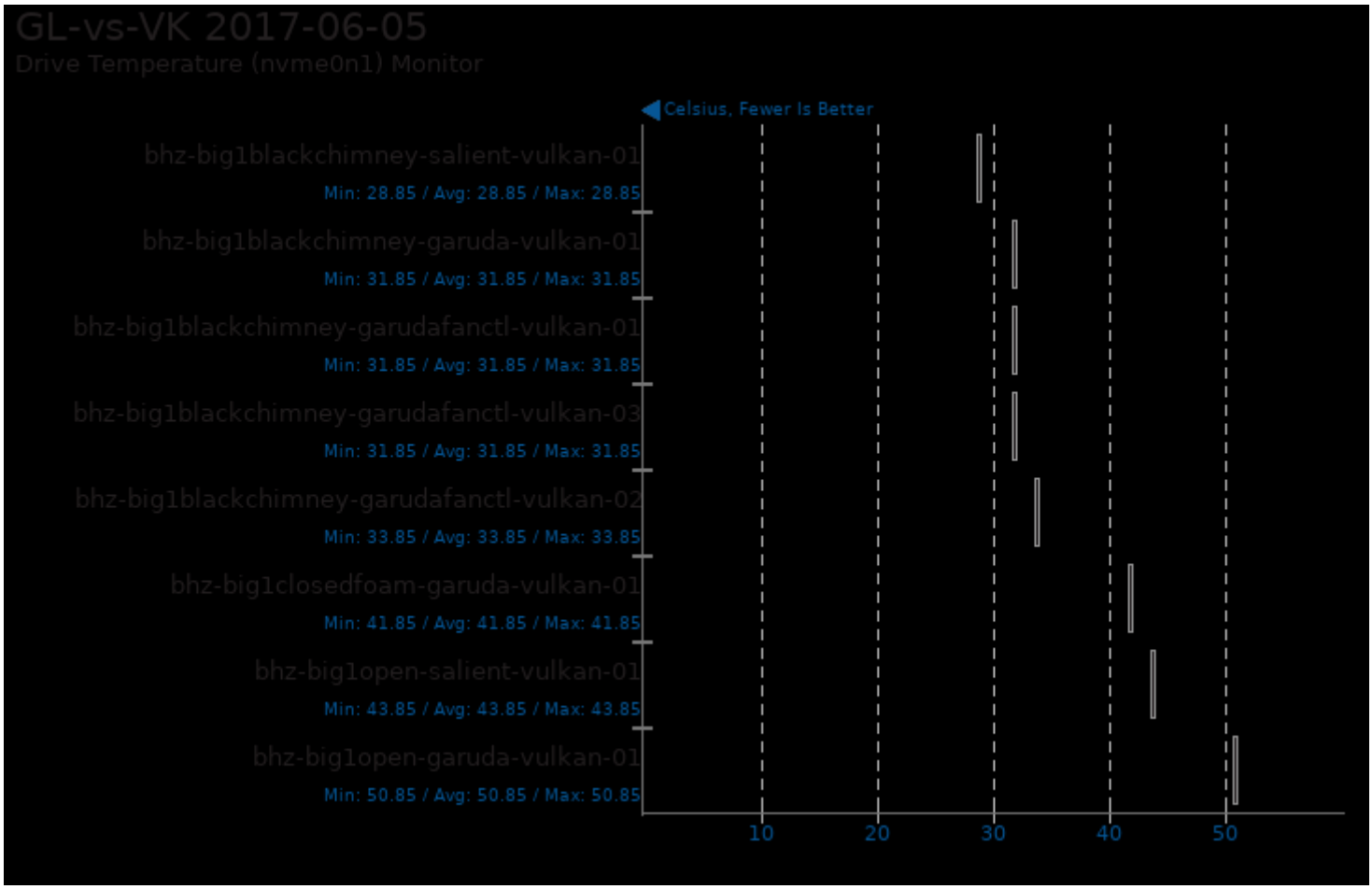
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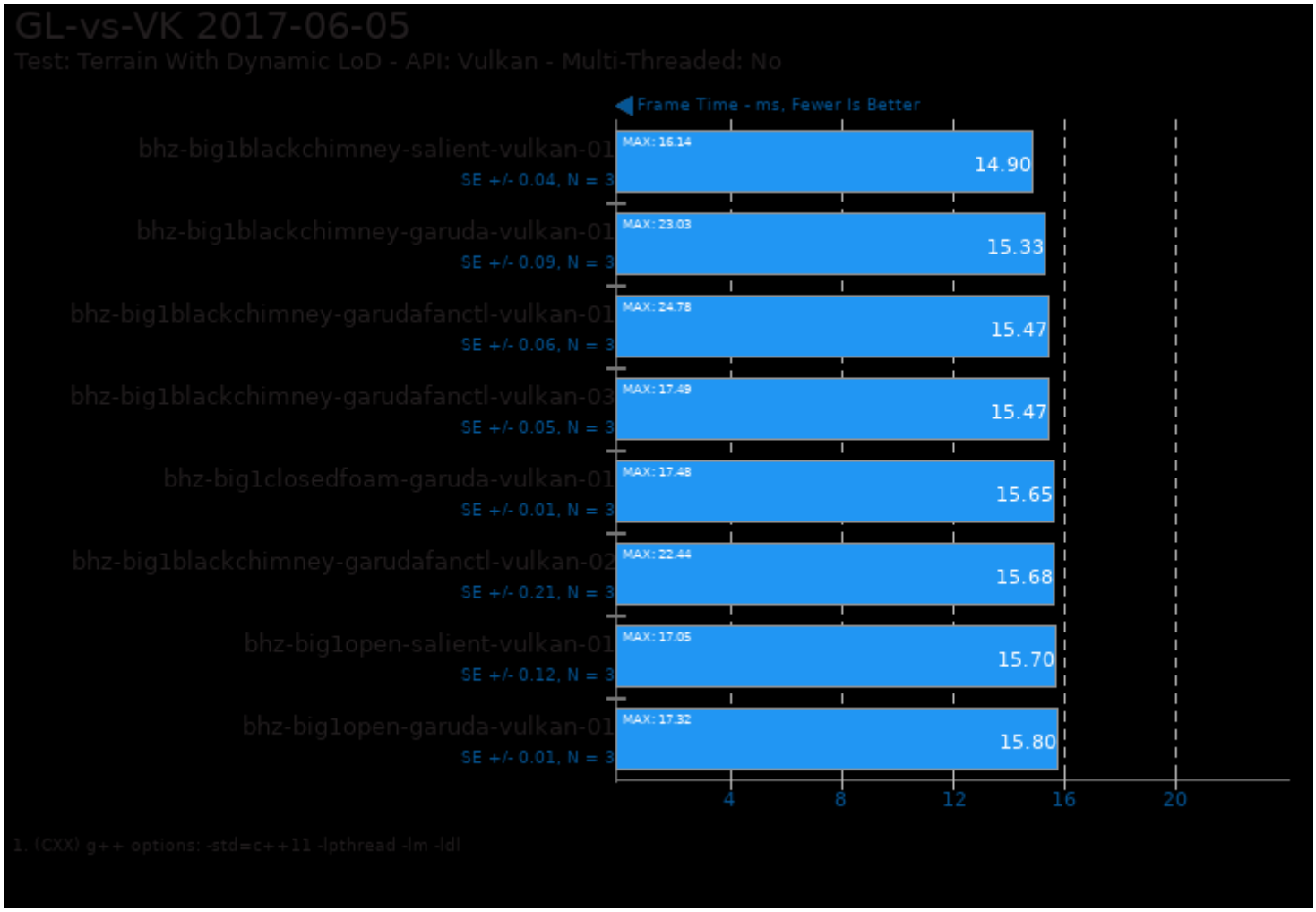
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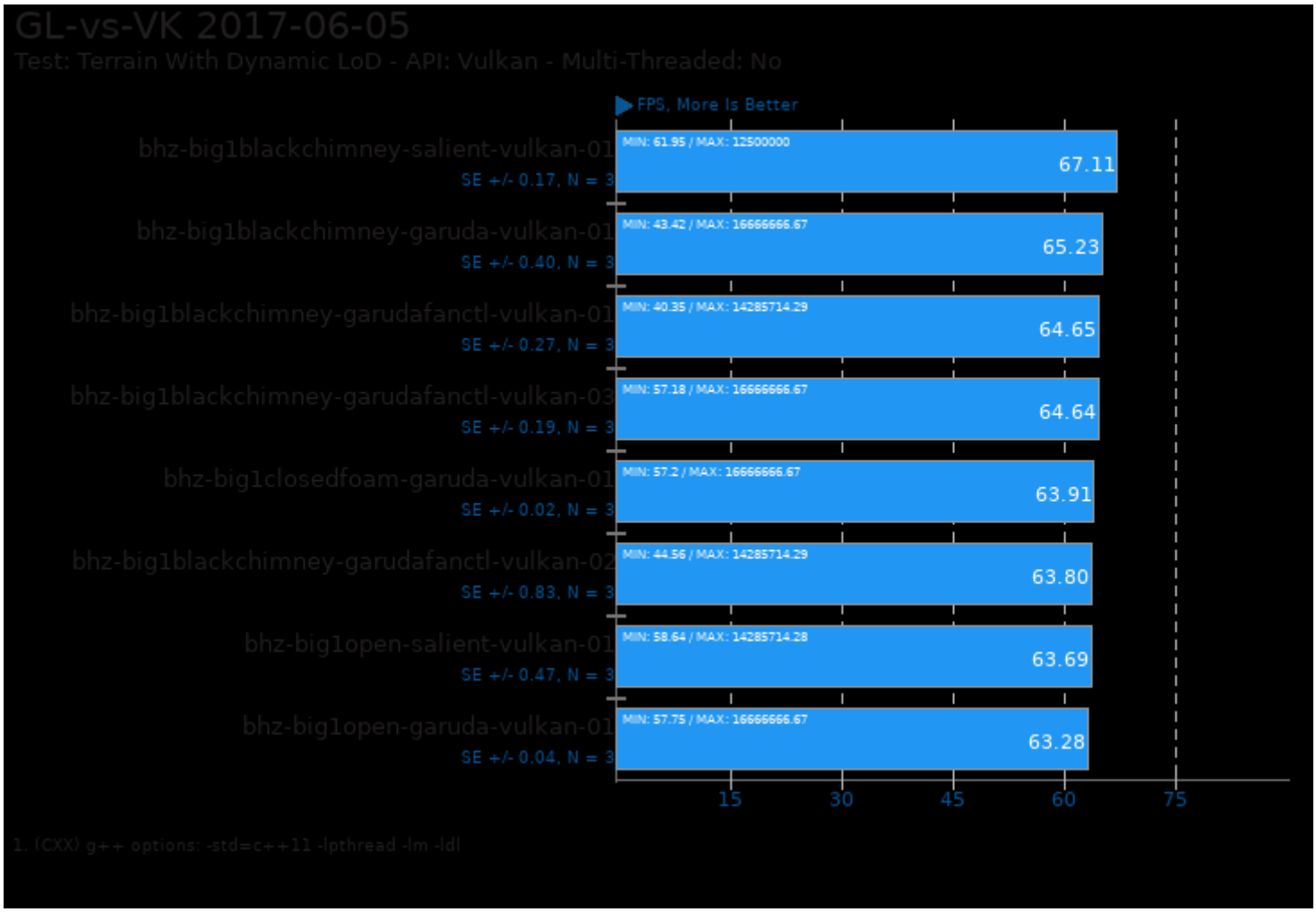
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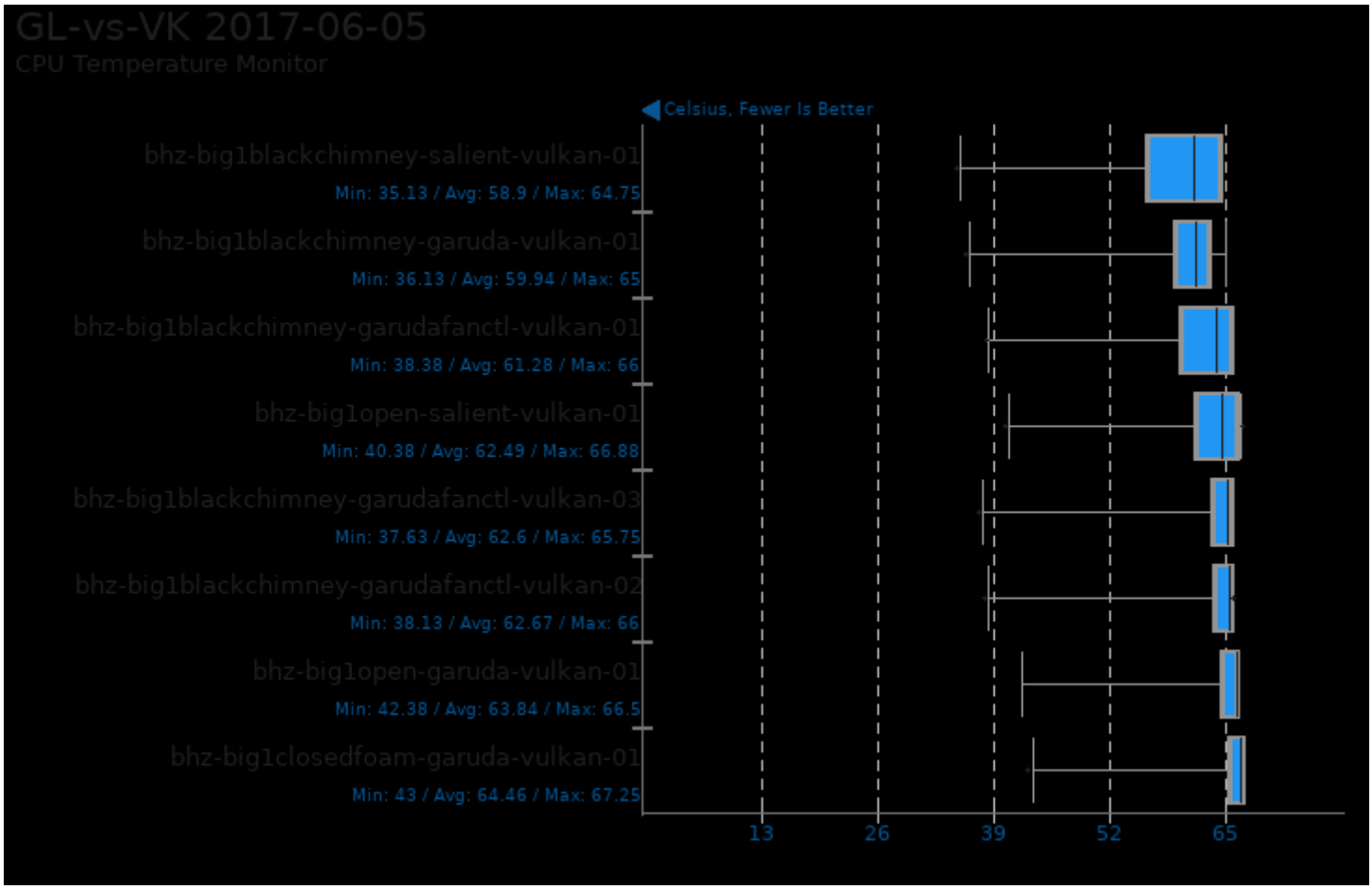
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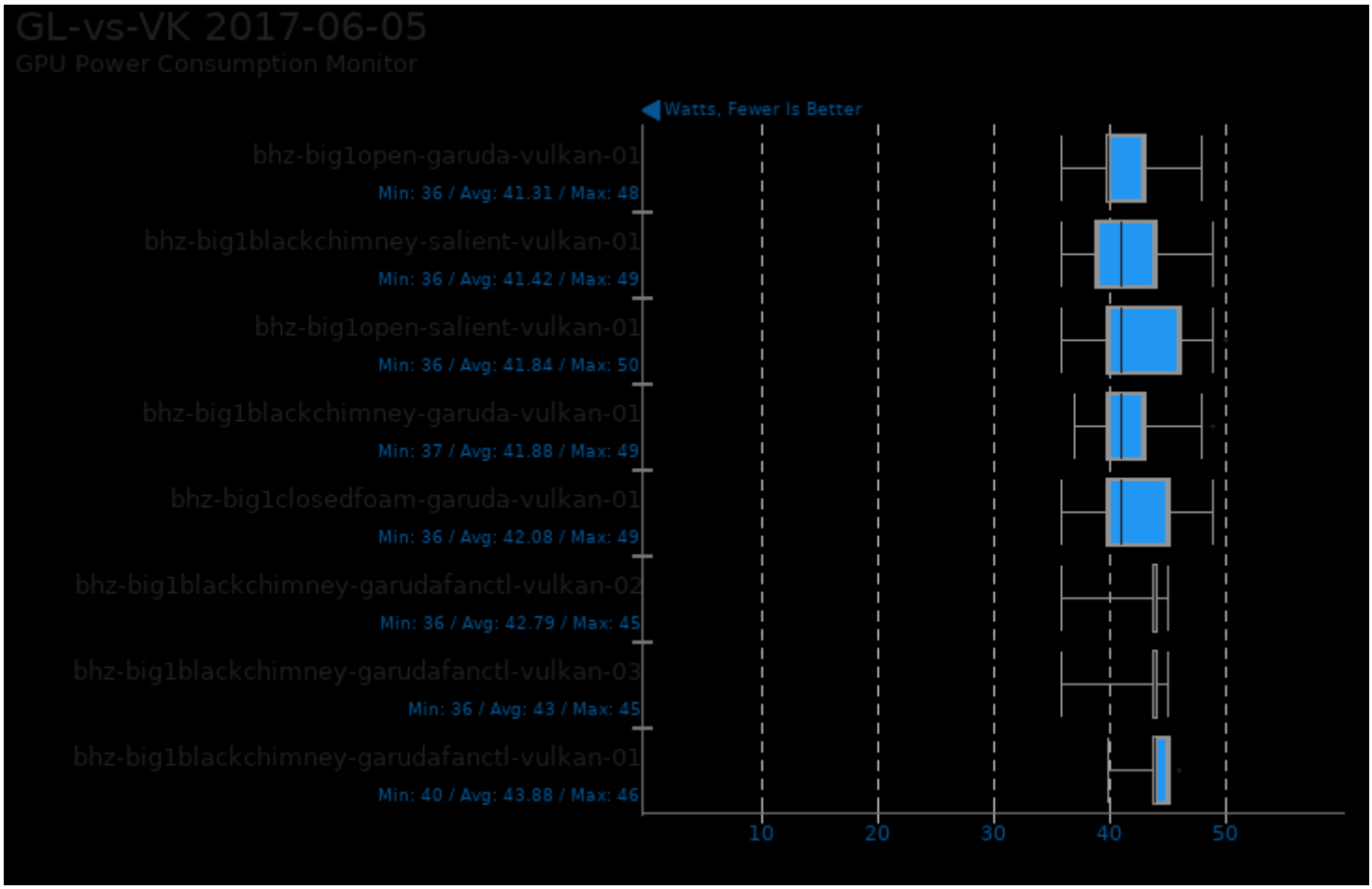
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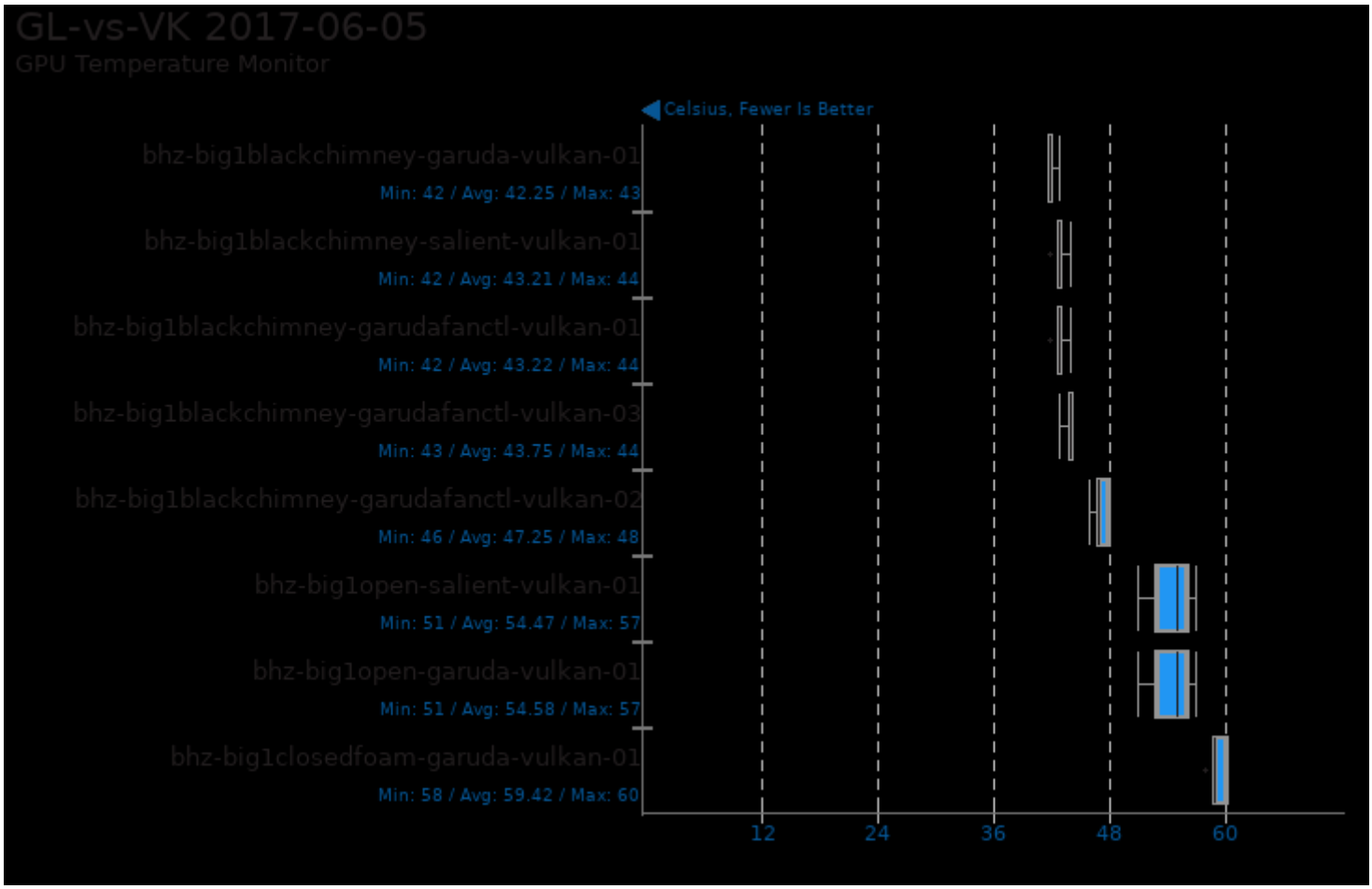
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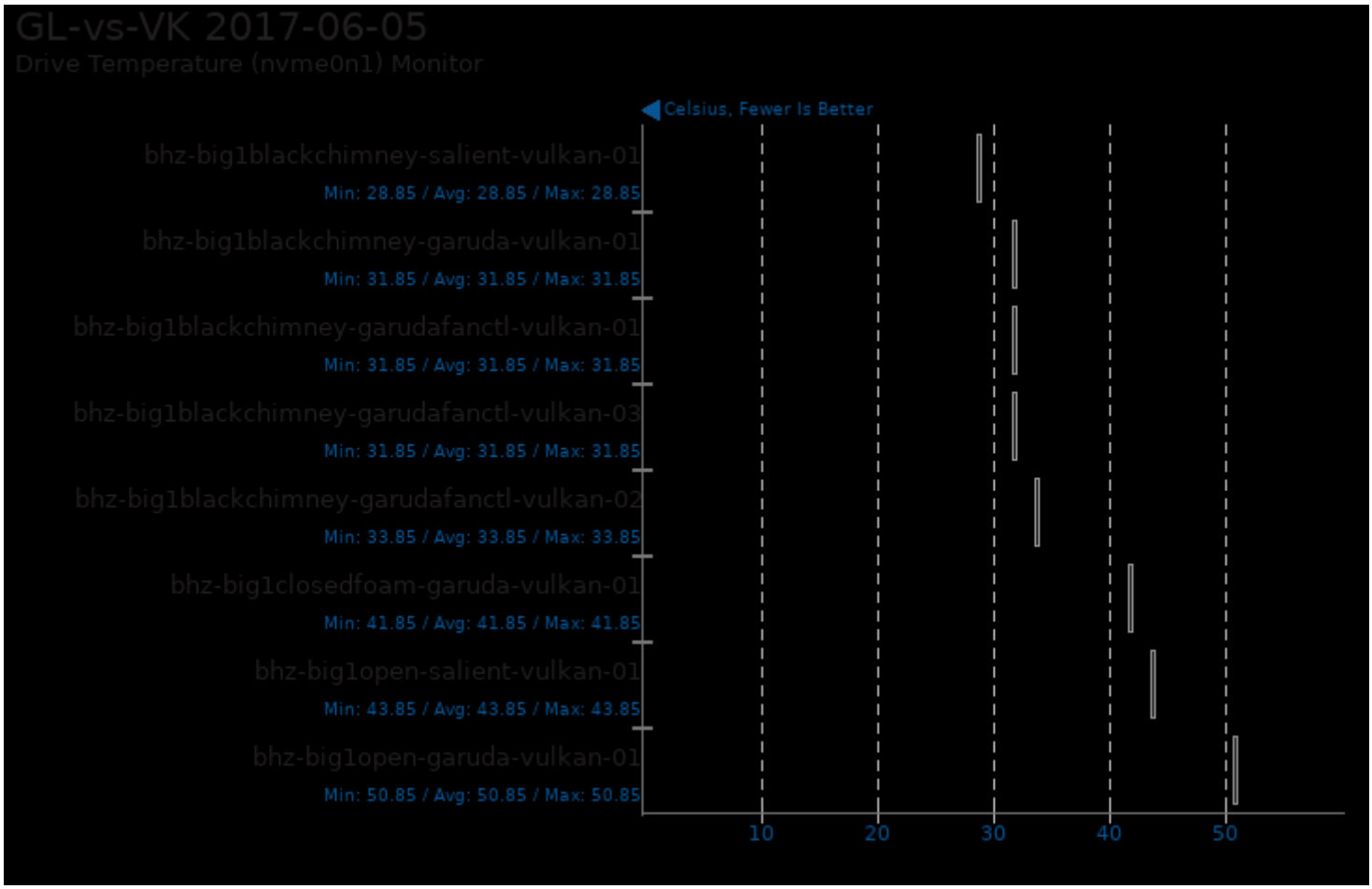
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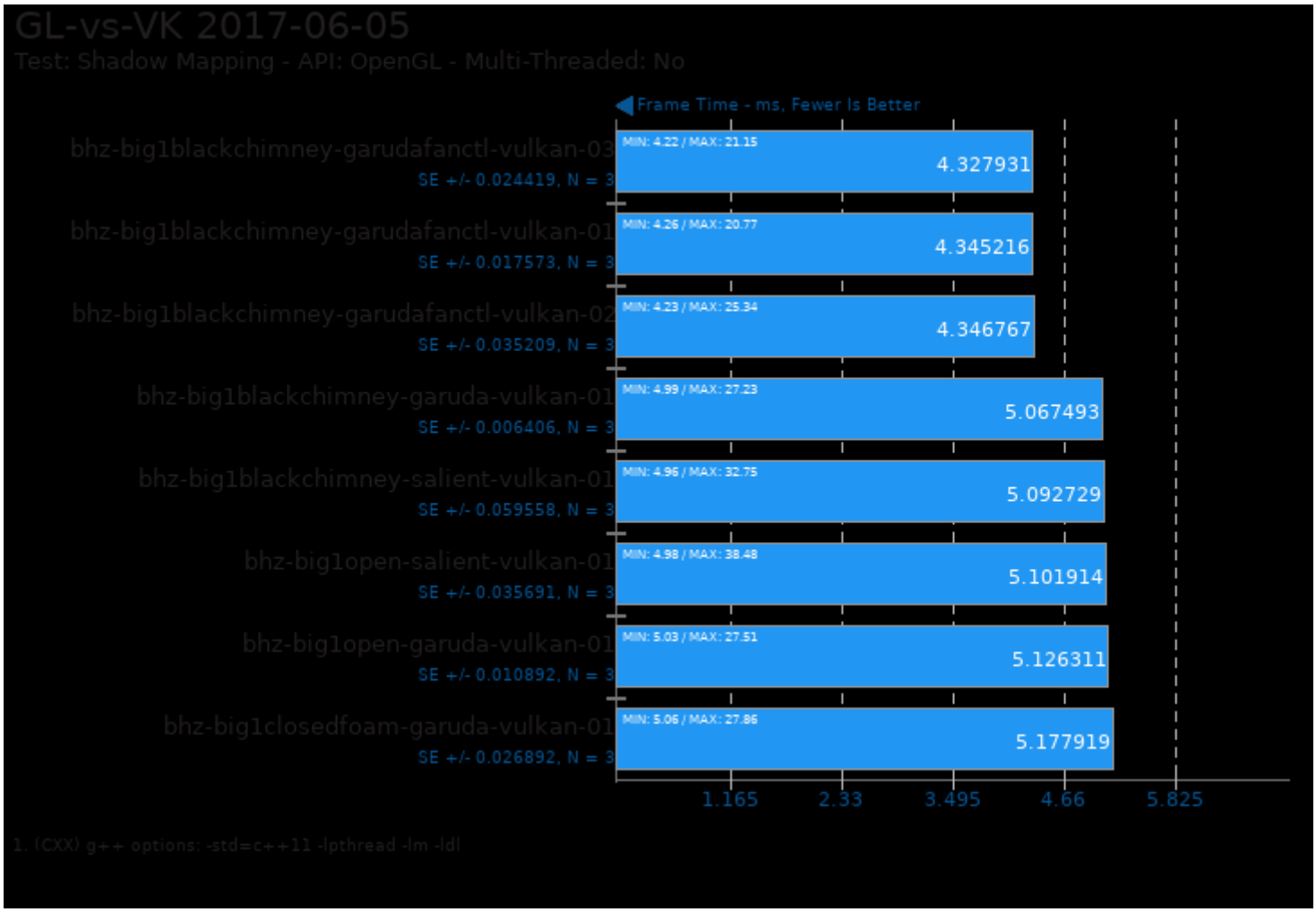
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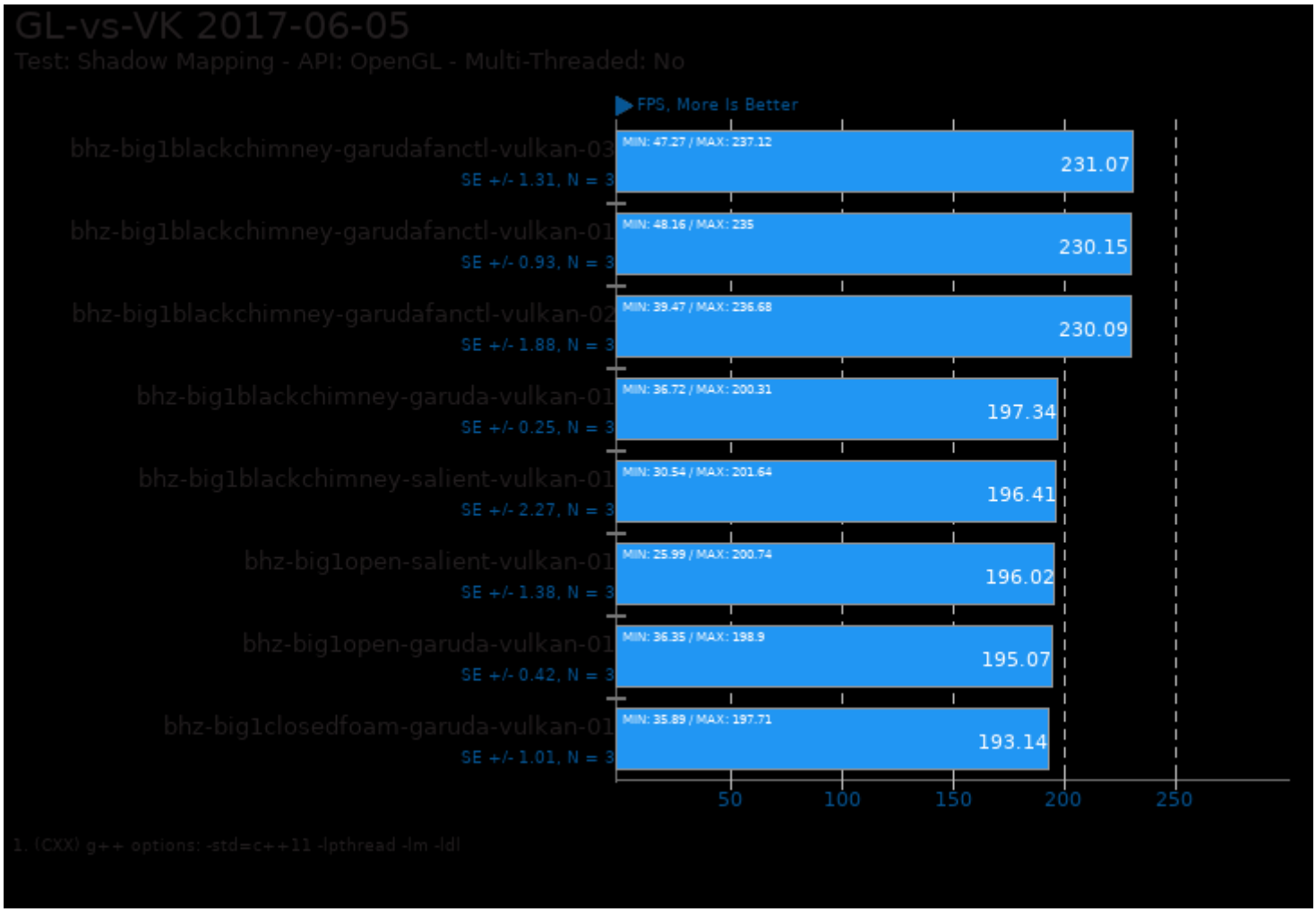
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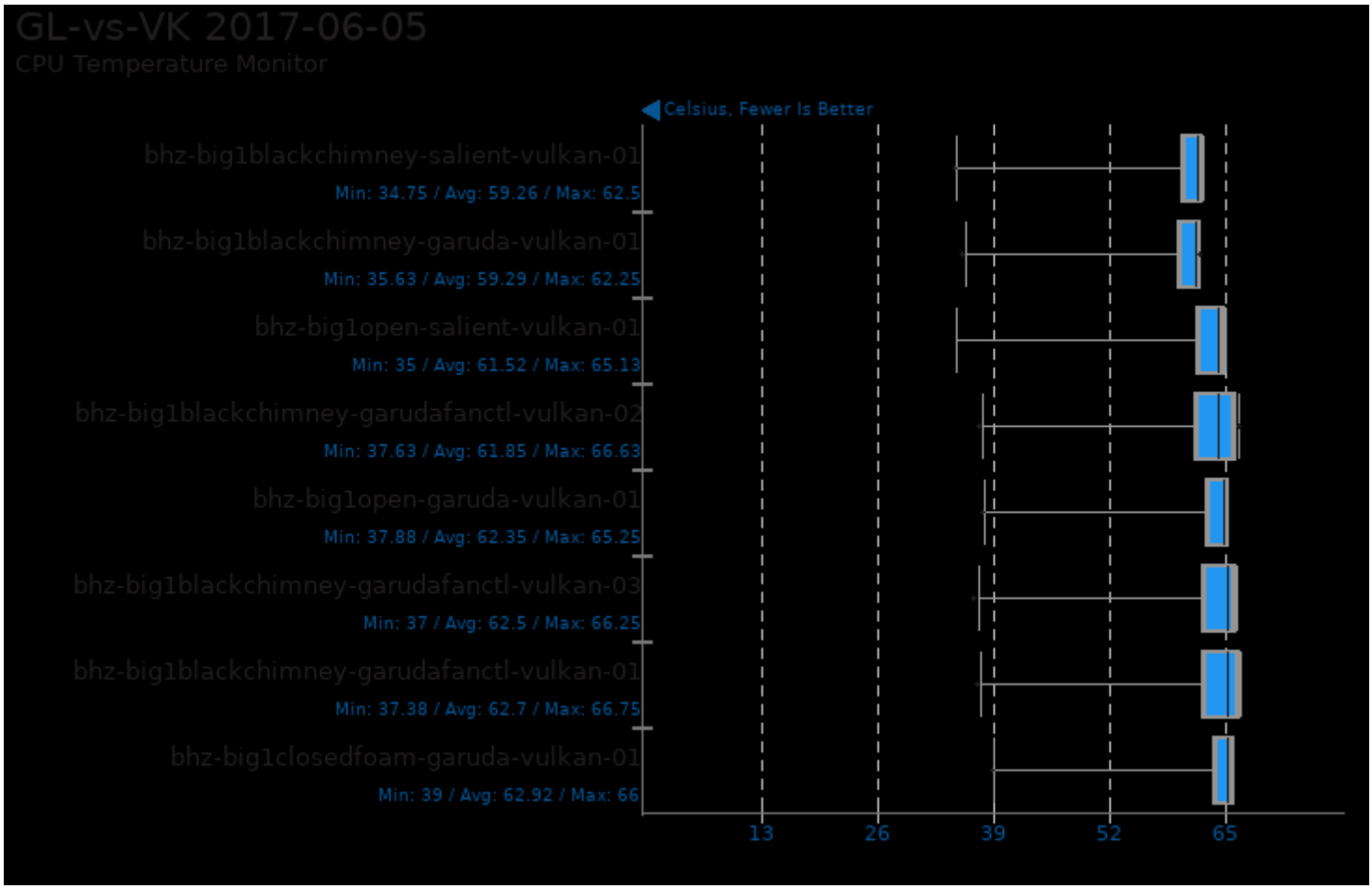
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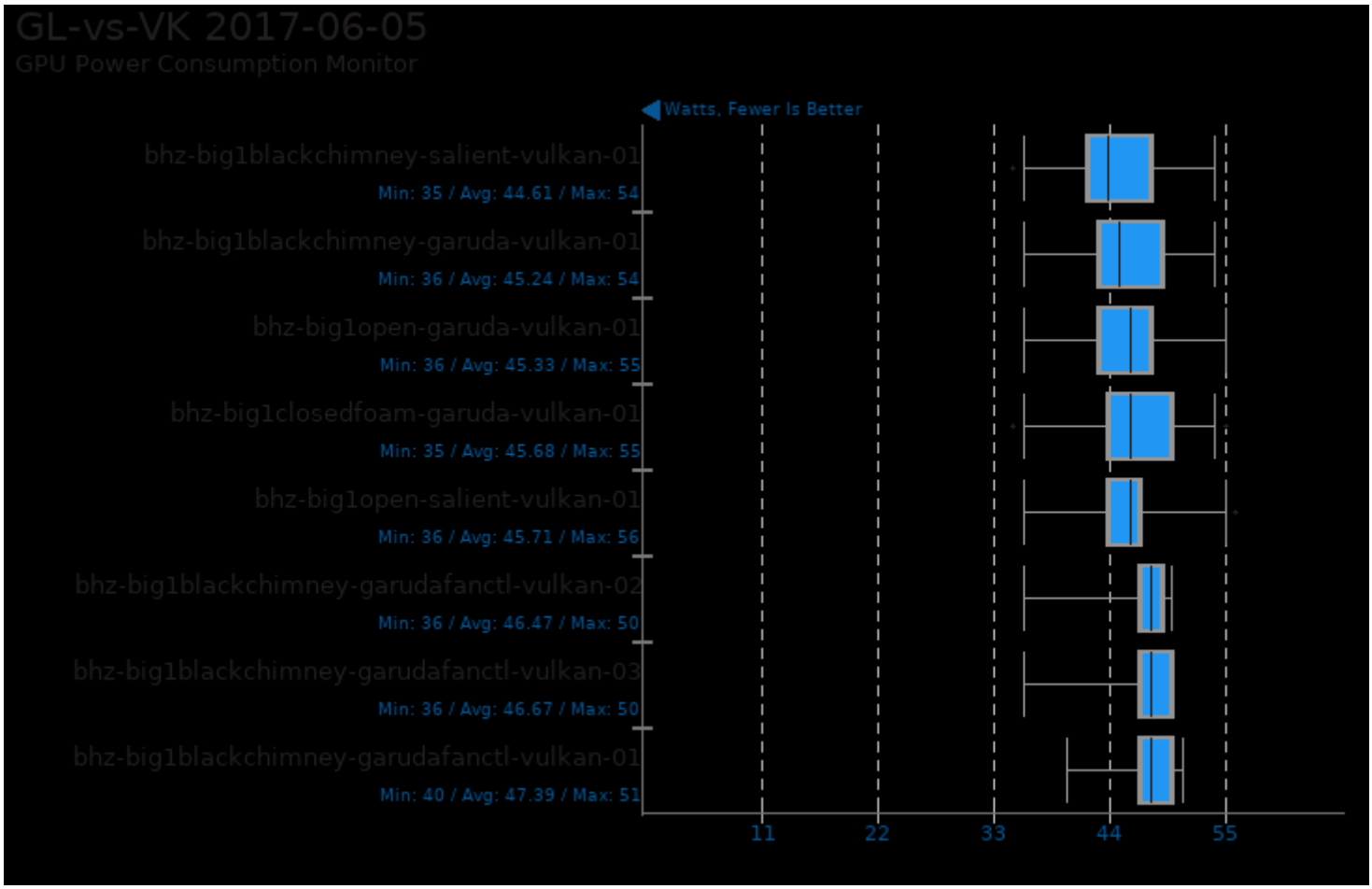
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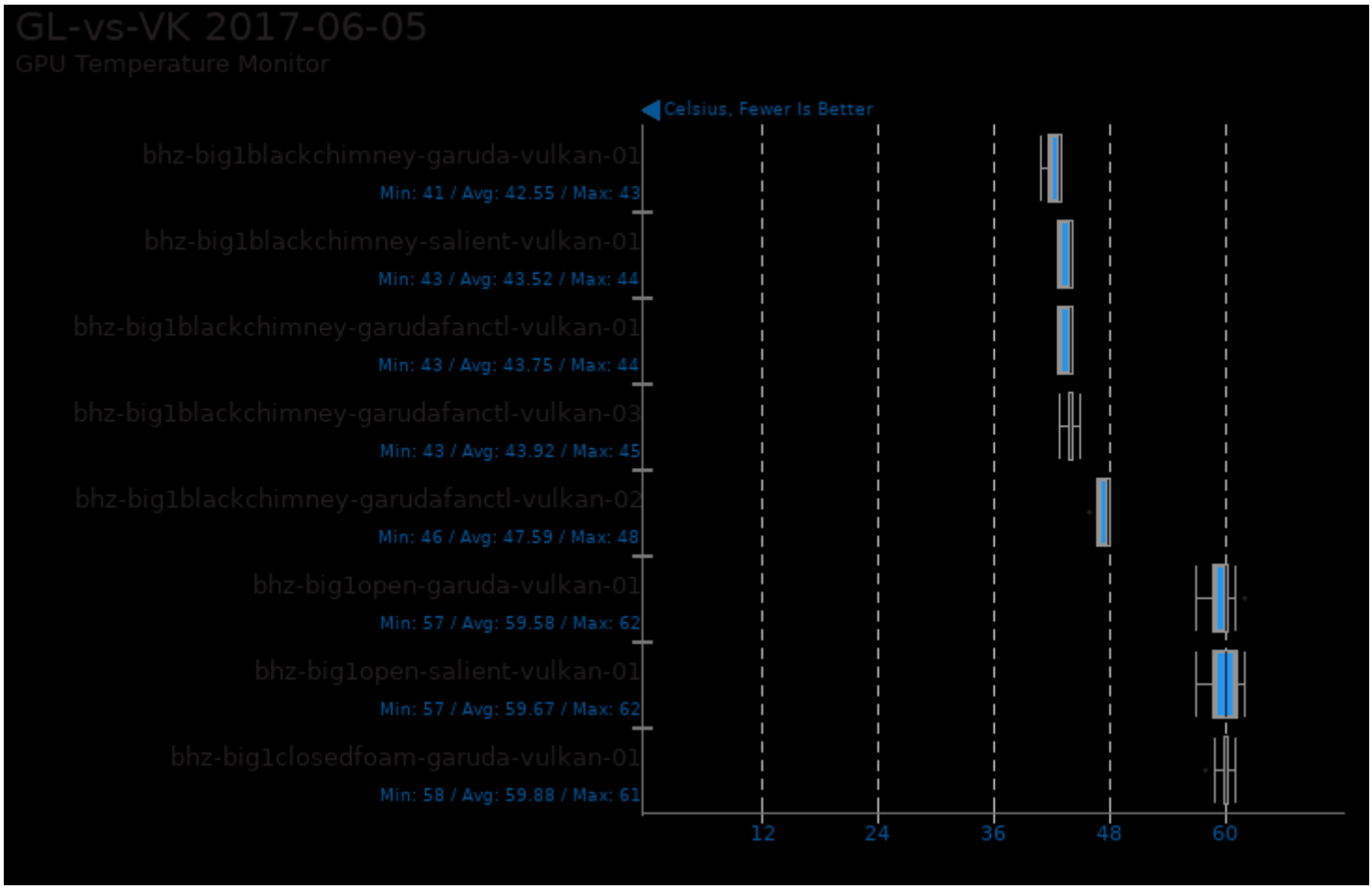
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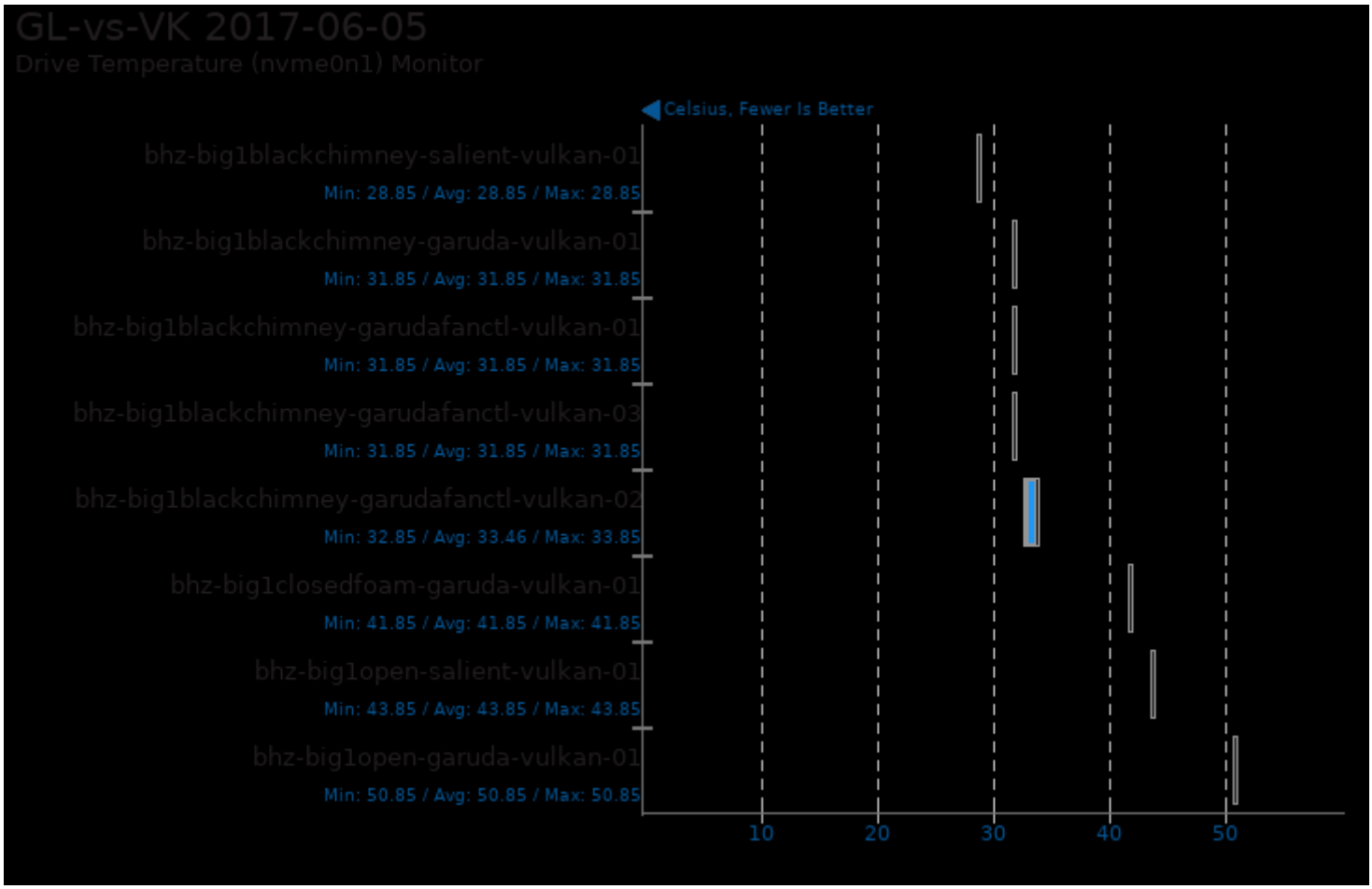
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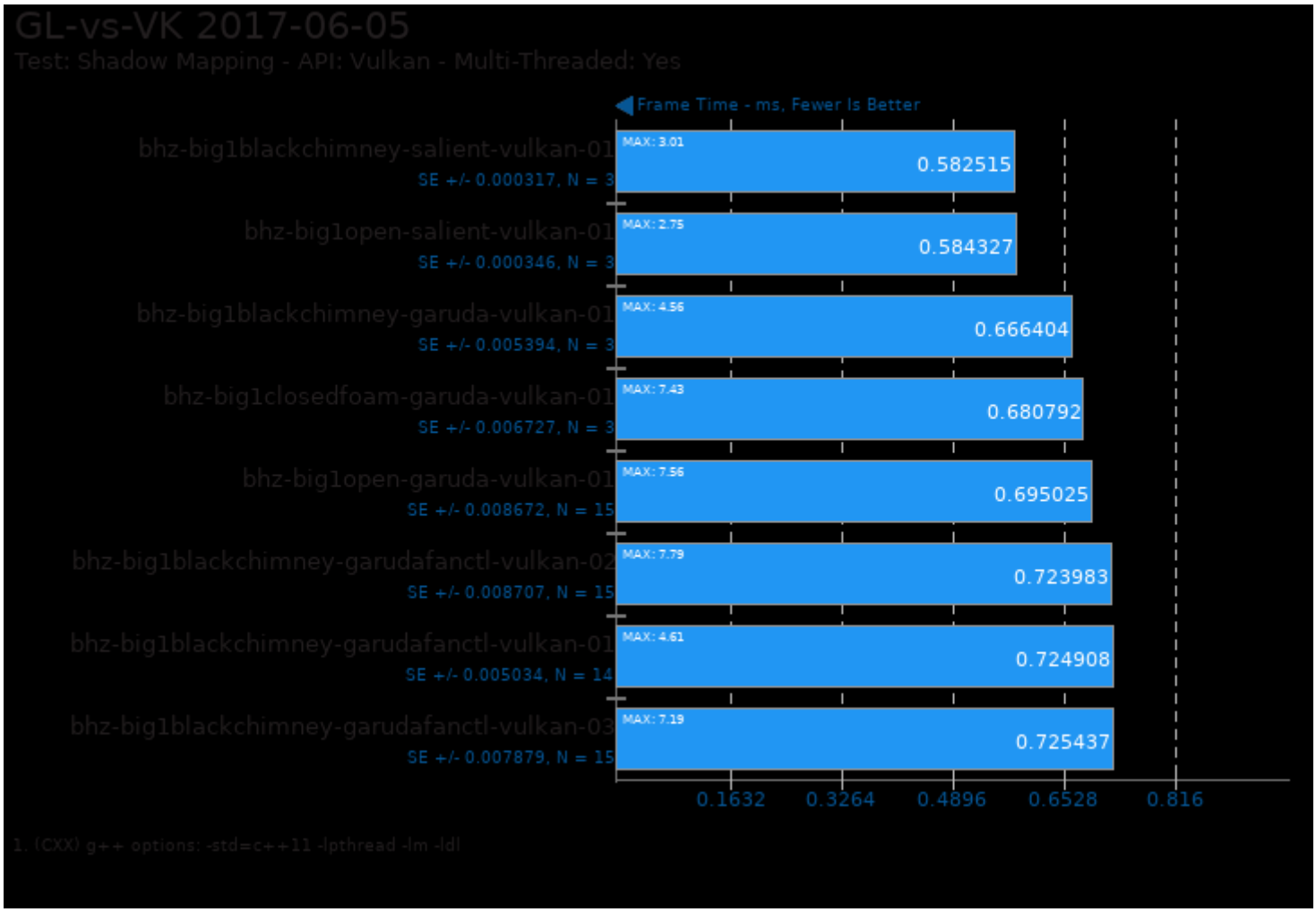
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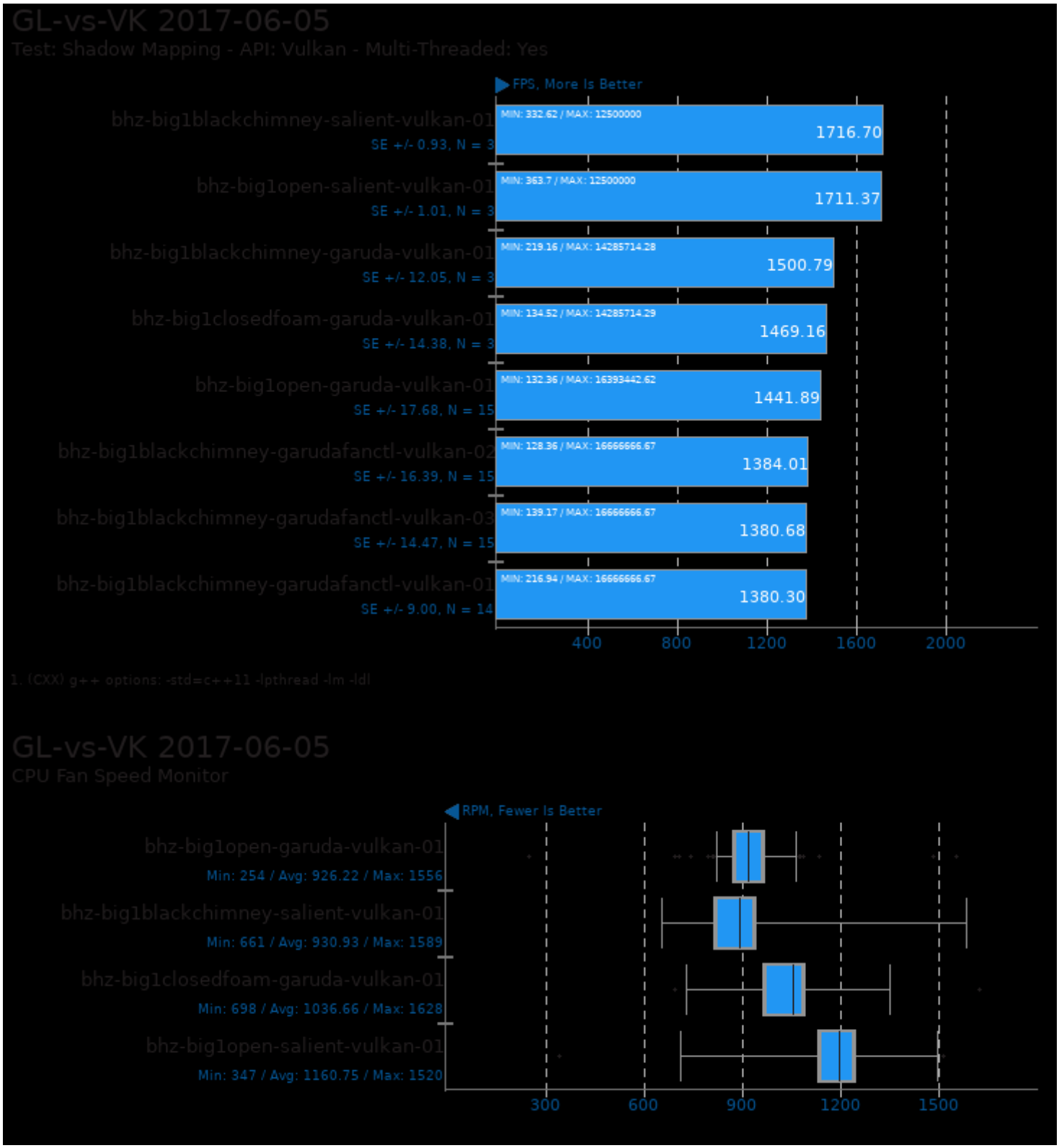
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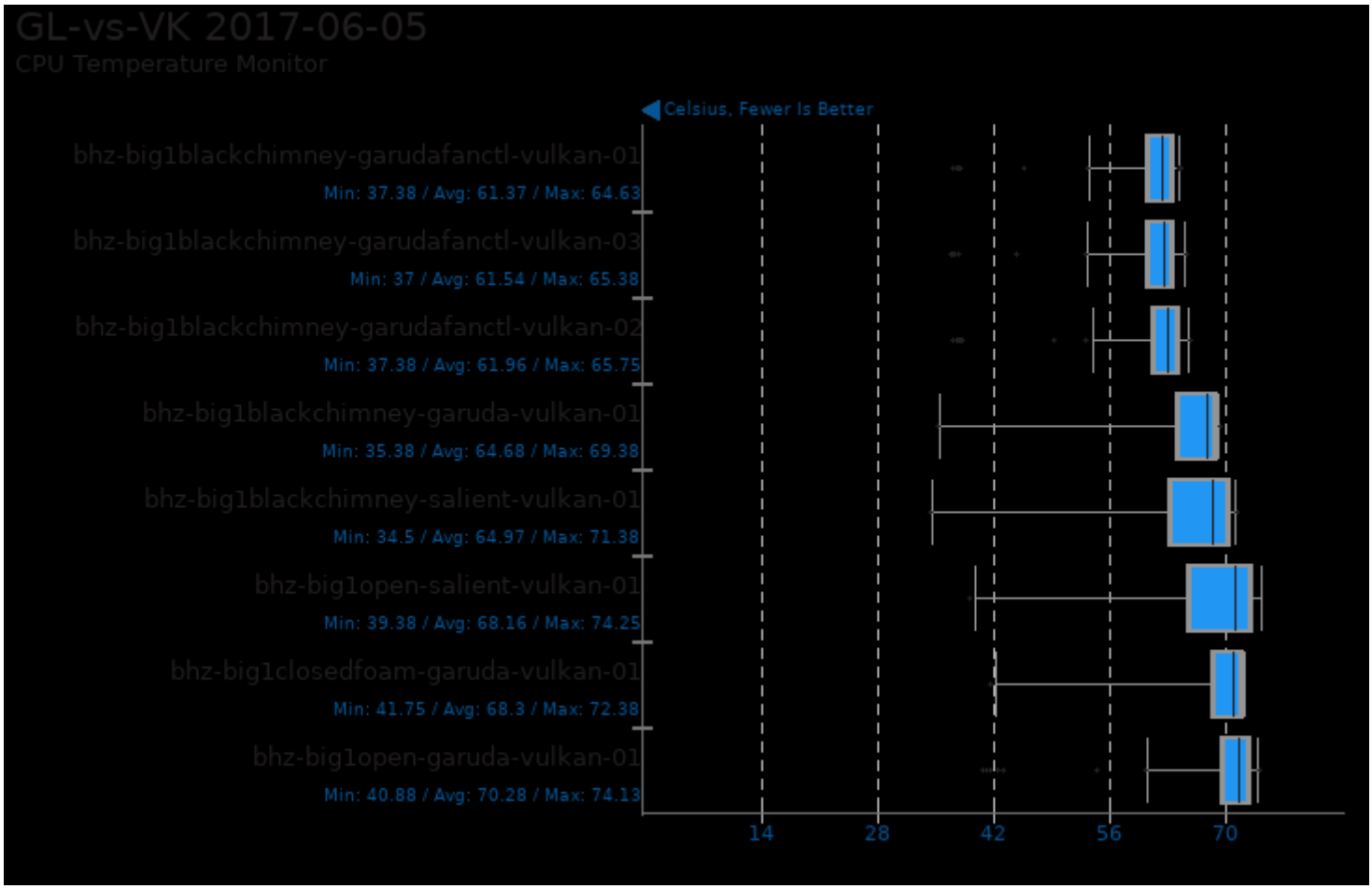
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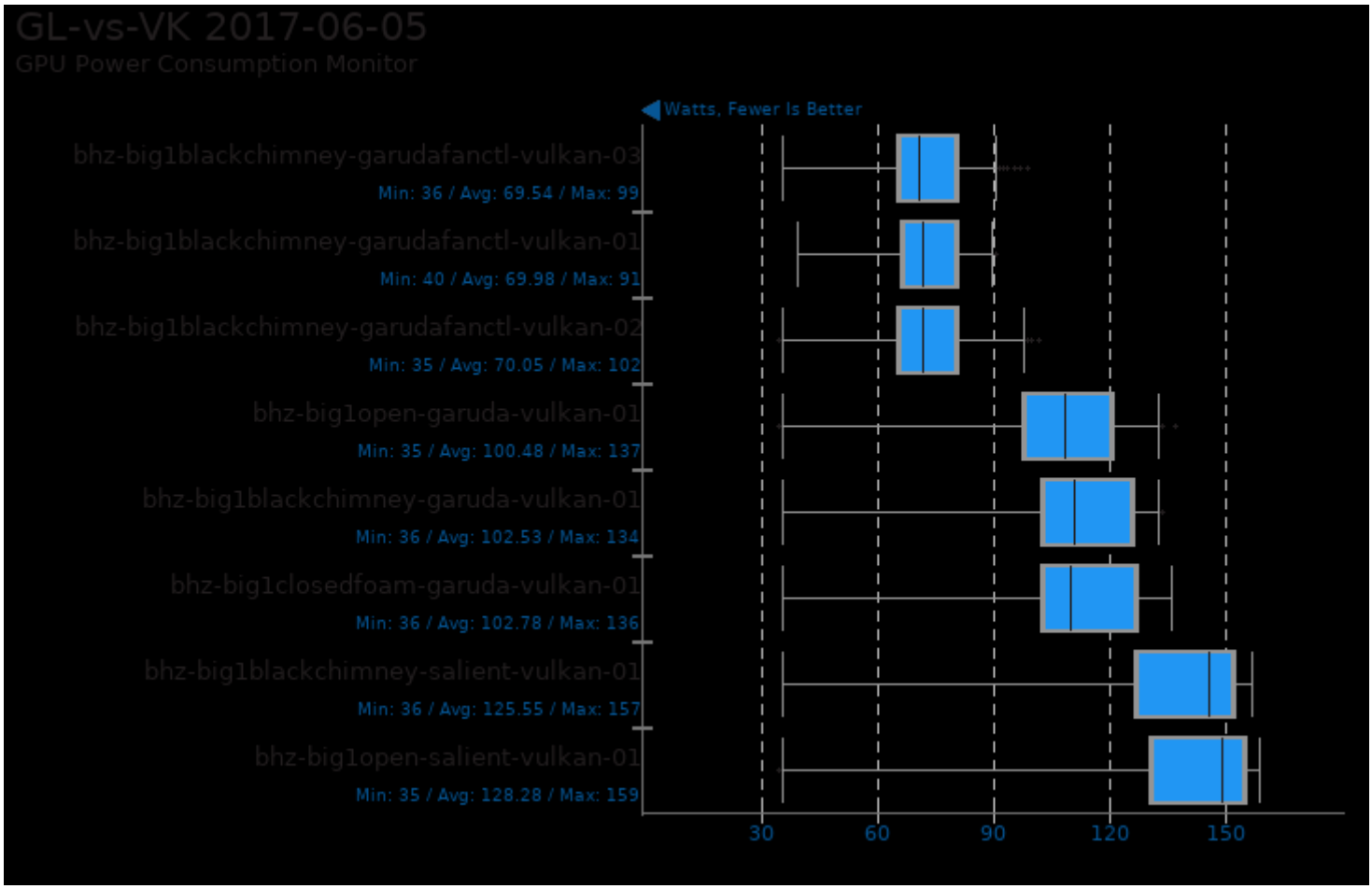
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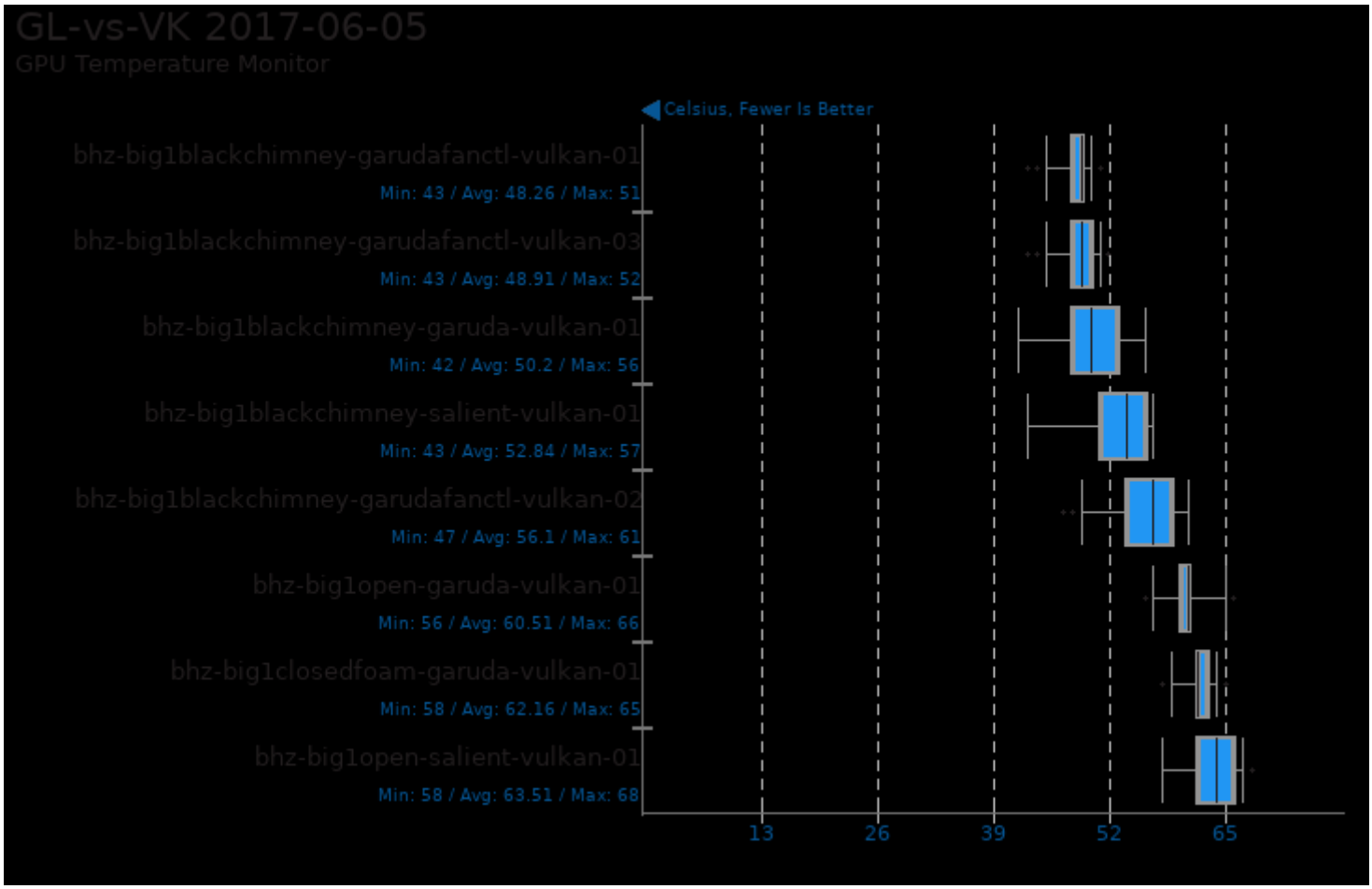
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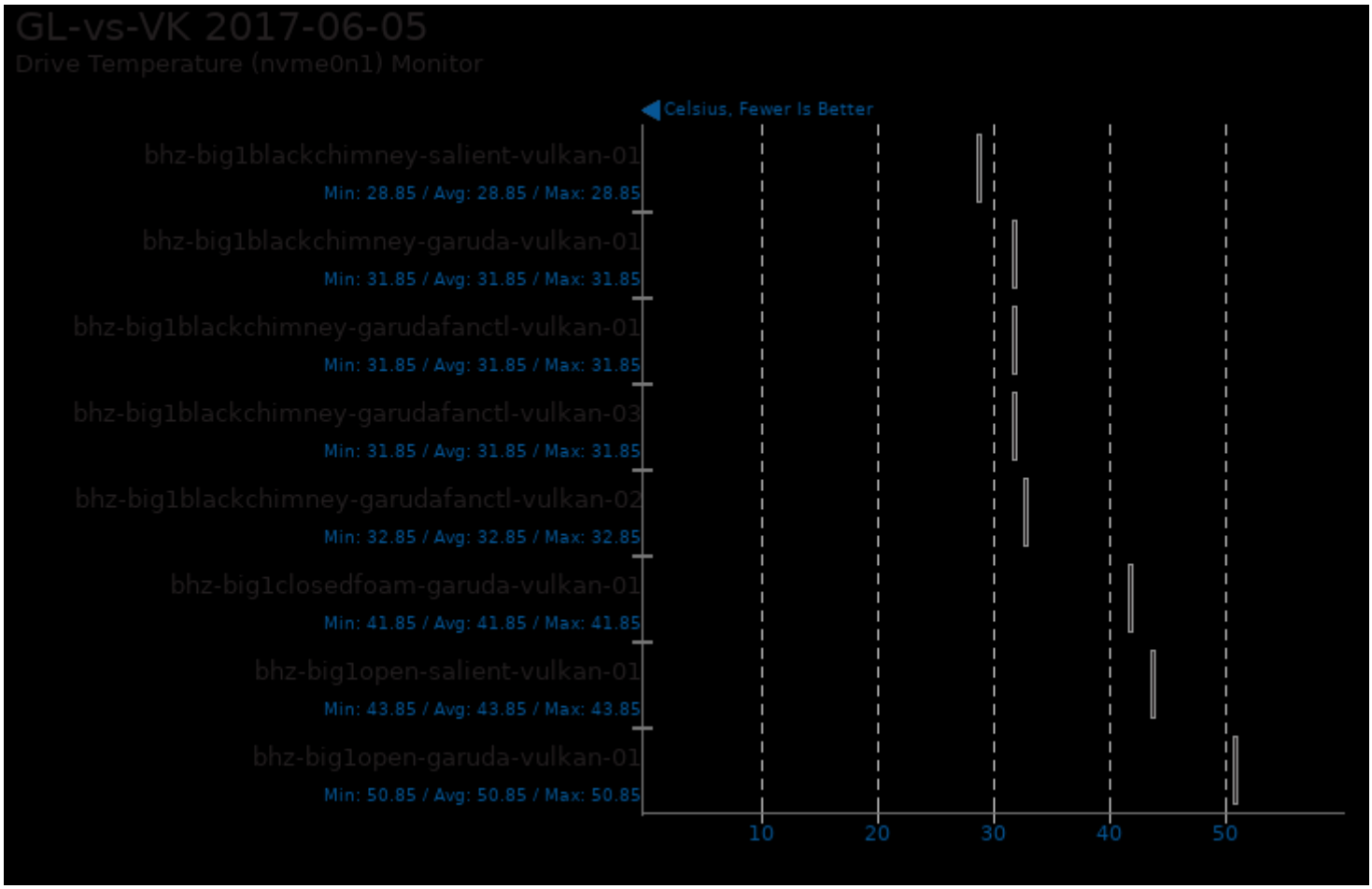
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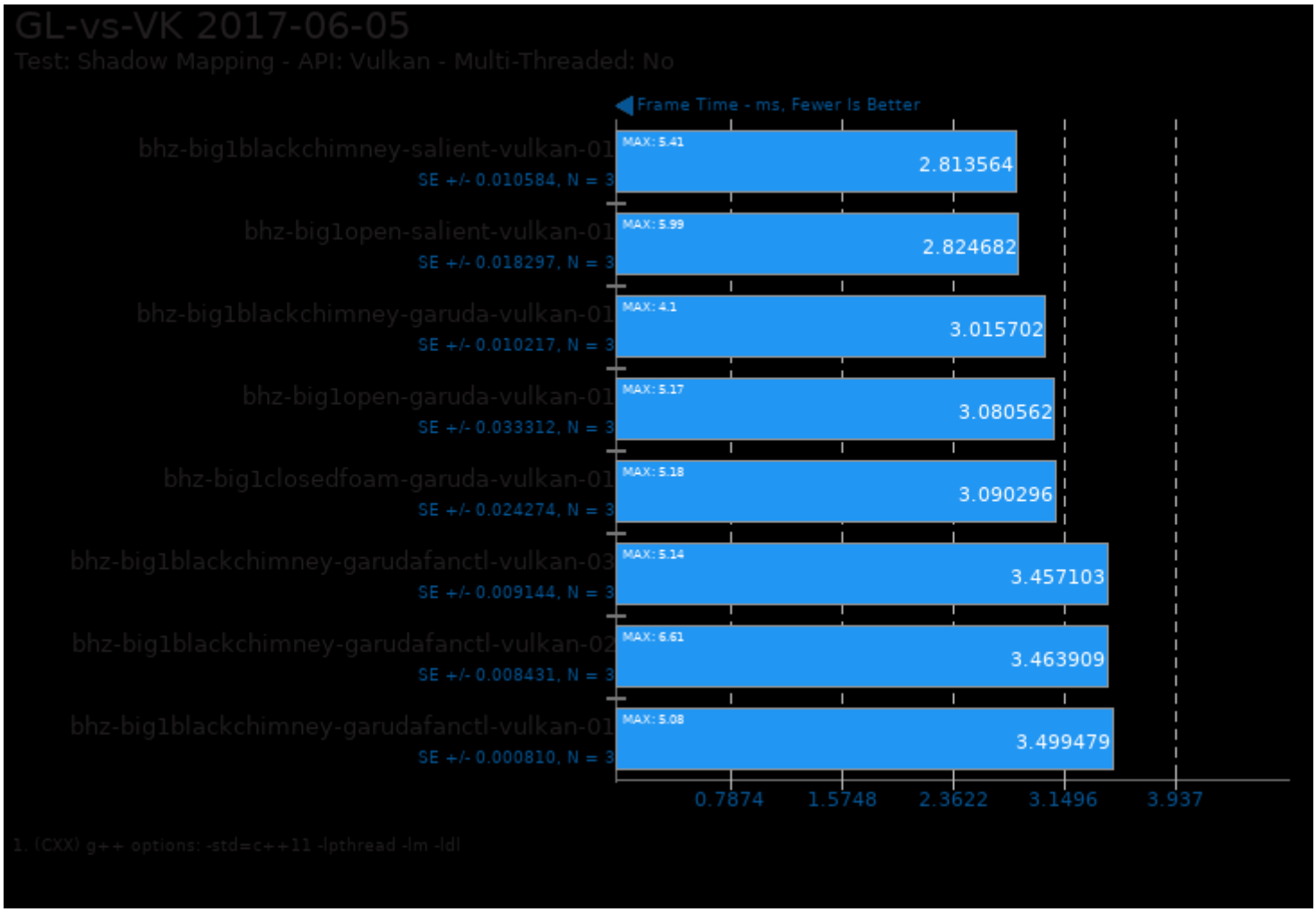
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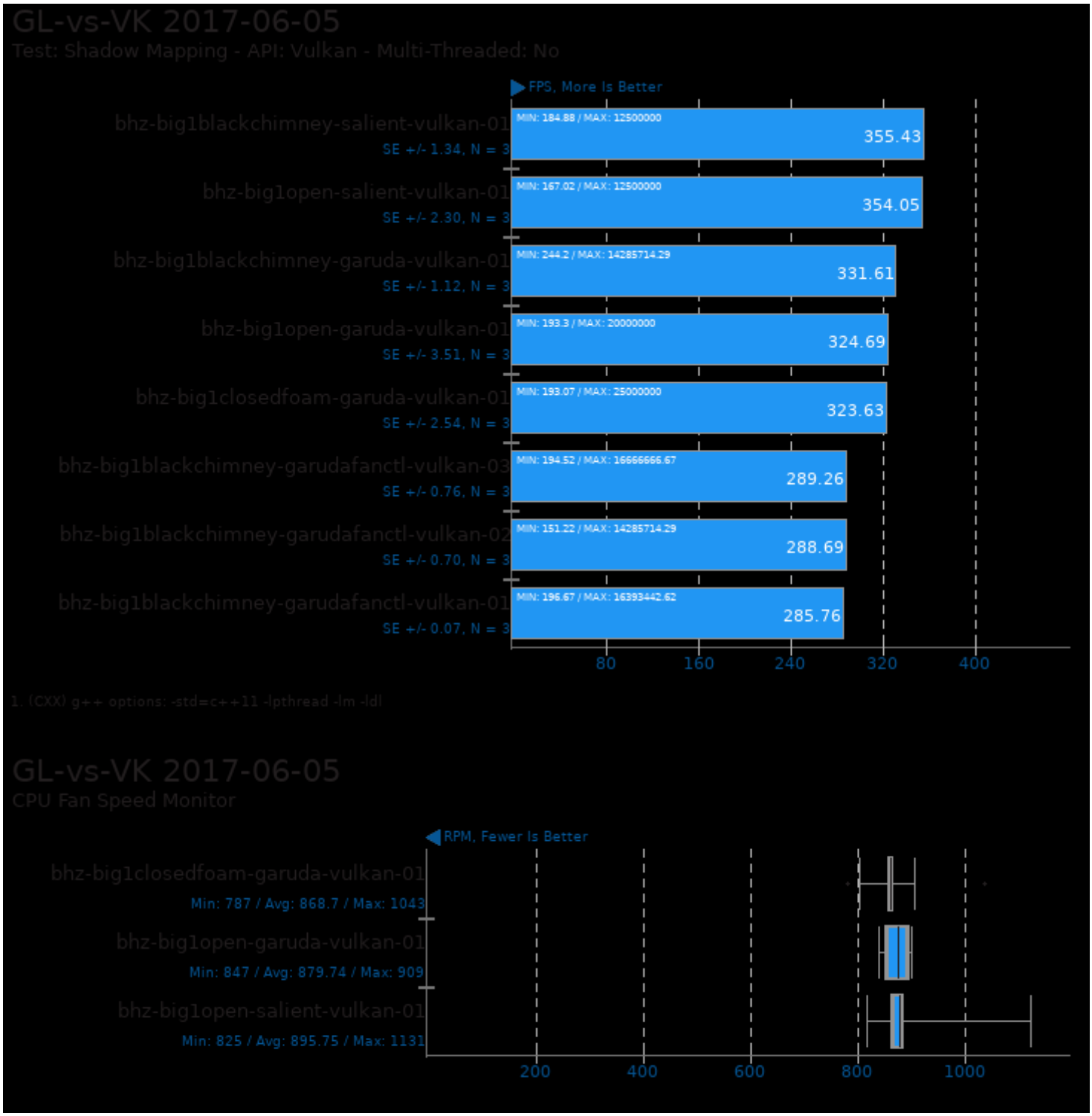
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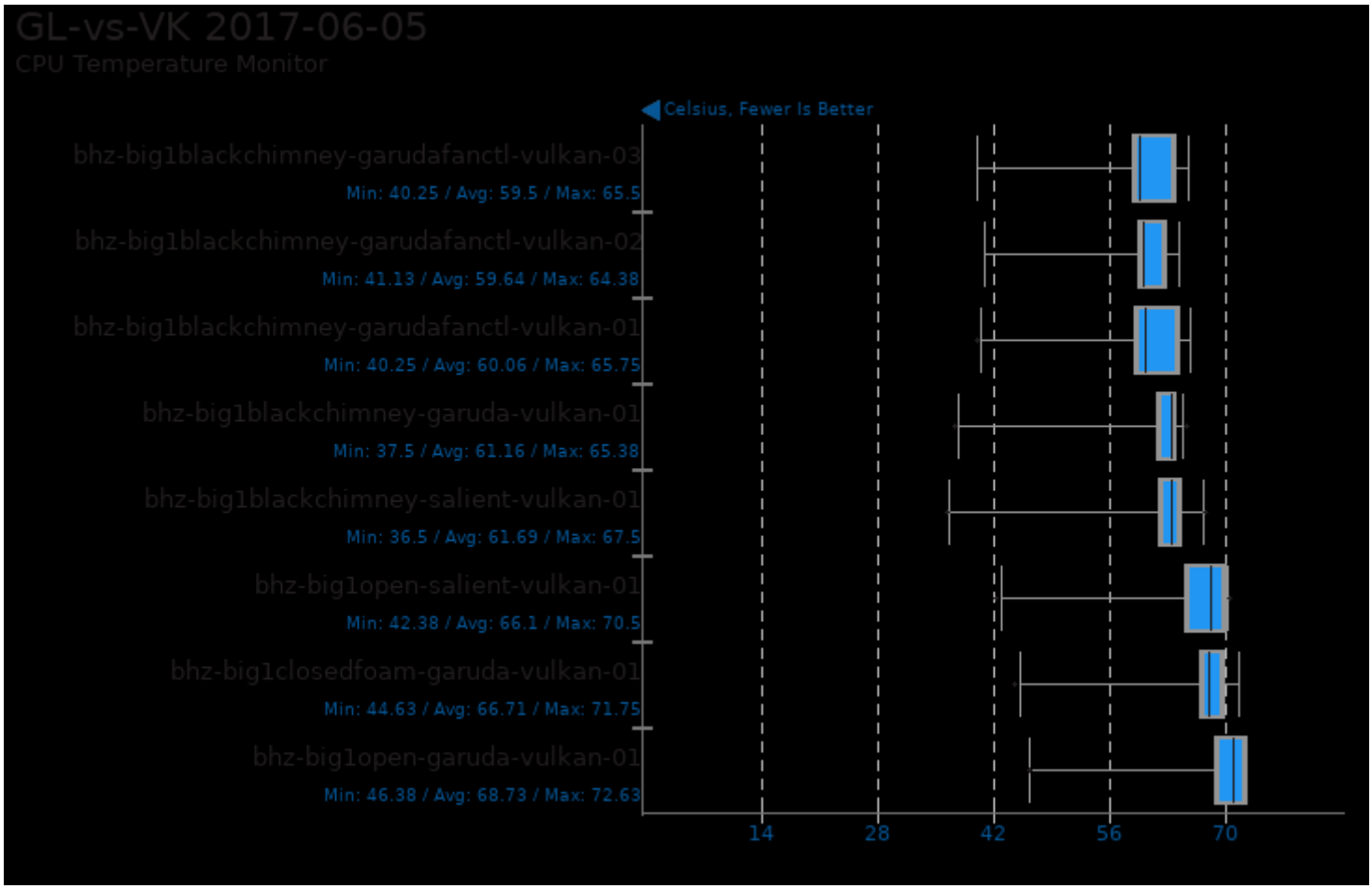
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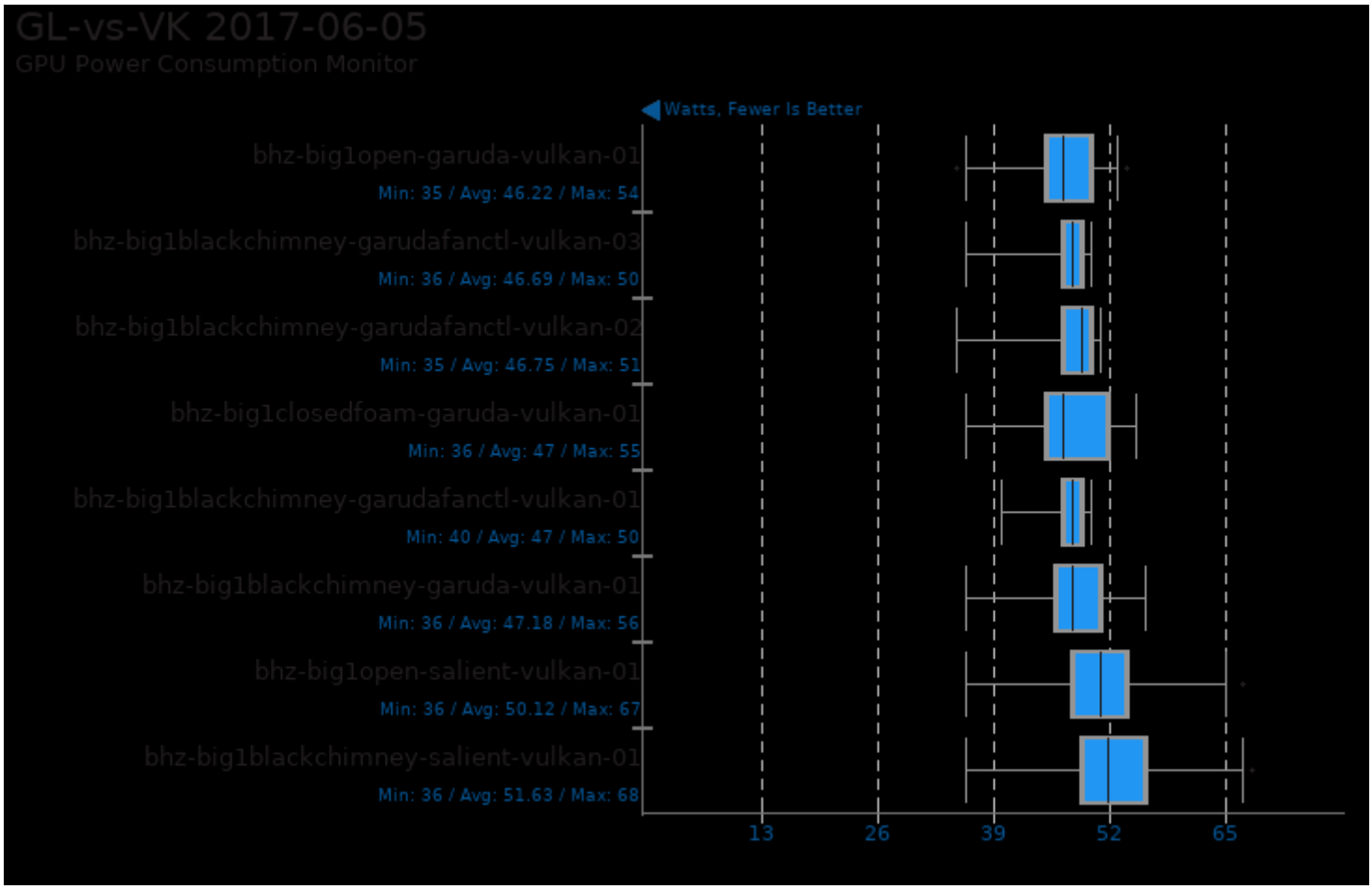
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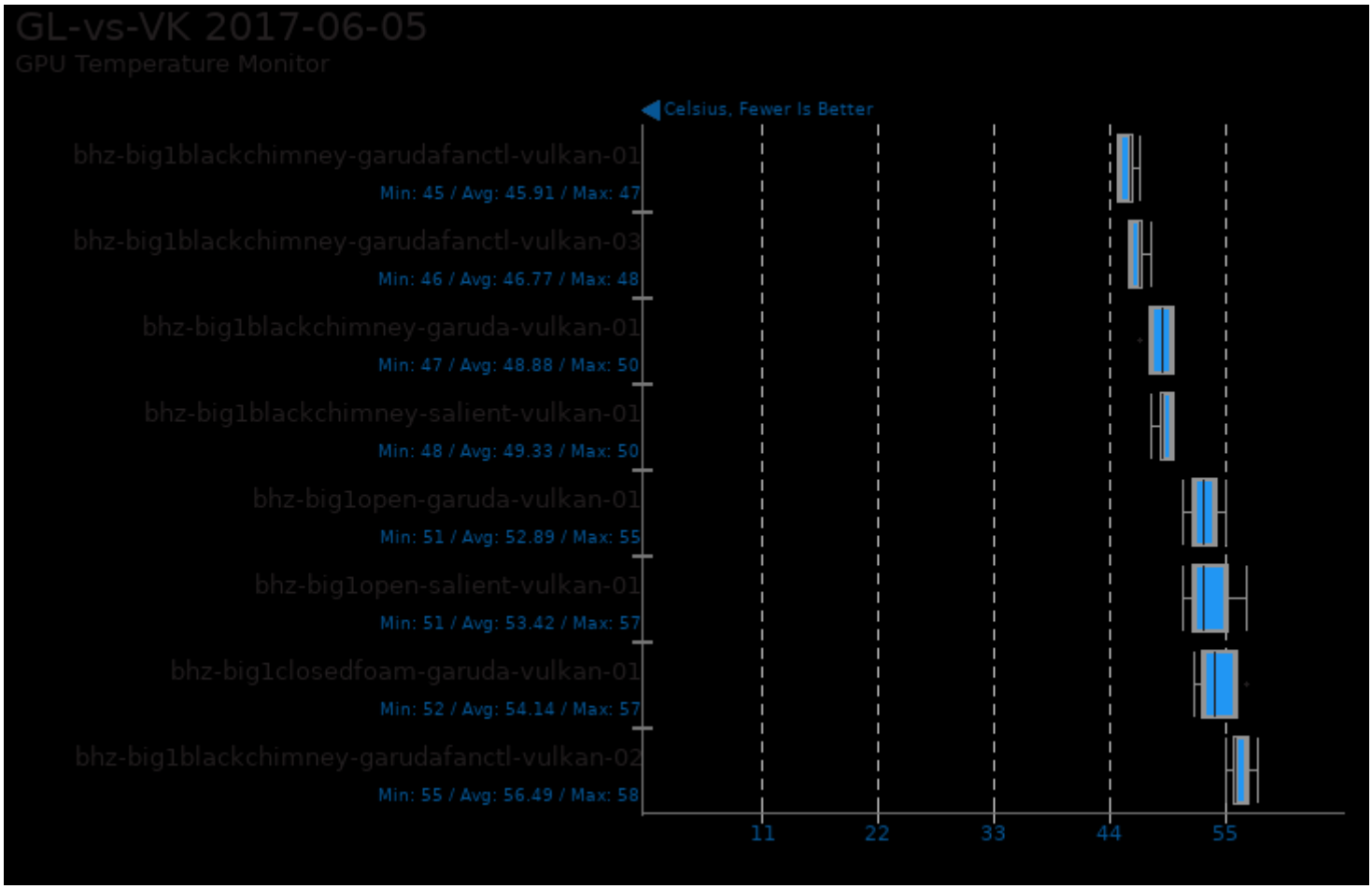
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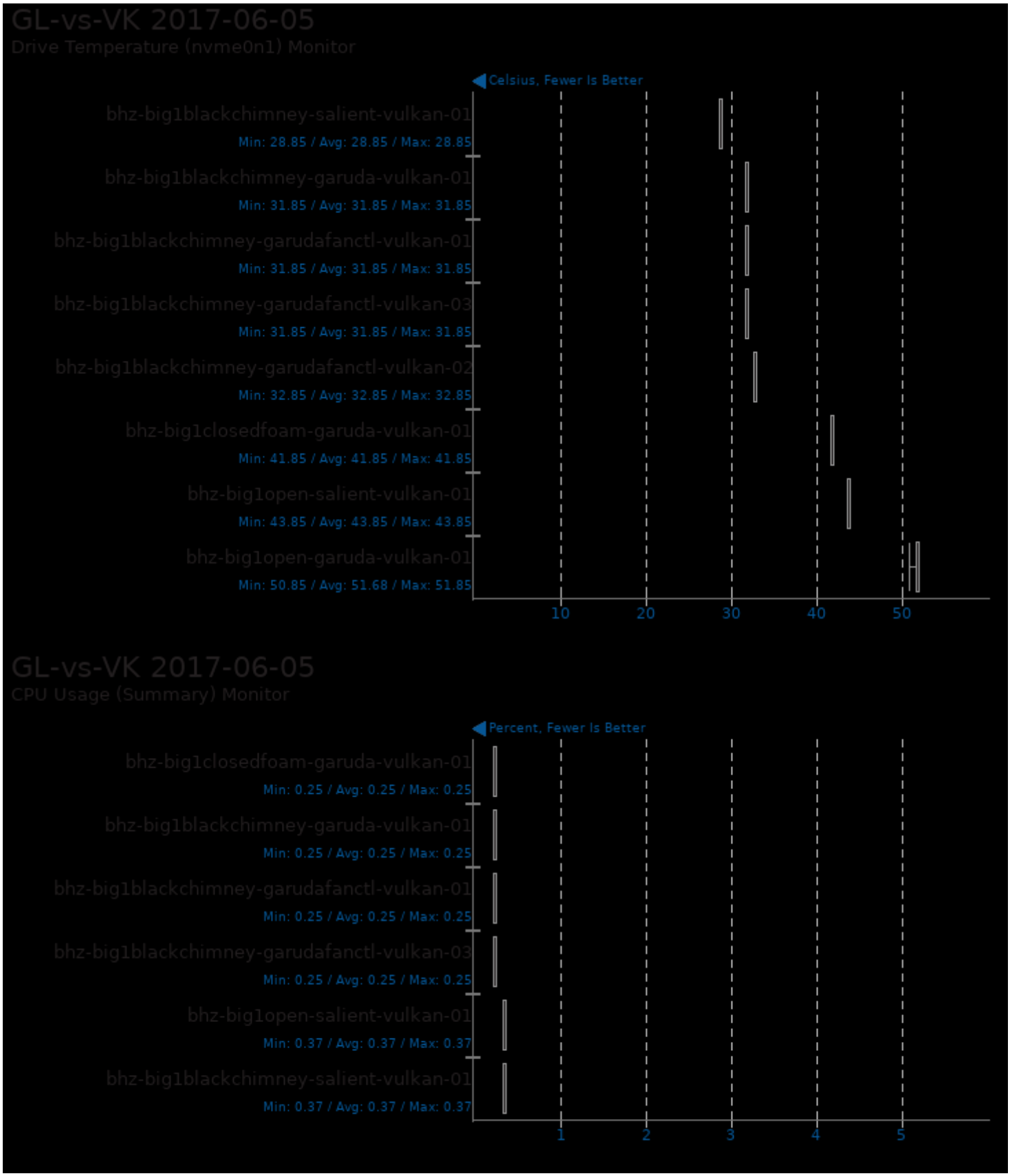
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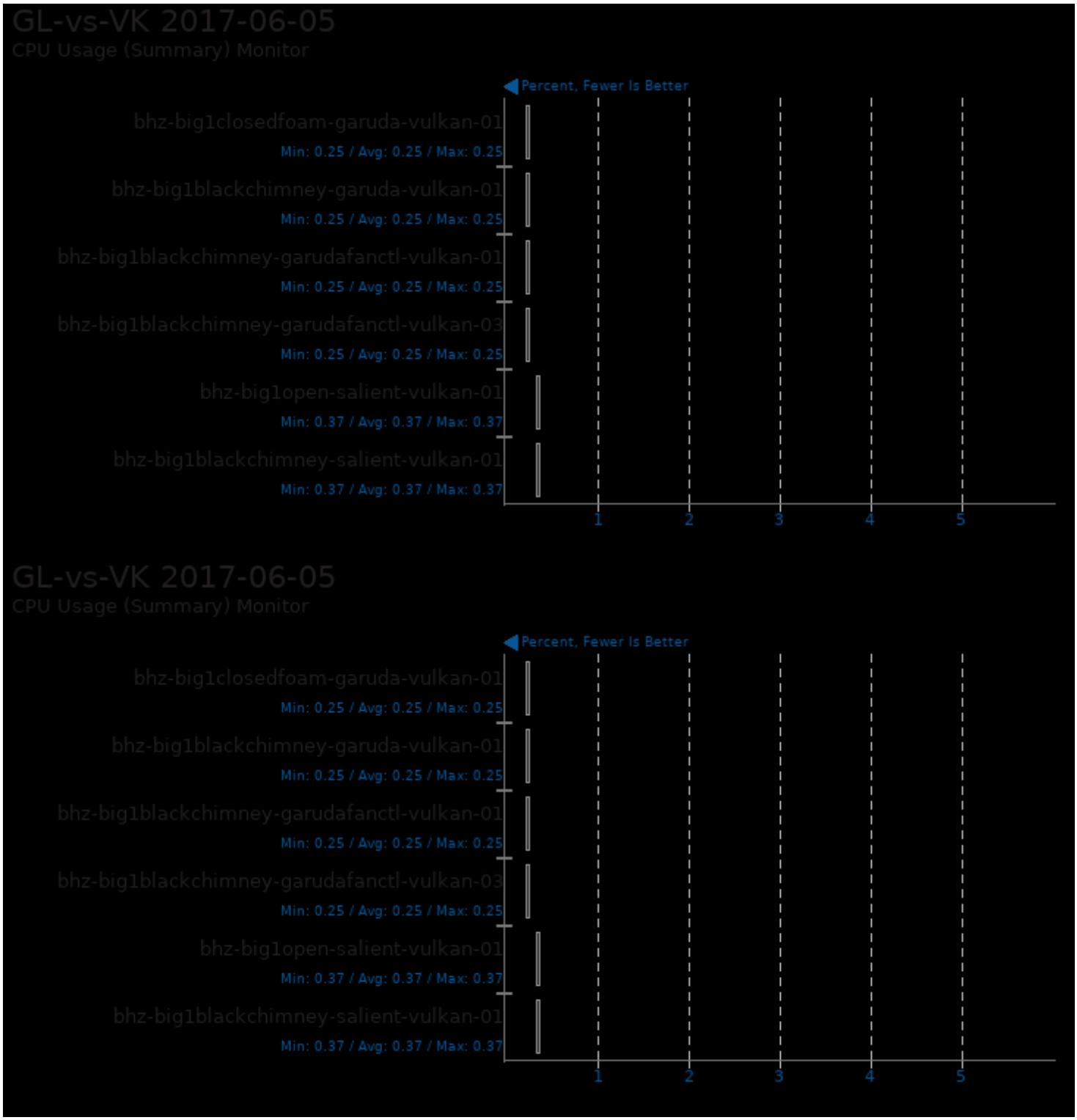
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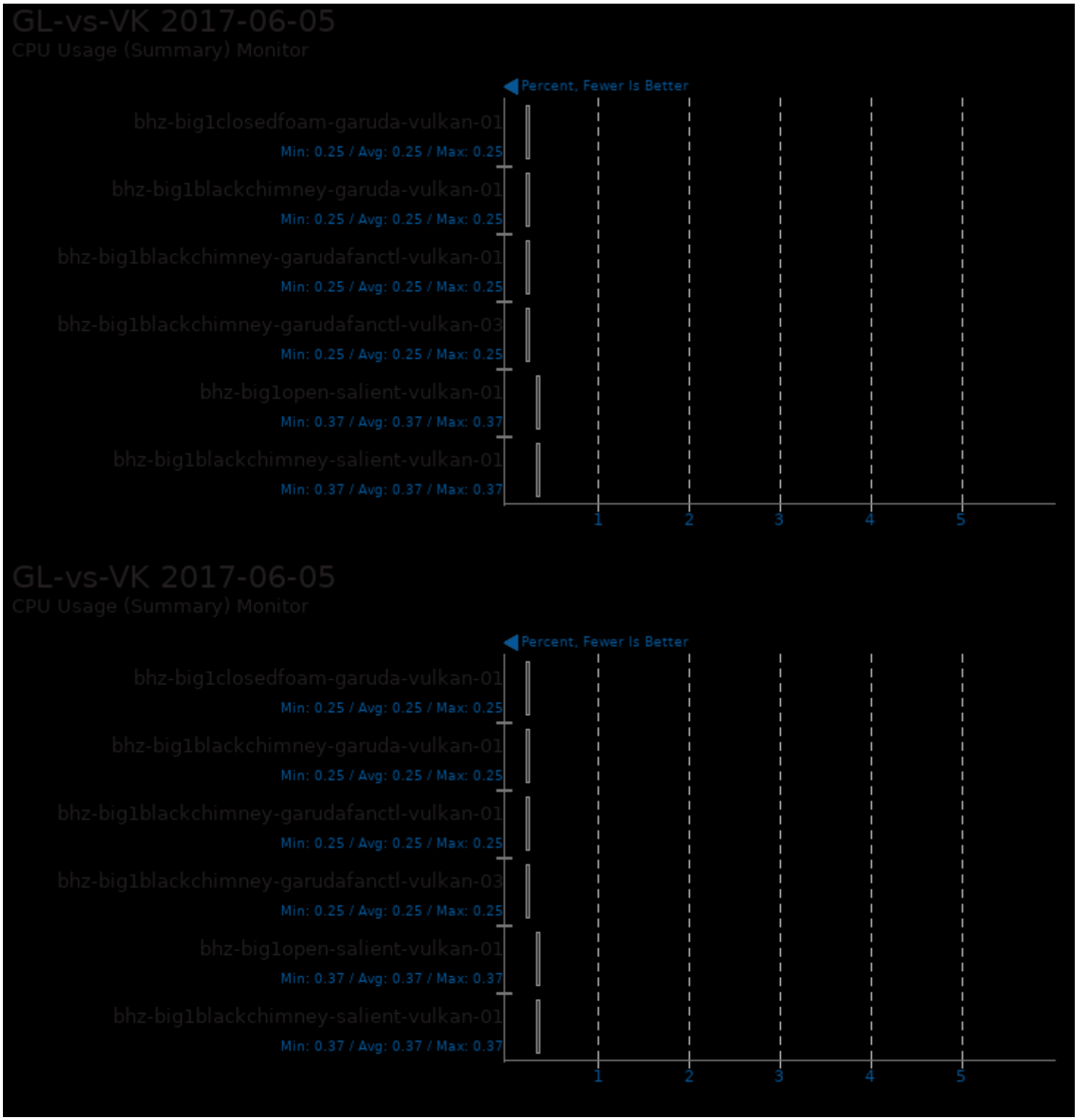


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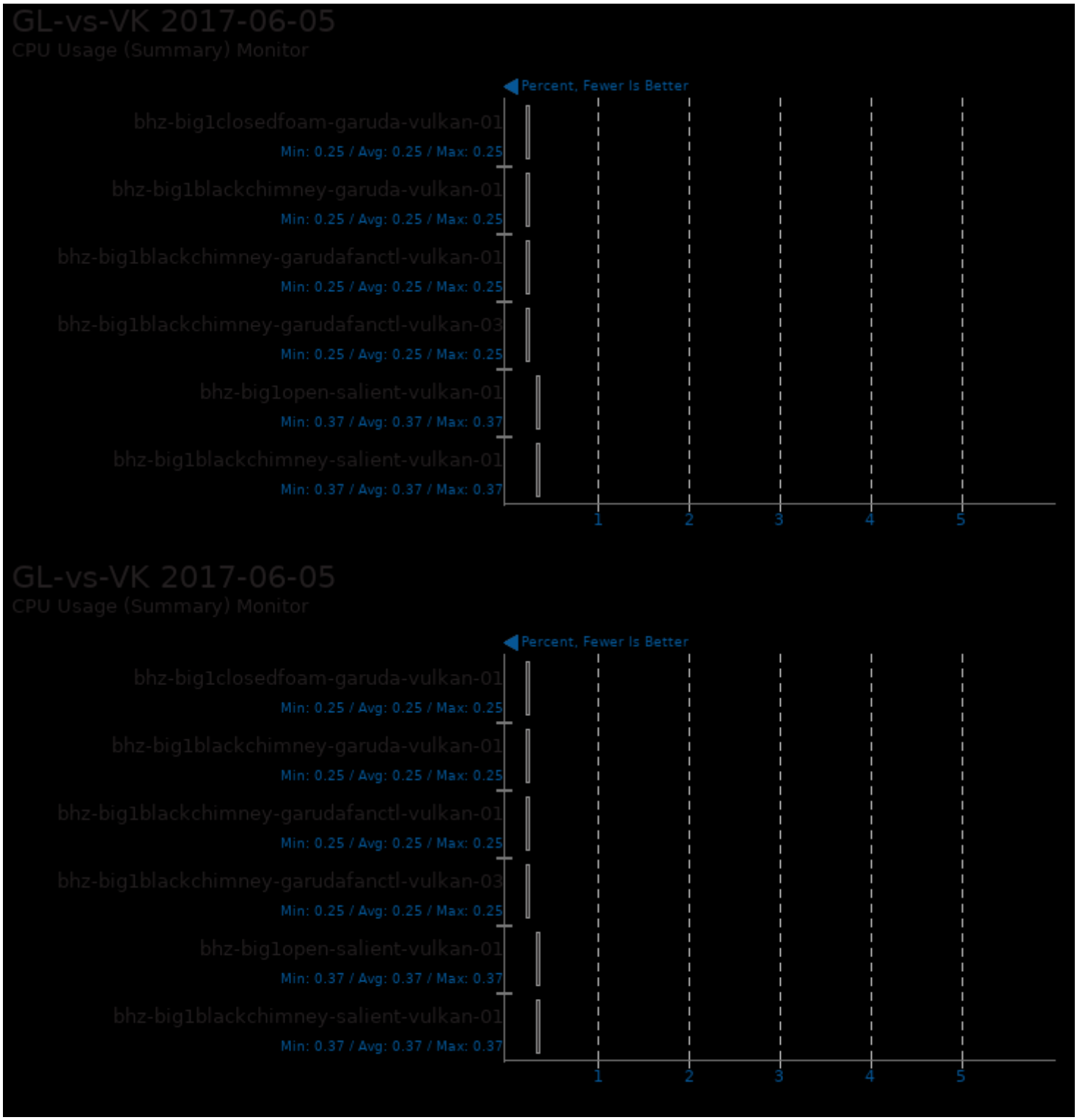
GL-vs-VK 2017-06-05
CPU Usage (Summary) Monitor
Percent, Fewer Is Better
bhz-big1closedfoam-garuda-vulkan-01
Min: 0.25 / Avg: 0.25 / Max: 0.25
bhz-big1blackchimney-garuda-vulkan-01
Min: 0.25 / Avg: 0.25 / Max: 0.25
bhz-big1blackchimney-garudafanctl-vulkan-01
Min: 0.25 / Avg: 0.25 / Max: 0.25
bhz-big1blackchimney-garudafanctl-vulkan-03
Min: 0.25 / Avg: 0.25 / Max: 0.25
bhz-big1open-salient-vulkan-01
Min: 0.37 / Avg: 0.37 / Max: 0.37
bhz-big1blackchimney-salient-vulkan-01
Min: 0.37 / Avg: 0.37 / Max: 0.37
1
2
3
4
5

vulkan_big1open_garuda_vulkan_02



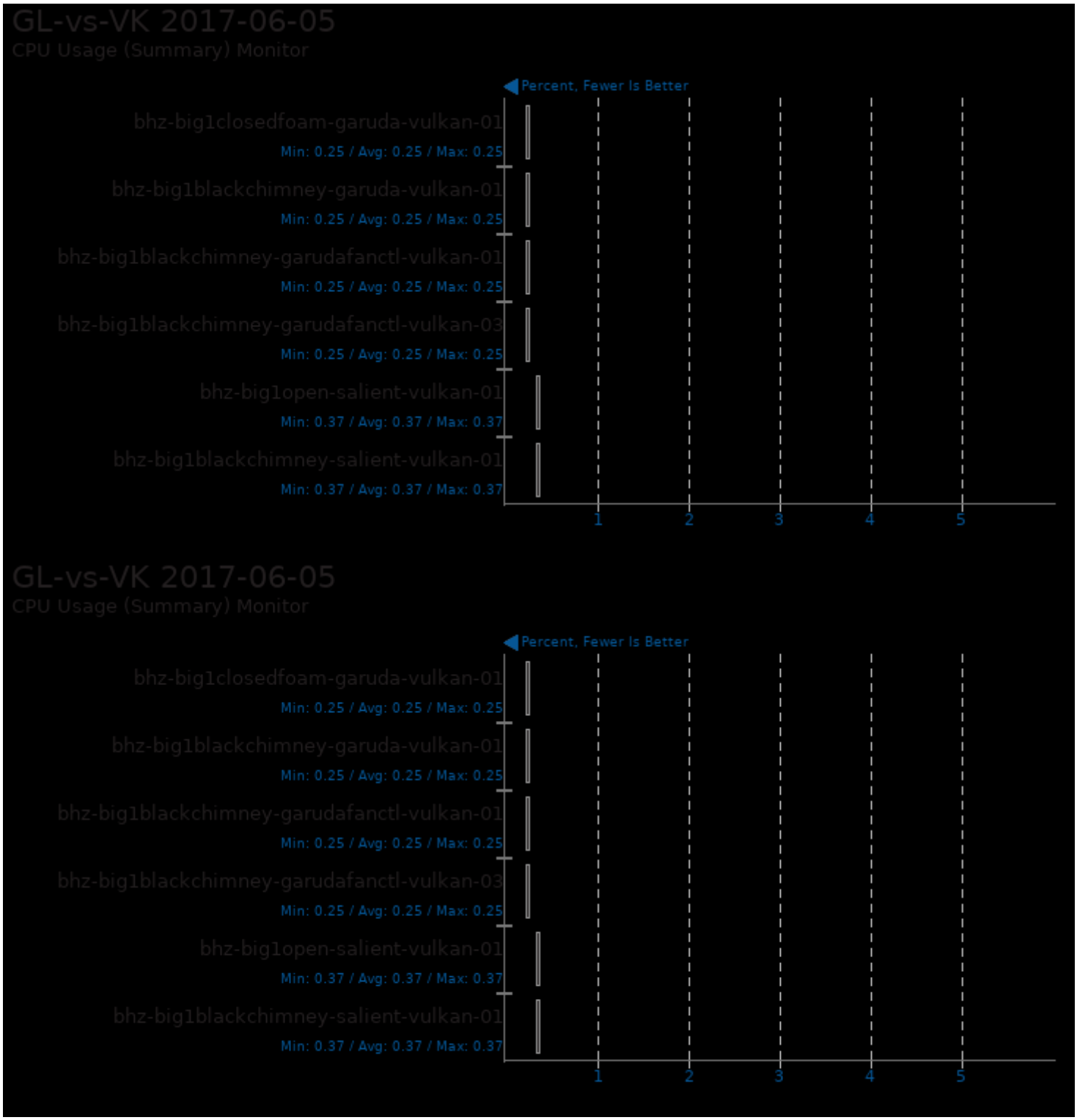
GL-vs-VK 2017-06-05
CPU Usage (Summary) Monitor
Percent, Fewer Is Better
bhz-big1closedfoam-garuda-vulkan-01
Min: 0.25 / Avg: 0.25 / Max: 0.25
bhz-big1blackchimney-garuda-vulkan-01
Min: 0.25 / Avg: 0.25 / Max: 0.25
bhz-big1blackchimney-garudafanctl-vulkan-01
Min: 0.25 / Avg: 0.25 / Max: 0.25
bhz-big1blackchimney-garudafanctl-vulkan-03
Min: 0.25 / Avg: 0.25 / Max: 0.25
bhz-big1open-salient-vulkan-01
Min: 0.37 / Avg: 0.37 / Max: 0.37
bhz-big1blackchimney-salient-vulkan-01
Min: 0.37 / Avg: 0.37 / Max: 0.37
1
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4
5

vulkan_big1open_garuda_vulkan_02



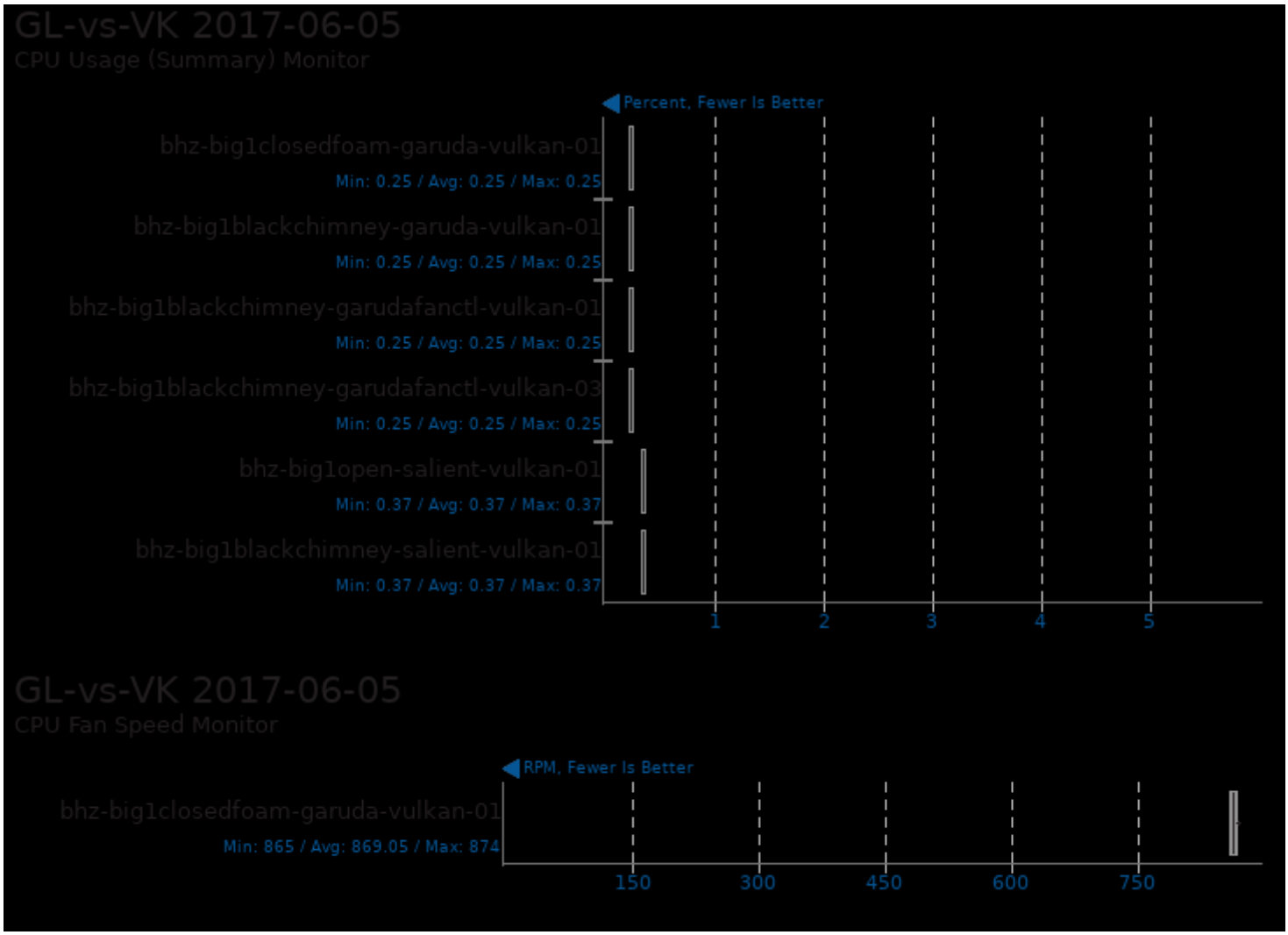
GL-vs-VK 2017-06-05
CPU Usage (Summary) Monitor
Percent, Fewer Is Better
bhz-big1closedfoam-garuda-vulkan-01
Min: 0.25 / Avg: 0.25 / Max: 0.25
bhz-big1blackchimney-garuda-vulkan-01
Min: 0.25 / Avg: 0.25 / Max: 0.25
bhz-big1blackchimney-garudafanctl-vulkan-01
Min: 0.25 / Avg: 0.25 / Max: 0.25
bhz-big1blackchimney-garudafanctl-vulkan-03
Min: 0.25 / Avg: 0.25 / Max: 0.25
bhz-big1open-salient-vulkan-01
Min: 0.37 / Avg: 0.37 / Max: 0.37
bhz-big1blackchimney-salient-vulkan-01
Min: 0.37 / Avg: 0.37 / Max: 0.37
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5

vulkan_big1open_garuda_vulkan_02

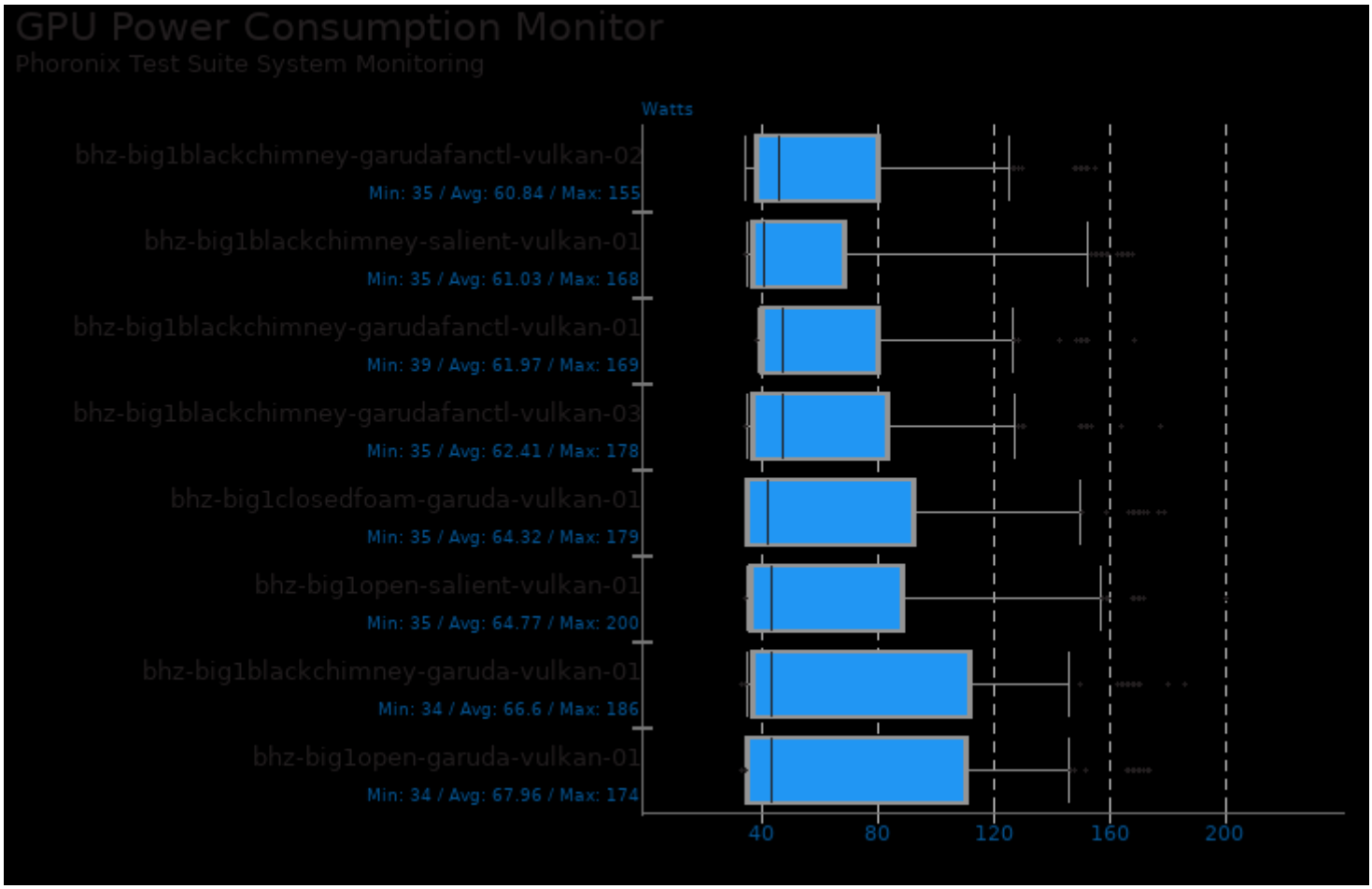


GL-vs-VK 2017-06-05
CPU Usage (Summary) Monitor
Percent, Fewer Is Better
bhz-big1closedfoam-garuda-vulkan-01
Min: 0.25 / Avg: 0.25 / Max: 0.25
bhz-big1blackchimney-garuda-vulkan-01
Min: 0.25 / Avg: 0.25 / Max: 0.25
bhz-big1blackchimney-garudafanctl-vulkan-01
Min: 0.25 / Avg: 0.25 / Max: 0.25
bhz-big1blackchimney-garudafanctl-vulkan-03
Min: 0.25 / Avg: 0.25 / Max: 0.25
bhz-big1open-salient-vulkan-01
Min: 0.37 / Avg: 0.37 / Max: 0.37
bhz-big1blackchimney-salient-vulkan-01
Min: 0.37 / Avg: 0.37 / Max: 0.37
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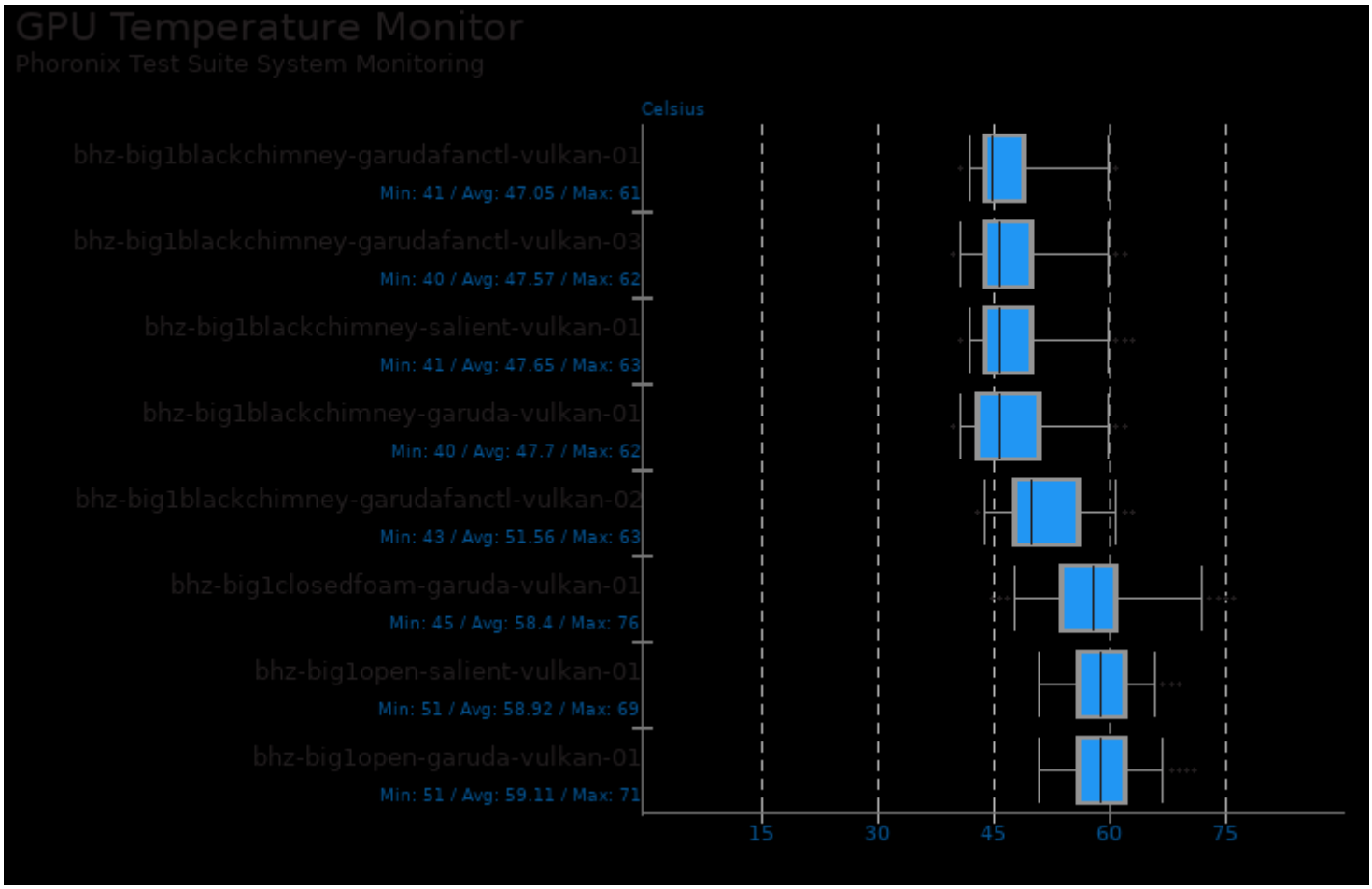
vulkan_big1open_garuda_vulkan_02



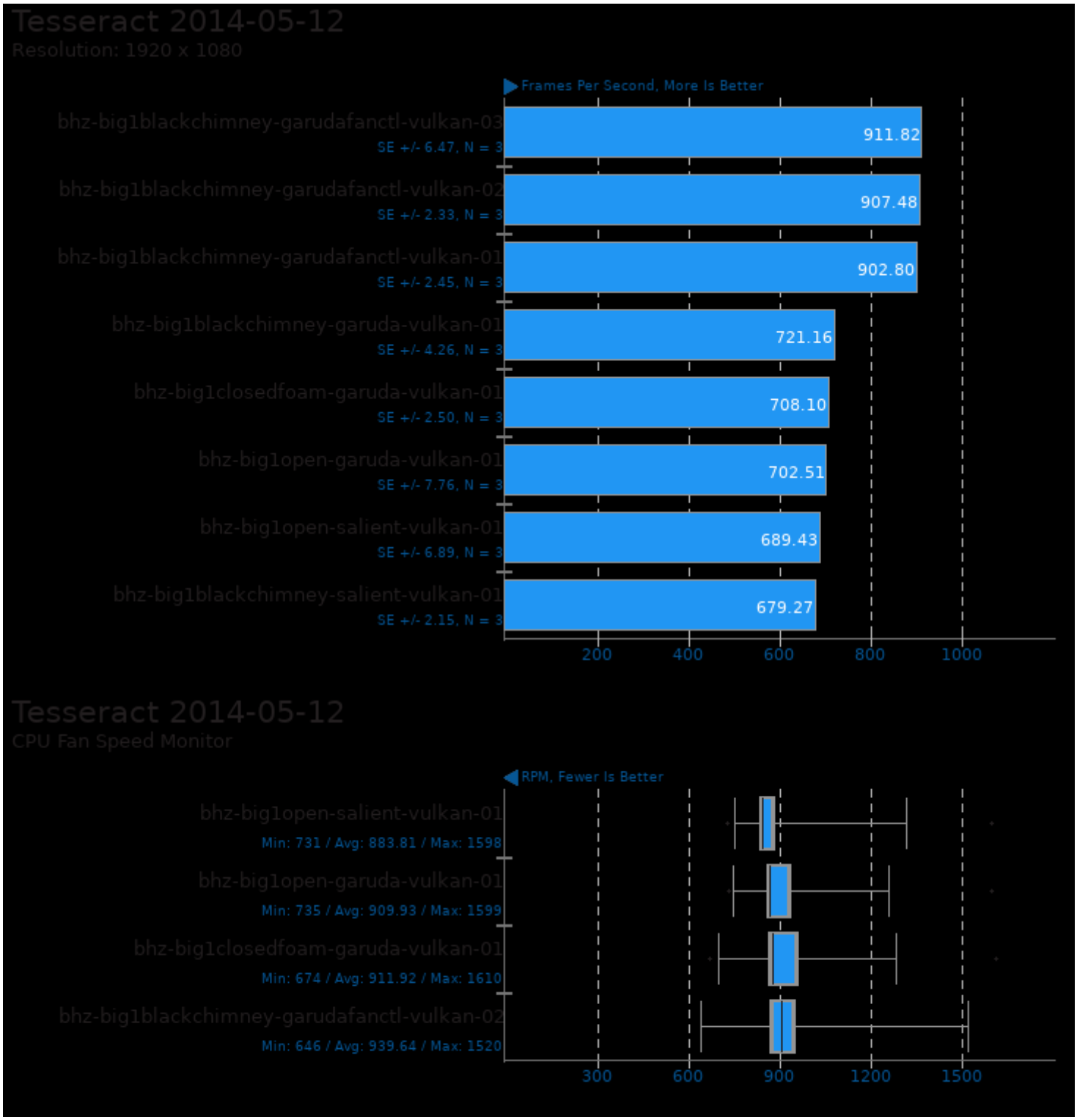
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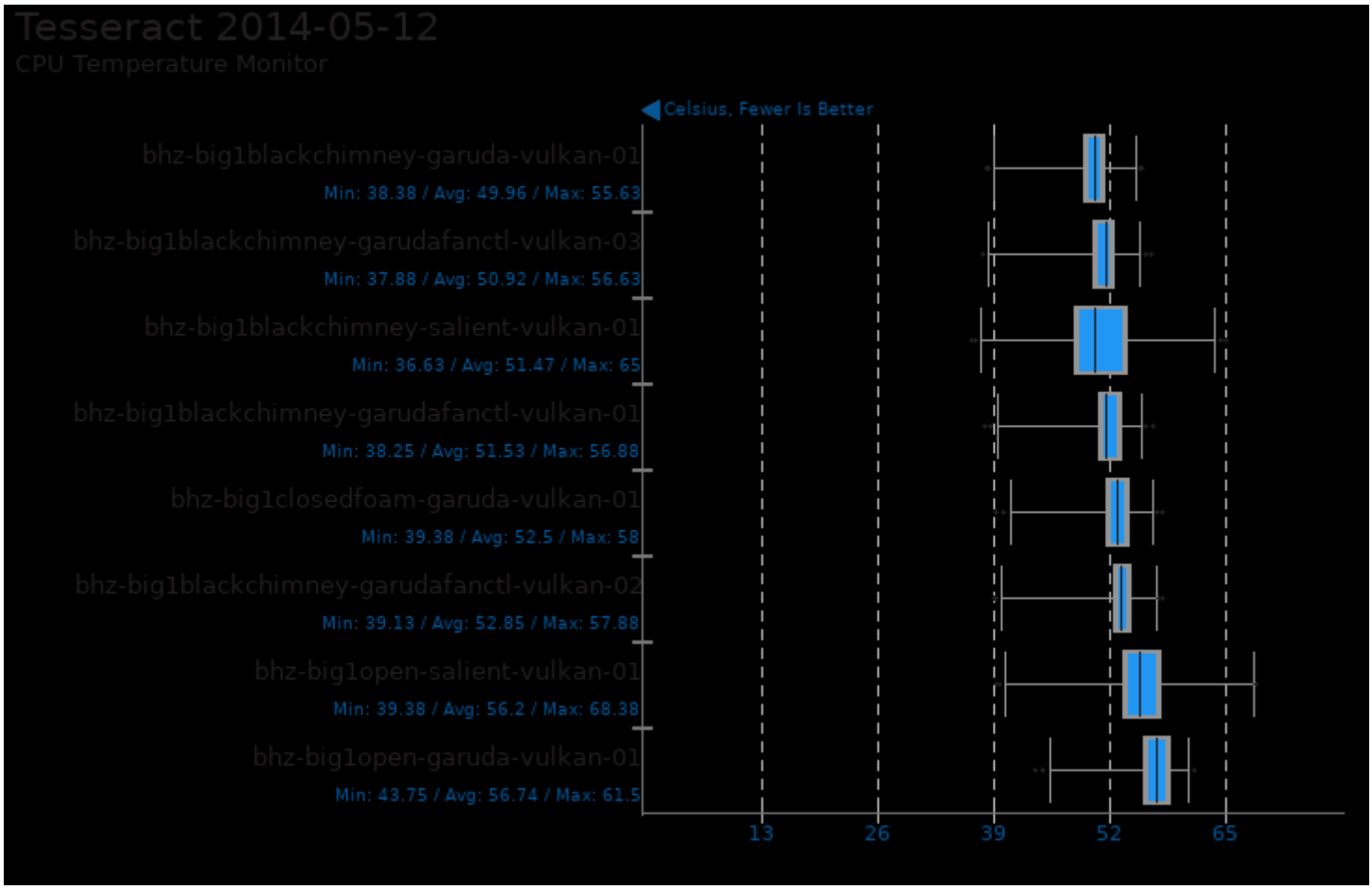
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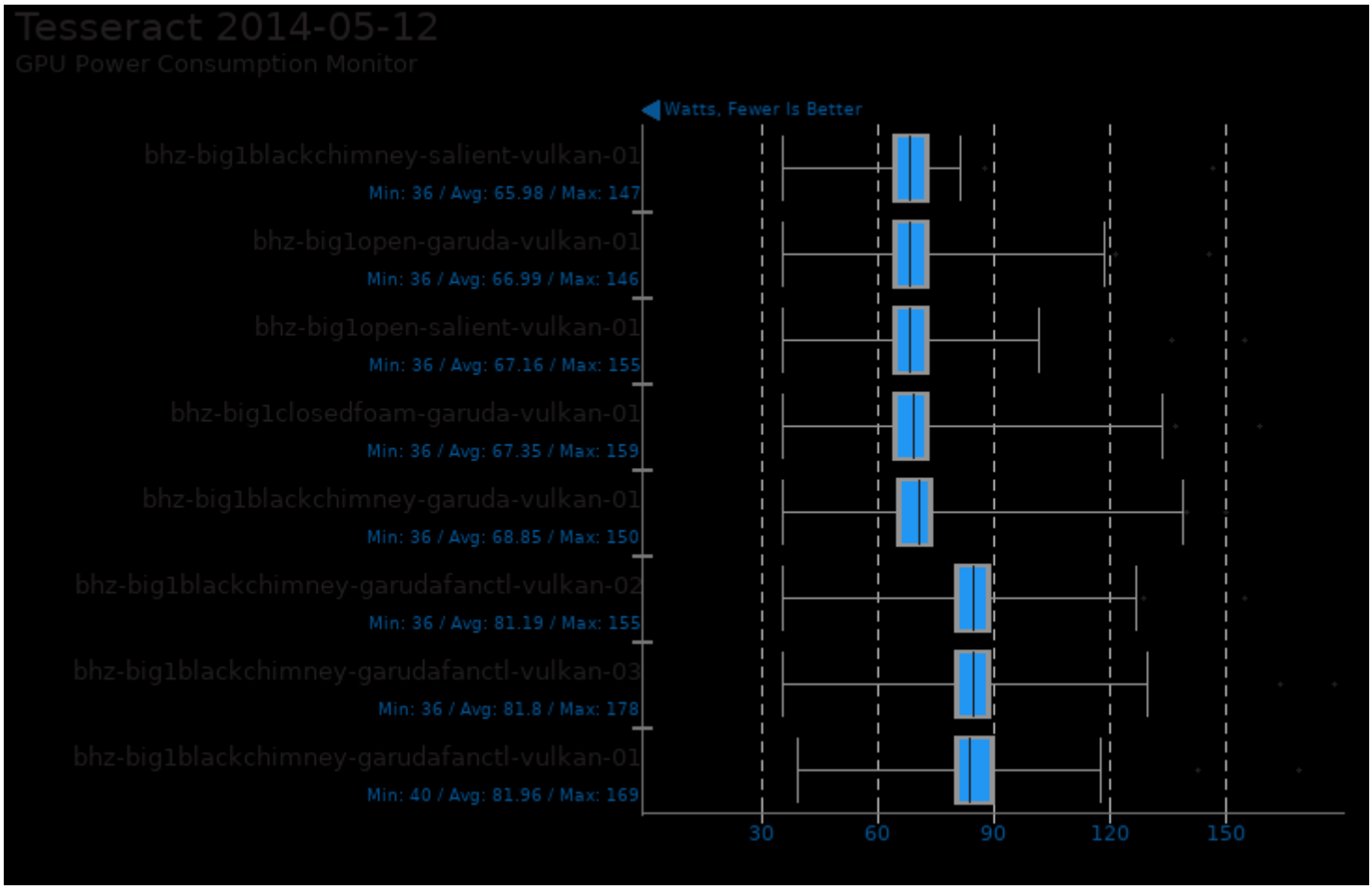
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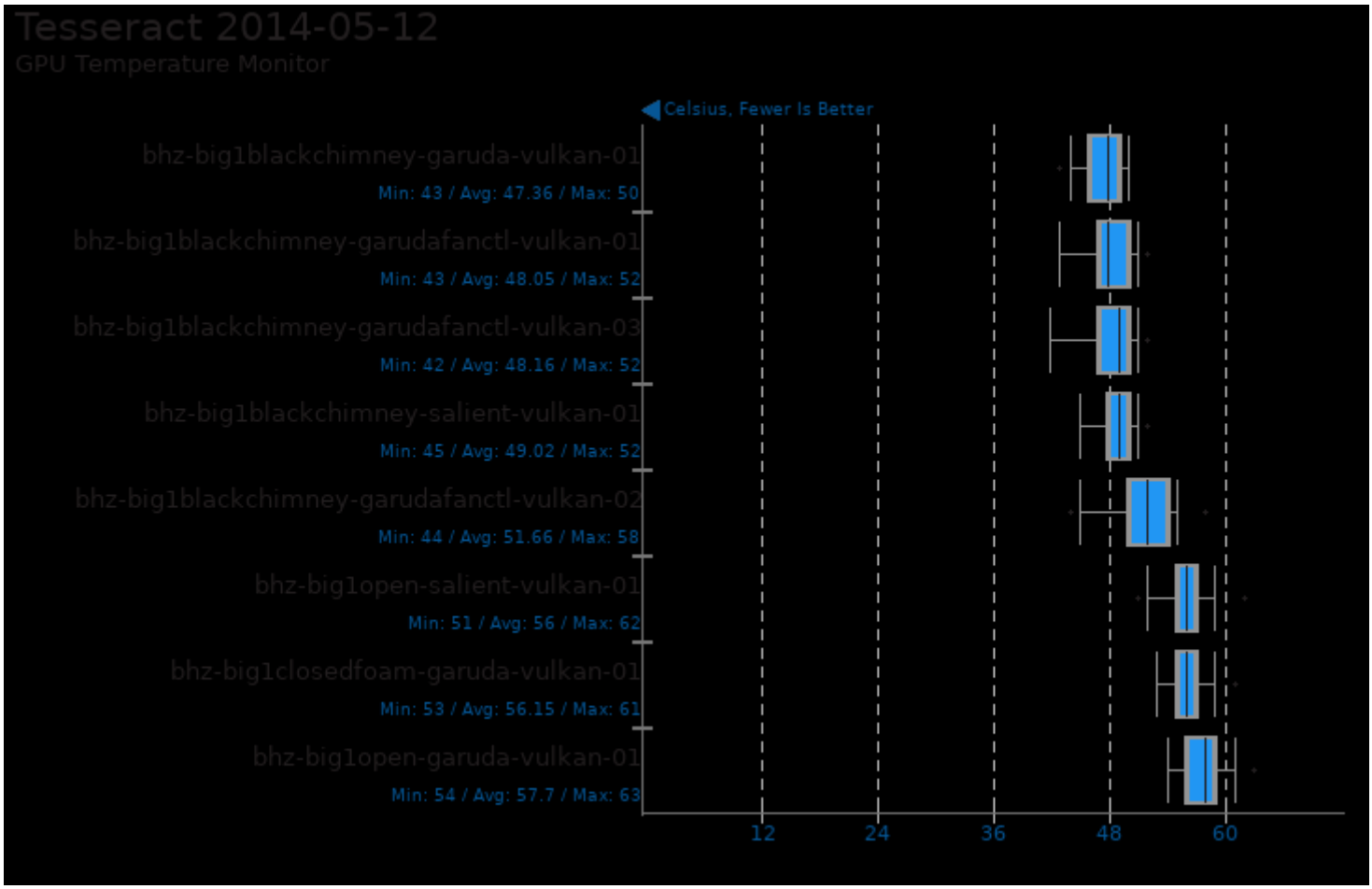
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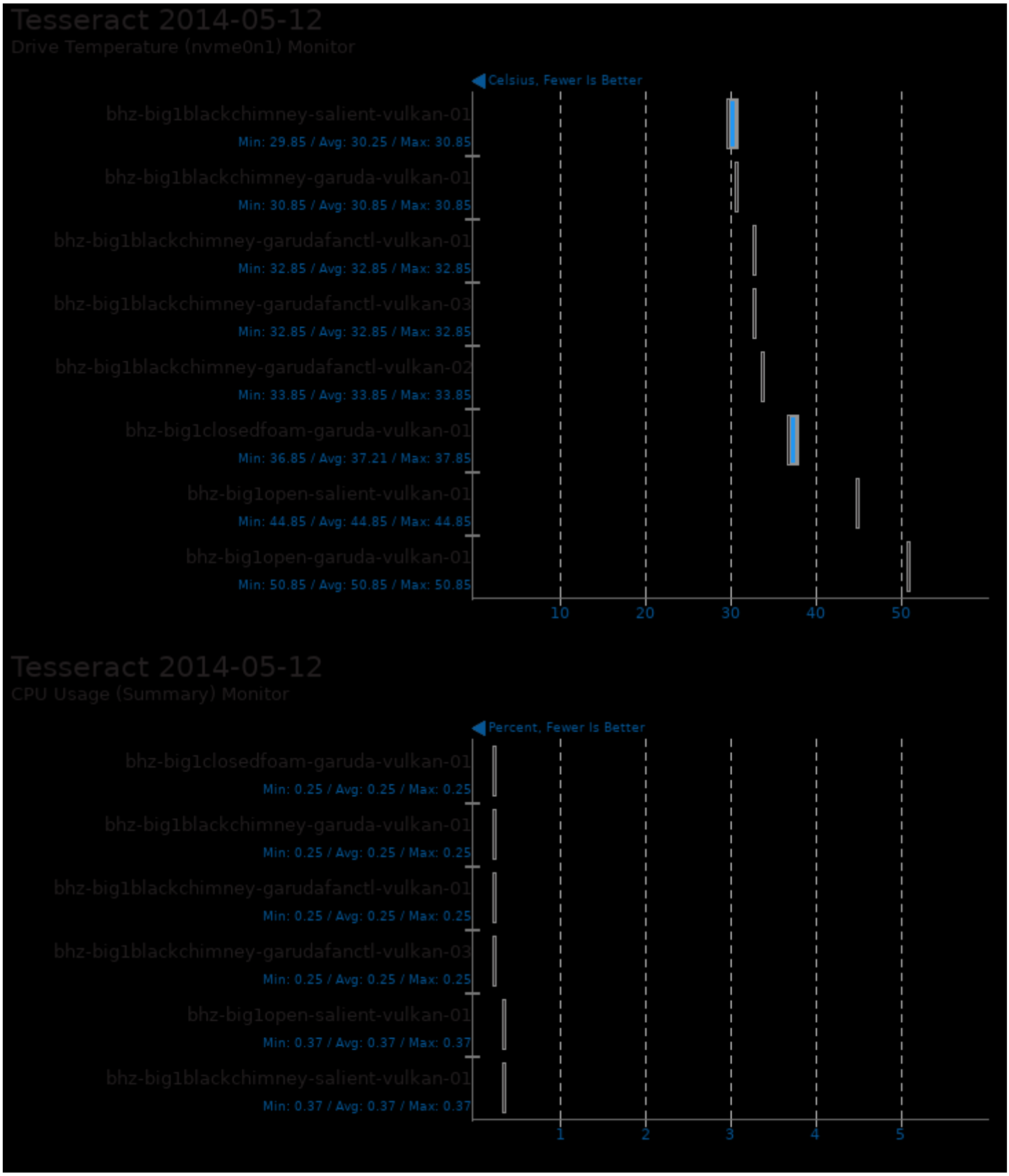
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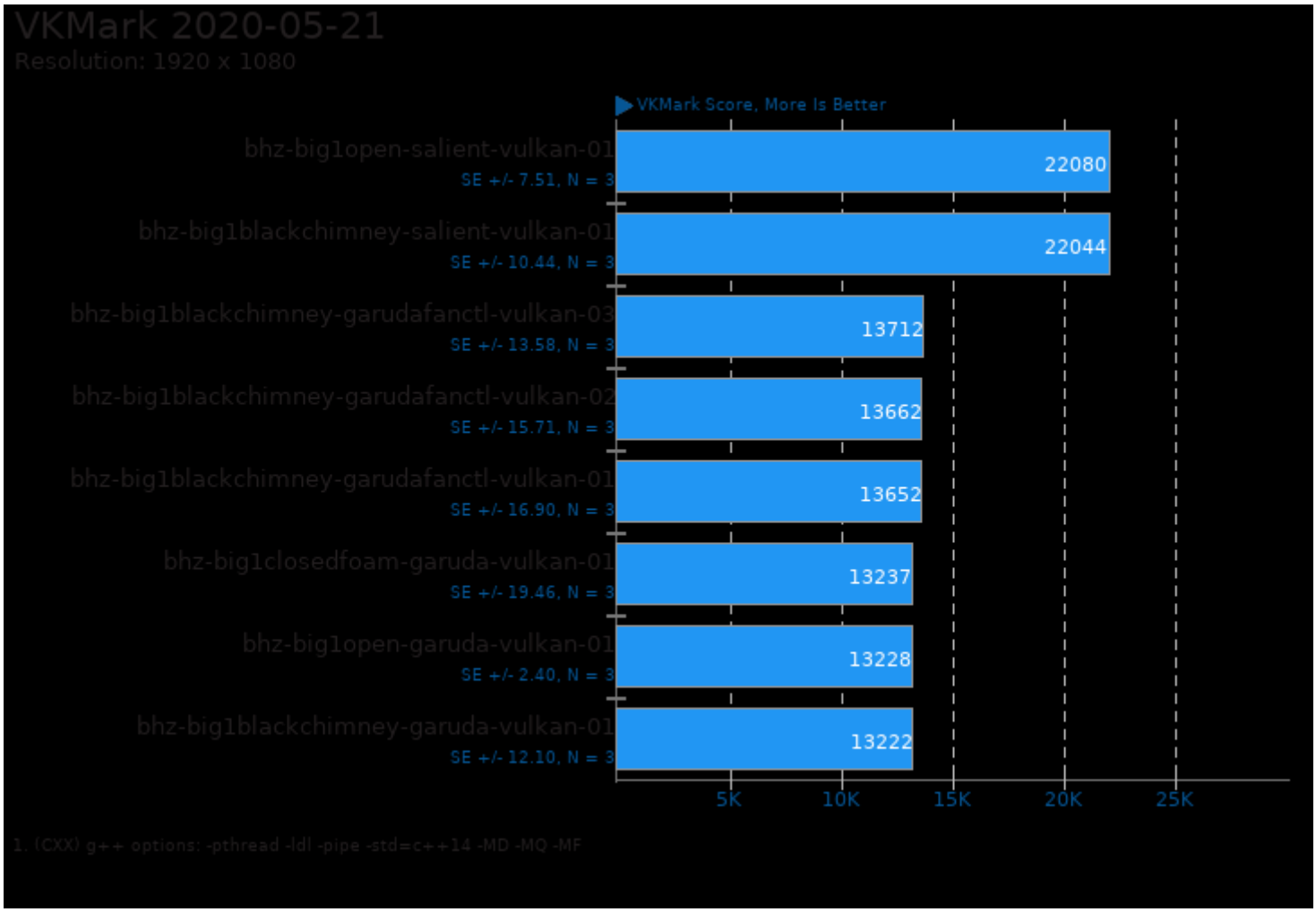
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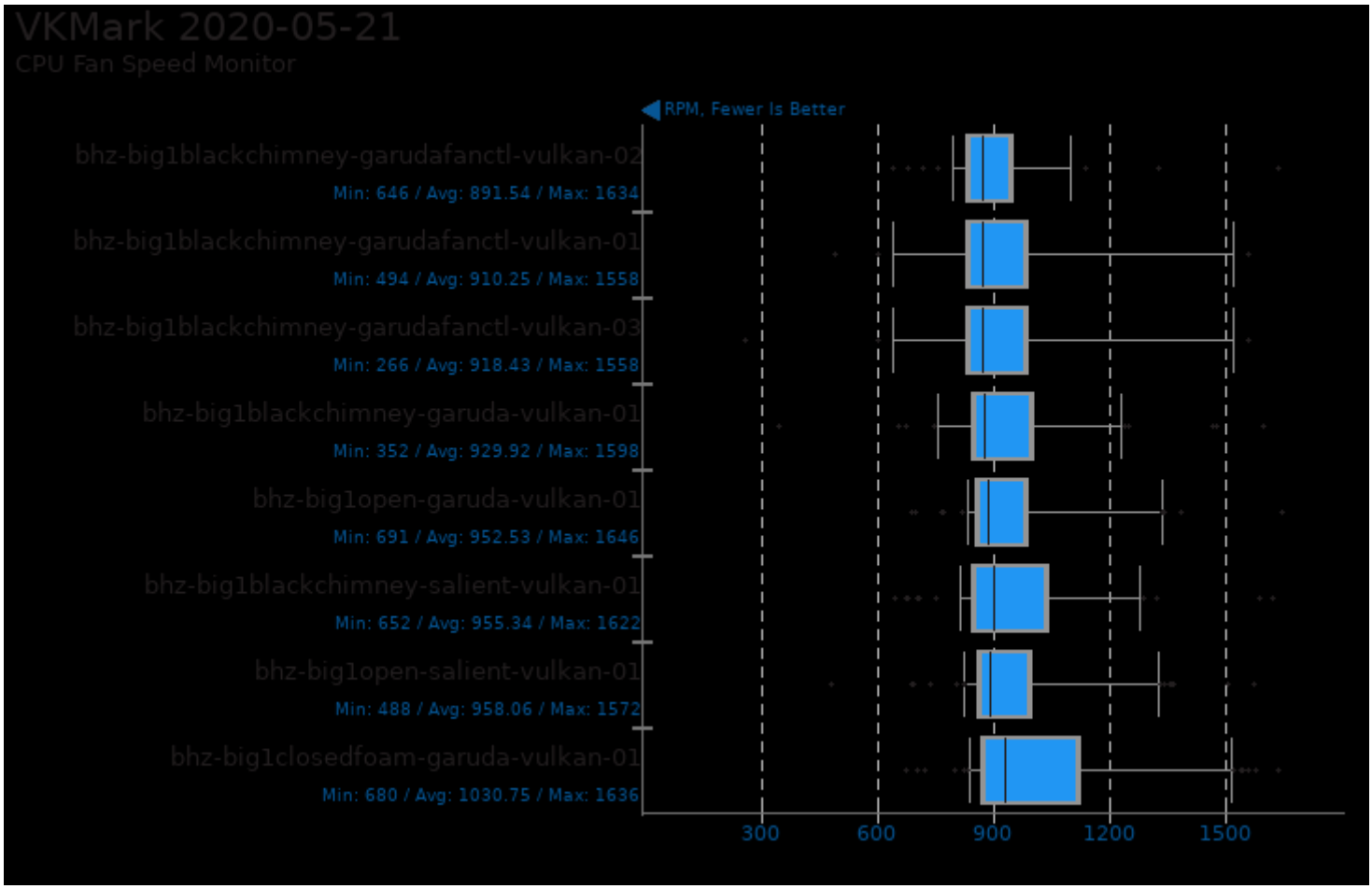
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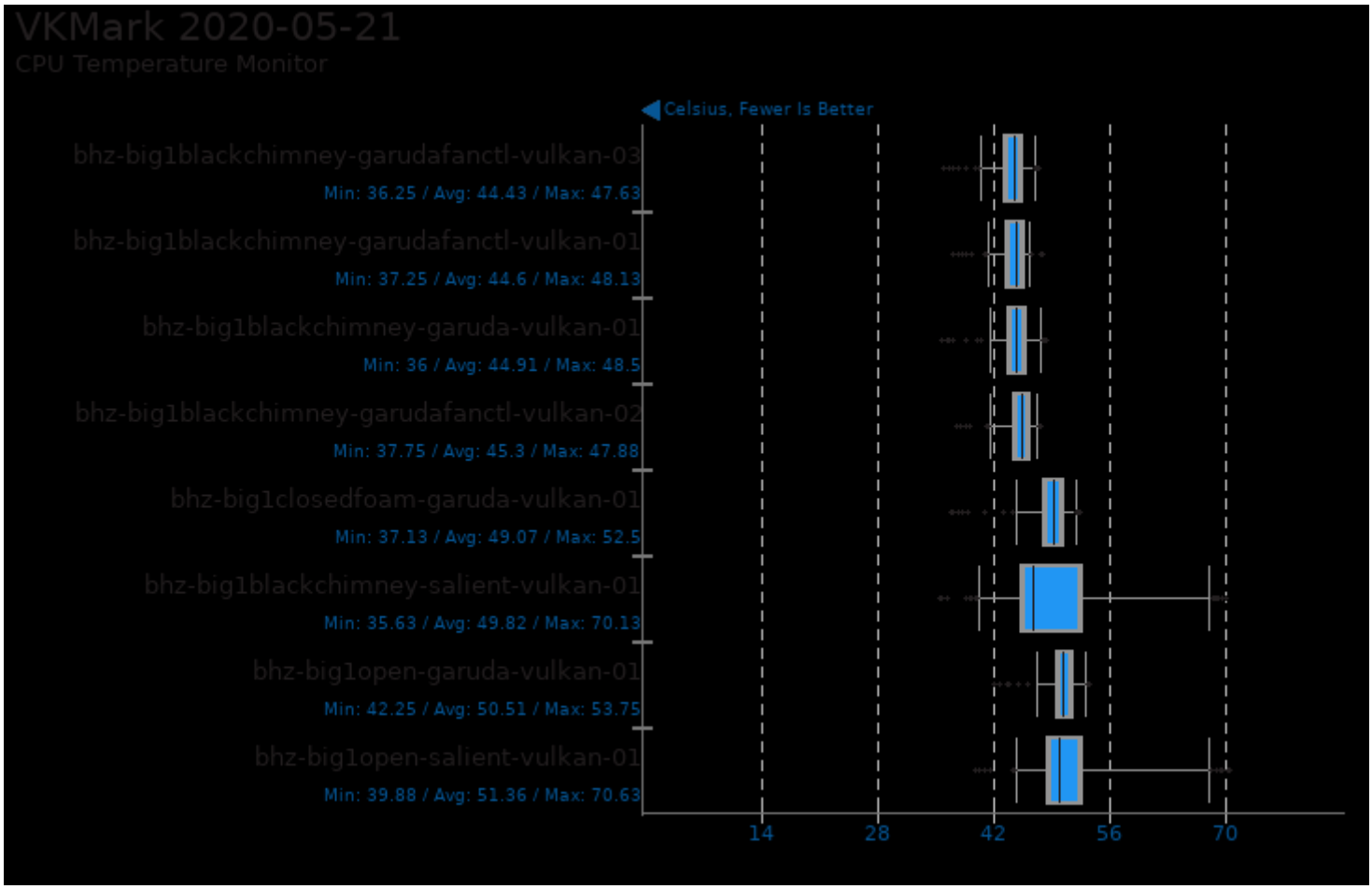
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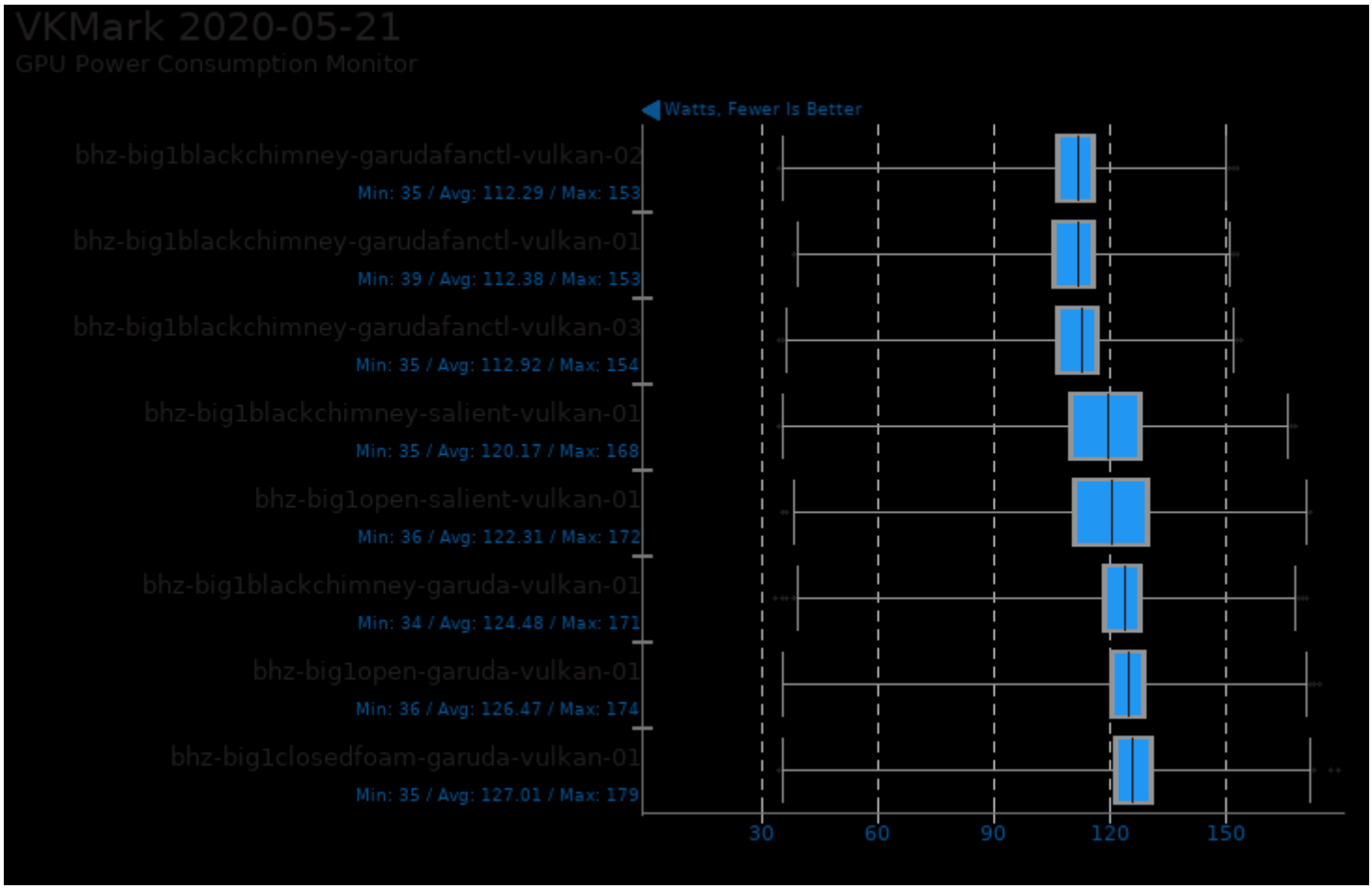
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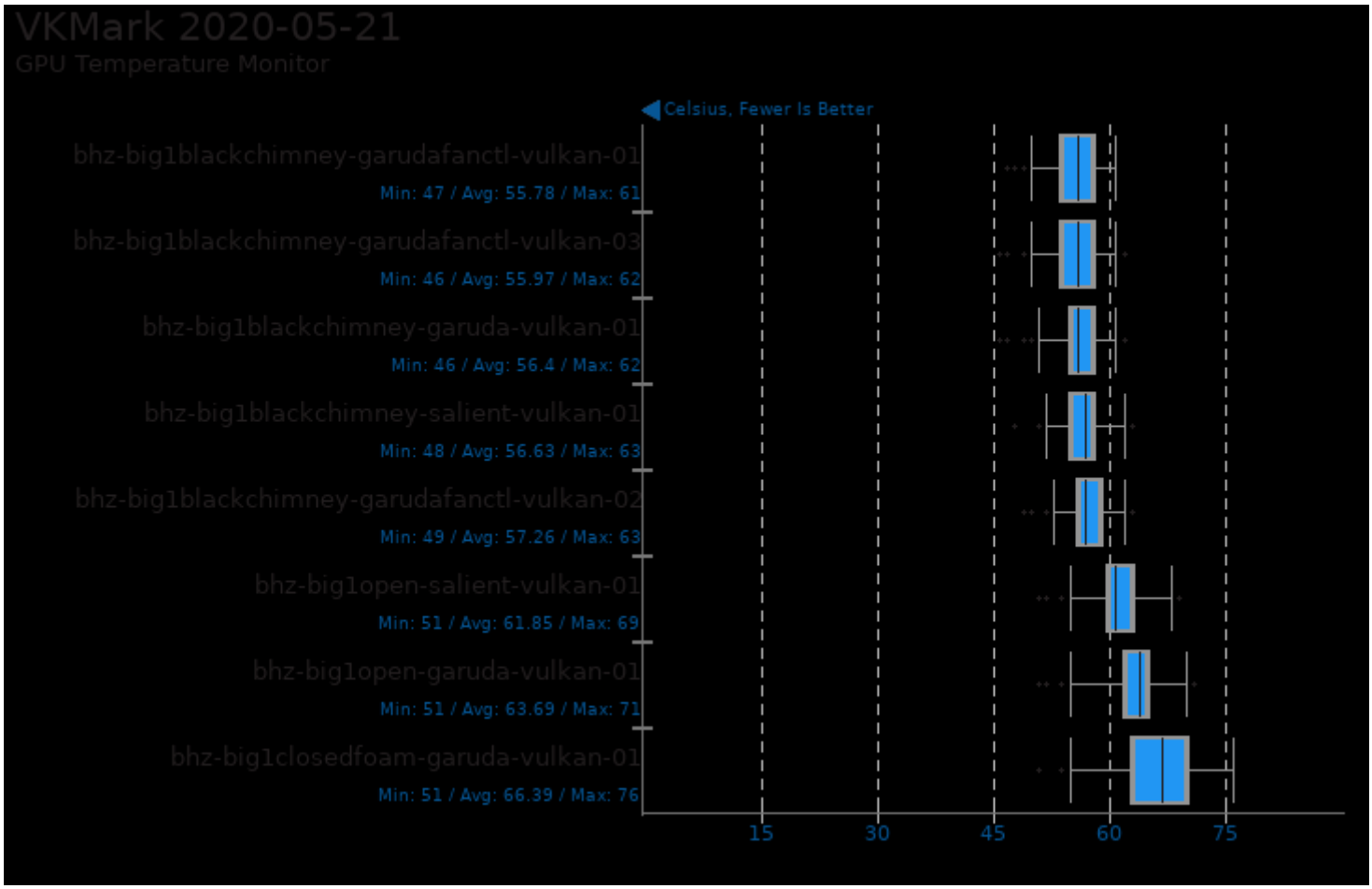
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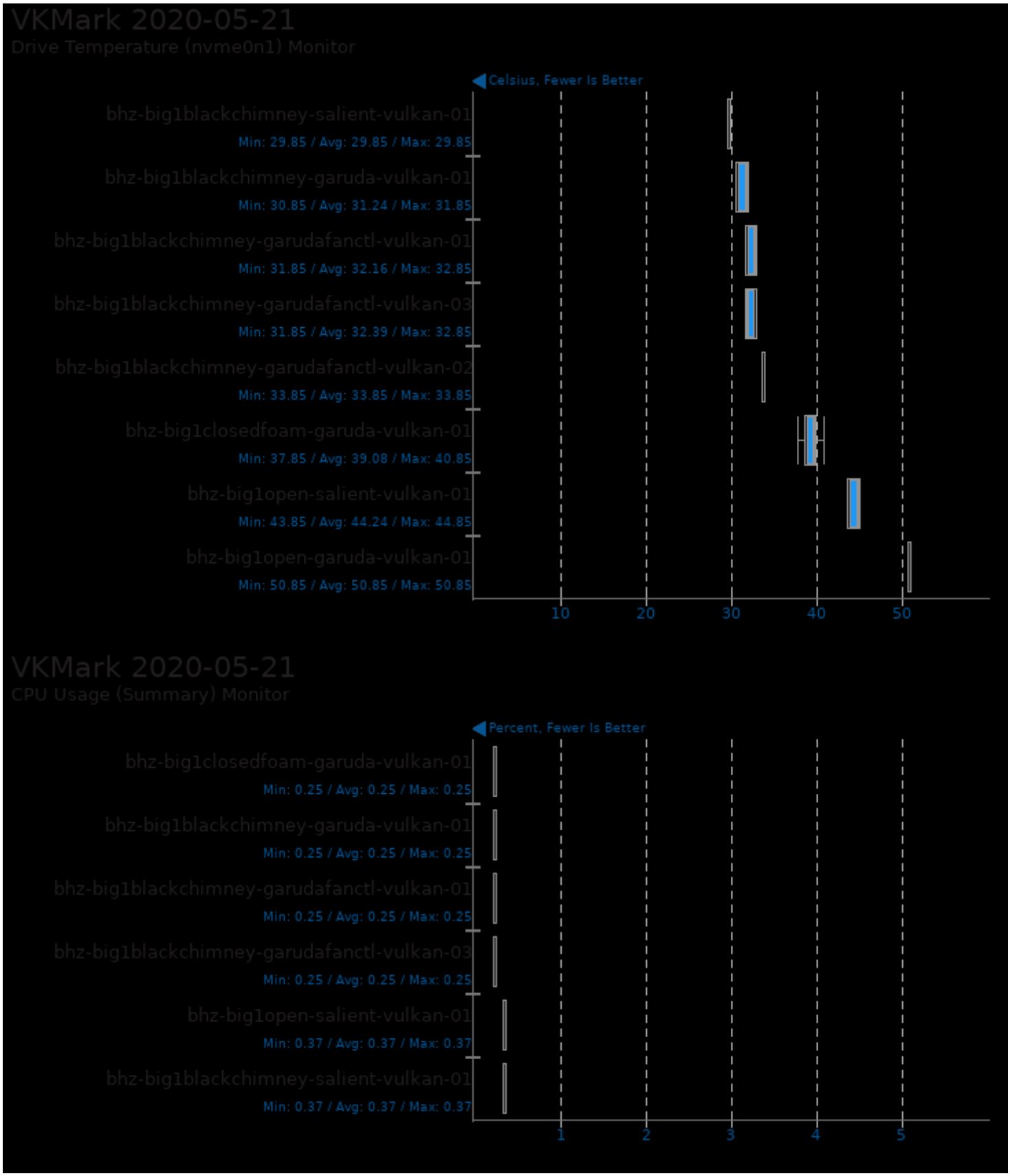
vulkan_big1open_garuda_vulkan_02



vulkan_big1open_garuda_vulkan_02



vulkan_big1open_garuda_vulkan_02



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