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A10-8700P Monitor Test

AMD Embedded G GX-420GI Radeon R7E testing with a HP 8158 (M40 v01.08 BIOS) and AMD Radeon R5/R6/R7 on Debian 11 via the Phoronix Test Suite.

Test Systems:

AMD A10-8700P Radeon R6 10 Compute Cores 4C

Processor: AMD A10-8700P Radeon R6 10 Compute Cores 4C+6G @ 1.80GHz (4 Cores), Motherboard: FF50 06F6, Chipset: AMD Device 1576, Memory: 8192MB, Disk: 1000GB TOSHIBA MQ01ABD1, Graphics: AMD Carrizo 512MB, Audio: AMD Kabini HDMI/DP, Network: Realtek RTL8101/2/6E + Realtek RTL8723BE PCIe Wireless

OS: Ubuntu 15.10, Kernel: 4.2.0-16-generic (x86_64), Desktop: Unity, Display Server: X Server 1.17.2, Display Driver: radeon 7.5.99, Compiler: GCC 5.2.1 20151010, File-System: SquashFS, Screen Resolution: 1366x768

Compiler Notes: --build=x86_64-linux-gnu --disable-browser-plugin --disable-vtable-verify --disable-werror --enable-checking=release --enable-clocale=gnu --enable-gnu-unique-object --enable-gtk-cairo --enable-java-awt=gtk --enable-java-home --enable-languages=c,ada,c++,java,go,d,fortran,objc,obj-c++ --enable-libmpx --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-multilib --enable-nls --enable-objc-gc --enable-plugin --enable-shared --enable-threads=posix --host=x86_64-linux-gnu --target=x86_64-linux-gnu --with-abi=m64 --with-arch-32=i686 --with-arch-directory=amd64 --with-default-libstdcxx-abi=new --with-multilib-list=m32,m64,mx32 --with-tune=generic -v

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Processor Notes: Scaling Governor: acpi-cpufreq ondemand

HP ThinC T630 GX420

Processor: AMD Embedded G GX-420GI Radeon R7E @ 2.00GHz (2 Cores / 4 Threads), Motherboard: HP 8158 (M40 v01.08 BIOS), Chipset: AMD 15h, Memory: 2 x 4 GB DDR4-1866MT/s Micron 4ATF51264HZ-2G3B1, Disk: 32GB SanDisk SD8SMAT-, Graphics: AMD Radeon R5/R6/R7, Audio: AMD Kabini HDMI/DP, Network: Realtek RTL8111/8168/8411 + Intel Dual Band-AC 3168NGW

OS: Debian 11, Kernel: 5.10.0-10-amd64 (x86_64), Desktop: Cinnamon 4.8.6, Display Server: X Server 1.20.11, Vulkan: 1.0.2, Compiler: GCC 10.2.1 20210110, File-System: ext4, Screen Resolution: 2560x1440

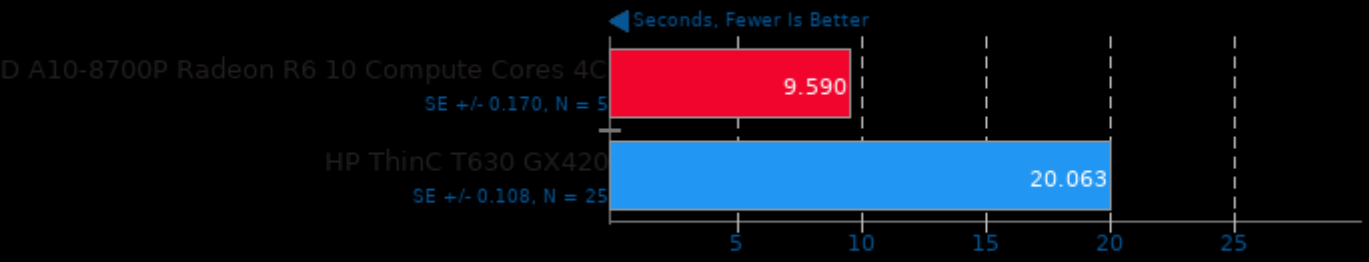
Kernel Notes: Transparent Huge Pages: always
Compiler Notes: --build=x86_64-linux-gnu --disable-vtable-verify --disable-werror --enable-bootstrap --enable-checking=release --enable-clocale=gnu --enable-default-pie --enable-gnu-unique-object --enable-languages=c,ada,c++,go,brig,d,fortran,objc,obj-c++,m2 --enable-libphobos-checking=release --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-link-mutex --enable-multiarch --enable-multilib --enable-nls --enable-objc-gc=auto --enable-offload-targets=nvptx-none=/build/gcc-10-Km9U7s/gcc-10-10.2.1/debian/tmp-nvptx/usr,amdgcn-amdhsa=/build/gcc-10-Km9U7s/gcc-10-10.2.1/debian/tmp-gcn/usr, hsa --enable-plugin --enable-shared --enable-threads=posix --host=x86_64-linux-gnu --program-prefix=x86_64-linux-gnu- --target=x86_64-linux-gnu --with-abi=m64 --with-arch-32=i686 --with-build-config=bootstrap-lto-lean --with-default-libstdcxx-abi=new --with-gcc-major-version-only --with-multilib-list=m32,m64,mx32 --with-target-system-zlib=auto --with-tune=generic --without-cuda-driver -v
Processor Notes: Scaling Governor: acpi-cpufreq schedutil (Boost: Enabled) - CPU Microcode: 0x600611a
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 STIBP: disabled RSB filling + srbds: Not affected + tsx_async_abort: Not affected

	AMD A10-8700P Radeon R6 10 Compute Cores 4C	HP ThinC T630 GX420
FLAC Audio Encoding - WAV To FLAC (sec)	**9.59**	**20.063**
Normalized	100%	47.8%
Standard Deviation	4%	2.7%
C-Ray - Total Time (sec)	**84.90**	**149.897**
Normalized	100%	56.64%
Standard Deviation	0.1%	0.3%
OpenSSL - R.4.b.P (Signs/sec)	**213.33**	**111.8**
Normalized	100%	52.41%
Standard Deviation	0.2%	10.2%
Stockfish - Total Time (ms)	**6310**	**11022**
Normalized	100%	57.25%
Standard Deviation	0.1%	2.6%

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FLAC Audio Encoding 1.3.1

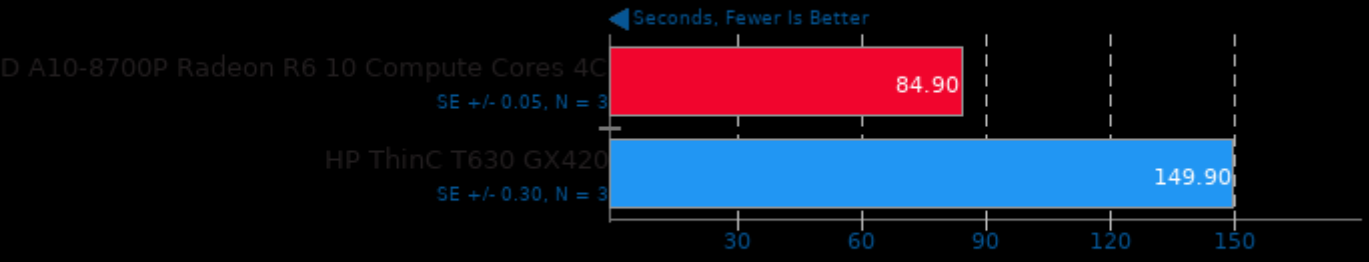
WAV To FLAC



1. (CXX) g++ options: -O2 -fvisibility=hidden -lm

C-Ray 1.1

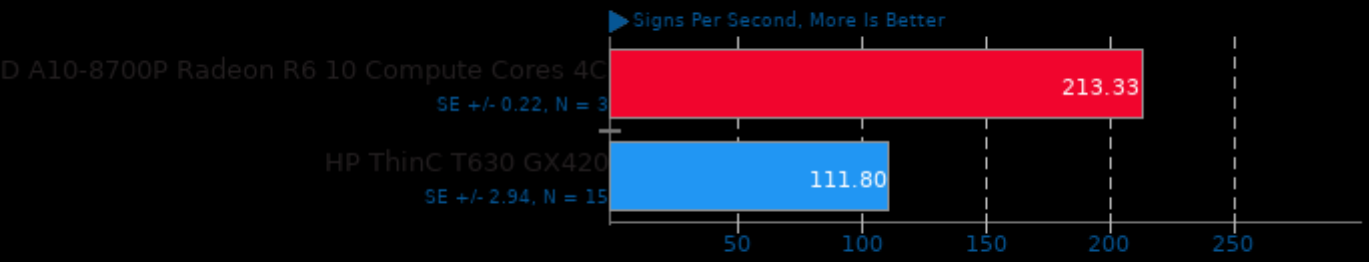
Total Time



1. (CC) gcc options: -lm -lpthread -O3

OpenSSL 1.0.1g

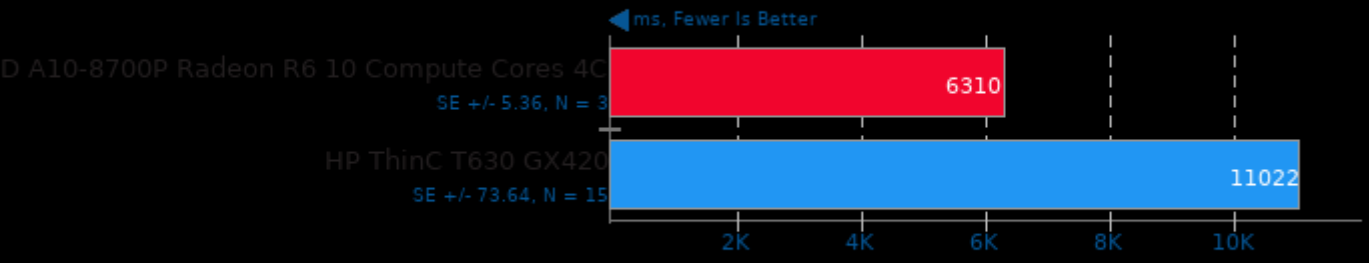
RSA 4096-bit Performance



1. (CC) gcc options: -m64 -O3 -lssl -lcrypto -ldl

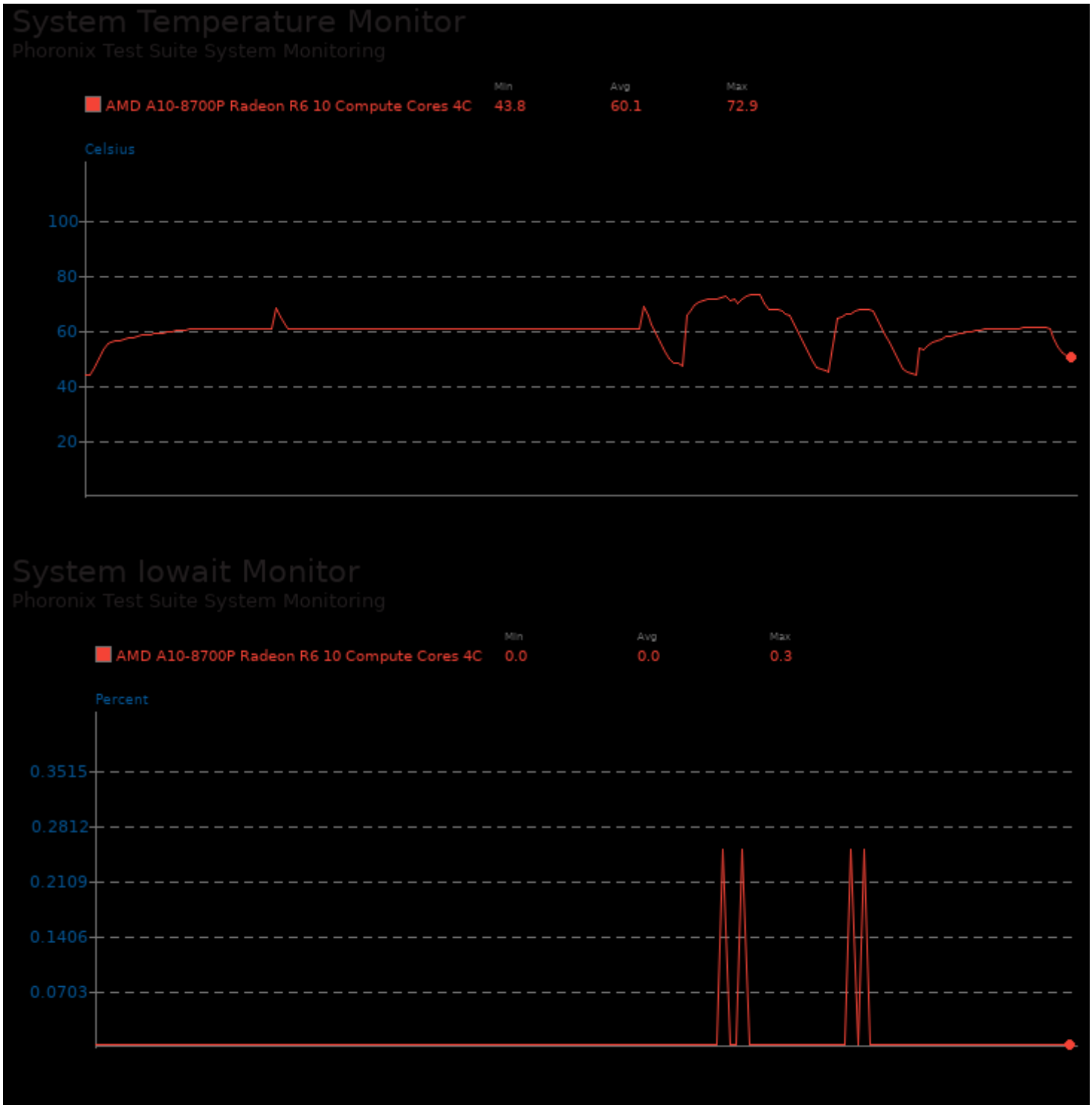
Stockfish 2014-11-26

Total Time

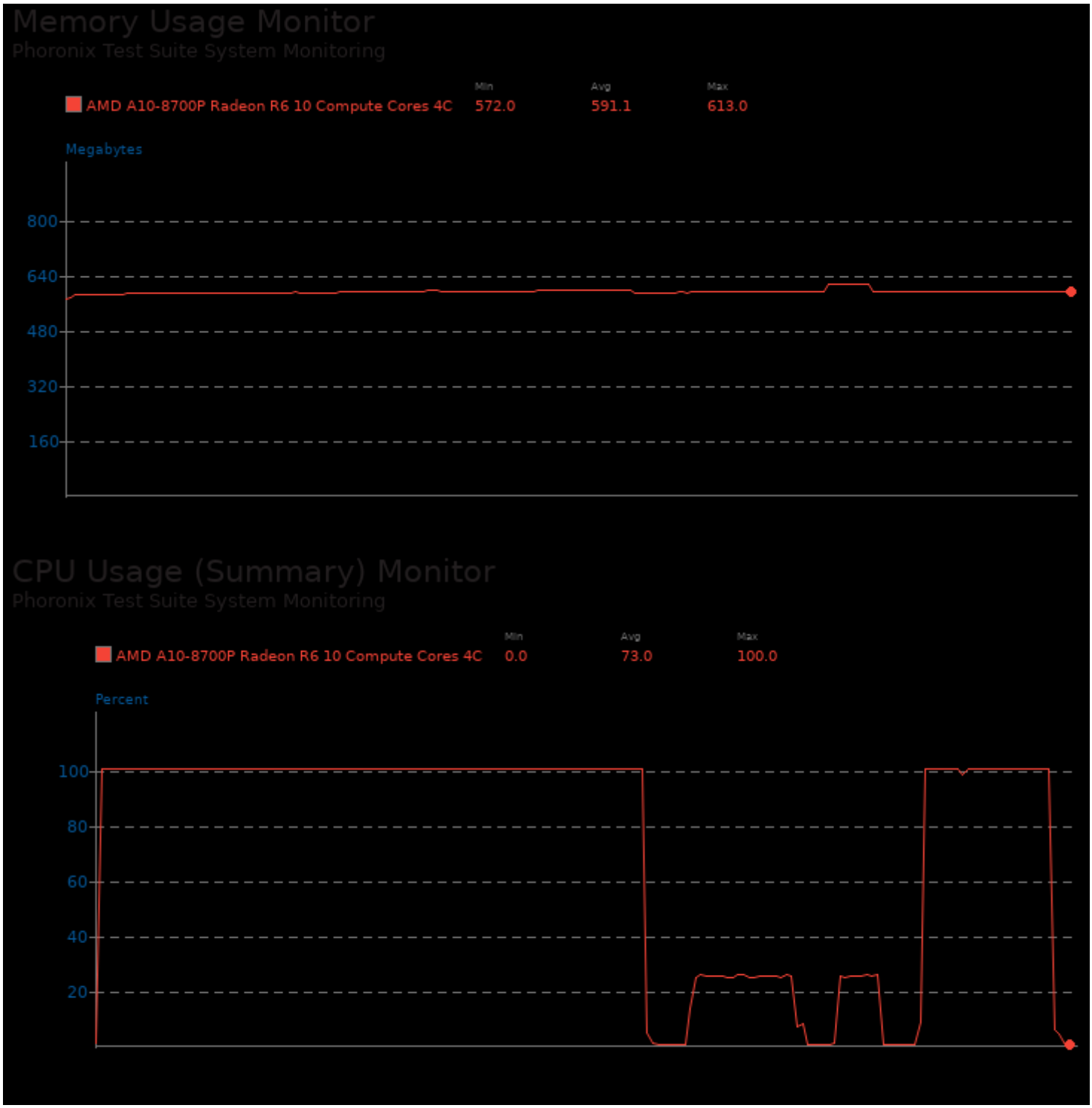


1. (CXX) g++ options: -lpthread -fno-exceptions -fno-rtti -ansi -pedantic -O3 -msse -msse3 -mpopcnt -flto

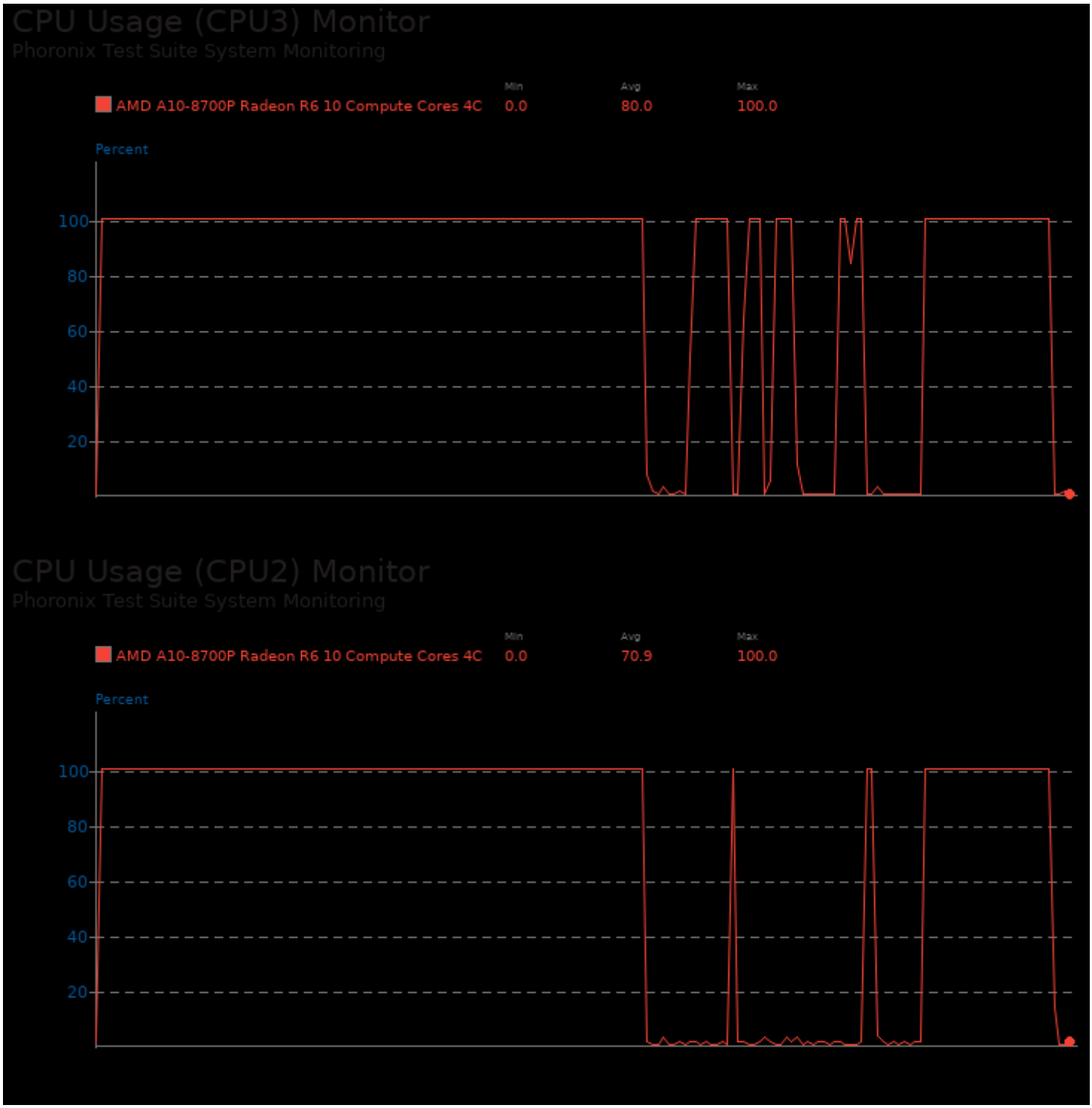
A10-8700P Monitor Test



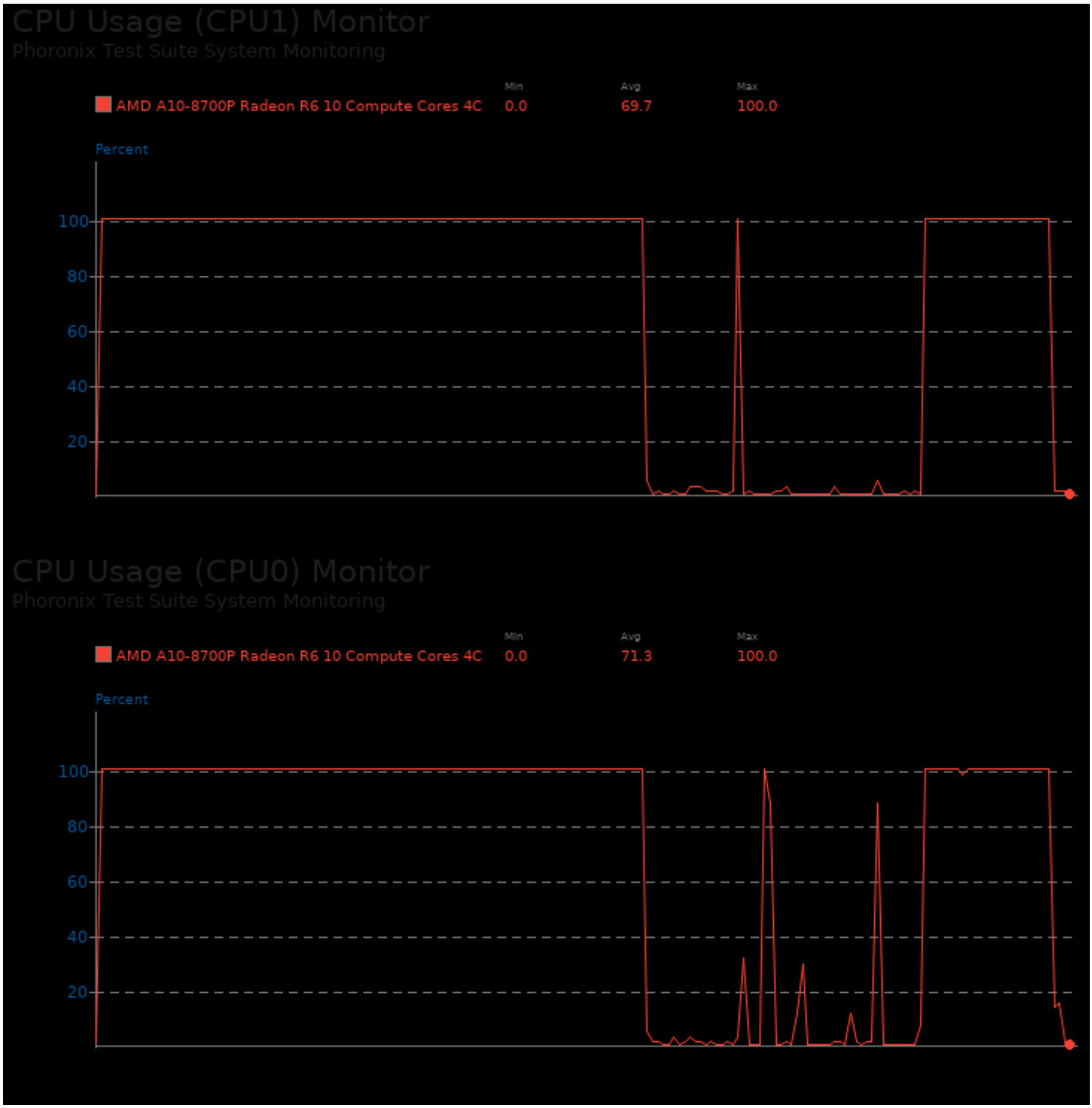
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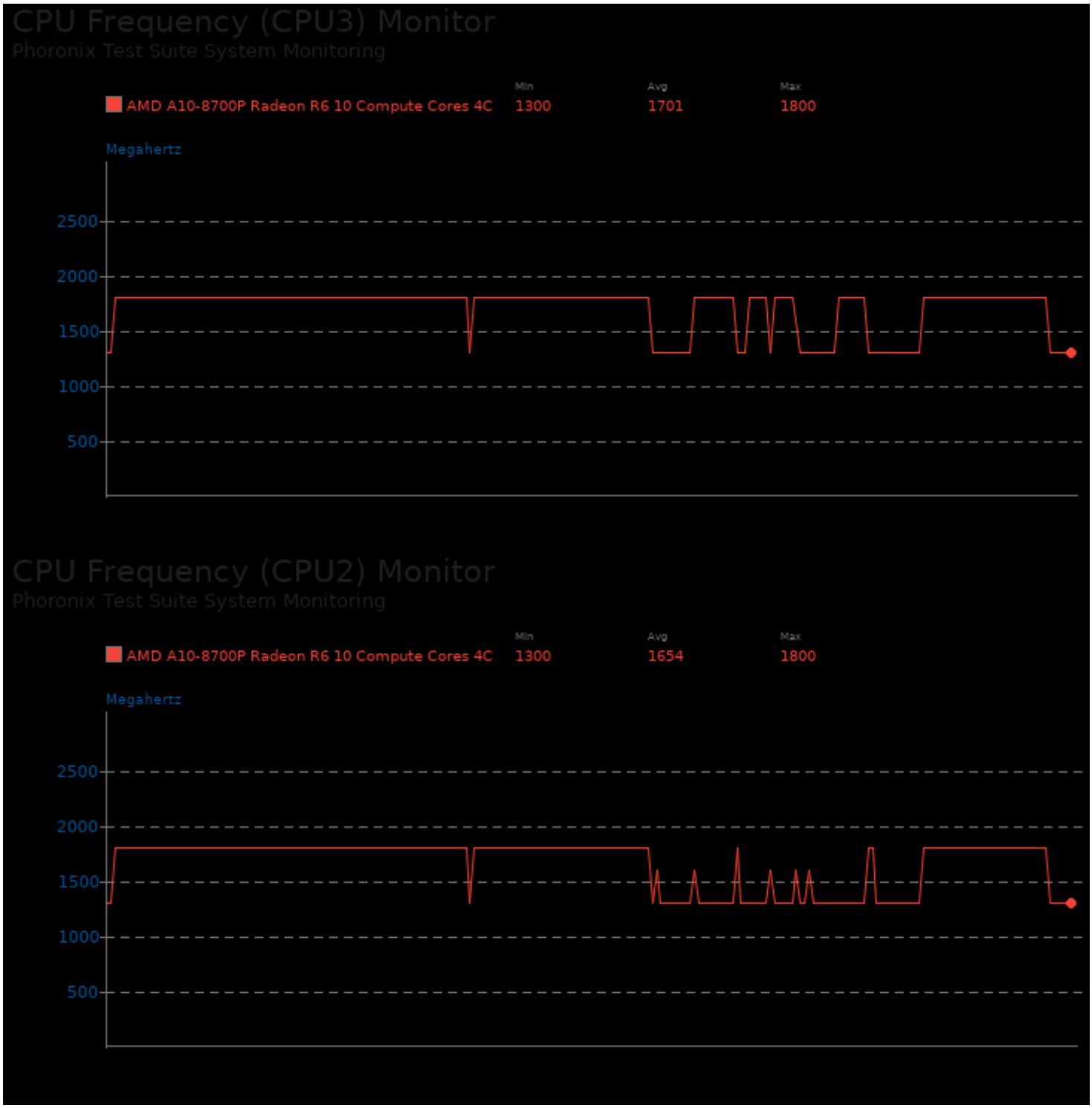
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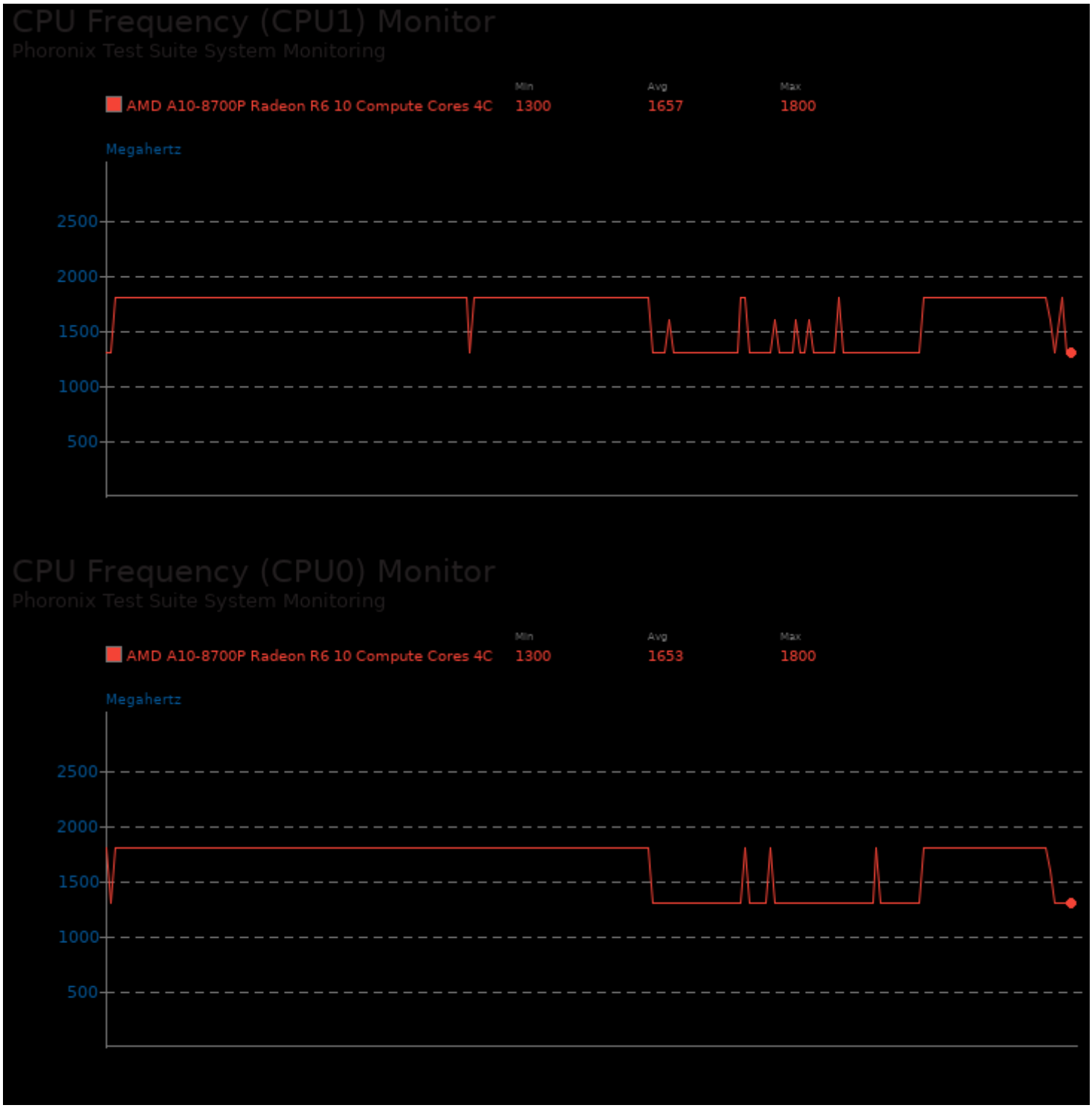
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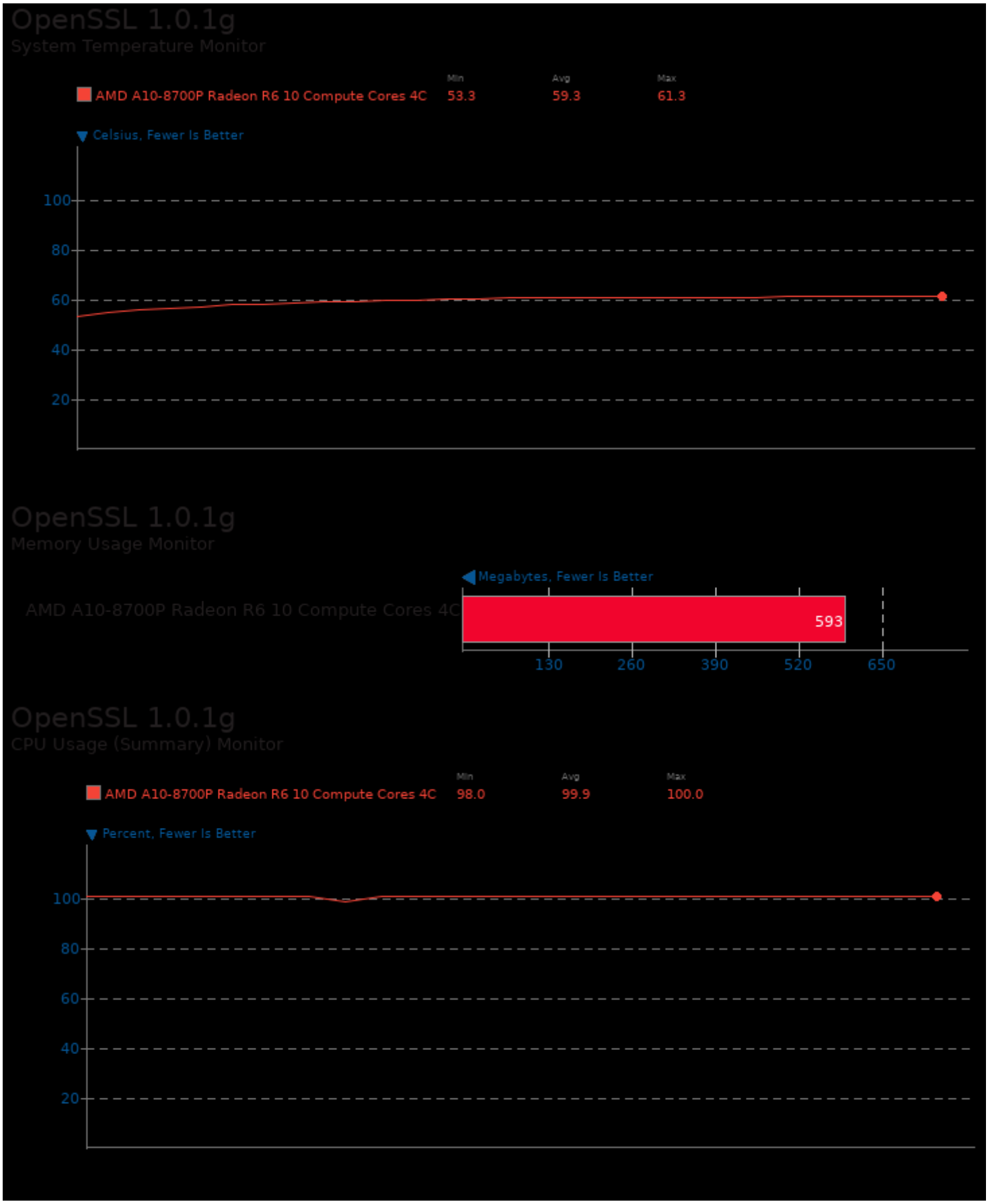
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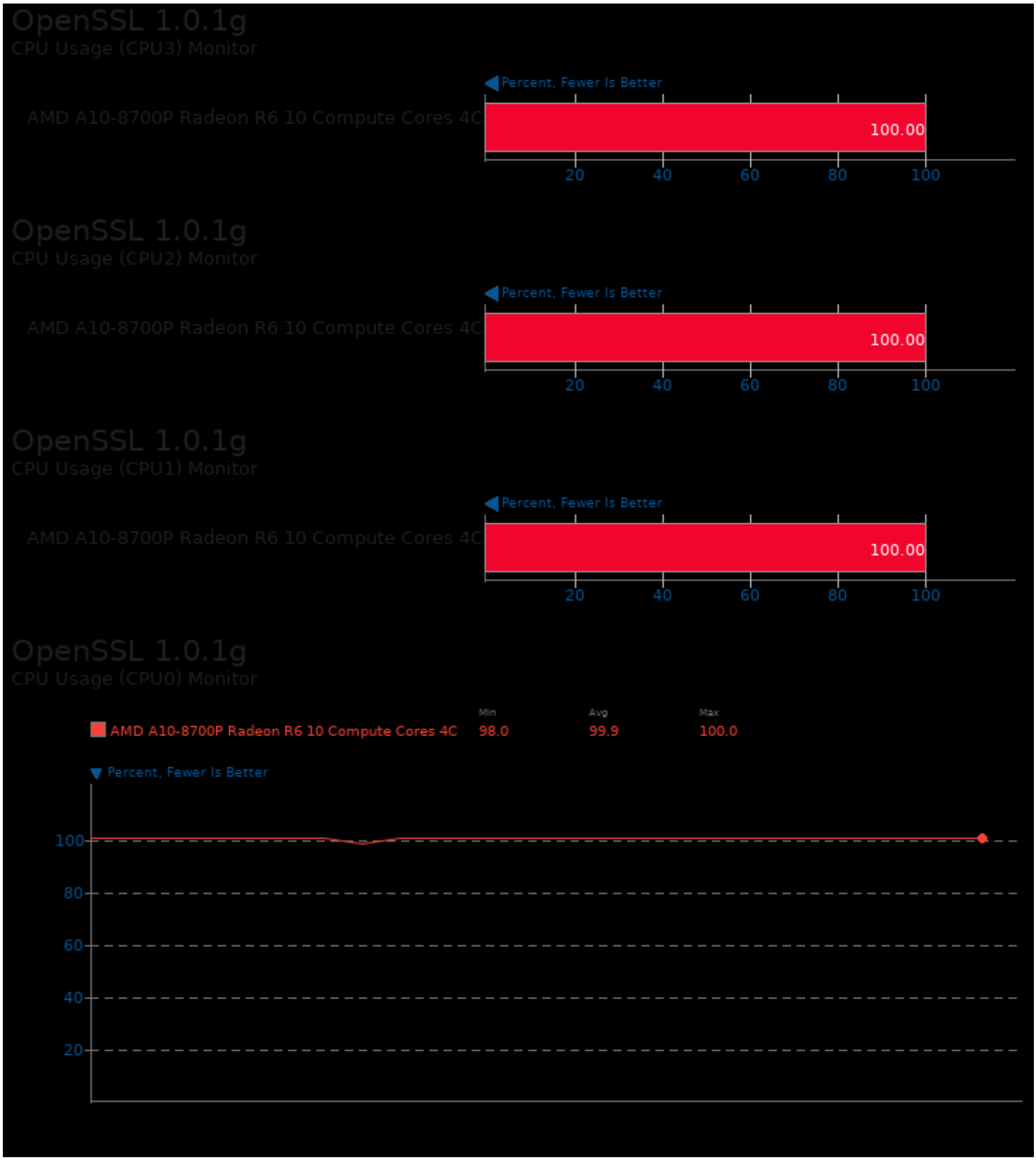
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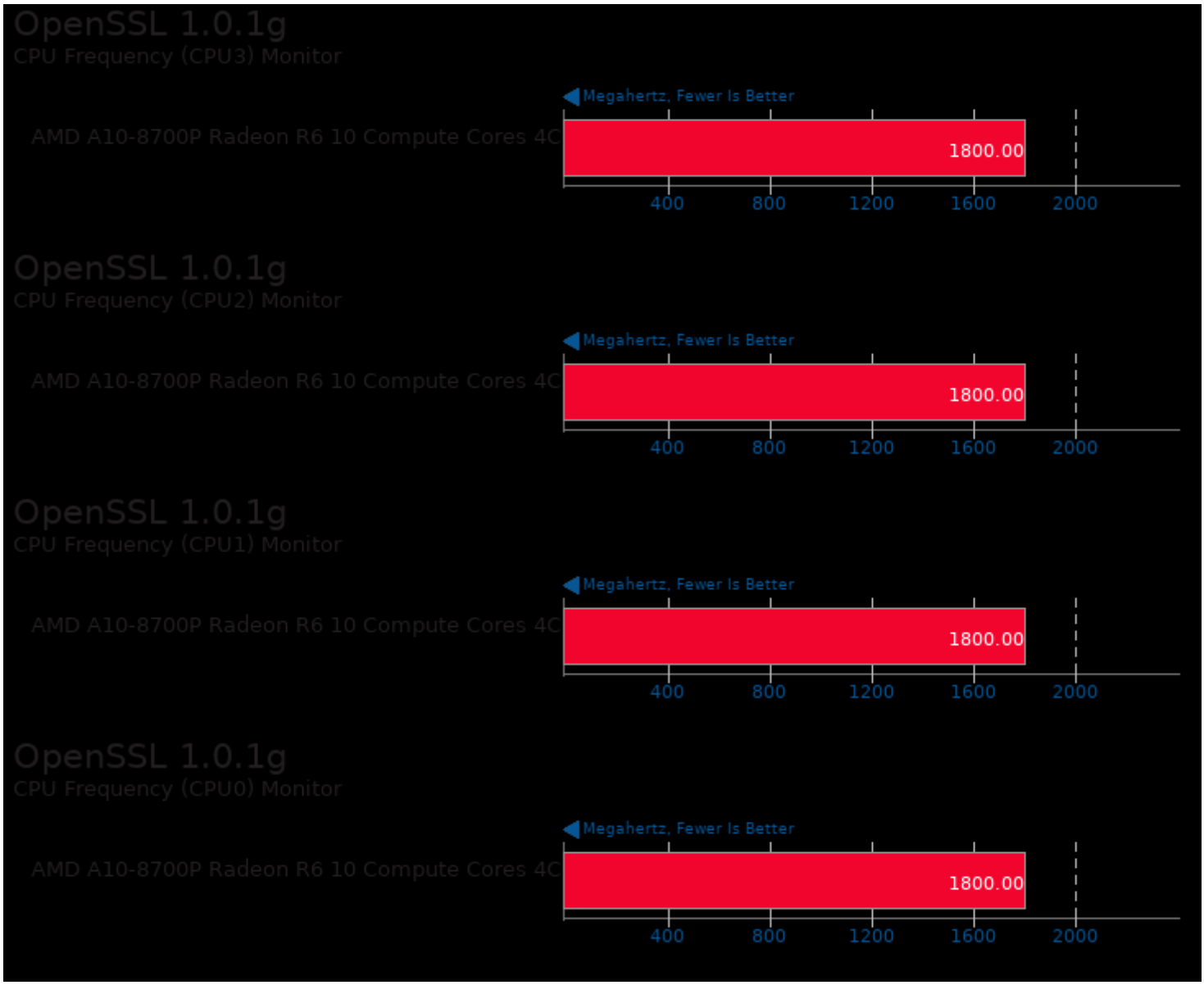
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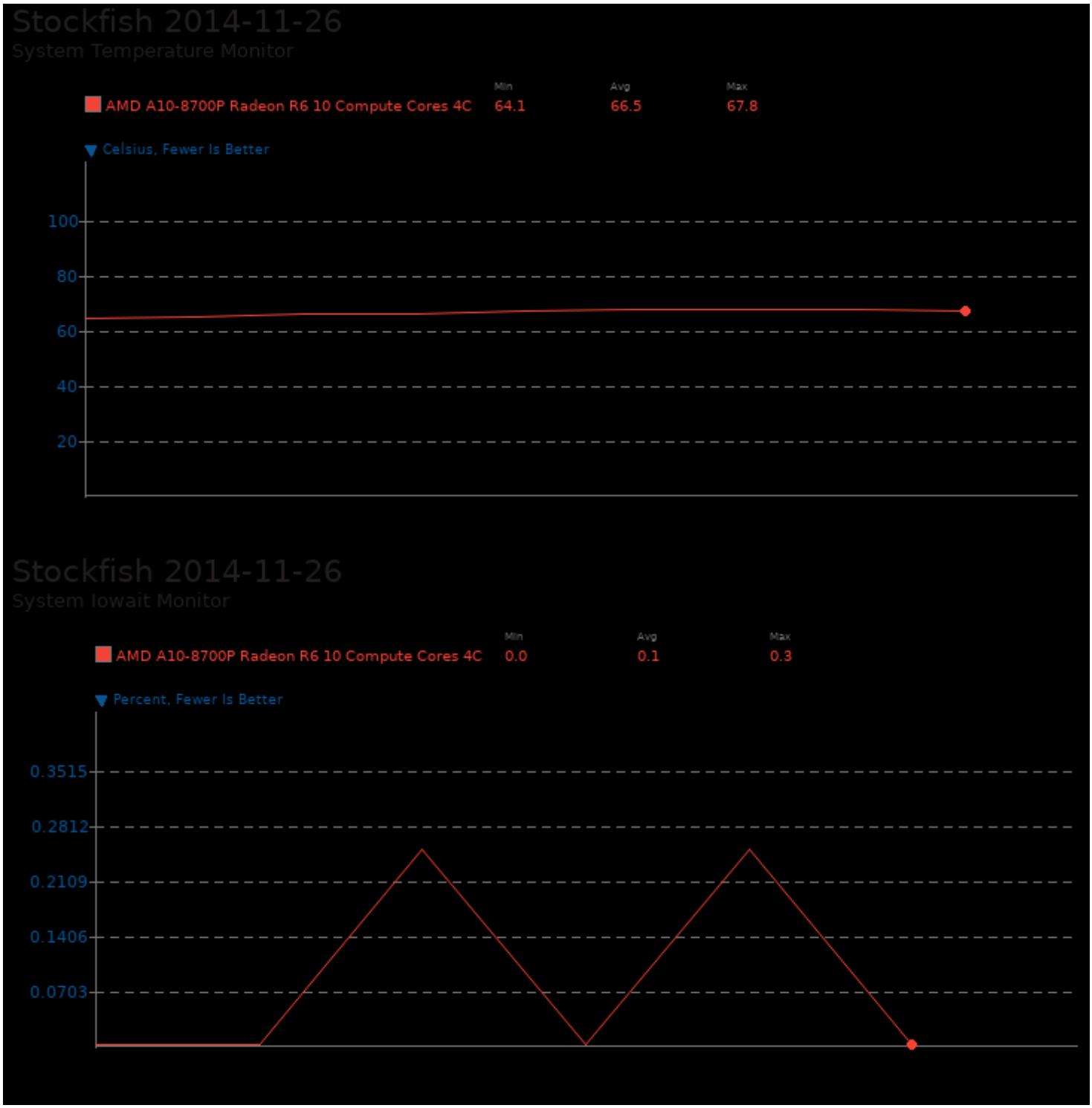
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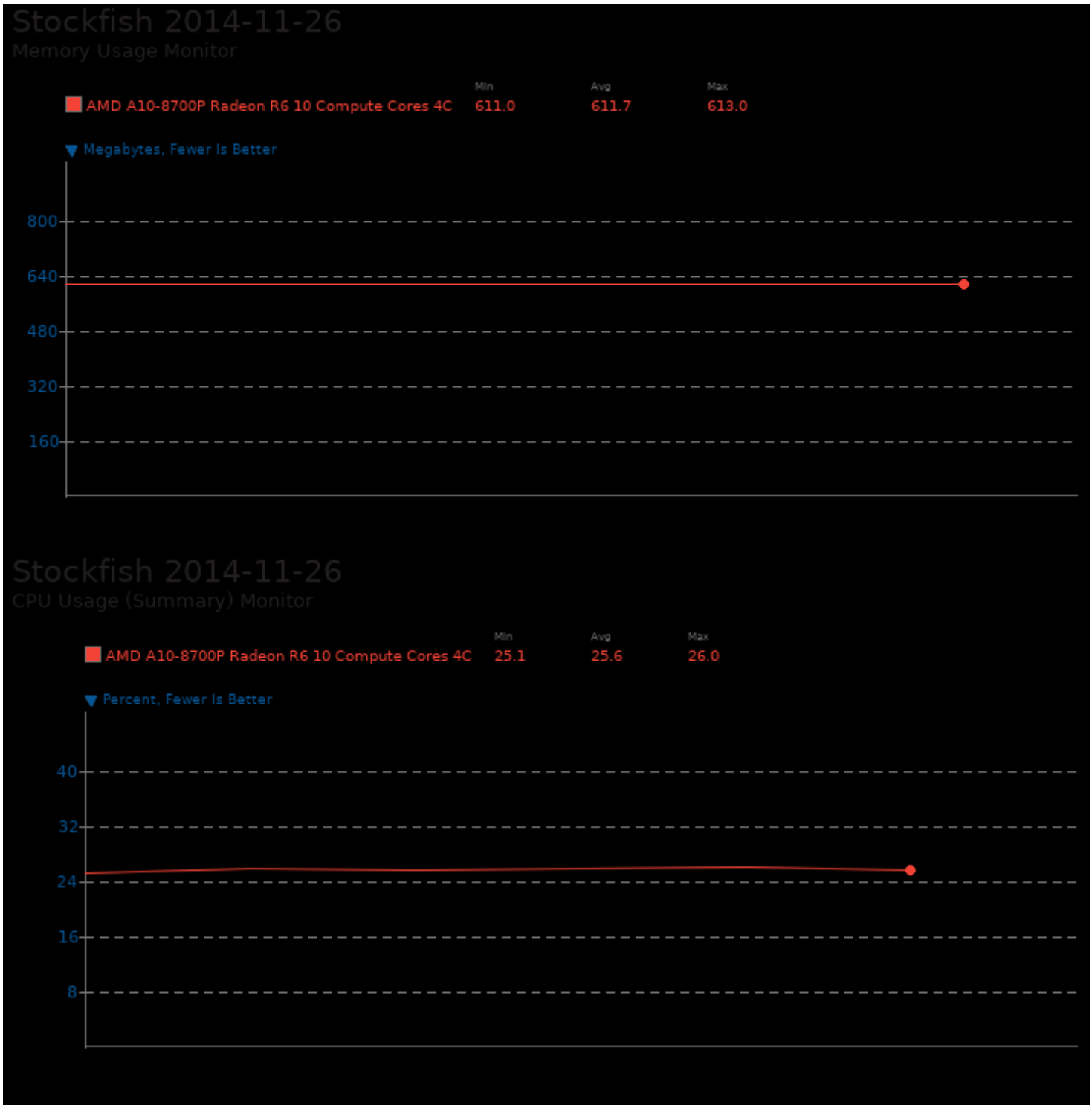
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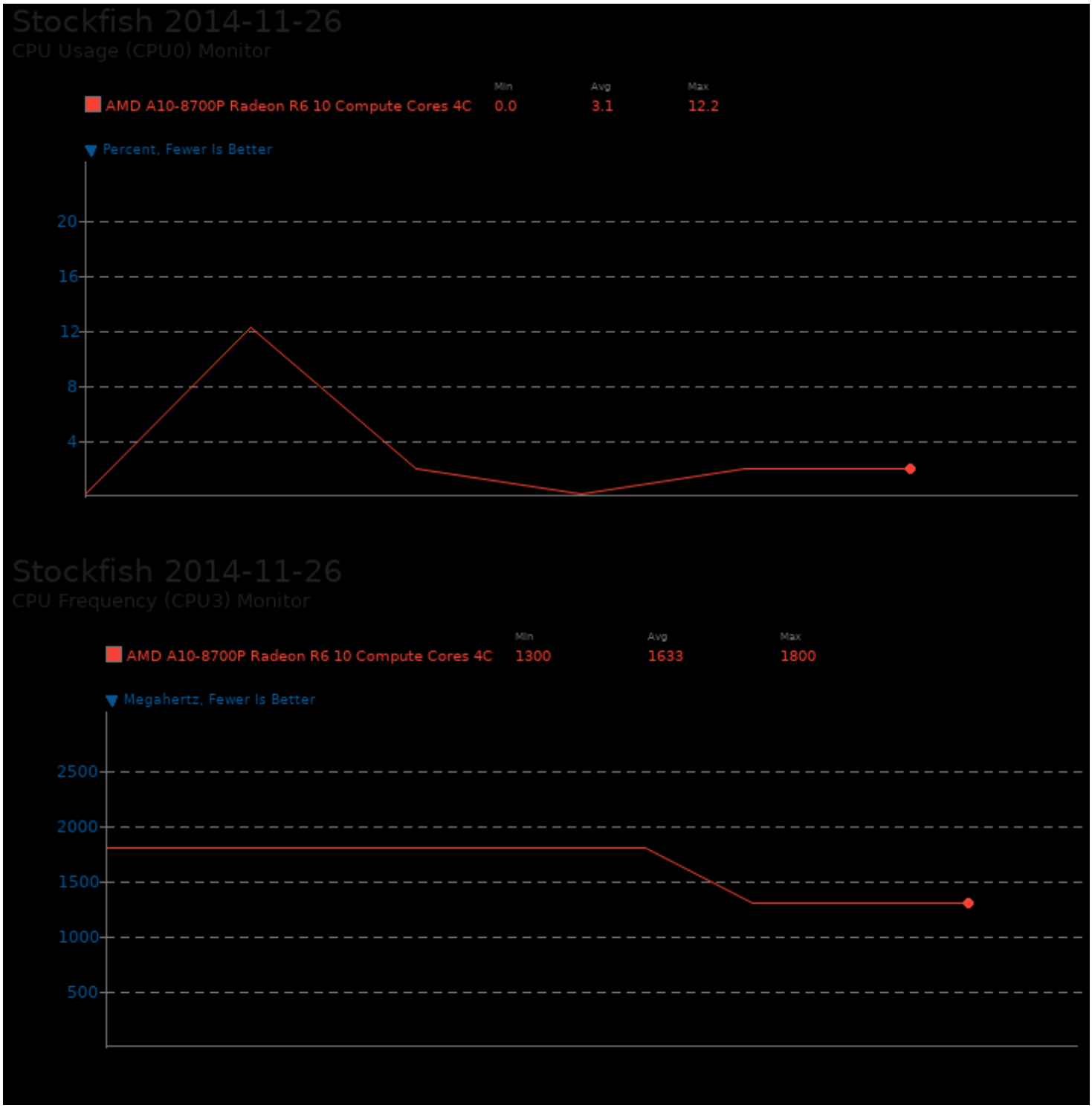
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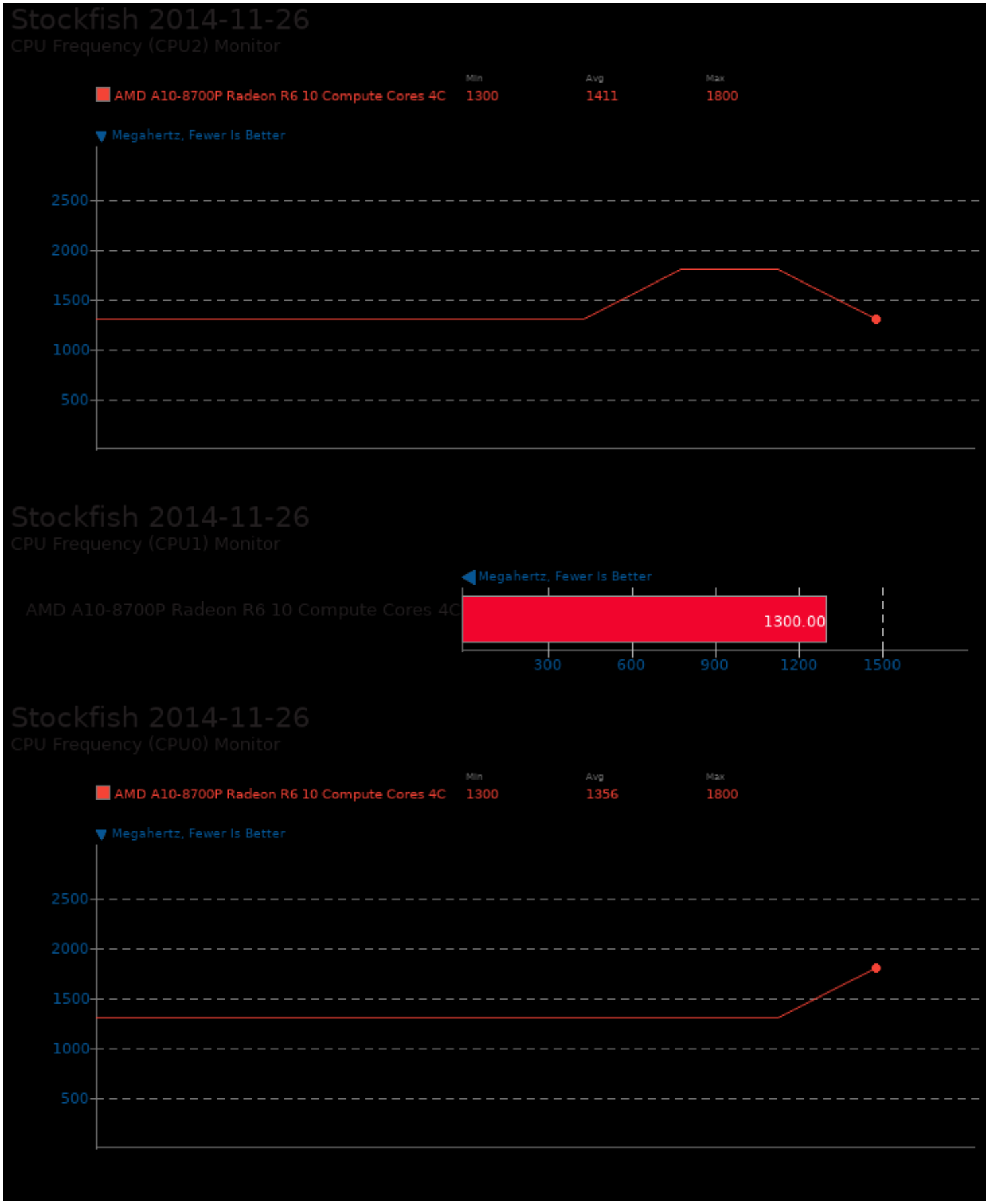
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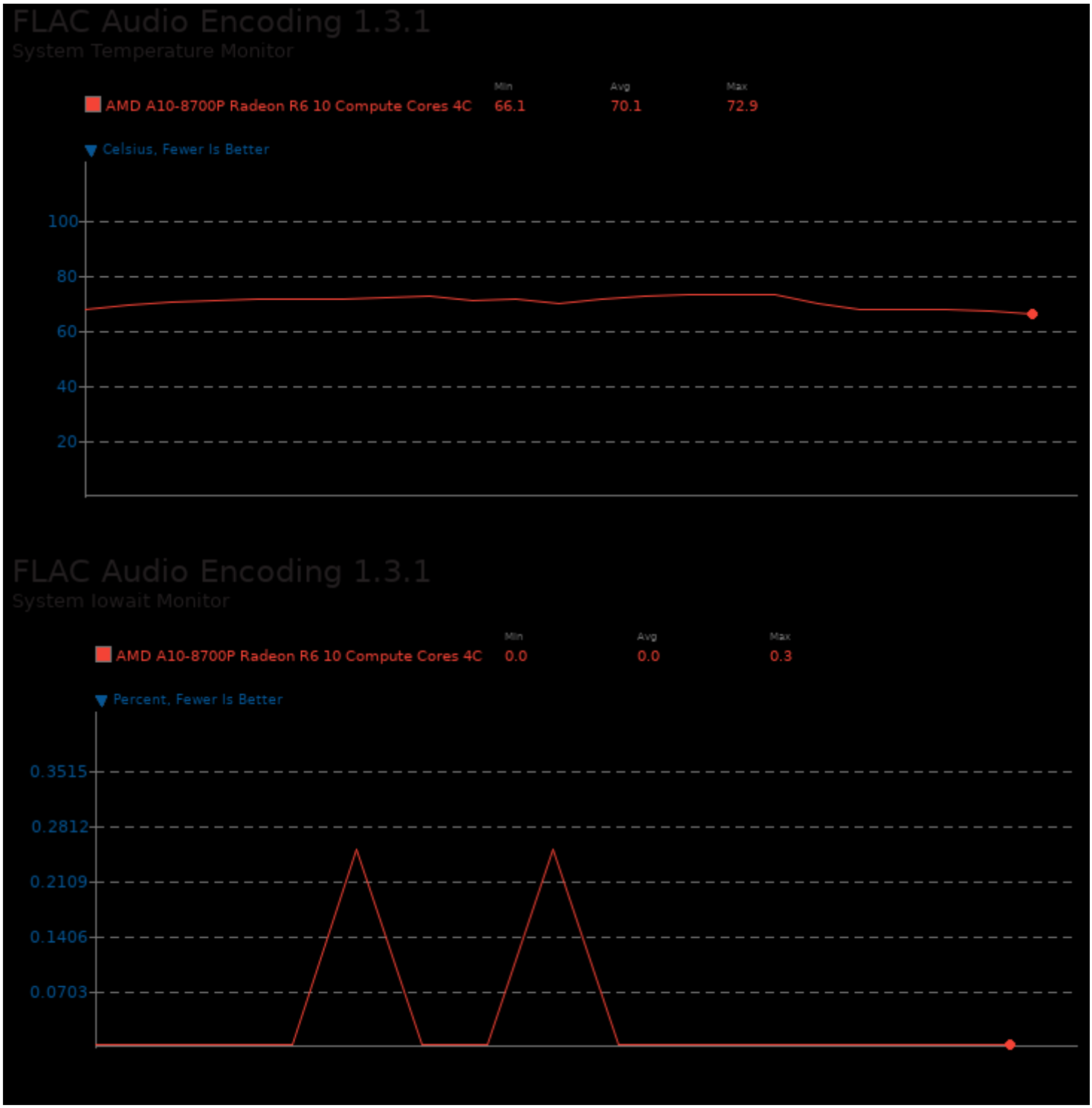
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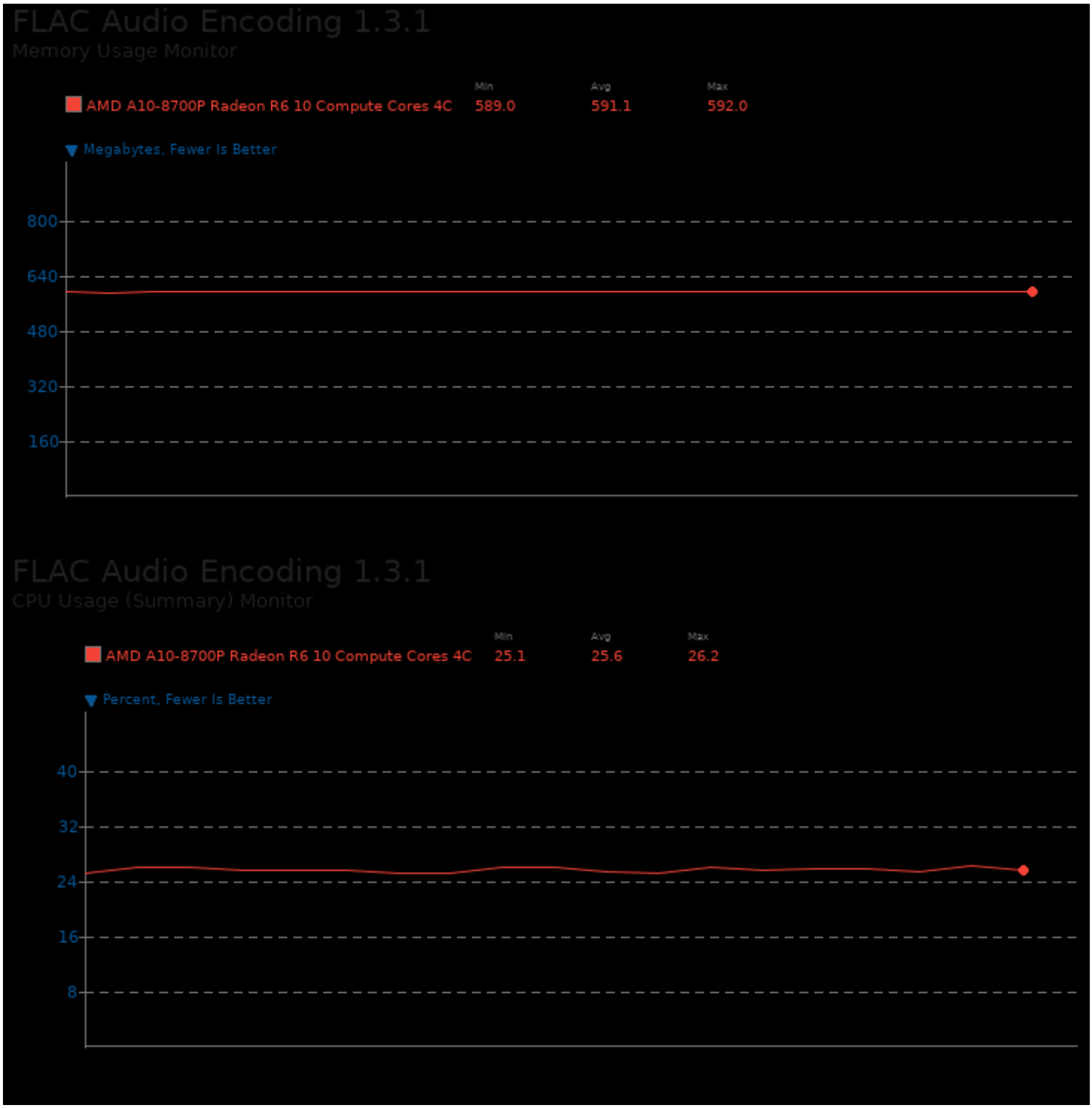
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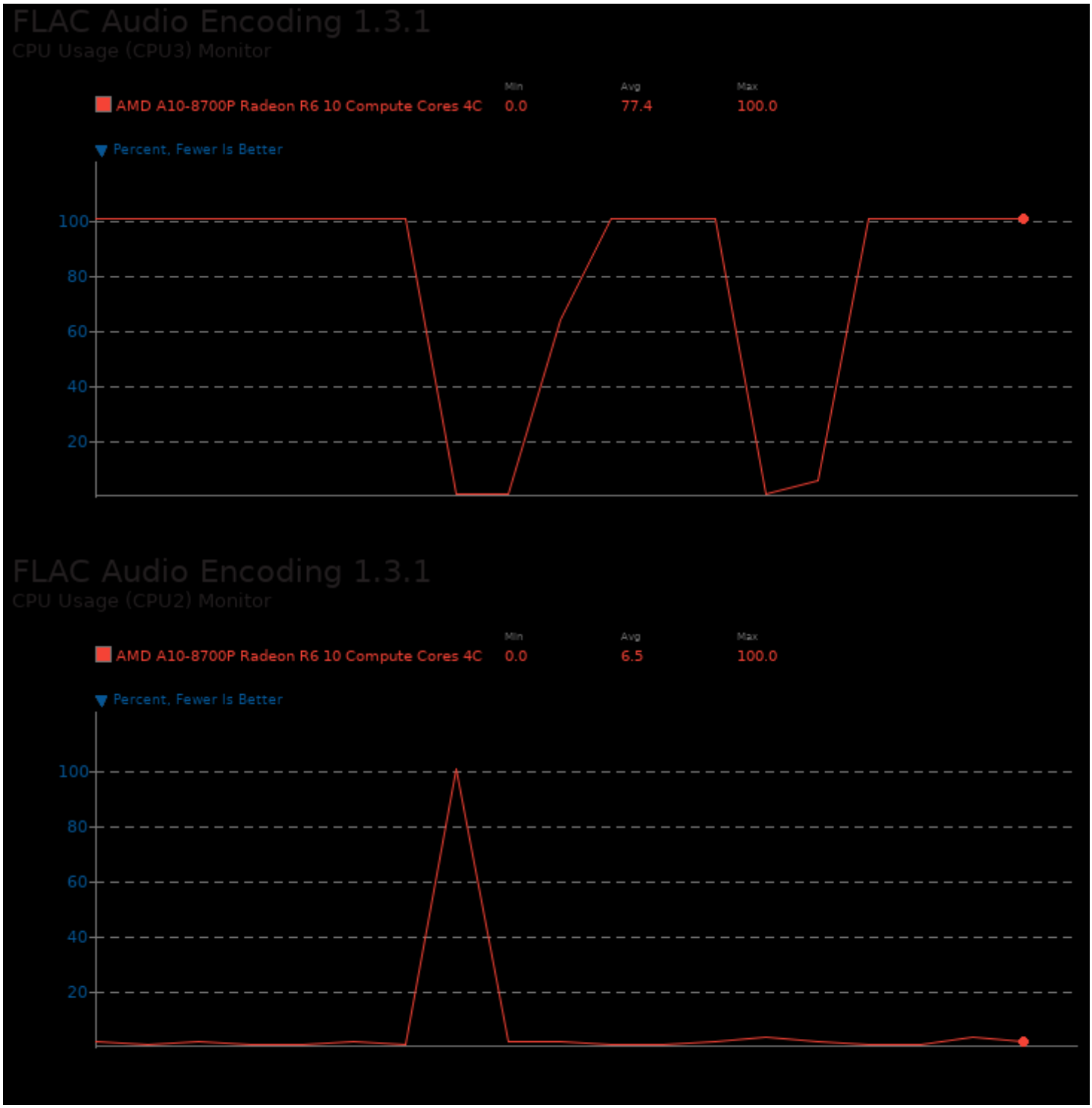
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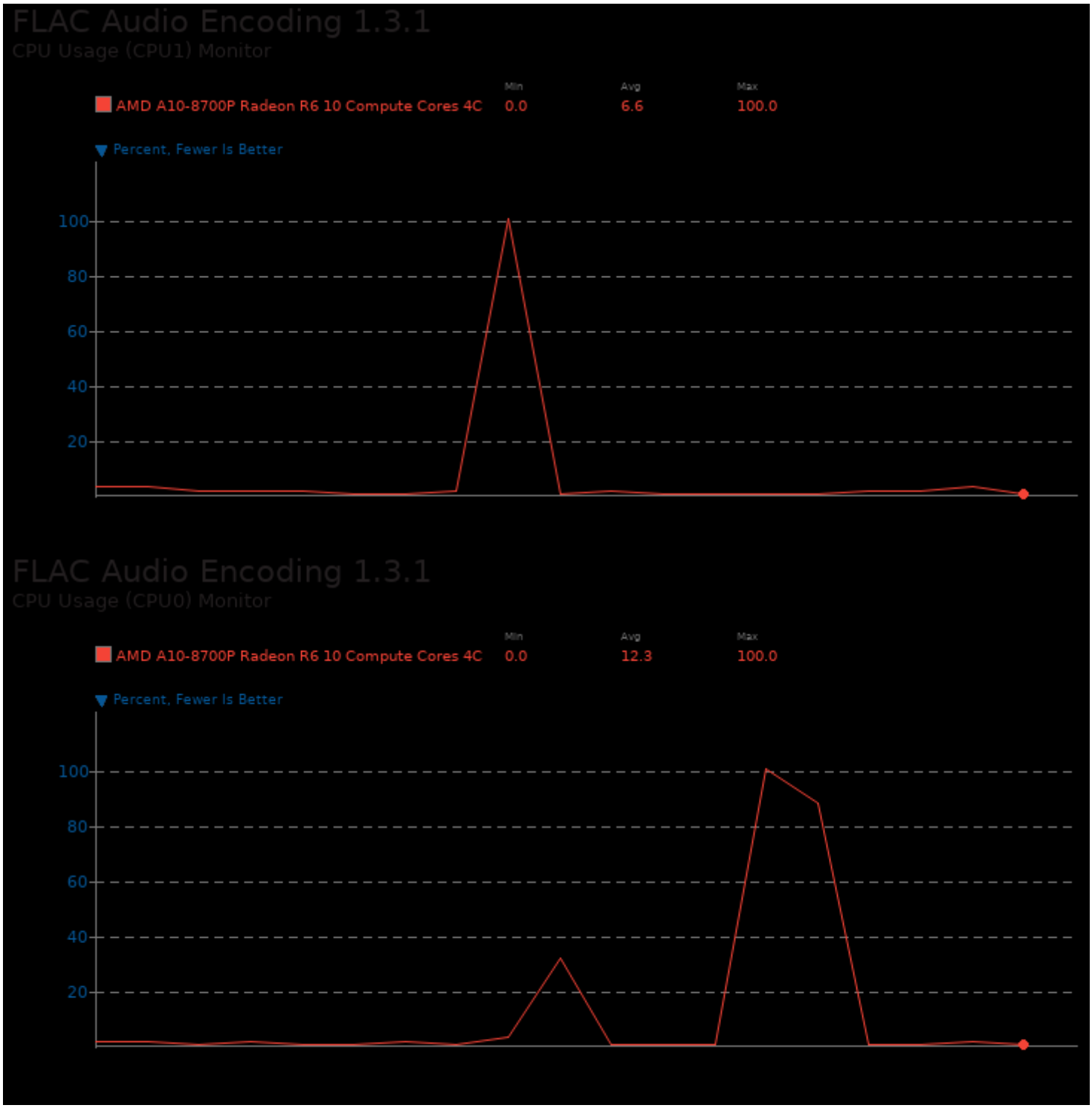
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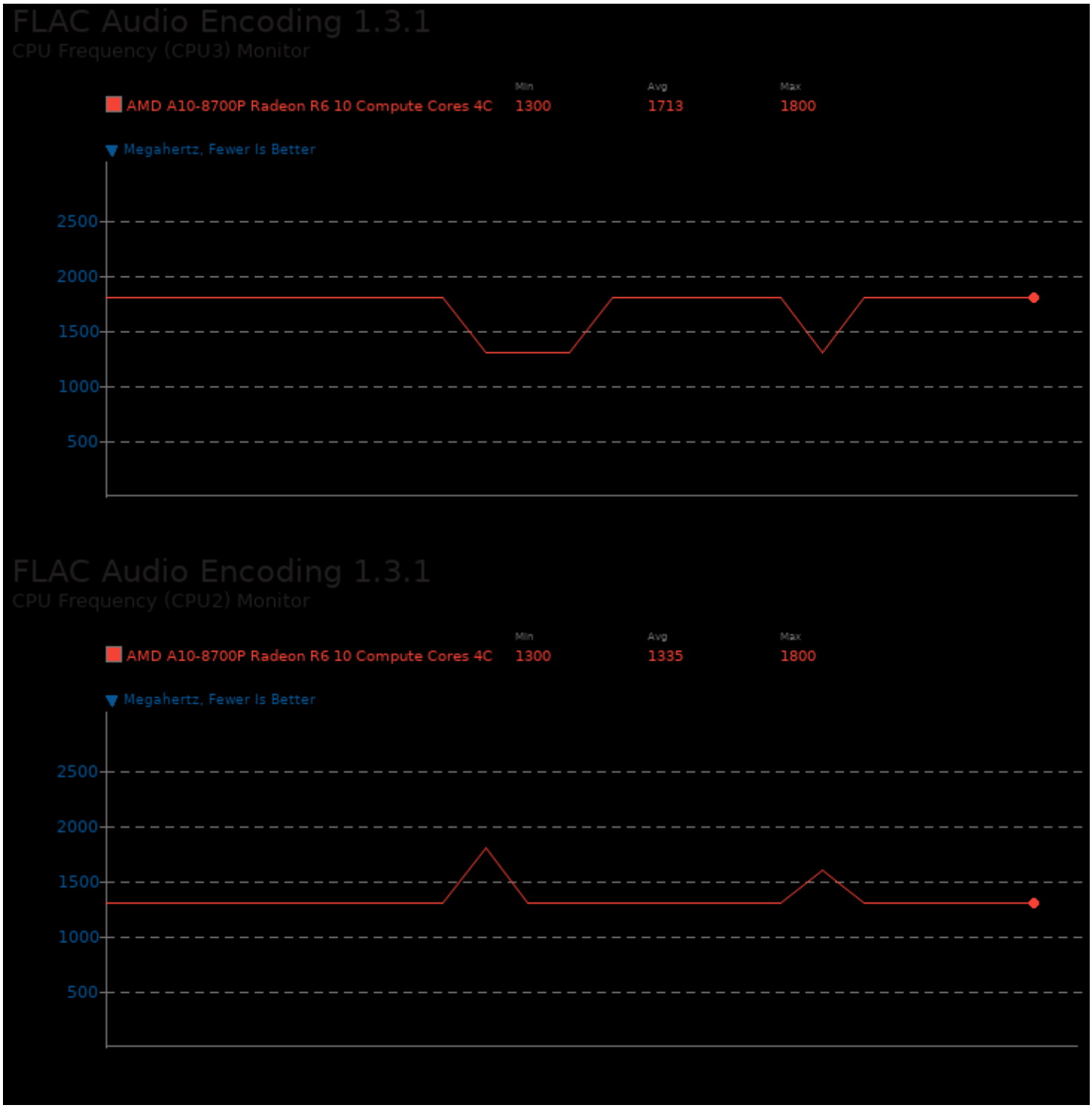
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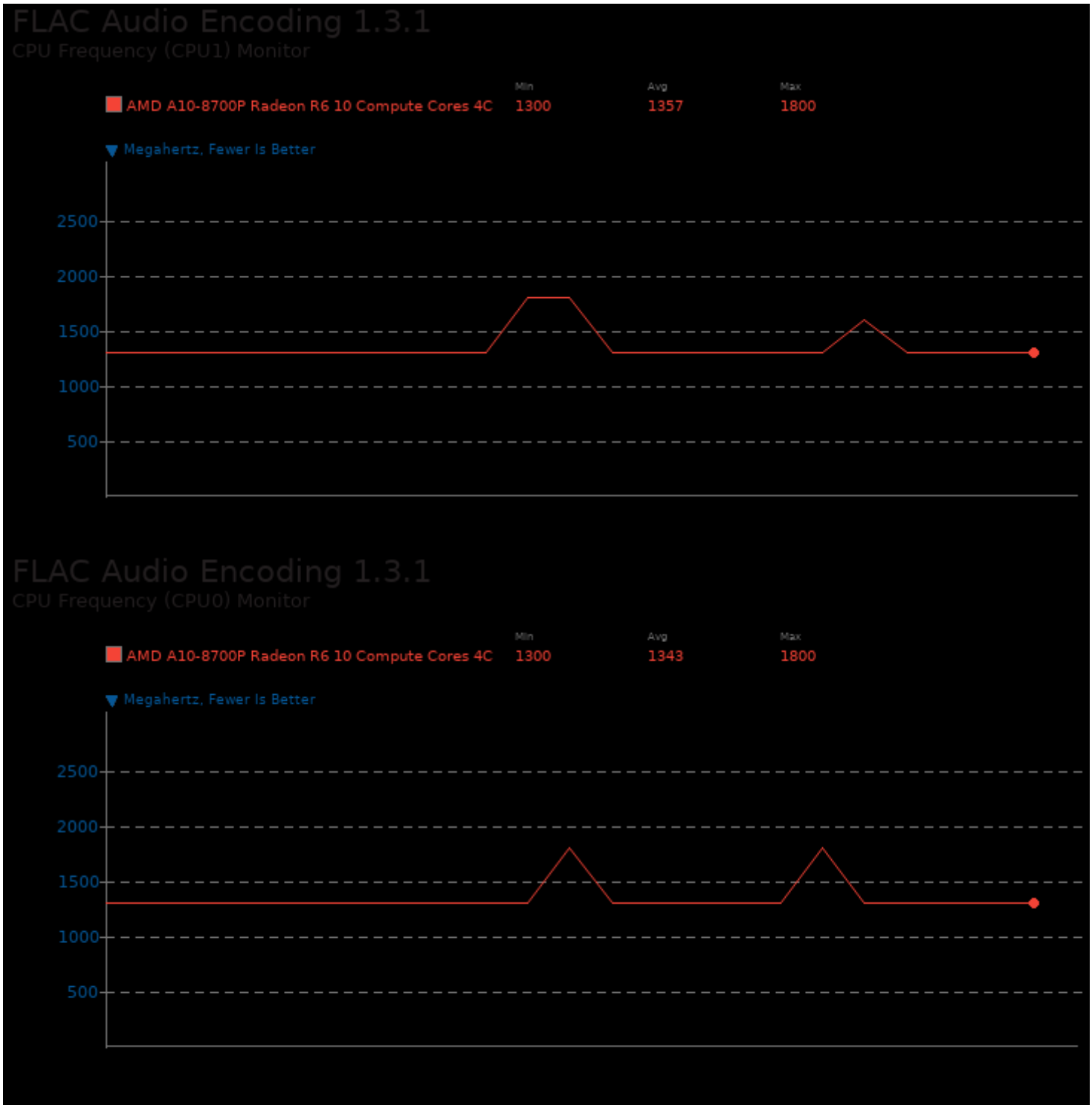
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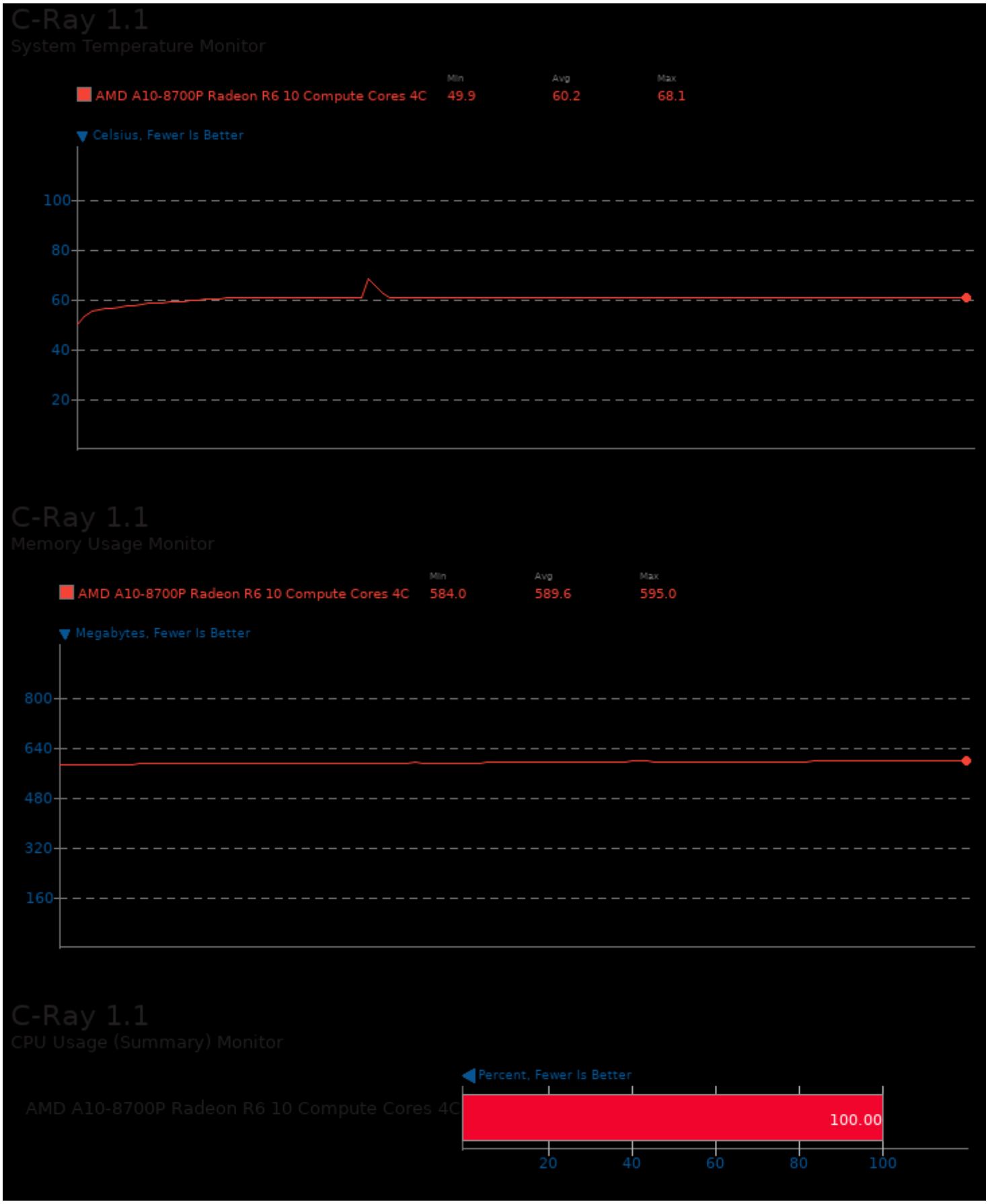
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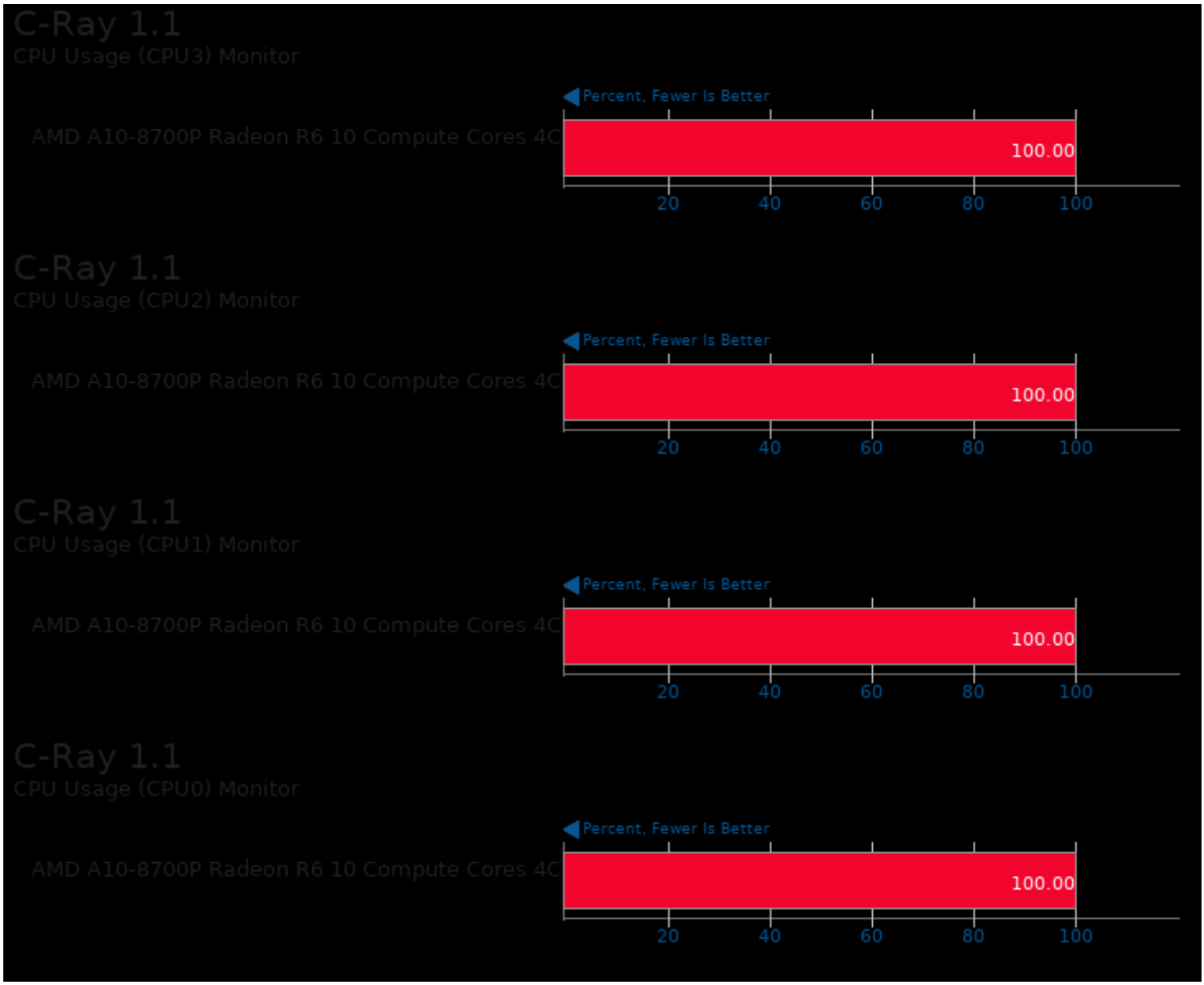
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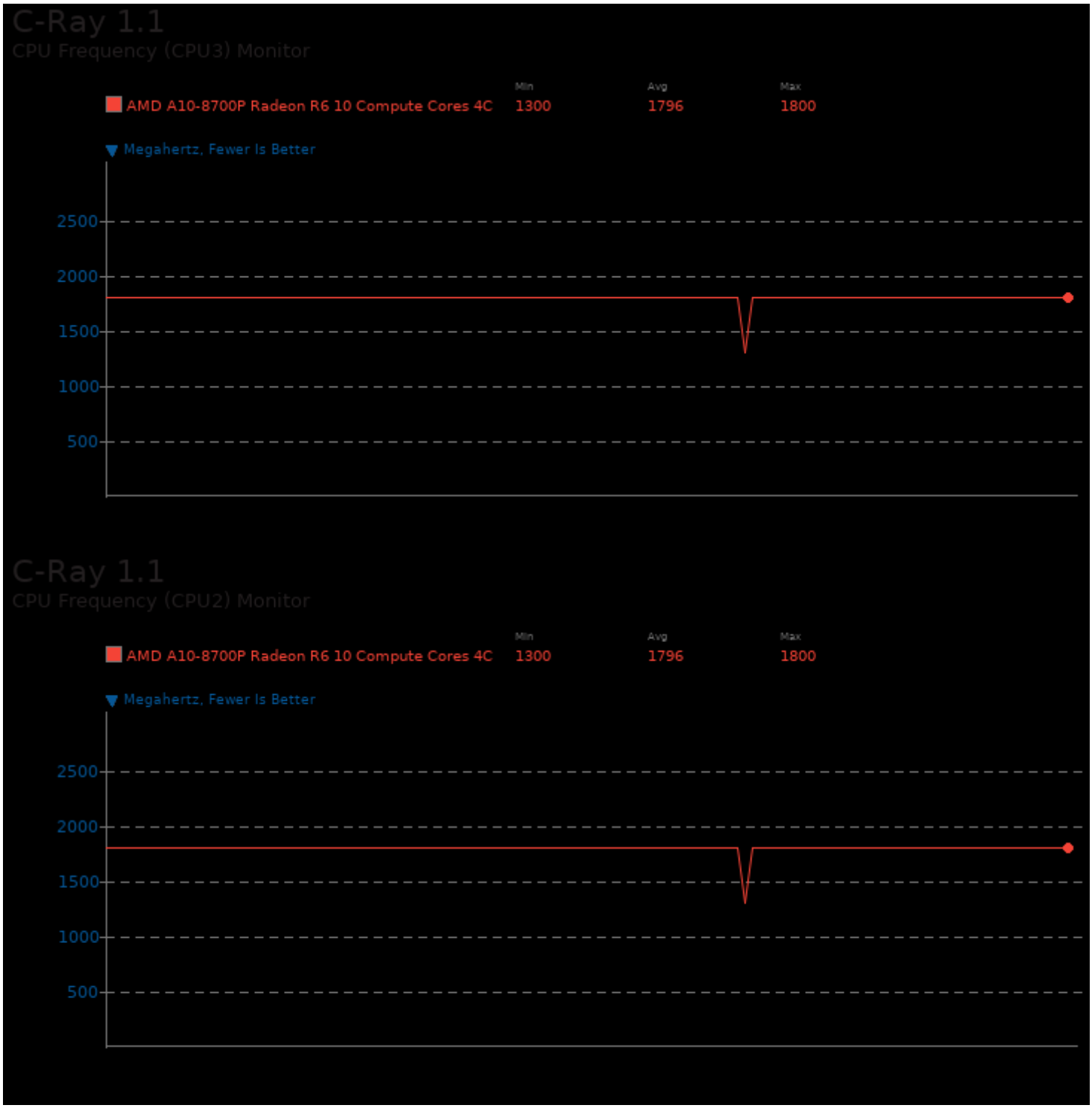
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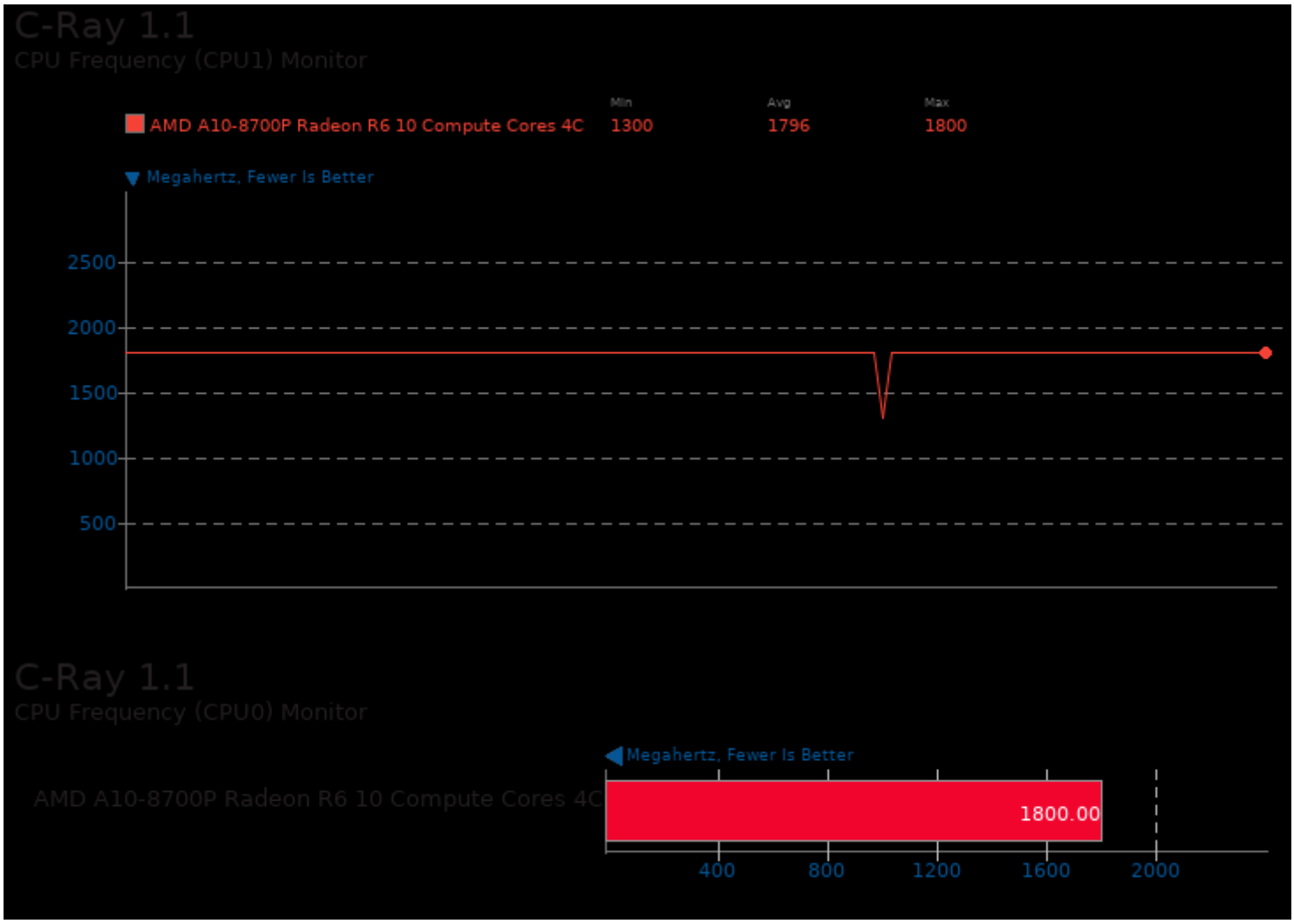
A10-8700P Monitor Test



A10-8700P Monitor Test

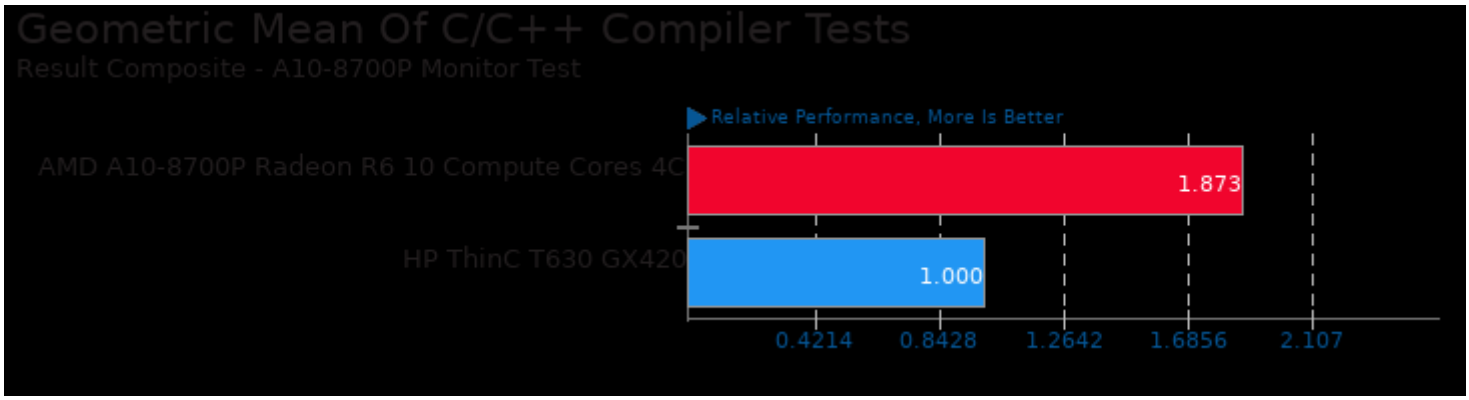


A10-8700P Monitor Test



A10-8700P Monitor Test

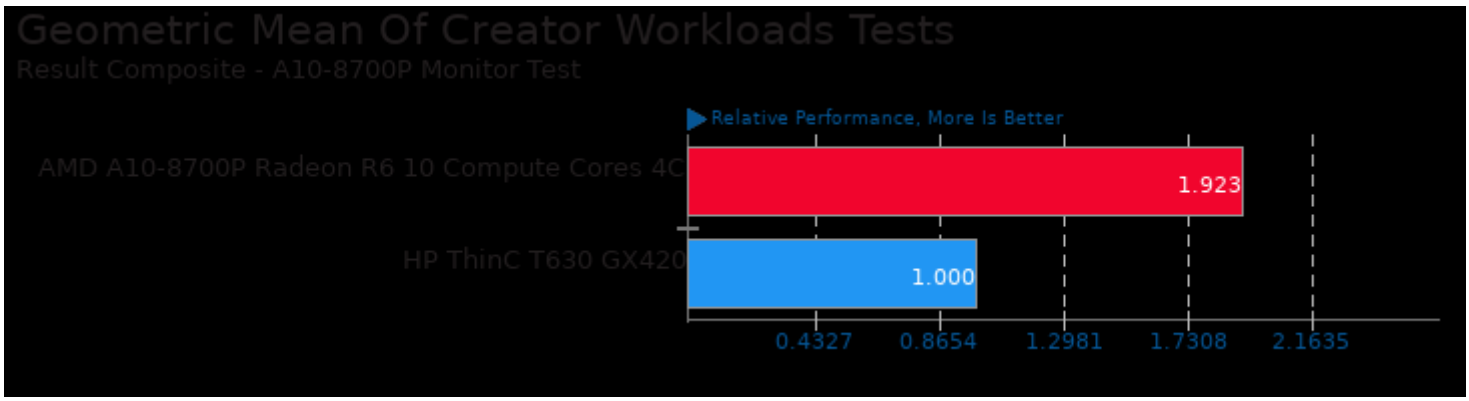
These geometric means are based upon test groupings / test suites for this result file.



Geometric mean based upon tests: pts/stockfish, pts/c-ray, pts/encode-flac and pts/openssl

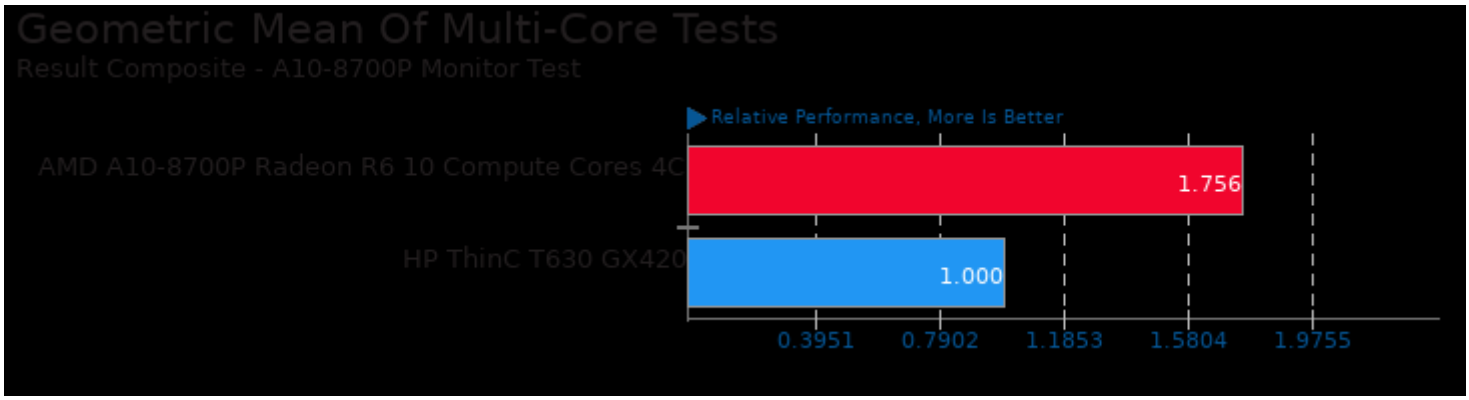


Geometric mean based upon tests: pts/c-ray, pts/encode-flac, pts/openssl and pts/stockfish

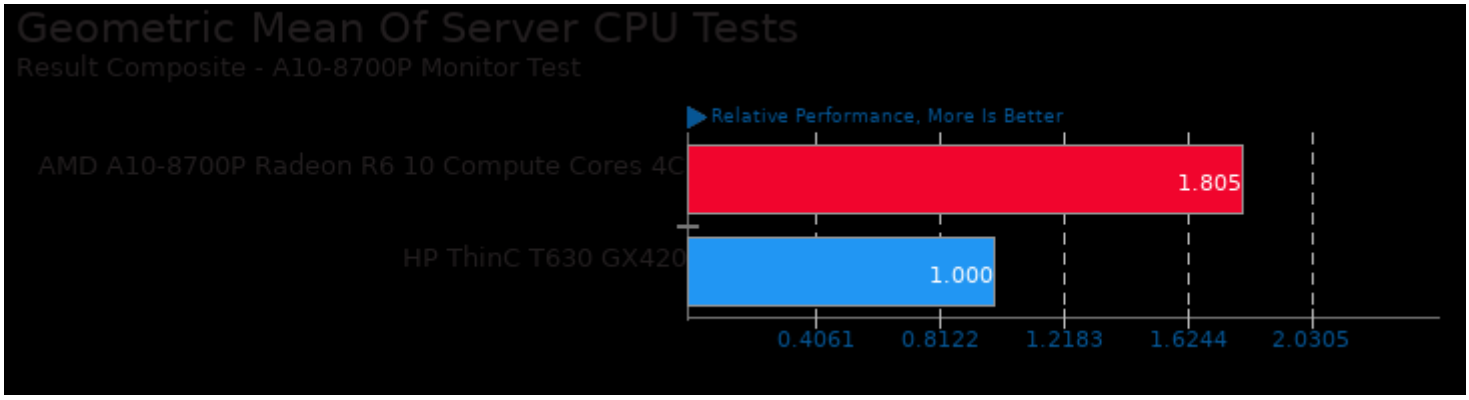


Geometric mean based upon tests: pts/c-ray and pts/encode-flac

A10-8700P Monitor Test



Geometric mean based upon tests: pts/c-ray and pts/stockfish



Geometric mean based upon tests: pts/stockfish, pts/c-ray and pts/openssl

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