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AMD Ryzen 9 5900X 12-Core testing with a Gigabyte X570 AORUS MASTER (F36f BIOS) and AMD Radeon Pro W5500 8GB on Red Hat Enterprise Linux 8.7 via the Phoronix Test Suite.

Test Systems:

AMD Ryzen 9 5900X 12-Core - AMD Radeon Pro W5500 8GB

Processor: AMD Ryzen 9 5900X 12-Core @ 3.70GHz (12 Cores / 24 Threads), Motherboard: Gigabyte X570 AORUS MASTER (F36f BIOS), Chipset: AMD Starship/Matisse, Memory: 32GB, Disk: 2 x 1000GB Samsung SSD 980 PRO 1TB + 16001GB TOSHIBA MG08ACA1 + 500GB Seagate ST500LM000-1EJ16, Graphics: AMD Radeon Pro W5500 8GB (1900/875MHz), Audio: AMD Navi 10 HDMI Audio, Monitor: PHL 345B1C + PHL 275B1, Network: Intel I211 + Realtek RTL8125 2.5GbE + Intel Wi-Fi 6 AX200

OS: Red Hat Enterprise Linux 8.6, Kernel: 5.4.220-1.el8.elrepo.x86_64 (x86_64), Desktop: GNOME Shell 3.32.2, Display Server: X Server 1.20.11 + Wayland, OpenGL: 4.6 Mesa 22.3.0-devel (LLVM 15.0.0 DRM 3.46), OpenCL: OpenCL 2.1 AMD-APP (3486.0), Vulkan: 1.2.195, Compiler: LLVM 13.0.1, File-System: ext4, Screen Resolution: 4880x2560

Kernel Notes: Transparent Huge Pages: always
Compiler Notes: --build=x86_64-redhat-linux --disable-libmpx --disable-libunwind-exceptions --enable-__cxa_atexit --enable-bootstrap --enable-cet --enable-checking=release --enable-gnu-indirect-function --enable-gnu-unique-object --enable-initfini-array --enable-languages=c,c++,fortran,lto --enable-multilib --enable-offload-targets=nvptx-none --enable-plugin --enable-shared --enable-threads=posix --mandir=/usr/share/man --with-arch_32=x86-64 --with-gcc-major-version-only --with-isl --with-linker-hash-style=gnu --with-tune=generic --without-cuda-driver
Processor Notes: Scaling Governor: acpi-cpufreq conservative (Boost: Enabled) - CPU Microcode: 0xa201016
Security Notes: itlb_multihit: Not affected + l1tf: Not affected + mds: Not affected + meltdown: Not affected + mmio_stale_data: Not affected + retbleed: 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 Retpolines IBPB: conditional IBRS_FW STIBP: always-on RSB filling PBRSB-eIBRS: Not affected + srbds: Not affected + tsx_async_abort: Not affected

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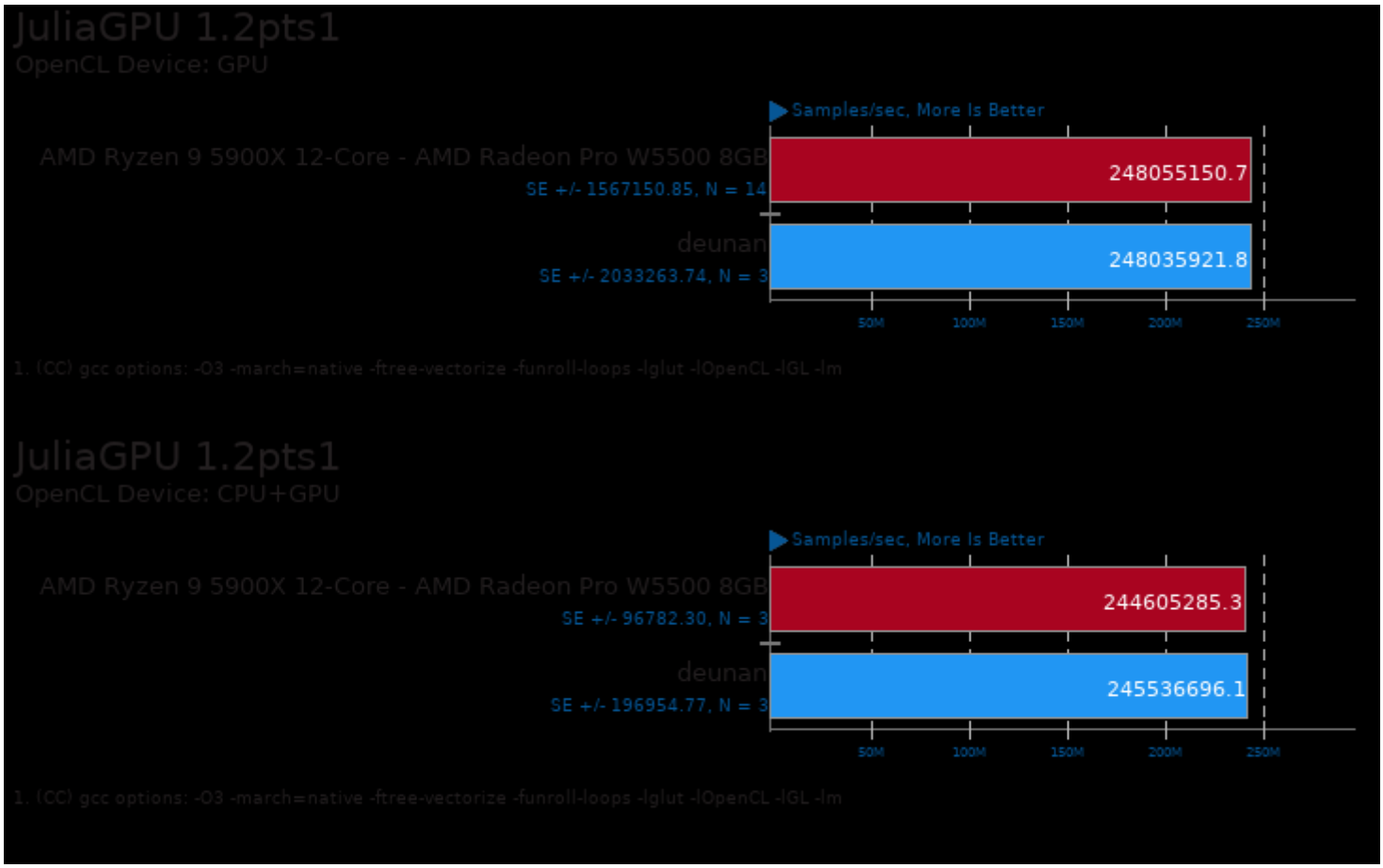
Processor: AMD Ryzen 9 5900X 12-Core @ 4.95GHz (12 Cores / 24 Threads), Motherboard: Gigabyte X570 AORUS MASTER (F36f BIOS), Chipset: AMD Starship/Matisse, Memory: 32GB, Disk: 2 x 1000GB Samsung SSD 980 PRO 1TB + 16001GB TOSHIBA MG08ACA1 + 500GB Seagate ST500LM000-1EJ16, Graphics: AMD Radeon Pro W5500 8GB (1900/875MHz), Audio: AMD Navi 10 HDMI Audio, Monitor: PHL 345B1C + PHL 275B1, Network: Intel I211 + Realtek RTL8125 2.5GbE + Intel Wi-Fi 6 AX200

OS: Red Hat Enterprise Linux 8.7, Kernel: 4.18.0-425.3.1.el8.x86_64 (x86_64), Desktop: GNOME Shell 3.32.2, Display Server: X Server 1.20.11 + Wayland, OpenGL: 4.6 Mesa 22.3.0-devel (LLVM 15.0.0 DRM 3.48), OpenCL: OpenCL 2.1 AMD-APP (3486.0), Vulkan: 1.3.211, Compiler: LLVM 14.0.6, File-System: ext4, Screen Resolution: 4880x2560

Kernel Notes: Transparent Huge Pages: always
Environment Notes: CFLAGS="-g -Wall -O3 -march=native -mtune=generic"
Compiler Notes: --build=x86_64-redhat-linux --disable-libmpx --disable-libunwind-exceptions --enable-__cxa_atexit --enable-bootstrap --enable-cet --enable-checking=release --enable-gnu-indirect-function --enable-gnu-unique-object --enable-initfini-array --enable-languages=c,c++,fortran,lto --enable-multilib --enable-offload-targets=nvptx-none --enable-plugin --enable-shared --enable-threads=posix --mandir=/usr/share/man --with-arch_32=x86-64 --with-gcc-major-version-only --with-isl --with-linker-hash-style=gnu --with-tune=generic --without-cuda-driver
Processor Notes: Scaling Governor: acpi-cpufreq conservative (Boost: Enabled) - CPU Microcode: 0xa201016
Security Notes: itlb_multihit: Not affected + l1tf: Not affected + mds: Not affected + meltdown: Not affected + mmio_stale_data: Not affected + retbleed: Not affected + spec_store_bypass: Mitigation of SSB disabled via prctl + spectre_v1: Mitigation of usercopy/swapgs barriers and __user pointer sanitization + spectre_v2: Mitigation of Retpolines IBPB: conditional IBRS_FW STIBP: always-on RSB filling PBRSB-eIBRS: Not affected + srbds: Not affected + tsx_async_abort: Not affected

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JuliaGPU - GPU (Samples/sec)	**248055151**	**248035922**
Normalized	100%	99.99%
Standard Deviation	2.4%	1.4%
JuliaGPU - CPU+GPU (Samples/sec)	**244605285**	**245536696**
Normalized	99.62%	100%
Standard Deviation	0.1%	0.1%

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This file was automatically generated via the Phoronix Test Suite benchmarking software on Thursday, 28 March 2024 08:12.