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jp6x003update

ARMv8 Cortex-A78E testing with a NVIDIA Jetson (202402.1-81336553-dirty BIOS) and NVIDIA Tegra Orin on Ubuntu 22.04 via the Phoronix Test Suite.

Test Systems:

cpu

memory

Processor: ARMv8 Cortex-A78E @ 2.20GHz (12 Cores), Motherboard: NVIDIA Jetson (202402.1-81336553-dirty BIOS), Memory: 62GB, Disk: 1024GB TS1TMTE720TI-SC1 + 0GB 2235 + 64GB G1M15M, Graphics: NVIDIA Tegra Orin, Monitor: BenQ EL2870U, Network: Intel I225-IT + Intel-AC 9260

OS: Ubuntu 22.04, Kernel: 5.15.136-tegra (aarch64), Desktop: GNOME Shell 42.9, Display Server: X Server 1.21.1.4, Display Driver: NVIDIA 540.3.0, OpenGL: 4.6.0, Vulkan: 1.3.251, Compiler: GCC 11.4.0 + CUDA 12.2, File-System: ext4, Screen Resolution: 3840x2160

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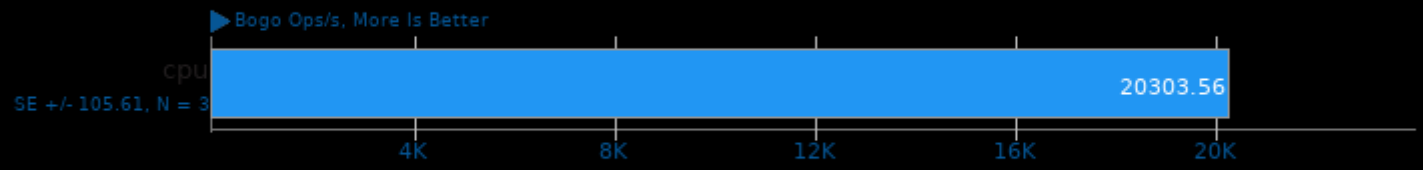
Kernel Notes: Transparent Huge Pages: always
Compiler Notes: --build=aarch64-linux-gnu --disable-libquadmath --disable-libquadmath-support --disable-werror --enable-bootstrap --enable-checking=release --enable-clocale=gnu --enable-default-pie --enable-fix-cortex-a53-843419 --enable-gnu-unique-object --enable-languages=c,ada,c++,go,d,fortran,objc,obj-c++,m2 --enable-libphobos-checking=release --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-link-serialization=2 --enable-multiarch --enable-nls --enable-objc-gc=auto --enable-plugin --enable-shared --enable-threads=posix --host=aarch64-linux-gnu --program-prefix=aarch64-linux-gnu- --target=aarch64-linux-gnu --with-build-config=bootstrap-lto-lean --with-default-libstdcxx-abi=new --with-gcc-major-version-only --with-target-system-zlib=auto -v
Processor Notes: Scaling Governor: tegra194 schedutil
Security Notes: gather_data_sampling: Not affected + itlb_multihit: Not affected + l1tf: Not affected + mds: Not affected + meltdown: Not affected + mmio_stale_data: Not affected + retbleed: Not affected + spec_rstack_overflow: Not affected + spec_store_bypass: Mitigation of SSB disabled via prctl + spectre_v1: Mitigation of __user pointer sanitization + spectre_v2: Mitigation of CSV2 but not BHB + srbds: Not affected + tsx_async_abort: Not affected

	cpu	memory
Stress-NG - Crypto (Bogo Ops/s)	20304	
Standard Deviation	0.9%	
Stress-NG - Forking (Bogo Ops/s)	7902	
Standard Deviation	1%	
Stress-NG - CPU Stress (Bogo Ops/s)	2348	
Standard Deviation	0.4%	
Stress-NG - Matrix Math (Bogo Ops/s)	44232	
Standard Deviation	0.7%	
Stress-NG - Vector Math (Bogo Ops/s)	28473	
Standard Deviation	0.2%	
Stress-NG - Memory Copying (Bogo Ops/s)	2551	
Standard Deviation	0.7%	
Stress-NG - G.C.S.F (Bogo Ops/s)	4333358	
Standard Deviation	0.5%	
Stress-NG - G.Q.D.S (Bogo Ops/s)	168.02	
Standard Deviation	0.1%	
Stream - Copy (MB/s)		73701
Standard Deviation		2%
Stream - Scale (MB/s)		73888
Standard Deviation		1.5%
Stream - Triad (MB/s)		64914
Standard Deviation		0.9%
Stream - Add (MB/s)		65746
Standard Deviation		2.1%

Stress-NG 0.17.08

Test: Crypto



1. (CXX) g++ options: -O2 -std=gnu99 -lc -lm

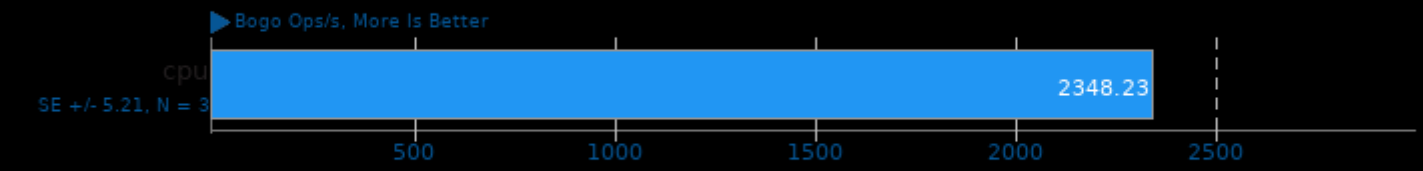
Stress-NG 0.17.08

Test: Forking

1. (CXX) g++ options: -O2 -std=gnu99 -lc -lm

Stress-NG 0.17.08

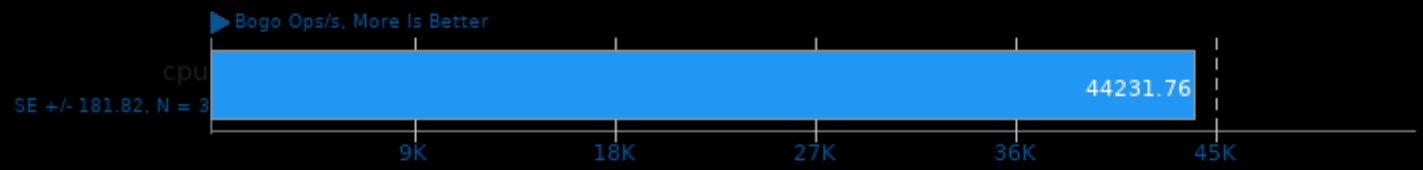
Test: CPU Stress



1. (CXX) g++ options: -O2 -std=gnu99 -lc -lm

Stress-NG 0.17.08

Test: Matrix Math



1. (CXX) g++ options: -O2 -std=gnu99 -lc -lm

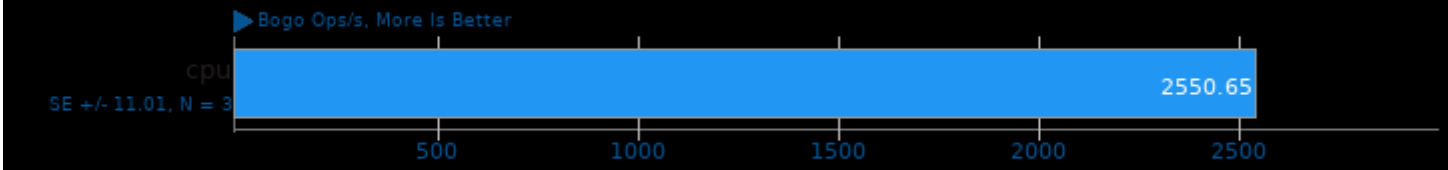
Stress-NG 0.17.08

Test: Vector Math

1. (CXX) g++ options: -O2 -std=gnu99 -lc -lm

Stress-NG 0.17.08

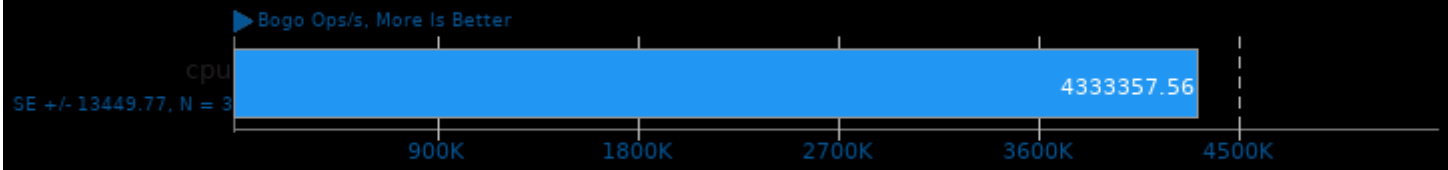
Test: Memory Copying



1. (CXX) g++ options: -O2 -std=gnu99 -lc -lm

Stress-NG 0.17.08

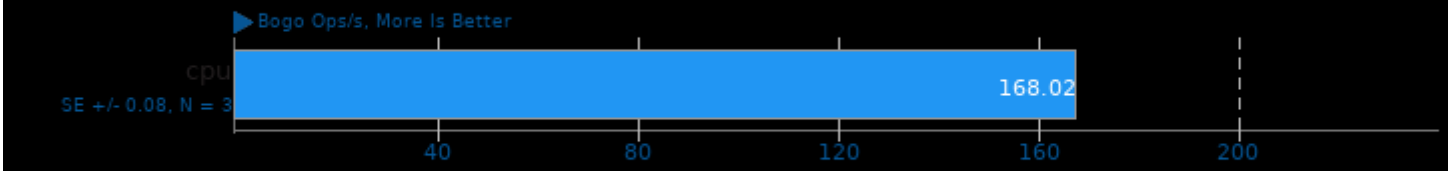
Test: Glibc C String Functions



1. (CXX) g++ options: -O2 -std=gnu99 -lc -lm

Stress-NG 0.17.08

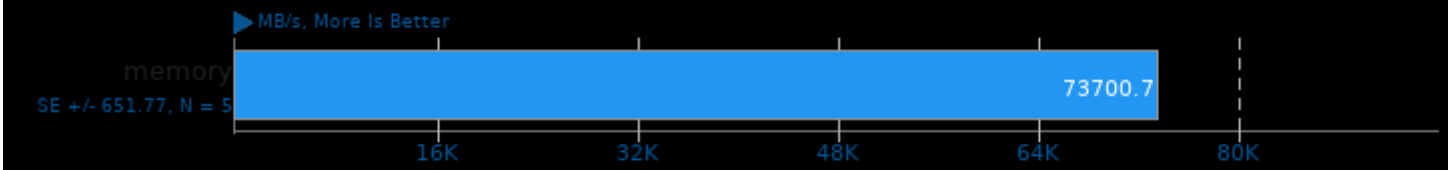
Test: Glibc Qsort Data Sorting



1. (CXX) g++ options: -O2 -std=gnu99 -lc -lm

Stream 2013-01-17

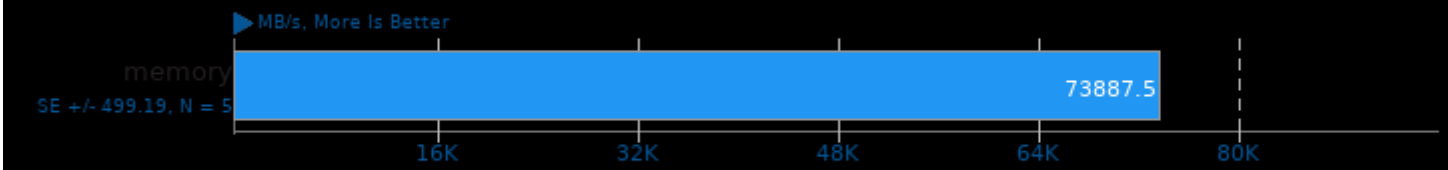
Type: Copy



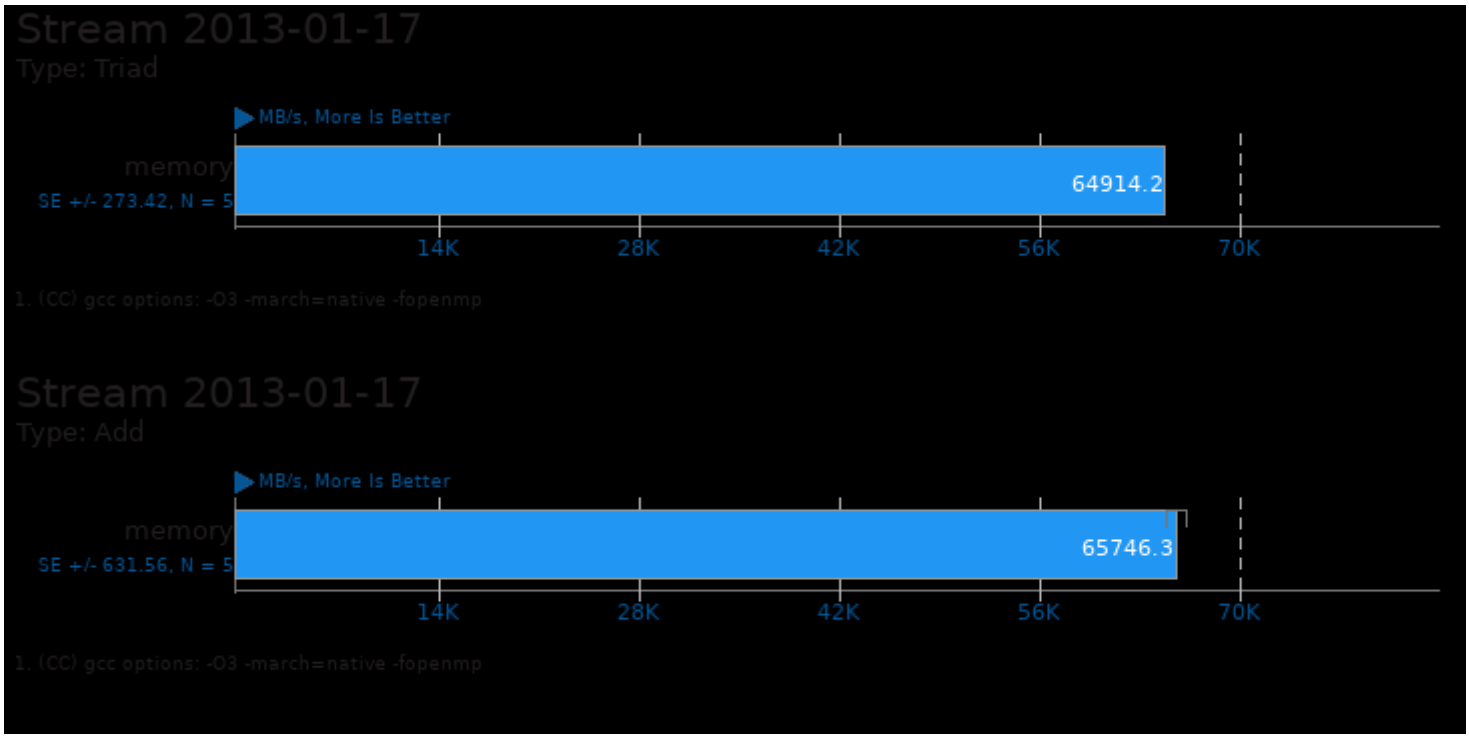
1. (CC) gcc options: -O3 -march=native -fopenmp

Stream 2013-01-17

Type: Scale



1. (CC) gcc options: -O3 -march=native -fopenmp



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