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pts-kernel-20210827-01

ARMv8 Cortex-A72 testing with a BCM2835 Raspberry Pi 400 Rev 1.0 and V3D 4.2 4GB on Ubuntu 21.04 via the Phoronix Test Suite.

Test Systems:

pts-kernel-20210827-01

Processor: ARMv8 Cortex-A72 @ 1.80GHz (4 Cores), Motherboard: BCM2835 Raspberry Pi 400 Rev 1.0, Chipset: Broadcom BCM2711, Memory: 4096MB, Disk: 32GB SP32G, Graphics: V3D 4.2 4GB, Monitor: ASUS PA238

OS: Ubuntu 21.04, Kernel: 5.11.0-1016-raspi (aarch64), Desktop: Xfce 4.16, Display Server: X Server 1.20.11, OpenGL: 2.1 Mesa 21.0.3, Vulkan: 1.0.155, Compiler: GCC 10.3.0, File-System: ext4, Screen Resolution: 1920x1080

Kernel Notes: snd_bcm2835.enable_compat_alsa=0 snd_bcm2835.enable_hdmi=1 - Transparent Huge Pages: madvise

Environment Notes: CXXFLAGS="-O3 -pipe -mcpu=cortex-a72" CFLAGS="-O3 -pipe -mcpu=cortex-a72"

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-mutex --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: cpufreq-dt performance

Disk Mount Options Notes: noatime,rw

Disk Details Notes: Block Size: 4096

Security Notes: itlb_multihit: Not affected + l1tf: Not affected + mds: Not affected + meltdown: Not affected + spec_store_bypass: Vulnerable + spectre_v1: Mitigation of __user pointer sanitization + spectre_v2: Vulnerable + srbs: Not affected + tsx_async_abort: Not affected

pts-kernel-20210827-01

LevelDB - Hot Read (us/Op)	2.219
Standard Deviation	1.1%
LevelDB - Fill Sync (MB/s)	0.1
Standard Deviation	0%
LevelDB - Fill Sync (us/Op)	6336
Standard Deviation	1.1%
LevelDB - Overwrite (MB/s)	6.5
Standard Deviation	1.5%
LevelDB - Overwrite (us/Op)	68.113
Standard Deviation	1.7%
LevelDB - Rand Fill (MB/s)	6.5
Standard Deviation	0%
LevelDB - Rand Fill (us/Op)	67.909
Standard Deviation	0.2%
LevelDB - Rand Read (us/Op)	2.246
Standard Deviation	0.3%
LevelDB - Seek Rand (us/Op)	4.418
Standard Deviation	3.8%
LevelDB - Rand Delete (us/Op)	62.863
Standard Deviation	0.9%
LevelDB - Seq Fill (MB/s)	7.1
Standard Deviation	0%
LevelDB - Seq Fill (us/Op)	61.921
Standard Deviation	0.1%
Tinymembench - Standard Memcpy (MB/s)	2520
Standard Deviation	0.3%
Tinymembench - Standard Memset (MB/s)	2963
Standard Deviation	0.3%
t-test1 - 1 (sec)	122.955
Standard Deviation	0.1%
t-test1 - 2 (sec)	42.499
Standard Deviation	0.2%
Ethr - TCP - Latency - 1 (us)	91.64
Standard Deviation	0%
Ethr - TCP - Latency - 8 (us)	91.55
Standard Deviation	0.1%
Ethr - TCP - Latency - 32 (us)	91.92
Standard Deviation	0.1%
Ethr - TCP - Latency - 64 (us)	91.56
Standard Deviation	0.2%
Ethr - TCP - Bandwidth - 8 (Mbits/s)	7161
Standard Deviation	0.5%
Ethr - UDP - Bandwidth - 8 (Mbits/s)	15937
Standard Deviation	1.1%

Ethr - HTTP - Bandwidth - 1 (Mbits/s)	236.41
Standard Deviation	0.8%
Ethr - HTTP - Bandwidth - 8 (Mbits/s)	422.52
Standard Deviation	2.8%
Ethr - TCP - Bandwidth - 32 (Mbits/s)	7645
Standard Deviation	4.3%
Ethr - TCP - Bandwidth - 64 (Mbits/s)	7370
Standard Deviation	3%
Ethr - UDP - Bandwidth - 32 (Mbits/s)	17360
Standard Deviation	0.9%
Ethr - UDP - Bandwidth - 64 (Mbits/s)	17624
Standard Deviation	0.5%
Ethr - HTTP - Bandwidth - 32 (Mbits/s)	395.39
Standard Deviation	0.7%
Ethr - HTTP - Bandwidth - 64 (Mbits/s)	388.32
Standard Deviation	0.5%
Ethr - TCP - Connections/s - 1 (Connections/sec)	2357
Standard Deviation	1.1%
Ethr - TCP - Connections/s - 8 (Connections/sec)	7470
Standard Deviation	1.9%
Ethr - TCP - Connections/s - 32 (Connections/sec)	7573
Standard Deviation	1%
Ethr - TCP - Connections/s - 64 (Connections/sec)	7685
Standard Deviation	2.1%
iPerf - 5201 - 10 Seconds - UDP - 100Mbit Objective - 1 (Mbits/s)	100
iPerf - 5201 - 10 Seconds - UDP - 1000Mbit Objective - 1 (Mbits/s)	1000
iPerf - 5201 - 10 Seconds - UDP - 100Mbit Objective - 32 (Mbits/s)	3200
iPerf - 5201 - 10 Seconds - UDP - 100Mbit Objective - 64 (Mbits/s)	4135
Standard Deviation	1.6%
iPerf - 5201 - 10 Seconds - UDP - 1000Mbit Objective - 32 (Mbits/s)	5897
Standard Deviation	2.1%
iPerf - 5201 - 10 Seconds - UDP - 1000Mbit Objective - 64 (Mbits/s)	4164
Standard Deviation	1.1%
iPerf - 5201 - 10 Seconds - TCP - 1 (Mbits/s)	5851
Standard Deviation	1%
iPerf - 5201 - 10 Seconds - UDP - 1 (Mbits/s)	1.05
Standard Deviation	0%
iPerf - 5201 - 10 Seconds - TCP - 32 (Mbits/s)	5473
Standard Deviation	0.4%
iPerf - 5201 - 10 Seconds - TCP - 64 (Mbits/s)	5614
Standard Deviation	0.3%
iPerf - 5201 - 10 Seconds - UDP - 32 (Mbits/s)	33.6
Standard Deviation	0%
iPerf - 5201 - 10 Seconds - UDP - 64 (Mbits/s)	67.1
Standard Deviation	0%
perf-bench - Epoll Wait (ops/sec)	79446
Standard Deviation	0.4%
perf-bench - Futex Hash (ops/sec)	344991
Standard Deviation	0.3%
perf-bench - Memcpy 1MB (GB/sec)	2.529835
Standard Deviation	1.3%
perf-bench - Memset 1MB (GB/sec)	5.204523
Standard Deviation	6.1%

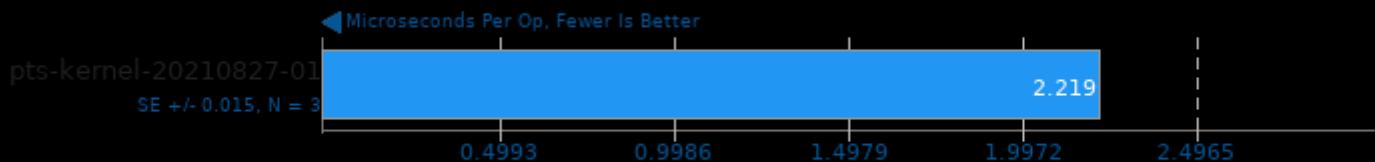
perf-bench - Sched Pipe (ops/sec)	31048
Standard Deviation	0.1%
perf-bench - Futex Lock-Pi (ops/sec)	3297
Standard Deviation	0.2%
perf-bench - Syscall Basic (ops/sec)	693890
Standard Deviation	0.4%
OSBench - Create Files (us/Event)	140.668752
Standard Deviation	2.6%
OSBench - Create Threads (us/Event)	108.889739
Standard Deviation	1.6%
OSBench - Launch Programs (us/Event)	991.090139
Standard Deviation	0.4%
OSBench - Create Processes (us/Event)	213.293234
Standard Deviation	1.5%
OSBench - Memory Allocations (Ns/Event)	389.298995
Standard Deviation	0.4%
IPC_benchmark - TCP Socket - 128 (Messages/sec)	204359
Standard Deviation	0.6%
IPC_benchmark - TCP Socket - 256 (Messages/sec)	199939
Standard Deviation	0.8%
IPC_benchmark - TCP Socket - 512 (Messages/sec)	195715
Standard Deviation	0.8%
IPC_benchmark - TCP Socket - 1024 (Messages/sec)	186627
Standard Deviation	0.4%
IPC_benchmark - TCP Socket - 2048 (Messages/sec)	167600
Standard Deviation	0.4%
IPC_benchmark - TCP Socket - 4096 (Messages/sec)	123006
Standard Deviation	6.2%
IPC_benchmark - Unnamed Pipe - 128 (Messages/sec)	309064
Standard Deviation	1.4%
IPC_benchmark - Unnamed Pipe - 256 (Messages/sec)	296640
Standard Deviation	1.9%
IPC_benchmark - Unnamed Pipe - 512 (Messages/sec)	285234
Standard Deviation	3.5%
IPC_benchmark - Unnamed Pipe - 1024 (Messages/sec)	269048
Standard Deviation	1.2%
IPC_benchmark - Unnamed Pipe - 2048 (Messages/sec)	240788
Standard Deviation	1%
IPC_benchmark - Unnamed Pipe - 4096 (Messages/sec)	195655
Standard Deviation	0.6%
IPC_benchmark - FIFO Named Pipe - 128 (Messages/sec)	283164
Standard Deviation	1%
IPC_benchmark - FIFO Named Pipe - 256 (Messages/sec)	279113
Standard Deviation	0.4%
IPC_benchmark - FIFO Named Pipe - 512 (Messages/sec)	273516
Standard Deviation	0.7%
IPC_benchmark - FIFO Named Pipe - 1024 (Messages/sec)	259009
Standard Deviation	0.8%
IPC_benchmark - FIFO Named Pipe - 2048 (Messages/sec)	232411
Standard Deviation	0.5%
IPC_benchmark - FIFO Named Pipe - 4096 (Messages/sec)	193613
Standard Deviation	0.4%
IPC_benchmark - U.U.D.S - 128 (Messages/sec)	141418

	Standard Deviation	0.2%
IPC_benchmark - U.U.D.S - 256 (Messages/sec)	139522	
	Standard Deviation	0.5%
IPC_benchmark - U.U.D.S - 512 (Messages/sec)	138530	
	Standard Deviation	0.4%
IPC_benchmark - U.U.D.S - 1024 (Messages/sec)	132176	
	Standard Deviation	0.4%
IPC_benchmark - U.U.D.S - 2048 (Messages/sec)	97102	
	Standard Deviation	0.7%
IPC_benchmark - U.U.D.S - 4096 (Messages/sec)	92130	
	Standard Deviation	0.5%
Hackbench - 1 - Thread (sec)	86.890	
	Standard Deviation	0.3%
Hackbench - 2 - Thread (sec)	174.376	
	Standard Deviation	0.3%
Hackbench - 4 - Thread (sec)	352.410	
	Standard Deviation	0.1%
Hackbench - 8 - Thread (sec)	730.375	
	Standard Deviation	3%
Hackbench - 1 - Process (sec)	86.069	
	Standard Deviation	0.1%
Hackbench - 16 - Thread (sec)	1398	
	Standard Deviation	2%
Hackbench - 2 - Process (sec)	172.696	
	Standard Deviation	0.3%
Hackbench - 4 - Process (sec)	349.964	
	Standard Deviation	0.1%
Hackbench - 8 - Process (sec)	721.101	
	Standard Deviation	2.9%
Hackbench - 16 - Process (sec)	1381	
	Standard Deviation	0.5%
Hackbench - 32 - Process (sec)	2696	
	Standard Deviation	0.2%
OpenSSL - R.4.b.P (Signs/sec)	115.3	
	Standard Deviation	0.1%
SQLite Speedtest - Timed Time - Size 1,000 (sec)	510.235	
	Standard Deviation	0.4%
Stress-NG - MMAP (Bogo Ops/s)	0.85	
	Standard Deviation	46.4%
Stress-NG - NUMA (Bogo Ops/s)	38	
Stress-NG - MEMFD (Bogo Ops/s)	13.47	
	Standard Deviation	0.2%
Stress-NG - Atomic (Bogo Ops/s)	120342	
	Standard Deviation	0%
Stress-NG - Crypto (Bogo Ops/s)	380.61	
	Standard Deviation	0.9%
Stress-NG - Malloc (Bogo Ops/s)	2759874	
	Standard Deviation	1.3%
Stress-NG - Forking (Bogo Ops/s)	2805	
	Standard Deviation	0.6%
Stress-NG - SENDFILE (Bogo Ops/s)	17166	
	Standard Deviation	0.2%
Stress-NG - CPU Cache (Bogo Ops/s)	10.21	

	Standard Deviation	0.8%
Stress-NG - CPU Stress (Bogo Ops/s)	188.60	
	Standard Deviation	2.6%
Stress-NG - Semaphores (Bogo Ops/s)	231951	
	Standard Deviation	0%
Stress-NG - Matrix Math (Bogo Ops/s)	1353	
	Standard Deviation	1.9%
Stress-NG - Vector Math (Bogo Ops/s)	10474	
	Standard Deviation	0.2%
Stress-NG - Memory Copying (Bogo Ops/s)	103.88	
	Standard Deviation	0.6%
Stress-NG - Socket Activity (Bogo Ops/s)	394.56	
	Standard Deviation	0.3%
Stress-NG - Context Switching (Bogo Ops/s)	159234	
	Standard Deviation	0.5%
Stress-NG - G.C.S.F (Bogo Ops/s)	97177	
	Standard Deviation	0.8%
Stress-NG - G.Q.D.S (Bogo Ops/s)	15.04	
	Standard Deviation	0.7%
Stress-NG - S.V.M.P (Bogo Ops/s)	193643	
	Standard Deviation	19%
Apache HTTP Server - 1 (Req/sec)	1722	
	Standard Deviation	1.5%
Apache HTTP Server - 20 (Req/sec)	2771	
	Standard Deviation	0%
Apache HTTP Server - 100 (Req/sec)	2830	
	Standard Deviation	0.1%
Apache HTTP Server - 200 (Req/sec)	2860	
	Standard Deviation	0.2%
Apache HTTP Server - 500 (Req/sec)	2717	
	Standard Deviation	0.3%
Apache HTTP Server - 1000 (Req/sec)	2570	
	Standard Deviation	0.8%

LevelDB 1.22

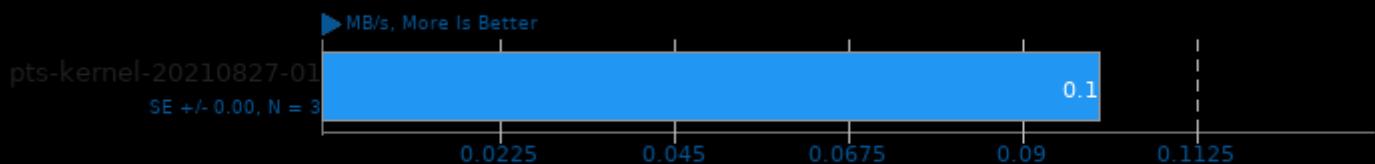
Benchmark: Hot Read



1. (CXX) g++ options: -O3 -pipe -mcpu=cortex-a72 -lsnappy -lpthread

LevelDB 1.22

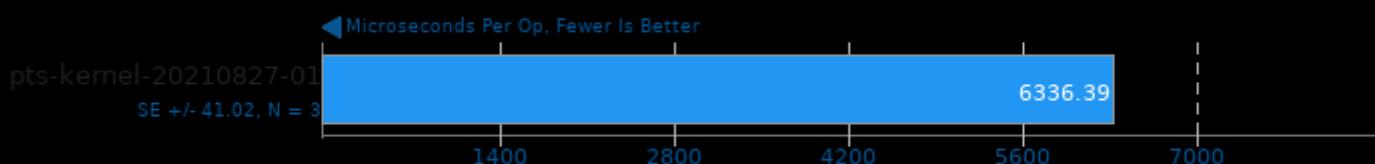
Benchmark: Fill Sync



1. (CXX) g++ options: -O3 -pipe -mcpu=cortex-a72 -lsnappy -lpthread

LevelDB 1.22

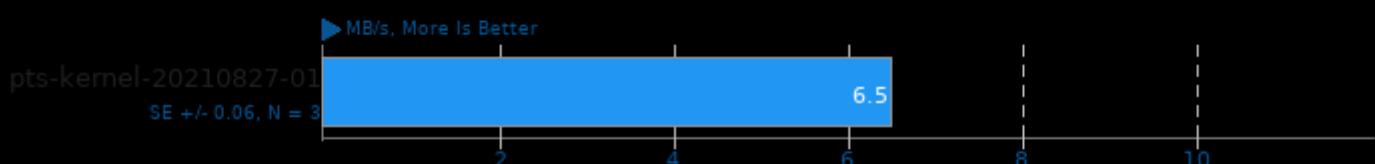
Benchmark: Fill Sync



1. (CXX) g++ options: -O3 -pipe -mcpu=cortex-a72 -lsnappy -lpthread

LevelDB 1.22

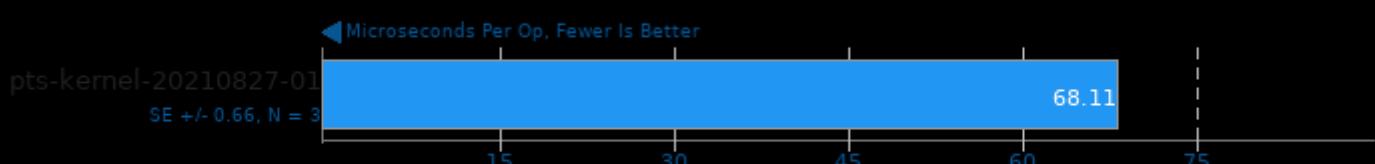
Benchmark: Overwrite



1. (CXX) g++ options: -O3 -pipe -mcpu=cortex-a72 -lsnappy -lpthread

LevelDB 1.22

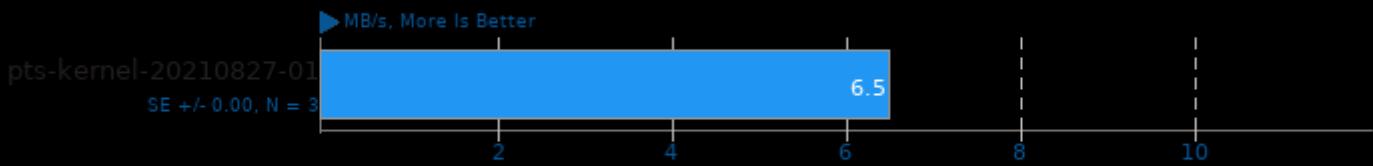
Benchmark: Overwrite



1. (CXX) g++ options: -O3 -pipe -mcpu=cortex-a72 -lsnappy -lpthread

LevelDB 1.22

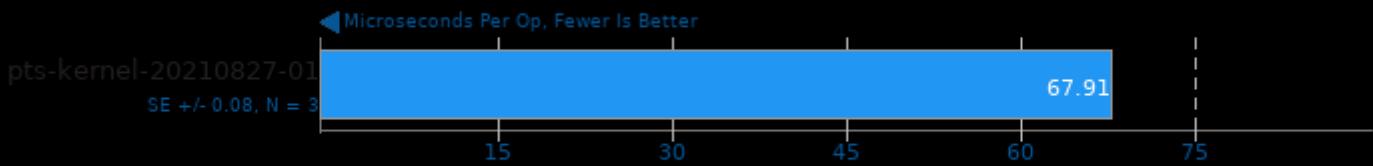
Benchmark: Random Fill



1. (CXX) g++ options: -O3 -pipe -mcpu=cortex-a72 -lsnappy -lpthread

LevelDB 1.22

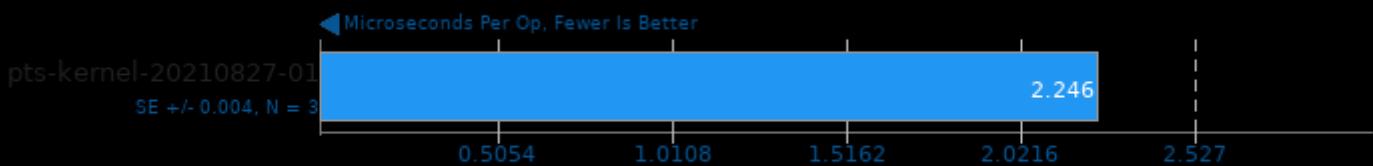
Benchmark: Random Fill



1. (CXX) g++ options: -O3 -pipe -mcpu=cortex-a72 -lsnappy -lpthread

LevelDB 1.22

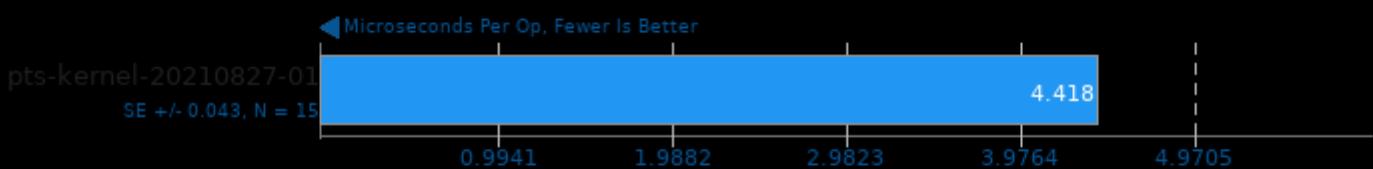
Benchmark: Random Read



1. (CXX) g++ options: -O3 -pipe -mcpu=cortex-a72 -lsnappy -lpthread

LevelDB 1.22

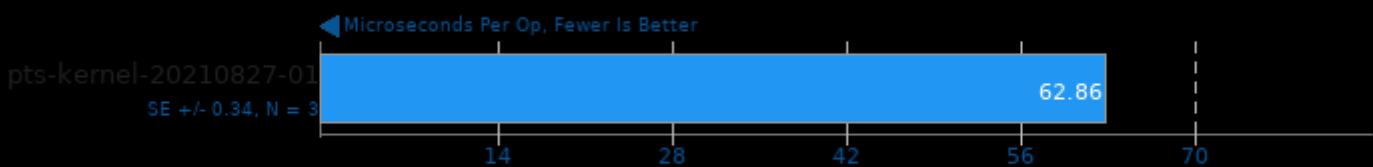
Benchmark: Seek Random



1. (CXX) g++ options: -O3 -pipe -mcpu=cortex-a72 -lsnappy -lpthread

LevelDB 1.22

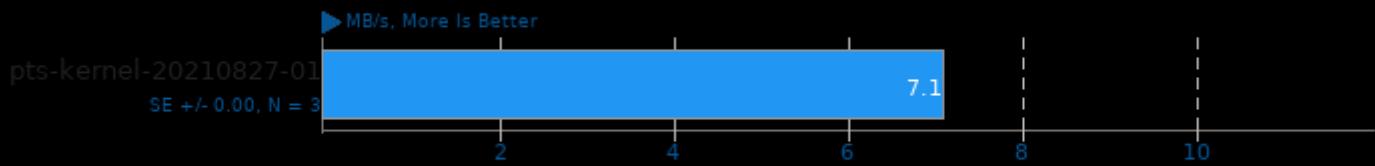
Benchmark: Random Delete



1. (CXX) g++ options: -O3 -pipe -mcpu=cortex-a72 -lsnappy -lpthread

LevelDB 1.22

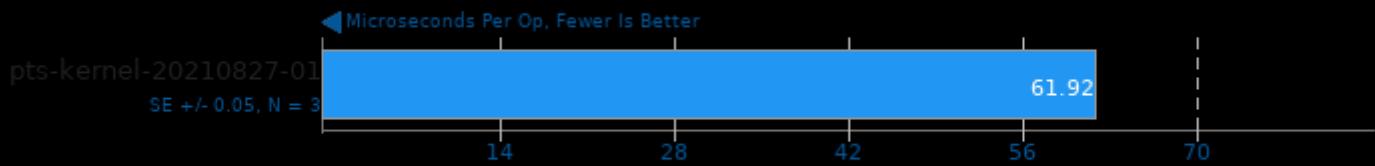
Benchmark: Sequential Fill



1. (CXX) g++ options: -O3 -pipe -mcpu=cortex-a72 -lsnappy -lpthread

LevelDB 1.22

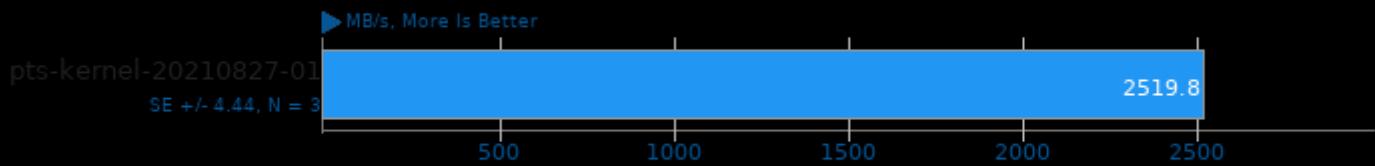
Benchmark: Sequential Fill



1. (CXX) g++ options: -O3 -pipe -mcpu=cortex-a72 -lsnappy -lpthread

Tinymembench 2018-05-28

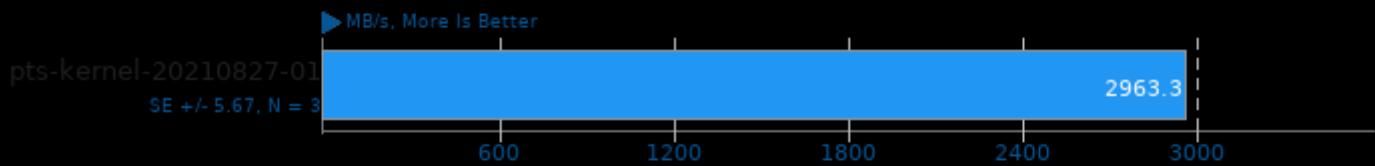
Standard Memcpy



1. (CC) gcc options: -O2 -O3 -pipe -mcpu=cortex-a72 -lm

Tinymembench 2018-05-28

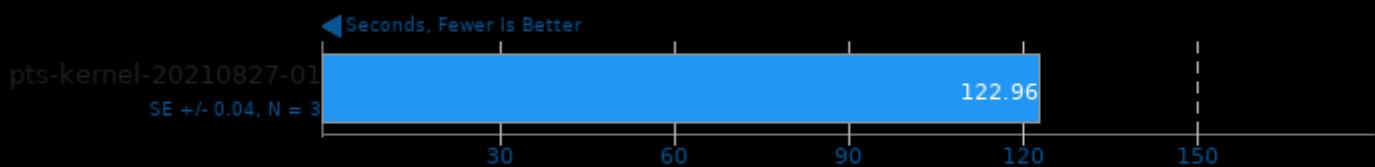
Standard Memset



1. (CC) gcc options: -O2 -O3 -pipe -mcpu=cortex-a72 -lm

t-test1 2017-01-13

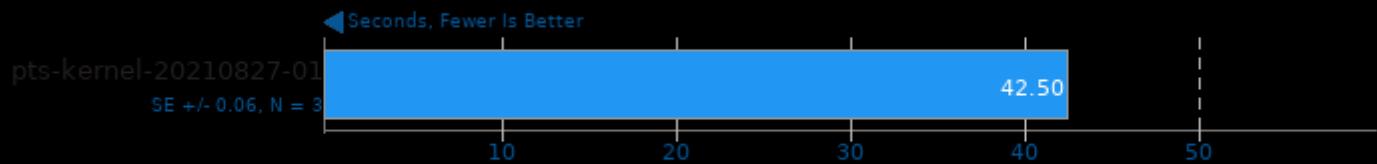
Threads: 1



1. (CC) gcc options: -pthread -O3 -pipe -mcpu=cortex-a72

t-test1 2017-01-13

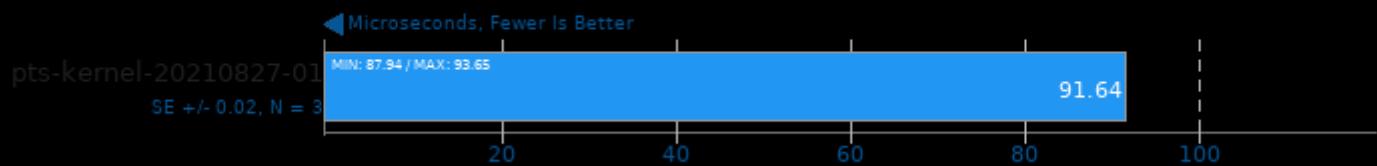
Threads: 2



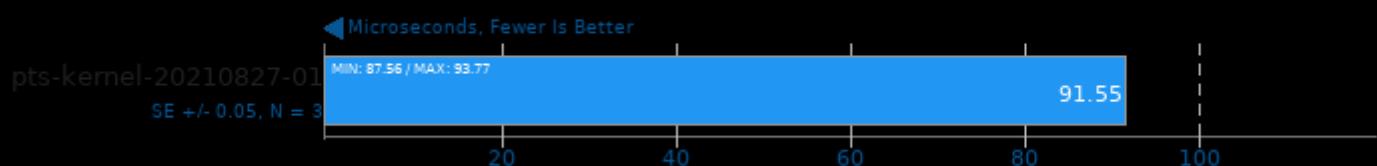
1. (CC) gcc options: -pthread -O3 -pipe -mcpu=cortex-a72

Ethr 2019-01-02

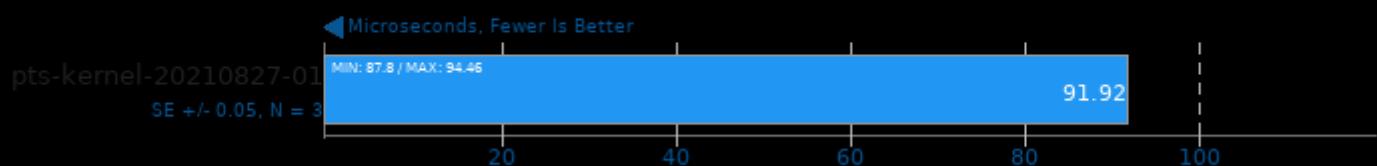
Server Address: localhost - Protocol: TCP - Test: Latency - Threads: 1

**Ethr 2019-01-02**

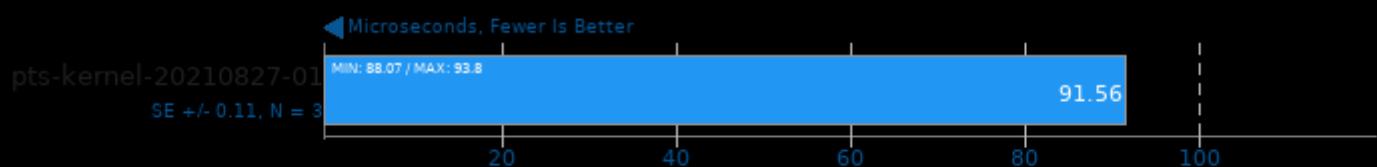
Server Address: localhost - Protocol: TCP - Test: Latency - Threads: 8

**Ethr 2019-01-02**

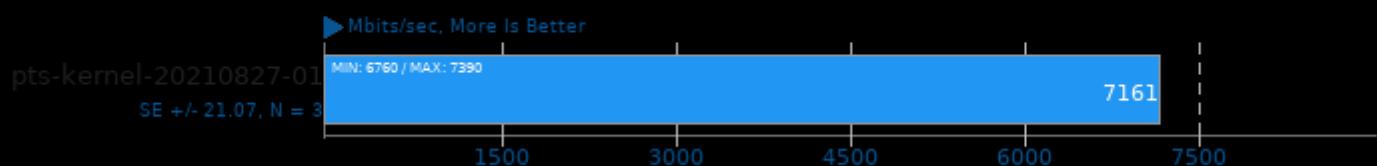
Server Address: localhost - Protocol: TCP - Test: Latency - Threads: 32

**Ethr 2019-01-02**

Server Address: localhost - Protocol: TCP - Test: Latency - Threads: 64

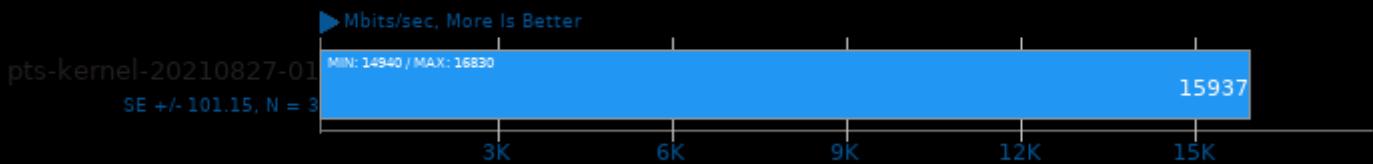
**Ethr 2019-01-02**

Server Address: localhost - Protocol: TCP - Test: Bandwidth - Threads: 8

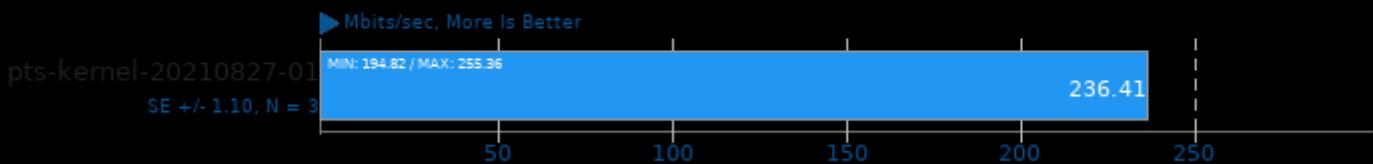


Ethr 2019-01-02

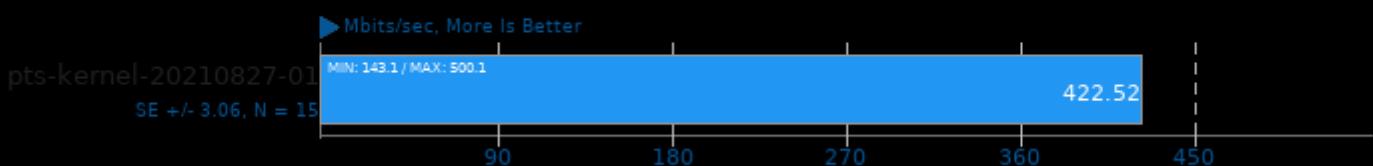
Server Address: localhost - Protocol: UDP - Test: Bandwidth - Threads: 8

**Ethr 2019-01-02**

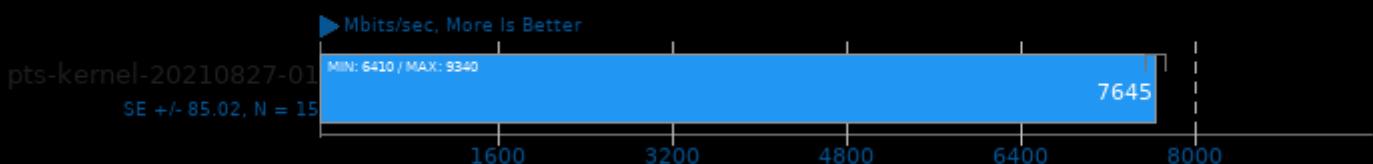
Server Address: localhost - Protocol: HTTP - Test: Bandwidth - Threads: 1

**Ethr 2019-01-02**

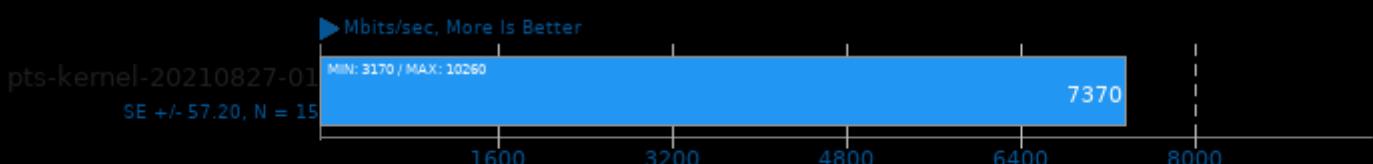
Server Address: localhost - Protocol: HTTP - Test: Bandwidth - Threads: 8

**Ethr 2019-01-02**

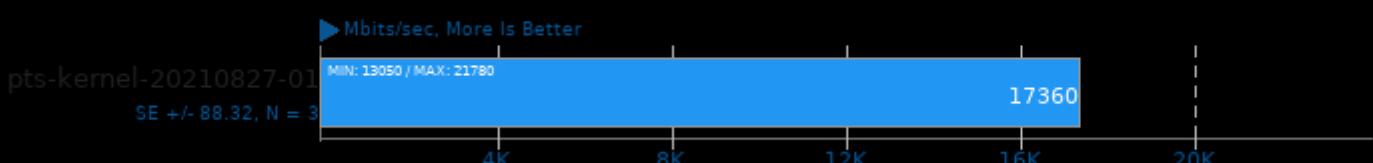
Server Address: localhost - Protocol: TCP - Test: Bandwidth - Threads: 32

**Ethr 2019-01-02**

Server Address: localhost - Protocol: TCP - Test: Bandwidth - Threads: 64

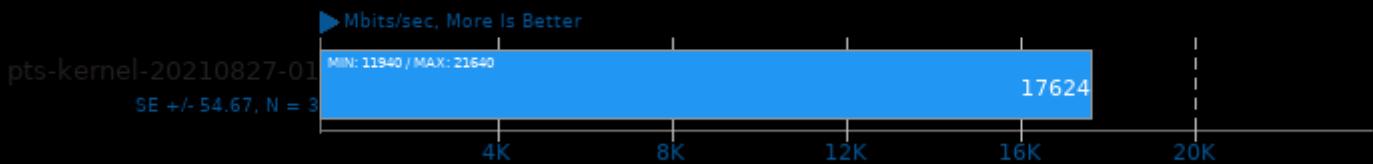
**Ethr 2019-01-02**

Server Address: localhost - Protocol: UDP - Test: Bandwidth - Threads: 32

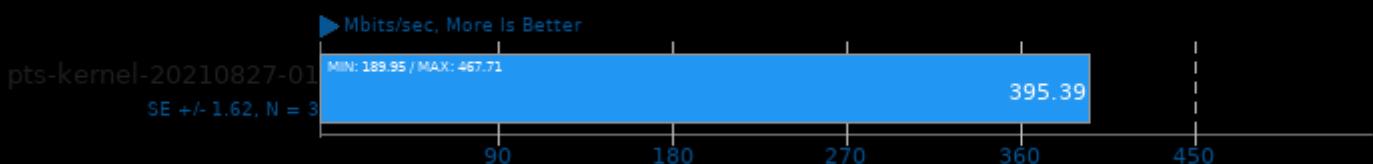


Ethr 2019-01-02

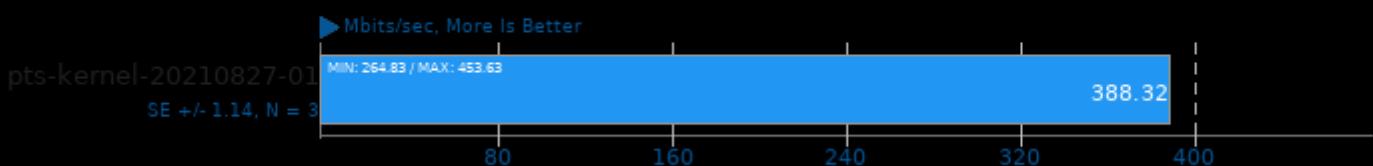
Server Address: localhost - Protocol: UDP - Test: Bandwidth - Threads: 64

**Ethr 2019-01-02**

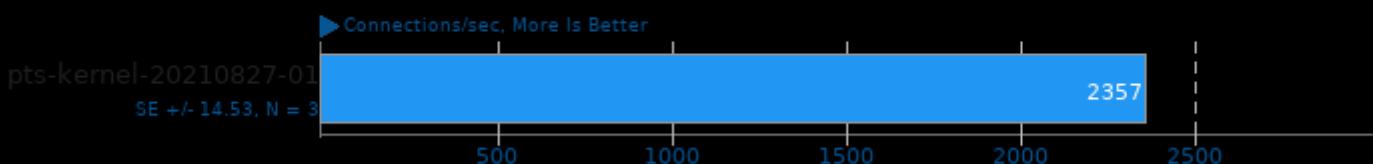
Server Address: localhost - Protocol: HTTP - Test: Bandwidth - Threads: 32

**Ethr 2019-01-02**

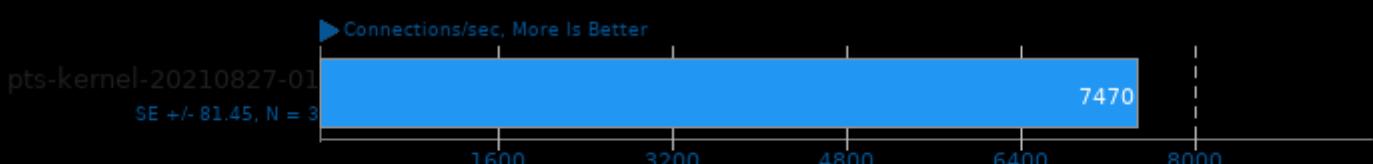
Server Address: localhost - Protocol: HTTP - Test: Bandwidth - Threads: 64

**Ethr 2019-01-02**

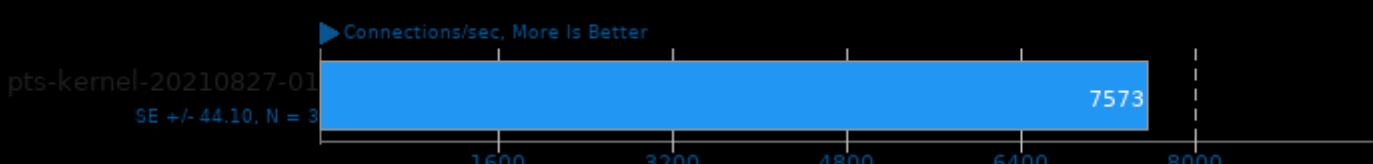
Server Address: localhost - Protocol: TCP - Test: Connections/s - Threads: 1

**Ethr 2019-01-02**

Server Address: localhost - Protocol: TCP - Test: Connections/s - Threads: 8

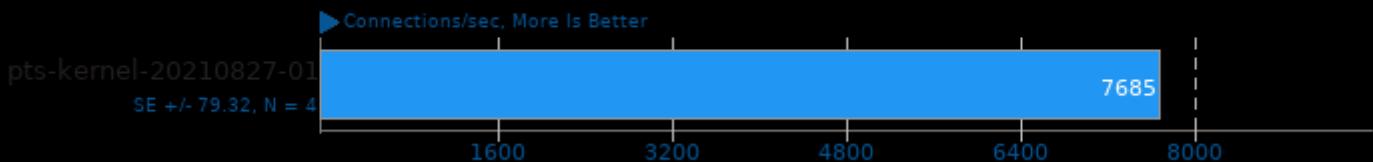
**Ethr 2019-01-02**

Server Address: localhost - Protocol: TCP - Test: Connections/s - Threads: 32



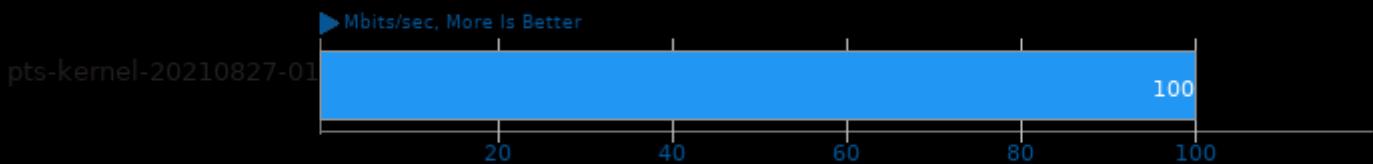
Ethr 2019-01-02

Server Address: localhost - Protocol: TCP - Test: Connections/s - Threads: 64



iPerf 3.7

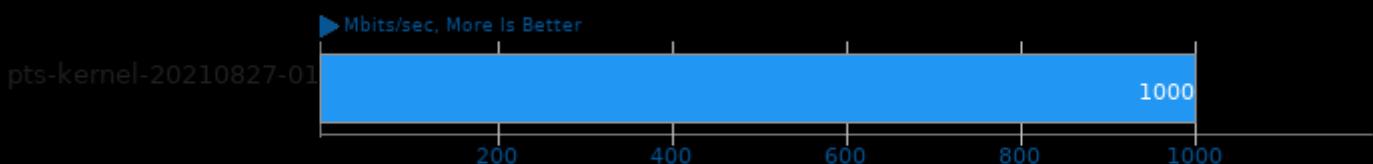
Server Address: localhost - Server Port: 5201 - Duration: 10 Seconds - Test: UDP - 100Mbit Objective - Parallel: 1



1. (CC) gcc options: -O3 -pipe -mcpu=cortex-a72 -march=native -lssl -lcrypto -lm

iPerf 3.7

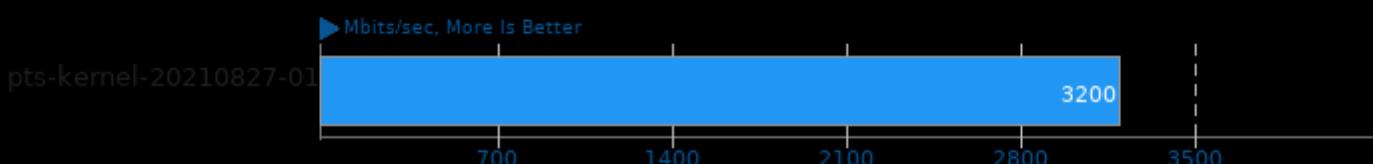
Server Address: localhost - Server Port: 5201 - Duration: 10 Seconds - Test: UDP - 1000Mbit Objective - Parallel: 1



1. (CC) gcc options: -O3 -pipe -mcpu=cortex-a72 -march=native -lssl -lcrypto -lm

iPerf 3.7

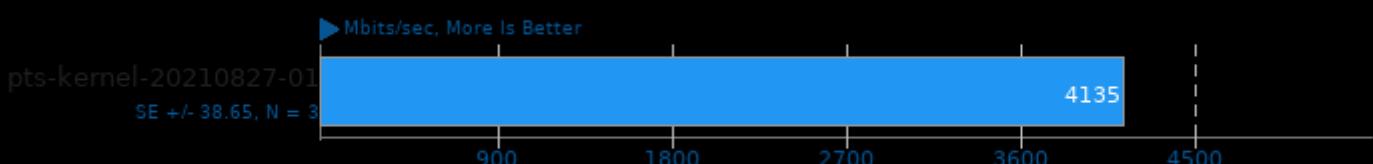
Server Address: localhost - Server Port: 5201 - Duration: 10 Seconds - Test: UDP - 100Mbit Objective - Parallel: 32



1. (CC) gcc options: -O3 -pipe -mcpu=cortex-a72 -march=native -lssl -lcrypto -lm

iPerf 3.7

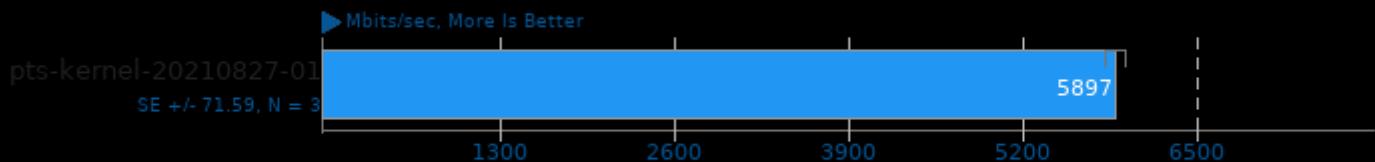
Server Address: localhost - Server Port: 5201 - Duration: 10 Seconds - Test: UDP - 100Mbit Objective - Parallel: 64



1. (CC) gcc options: -O3 -pipe -mcpu=cortex-a72 -march=native -lssl -lcrypto -lm

iPerf 3.7

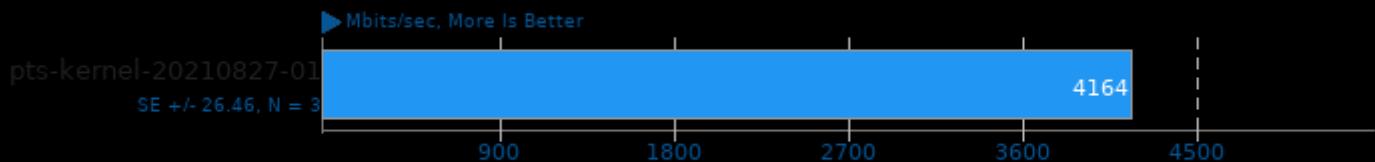
Server Address: localhost - Server Port: 5201 - Duration: 10 Seconds - Test: UDP - 1000Mbit Objective - Parallel: 32



1. (CC) gcc options: -O3 -pipe -mcpu=cortex-a72 -march=native -lssl -lcrypto -lm

iPerf 3.7

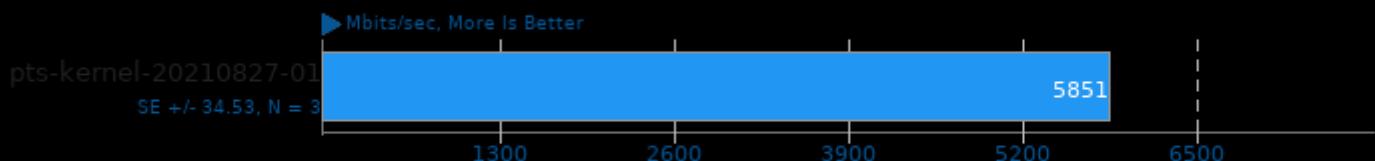
Server Address: localhost - Server Port: 5201 - Duration: 10 Seconds - Test: UDP - 1000Mbit Objective - Parallel: 64



1. (CC) gcc options: -O3 -pipe -mcpu=cortex-a72 -march=native -lssl -lcrypto -lm

iPerf 3.7

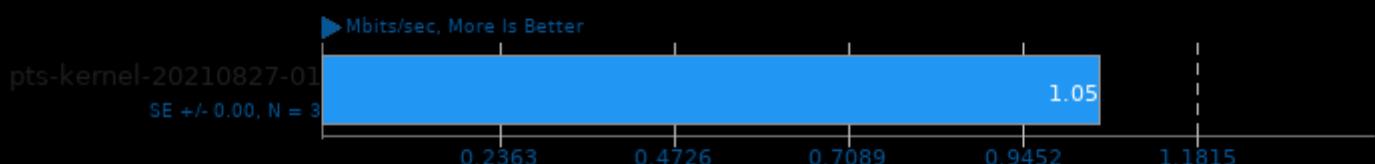
Server Address: localhost - Server Port: 5201 - Duration: 10 Seconds - Test: TCP - Parallel: 1



1. (CC) gcc options: -O3 -pipe -mcpu=cortex-a72 -march=native -lssl -lcrypto -lm

iPerf 3.7

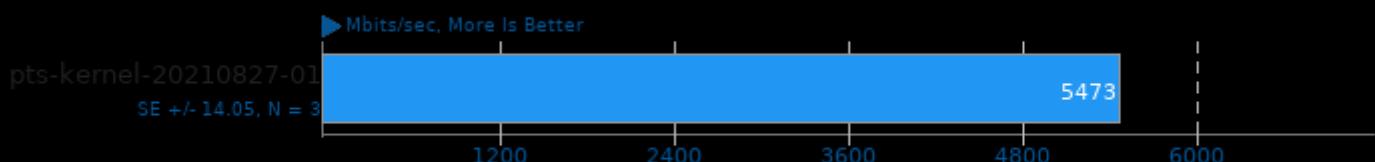
Server Address: localhost - Server Port: 5201 - Duration: 10 Seconds - Test: UDP - Parallel: 1



1. (CC) gcc options: -O3 -pipe -mcpu=cortex-a72 -march=native -lssl -lcrypto -lm

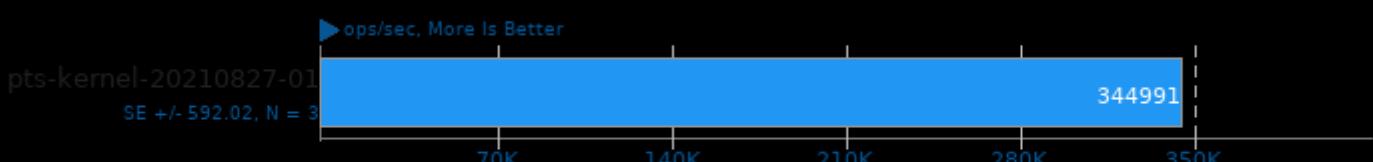
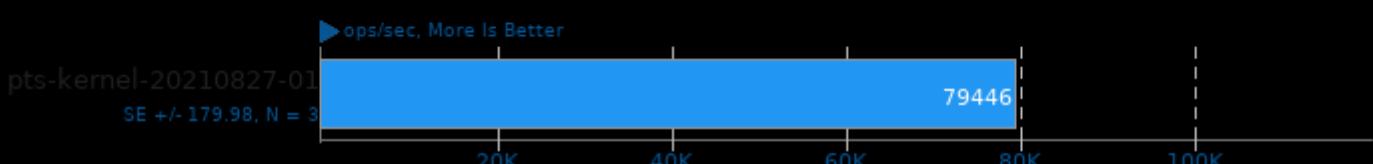
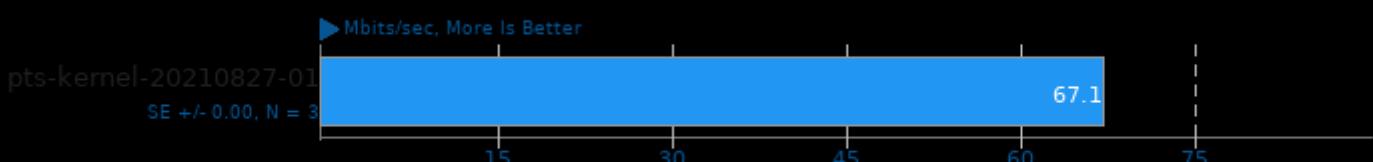
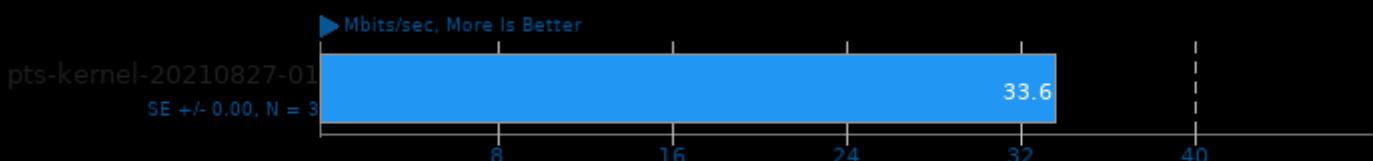
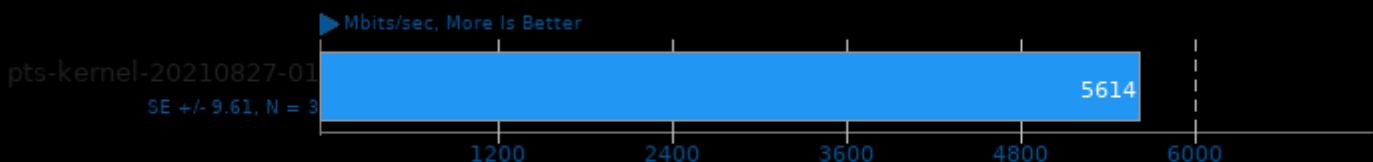
iPerf 3.7

Server Address: localhost - Server Port: 5201 - Duration: 10 Seconds - Test: TCP - Parallel: 32



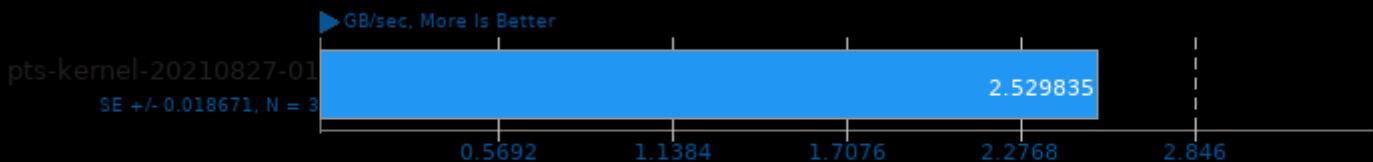
1. (CC) gcc options: -O3 -pipe -mcpu=cortex-a72 -march=native -lssl -lcrypto -lm

iPerf 3.7



perf-bench

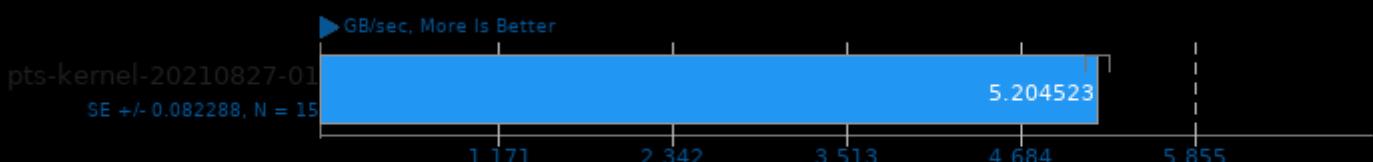
Benchmark: Memcpy 1MB



1. (CC) gcc options: -O6 -ggdb3 -funwind-tables -std=gnu99 -lunwind -aarch64 -lunwind -Xlinker -lpthread -lrt -lm -ldl -lelf -ldw -lcrypto -lz -llzma

perf-bench

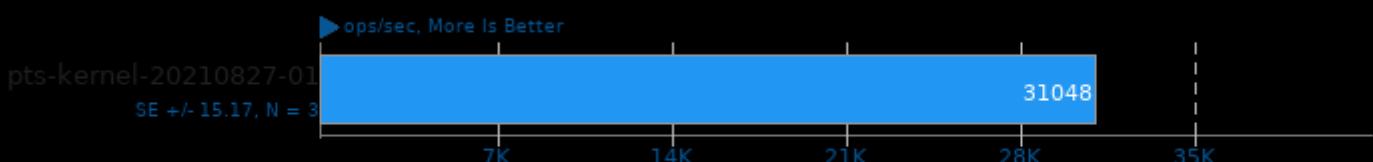
Benchmark: Memset 1MB



1. (CC) gcc options: -O6 -ggdb3 -funwind-tables -std=gnu99 -lunwind -aarch64 -lunwind -Xlinker -lpthread -lrt -lm -ldl -lelf -ldw -lcrypto -lz -llzma

perf-bench

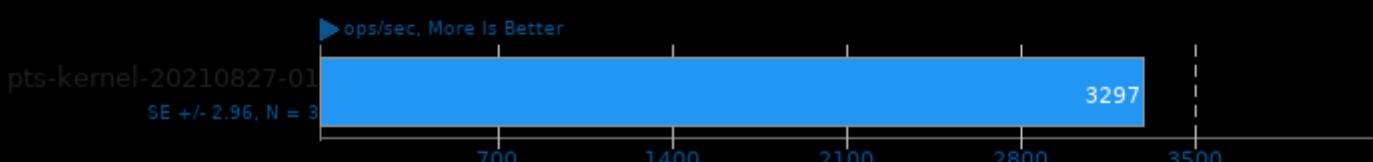
Benchmark: Sched Pipe



1. (CC) gcc options: -O6 -ggdb3 -funwind-tables -std=gnu99 -lunwind -aarch64 -lunwind -Xlinker -lpthread -lrt -lm -ldl -lelf -ldw -lcrypto -lz -llzma

perf-bench

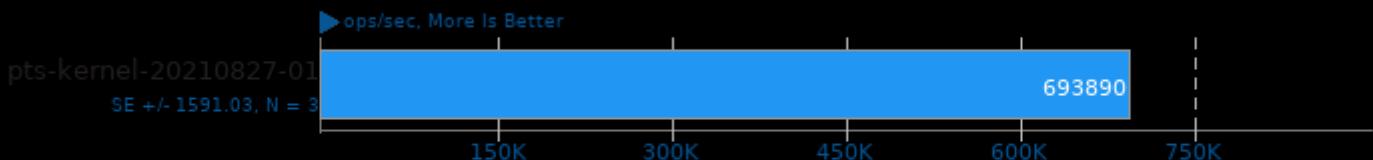
Benchmark: Futex Lock-Pi



1. (CC) gcc options: -O6 -ggdb3 -funwind-tables -std=gnu99 -lunwind -aarch64 -lunwind -Xlinker -lpthread -lrt -lm -ldl -lelf -ldw -lcrypto -lz -llzma

perf-bench

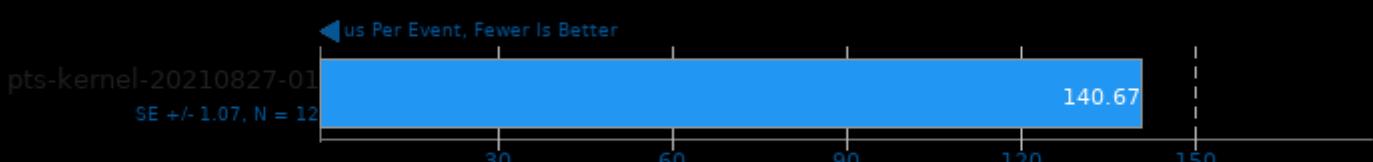
Benchmark: Syscall Basic



1. (CC) gcc options: -O6 -ggdb3 -funwind-tables -std=gnu99 -fno-unwind-tables -fno-linker -fno-threadsafe-statics -fno-rtti -fno-math -fno-exceptions -fno-ldw -fno-crypto -fno-lzma

OSBench

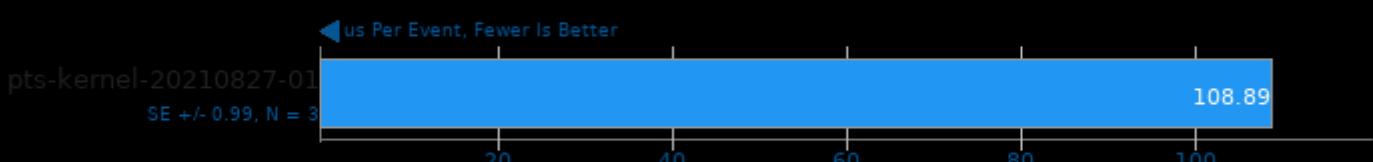
Test: Create Files



1. (CC) gcc options: -O3 -pipe -mcpu=cortex-a72 -fno-rtti -fno-exceptions -fno-ldw -fno-crypto -fno-lzma

OSBench

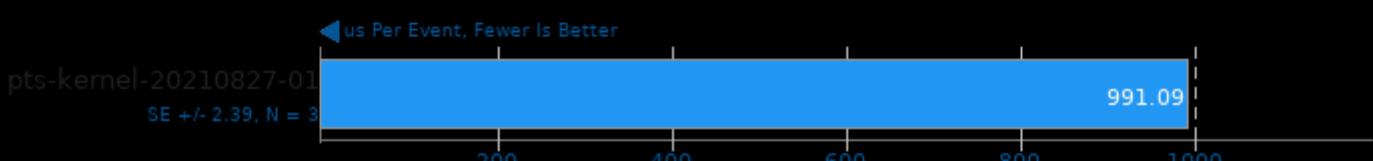
Test: Create Threads



1. (CC) gcc options: -O3 -pipe -mcpu=cortex-a72 -fno-rtti -fno-exceptions -fno-ldw -fno-crypto -fno-lzma

OSBench

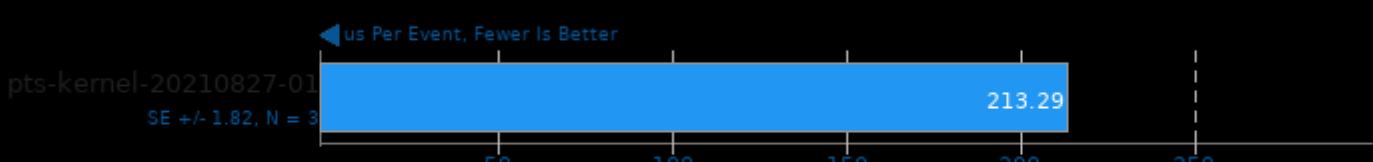
Test: Launch Programs



1. (CC) gcc options: -O3 -pipe -mcpu=cortex-a72 -fno-rtti -fno-exceptions -fno-ldw -fno-crypto -fno-lzma

OSBench

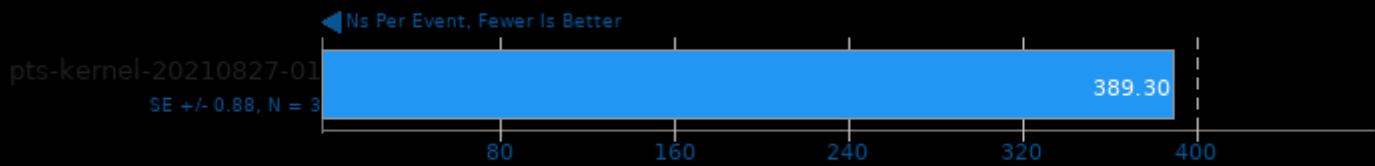
Test: Create Processes



1. (CC) gcc options: -O3 -pipe -mcpu=cortex-a72 -fno-rtti -fno-exceptions -fno-ldw -fno-crypto -fno-lzma

OSBench

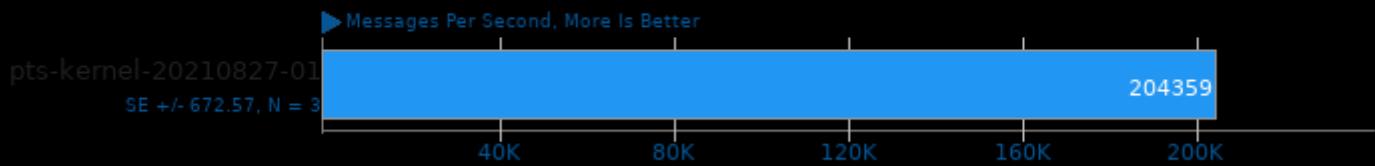
Test: Memory Allocations



1. (CC) gcc options: -O3 -pipe -mcpu=cortex-a72 -lm

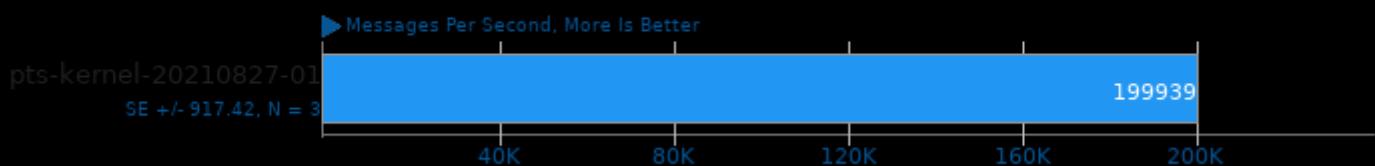
IPC_benchmark

Type: TCP Socket - Message Bytes: 128



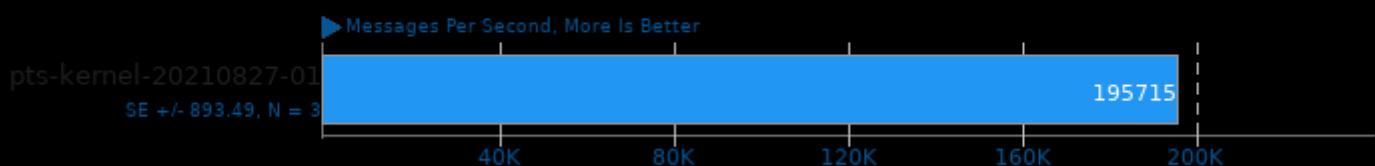
IPC_benchmark

Type: TCP Socket - Message Bytes: 256



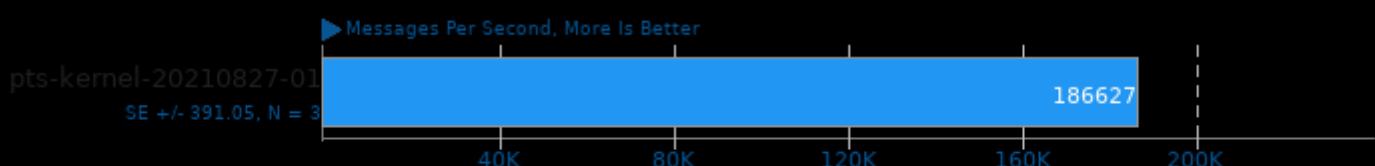
IPC_benchmark

Type: TCP Socket - Message Bytes: 512



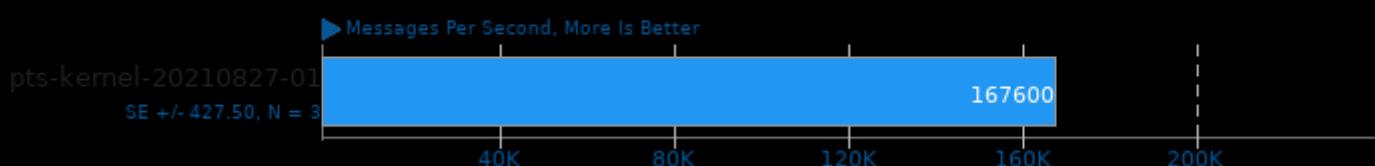
IPC_benchmark

Type: TCP Socket - Message Bytes: 1024



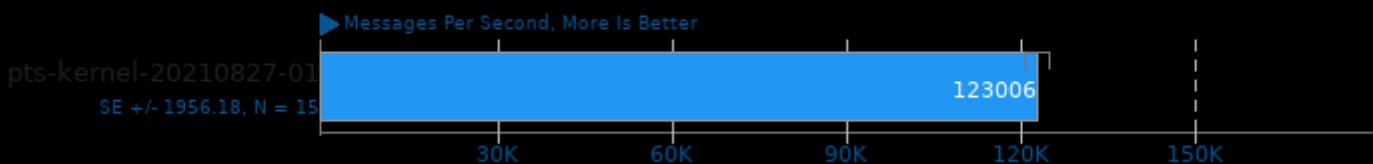
IPC_benchmark

Type: TCP Socket - Message Bytes: 2048

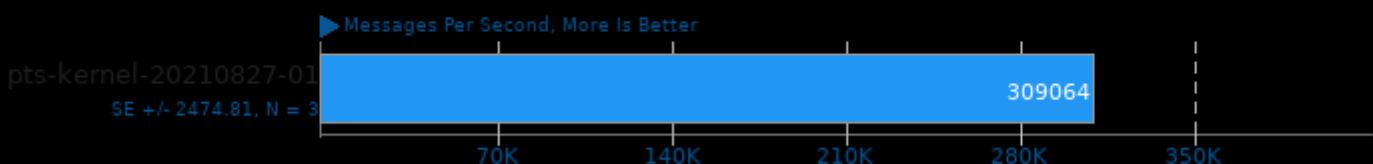


IPC_benchmark

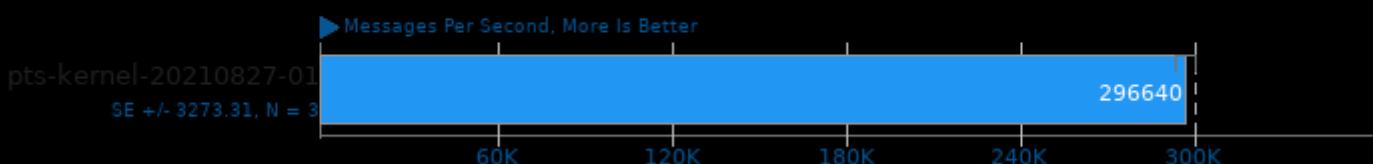
Type: TCP Socket - Message Bytes: 4096

**IPC_benchmark**

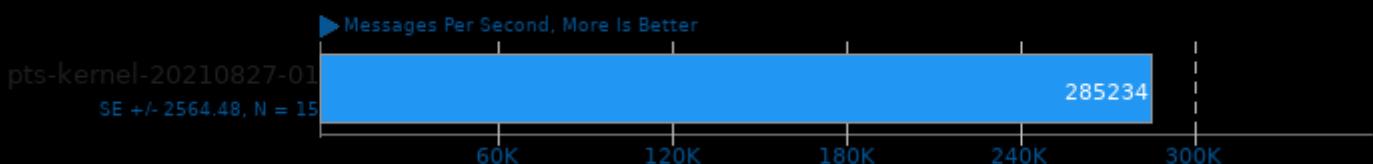
Type: Unnamed Pipe - Message Bytes: 128

**IPC_benchmark**

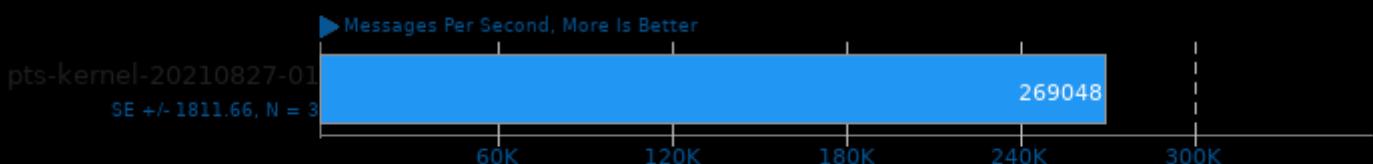
Type: Unnamed Pipe - Message Bytes: 256

**IPC_benchmark**

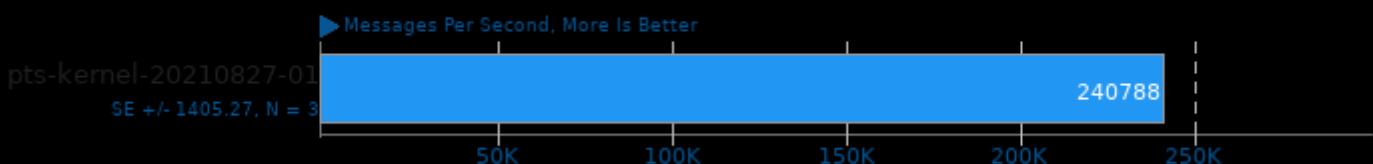
Type: Unnamed Pipe - Message Bytes: 512

**IPC_benchmark**

Type: Unnamed Pipe - Message Bytes: 1024

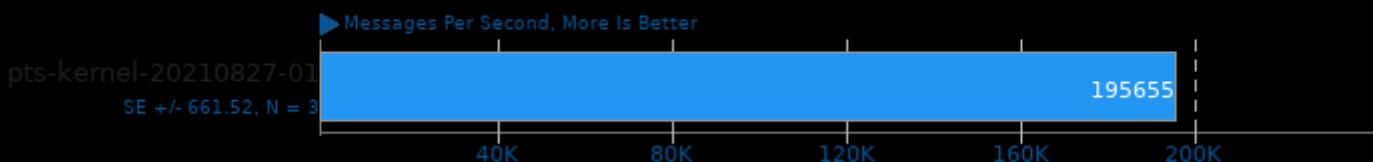
**IPC_benchmark**

Type: Unnamed Pipe - Message Bytes: 2048

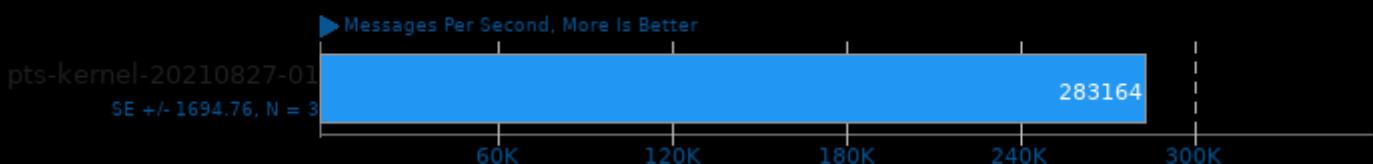


IPC_benchmark

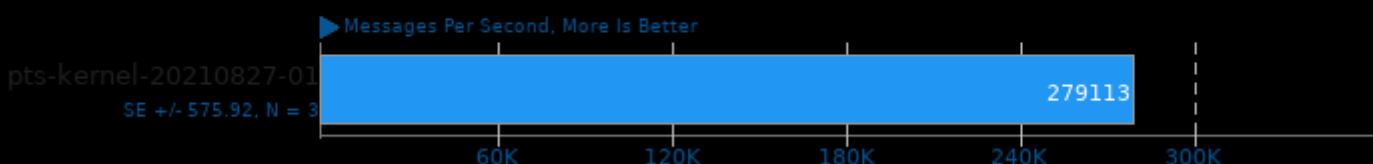
Type: Unnamed Pipe - Message Bytes: 4096

**IPC_benchmark**

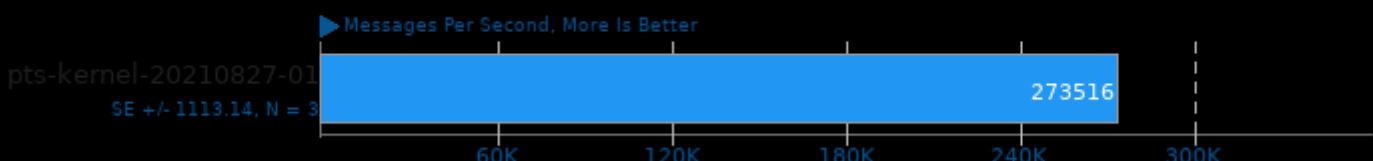
Type: FIFO Named Pipe - Message Bytes: 128

**IPC_benchmark**

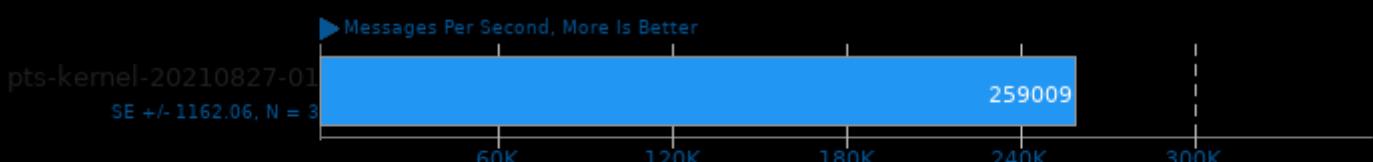
Type: FIFO Named Pipe - Message Bytes: 256

**IPC_benchmark**

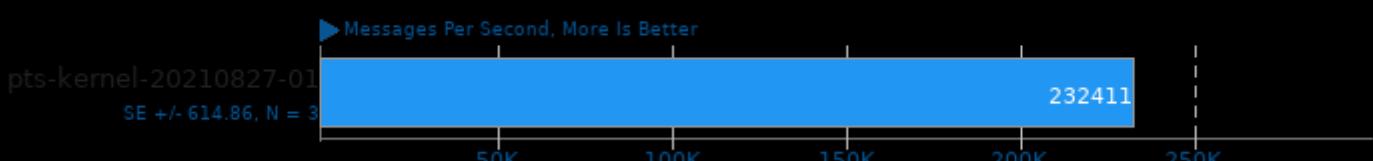
Type: FIFO Named Pipe - Message Bytes: 512

**IPC_benchmark**

Type: FIFO Named Pipe - Message Bytes: 1024

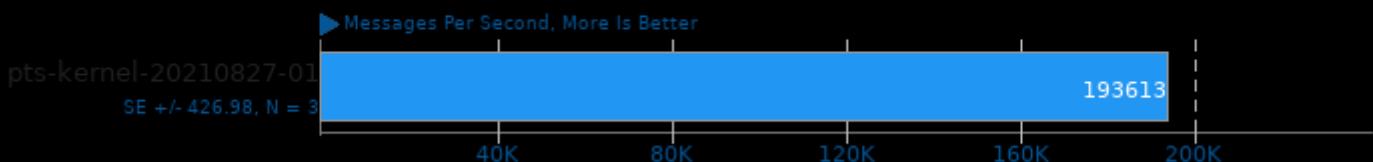
**IPC_benchmark**

Type: FIFO Named Pipe - Message Bytes: 2048

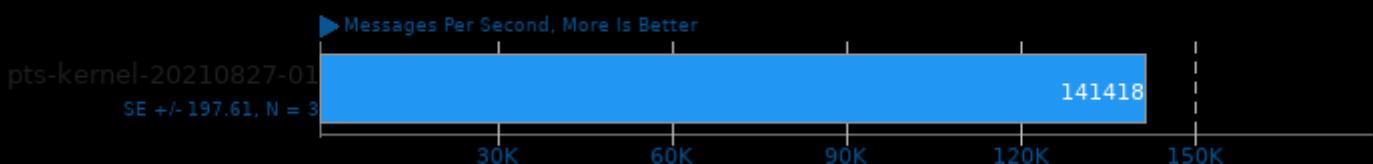


IPC_benchmark

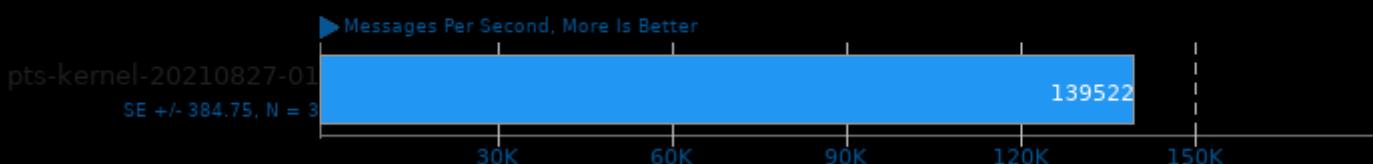
Type: FIFO Named Pipe - Message Bytes: 4096

**IPC_benchmark**

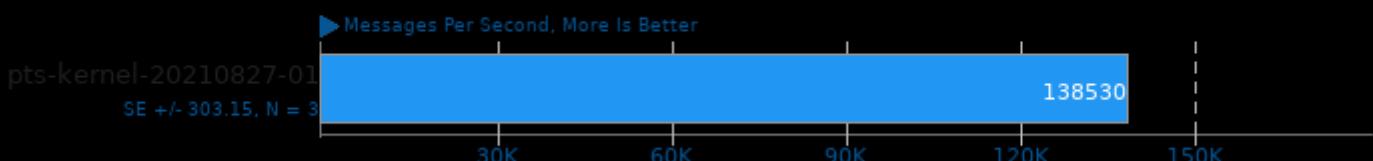
Type: Unnamed Unix Domain Socket - Message Bytes: 128

**IPC_benchmark**

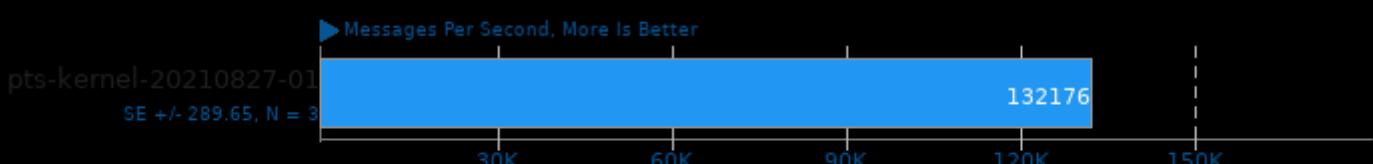
Type: Unnamed Unix Domain Socket - Message Bytes: 256

**IPC_benchmark**

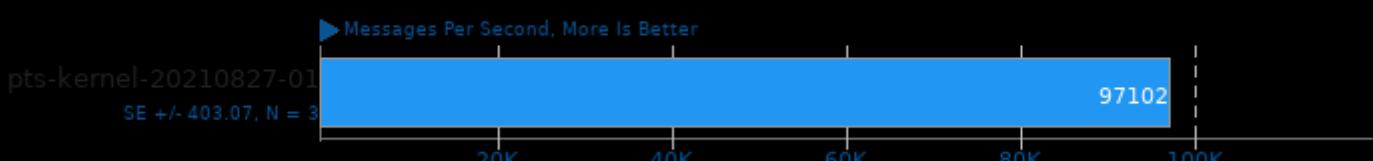
Type: Unnamed Unix Domain Socket - Message Bytes: 512

**IPC_benchmark**

Type: Unnamed Unix Domain Socket - Message Bytes: 1024

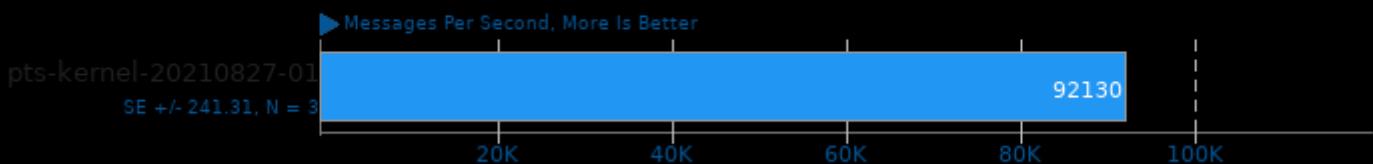
**IPC_benchmark**

Type: Unnamed Unix Domain Socket - Message Bytes: 2048



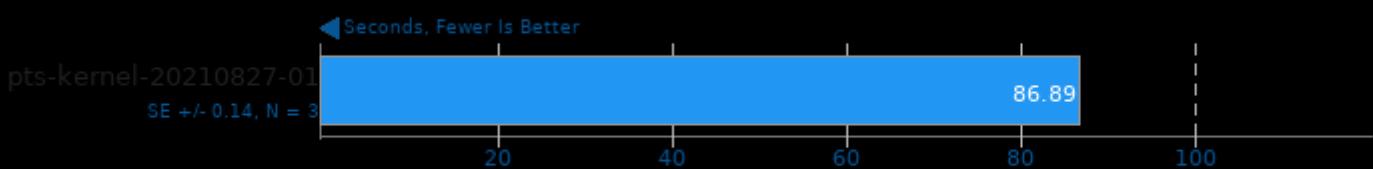
IPC_benchmark

Type: Unnamed Unix Domain Socket - Message Bytes: 4096



Hackbench

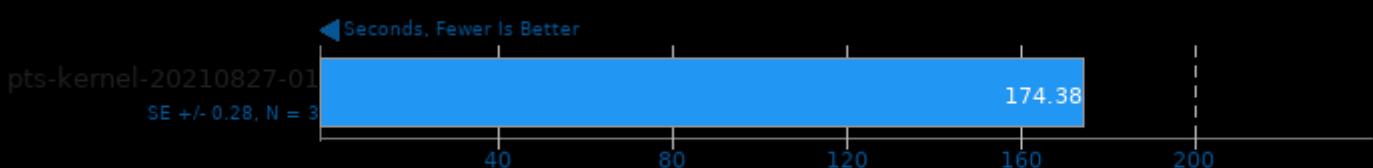
Count: 1 - Type: Thread



1. (CC) gcc options: -lpthread -O3 -pipe -mcpu=cortex-a72

Hackbench

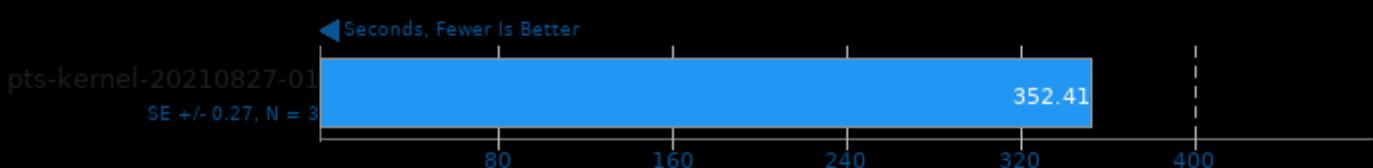
Count: 2 - Type: Thread



1. (CC) gcc options: -lpthread -O3 -pipe -mcpu=cortex-a72

Hackbench

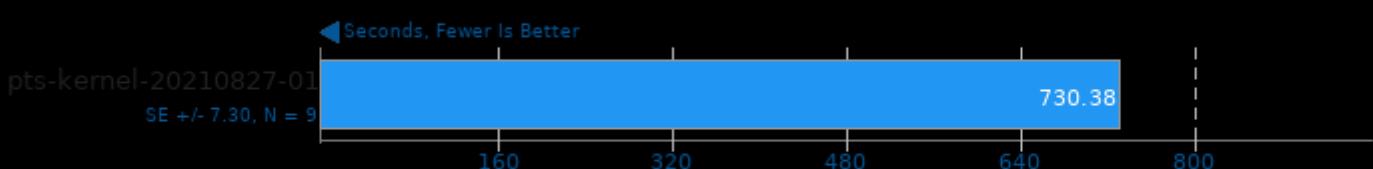
Count: 4 - Type: Thread



1. (CC) gcc options: -lpthread -O3 -pipe -mcpu=cortex-a72

Hackbench

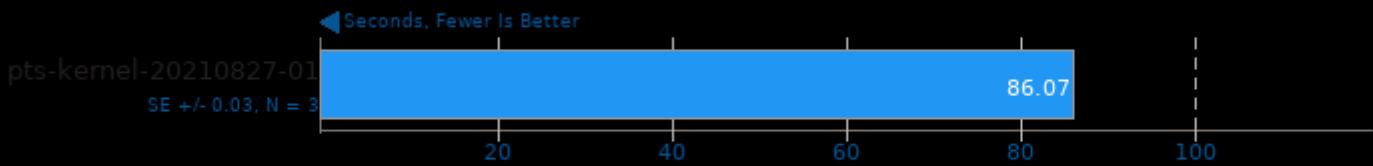
Count: 8 - Type: Thread



1. (CC) gcc options: -lpthread -O3 -pipe -mcpu=cortex-a72

Hackbench

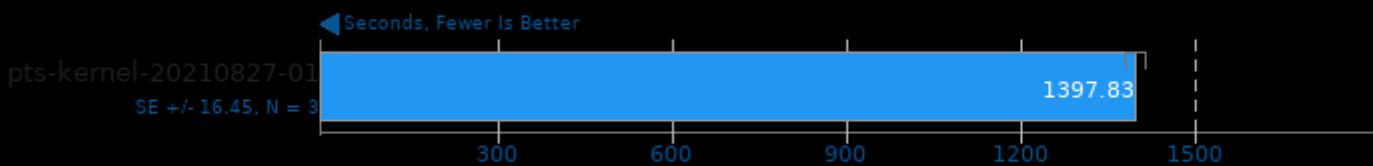
Count: 1 - Type: Process



1. (CC) gcc options: -lpthread -O3 -pipe -mcpu=cortex-a72

Hackbench

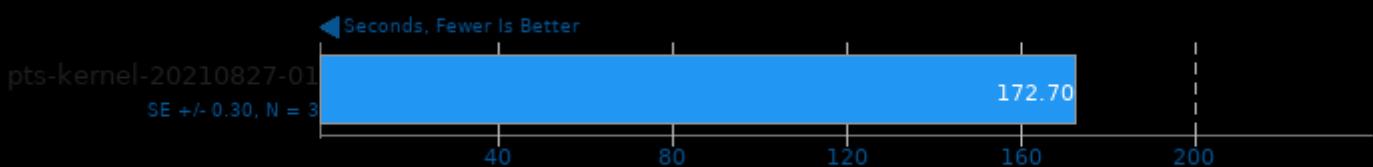
Count: 16 - Type: Thread



1. (CC) gcc options: -lpthread -O3 -pipe -mcpu=cortex-a72

Hackbench

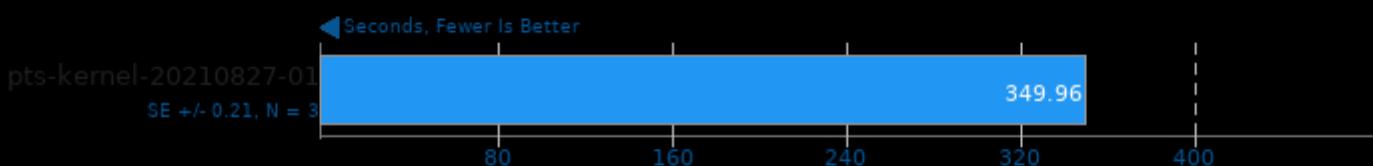
Count: 2 - Type: Process



1. (CC) gcc options: -lpthread -O3 -pipe -mcpu=cortex-a72

Hackbench

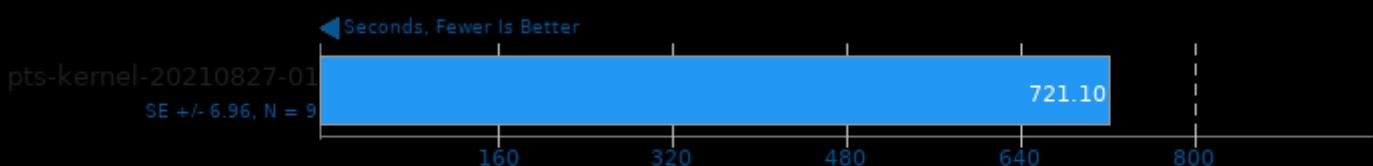
Count: 4 - Type: Process



1. (CC) gcc options: -lpthread -O3 -pipe -mcpu=cortex-a72

Hackbench

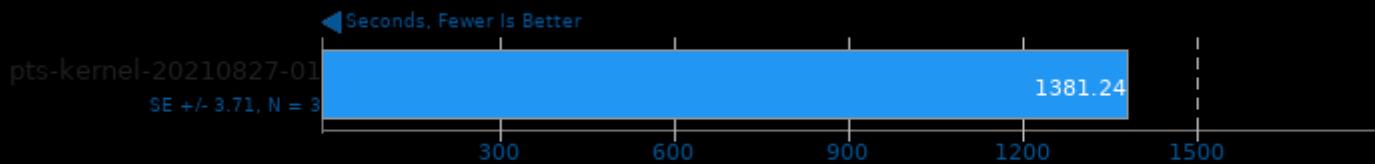
Count: 8 - Type: Process



1. (CC) gcc options: -lpthread -O3 -pipe -mcpu=cortex-a72

Hackbench

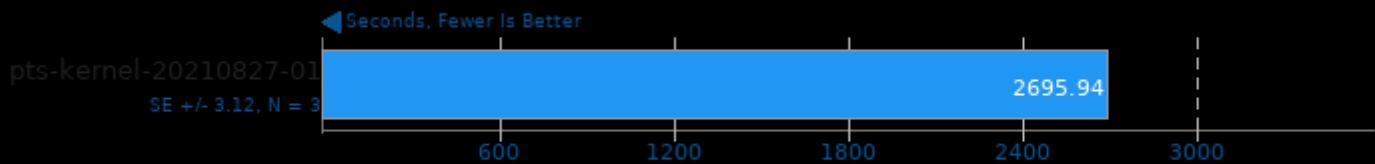
Count: 16 - Type: Process



1. (CC) gcc options: -pthread -O3 -pipe -mcpu=cortex-a72

Hackbench

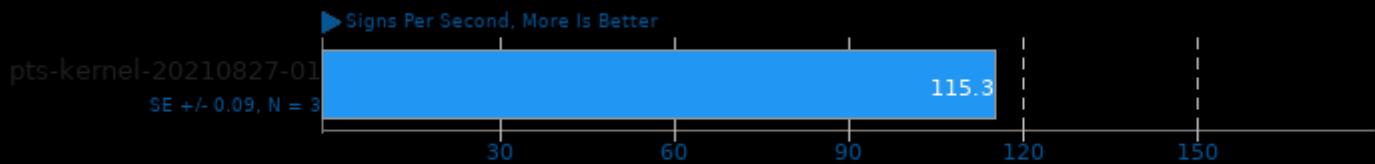
Count: 32 - Type: Process



1. (CC) gcc options: -pthread -O3 -pipe -mcpu=cortex-a72

OpenSSL 1.1.1

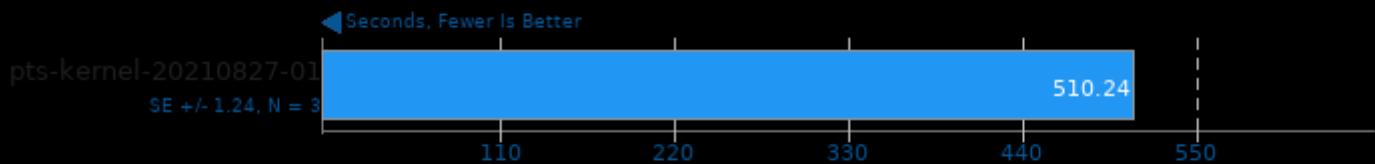
RSA 4096-bit Performance



1. (CC) gcc options: -pthread -O3 -pipe -mcpu=cortex-a72 -lssl -lcrypto -ldl

SQLite Speedtest 3.30

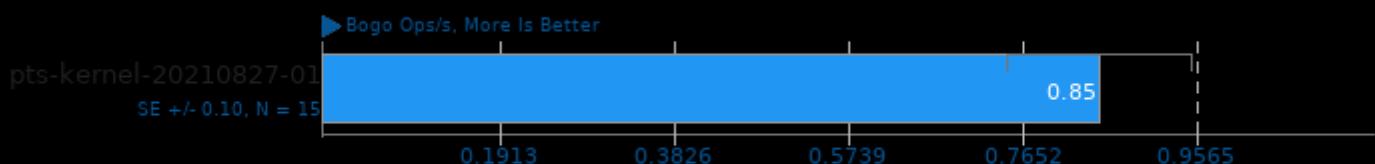
Timed Time - Size 1,000



1. (CC) gcc options: -O3 -pipe -mcpu=cortex-a72 -ldl -lz -pthread

Stress-NG 0.11.07

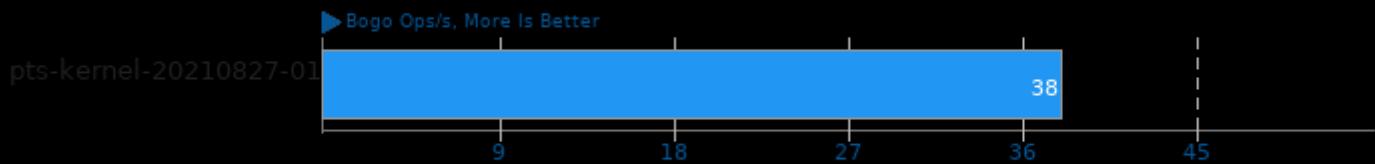
Test: MMAP



1. (CC) gcc options: -O3 -pipe -mcpu=cortex-a72 -O2 -std=gnu99 -lm -lcrypt -lrt -lz -ldl -pthread -lc

Stress-NG 0.11.07

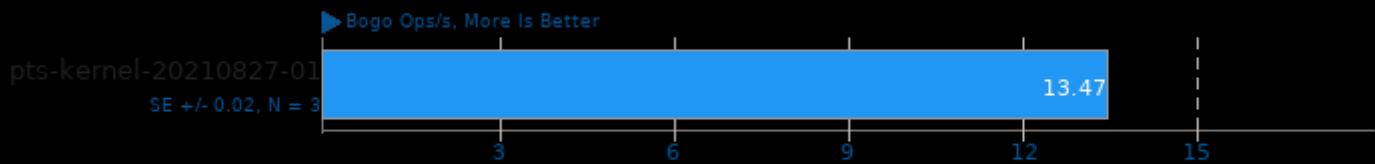
Test: NUMA



1. (CC) gcc options: -O3 -pipe -mcpu=cortex-a72 -O2 -std=gnu99 -lm -lcrypt -lrt -lz -ldl -lpthread -lc

Stress-NG 0.11.07

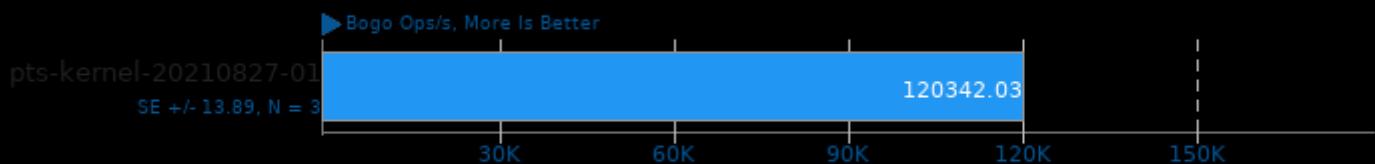
Test: MEMFD



1. (CC) gcc options: -O3 -pipe -mcpu=cortex-a72 -O2 -std=gnu99 -lm -lcrypt -lrt -lz -ldl -lpthread -lc

Stress-NG 0.11.07

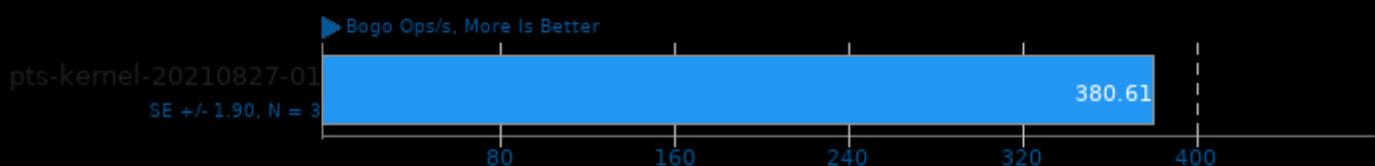
Test: Atomic



1. (CC) gcc options: -O3 -pipe -mcpu=cortex-a72 -O2 -std=gnu99 -lm -lcrypt -lrt -lz -ldl -lpthread -lc

Stress-NG 0.11.07

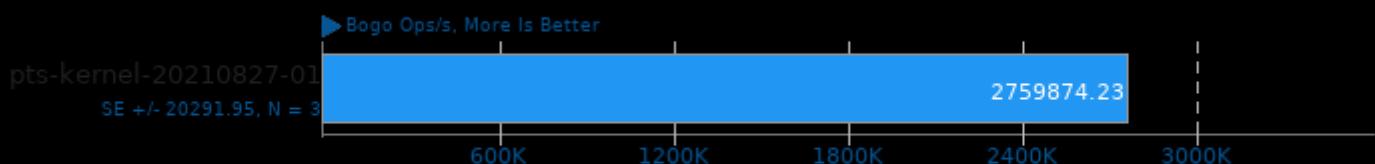
Test: Crypto



1. (CC) gcc options: -O3 -pipe -mcpu=cortex-a72 -O2 -std=gnu99 -lm -lcrypt -lrt -lz -ldl -lpthread -lc

Stress-NG 0.11.07

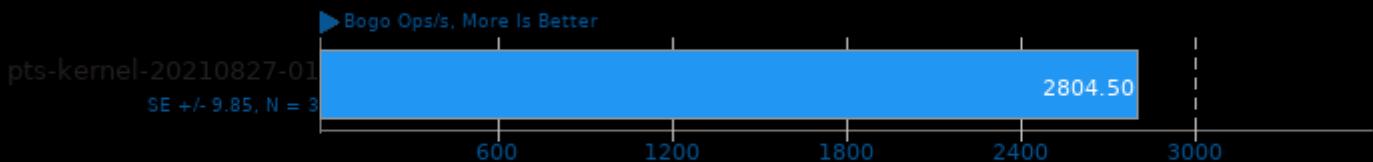
Test: Malloc



1. (CC) gcc options: -O3 -pipe -mcpu=cortex-a72 -O2 -std=gnu99 -lm -lcrypt -lrt -lz -ldl -lpthread -lc

Stress-NG 0.11.07

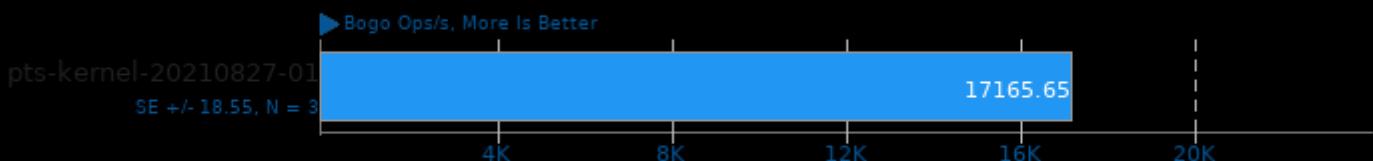
Test: Forking



1. (CC) gcc options: -O3 -pipe -mcpu=cortex-a72 -O2 -std=gnu99 -lm -lcrypt -lrt -lz -ldl -lpthread -lc

Stress-NG 0.11.07

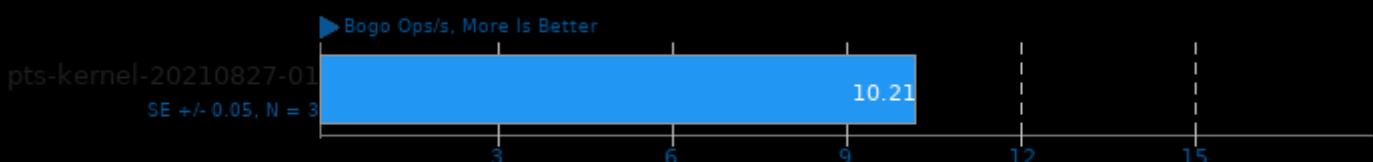
Test: SENDFILE



1. (CC) gcc options: -O3 -pipe -mcpu=cortex-a72 -O2 -std=gnu99 -lm -lcrypt -lrt -lz -ldl -lpthread -lc

Stress-NG 0.11.07

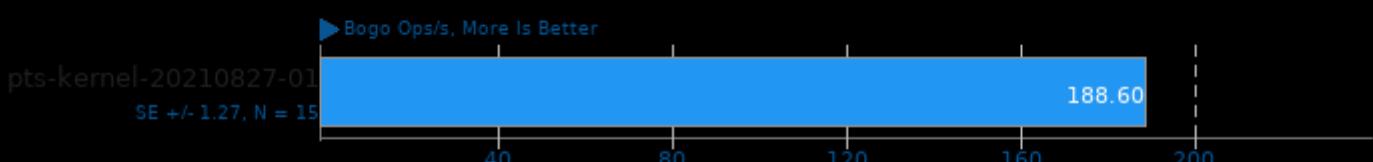
Test: CPU Cache



1. (CC) gcc options: -O3 -pipe -mcpu=cortex-a72 -O2 -std=gnu99 -lm -lcrypt -lrt -lz -ldl -lpthread -lc

Stress-NG 0.11.07

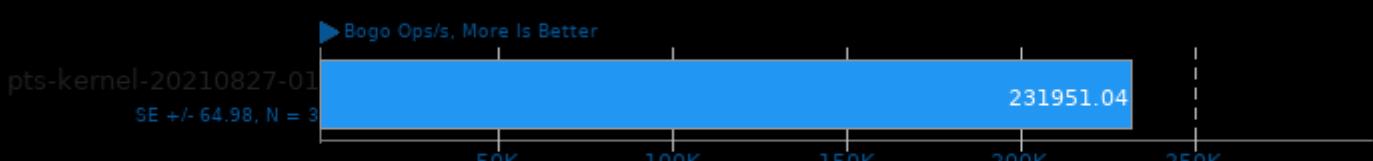
Test: CPU Stress



1. (CC) gcc options: -O3 -pipe -mcpu=cortex-a72 -O2 -std=gnu99 -lm -lcrypt -lrt -lz -ldl -lpthread -lc

Stress-NG 0.11.07

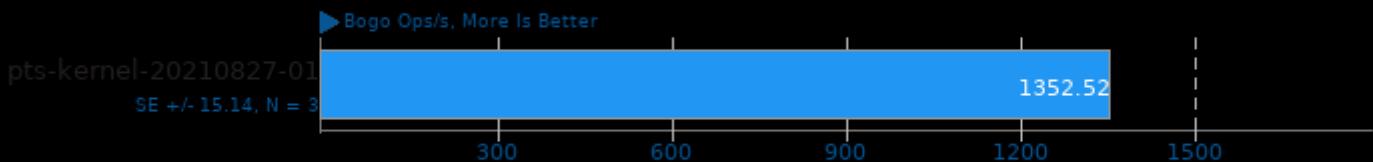
Test: Semaphores



1. (CC) gcc options: -O3 -pipe -mcpu=cortex-a72 -O2 -std=gnu99 -lm -lcrypt -lrt -lz -ldl -lpthread -lc

Stress-NG 0.11.07

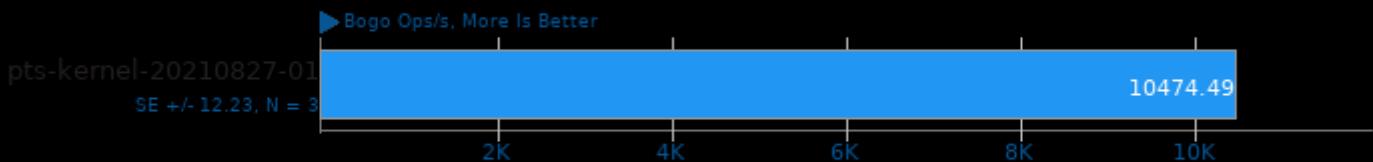
Test: Matrix Math



1. (CC) gcc options: -O3 -pipe -mcpu=cortex-a72 -O2 -std=gnu99 -lm -lcrypt -lrt -lz -ldl -lpthread -lc

Stress-NG 0.11.07

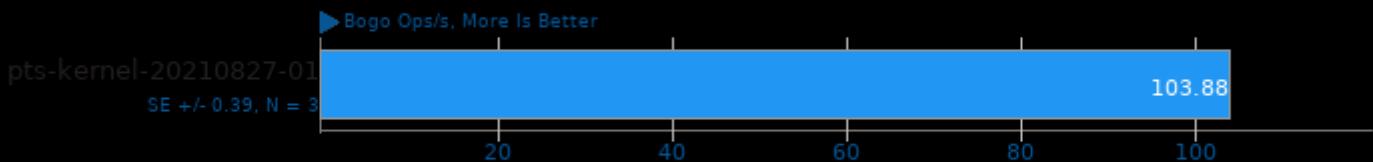
Test: Vector Math



1. (CC) gcc options: -O3 -pipe -mcpu=cortex-a72 -O2 -std=gnu99 -lm -lcrypt -lrt -lz -ldl -lpthread -lc

Stress-NG 0.11.07

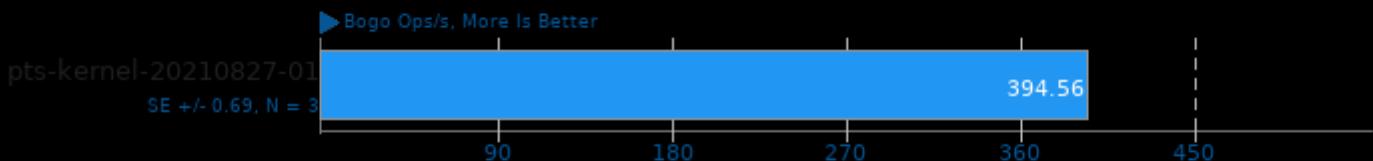
Test: Memory Copying



1. (CC) gcc options: -O3 -pipe -mcpu=cortex-a72 -O2 -std=gnu99 -lm -lcrypt -lrt -lz -ldl -lpthread -lc

Stress-NG 0.11.07

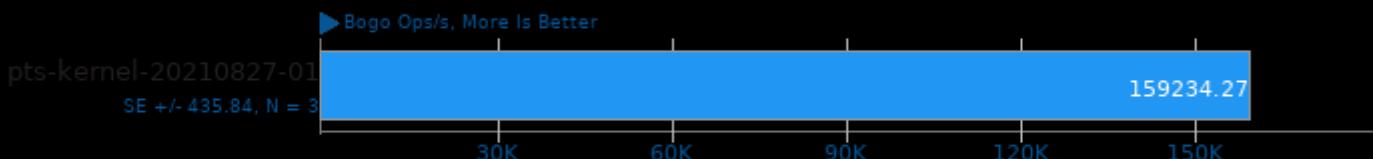
Test: Socket Activity



1. (CC) gcc options: -O3 -pipe -mcpu=cortex-a72 -O2 -std=gnu99 -lm -lcrypt -lrt -lz -ldl -lpthread -lc

Stress-NG 0.11.07

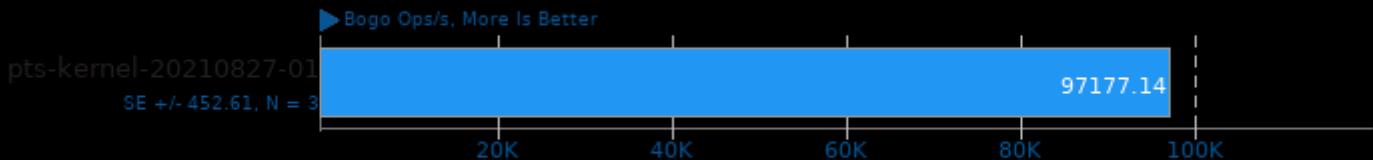
Test: Context Switching



1. (CC) gcc options: -O3 -pipe -mcpu=cortex-a72 -O2 -std=gnu99 -lm -lcrypt -lrt -lz -ldl -lpthread -lc

Stress-NG 0.11.07

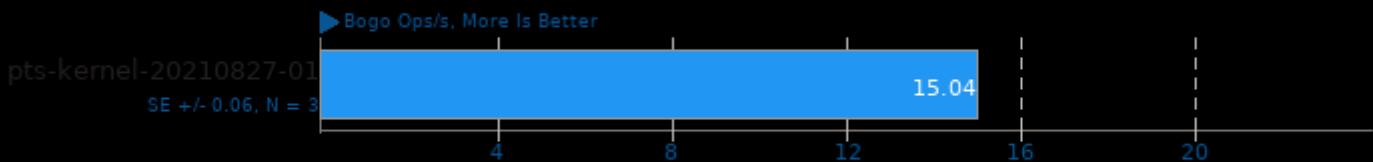
Test: Glibc C String Functions



1. (CC) gcc options: -O3 -pipe -mcpu=cortex-a72 -O2 -std=gnu99 -lm -lcrypt -lrt -lz -ldl -lpthread -lc

Stress-NG 0.11.07

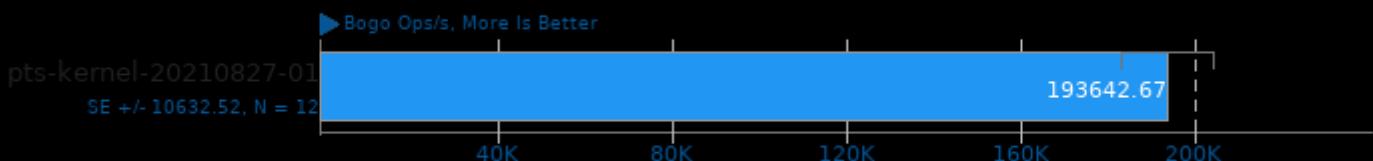
Test: Glibc Qsort Data Sorting



1. (CC) gcc options: -O3 -pipe -mcpu=cortex-a72 -O2 -std=gnu99 -lm -lcrypt -lrt -lz -ldl -lpthread -lc

Stress-NG 0.11.07

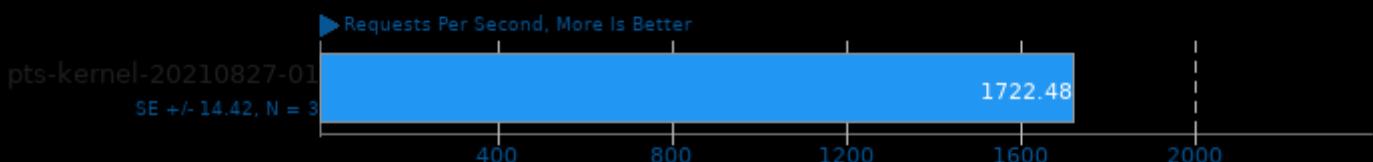
Test: System V Message Passing



1. (CC) gcc options: -O3 -pipe -mcpu=cortex-a72 -O2 -std=gnu99 -lm -lcrypt -lrt -lz -ldl -lpthread -lc

Apache HTTP Server 2.4.48

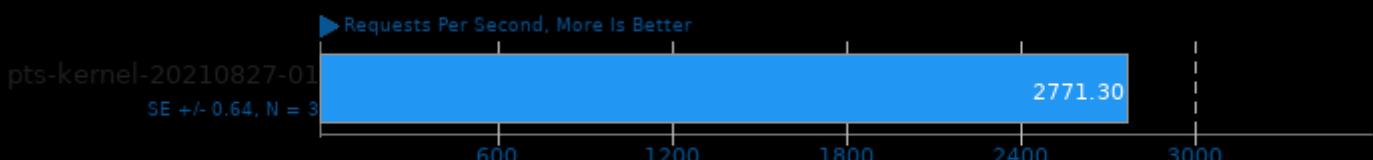
Concurrent Requests: 1



1. (CC) gcc options: -shared -fPIC -pthread -O3 -mcpu=cortex-a72

Apache HTTP Server 2.4.48

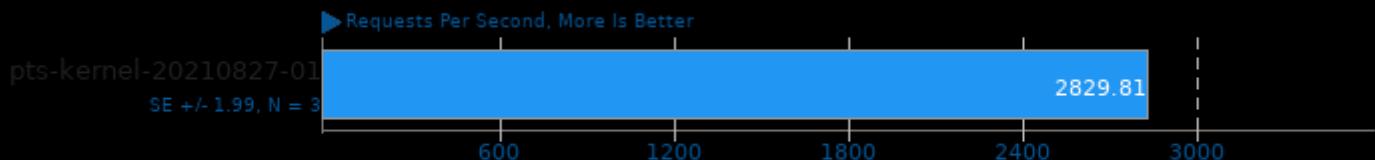
Concurrent Requests: 20



1. (CC) gcc options: -shared -fPIC -pthread -O3 -mcpu=cortex-a72

Apache HTTP Server 2.4.48

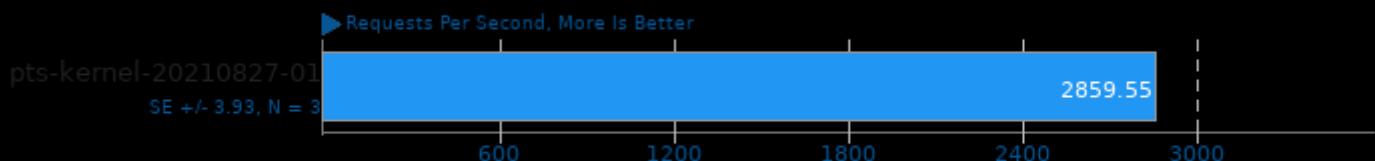
Concurrent Requests: 100



1. (CC) gcc options: -shared -fPIC -pthread -O3 -mcpu=cortex-a72

Apache HTTP Server 2.4.48

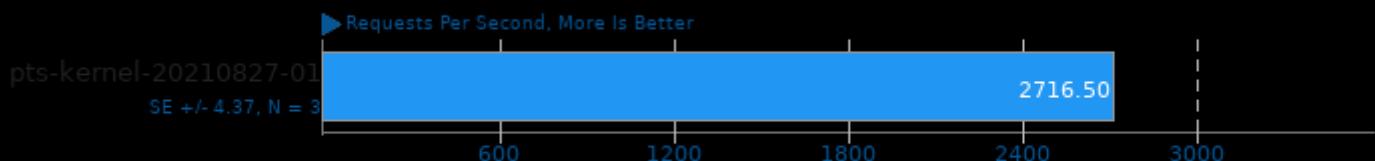
Concurrent Requests: 200



1. (CC) gcc options: -shared -fPIC -pthread -O3 -mcpu=cortex-a72

Apache HTTP Server 2.4.48

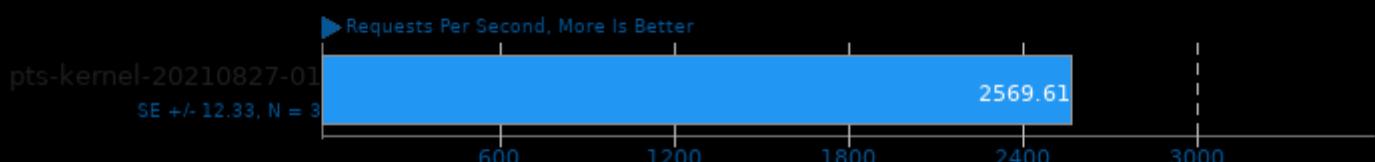
Concurrent Requests: 500



1. (CC) gcc options: -shared -fPIC -pthread -O3 -mcpu=cortex-a72

Apache HTTP Server 2.4.48

Concurrent Requests: 1000



1. (CC) gcc options: -shared -fPIC -pthread -O3 -mcpu=cortex-a72

This file was automatically generated via the Phoronix Test Suite benchmarking software on Friday, 29 March 2024 04:21.