www.phoronix-test-suite.com

lowmemory

Intel Core i7-6500U testing with a Purism Librem 15 v3 v3.0 (4.6-a86d1b-Purism-4 BIOS) and Intel HD 520 3GB on Ubuntu 19.10 via the Phoronix Test Suite.

Test Systems:

lowmemoryzfs

Processor: Intel Core i7-6500U @ 3.10GHz (2 Cores / 4 Threads), Motherboard: Purism Librem 15 v3 v3.0 (4.6-a86d1b-Purism-4 BIOS), Chipset: Intel Xeon E3-1200 v5/E3-1500, Memory: 8192MB, Disk: 500GB Samsung SSD 850, Graphics: Intel HD 520 3GB (1050MHz), Audio: Realtek ALC269VC, Network: Qualcomm Atheros AR9462

OS: Ubuntu 19.10, Kernel: 5.3.0-19-generic (x86_64), Desktop: GNOME Shell 3.34.1, Display Server: X Server 1.20.5, Display Driver: modesetting 1.20.5, OpenGL: 4.5 Mesa 19.2.1, Compiler: GCC 9.2.1 20191008, File-System: zfs, Screen Resolution: 1920x1080

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++,gm2 --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-multilib --enable-nls --enable-offload-targets=nvptx-none,hsa --enable-plugin --enable-shared --enable-threads=posix --host=x86_64-linux-gnu

lowmemory

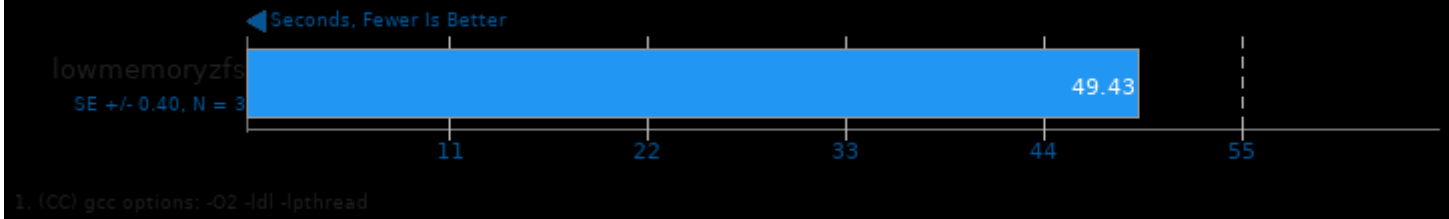
--program-prefix=x86_64-linux-gnu- --target=x86_64-linux-gnu --with-abi=m64 --with-arch-32=i686 --with-default-libstdcxx-abi=new --with-gcc-major-version-only --with-multilib-list=m32,m64,mx32 --with-target-system-zlib=auto --with-tune=generic --without-cuda-driver -v
Processor Notes: Scaling Governor: intel_pstate powersave
Disk Scheduler Notes: MQ-DEADLINE
Python Notes: Python 2.7.17rc1 + Python 3.7.5rc1
Security Notes: l1tf: Mitigation of PTE Inversion; VMX: conditional cache flushes SMT vulnerable + mds: Mitigation of Clear buffers; SMT vulnerable + meltdown: Mitigation of PTI + 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 generic retpoline IBPB: conditional IBRS_FW STIBP: conditional RSB filling

	lowmemoryzfs
SQLite - T.S.I (sec)	49.43
Standard Deviation	1.4%
FS-Mark - 1.F.1.S (Files/s)	148.70
Standard Deviation	3%
FS-Mark - 5.F.1.S.4.T (Files/s)	164.16
Standard Deviation	2.9%
FS-Mark - 4.F.3.S.D.1.S (Files/s)	112.57
Standard Deviation	5.5%
FS-Mark - 1.F.1.S.N.S.F (Files/s)	814.63
Standard Deviation	2.2%
Dbench - 12 Clients (MB/s)	318.93
Standard Deviation	8.9%
Dbench - 1 Clients (MB/s)	65.81
Standard Deviation	2.4%
Compile Bench - Compile (MB/s)	971.08
Standard Deviation	0.5%
Compile Bench - Initial Create (MB/s)	126.32
Standard Deviation	0.9%
Compile Bench - Read Compiled Tree (MB/s)	808.88
Standard Deviation	1.6%
PostMark - D.T.P (TPS)	1794
Standard Deviation	0.4%

lowmemory

SQLite 3.22

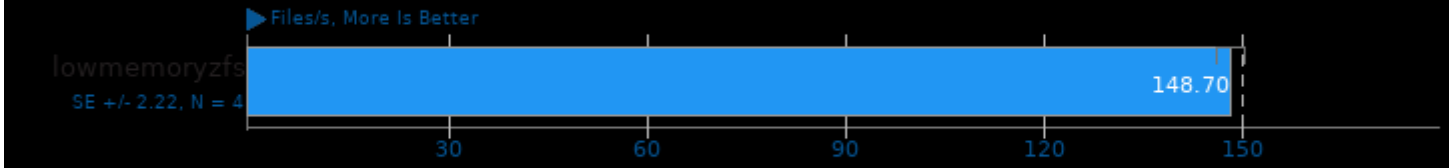
Timed SQLite Insertions



1. (CC) gcc options: -O2 -ldl -lpthread

FS-Mark 3.3

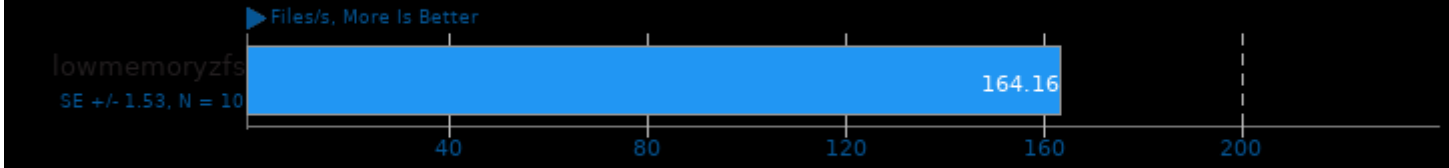
Test: 1000 Files, 1MB Size



1. (CC) gcc options: -static

FS-Mark 3.3

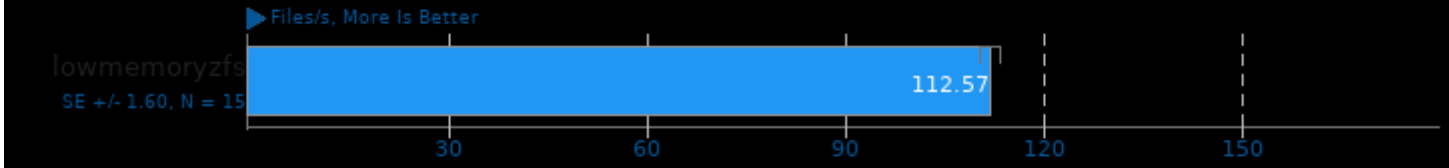
Test: 5000 Files, 1MB Size, 4 Threads



1. (CC) gcc options: -static

FS-Mark 3.3

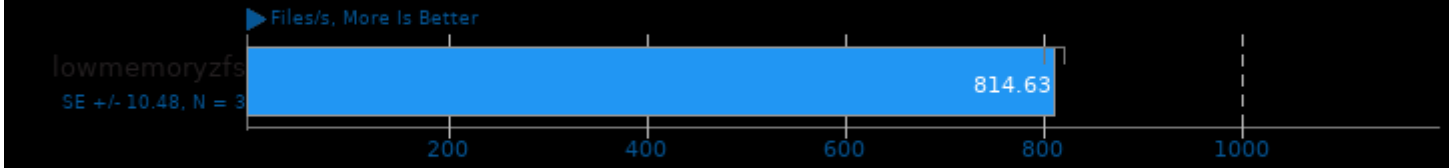
Test: 4000 Files, 32 Sub Dirs, 1MB Size



1. (CC) gcc options: -static

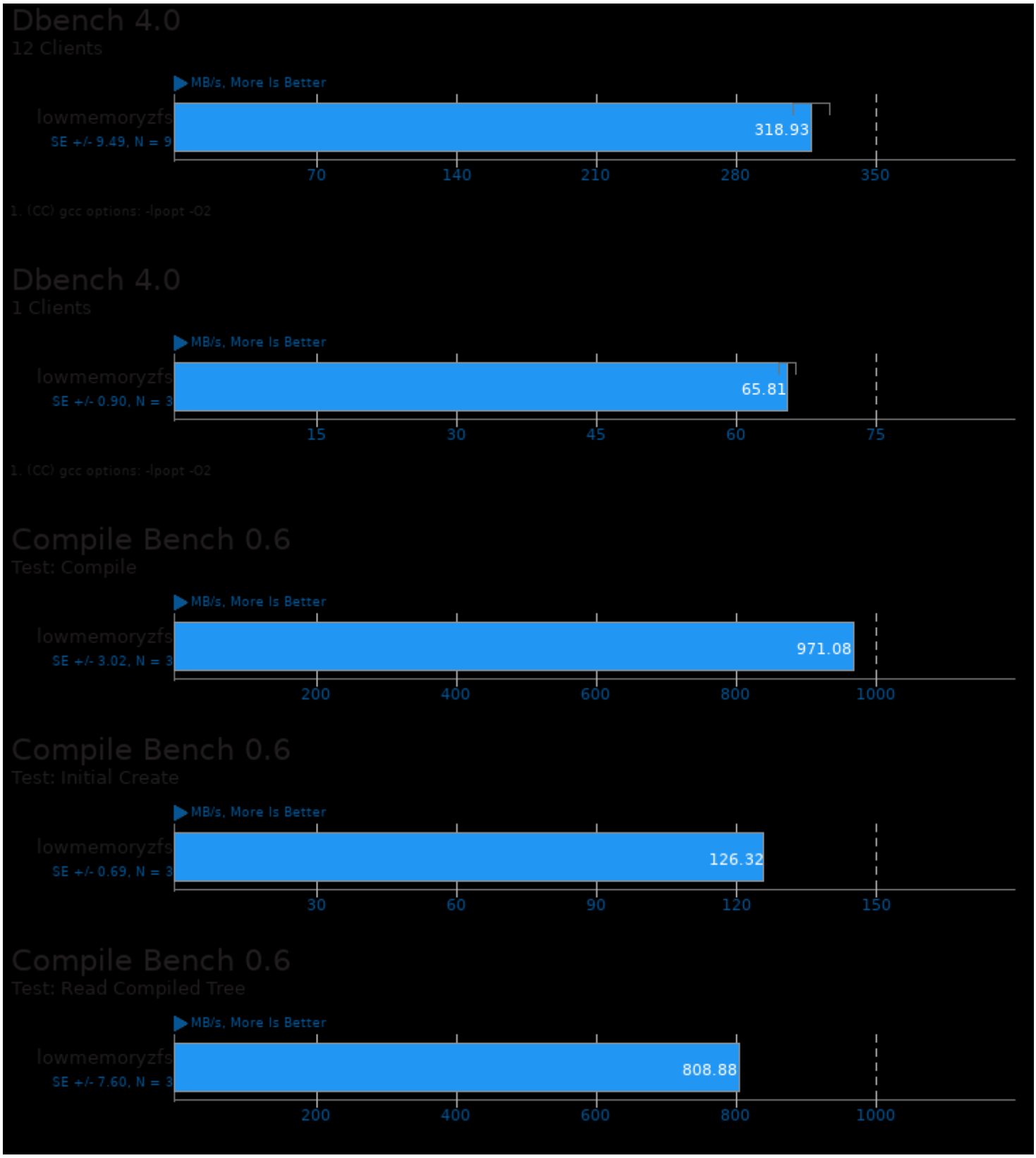
FS-Mark 3.3

Test: 1000 Files, 1MB Size, No Sync/FSync

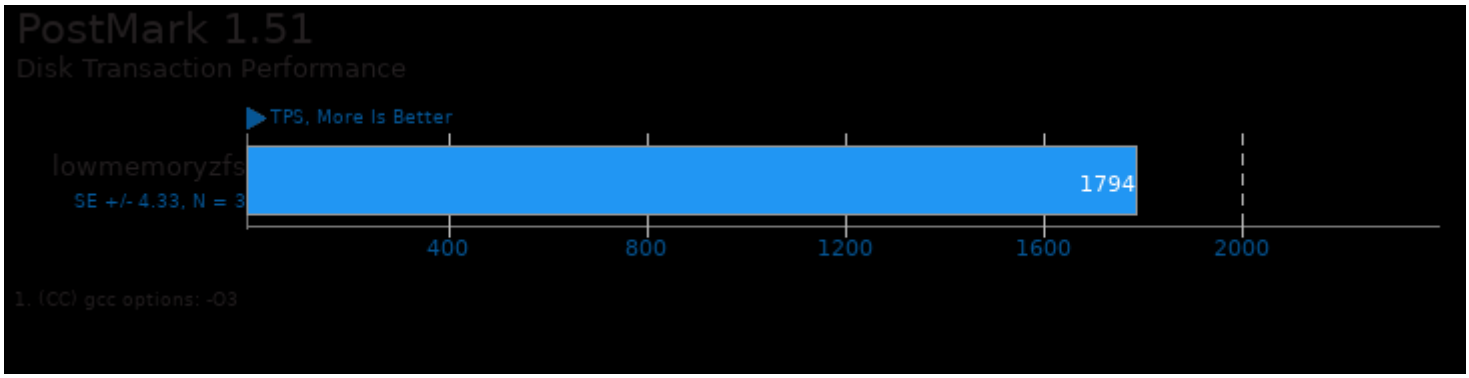


1. (CC) gcc options: -static

lowmemory


Dbench 4.0
12 Clients
MB/s, More Is Better
lowmemoryzfs
SE +/- 9.49, N = 9
318.93
70
140
210
280
350
1. (CC) gcc options: -lpopt -O2
Dbench 4.0
1 Clients
MB/s, More Is Better
lowmemoryzfs
SE +/- 0.90, N = 3
65.81
15
30
45
60
75
1. (CC) gcc options: -lpopt -O2
Compile Bench 0.6
Test: Compile
MB/s, More Is Better
lowmemoryzfs
SE +/- 3.02, N = 3
971.08
200
400
600
800
1000
Compile Bench 0.6
Test: Initial Create
MB/s, More Is Better
lowmemoryzfs
SE +/- 0.69, N = 3
126.32
30
60
90
120
150
Compile Bench 0.6
Test: Read Compiled Tree
MB/s, More Is Better
lowmemoryzfs
SE +/- 7.60, N = 3
808.88
200
400
600
800
1000

lowmemory



This file was automatically generated via the Phoronix Test Suite benchmarking software on Thursday, 28 March 2024 17:37.