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Oracle-640-TunedBBU-LPDisabled-RUN7

Testing-Oracle-Linux-on-a-Dell-640-The-tuned-adm-profile-is-xran-bbu-Logical-Processors-are-disabled

Test Systems:

Oracle-640-TunedBBU-LPDisabled-RUN7---07-31-2021_03-33-09

Processor: Intel Xeon Gold 5218 @ 3.90GHz (16 Cores), Motherboard: Dell 0H28RR (2.11.2 BIOS), Chipset: Intel Sky Lake-E DMI3 Registers, Memory: 8 x GB DDR4-3200MT/s HMA81GR7CJR8N-XN, Disk: 4000GB PERC H730P Mini, Graphics: Matrox G200eW3, Network: 2 x Mellanox MT27710 + 2 x Intel I350

OS: Oracle Linux Server 8.4, Kernel: 5.4.17-2102.202.5.el8uek.x86_64 (x86_64), Compiler: GCC 8.4.1 20200928, File-System: xfs, Screen Resolution: 1024x768

Kernel Notes: Transparent Huge Pages: never
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
Disk Notes: MQ-DEADLINE / attr2,inode64,logbsize=32k,logbufs=8,noquota,relatime,rw,seclabel / Block Size: 4096
Processor Notes: Scaling Governor: intel_pstate performance - CPU Microcode: 0x5003102

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Security Notes: SELinux + itlb_multihit: KVM: Mitigation of Split huge pages + 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 Enhanced IBRS IBPB: conditional RSB filling + srbds: Not affected + tsx_async_abort: Mitigation of TSX disabled

	Oracle-640-TunedBBU-LPDisabled-RUN7---07-31-2021_03-33-09
Sysbench - CPU (Events/sec)	15807
Standard Deviation	0%
Core-Latency - A.L.B.C.C (ns)	212.089
CacheBench - R.M.W (MB/s)	20769
Standard Deviation	0%
CacheBench - Write (MB/s)	19488
Standard Deviation	0%
CacheBench - Read (MB/s)	2364
Standard Deviation	0%
pmbench - 16 - 8.R.2.W (us - Page Latency)	0.1098
Standard Deviation	0.4%
pmbench - 4 - 8.R.2.W (us - Page Latency)	0.1091
Standard Deviation	0.1%
pmbench - 1 - 8.R.2.W (us - Page Latency)	0.1091
Standard Deviation	0.1%
pmbench - 16 - 100% Writes (us - Page Latency)	0.0503
Standard Deviation	0.1%
pmbench - 4 - 100% Writes (us - Page Latency)	0.0502
Standard Deviation	0.2%
pmbench - 16 - 100% Reads (us - Page Latency)	0.0495
Standard Deviation	0%
pmbench - 1 - 100% Writes (us - Page Latency)	0.0502
Standard Deviation	0%
pmbench - 4 - 100% Reads (us - Page Latency)	0.0494
Standard Deviation	0.1%
pmbench - 1 - 100% Reads (us - Page Latency)	0.0494
Standard Deviation	0.1%
pmbench - 16 - 50% (us - Page Latency)	0.0904
Standard Deviation	0.7%
pmbench - 4 - 50% (us - Page Latency)	0.0906
Standard Deviation	0.2%
pmbench - 1 - 50% (us - Page Latency)	0.0892
Standard Deviation	0.2%
MBW - M.C.F.B.S - 8192 MiB (MiB/s)	7649
Standard Deviation	0.9%
MBW - M.C.F.B.S - 4096 MiB (MiB/s)	7872
Standard Deviation	1%
MBW - M.C.F.B.S - 1024 MiB (MiB/s)	8255
Standard Deviation	0.3%
MBW - M.C.F.B.S - 512 MiB (MiB/s)	8385
Standard Deviation	0.1%
MBW - M.C.F.B.S - 128 MiB (MiB/s)	8602
Standard Deviation	0.1%

MBW - Memory Copy - 8192 MiB (MiB/s)	8728
Standard Deviation	0.2%
MBW - Memory Copy - 4096 MiB (MiB/s)	8876
Standard Deviation	0.6%
MBW - Memory Copy - 1024 MiB (MiB/s)	8969
Standard Deviation	0.1%
MBW - Memory Copy - 512 MiB (MiB/s)	9006
Standard Deviation	0.1%
MBW - Memory Copy - 128 MiB (MiB/s)	9221
Standard Deviation	0.1%
Stream - Add (MB/s)	52526
Standard Deviation	0.2%
Stream - Triad (MB/s)	53284
Standard Deviation	0.1%
Stream - Scale (MB/s)	46887
Standard Deviation	0.2%
Stream - Copy (MB/s)	60784
Standard Deviation	0.1%
RAMspeed SMP - Average - Floating Point (MB/s)	27921
Standard Deviation	0.1%
RAMspeed SMP - Triad - Floating Point (MB/s)	27822
Standard Deviation	0.7%
RAMspeed SMP - Scale - Floating Point (MB/s)	27044
Standard Deviation	0.2%
RAMspeed SMP - Copy - Floating Point (MB/s)	28757
Standard Deviation	0.6%
RAMspeed SMP - Add - Floating Point (MB/s)	27877
Standard Deviation	0.7%
RAMspeed SMP - Average - Integer (MB/s)	28240
Standard Deviation	0%
RAMspeed SMP - Triad - Integer (MB/s)	27657
Standard Deviation	0.7%
RAMspeed SMP - Scale - Integer (MB/s)	27104
Standard Deviation	0.5%
RAMspeed SMP - Copy - Integer (MB/s)	28855
Standard Deviation	0.2%
RAMspeed SMP - Add - Integer (MB/s)	28757
Standard Deviation	0.8%
Intel Memory Latency Checker - P.I.B - Stream-Triad Like (MB/s)	66430
Standard Deviation	0%
Intel Memory Latency Checker - P.I.B - 1:1 Reads-Writes (MB/s)	63571
Standard Deviation	0.2%
Intel Memory Latency Checker - P.I.B - 2:1 Reads-Writes (MB/s)	69333
Standard Deviation	0.1%
Intel Memory Latency Checker - P.I.B - 3:1 Reads-Writes (MB/s)	70782
Standard Deviation	0.2%
Intel Memory Latency Checker - P.I.B - All Reads (MB/s)	78375
Standard Deviation	0%
Intel Memory Latency Checker - Max Bandwidth - Stream-Triad Like (MB/s)	72245
Standard Deviation	0%

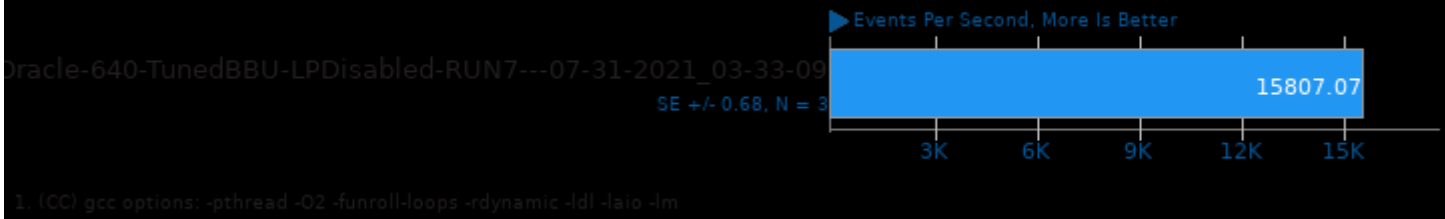
Oracle-640-TunedBBU-LPDisabled-RUN7

Intel Memory Latency Checker - Max Bandwidth - 1:1 Reads-Writes (MB/s)	63644
Standard Deviation	0.1%
Intel Memory Latency Checker - Max Bandwidth - 2:1 Reads-Writes (MB/s)	69228
Standard Deviation	0.1%
Intel Memory Latency Checker - Max Bandwidth - 3:1 Reads-Writes (MB/s)	70966
Standard Deviation	0.2%
Intel Memory Latency Checker - Max Bandwidth - All Reads (MB/s)	79272
Standard Deviation	0%
Intel Memory Latency Checker - Idle Latency (ns)	68.4
Standard Deviation	0%
IOzone - 4Kb - 512MB - Write Performance (MB/s)	51.30
Standard Deviation	1.6%

Oracle-640-TunedBBU-LPDisabled-RUN7

Sysbench 1.0.20

Test: CPU



1. (CC) gcc options: -pthread -O2 -funroll-loops -rdynamic -ldl -laio -lm

Core-Latency

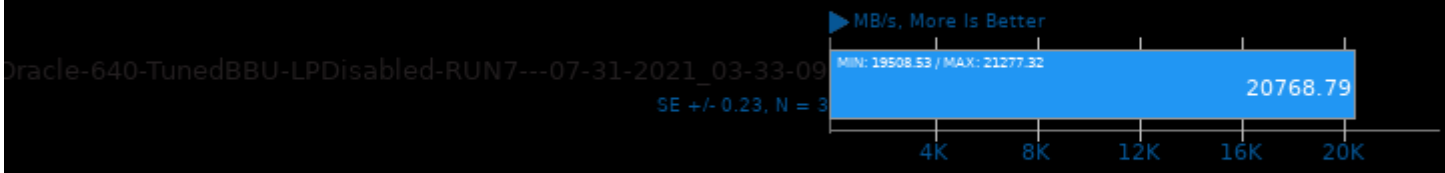
Average Latency Between CPU Cores



1. (CXX) g++ options: -std=c++11 -pthread -O3

CacheBench

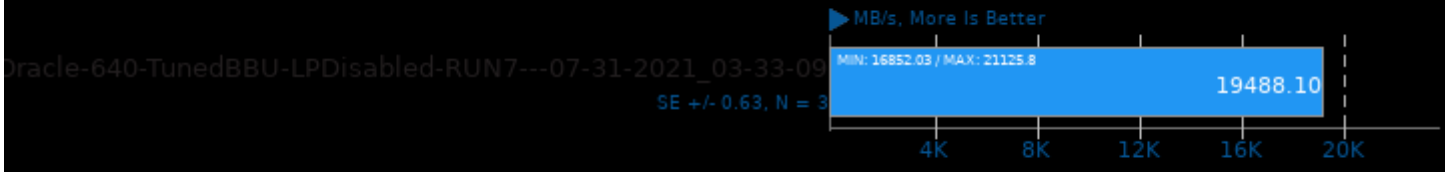
Test: Read / Modify / Write



1. (CC) gcc options: -lrt

CacheBench

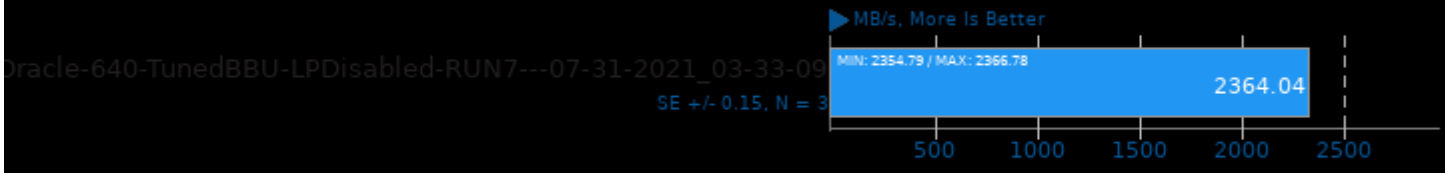
Test: Write



1. (CC) gcc options: -lrt

CacheBench

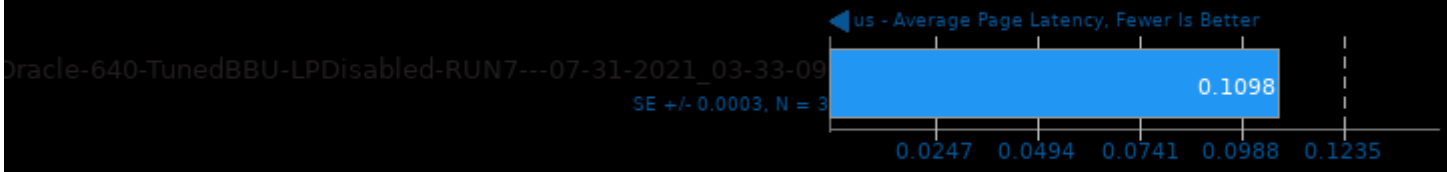
Test: Read



1. (CC) gcc options: -lrt

pmbench

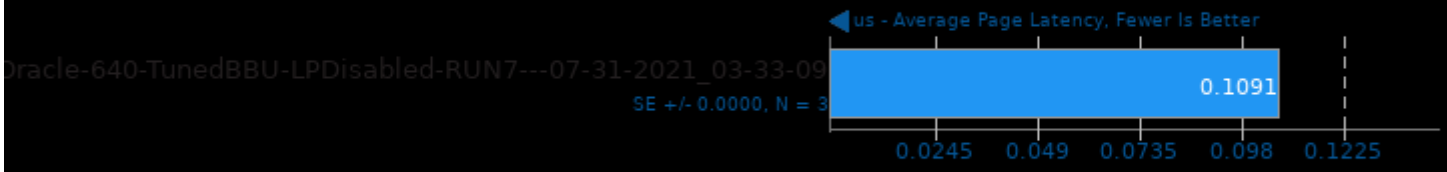
Concurrent Worker Threads: 16 - Read-Write Ratio: 80% Reads 20% Writes



1. (CC) gcc options: -lm -luuid -lxml2 -m64 -pthread

pmbench

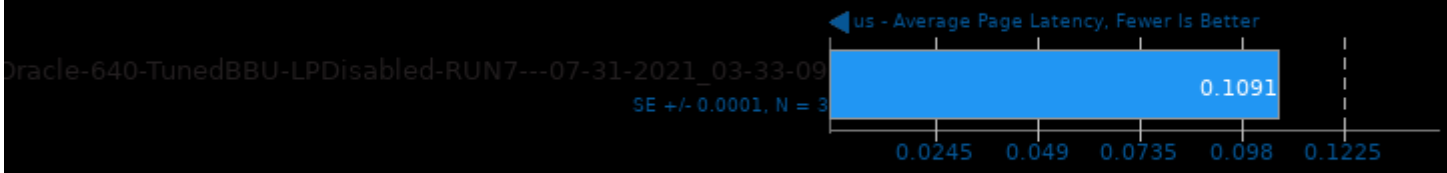
Concurrent Worker Threads: 4 - Read-Write Ratio: 80% Reads 20% Writes



1. (CC) gcc options: -lm -luuid -lxml2 -m64 -pthread

pmbench

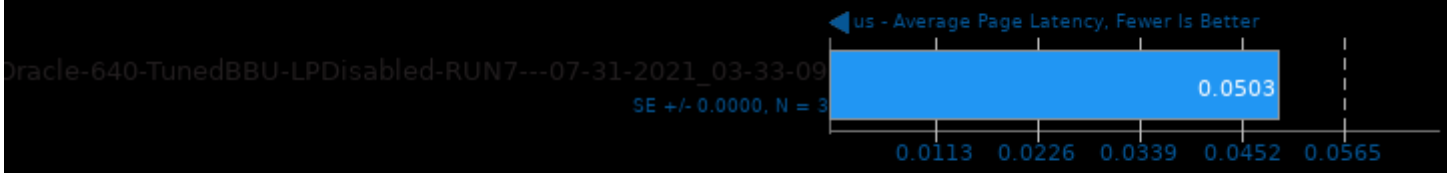
Concurrent Worker Threads: 1 - Read-Write Ratio: 80% Reads 20% Writes



1. (CC) gcc options: -lm -luuid -lxml2 -m64 -pthread

pmbench

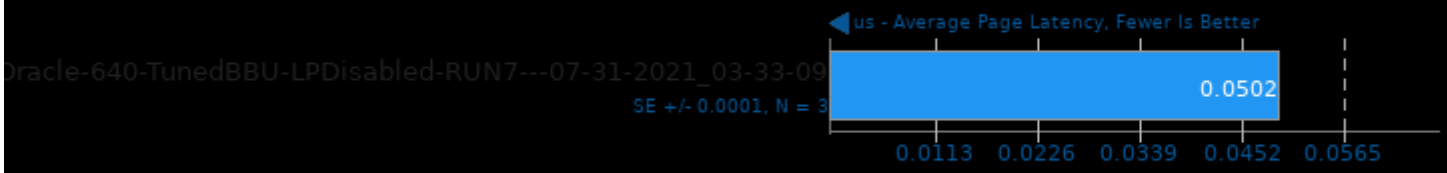
Concurrent Worker Threads: 16 - Read-Write Ratio: 100% Writes



1. (CC) gcc options: -lm -luuid -lxml2 -m64 -pthread

pmbench

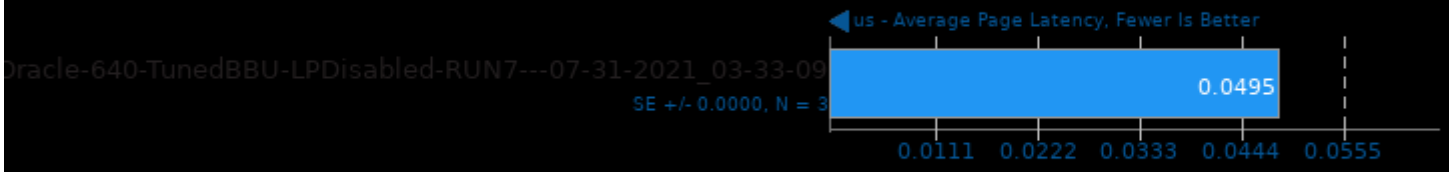
Concurrent Worker Threads: 4 - Read-Write Ratio: 100% Writes



1. (CC) gcc options: -lm -luuid -lxml2 -m64 -pthread

pmbench

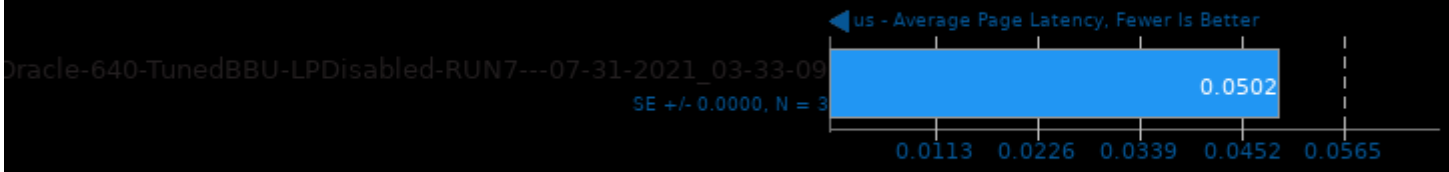
Concurrent Worker Threads: 16 - Read-Write Ratio: 100% Reads



1. (CC) gcc options: -lm -luuid -lxml2 -m64 -pthread

pmbench

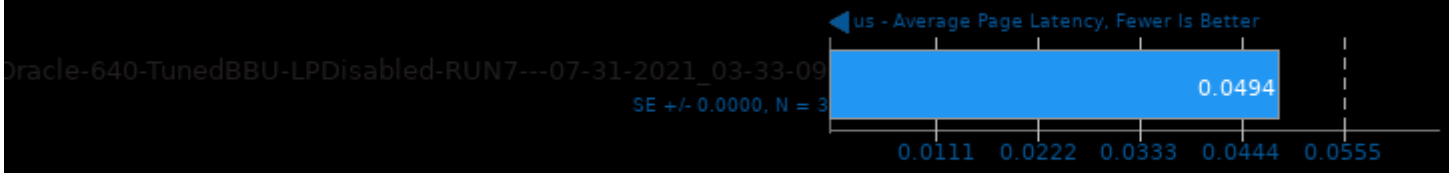
Concurrent Worker Threads: 1 - Read-Write Ratio: 100% Writes



1. (CC) gcc options: -lm -luuid -lxml2 -m64 -pthread

pmbench

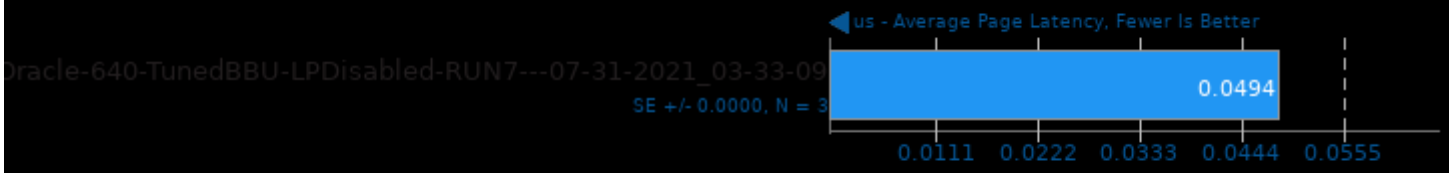
Concurrent Worker Threads: 4 - Read-Write Ratio: 100% Reads



1. (CC) gcc options: -lm -luuid -lxml2 -m64 -pthread

pmbench

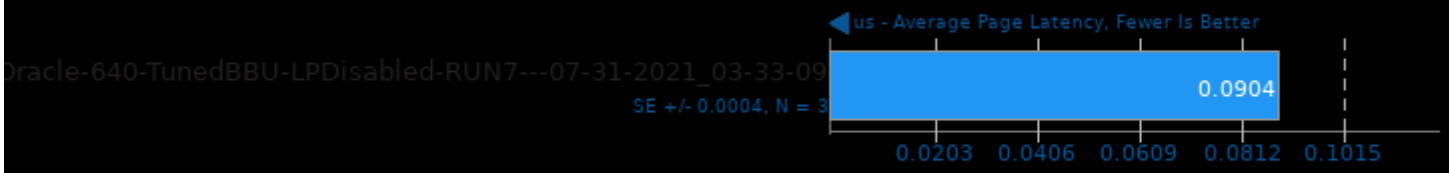
Concurrent Worker Threads: 1 - Read-Write Ratio: 100% Reads



1. (CC) gcc options: -lm -luuid -lxml2 -m64 -pthread

pmbench

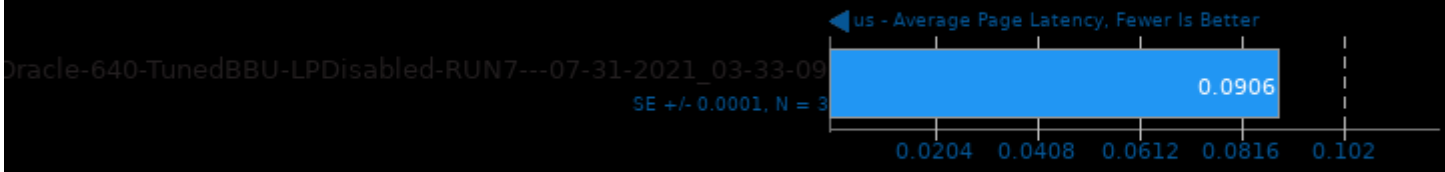
Concurrent Worker Threads: 16 - Read-Write Ratio: 50%



1. (CC) gcc options: -lm -luuid -lxml2 -m64 -pthread

pmbench

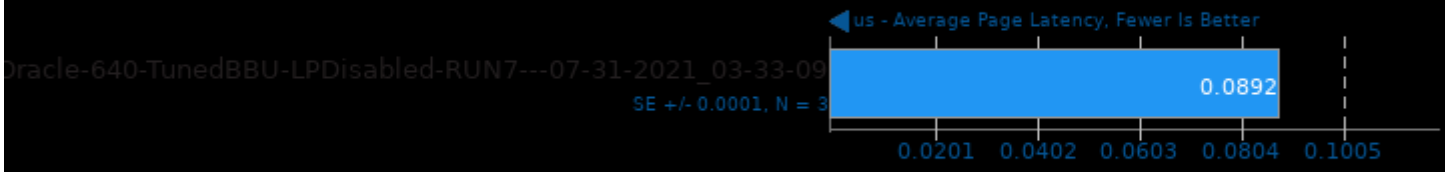
Concurrent Worker Threads: 4 - Read-Write Ratio: 50%



1. (CC) gcc options: -lm -luuid -lxml2 -m64 -pthread

pmbench

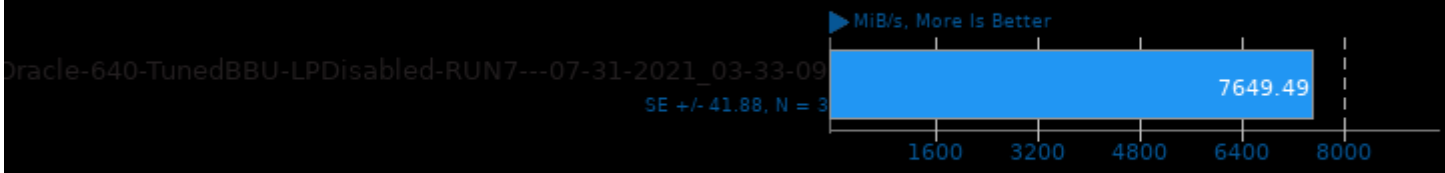
Concurrent Worker Threads: 1 - Read-Write Ratio: 50%



1. (CC) gcc options: -lm -luuid -lxml2 -m64 -pthread

MBW 2018-09-08

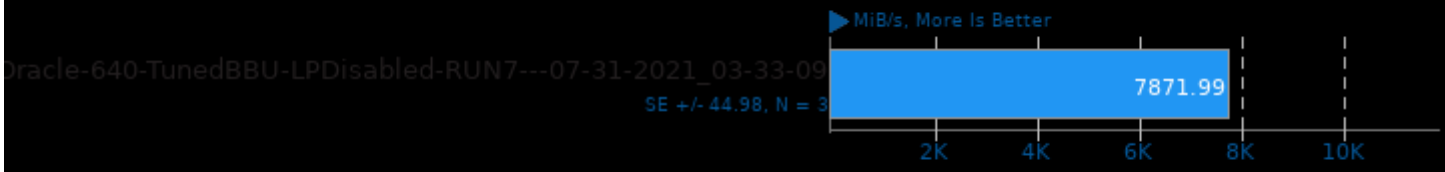
Test: Memory Copy, Fixed Block Size - Array Size: 8192 MiB



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

MBW 2018-09-08

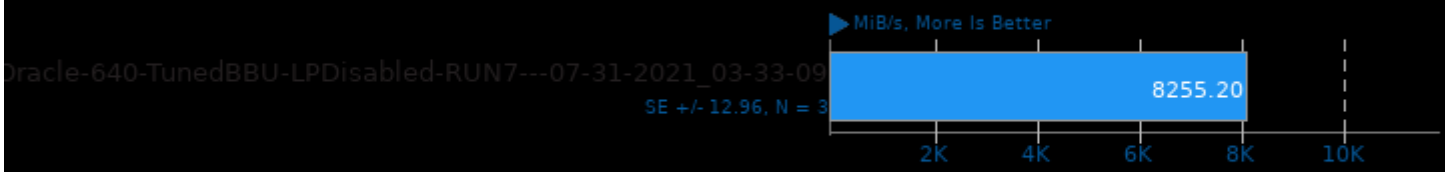
Test: Memory Copy, Fixed Block Size - Array Size: 4096 MiB



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

MBW 2018-09-08

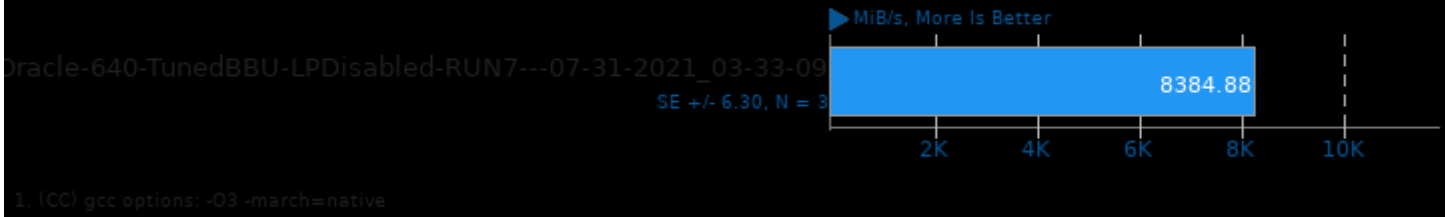
Test: Memory Copy, Fixed Block Size - Array Size: 1024 MiB



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

MBW 2018-09-08

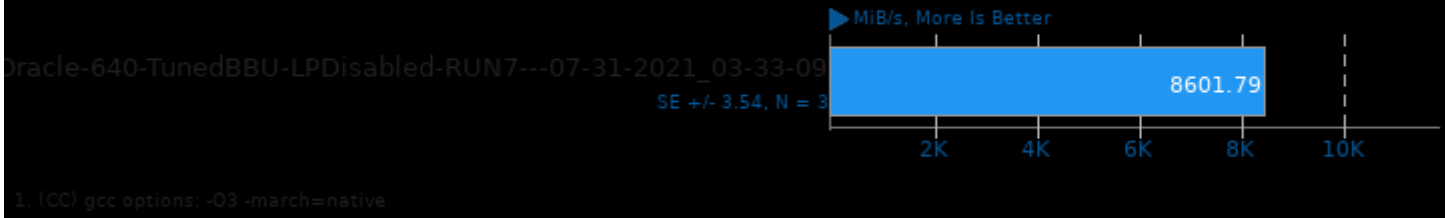
Test: Memory Copy, Fixed Block Size - Array Size: 512 MiB



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

MBW 2018-09-08

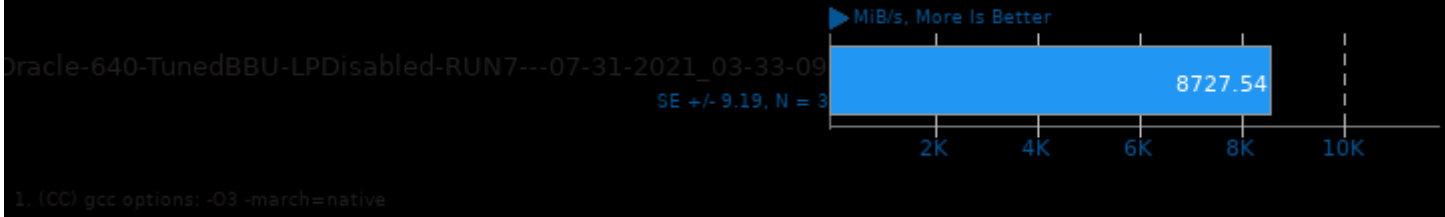
Test: Memory Copy, Fixed Block Size - Array Size: 128 MiB



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

MBW 2018-09-08

Test: Memory Copy - Array Size: 8192 MiB



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

MBW 2018-09-08

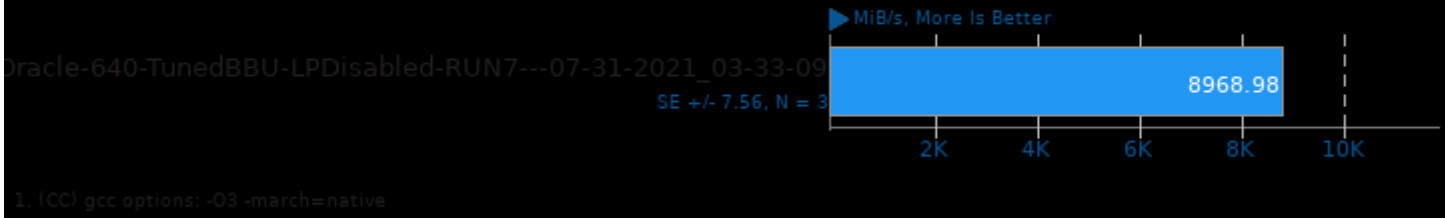
Test: Memory Copy - Array Size: 4096 MiB



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

MBW 2018-09-08

Test: Memory Copy - Array Size: 1024 MiB

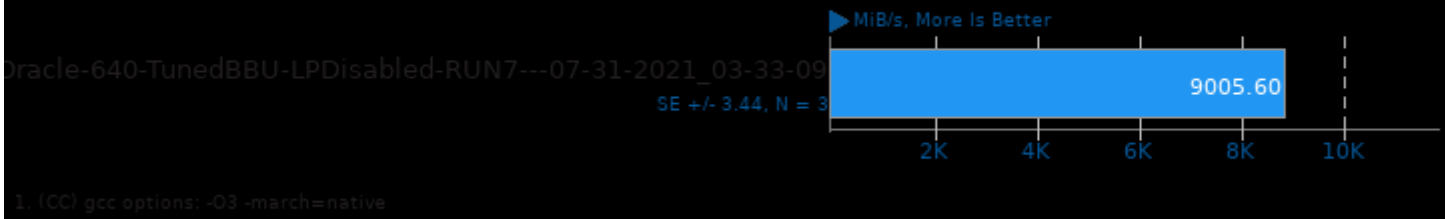


1. (CC) gcc options: -O3 -march=native

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MBW 2018-09-08

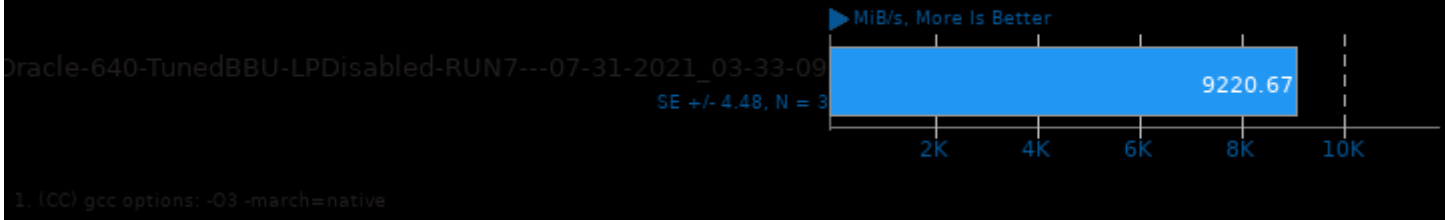
Test: Memory Copy - Array Size: 512 MiB



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

MBW 2018-09-08

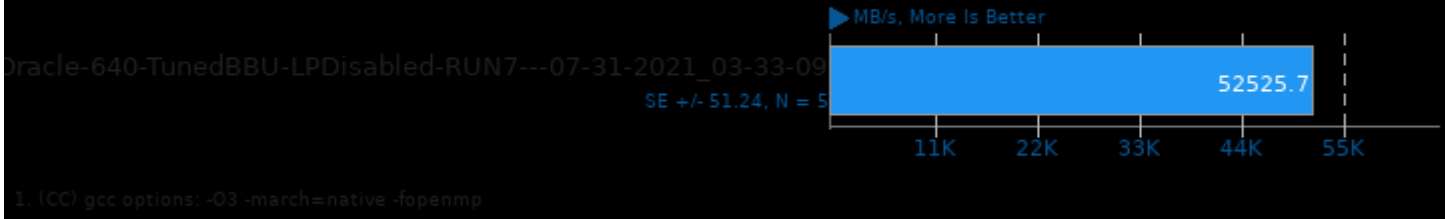
Test: Memory Copy - Array Size: 128 MiB



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

Stream 2013-01-17

Type: Add



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

Stream 2013-01-17

Type: Triad



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

Stream 2013-01-17

Type: Scale



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

Stream 2013-01-17

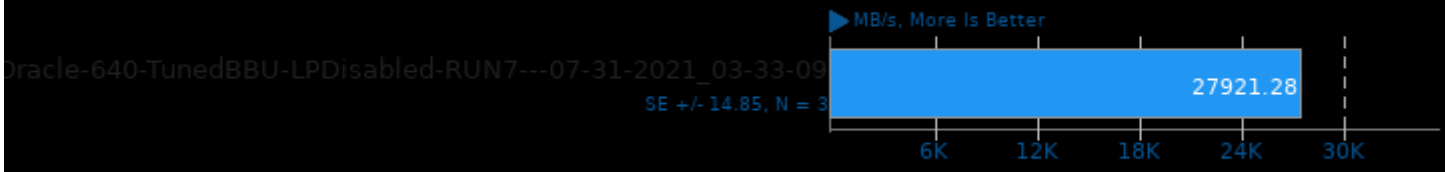
Type: Copy



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

RAMspeed SMP 3.5.0

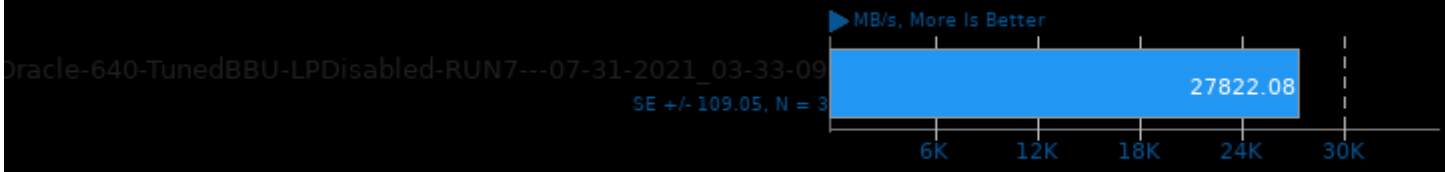
Type: Average - Benchmark: Floating Point



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

RAMspeed SMP 3.5.0

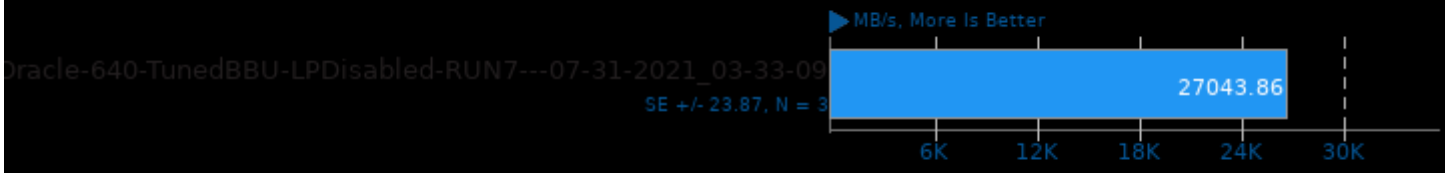
Type: Triad - Benchmark: Floating Point



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

RAMspeed SMP 3.5.0

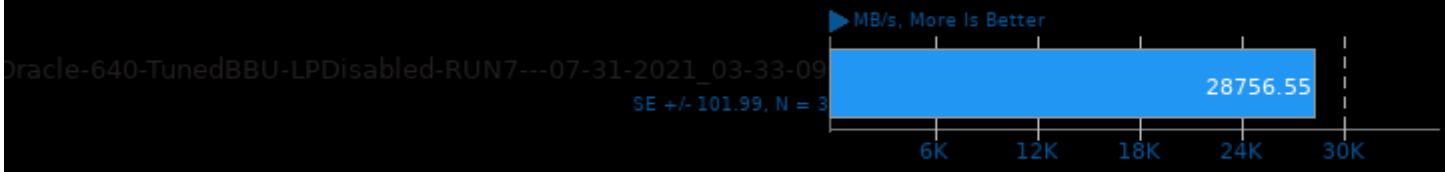
Type: Scale - Benchmark: Floating Point



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

RAMspeed SMP 3.5.0

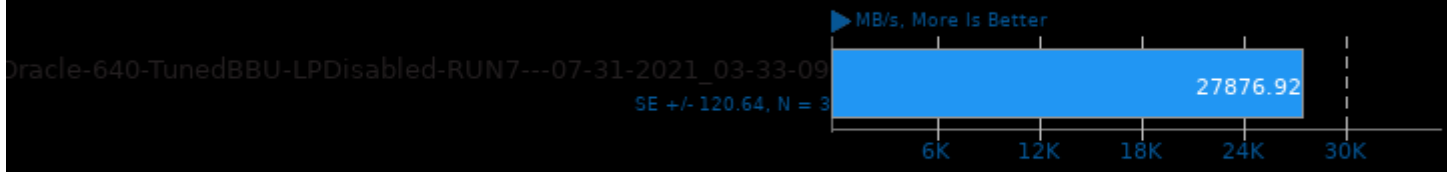
Type: Copy - Benchmark: Floating Point



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

RAMspeed SMP 3.5.0

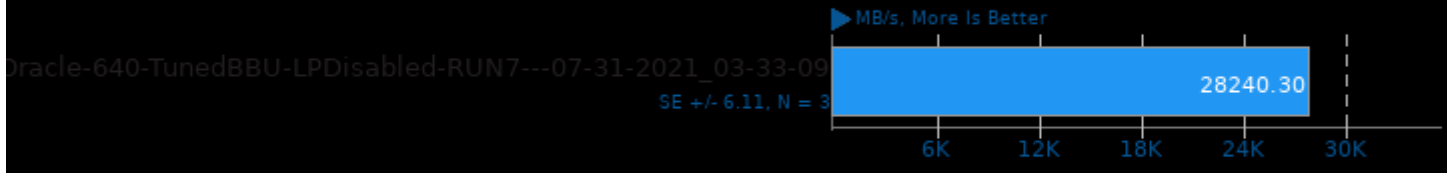
Type: Add - Benchmark: Floating Point



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

RAMspeed SMP 3.5.0

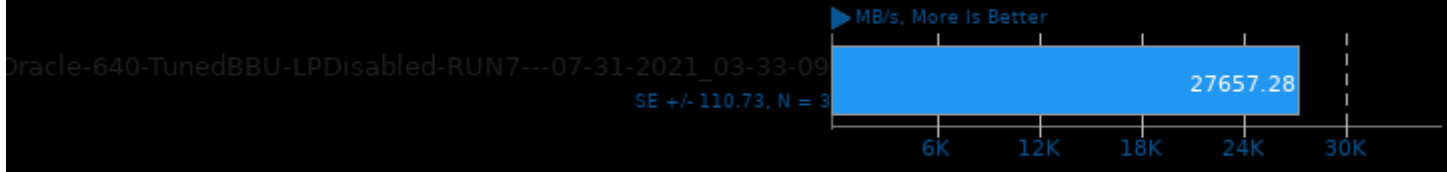
Type: Average - Benchmark: Integer



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

RAMspeed SMP 3.5.0

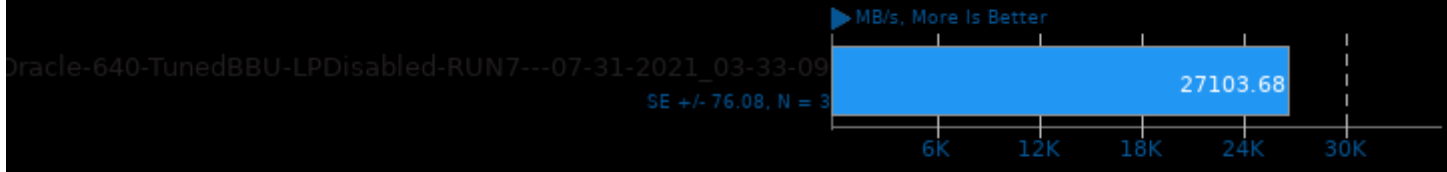
Type: Triad - Benchmark: Integer



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

RAMspeed SMP 3.5.0

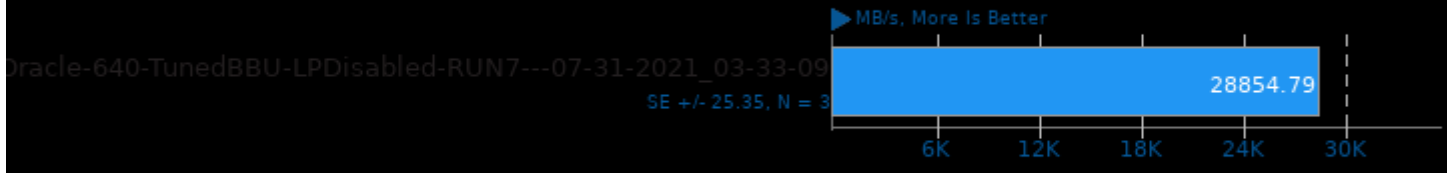
Type: Scale - Benchmark: Integer



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

RAMspeed SMP 3.5.0

Type: Copy - Benchmark: Integer

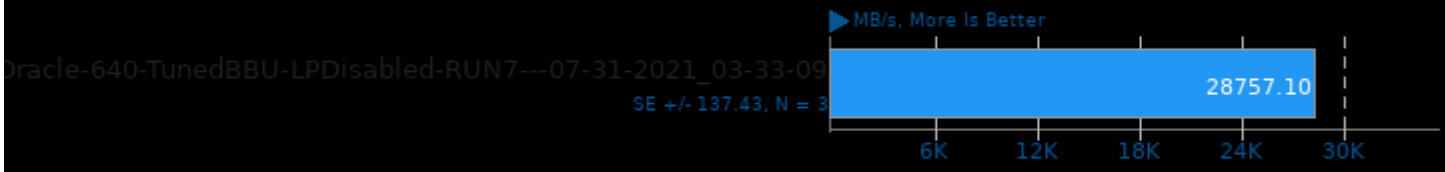


1. (CC) gcc options: -O3 -march=native

Oracle-640-TunedBBU-LPDisabled-RUN7

RAMspeed SMP 3.5.0

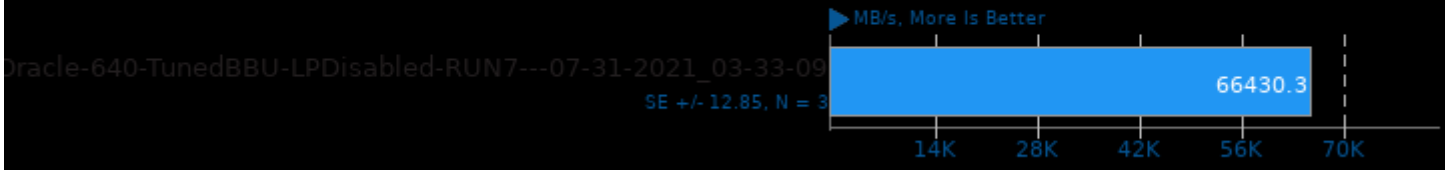
Type: Add - Benchmark: Integer



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

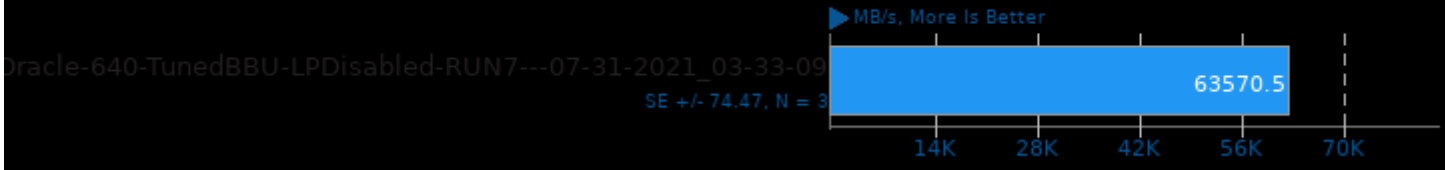
Intel Memory Latency Checker

Test: Peak Injection Bandwidth - Stream-Triad Like



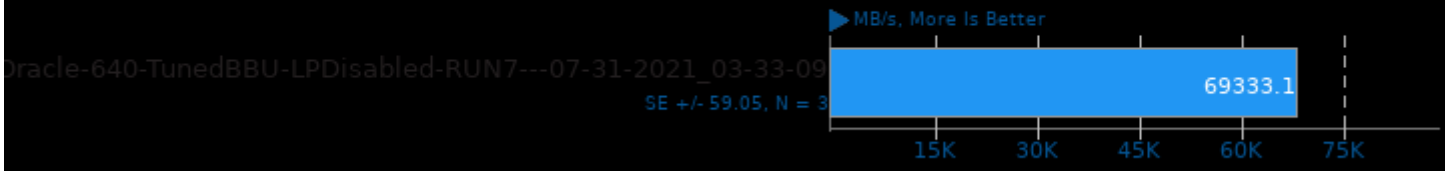
Intel Memory Latency Checker

Test: Peak Injection Bandwidth - 1:1 Reads-Writes



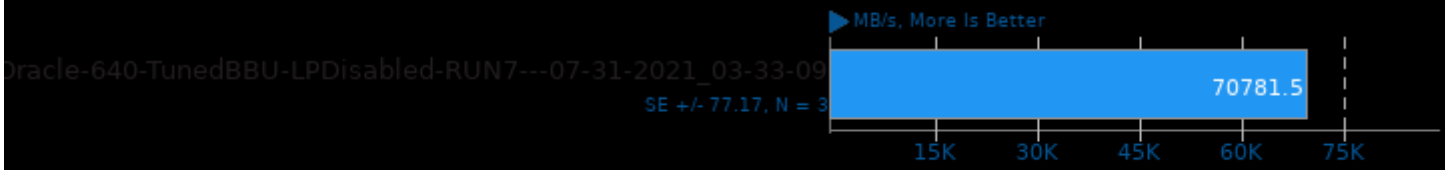
Intel Memory Latency Checker

Test: Peak Injection Bandwidth - 2:1 Reads-Writes



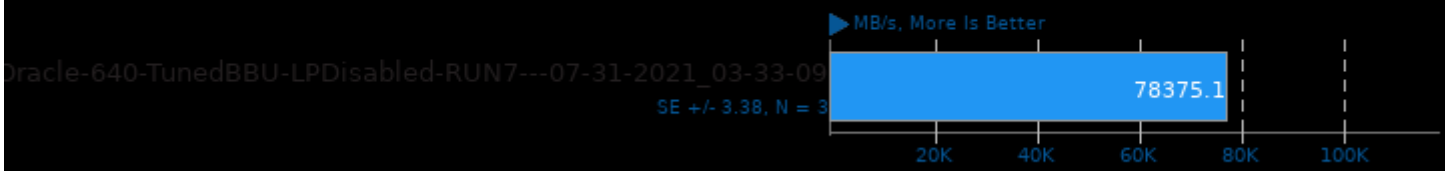
Intel Memory Latency Checker

Test: Peak Injection Bandwidth - 3:1 Reads-Writes



Intel Memory Latency Checker

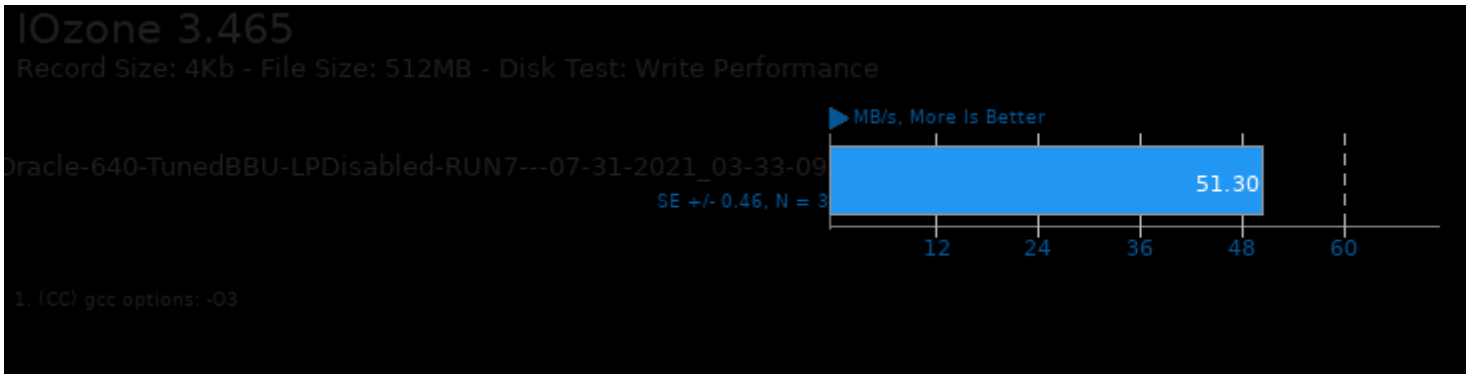
Test: Peak Injection Bandwidth - All Reads



Oracle-640-TunedBBU-LPDisabled-RUN7



Oracle-640-TunedBBU-LPDisabled-RUN7



This file was automatically generated via the Phoronix Test Suite benchmarking software on Thursday, 28 March 2024 04:34.