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s_20ms, sched_latency_ns_5ms, sched_latency_ns_1ms, sched_latency_ns_10ms, d

increased latency to 20 ms from 18 ms

sched_latency_ns_5ms: decrased latency to 5 ms from 18 ms

sched_latency_ns_1ms: decrased latency to 1 ms from 18 ms

sched_latency_ns_10ms: decrased latency to 10 ms from 18 ms

default_value_run: No tweaks to the Kernel Variables

Automated Executive Summary

latency_ns_20ms had the most wins, coming in first place for 66% of the tests.

Based on the geometric mean of all complete results, the fastest (latency_ns_20ms) was 2.216x the speed of the slowest (Ran with out-of-box config). latency_ns_5ms was 0.897x the speed of latency_ns_20ms, latency_ns_1ms was 0.979x the speed of latency_ns_5ms, latency_ns_10ms was 0.783x the speed of latency_ns_1ms, Ran with out-of-box config was 0.656x the speed of latency_ns_10ms.

Test Systems:

latency_ns_20ms

latency_ns_5ms

latency_ns_1ms

latency_ns_10ms

Ran with out-of-box config

Processor: Intel Core i5-1145G7 (4 Cores), Motherboard: Intel 440BX (6.00 BIOS), Chipset: Intel 440BX/ZX/DX, Memory: 8GB, Disk: 107GB VMware Virtual S, Graphics: VMware SVGA II, Audio: Ensoniq ES1371/ES1373, Network: Intel 82545EM

OS: Ubuntu 18.04, Kernel: 5.4.0-148-generic (x86_64), Desktop: GNOME Shell 3.28.4, Display Server: X Server 1.20.8, Compiler: GCC 7.5.0, File-System: ext4, Screen Resolution: 1718x878, System Layer: VMware

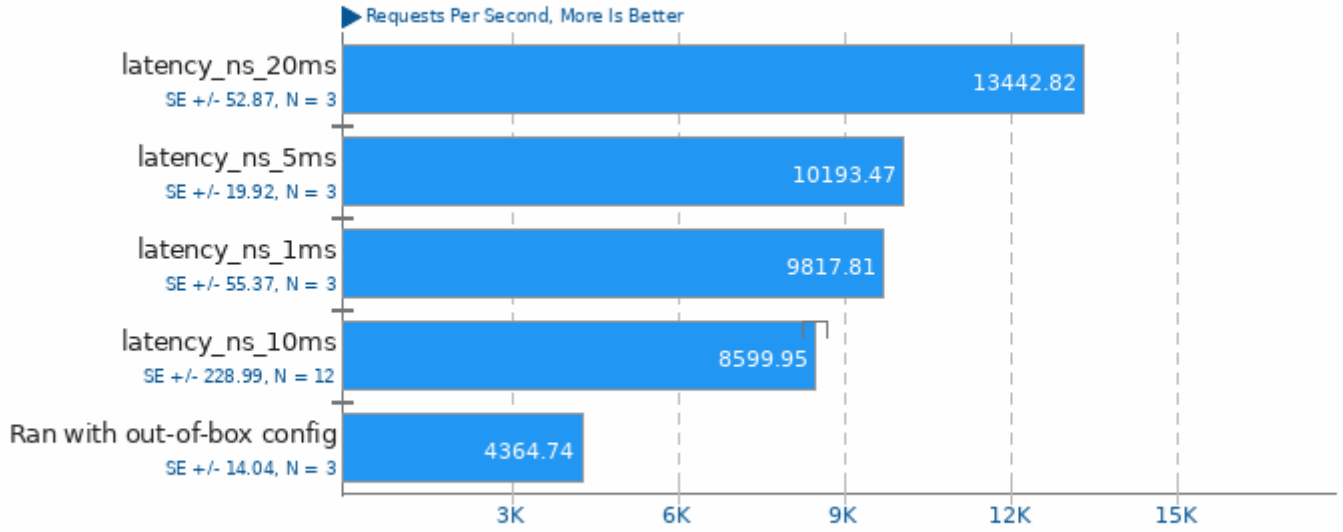
Kernel Notes: Transparent Huge Pages: madvise
Compiler Notes: --build=x86_64-linux-gnu --disable-vtable-verify --disable-werror --enable-bootstrap --enable-checking=release --enable-clocale=gnu --enable-default-pie --enable-gnu-unique-object --enable-languages=c,ada,c++,go,brig,d,fortran,objc,obj-c++ --enable-libmpx --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-multilib --enable-nls --enable-objc-gc=auto --enable-offload-targets=nvptx-none --enable-plugin --enable-shared --enable-threads=posix --host=x86_64-linux-gnu --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 --with-tune=generic --without-cuda-driver -v
Processor Notes: CPU Microcode: 0xffffffff
Security Notes: itlb_multihit: Not affected + l1tf: Mitigation of PTE Inversion + mds: Vulnerable: Clear buffers attempted no microcode; SMT Host state unknown + meltdown: Mitigation of PTI + mmio_stale_data: Not affected + retbleed: Mitigation of IBRS + 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 IBRS IBPB: conditional RSB filling PBRSB-eIBRS: Not affected + srbds: Not affected + tsx_async_abort: Not affected

	latency_ns_20ms	latency_ns_5ms	latency_ns_1ms	latency_ns_10ms	Ran with out-of-box
Apache HTTP Server - 4 (Reqs/sec)	**13443**	10193	9818	8600	**4365**
Normalized	100%	75.83%	73.03%	63.97%	32.47%
Standard Deviation	0.7%	0.3%	1%	9.2%	0.6%
Apache HTTP Server - 20 (Reqs/sec)	15299	**17253**	15112	10665	**5354**
Normalized	88.68%	100%	87.59%	61.82%	31.03%
Standard Deviation	6.6%	0.3%	2.2%	0.3%	0.5%
Apache HTTP Server - 100 (Reqs/sec)	17833	**17945**	16653	**13050**	13568
Normalized	99.37%	100%	92.8%	72.72%	75.61%
Standard Deviation	6.6%	0.7%	1.5%	1.9%	25.9%
Apache HTTP Server - 200 (Reqs/sec)	**19266**	18351	17696	**12893**	15664
Normalized	100%	95.25%	91.85%	66.92%	81.3%
Standard Deviation	0.2%	0.6%	2.7%	1.7%	8.5%

Apache HTTP Server - 500 (Reqs/sec)	**18045**	13820	15713	12317	**6844**
Normalized	100%	76.59%	87.08%	68.26%	37.93%
Standard Deviation	0.8%	13.7%	0.2%	2.2%	46.3%
Apache HTTP Server - 1000 (Reqs/sec)	**17940**	14932	15336	12733	**5685**
Normalized	100%	83.23%	85.48%	70.97%	31.69%
Standard Deviation	0.8%	0.5%	0.9%	11.7%	1.1%

Apache HTTP Server 2.4.56

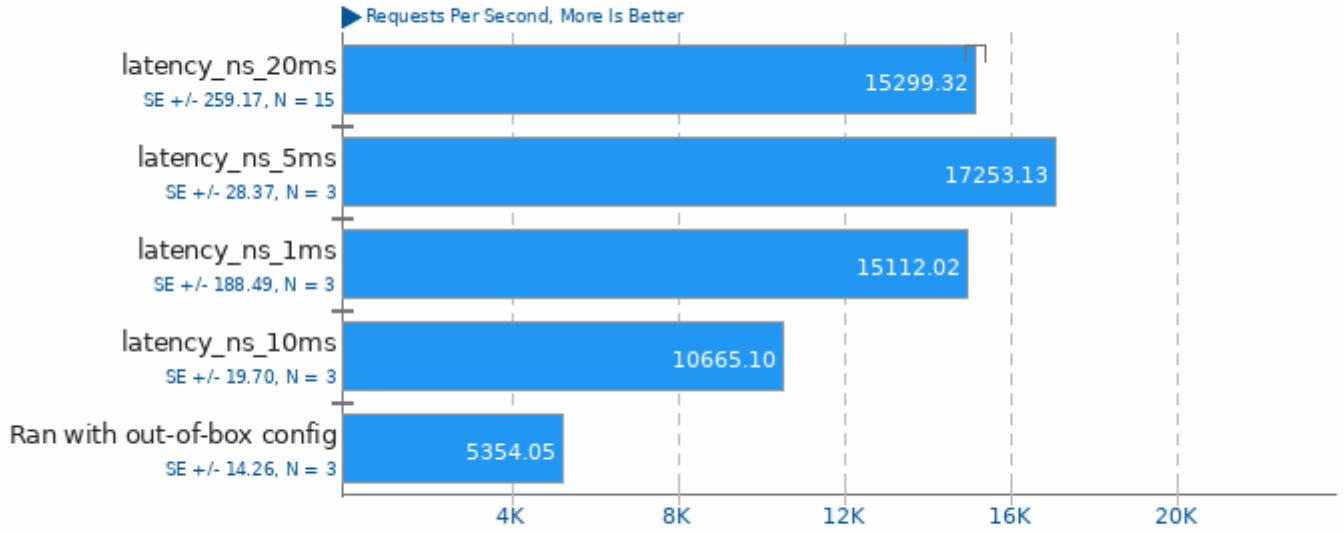
Concurrent Requests: 4



1. (CC) gcc options: -lluajit-5.1 -lm -lssl -lcrypto -lpthread -ldl -std=c99 -O2

Apache HTTP Server 2.4.56

Concurrent Requests: 20

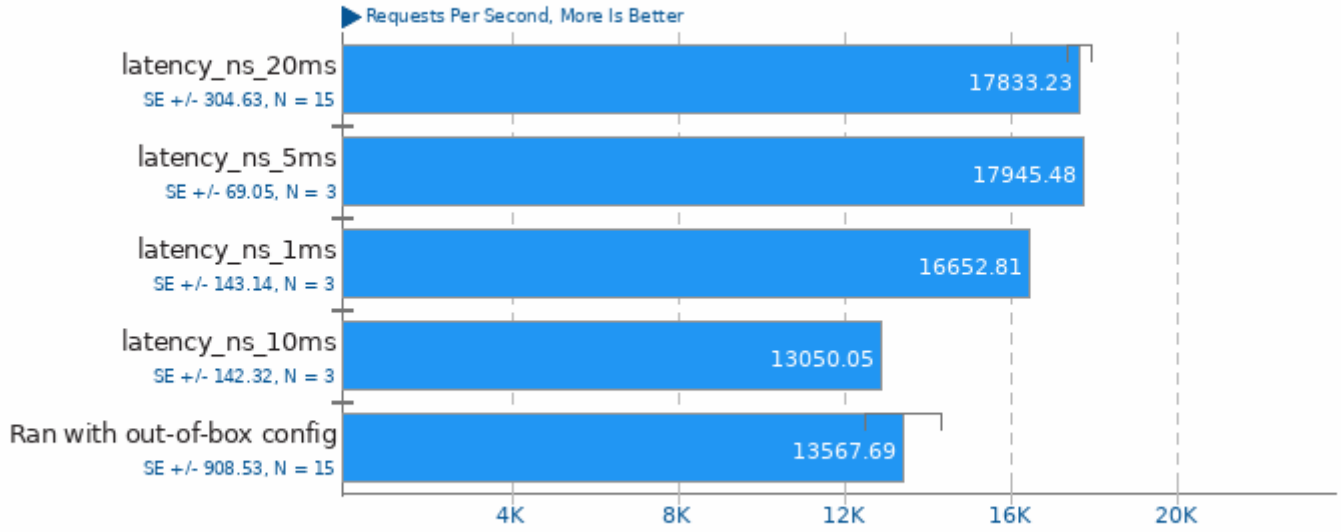


1. (CC) gcc options: -lluajit-5.1 -lm -lssl -lcrypto -lpthread -ldl -std=c99 -O2

Phoronix Test Suite

Apache HTTP Server 2.4.56

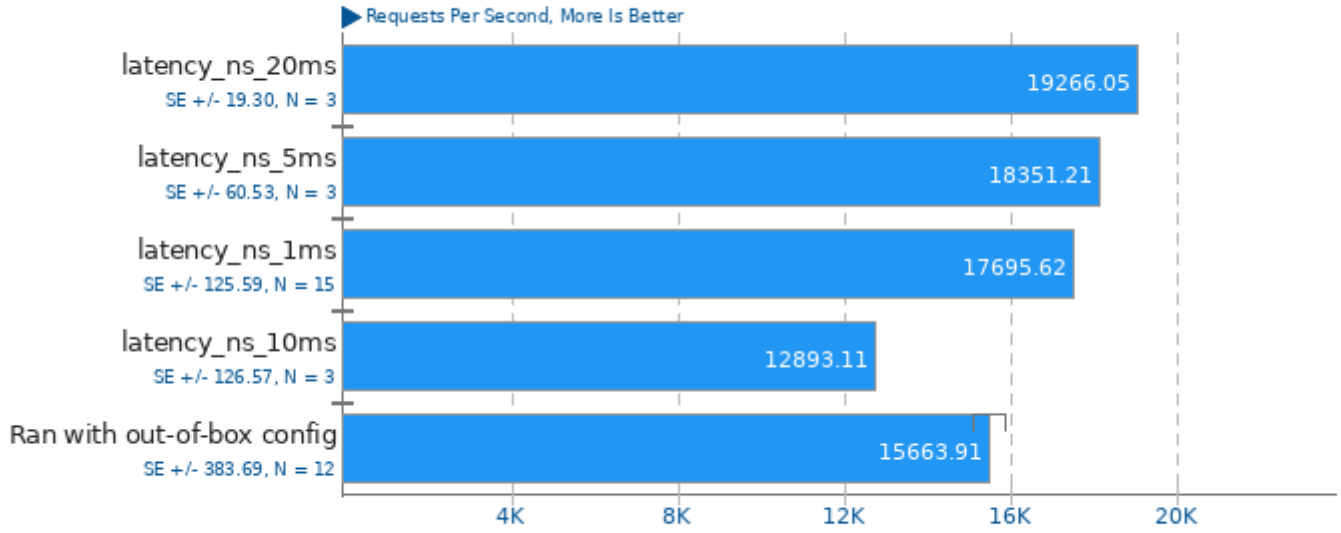
Concurrent Requests: 100



1. (CC) gcc options: -lluajit-5.1 -lm -lssl -lcrypto -lpthread -ldl -std=c99 -O2

Apache HTTP Server 2.4.56

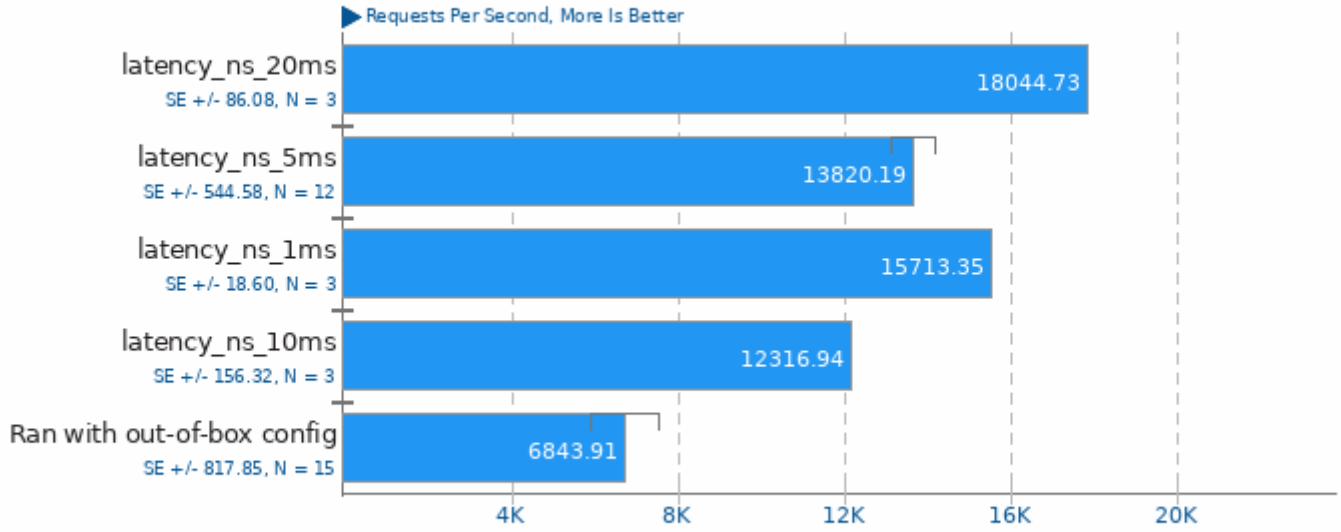
Concurrent Requests: 200



1. (CC) gcc options: -lluajit-5.1 -lm -lssl -lcrypto -lpthread -ldl -std=c99 -O2

Apache HTTP Server 2.4.56

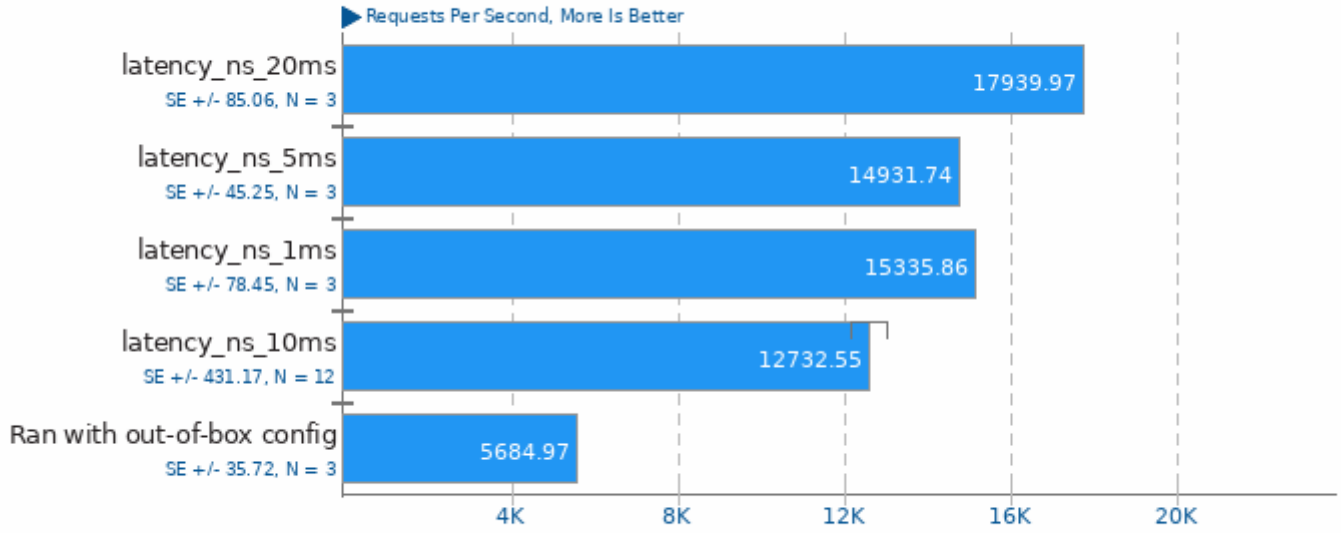
Concurrent Requests: 500



1. (CC) gcc options: -lluajit-5.1 -lm -lssl -lcrypto -lpthread -ldl -std=c99 -O2

Apache HTTP Server 2.4.56

Concurrent Requests: 1000



1. (CC) gcc options: -lluajit-5.1 -lm -lssl -lcrypto -lpthread -ldl -std=c99 -O2

This file was automatically generated via the Phoronix Test Suite benchmarking software on Saturday, 6 May 2023 19:07.