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singlemultiplegraphics

Intel Core i7-8700 testing with a Dell 0654JC (1.2.22 BIOS) and Intel UHD 630 3GB on Ubuntu 20.04 via the Phoronix Test Suite.

Automated Executive Summary

ds5060-xml-large had the most wins, coming in first place for 50% of the tests.

Based on the geometric mean of all complete results, the fastest (ds5060-xml-large) was 1.086x the speed of the slowest (ds5060).

Test Systems:

ds5060

ds5060-xml-large

Processor: Intel Core i7-8700 @ 4.60GHz (6 Cores / 12 Threads), Motherboard: Dell 0654JC (1.2.22 BIOS), Chipset:

Intel Cannon Lake PCH, Memory: 32GB, Disk: KXG60ZNV512G NVMe TOSHIBA 512GB + 2000GB Samsung SSD 860, Graphics: Intel UHD 630 3GB (1200MHz), Audio: Realtek ALC3234, Monitor: DELL U2715H + DELL U2719DC, Network: Intel I219-V + Intel-AC 9560

OS: Ubuntu 20.04, Kernel: 5.11.0-25-generic (x86_64), Display Server: X Server 1.20.11, Display Driver: modesetting 1.20.11, OpenGL: 4.6 Mesa 21.0.3, Compiler: GCC 9.3.0 + Clang 10.0.0-4ubuntu1, File-System: ext4, Screen Resolution: 4000x2560

Processor Notes: Scaling Governor: intel_pstate powersave - CPU Microcode: 0xea
 Security Notes: itlb_multihit: KVM: Mitigation of VMX disabled + 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/swaps barriers and __user pointer sanitization + spectre_v2: Mitigation of Full generic retpoline IBPB: conditional IBRS_FW STIBP: conditional RSB filling + srbs: Mitigation of Microcode + tsx_async_abort: Mitigation of Clear buffers; SMT vulnerable

	ds5060	ds5060-xml-large
NGINX Benchmark - S.W.P.S (Req/sec)	35164	
Standard Deviation	0.1%	
Node.js Express HTTP Load Test (Req/sec)	9223	
Standard Deviation	2.9%	
System Libxml2 Parsing - 5 KB (ms)	13	11
Normalized	84.62%	100%
Standard Deviation	43.6%	60.6%
System Libxml2 Parsing - 500 KB (ms)	356	357
Normalized	100%	99.72%
Standard Deviation	4.5%	2%
System Libxml2 Parsing - 2 MB (ms)		1406
Standard Deviation		0.5%
CppPerformanceBenchmarks - Atol (sec)	62.857	
Standard Deviation	0.2%	
CppPerformanceBenchmarks - Ctype (sec)	30.201	
Standard Deviation	0.1%	
CppPerformanceBenchmarks - Math Library (sec)	303.926	
Standard Deviation	0.1%	
CppPerformanceBenchmarks - Rand Numbers (sec)	1043	
Standard Deviation	0.1%	
CppPerformanceBenchmarks - Stepanov Vector (sec)	86.703	
Standard Deviation	0.1%	
CppPerformanceBenchmarks - Function Objects (sec)	13.940	
Standard Deviation	0.2%	
CppPerformanceBenchmarks - S.A (sec)	33.255	
Standard Deviation	0.1%	
R Benchmark (sec)	0.6600	
Standard Deviation	1.1%	

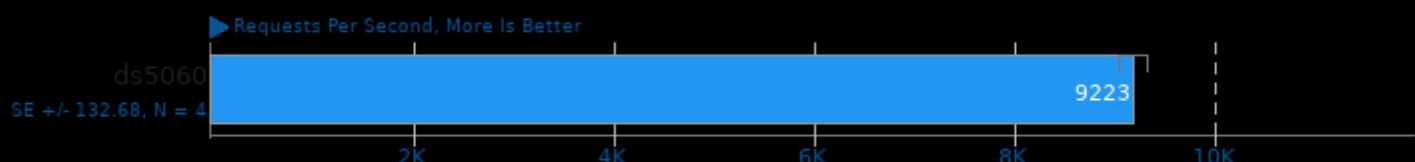
NGINX Benchmark 1.9.9

Static Web Page Serving



1. (CC) gcc options: -lpthread -lcrypt -lcrypto -lz -O3 -march=native

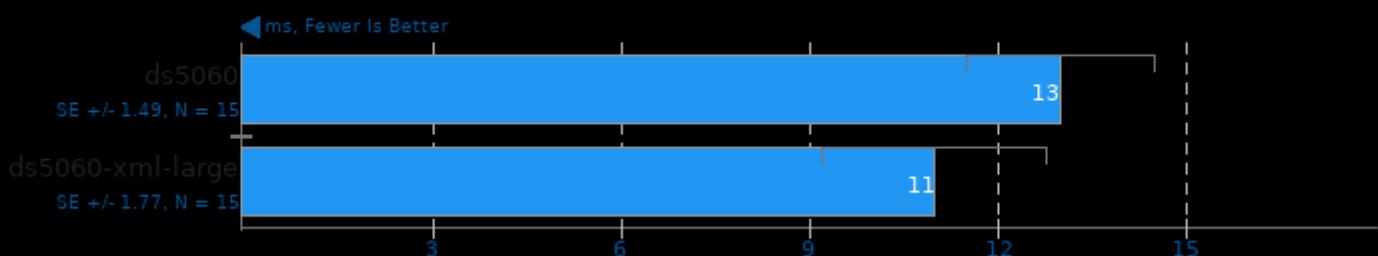
Node.js Express HTTP Load Test



1. Nodejs
v10.19.0

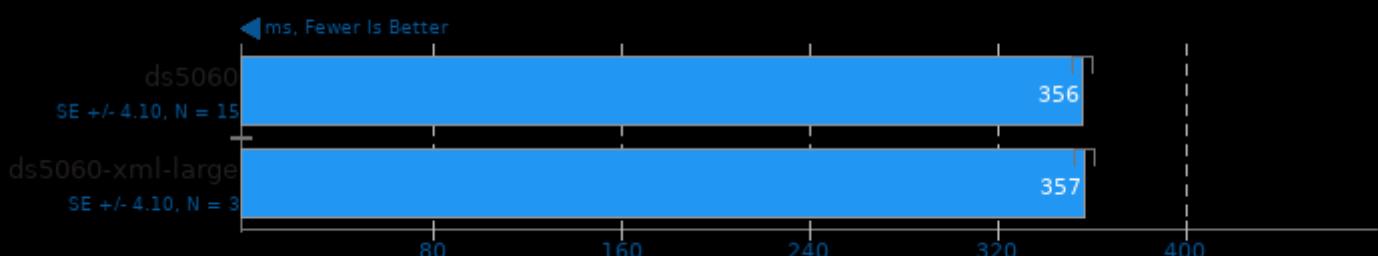
System Libxml2 Parsing

Filesize: 5 KB



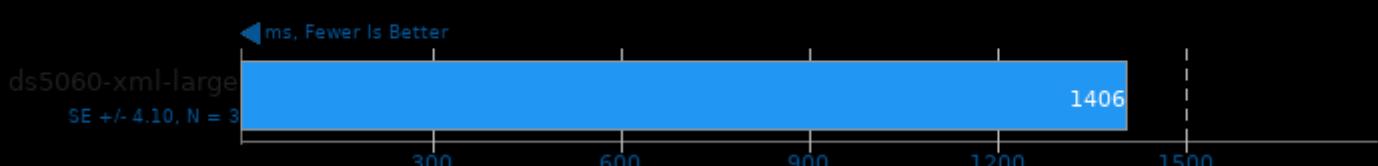
System Libxml2 Parsing

Filesize: 500 KB



System Libxml2 Parsing

Filesize: 2 MB



CppPerformanceBenchmarks 9

Test: Atol



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

CppPerformanceBenchmarks 9

Test: Ctype



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

CppPerformanceBenchmarks 9

Test: Math Library



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

CppPerformanceBenchmarks 9

Test: Random Numbers



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

CppPerformanceBenchmarks 9

Test: Stepanov Vector



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

CppPerformanceBenchmarks 9

Test: Function Objects



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

CppPerformanceBenchmarks 9

Test: Stepanov Abstraction



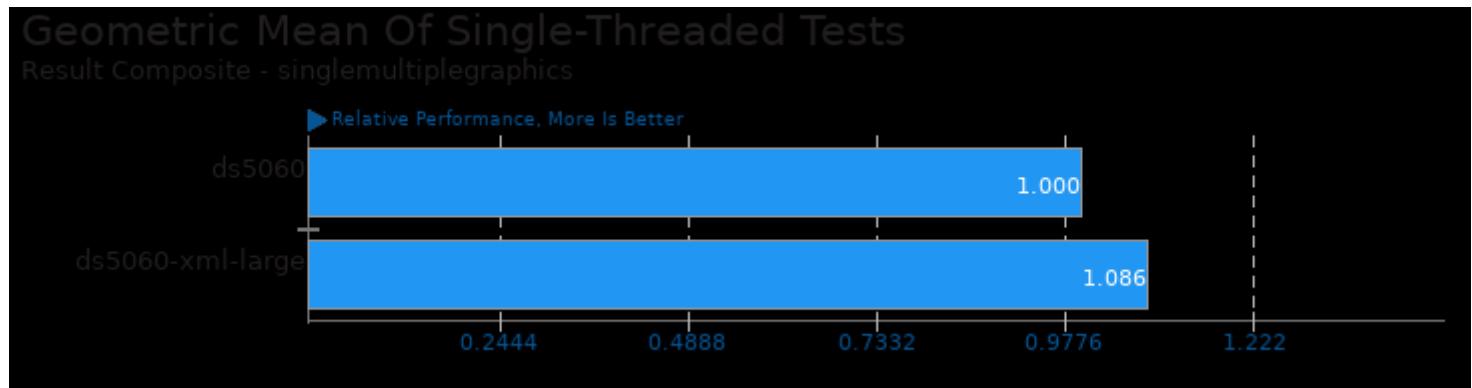
1. (CXX) g++ options: -std=c++11 -O3

R Benchmark



1. R scripting front-end version 4.0.3 (2020-10-10)

These geometric means are based upon test groupings / test suites for this result file.



Geometric mean based upon tests: pts/node-express-loadtest, pts/rbenchmark, pts/system-libxml2, pts/cpp-perf-bench and pts/nginx

This file was automatically generated via the Phoronix Test Suite benchmarking software on Thursday, 28 March 2024 22:02.