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Compiler comparision gcc/open64/llvm-gcc

AMD Phenom II X6 1090T testing with a Gigabyte GA-870A-UD3 and NVIDIA GeForce GTS 450 1024MB on Debian testing via the Phoronix Test Suite.

Automated Executive Summary

open64 had the most wins, coming in first place for 71% of the tests.

Based on the geometric mean of all complete results, the fastest (open64 +omp) was 1.671x the speed of the slowest (llvm-gcc). llvm-gcc +omp was 0.921x the speed of open64 +omp, gcc +omp was 0.955x the speed of llvm-gcc +omp, open64 was 0.887x the speed of gcc +omp, gcc was 0.877x the speed of open64, llvm-gcc was 0.873x the speed of gcc.

Test Systems:

gcc

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gcc +omp

llvm-gcc

llvm-gcc +omp

open64

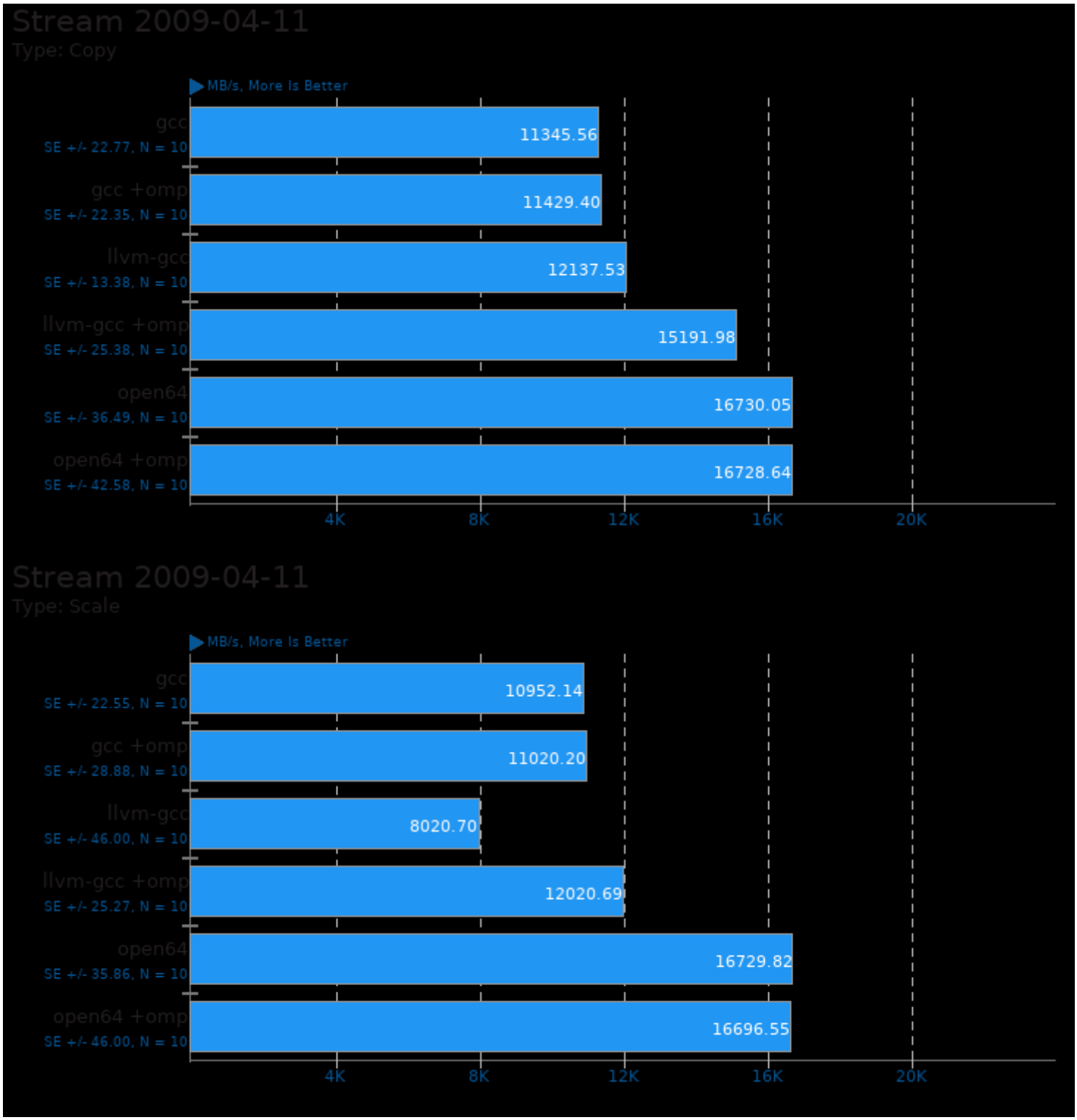
open64 +omp

Processor: AMD Phenom II X6 1090T @ 3.82GHz (6 Cores), Motherboard: Gigabyte GA-870A-UD3, Chipset: ATI RX780/RX790, Memory: 16384MB, Disk: 2 x 1000GB Western Digital WDC WD1002FAEX-0 + 1000GB Western Digital WDC WD10EACS-00D + 2 x 1000GB Western Digital WDC WD10EACS-14Z + 2 x 25GB OCZ REVODRIVE, Graphics: NVIDIA GeForce GTS 450 1024MB (830/1804MHz), Audio: Creative Labs SB Audigy, Network: Realtek RTL8111/8168B

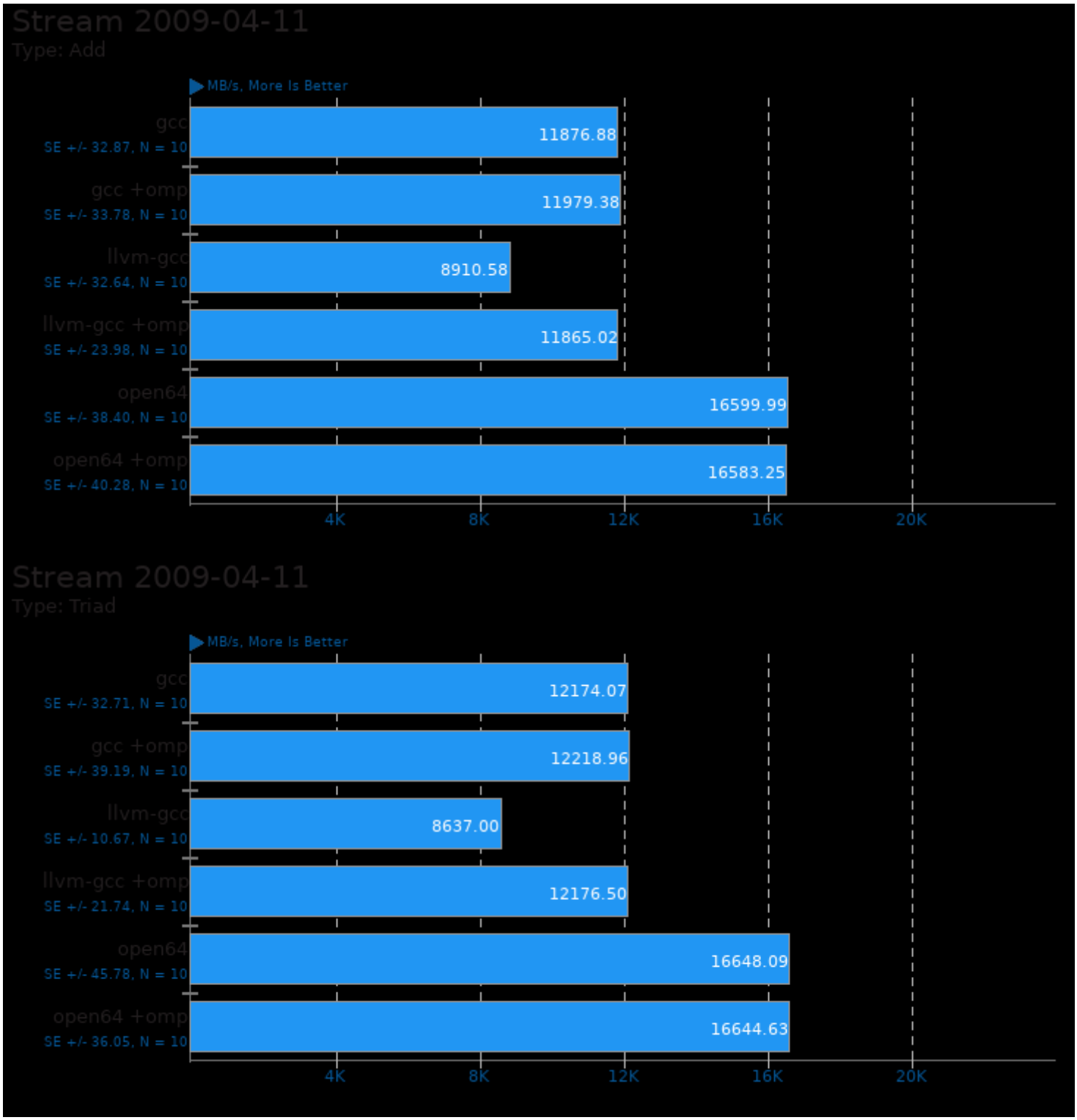
OS: Debian testing, Kernel: 3.0.4 (x86_64), Display Server: X Server 1.10.1, Display Driver: NVIDIA 280.13, OpenGL: 4.1.0 NVIDIA 280.13, Compiler: GCC 4.6.1, File-System: reiserfs, Screen Resolution: 3840x1080

	gcc	gcc +omp	llvm-gcc	llvm-gcc	open64	open64 +omp
Stream - Copy (MB/s)	**11346**	11429	12138	15192	**16730**	16729
Normalized	67.82%	68.32%	72.55%	90.81%	100%	99.99%
Standard Deviation	0.6%	0.6%	0.3%	0.5%	0.7%	0.8%
Stream - Scale (MB/s)	10952	11020	**8021**	12021	**16730**	16697
Normalized	65.46%	65.87%	47.94%	71.85%	100%	99.8%
Standard Deviation	0.7%	0.8%	1.8%	0.7%	0.7%	0.9%
Stream - Add (MB/s)	11877	11979	**8911**	11865	**16600**	16583
Normalized	71.55%	72.16%	53.68%	71.48%	100%	99.9%
Standard Deviation	0.9%	0.9%	1.2%	0.6%	0.7%	0.8%
Stream - Triad (MB/s)	12174	12219	**8637**	12177	**16648**	16645
Normalized	73.13%	73.4%	51.88%	73.14%	100%	99.98%
Standard Deviation	0.8%	1%	0.4%	0.6%	0.9%	0.7%
John The Ripper - Traditional DES (Real C/S)	**2783000**	2800000	2990333	2994667	**3328333**	3326000
Normalized	83.62%	84.13%	89.84%	89.97%	100%	99.93%
Standard Deviation	1.1%	0.2%	0.7%	1.4%	0%	0%
John The Ripper - MD5 (Real C/S)	17218	**17223**	16463	16462	**10018**	10024
Normalized	99.97%	100%	95.59%	95.58%	58.17%	58.2%
Standard Deviation	0.1%	0.1%	0.3%	0.2%	0.2%	0%
John The Ripper - Blowfish (Real C/S)	1133	**6322**	1025	5945	**945**	5353
Normalized	17.92%	100%	16.21%	94.04%	14.95%	84.67%
Standard Deviation	0.1%	0.9%	0.3%	0.3%	0.2%	0.2%

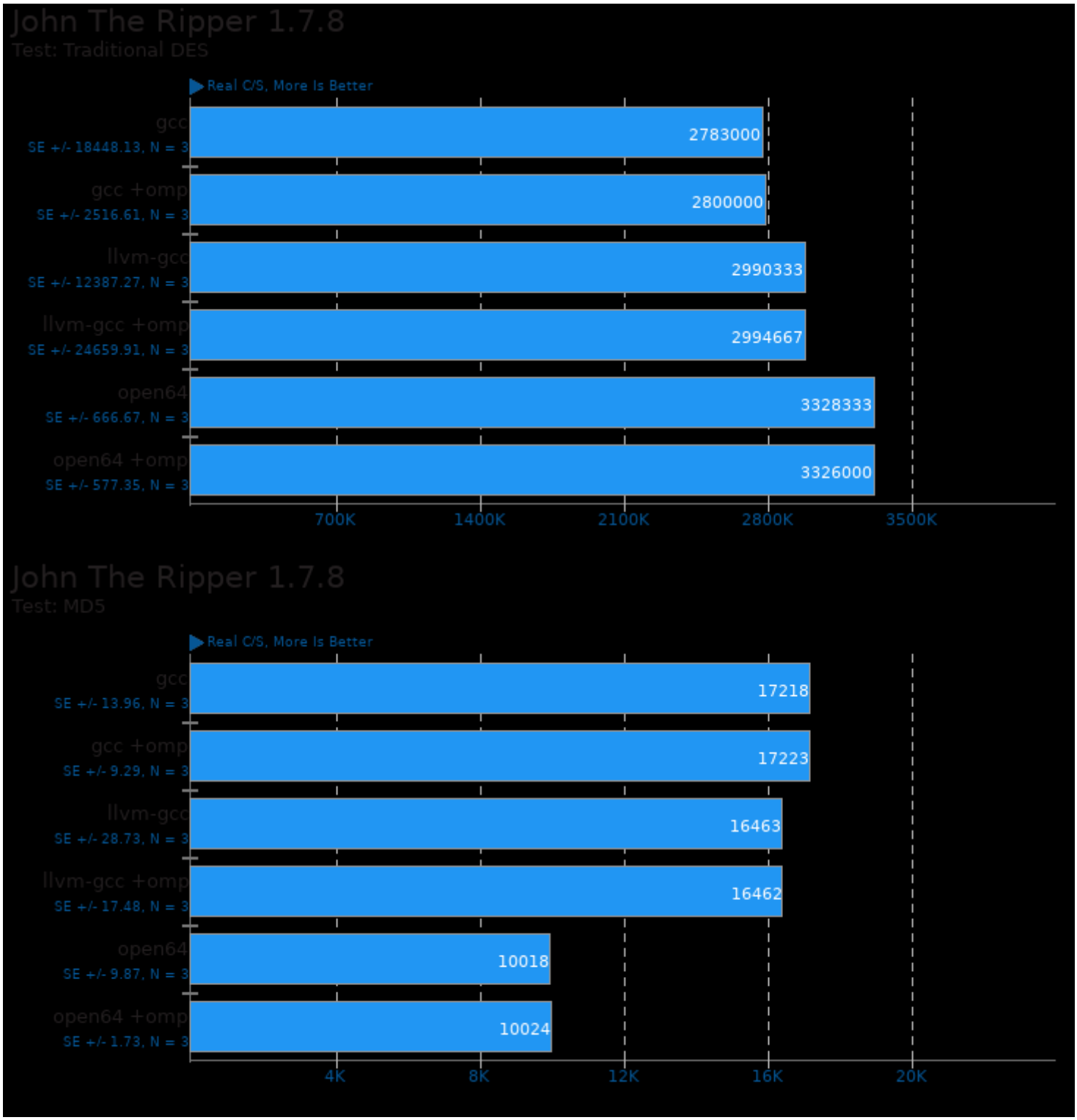
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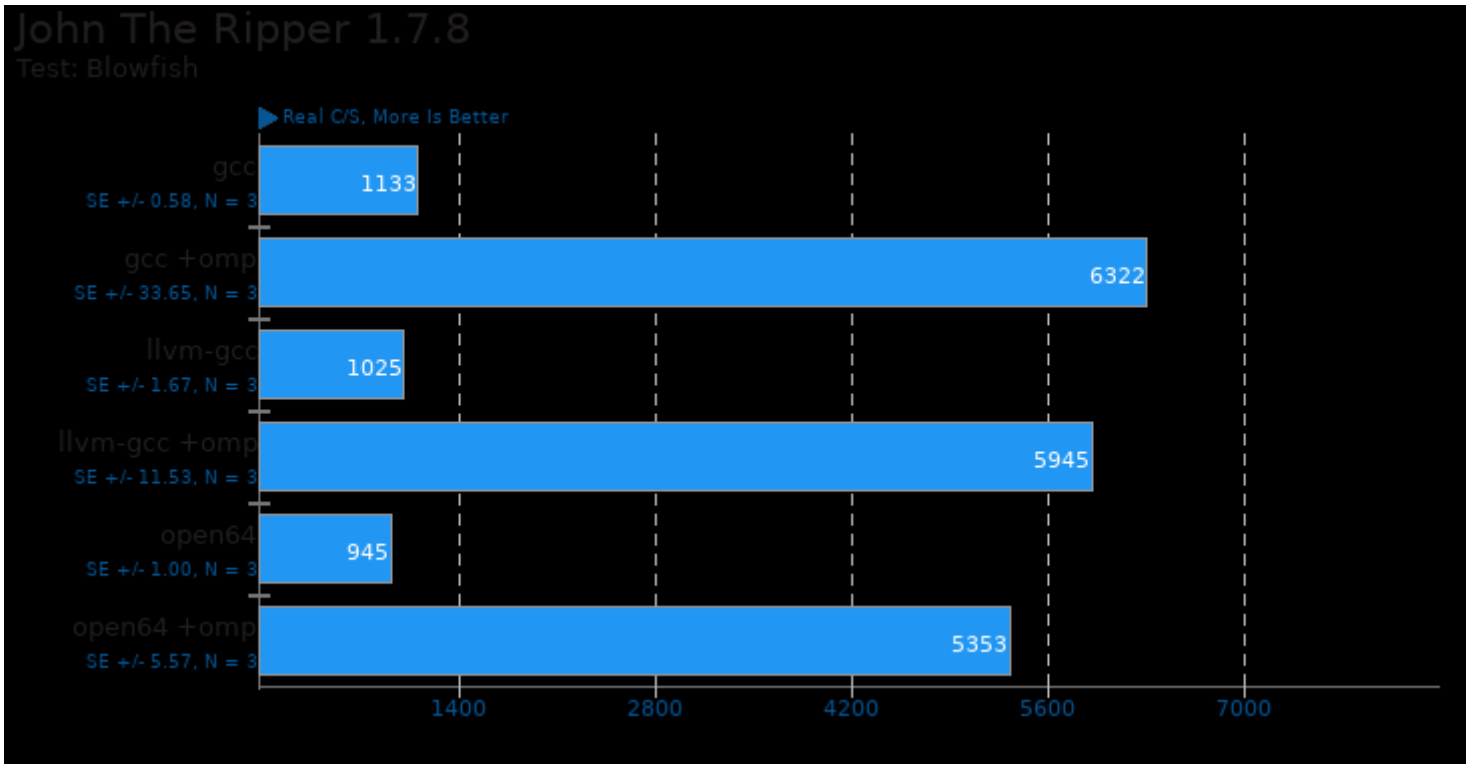
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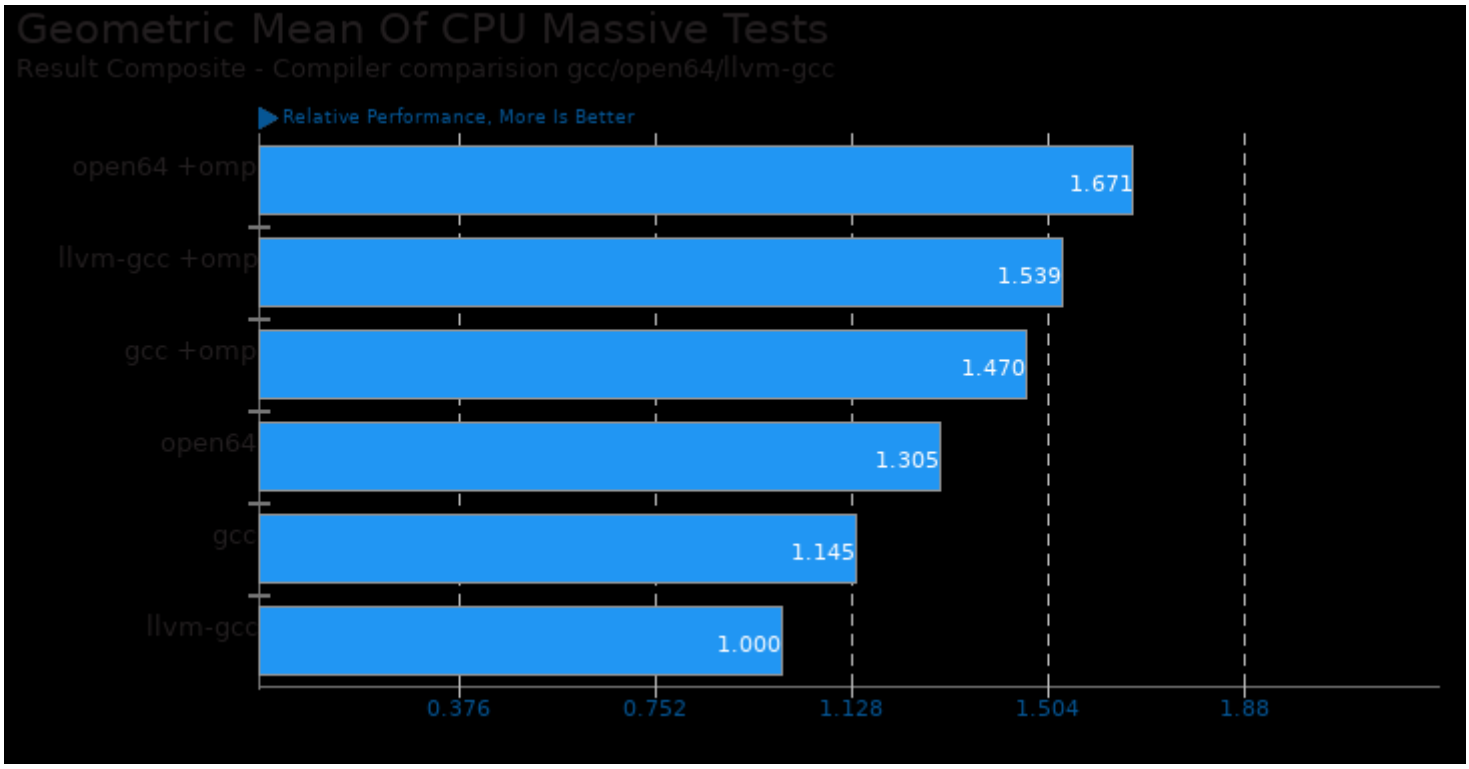


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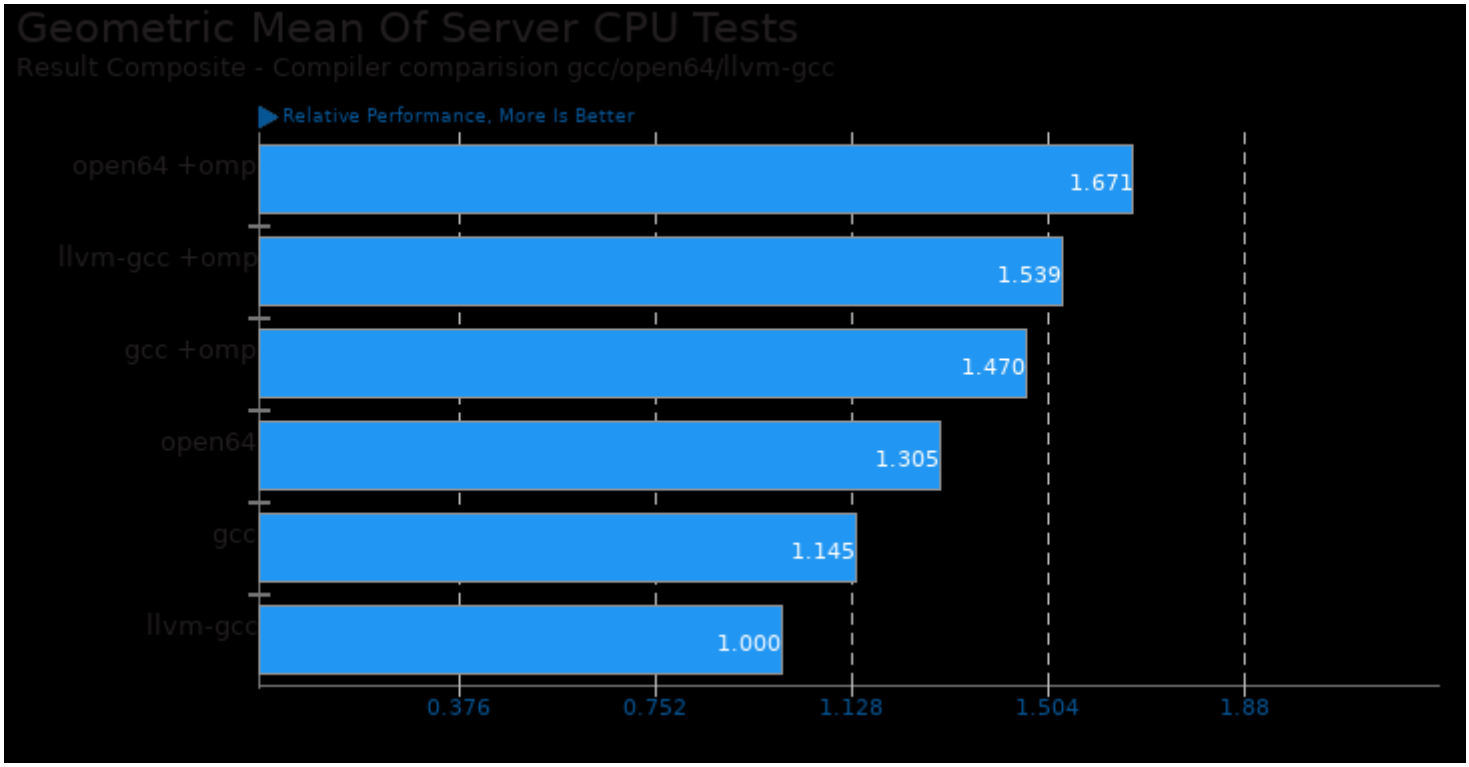


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These geometric means are based upon test groupings / test suites for this result file.



Geometric mean based upon tests: pts/john-the-ripper and pts/stream



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This file was automatically generated via the Phoronix Test Suite benchmarking software on Thursday, 28 March 2024 20:46.