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LZ4 macOS

Intel Core i7-8700B testing with a Apple Mac mini and Intel UHD 630 2GB on macOS 11.0.1 via the Phoronix Test Suite.

Automated Executive Summary

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

Based on the geometric mean of all complete results, the fastest (2) was 1.007x the speed of the slowest (1). 3 was 0.997x the speed of 2 and 1 was 0.996x the speed of 3.

Test Systems:

1

2

3

LZ4 macOS

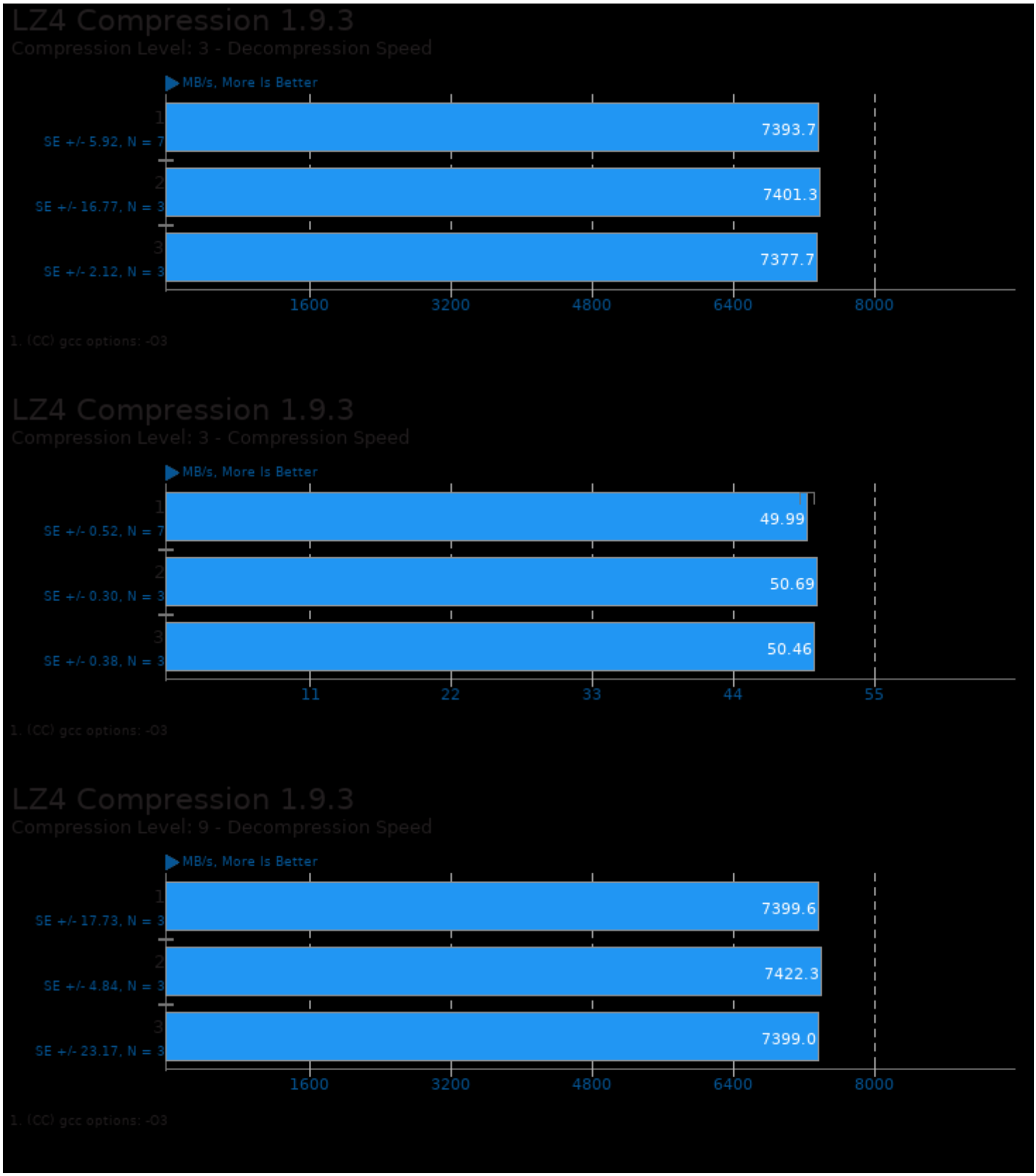
Processor: Intel Core i7-8700B @ 3.20GHz (6 Cores / 12 Threads), Motherboard: Apple Mac mini, Memory: 2 x 4 GB DDR4-2667MHz, Disk: 234GB, Graphics: Intel UHD 630 2GB, Monitor: ASUS VP28U

OS: macOS 11.0.1, Kernel: 20.1.0 (x86_64), OpenCL: OpenCL 1.2 (Oct 29 2020 19:50:08), Compiler: GCC 4.2.1 + Clang 11.0.0, File-System: APFS, Screen Resolution: 3840x2160

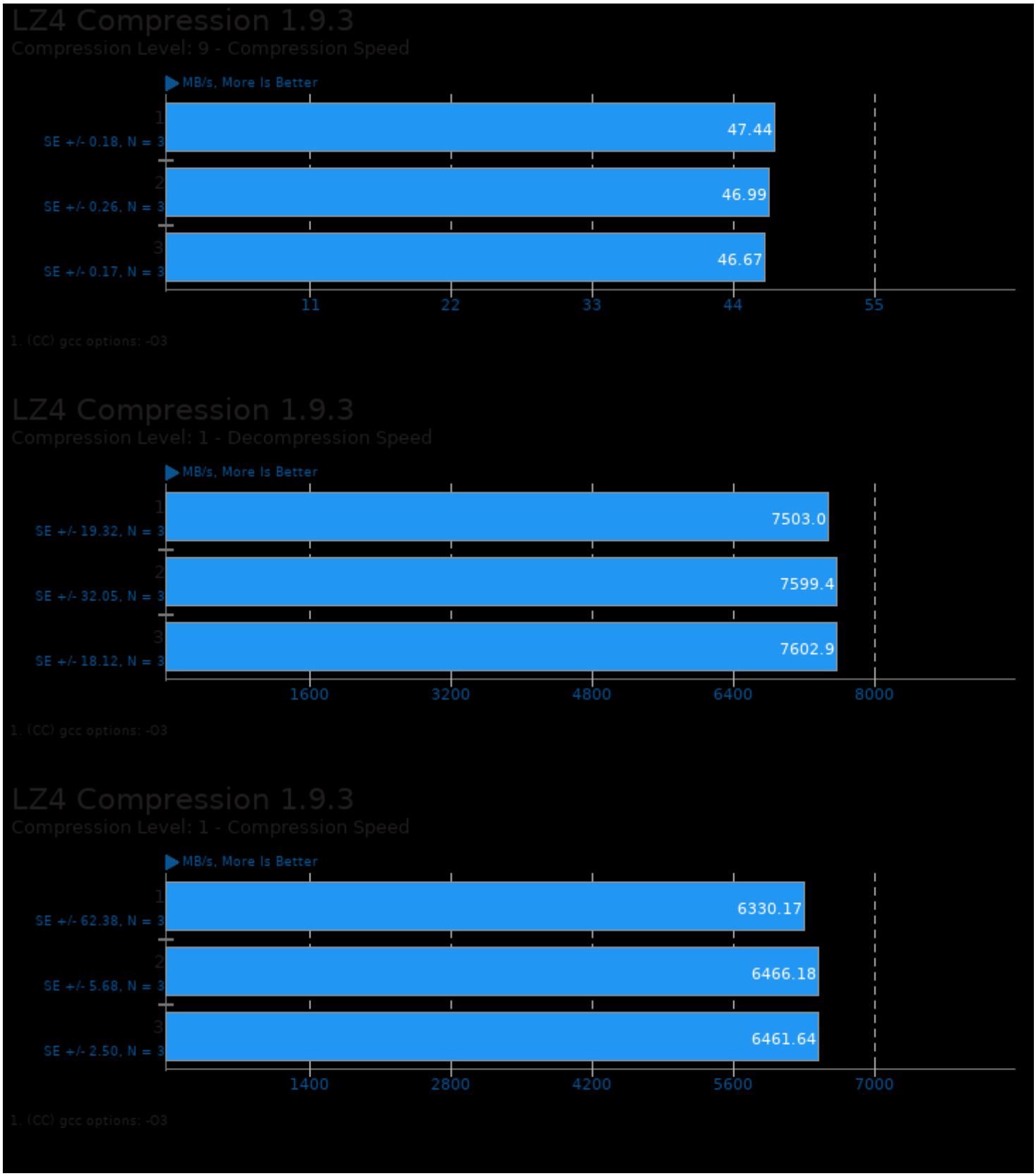
Environment Notes: XPC_FLAGS=0x0
Processor Notes: CPU Microcode: 214

	1	2	3
LZ4 Compression - 3 - D.S (MB/s)	7394	**7401**	**7378**
Normalized	99.9%	100%	99.68%
Standard Deviation	0.2%	0.4%	0%
LZ4 Compression - 3 - Compression Speed (MB/s)	**49.99**	**50.69**	50.46
Normalized	98.62%	100%	99.55%
Standard Deviation	2.8%	1%	1.3%
LZ4 Compression - 9 - D.S (MB/s)	7400	**7422**	**7399**
Normalized	99.69%	100%	99.69%
Standard Deviation	0.4%	0.1%	0.5%
LZ4 Compression - 9 - Compression Speed (MB/s)	**47.44**	46.99	**46.67**
Normalized	100%	99.05%	98.38%
Standard Deviation	0.7%	1%	0.6%
LZ4 Compression - 1 - D.S (MB/s)	**7503**	7599	**7603**
Normalized	98.69%	99.95%	100%
Standard Deviation	0.4%	0.7%	0.4%
LZ4 Compression - 1 - Compression Speed (MB/s)	**6330**	**6466**	6462
Normalized	97.9%	100%	99.93%
Standard Deviation	1.7%	0.2%	0.1%

LZ4 macOS


LZ4 Compression 1.9.3
Compression Level: 3 - Decompression Speed
MB/s, More Is Better
1
SE +/- 5.92, N = 7
7393.7
2
SE +/- 16.77, N = 3
7401.3
3
SE +/- 2.12, N = 3
7377.7
1600
3200
4800
6400
8000
1. (CC) gcc options: -O3
LZ4 Compression 1.9.3
Compression Level: 3 - Compression Speed
MB/s, More Is Better
1
SE +/- 0.52, N = 7
49.99
2
SE +/- 0.30, N = 3
50.69
3
SE +/- 0.38, N = 3
50.46
11
22
33
44
55
1. (CC) gcc options: -O3
LZ4 Compression 1.9.3
Compression Level: 9 - Decompression Speed
MB/s, More Is Better
1
SE +/- 17.73, N = 3
7399.6
2
SE +/- 4.84, N = 3
7422.3
3
SE +/- 23.17, N = 3
7399.0
1600
3200
4800
6400
8000
1. (CC) gcc options: -O3

LZ4 macOS



This file was automatically generated via the Phoronix Test Suite benchmarking software on Thursday, 28 March 2024 21:50.