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AMD Ryzen 9 5900X 12-Core testing with a ASUS ROG CROSSHAIR VIII HERO (3801 BIOS) and Gigabyte AMD Radeon RX 6800/6800 XT / 6900 16GB on Ubuntu 21.10 via the Phoronix Test Suite.

Automated Executive Summary

1 had the most wins, coming in first place for 42% of the tests.

Based on the geometric mean of all complete results, the fastest (1) was 1.003x the speed of the slowest (2). 3 was 0.998x the speed of 1 and 2 was 0.999x the speed of 3.

Test Systems:

1

2

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3

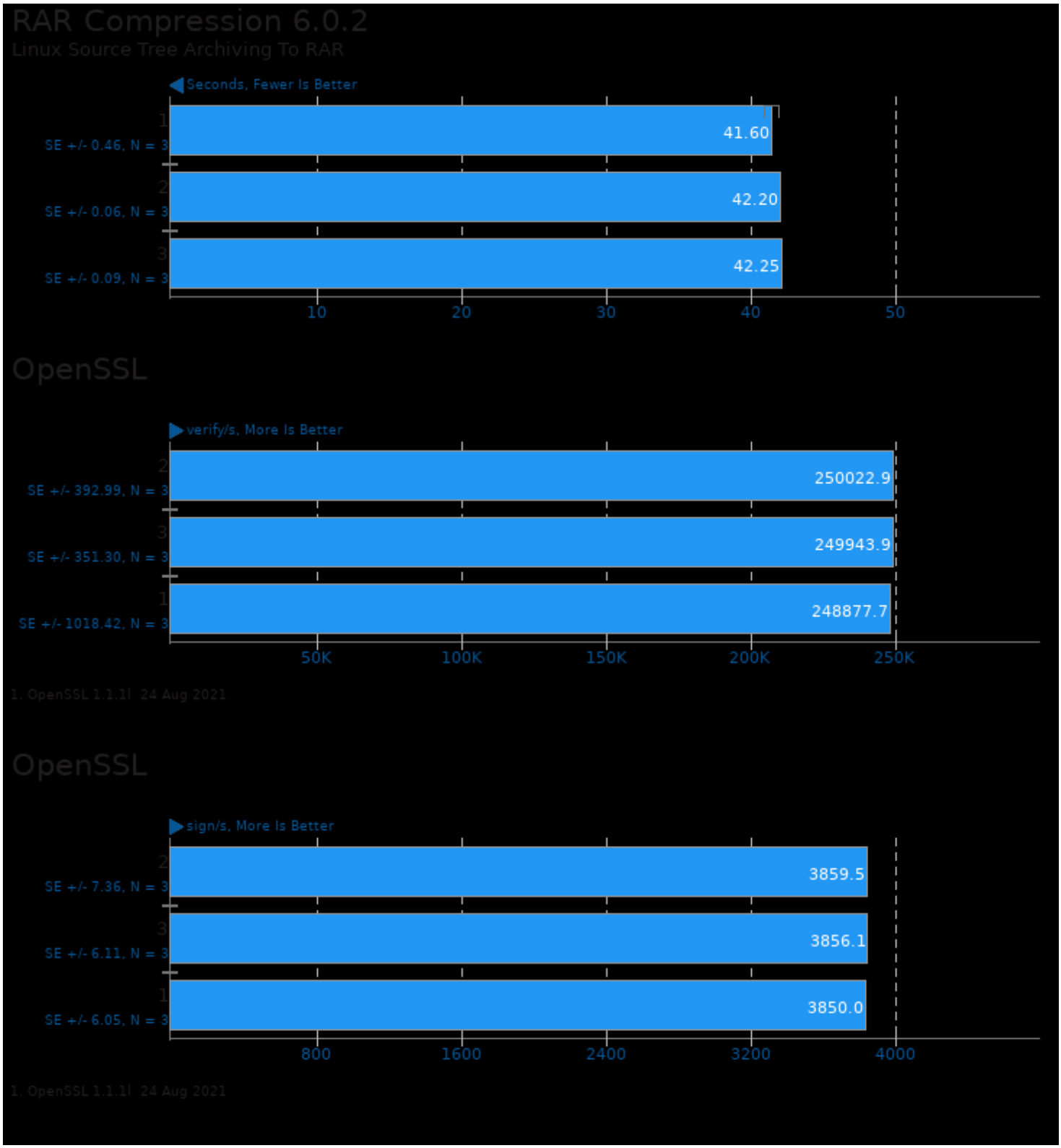
Processor: AMD Ryzen 9 5900X 12-Core @ 3.70GHz (12 Cores / 24 Threads), Motherboard: ASUS ROG CROSSHAIR VIII HERO (3801 BIOS), Chipset: AMD Starship/Matisse, Memory: 16GB, Disk: 1000GB Western Digital WDS100T1X0E-00AFY0 + 2000GB, Graphics: Gigabyte AMD Radeon RX 6800/6800 XT / 6900 16GB (2575/1000MHz), Audio: AMD Navi 21 HDMI Audio, Monitor: ASUS VP28U, Network: Realtek RTL8125 2.5GbE + Intel I211

OS: Ubuntu 21.10, Kernel: 5.13.0-20-generic (x86_64), Desktop: GNOME Shell 40.5, Display Server: X Server 1.20.13, OpenGL: 4.6 Mesa 22.0.0-devel (git-91ff83b 2021-10-18 impish-oibaf-ppa) (LLVM 12.0.1), Vulkan: 1.2.195, Compiler: GCC 11.2.0, File-System: ext4, Screen Resolution: 3840x2160

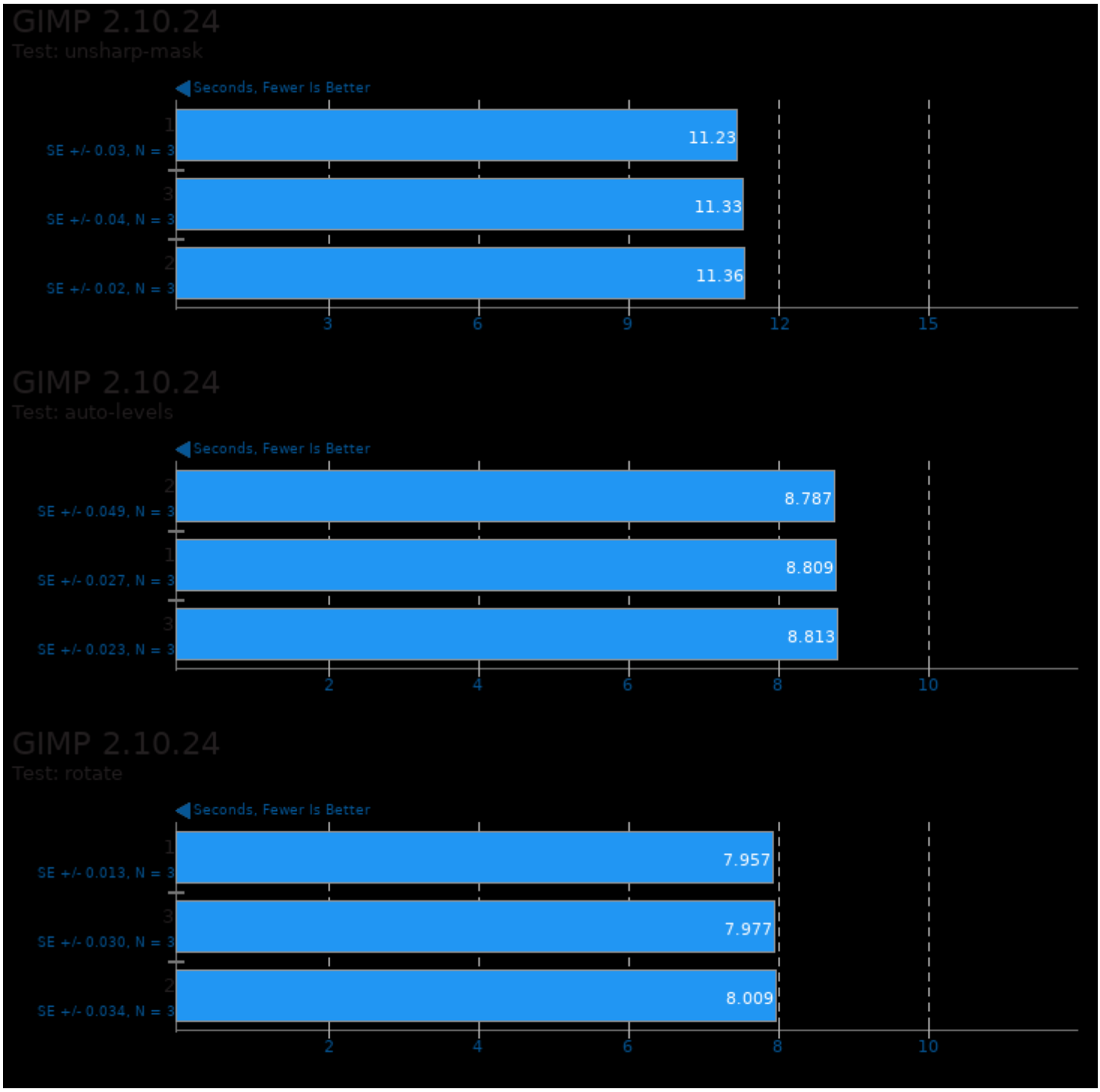
Kernel Notes: Transparent Huge Pages: madvise
Compiler Notes: --build=x86_64-linux-gnu --disable-vtable-verify --disable-werror --enable-bootstrap --enable-cet --enable-checking=release --enable-clocale=gnu --enable-default-pie --enable-gnu-unique-object --enable-languages=c,ada,c++,go,brig,d,fortran,objc,obj-c++,m2 --enable-libphobos-checking=release --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-link-serialization=2 --enable-multiarch --enable-multilib --enable-nls --enable-objc-gc=auto --enable-offload-targets=nvptx-none=/build/gcc-11-ZPT0kp/gcc-11-11.2.0/debian/tmp-nvptx/usr,amdgcn-amdhsa=/build/gcc-11-ZPT0kp/gcc-11-11.2.0/debian/tmp-gcn/usr --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-build-config=bootstrap-lto-lean --with-default-libstdcxx-abi=new --with-gcc-major-version-only --with-multilib-list=m32,m64,mx32 --with-target-system-zlib=auto --with-tune=generic --without-cuda-driver -v
Processor Notes: Scaling Governor: acpi-cpufreq performance (Boost: Enabled) - CPU Microcode: 0xa201016
Security Notes: itlb_multihit: Not affected + 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 Full AMD retpoline IBPB: conditional IBRS_FW STIBP: always-on RSB filling + srbds: Not affected + tsx_async_abort: Not affected

	1	2	3
RAR Compression - L.S.T.A.T.R (sec)	**41.597**	42.197	**42.246**
Normalized	100%	98.58%	98.46%
Standard Deviation	1.9%	0.3%	0.4%
OpenSSL (verify/s)	**248878**	**250023**	249944
Normalized	99.54%	100%	99.97%
Standard Deviation	0.7%	0.3%	0.2%
OpenSSL (sign/s)	**3850**	**3860**	3856
Normalized	99.75%	100%	99.91%
Standard Deviation	0.3%	0.3%	0.3%
GIMP - unsharp-mask (sec)	**11.231**	**11.357**	11.328
Normalized	100%	98.89%	99.14%
Standard Deviation	0.4%	0.3%	0.6%
GIMP - auto-levels (sec)	8.809	**8.787**	**8.813**
Normalized	99.75%	100%	99.7%
Standard Deviation	0.5%	1%	0.4%
GIMP - rotate (sec)	**7.957**	**8.009**	7.977
Normalized	100%	99.35%	99.75%
Standard Deviation	0.3%	0.7%	0.6%
GIMP - resize (sec)	**5.184**	5.180	**5.155**
Normalized	99.44%	99.52%	100%
Standard Deviation	0.6%	0.6%	0.6%

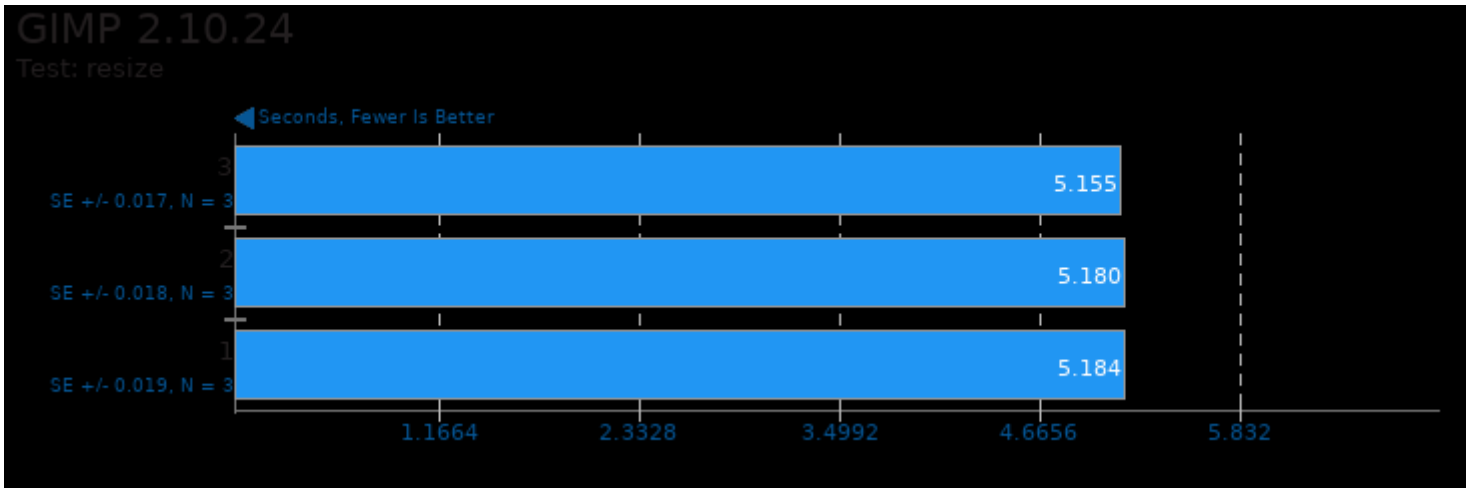
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RAR Compression 6.0.2
Linux Source Tree Archiving To RAR
Seconds, Fewer Is Better
1
SE +/- 0.46, N = 3
41.60
2
SE +/- 0.06, N = 3
42.20
3
SE +/- 0.09, N = 3
42.25
10
20
30
40
50
OpenSSL
verify/s, More Is Better
2
SE +/- 392.99, N = 3
250022.9
3
SE +/- 351.30, N = 3
249943.9
1
SE +/- 1018.42, N = 3
248877.7
50K
100K
150K
200K
250K
1. OpenSSL 1.1.1l 24 Aug 2021
OpenSSL
sign/s, More Is Better
2
SE +/- 7.36, N = 3
3859.5
3
SE +/- 6.11, N = 3
3856.1
1
SE +/- 6.05, N = 3
3850.0
800
1600
2400
3200
4000
1. OpenSSL 1.1.1l 24 Aug 2021

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GIMP 2.10.24
Test: unsharp-mask
Seconds, Fewer Is Better
1
SE +/- 0.03, N = 3
11.23
3
SE +/- 0.04, N = 3
11.33
2
SE +/- 0.02, N = 3
11.36
3
6
9
12
15
GIMP 2.10.24
Test: auto-levels
Seconds, Fewer Is Better
2
SE +/- 0.049, N = 3
8.787
1
SE +/- 0.027, N = 3
8.809
3
SE +/- 0.023, N = 3
8.813
2
4
6
8
10
GIMP 2.10.24
Test: rotate
Seconds, Fewer Is Better
1
SE +/- 0.013, N = 3
7.957
3
SE +/- 0.030, N = 3
7.977
2
SE +/- 0.034, N = 3
8.009
2
4
6
8
10

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This file was automatically generated via the Phoronix Test Suite benchmarking software on Thursday, 28 March 2024 16:06.