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# gimp ssl

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

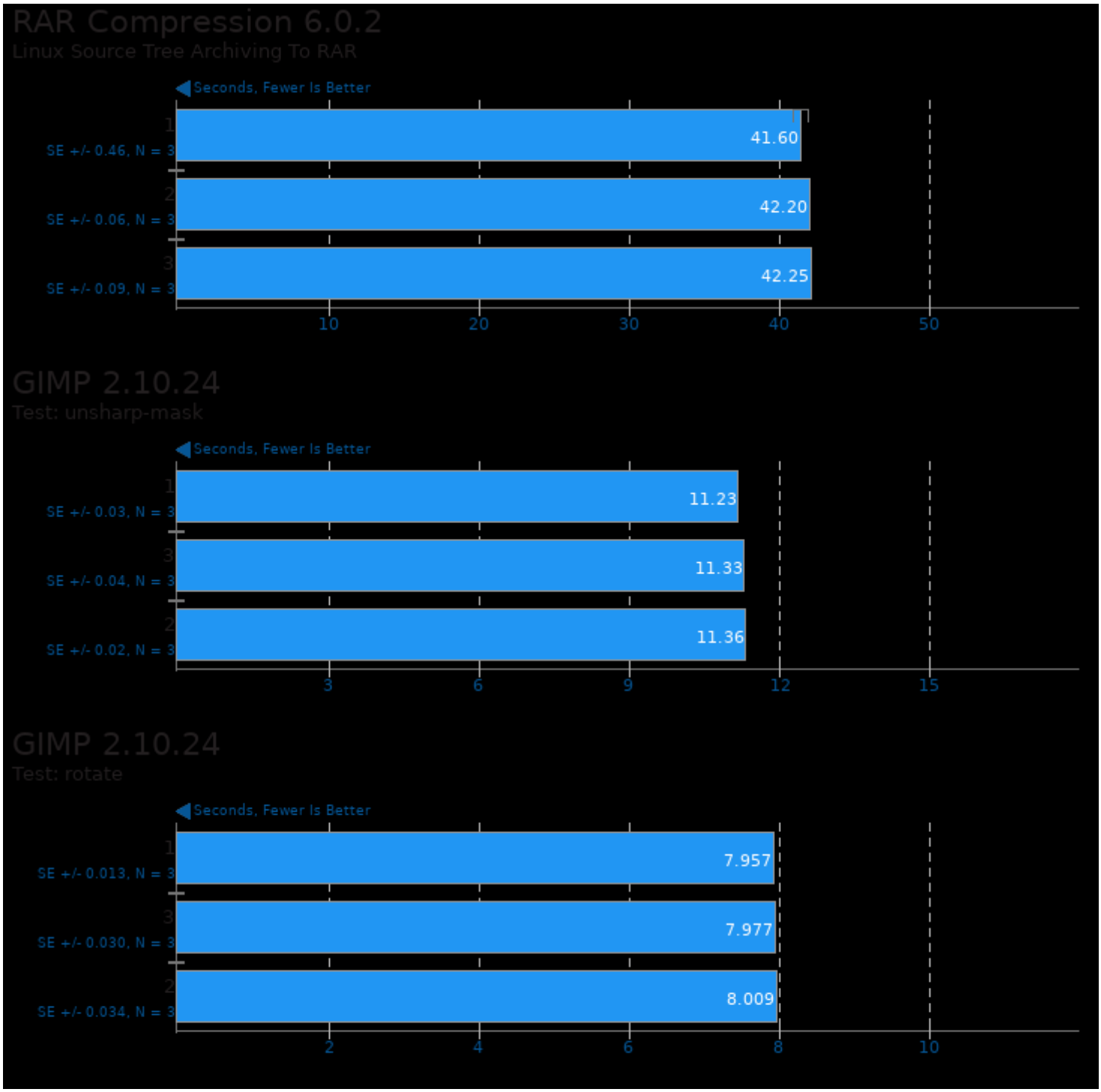
Processor: AMD Ryzen 9 5900X 12-Core @ 3.70GHz (12 Cores / 24 Threads), Motherboard: ASUS ROG CROSSHAIR VIII HERO (3801 BIOS), Chipset: AMD Starship/Matisse, Memory: 16GB, Disk: 1000GB Western Digital WDS100T1X0E-00AFY0 + 2000GB, Graphics: Gigabyte AMD Radeon RX 6800/6800 XT / 6900 16GB (2575/1000MHz),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

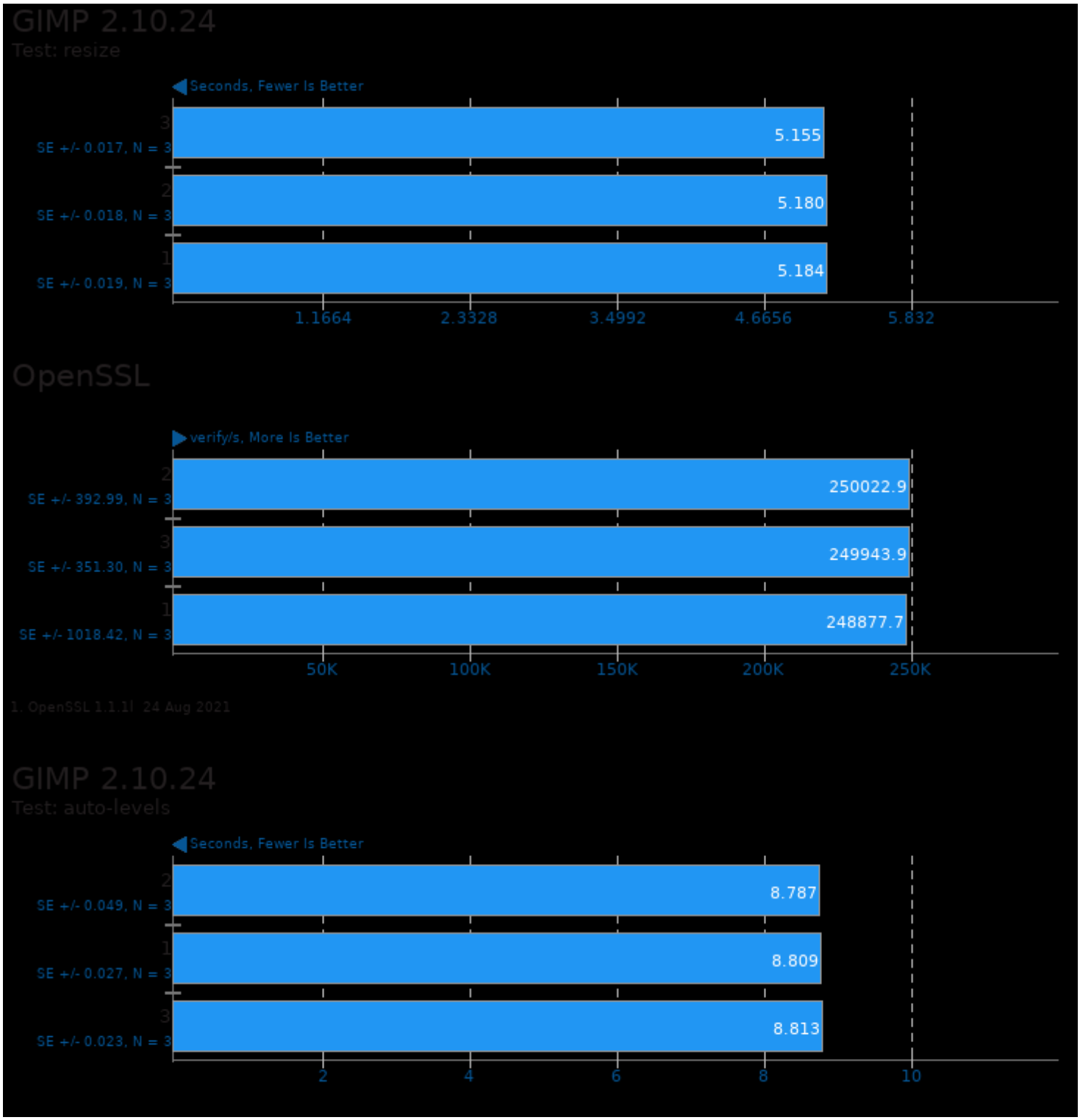
Kernel Notes: Transparent Huge Pages: madvise
Compiler Notes: --build=x86_64-linux-gnu --disable-vtable-verify --disable-werror --enable-bootstrap --enable-cet --enable-checking=release --enable-clocale=gnu --enable-default-pie --enable-gnu-unique-object --enable-languages=c,ada,c++,go,brig,d,fortran,objc,obj-c++,m2 --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% |
| **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 - 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% |
| **OpenSSL (verify/s)** | **248878** | **250023** | 249944 |
| **Normalized** | 99.54% | 100% | 99.97% |
| **Standard Deviation** | 0.7% | 0.3% | 0.2% |
| **GIMP - auto-levels (sec)** | 8.809 | **8.787** | **8.813** |
| **Normalized** | 99.75% | 100% | 99.7% |
| **Standard Deviation** | 0.5% | 1% | 0.4% |
| **OpenSSL (sign/s)** | **3850** | **3860** | 3856 |
| **Normalized** | 99.75% | 100% | 99.91% |
| **Standard Deviation** | 0.3% | 0.3% | 0.3% |

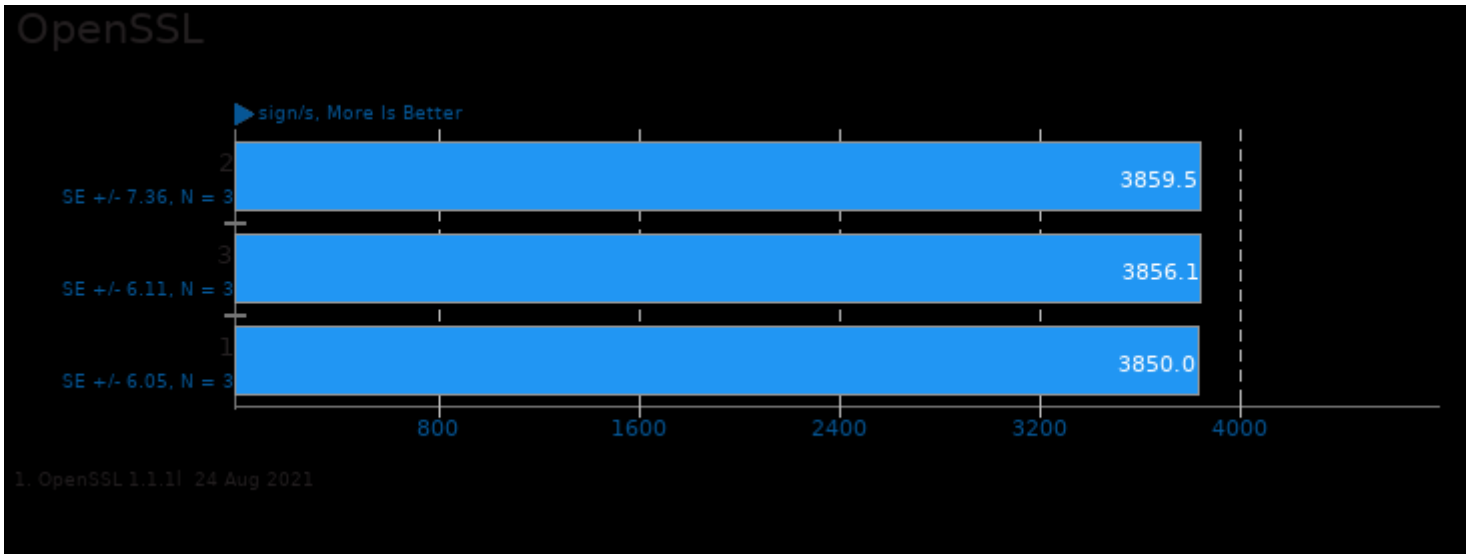
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RAR Compression 6.0.2
Linux Source Tree Archiving To RAR
Seconds, Fewer Is Better
1
SE +/- 0.46, N = 3
41.60
2
SE +/- 0.06, N = 3
42.20
3
SE +/- 0.09, N = 3
42.25
10
20
30
40
50
GIMP 2.10.24
Test: unsharp-mask
Seconds, Fewer Is Better
1
SE +/- 0.03, 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: 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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GIMP 2.10.24
Test: resize
Seconds, Fewer Is Better
3
SE +/- 0.017, N = 3
5.155
2
SE +/- 0.018, N = 3
5.180
1
SE +/- 0.019, N = 3
5.184
1.1664
2.3328
3.4992
4.6656
5.832
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
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

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*This file was automatically generated via the Phoronix Test Suite benchmarking software on Friday, 29 March 2024 04:57.*