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Ryzen PRO 4750G

AMD Ryzen 7 3700X 8-Core testing with a ASRock X470 Gaming K4 (P3.70 BIOS) and Sapphire AMD Radeon 540/540X/550/550X / RX 540X/550/550X 2GB on Arch Linux via the Phoronix Test Suite.

Test Systems:

R7P

Processor: AMD Ryzen 7 PRO 4750G @ 3.60GHz (8 Cores / 16 Threads), Motherboard: ASUS TUF GAMING X570-PLUS (WI-FI) (3603 BIOS), Memory: 4 x 8192 MB 3200MHz, Disk: 58GB Kingston DataTraveler 3.0 USB + 932GB ST31000524AS + 238GB SAMSUNG MZVLW256HEHP-000L7 + 1863GB ST2000DM001-1CH164 + 466GB Hitachi HDS721050CLA660, Graphics: AMD Radeon 512MB, Audio: AMD Streaming Audio Device + AMD HD Audio Device + Sound Blaster ZxR DBpro + Dispositivo de HD Audio + Dispositivo de audio USB + Sound Blaster ZxR, Monitor: LG TV, Network: Bluetooth Device (Personal Area)

OS: Microsoft Windows 10 Pro Build 19043, Kernel: 10.0 (x86_64), Display Driver: 27.20.22001.14011, OpenCL: OpenCL 2.1 AMD-APP (3276.6), File-System: NTFS, Screen Resolution: 1920x1080

Processor Notes: CPU Microcode: 0601600800000000
Security Notes: __user pointer sanitization: Disabled + Retpoline: Full + IBPB: Always + IBRS: Enabled + STIBP: Enabled

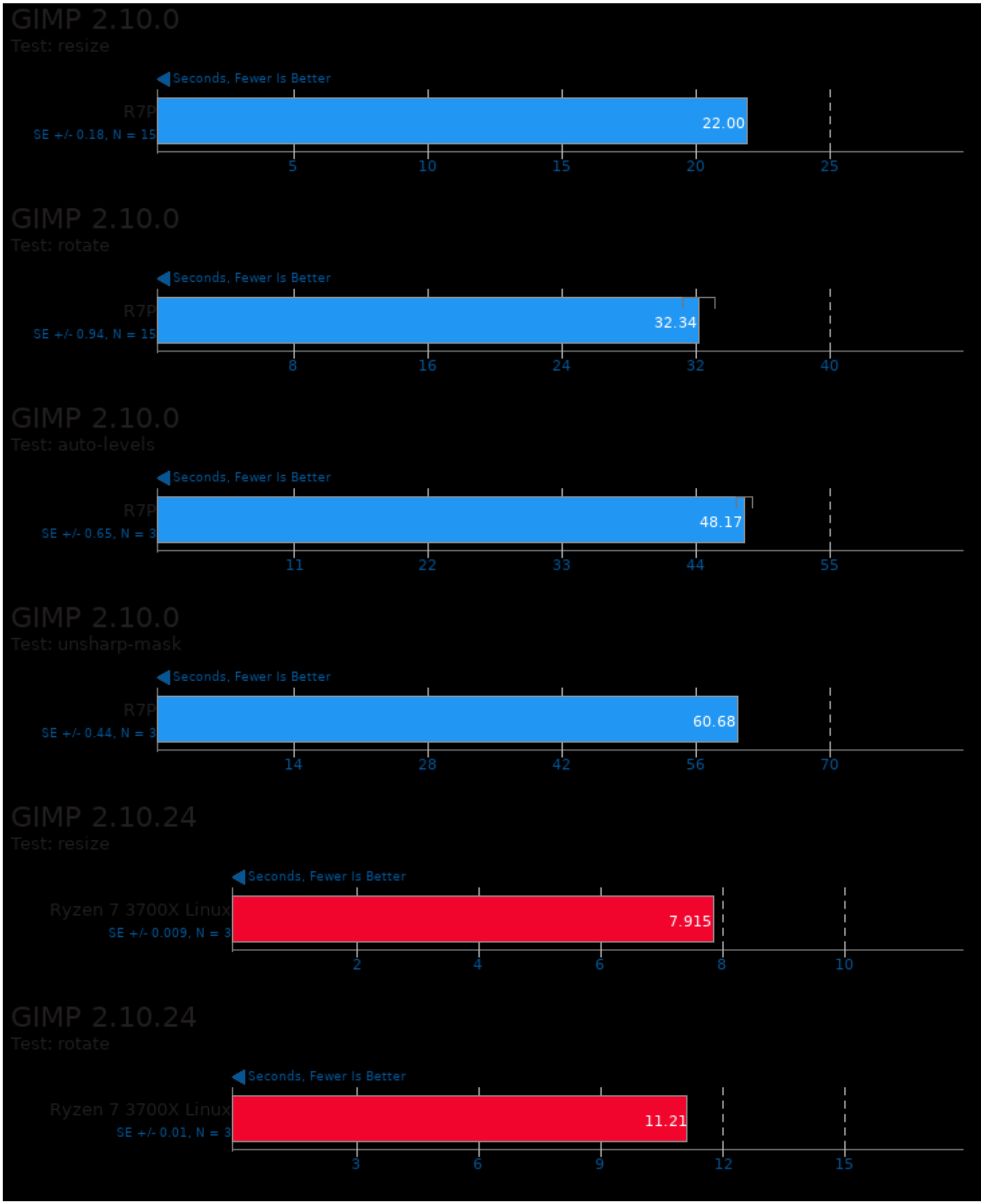
Ryzen 7 3700X Linux

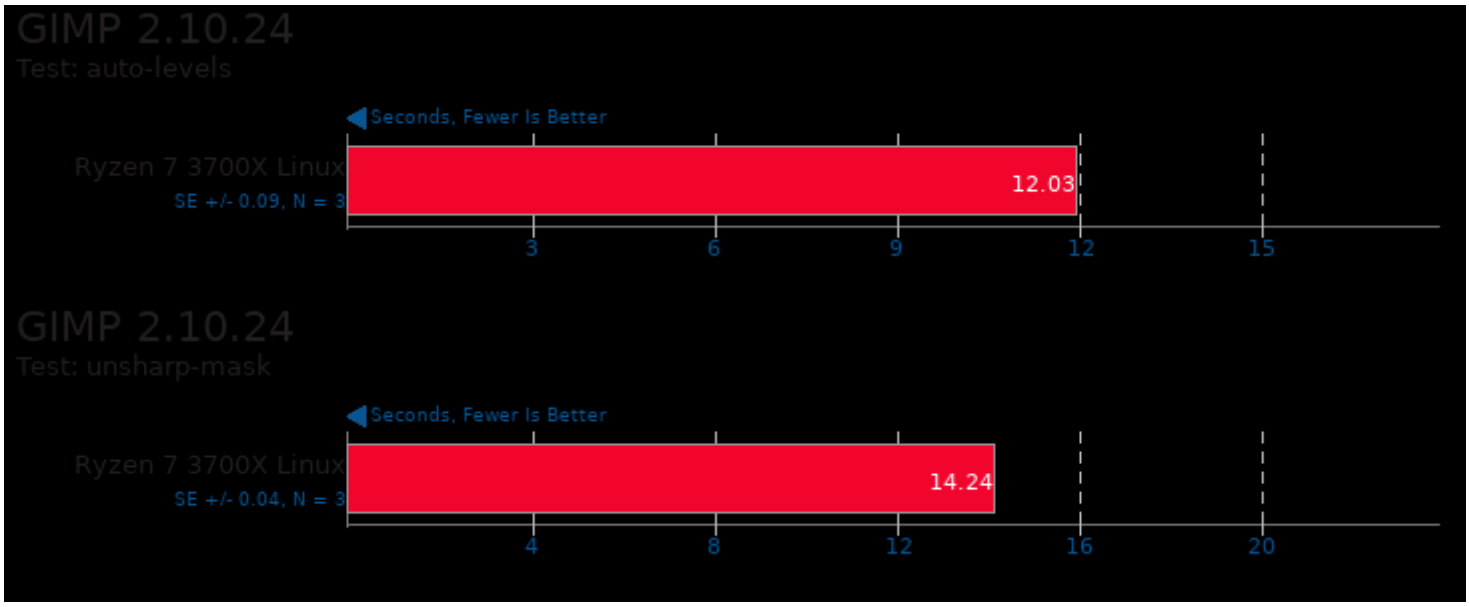
Processor: AMD Ryzen 7 3700X 8-Core @ 3.60GHz (8 Cores / 16 Threads), Motherboard: ASRock X470 Gaming K4 (P3.70 BIOS), Chipset: AMD Starship/Matisse, Memory: 32GB, Disk: 1024GB ADATA SX8200PNP + 480GB ADATA SX8200NP + 2 x 3001GB Western Digital WD30EFRX-68E + 0GB USB3.0 CRW-0 + 0GB USB3.0 CRW-1 + 0GB USB3.0 CRW-2 + 0GB USB3.0 CRW-3, Graphics: Sapphire AMD Radeon 540/540X/550/550X / RX 540X/550/550X 2GB (1206/1500MHz), Audio: AMD Baffin HDMI/DP, Monitor: LG ULTRAGEAR, Network: Intel I211

OS: Arch Linux, Kernel: 5.13.7-arch1-1 (x86_64), Display Server: X Server 1.20.13, OpenGL: 4.6 Mesa 21.1.6 (LLVM 12.0.1), Compiler: GCC 11.1.0 + TCC 0.9.27 + Clang 12.0.1, File-System: ext4, Screen Resolution: 2560x1440

Kernel Notes: Transparent Huge Pages: madvise
Processor Notes: Scaling Governor: acpi-cpufreq schedutil (Boost: Enabled) - CPU Microcode: 0x8701013
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 STIBP: conditional RSB filling + srbds: Not affected + tsx_async_abort: Not affected

	R7P	Ryzen 7 3700X Linux
GIMP - resize (sec)	22.003	
Standard Deviation	3.2%	
GIMP - rotate (sec)	32.337	
Standard Deviation	11.3%	
GIMP - auto-levels (sec)	48.166	
Standard Deviation	2.3%	
GIMP - unsharp-mask (sec)	60.678	
Standard Deviation	1.3%	
GIMP - resize (sec)		7.915
Standard Deviation		0.2%
GIMP - rotate (sec)		11.210
Standard Deviation		0.1%
GIMP - auto-levels (sec)		12.033
Standard Deviation		1.3%
GIMP - unsharp-mask (sec)		14.241
Standard Deviation		0.5%


GIMP 2.10.0
Test: resize
Seconds, Fewer Is Better
R7P
SE +/- 0.18, N = 15
22.00
5
10
15
20
25
GIMP 2.10.0
Test: rotate
Seconds, Fewer Is Better
R7P
SE +/- 0.94, N = 15
32.34
8
16
24
32
40
GIMP 2.10.0
Test: auto-levels
Seconds, Fewer Is Better
R7P
SE +/- 0.65, N = 3
48.17
11
22
33
44
55
GIMP 2.10.0
Test: unsharp-mask
Seconds, Fewer Is Better
R7P
SE +/- 0.44, N = 3
60.68
14
28
42
56
70
GIMP 2.10.24
Test: resize
Seconds, Fewer Is Better
Ryzen 7 3700X Linux
SE +/- 0.009, N = 3
7.915
2
4
6
8
10
GIMP 2.10.24
Test: rotate
Seconds, Fewer Is Better
Ryzen 7 3700X Linux
SE +/- 0.01, N = 3
11.21
3
6
9
12
15



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