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xwayland-2d-x11perf

wayland on amd chipset

Test Systems:

xwayland-intel

Processor: Intel Core i3 330M @ 2.13GHz (4 Cores), Motherboard: LENOVO 3249J4C, Chipset: Intel Core DRAM, Memory: 2048MB, Disk: 250GB HITACHI HTS54502, Graphics: Intel Core IGP, Audio: Conexant CX20585, Network: Intel 82577LM Gigabit Connection + Intel Centrino Wireless-N 1000

OS: Linux, Kernel: 3.9.7-1-ARCH (x86_64), Display Server: X Server 1.14.2, Display Driver: intel 2.21.10, Compiler: GCC 4.8.1, File-System: ext4, Screen Resolution: 1280x800

Graphics Notes: UXA

xorg-intel

Processor: Intel Core i3 330M @ 2.13GHz (4 Cores), Motherboard: LENOVO 3249J4C, Chipset: Intel Core DRAM,

Memory: 2048MB, Disk: 250GB HITACHI HTS54502, Graphics: Intel Core IGP, Audio: Conexant CX20585, Network: Intel 82577LM Gigabit Connection + Intel Centrino Wireless-N 1000

OS: Linux, Kernel: 3.9.7-1-ARCH (x86_64), Display Server: X Server 1.14.2, Display Driver: intel 2.21.10, OpenGL: 2.1 Mesa 9.1.3, Compiler: GCC 4.8.1, File-System: ext4, Screen Resolution: 1280x800

Graphics Notes: UXA

x11

wayland

Processor: AMD Ryzen 5 4600H @ 3.00GHz (6 Cores / 12 Threads), Motherboard: ASUS FA506IH v1.0 (FA506IH.315 BIOS), Chipset: AMD Renoir Root Complex, Memory: 8GB, Disk: 512GB Micron_2210_MTFDHBA512QFD, Graphics: ASUS AMD Renoir (1500/400MHz), Audio: AMD Device 1637, Network: Realtek RTL8111/8168/8411 + Realtek RTL8822CE 802.11ac PCIe

OS: Garuda Soaring, Kernel: 5.12.2-153-tkg-bmq (x86_64), Desktop: KDE Plasma 5.21.5, Display Server: X Server 1.20.11, OpenGL: 4.6 Mesa 21.1.0 (LLVM 11.1.0), Compiler: GCC 10.2.0 + Clang 11.1.0, File-System: btrfs, Screen Resolution: 1920x1080

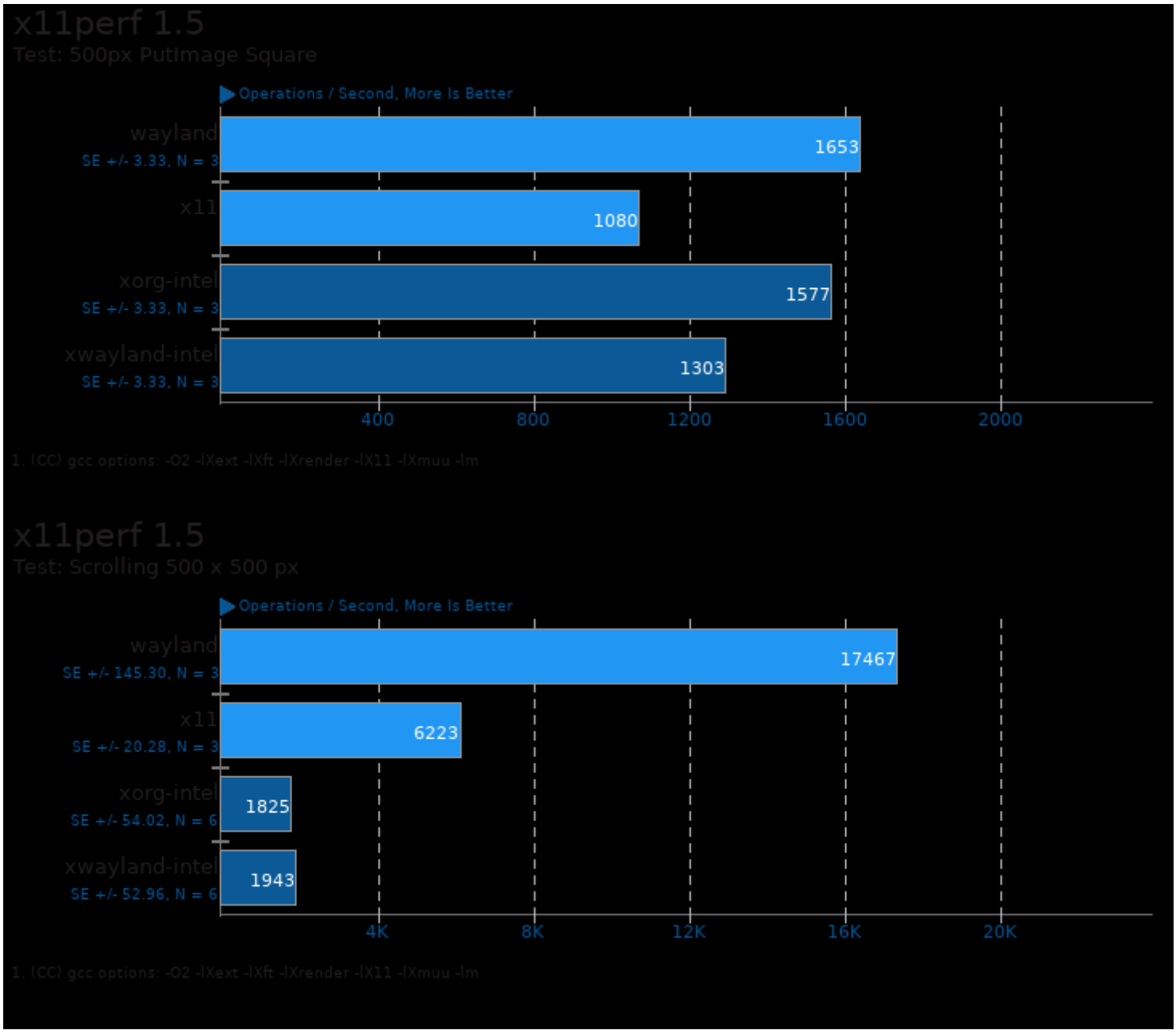
Kernel Notes: Transparent Huge Pages: madvise
Compiler Notes: --disable-libssp --disable-libstdcxx-pch --disable-libunwind-exceptions --disable-werror --enable-__cxa_atexit --enable-cet=auto --enable-checking=release --enable-clocale=gnu --enable-default-pie --enable-default-ssp --enable-gnu-indirect-function --enable-gnu-unique-object --enable-install-libiberty --enable-languages=c,c++,ada,fortran,go,lto,objc,obj-c++,d --enable-lto --enable-multilib --enable-plugin --enable-shared --enable-threads=posix --mandir=/usr/share/man --with-isl --with-linker-hash-style=gnu
Processor Notes: Scaling Governor: acpi-cpufreq performance (Boost: Disabled) - CPU Microcode: 0x8600104
Graphics Notes: GLAMOR
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: conditional RSB filling + srbds: Not affected + tsx_async_abort: Not affected

	xwayland-intel	xorg-intel	x11	wayland
x11perf - 5.P.S (Operations / Second)	1303	1577	**1080**	**1653**
Normalized	78.83%	95.4%	65.34%	100%
Standard Deviation	0.4%	0.4%		0.3%
x11perf - S.5.x.5.p (Operations /	1943	**1825**	6223	**17467**
Normalized	11.12%	10.45%	35.63%	100%
Standard Deviation	6.7%	7.3%	0.6%	1.4%
x11perf - C.i.8.c.a.l (Operations / Second)	1290000	**1236667**	7300000	**22860000**
Normalized	5.64%	5.41%	31.93%	100%
Standard Deviation	0%	0.9%	0.2%	2.2%
x11perf - P.X.5.S (Operations /	**0.50**	**0.50**	43.5	**93.8**
Normalized	0.53%	0.53%	46.38%	100%
Standard Deviation	0%	0%	0.2%	5.1%
x11perf - F.3.x.3.A.T (Operations / Second)	1183	1187	**951**	**3450**
Normalized	34.29%	34.41%	27.57%	100%
Standard Deviation	0.5%	0.5%	1.4%	2.2%

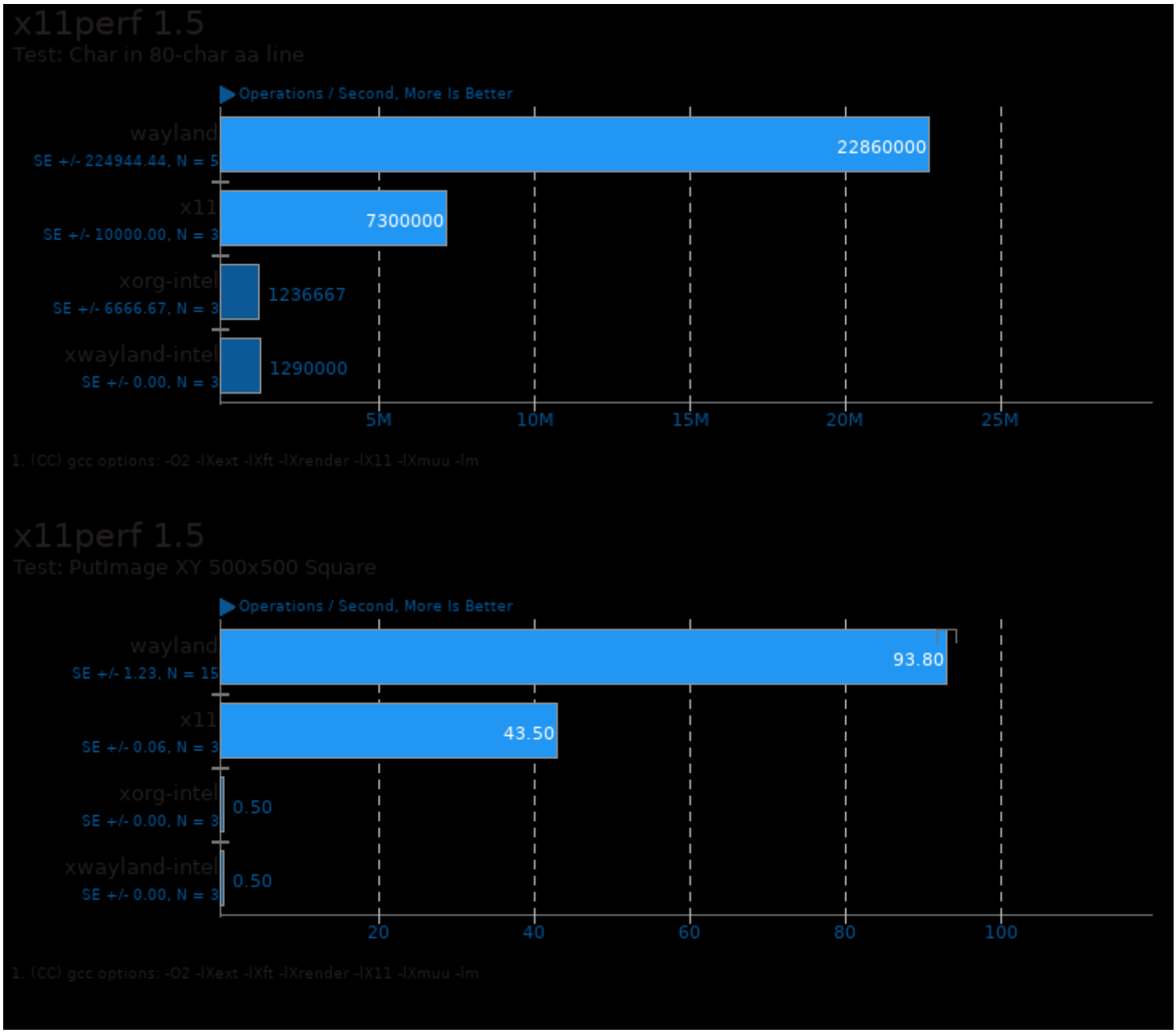
xwayland-2d-x11perf

x11perf - 5.C.F.W.T.W (Operations / Second)	2038	**1845**	6067	**15100**
Normalized	13.5%	12.22%	40.18%	100%
Standard Deviation	5%	8%	0.4%	
x11perf - C.5.F.P.T.P (Operations / Second)	2072	**1952**	10267	**15467**
Normalized	13.4%	12.62%	66.38%	100%
Standard Deviation	7.7%	5.4%	0.6%	0.4%
x11perf - 5.C.F.P.T.W (Operations / Second)	**1870**	2008	131333	**158333**
Normalized	1.18%	1.27%	82.95%	100%
Standard Deviation	12.1%	8.3%	0.4%	0.7%
x11perf - 5.C.F.W.T.W (Operations / Second)	1980	**1913**	6073	**15033**
Normalized	13.17%	12.73%	40.4%	100%
Standard Deviation	3.1%	5.4%	0.8%	1%

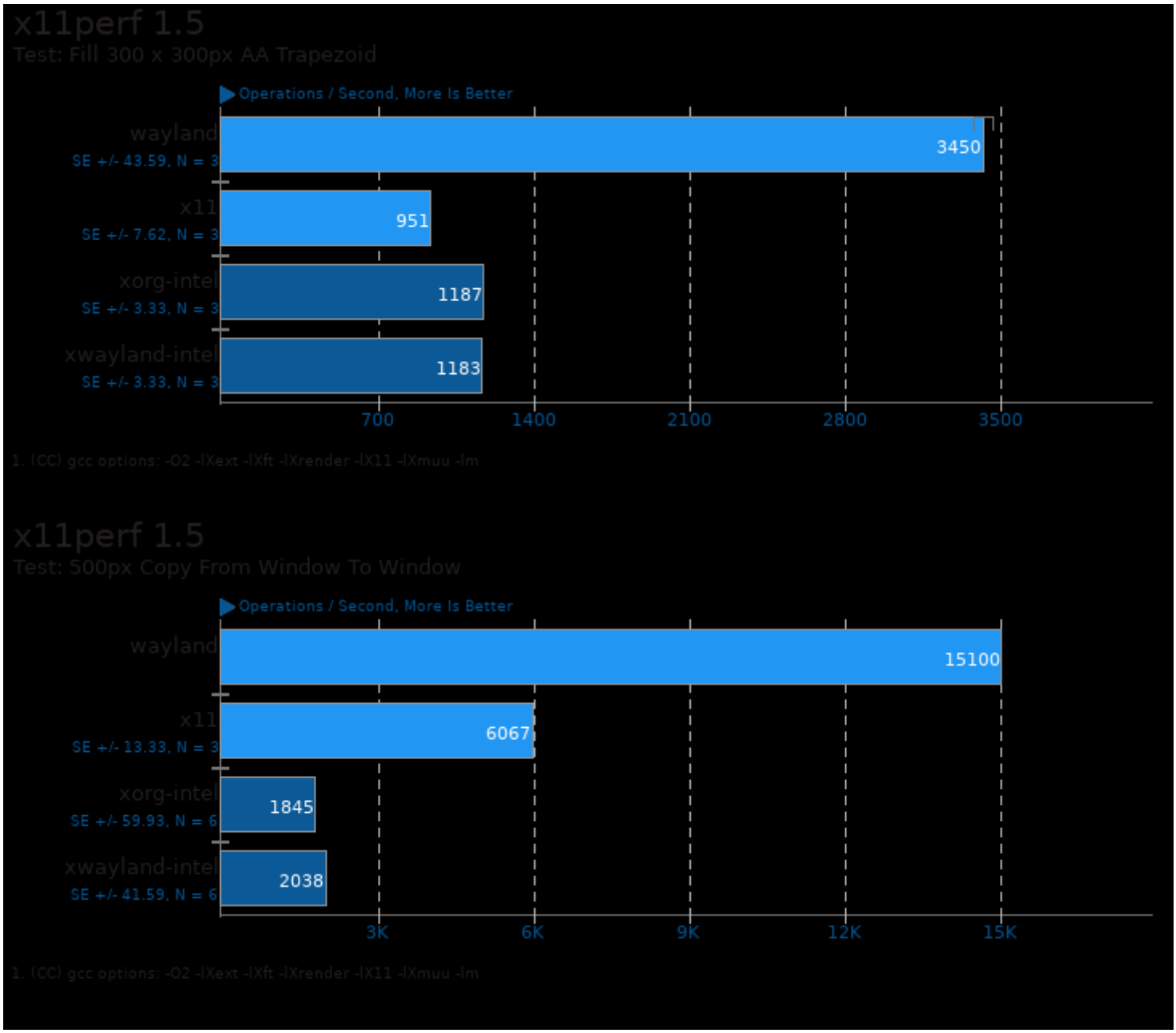
xwayland-2d-x11perf



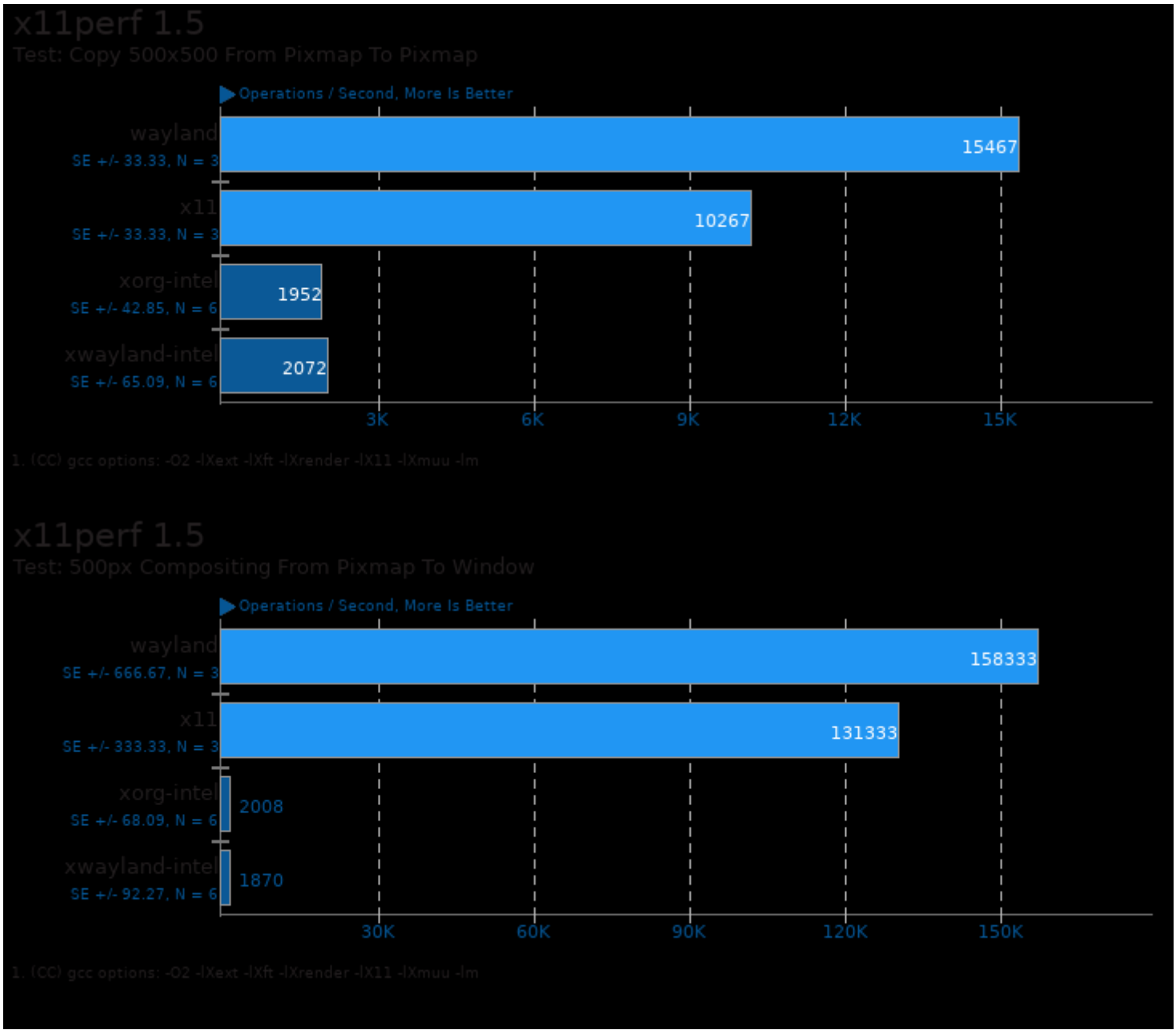
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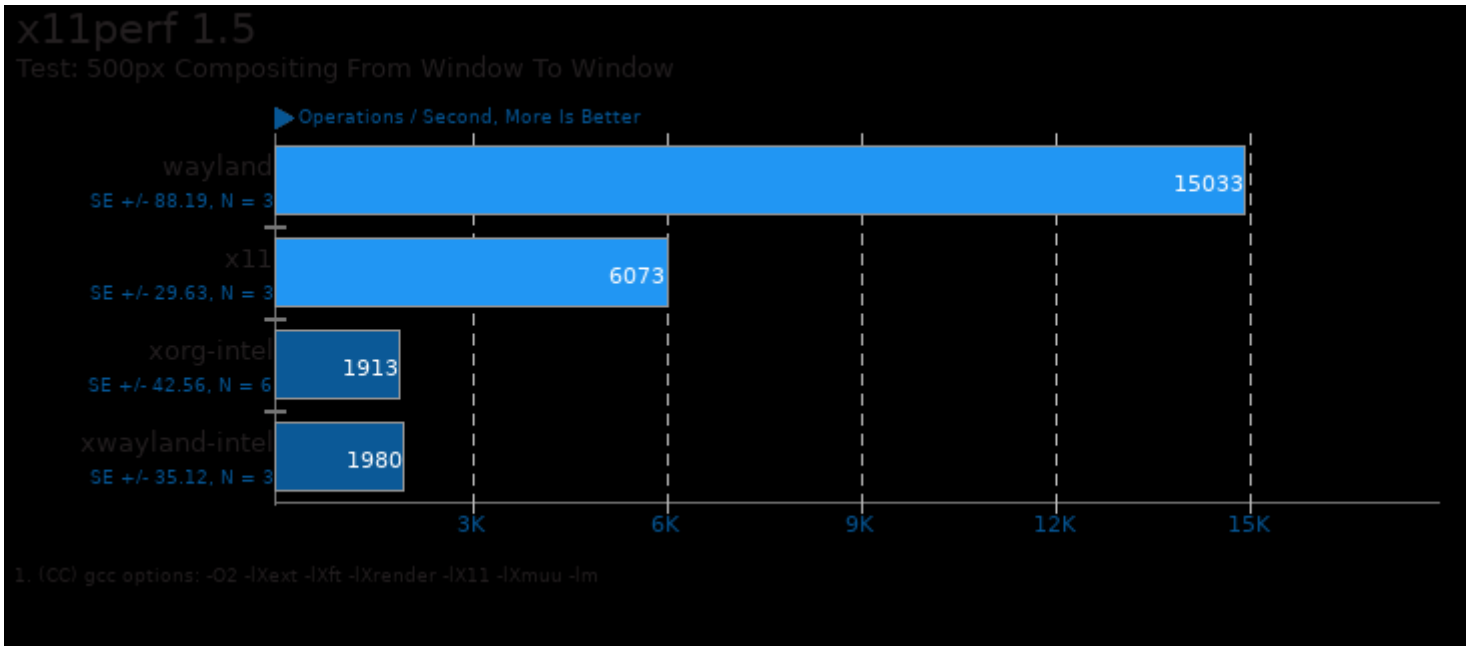
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