



## Himeno

AMD Ryzen 9 3950X 16-Core testing with a ASRock X570S PG Riptide (P5.60 BIOS) and NVIDIA GeForce RTX 3070 8GB on Gentoo 2.15 via the Phoronix Test Suite.

### Test Systems:

**-march=znver2**

**-O2**

**-O3**

**-fcf-protection=none**

**-fdata-sections**

**-fdirect-access-external-data**

**-ffp-contract=fast**

**-ffast-math**

**-ffunction-sections**

**-flto**

**-fno-common**

**-fno-plt**

**-fno-sanitize=all**

**-fno-semantic-interposition**

**-fno-stack-protector**

**-O2 -ffast-math**

Processor: AMD Ryzen 9 3950X 16-Core @ 4.76GHz (16 Cores), Motherboard: ASRock X570S PG Riptide (P5.60 BIOS), Chipset: AMD Starship/Matisse, Memory: 4 x 8GB DDR4-3200MT/s F4-3200C16-8GTZR, Disk: 2000GB Samsung SSD 970 EVO Plus 2TB + 2 x 500GB Samsung SSD 850 + 2000GB Seagate ST2000DM001-1ER1, Graphics: NVIDIA GeForce RTX 3070 8GB, Audio: NVIDIA GA104 HD Audio, Monitor: VX238 + marantz-AVR, Network: Realtek Killer E3000 2.5GbE

OS: Gentoo 2.15, Kernel: 6.9.3-clang (x86\_64), Desktop: KDE Plasma 6.0.90, Display Server: Wayland, Display Driver: NVIDIA 550.78, OpenGL: 4.6.0, OpenCL: OpenCL 3.0 CUDA 12.4.131, Compiler: GCC 13.3.0 + Clang 18.1.6+libcxx + CUDA 12.4, File-System: xfs

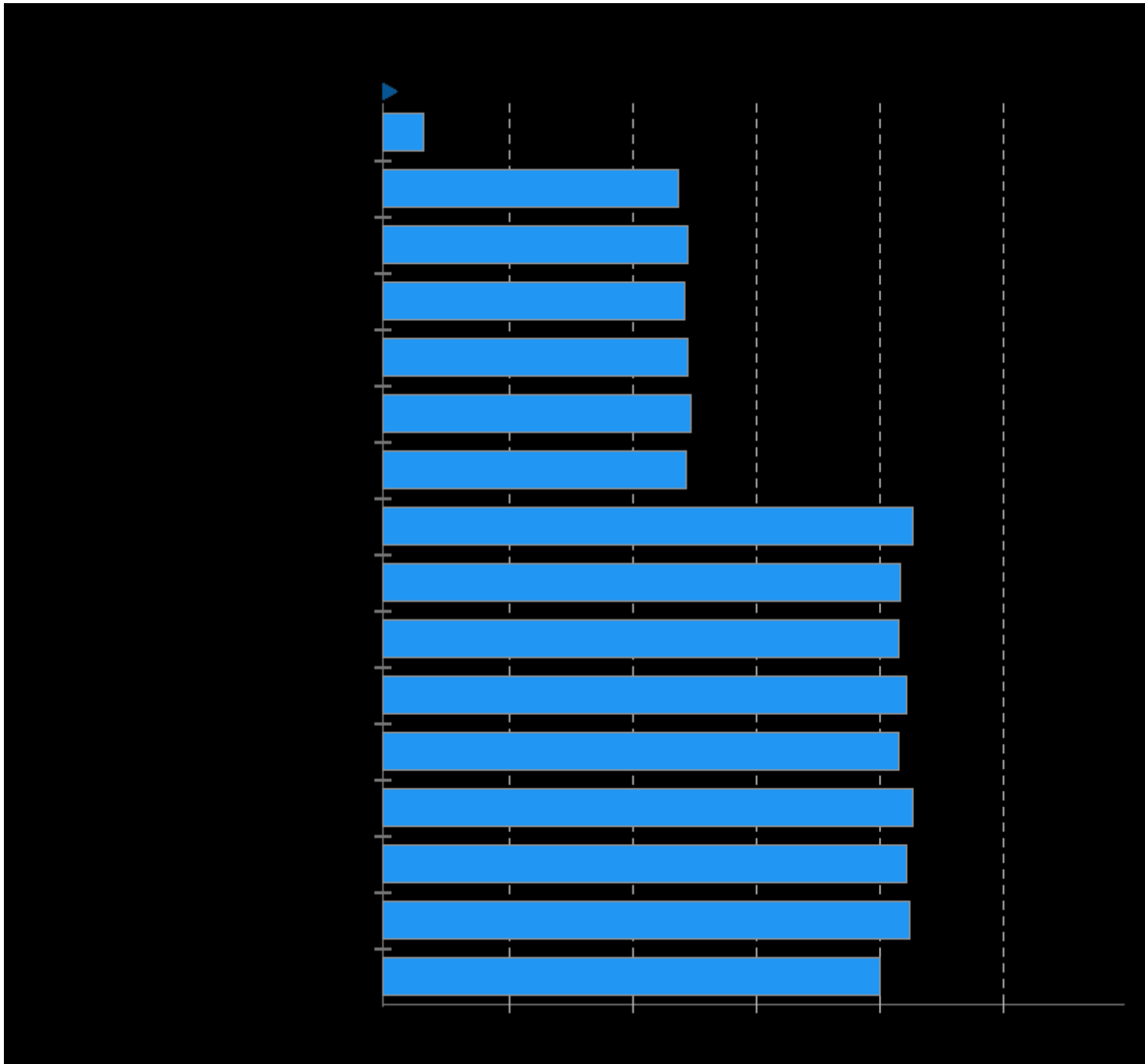
Environment Notes: \_\_GL\_SYNC\_DISPLAY\_DEVICE=HDMI-0 \_\_GL\_YIELD= WINEDEBUG=-all

Compiler Notes: --bindir=/usr/x86\_64-pc-linux-gnu/gcc-bin/13 --build=x86\_64-pc-linux-gnu --datadir=/usr/share/gcc-data/x86\_64-pc-linux-gnu/13 --disable-cet --disable-default-ssp --disable-dependency-tracking --disable-fixed-point --disable-fixincludes --disable-libada --disable-lsanitizer --disable-libssp --disable-libstdc++-pch --disable-libunwind-exceptions --disable-libvtv --disable-silent-rules --disable-systemtap --disable-valgrind-annotations --disable-vtable-verify --disable-werror --enable-\_\_cxa\_atexit --enable-checking=release --enable-clocale=gnu --enable-default-pie --enable-languages=c,c++,fortran --enable-libgomp --enable-libstdc++-time --enable-lto --enable-multilib --enable-nls --enable-obsolete --enable-secureplt --enable-shared --enable-targets=all --enable-threads=posix --host=x86\_64-pc-linux-gnu --includedir=/usr/lib/gcc/x86\_64-pc-linux-gnu/13/include --mandir=/usr/share/gcc-data/x86\_64-pc-linux-gnu/13/man --with-build-config=bootstrap-O3 --with-gcc-major-version-only --with-multilib-list=m32,m64 --with-python-dir=/share/gcc-data/x86\_64-pc-linux-gnu/13/python --without-isl --without-zstd

Processor Notes: Scaling Governor: amd-pstate-epp performance (EPP: performance) - CPU Microcode: 0x8701030

Security Notes: gather\_data\_sampling: Not affected + itlb\_multihit: Not affected + l1tf: Not affected + mds: Not affected + meltdown: Not affected + mmio\_stale\_data: Not affected + reg\_file\_data\_sampling: Not affected + retbleed: Vulnerable + spec\_rstack\_overflow: Vulnerable + spec\_store\_bypass: Vulnerable + spectre\_v1: Vulnerable: \_\_user pointer sanitization and usercopy barriers only; no swapgs barriers + spectre\_v2: Vulnerable; IBPB: disabled; STIBP: disabled; PBRB-elBRS: Not affected; BHI: Not affected + srbds: Not affected + tsx\_async\_abort: Not affected

	-marc h=zn ver2	-O2	-O3	-fcf-p rotect ion=n one	-fdata -secti ons	-fdire ct-ac cess- exter nal-d	-ffp-c ontra ct=fa st	-ffast- math	-ffunc tion-s ectio ns	-flto	-fno-c omm on	-fno-p lt	-fno-s anitiz e=all	-fno-s eman tic-int erpos ition	-fno-s tack- prote ctor	-O2 -ffast- math
Himeno Benchmark - P.P.S (MFLOPS)	655.5 67213	4784	4935	4886	4940	4993	4920	8612	8408	8381	8489	8371	8613	8502	8553	8067
Normalized	7.61%	55.54%	57.3%	56.73%	57.36%	57.97%	57.12%	99.99%	97.62%	97.31%	98.56%	97.19%	100%	98.71%	99.3%	93.66%
Standard Deviation	0.1%	2.5%	2.5%	2.4%	3.1%	0.6%	1.9%	0.7%	2.3%	0.9%	0.5%	2%	2.2%	1%	1.2%	1%



*This file was automatically generated via the Phoronix Test Suite benchmarking software on Saturday, 8 June 2024 21:26.*