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# Scimark Macbook Pro Retina 2012

FreeBSD 12.2 Clang 10.0.1

**Automated Executive Summary**

*Gentoo 5.6.4 NOPTI Clang 9.0.1 O3 ivybridge had the most wins, coming in first place for 33% of the tests.*

## Test Systems:

### Xcode 10

### Xcode 10 O2

### Xcode 10 O3

### Xcode 10 Ofast

## Xcode 10 O2 march=ivybridge

## Xcode 10 GCC 6

## GCC 6 O2

## GCC 6 O3

## GCC 6 Ofast

## GCC 6 O2 march=ivybridge

## GCC 7

## GCC 7 O2

## GCC 7 O2 march=ivybridge

## GCC 7 O3

## GCC 7 Ofast

## GCC 8

## GCC 8 O2

## GCC O3

## GCC 8 Ofast

## GCC 8 O2 march=ivybridge

## GCC 9

## GCC 9 O2

## GCC 9 O3

## GCC 9 Ofast

Processor: Intel Core i7 @ 2.30GHz (4 Cores / 8 Threads), Motherboard: Apple MacBook Pro, Chipset: Intel 7, Memory: 2 x 4 GB DDR3-1600MHz, Disk: 251GB APPLE SSD SM256E, Graphics: Intel HD 4000 + NVIDIA GeForce GT 650M 2GB, Monitor: Color LCD

OS: macOS 10.13.6, Kernel: 17.7.0 (x86_64), Display Server: X Server 1.18.4, OpenGL: 2.1, Compiler: Clang 8.0.0 + GCC 4.2.1 + LLVM 8.0.0 + Xcode 10.1 + CUDA 10.1, File-System: MS-DOS FAT16, Screen Resolution: 2880x1800

Environment Notes: CPPFLAGS=-march=ivybridge-mtune=ivybridge XPC_FLAGS=0x0 CFLAGS=-march=ivybridge-mtune=ivybridge
Compiler Notes: --build=x86_64-apple-darwin17.7.0 --disable-multilib --enable-checking=release --enable-languages=c,c++,objc,obj-c++,fortran --enable-nls --with-gmp=/usr/local/opt/gmp --with-mpc=/usr/local/opt/libmpc --with-mpfr=/usr/local/opt/mpfr

## Clang 6

## Clang 6 O2

## Clang 6 O3

## Clang 6 Ofast

Processor: Intel Core i7 @ 2.30GHz (4 Cores / 8 Threads), Motherboard: Apple MacBook Pro, Chipset: Intel 7, Memory: 2 x 4 GB DDR3-1600MHz, Disk: 251GB APPLE SSD SM256E, Graphics: Intel HD 4000 + NVIDIA GeForce GT 650M 2GB, Monitor: Color LCD

OS: macOS 10.13.6, Kernel: 17.7.0 (x86_64), Display Server: X Server 1.18.4, OpenGL: 2.1, Compiler: Clang 6.0.1 + GCC 4.2.1 + LLVM 6.0.1 + Xcode 10.1 + CUDA 10.1, File-System: MS-DOS FAT16, Screen Resolution: 2880x1800

Environment Notes: LDFLAGS=-L/usr/local/opt/llvm@6/lib-Wl-rpath /usr/local/opt/llvm@6/lib CPPFLAGS=-I/usr/local/opt/llvm@6/ lude XPC_FLAGS=0x0
Compiler Notes: Optimized build; Default target: x86_64-apple-darwin17.7.0; Host CPU: ivybridge

## Clang 6 O2 march=ivybridge

Processor: Intel Core i7 @ 2.30GHz (4 Cores / 8 Threads), Motherboard: Apple MacBook Pro, Chipset: Intel 7, Memory: 2 x 4 GB DDR3-1600MHz, Disk: 251GB APPLE SSD SM256E, Graphics: Intel HD 4000 + NVIDIA GeForce GT 650M 2GB, Monitor: Color LCD

OS: macOS 10.13.6, Kernel: 17.7.0 (x86_64), Display Server: X Server 1.18.4, OpenGL: 2.1, Compiler: Clang 8.0.0 + GCC 4.2.1 + LLVM 8.0.0 + Xcode 10.1 + CUDA 10.1, File-System: MS-DOS FAT16, Screen Resolution: 2880x1800

Environment Notes: LDFLAGS=-L/usr/local/opt/llvm@6/lib-Wl-rpath /usr/local/opt/llvm@6/lib CPPFLAGS=-march=ivybridge-mtune=ivybridge XPC_FLAGS=0x0 CFLAGS=-march=ivybridge-mtune=ivybridge
Compiler Notes: Optimized build; Default target: x86_64-apple-darwin17.7.0; Host CPU: ivybridge

## Clang 7

## Clang 7 O2

## Clang 7 O3

## Clang 7 Ofast

Processor: Intel Core i7 @ 2.30GHz (4 Cores / 8 Threads), Motherboard: Apple MacBook Pro, Chipset: Intel 7, Memory: 2 x 4 GB DDR3-1600MHz, Disk: 251GB APPLE SSD SM256E, Graphics: Intel HD 4000 + NVIDIA GeForce GT 650M 2GB, Monitor: Color LCD

OS: macOS 10.13.6, Kernel: 17.7.0 (x86_64), Display Server: X Server 1.18.4, OpenGL: 2.1, Compiler: Clang 7.0.1 + GCC 4.2.1 + LLVM 7.0.1 + Xcode 10.1 + CUDA 10.1, File-System: MS-DOS FAT16, Screen Resolution: 2880x1800

Environment Notes: LDFLAGS=-L/usr/local/opt/llvm@7/lib-Wl-rpath /usr/local/opt/llvm@7/lib CPPFLAGS=-I/usr/local/opt/llvm@7/ lude XPC_FLAGS=0x0
Compiler Notes: Optimized build; Default target: x86_64-apple-darwin17.7.0; Host CPU: ivybridge

## Clang 7 O2 march=ivybridge

## Clang 8

## Clang 8 O2

## Clang 8 O3

## Clang 8 Ofast

## Clang 8 O2 march=ivybridge

Processor: Intel Core i7 @ 2.30GHz (4 Cores / 8 Threads), Motherboard: Apple MacBook Pro, Chipset: Intel 7, Memory: 2 x 4 GB DDR3-1600MHz, Disk: 251GB APPLE SSD SM256E, Graphics: Intel HD 4000 + NVIDIA GeForce GT 650M 2GB, Monitor: Color LCD

OS: macOS 10.13.6, Kernel: 17.7.0 (x86_64), Display Server: X Server 1.18.4, OpenGL: 2.1, Compiler: Clang 8.0.0 + GCC 4.2.1 + LLVM 8.0.0 + Xcode 10.1 + CUDA 10.1, File-System: MS-DOS FAT16, Screen Resolution: 2880x1800

Environment Notes: LDFLAGS=-Wl-mllvm-threads=8 CPPFLAGS=-march=ivybridge-mtune=ivybridge XPC_FLAGS=0x0 CFLAGS=-march=ivybridge-mtune=ivybridge
Compiler Notes: Optimized build; Default target: x86_64-apple-darwin17.7.0; Host CPU: ivybridge

## Archlinux GCC 8.2

## Archlinux GCC 8.2 V2

## Archlinux GCC 8.2 O3

Processor: Intel Core i7-3615QM @ 3.30GHz (4 Cores / 8 Threads), Motherboard: Apple Mac-C3EC7CD22292981F (251.0.0.0.0 BIOS), Chipset: Intel 3rd Gen Core DRAM, Memory: 8192MB, Disk: 251GB APPLE SSD SM256E, Graphics: NVIDIA GeForce GT 650M 1GB (797/2508MHz), Audio: Cirrus Logic CS4206, Monitor: Color LCD, Network: Broadcom NetXtreme BCM57786 PCIe + Broadcom BCM4331 802.11a/b/g/n

OS: Antergos Linux 19.3-ISO-Rolling, Kernel: 5.0.4-arch1-1-ARCH (x86_64), Desktop: Cinnamon 4.0.10, Display Server: X Server 1.20.4, Display Driver: NVIDIA 418.56, OpenGL: 4.6.0, Vulkan: 1.1.95, Compiler: GCC 8.2.1 20181127 + Clang 7.0.1 + LLVM 7.0.1 + CUDA 10.0, File-System: ext4, Screen Resolution: 2880x1800

Processor Notes: Scaling Governor: intel_pstate performance
Security Notes: KPTI + __user pointer sanitization + Full generic retpoline IBPB: conditional IBRS_FW STIBP: conditional RSB filling + SSB disabled via prctl and seccomp + PTE Inversion; VMX: conditional cache flushes SMT vulnerable

## Archlinux Clang 7

## Archlinux Clang 7 O3

Processor: Intel Core i7-3615QM @ 3.30GHz (4 Cores / 8 Threads), Motherboard: Apple Mac-C3EC7CD22292981F (251.0.0.0.0 BIOS), Chipset: Intel 3rd Gen Core DRAM, Memory: 8192MB, Disk: 251GB APPLE SSD SM256E, Graphics: NVIDIA GeForce GT 650M 1GB (797/2508MHz), Audio: Cirrus Logic CS4206, Monitor: Color LCD, Network: Broadcom NetXtreme BCM57786 PCIe + Broadcom BCM4331 802.11a/b/g/n

OS: Antergos Linux 19.3-ISO-Rolling, Kernel: 5.0.4-arch1-1-ARCH (x86_64), Desktop: Cinnamon 4.0.10, Display Server: X Server 1.20.4, Display Driver: NVIDIA 418.56, OpenGL: 4.6.0, Vulkan: 1.1.95, Compiler: Clang 7.0.1 + GCC 8.2.1 20181127 + LLVM 7.0.1 + CUDA 10.0, File-System: ext4, Screen Resolution: 2880x1800

Compiler Notes: Optimized build; Default target: x86_64-pc-linux-gnu; Host CPU: ivybridge
Processor Notes: Scaling Governor: intel_pstate performance
Security Notes: KPTI + __user pointer sanitization + Full generic retpoline IBPB: conditional IBRS_FW STIBP: conditional RSB filling + SSB disabled via prctl and seccomp + PTE Inversion; VMX: conditional cache flushes SMT vulnerable

## Gentoo 5.1.1 NOPTI GCC 8.3 02 ivybridge

## Gentoo 5.1.1 NOPTI GCC 8.3 03 ivybridge

Processor: Intel Core i7-3615QM @ 3.30GHz (4 Cores / 8 Threads), Motherboard: Apple Mac-C3EC7CD22292981F (253.0.0.0.0 BIOS), Chipset: Intel 3rd Gen Core DRAM, Memory: 8192MB, Disk: 251GB APPLE SSD SM256E, Graphics: Intel NVIDIA NVE7 1GB (1200MHz), Audio: Cirrus Logic CS4206, Monitor: Color LCD, Network: Broadcom NetXtreme BCM57786 PCIe + Broadcom BCM4331 802.11a/b/g/n

OS: Gentoo/Linux, Kernel: 5.1.1-gentoo (x86_64), Desktop: MATE 1.22.0, Display Server: X Server 1.20.4, Display Driver: nouveau 1.0.16, Compiler: GCC 8.3.0 + Clang 8.0.0 + LLVM 8.0.0, File-System: ext4, Screen Resolution: 2880x1800

Environment Notes: CFLAGS=-march=ivybridge-mtune=ivybridge-O3 CXXFLAGS=-march=ivybridge-mtune=ivybridge-O3
Processor Notes: Scaling Governor: intel_pstate performance
Security Notes: __user pointer sanitization + disabled STIBP: disabled + PTE Inversion

## Clear Linux GCC 9 O2 ivybridge

## Clear Linux GCC 9 O3 ivybridge

## Clear Linux GCC 9 Ofast ivybridge

Processor: Intel Core i7-3615QM @ 3.30GHz (4 Cores / 8 Threads), Motherboard: Apple Mac-C3EC7CD22292981F (253.0.0.0.0 BIOS), Chipset: Intel 3rd Gen Core DRAM, Memory: 8192MB, Disk: 251GB APPLE SSD SM256E, Graphics: NVIDIA NVE7 1GB (1200MHz), Audio: Cirrus Logic CS4206, Monitor: Color LCD, Network: Broadcom NetXtreme BCM57786 PCIe + Broadcom NetXtreme BCM57762 PCIe + Broadcom BCM4331 802.11a/b/g/n

OS: Clear Linux OS 29540, Kernel: 5.0.17-765.native (x86_64), Desktop: Xfce 4.12, Display Server: X Server 1.20.4, Display Driver: nouveau 1.0.16, OpenGL: 4.3 Mesa 19.2.0-devel, Vulkan: 1.1.102, Compiler: GCC 9.1.1 20190520 gcc-9-branch@271393 + Clang 8.0.0 + LLVM 8.0.0, File-System: ext4, Screen Resolution: 2880x1800

Environment Notes: CFFLAGS=-g-O3-feliminate-unused-debug-types-pipe-Wall-Wp-D_FORTIFY_SOURCE=2-fexceptions-fstack-protector--param=ssp-buffer-size=32-m64-fasynchronous-unwind-tables-Wp-D_REENTRANT-ftree-loop-distribute-patterns-Wl-z-Wl now-Wl-z-Wl relro-malign-data=abi-fno-semantic-interposition-ftree-vectorize-ftree-loop-vectorize-Wl-sort-common-Wl--enable-new-dtags FFLAGS=-g-O3-feliminate-unused-debug-types-pipe-Wall-Wp-D_FORTIFY_SOURCE=2-fexceptions-fstack-protector--param=ssp-buffer-size=32-m64-fasynchronous-unwind-tables-Wp-D_REENTRANT-ftree-loop-distribute-patterns-Wl-z-Wl relro-malign-data=abi-fno-semantic-interposition-ftree-vectorize-ftree-loop-vectorize-Wl--enable-new-dtags CXXFLAGS=-march=ivybridge-mtune=ivybridge-O2 MESA_GLSL_CACHE_DISABLE=0 CFLAGS=-march=ivybridge-mtune=ivybridge-O2 THEANO_FLAGS=floatX=float32 openmp=true gcc.cxxflags="-ftree-vectorize-mavx"
Compiler Notes: --build=x86_64-generic-linux --disable-libmpx --disable-libunwind-exceptions --disable-multiarch --disable-vtable-verify --disable-werror --enable-__cxa_atexit --enable-bootstrap --enable-cet --enable-clocale=gnu --enable-default-pie --enable-gnu-indirect-function --enable-languages=c,c++,fortran,go --enable-ld=default --enable-libstdcxx-pch --enable-lto --enable-multilib --enable-plugin --enable-shared --enable-threads=posix --exec-prefix=/usr --includedir=/usr/include --target=x86_64-generic-linux --with-arch=westmere --with-gcc-major-version-only --with-glibc-version=2.19 --with-gnu-ld --with-isl --with-ppl=yes --with-tune=haswell
Processor Notes: Scaling Governor: intel_pstate performance
Security Notes: l1tf: Mitigation of PTE Inversion; VMX: conditional cache flushes SMT vulnerable + mds: Vulnerable: Clear buffers attempted no microcode; SMT vulnerable + meltdown: Mitigation of PTI + spec_store_bypass: Mitigation of SSB disabled via prctl and seccomp + spectre_v1: Mitigation of __user pointer sanitization + spectre_v2: Mitigation of Full generic retpoline IBPB: conditional IBRS_FW STIBP: conditional RSB filling

## Gentoo 5.6.4 NOPTI GCC 9.3 O2 ivybridge

Processor: Intel Core i7-3615QM @ 3.30GHz (4 Cores / 8 Threads), Motherboard: Apple Mac-C3EC7CD22292981F (259.0.0.0.0 BIOS), Chipset: Intel 3rd Gen Core DRAM, Memory: 8GB, Disk: 251GB APPLE SSD SM256E, Graphics: NVIDIA GeForce GT 650M 1GB (797/2508MHz), Audio: Cirrus Logic CS4206, Monitor: Color LCD, Network: Broadcom NetXtreme BCM57786 PCIe + Broadcom BCM4331 802.11a/b/g/n

OS: Gentoo 2.6, Kernel: 5.6.4-gentoo-x86_64 (x86_64), Desktop: LXQt 0.14.1, Display Server: X Server 1.20.7, Display Driver: NVIDIA 440.82, OpenGL: 4.6.0, OpenCL: OpenCL 1.2 CUDA 10.2.159, Compiler: GCC 9.3.0 + Clang 9.0.1 +

LLVM 9.0.1 + CUDA 10.2, File-System: ext4, Screen Resolution: 2880x1800

Environment Notes: CFLAGS="-march=ivybridge -O2 -pipe -falign-functions=32" CXXFLAGS="-march=ivybridge -O2 -pipe -falign-functions=32" LDFLAGS="-Wl,-O2 -Wl,--as-needed"
Processor Notes: Scaling Governor: intel_pstate performance - CPU Microcode: 0x21
Security Notes: itlb_multihit: KVM: Vulnerable + l1tf: Mitigation of PTE Inversion; VMX: vulnerable + mds: Vulnerable; SMT vulnerable + meltdown: 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 + tsx_async_abort: Not affected

## Gentoo 5.6.4 NOPTI Clang 9.0.1 O2 ivybridge

Processor: Intel Core i7-3615QM @ 3.30GHz (4 Cores / 8 Threads), Motherboard: Apple Mac-C3EC7CD22292981F (259.0.0.0.0 BIOS), Chipset: Intel 3rd Gen Core DRAM, Memory: 8GB, Disk: 251GB APPLE SSD SM256E, Graphics: NVIDIA GeForce GT 650M 1GB (797/2508MHz), Audio: Cirrus Logic CS4206, Monitor: Color LCD, Network: Broadcom NetXtreme BCM57786 PCIe + Broadcom BCM4331 802.11a/b/g/n

OS: Gentoo 2.6, Kernel: 5.6.4-gentoo-x86_64 (x86_64), Desktop: LXQt 0.14.1, Display Server: X Server 1.20.7, Display Driver: NVIDIA 440.82, OpenGL: 4.6.0, OpenCL: OpenCL 1.2 CUDA 10.2.159, Compiler: Clang 9.0.1 + GCC 9.3.0 + LLVM 9.0.1 + CUDA 10.2, File-System: ext4, Screen Resolution: 2880x1800

Environment Notes: CFLAGS="-march=ivybridge -O2 -pipe -falign-functions=32" CXXFLAGS="-march=ivybridge -O2 -pipe -falign-functions=32" LDFLAGS="-Wl,-O2 -Wl,--as-needed"
Compiler Notes: Optimized build; Default target: x86_64-pc-linux-gnu; Host CPU: ivybridge
Processor Notes: Scaling Governor: intel_pstate performance - CPU Microcode: 0x21
Security Notes: itlb_multihit: KVM: Vulnerable + l1tf: Mitigation of PTE Inversion; VMX: vulnerable + mds: Vulnerable; SMT vulnerable + meltdown: 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 + tsx_async_abort: Not affected

## Gentoo 5.6.4 NOPTI GCC 9.3 O3 ivybridge

Processor: Intel Core i7-3615QM @ 3.30GHz (4 Cores / 8 Threads), Motherboard: Apple Mac-C3EC7CD22292981F (259.0.0.0.0 BIOS), Chipset: Intel 3rd Gen Core DRAM, Memory: 8GB, Disk: 251GB APPLE SSD SM256E, Graphics: NVIDIA GeForce GT 650M 1GB (797/2508MHz), Audio: Cirrus Logic CS4206, Monitor: Color LCD, Network: Broadcom NetXtreme BCM57786 PCIe + Broadcom BCM4331 802.11a/b/g/n

OS: Gentoo 2.6, Kernel: 5.6.4-gentoo-x86_64 (x86_64), Desktop: LXQt 0.14.1, Display Server: X Server 1.20.7, Display Driver: NVIDIA 440.82, OpenGL: 4.6.0, OpenCL: OpenCL 1.2 CUDA 10.2.159, Compiler: GCC 9.3.0 + Clang 9.0.1 + LLVM 9.0.1 + CUDA 10.2, File-System: ext4, Screen Resolution: 2880x1800

Environment Notes: CFLAGS="-march=ivybridge -O3 -pipe -falign-functions=32" CXXFLAGS="-march=ivybridge -O3 -pipe -falign-functions=32" LDFLAGS="-Wl,-O2 -Wl,--as-needed"
Processor Notes: Scaling Governor: intel_pstate performance - CPU Microcode: 0x21
Security Notes: itlb_multihit: KVM: Vulnerable + l1tf: Mitigation of PTE Inversion; VMX: vulnerable + mds: Vulnerable; SMT vulnerable + meltdown: 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 + tsx_async_abort: Not affected

## Gentoo 5.6.4 NOPTI Clang 9.0.1 O3 ivybridge

Processor: Intel Core i7-3615QM @ 3.30GHz (4 Cores / 8 Threads), Motherboard: Apple Mac-C3EC7CD22292981F (259.0.0.0.0 BIOS), Chipset: Intel 3rd Gen Core DRAM, Memory: 8GB, Disk: 251GB APPLE SSD SM256E, Graphics: NVIDIA GeForce GT 650M 1GB (797/2508MHz), Audio: Cirrus Logic CS4206, Monitor: Color LCD, Network: Broadcom NetXtreme BCM57786 PCIe + Broadcom BCM4331 802.11a/b/g/n

OS: Gentoo 2.6, Kernel: 5.6.4-gentoo-x86_64 (x86_64), Desktop: LXQt 0.14.1, Display Server: X Server 1.20.7, Display Driver: NVIDIA 440.82, OpenGL: 4.6.0, OpenCL: OpenCL 1.2 CUDA 10.2.159, Compiler: Clang 9.0.1 + GCC 9.3.0 + LLVM 9.0.1 + CUDA 10.2, File-System: ext4, Screen Resolution: 2880x1800

Environment Notes: CFLAGS="-march=ivybridge -O3 -pipe -falign-functions=32" CXXFLAGS="-march=ivybridge -O3 -pipe -falign-functions=32" LDFLAGS="-Wl,-O2

-Wl,--as-needed"
Compiler Notes: Optimized build; Default target: x86_64-pc-linux-gnu; Host CPU: ivybridge
Processor Notes: Scaling Governor: intel_pstate performance - CPU Microcode: 0x21
Security Notes: itlb_multihit: KVM: Vulnerable + l1tf: Mitigation of PTE Inversion; VMX: vulnerable + mds: Vulnerable; SMT vulnerable + meltdown: 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 + tsx_async_abort: Not affected

## Gentoo 5.6.4 NOPTI GCC 9.3 O3 G-overlay ivybridge

Processor: Intel Core i7-3615QM @ 3.30GHz (4 Cores / 8 Threads), Motherboard: Apple Mac-C3EC7CD22292981F (259.0.0.0.0 BIOS), Chipset: Intel 3rd Gen Core DRAM, Memory: 8GB, Disk: 251GB APPLE SSD SM256E, Graphics: NVIDIA GeForce GT 650M 1GB (797/2508MHz), Audio: Cirrus Logic CS4206, Monitor: Color LCD, Network: Broadcom NetXtreme BCM57786 PCIe + Broadcom BCM4331 802.11a/b/g/n

OS: Gentoo 2.6, Kernel: 5.6.4-gentoo-x86_64 (x86_64), Desktop: LXQt 0.14.1, Display Server: X Server 1.20.7, Display Driver: NVIDIA 440.82, OpenGL: 4.6.0, OpenCL: OpenCL 1.2 CUDA 10.2.159, Compiler: GCC 9.3.0 + Clang 9.0.1 + LLVM 9.0.1 + CUDA 10.2, File-System: ext4, Screen Resolution: 2880x1800

Environment Notes: CFLAGS="-march=ivybridge -O3 -pipe -falign-functions=32 -flto -fipa-pta -fgraphite-identity -floop-nest-optimize -fdevirtualize-at-ltrans" CXXFLAGS="-march=ivybridge -O3 -pipe -falign-functions=32 -flto -fipa-pta -fgraphite-identity -floop-nest-optimize -fdevirtualize-at-ltrans" LDFLAGS="-Wl,-O2 -Wl,--as-needed"
Processor Notes: Scaling Governor: intel_pstate performance - CPU Microcode: 0x21
Security Notes: itlb_multihit: KVM: Vulnerable + l1tf: Mitigation of PTE Inversion; VMX: vulnerable + mds: Vulnerable; SMT vulnerable + meltdown: 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 + tsx_async_abort: Not affected

## FreeBSD 12.1 Clang 8.0.1

Processor: Intel Core i7-3615QM @ 2.30GHz (8 Cores), Motherboard: Apple MacBookPro10 1 1.0, Chipset: Intel 3rd Gen Core DRAM, Memory: 8GB, Disk: 218GB, Graphics: Unknown 981MB, Audio: NVIDIA (0x0e1b) HDA

OS: FreeBSD, Kernel: 12.1-RELEASE (x86_64), Display Server: X Server 1.20.8, Display Driver: modesetting 1.20.8, Compiler: Clang 8.0.1 (SVN 366581), File-System: zfs, Screen Resolution: 2880x1800

Environment Notes: LIBGL_ALWAYS_SOFTWARE=1
Security Notes: KPTI

## FreeBSD 12.2 Clang 10.0.1

Processor: Intel Core i7-3615QM @ 2.30GHz (8 Cores), Motherboard: Apple MacBookPro10 1 1.0, Chipset: Intel 3rd Gen Core DRAM, Memory: 8GB, Disk: 208GB, Graphics: NVIDIA GeForce GT 650M 981MB, Audio: NVIDIA (0x0e1b) HDA, Monitor: Color LCD

OS: FreeBSD, Kernel: 12.2-RELEASE-p1 (x86_64), Desktop: Xfce 4.14, Display Server: X Server 1.20.9, Display Driver: NVIDIA 1.0.0, Compiler: Clang 10.0.1, File-System: zfs, Screen Resolution: 2880x1800

Security Notes: KPTI

## Xcode 12

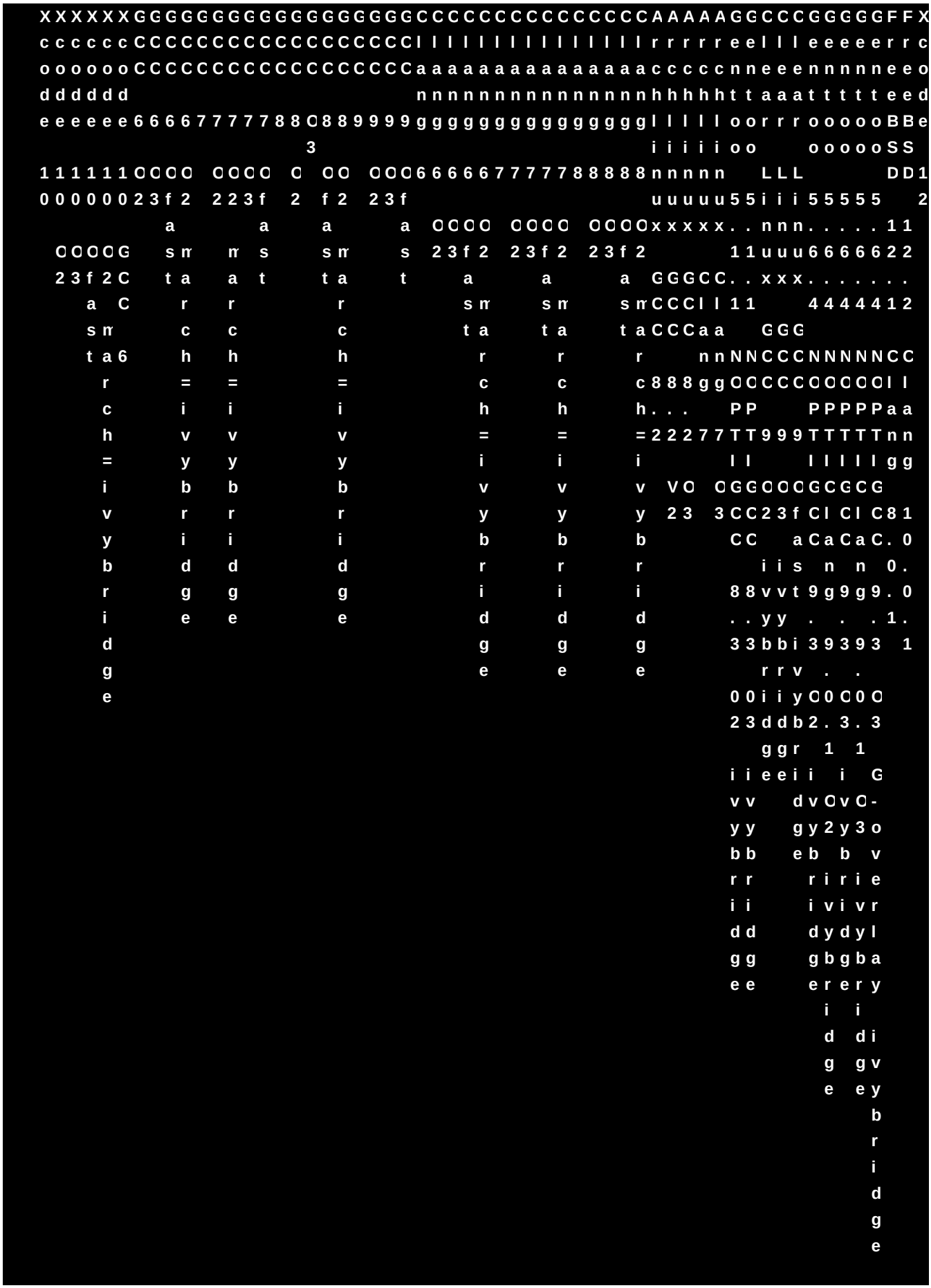
Processor: Intel Core i7-3615QM @ 2.30GHz (4 Cores / 8 Threads), Motherboard: Apple MacBook Pro, Chipset: Intel 7, Memory: 2 x 4 GB DDR3-1600MHz, Disk: 251GB APPLE SSD SM256E, Graphics: Intel HD 4000 + NVIDIA GeForce GT 650M 2GB, Monitor: Color LCD

OS: macOS 10.15.7, Kernel: 19.6.0 (x86_64), Compiler: Clang 12.0.0 + GCC 12.0.0 + Xcode 12.3, File-System: APFS, Screen Resolution: 2880x1800

# Scimark Macbook Pro Retina 2012

Environment Notes: LDFLAGS=-L/usr/local/opt/openssl@1.1/lib CPPFLAGS=-I/usr/local/opt/openssl@1.1/include XPC_FLAGS=0x0
Processor Notes: CPU Microcode: 33

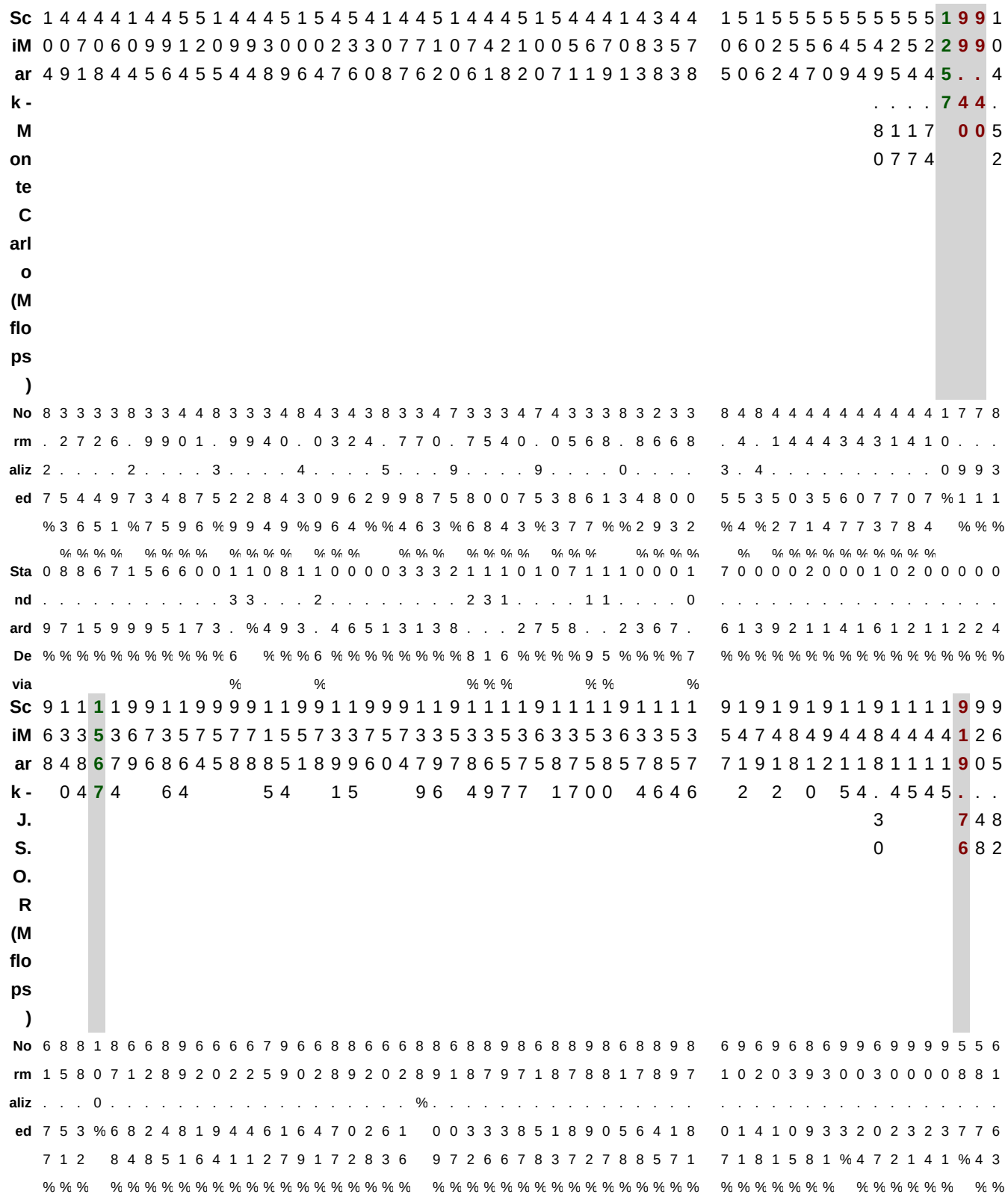
# Scimark Macbook Pro Retina 2012



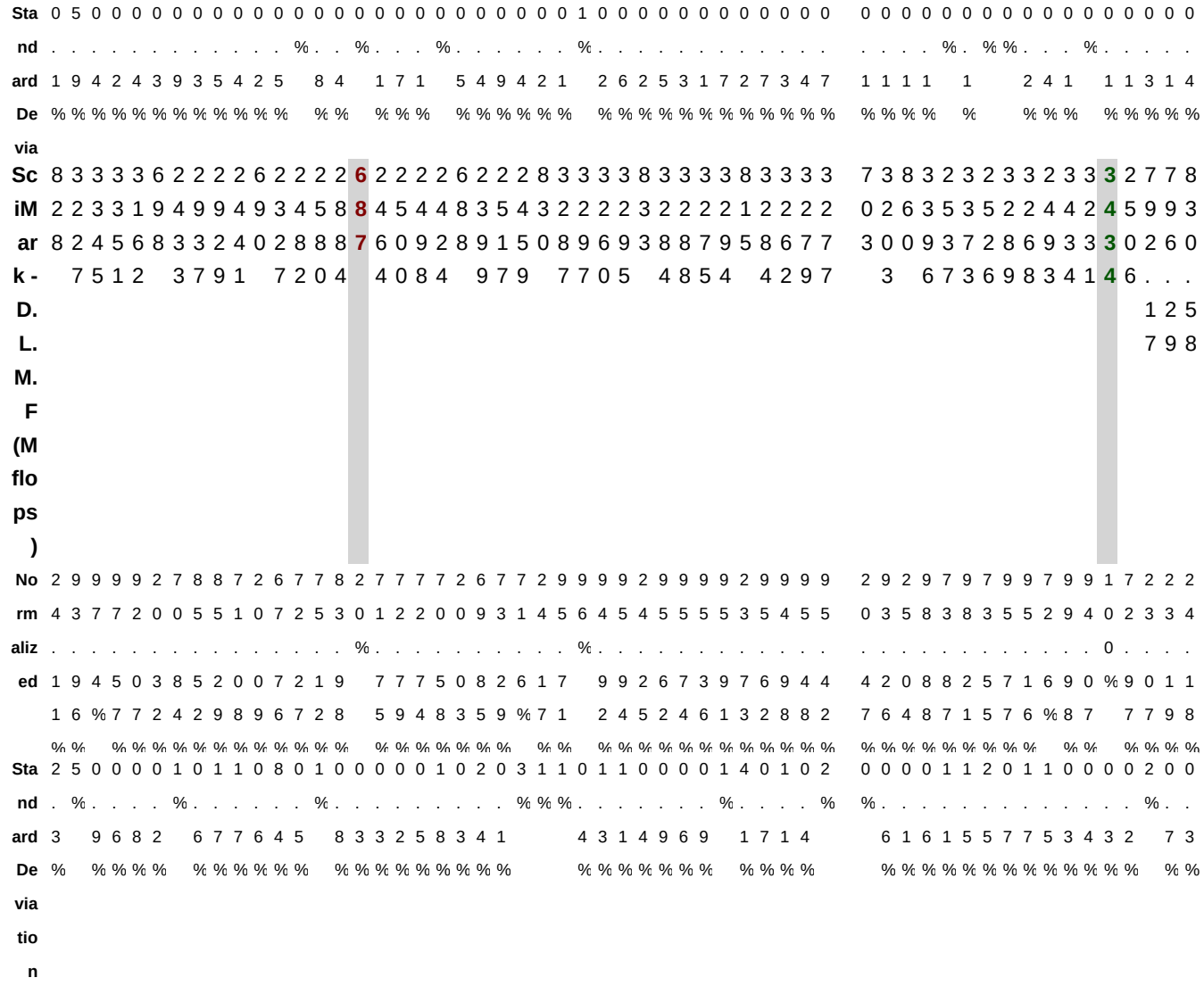
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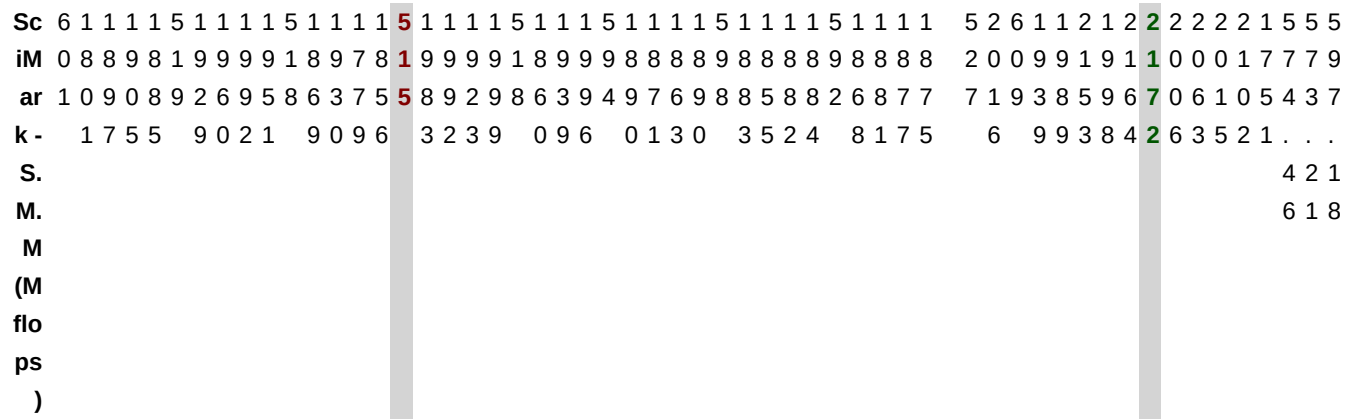
# Scimark Macbook Pro Retina 2012

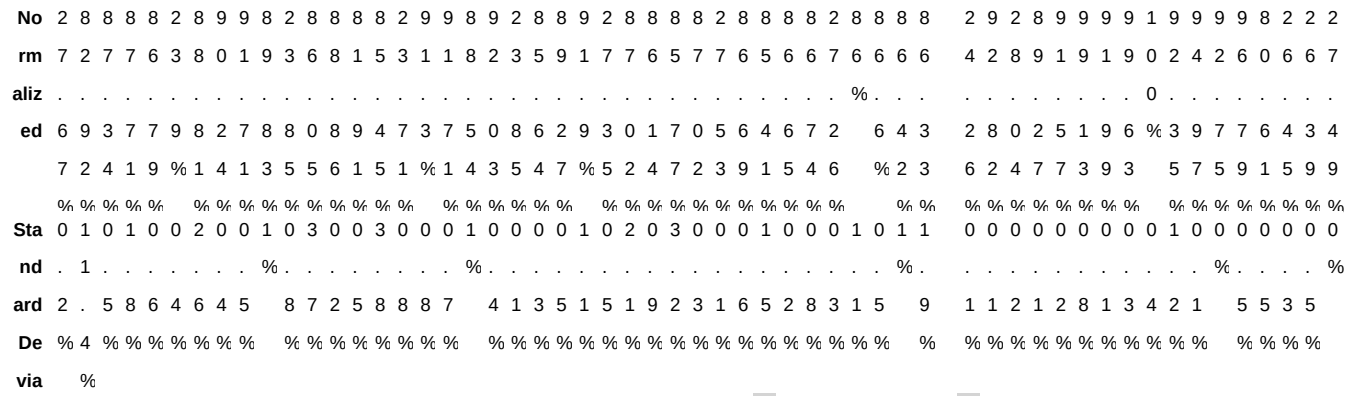


# Scimark Macbook Pro Retina 2012



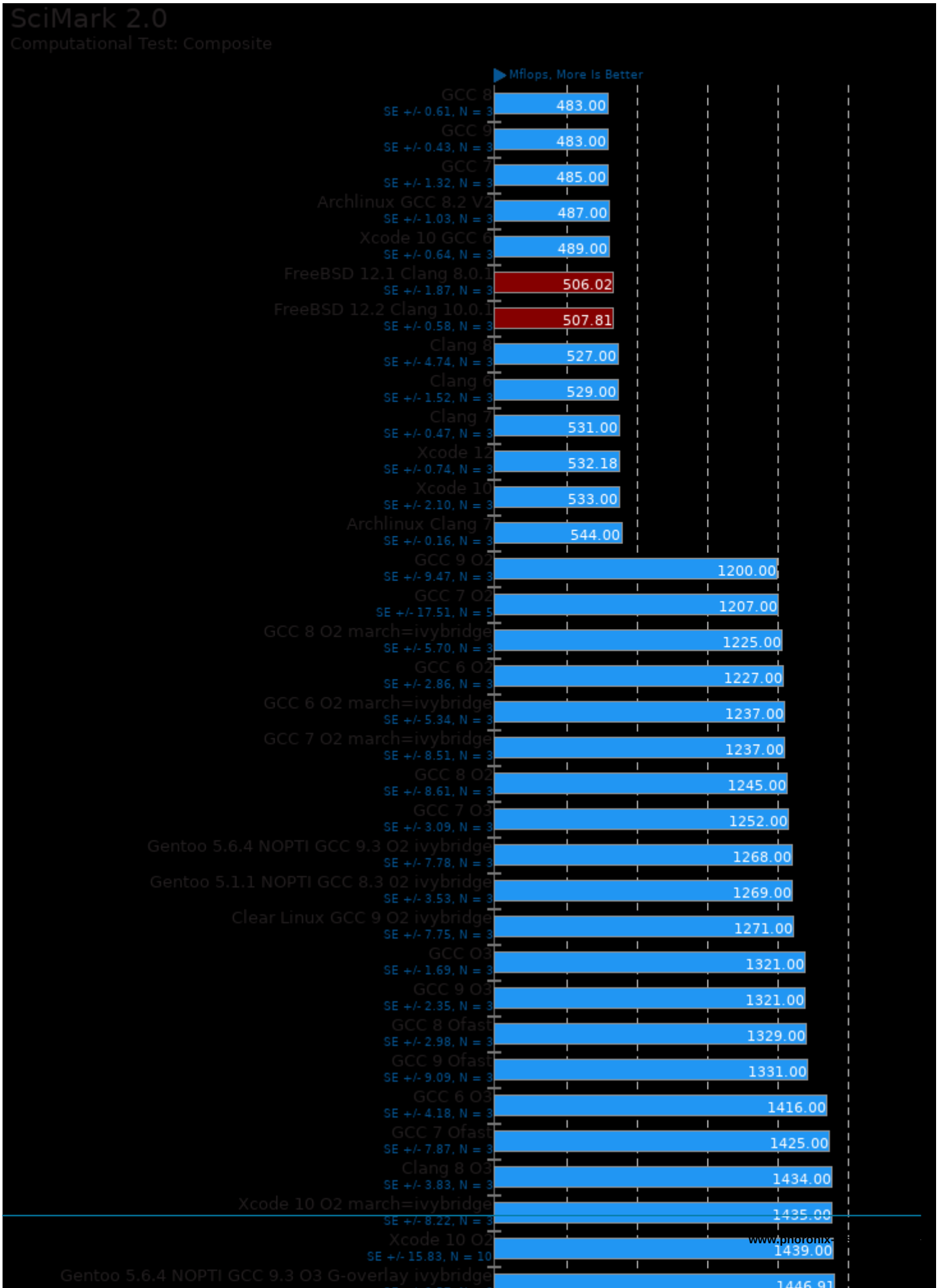
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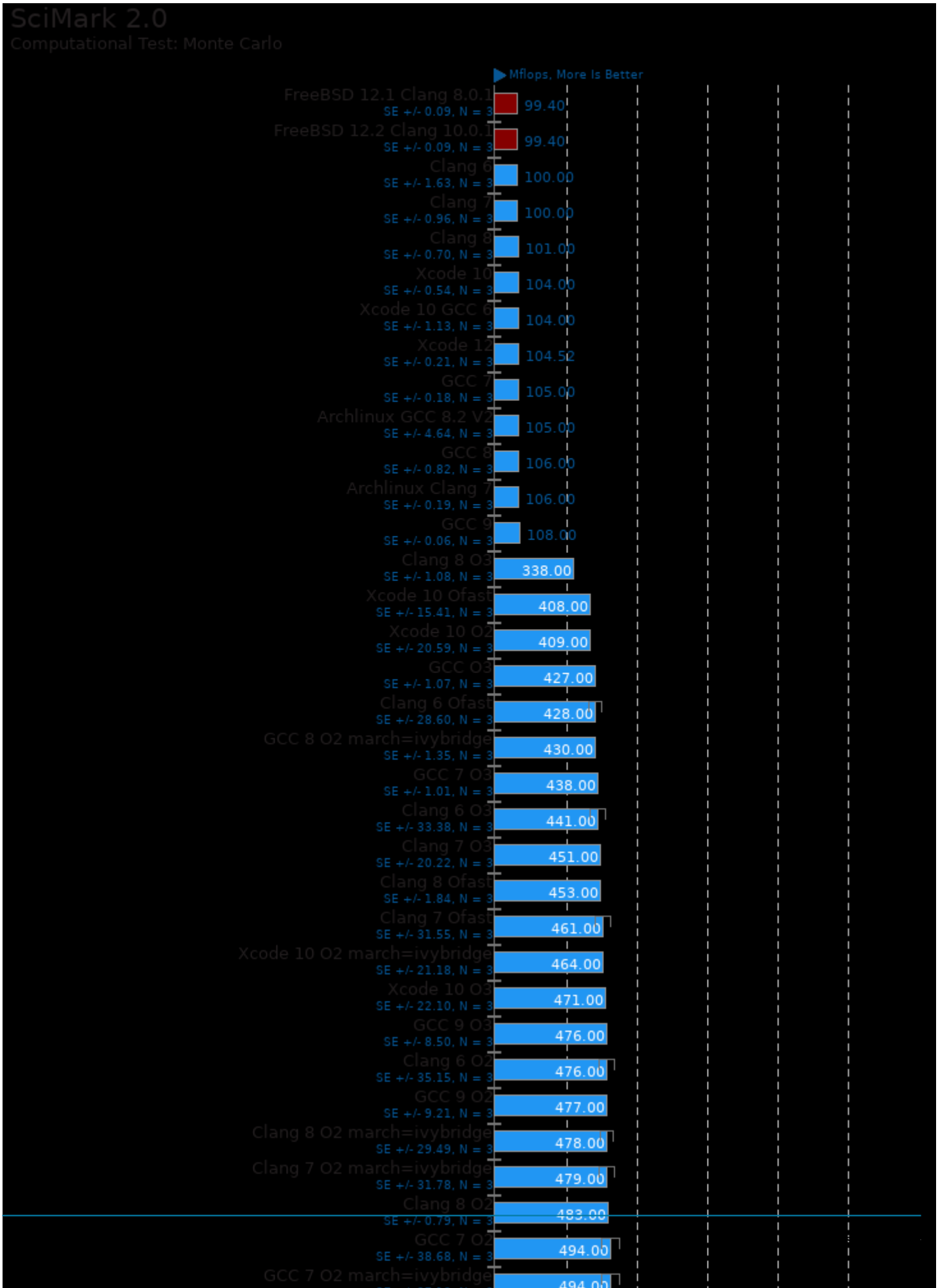



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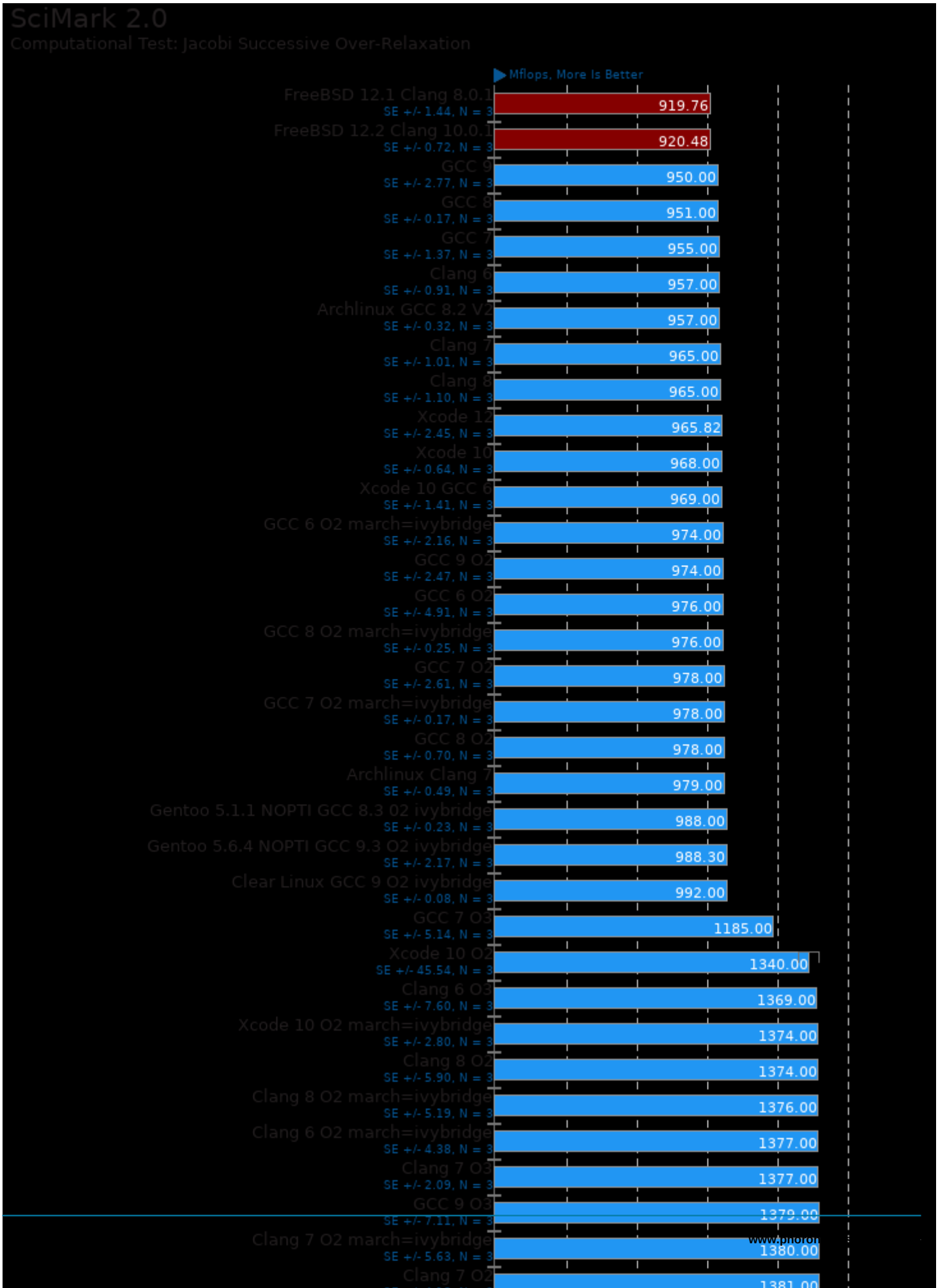
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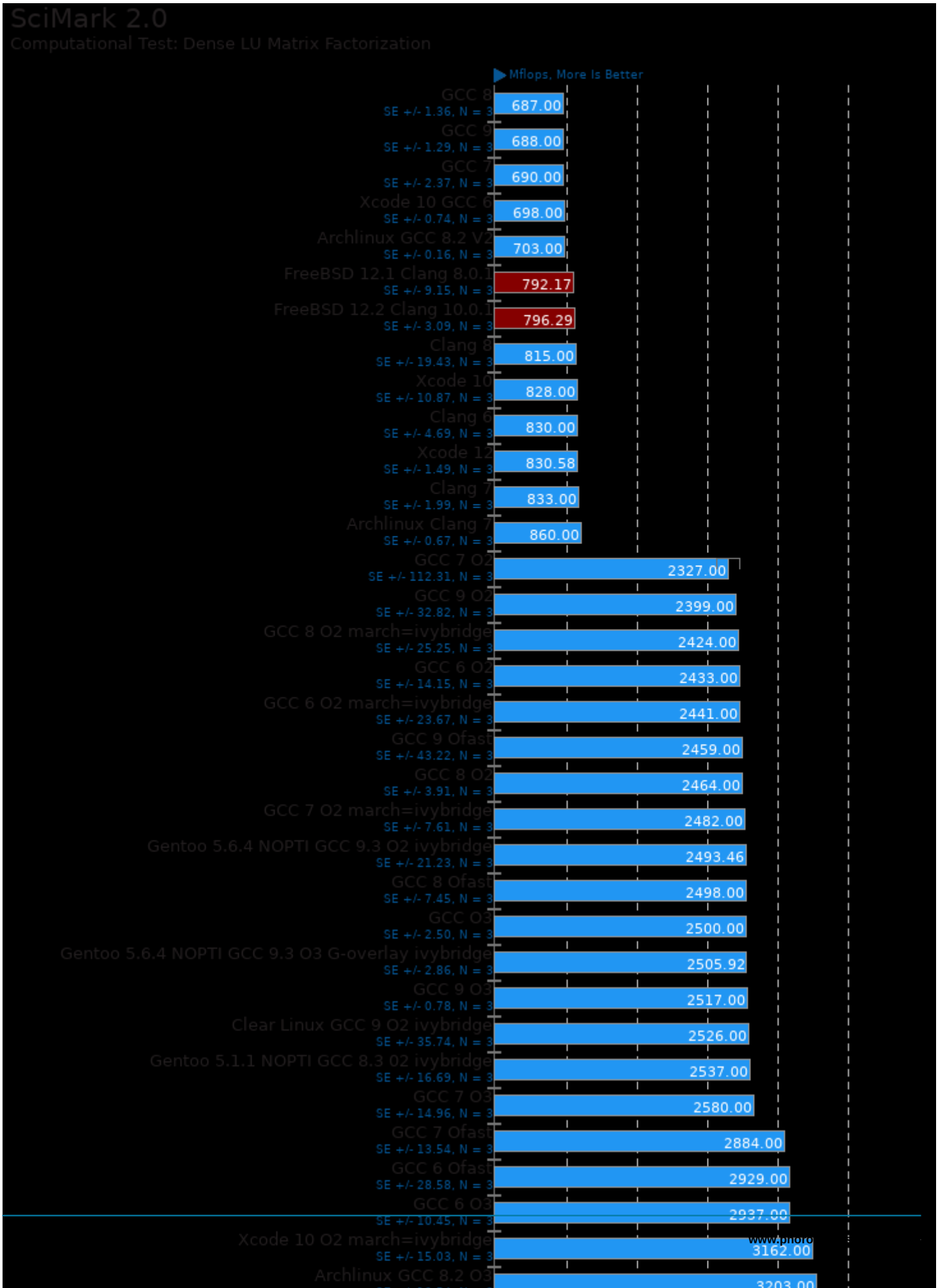
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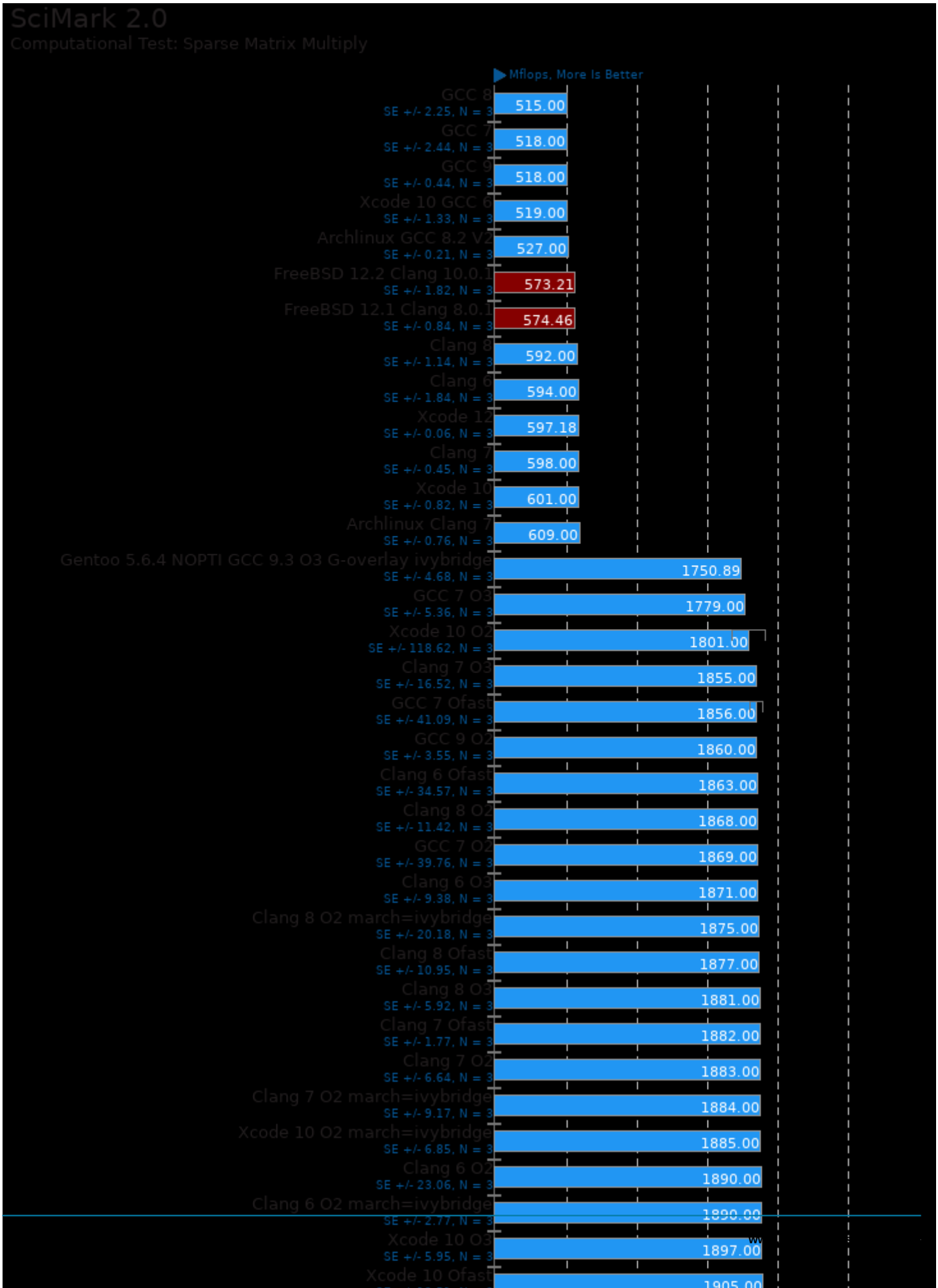
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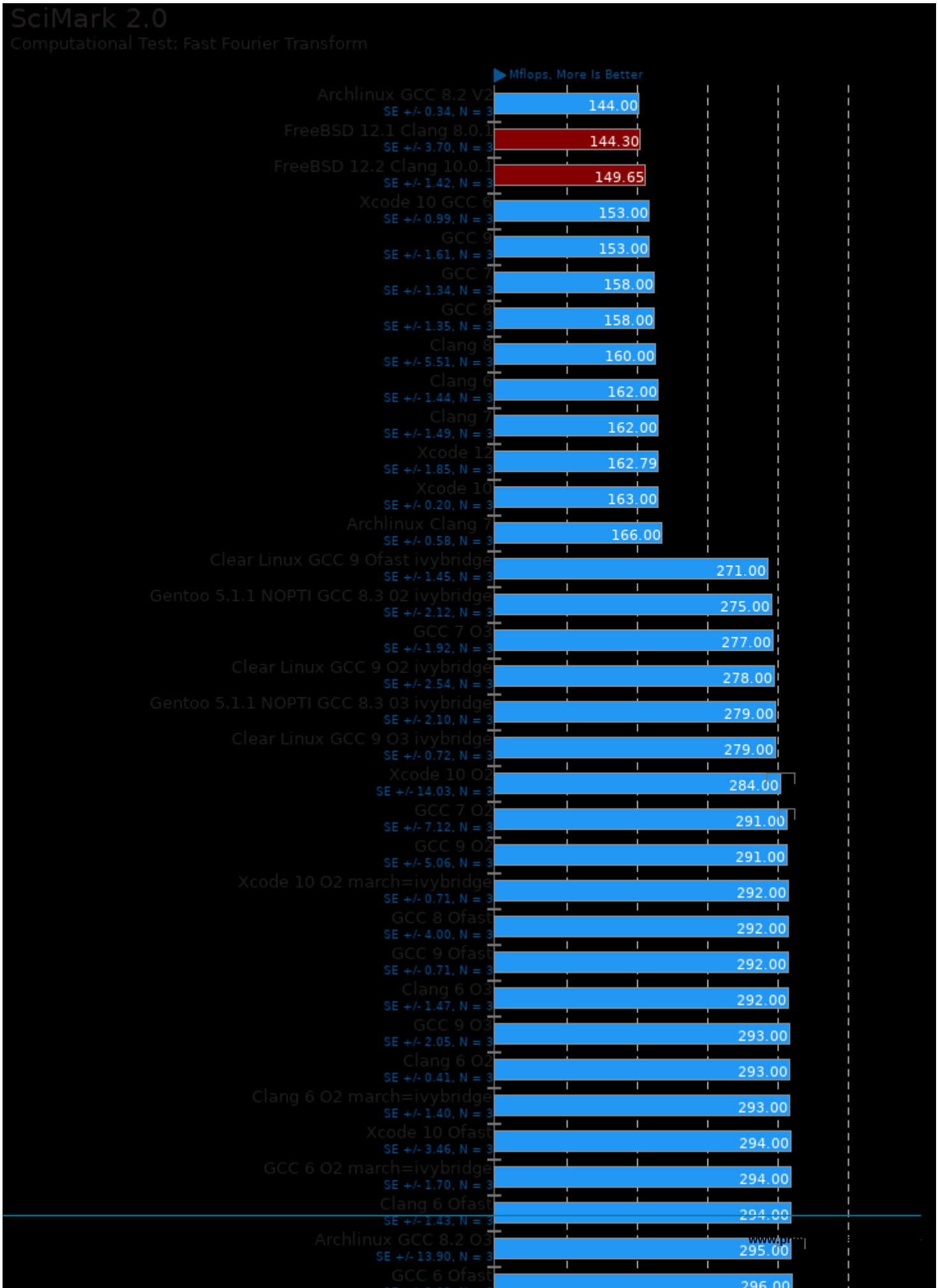
# Scimark Macbook Pro Retina 2012



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