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CPU

Intel Core i7-4790 testing with a Gigabyte P85-D3 (FD BIOS) and Sapphire AMD Radeon R7 370 / R9 270/370 OEM 2048MB on CentOS Linux 7 via the Phoronix Test Suite.

Test Systems:

Average_Computer

Processor: Intel Core i7-4790 @ 4.00GHz (4 Cores / 8 Threads), Motherboard: Gigabyte P85-D3 (FD BIOS), Chipset: Intel 4th Gen Core DRAM, Memory: 2 x 8192 MB DDR3-1600MHz, Disk: 120GB OCZ VERTEX460, Graphics: Sapphire AMD Radeon R7 370 / R9 270/370 OEM 2048MB (300/150MHz), Audio: Creative Labs CA0106/CA0111, Monitor: 919, Network: Intel 82574L Gigabit Connection

OS: CentOS Linux 7, Kernel: 3.10.0-693.el7.x86_64 (x86_64), Display Server: X Server 1.19.3, Display Driver: radeon 7.7.99, OpenGL: 4.5 Mesa 17.0.1 Gallium 0.4 (LLVM 3.9.1), Compiler: GCC 4.8.5 20150623, File-System: xfs, Screen Resolution: 1280x1024

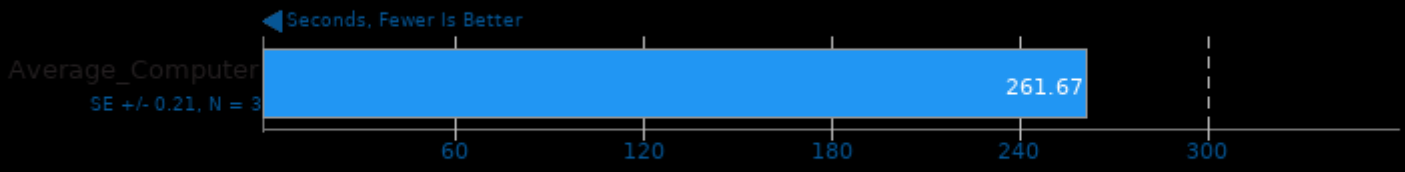
Compiler Notes: --build=x86_64-redhat-linux --disable-libgcj --disable-libunwind-exceptions --enable-__cxa_atexit --enable-bootstrap --enable-checking=release --enable-gnu-indirect-function --enable-gnu-unique-object --enable-initfini-array --enable-languages=c,c++,objc,obj-c++,java,fortran,ada,go,lto --enable-plugin

--enable-shared --enable-threads=posix --mandir=/usr/share/man --with-arch_32=x86-64 --with-linker-hash-style=gnu --with-tune=generic
Processor Notes: Scaling Governor: intel_pstate powersave
Security Notes: SELinux Protection

	Average_Computer
Rodinia - OpenMP LavaMD (sec)	261.67
Standard Deviation	0.1%
Rodinia - OpenMP CFD Solver (sec)	98.85
Standard Deviation	4.7%
CacheBench - R.M.W (MB/s)	42093
Standard Deviation	0.2%
Botan - KASUMI - Encrypt (MiB/s)	78.51
Standard Deviation	0%
Botan - KASUMI - Decrypt (MiB/s)	74.35
Standard Deviation	0.1%
Botan - AES-256 - Encrypt (MiB/s)	3402
Standard Deviation	0.1%
Botan - AES-256 - Decrypt (MiB/s)	3401
Standard Deviation	0.8%
Botan - Twofish - Encrypt (MiB/s)	308.88
Standard Deviation	0.1%
Botan - Twofish - Decrypt (MiB/s)	314.52
Standard Deviation	0.2%
Botan - Blowfish - Encrypt (MiB/s)	260.60
Standard Deviation	0.1%
Botan - Blowfish - Decrypt (MiB/s)	260.33
Standard Deviation	0%
Botan - CAST-256 - Encrypt (MiB/s)	118.88
Standard Deviation	0.1%
Botan - CAST-256 - Decrypt (MiB/s)	118.93
Standard Deviation	0%
John The Ripper - Blowfish (Real C/S)	6302
Standard Deviation	0.4%
John The Ripper - Traditional DES (Real C/S)	24511000
Standard Deviation	0.7%
John The Ripper - MD5 (Real C/S)	216409
Standard Deviation	0.6%
Sample Pi Program (sec)	13.62
Standard Deviation	0.2%
Sudokut - Total Time (sec)	18.01
Standard Deviation	0.1%
Stress-NG - CPU Stress (Bogo Ops/s)	1581
Standard Deviation	0.1%

Rodinia 2.4

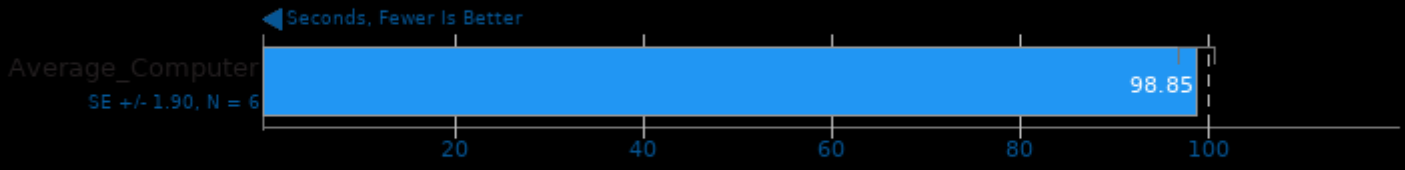
Test: OpenMP LavaMD



1. (CXX) g++ options: -O3 -fopenmp

Rodinia 2.4

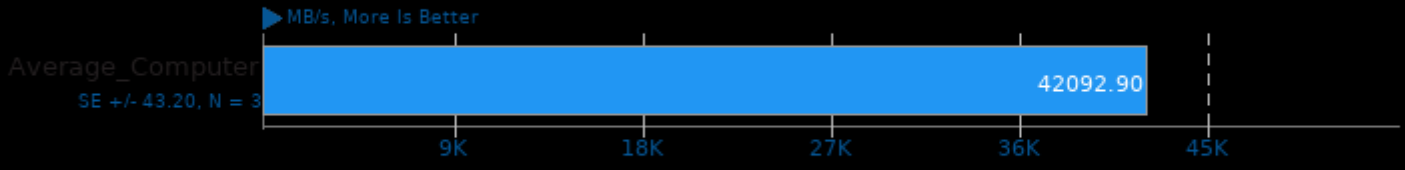
Test: OpenMP CFD Solver



1. (CXX) g++ options: -O3 -fopenmp

CacheBench

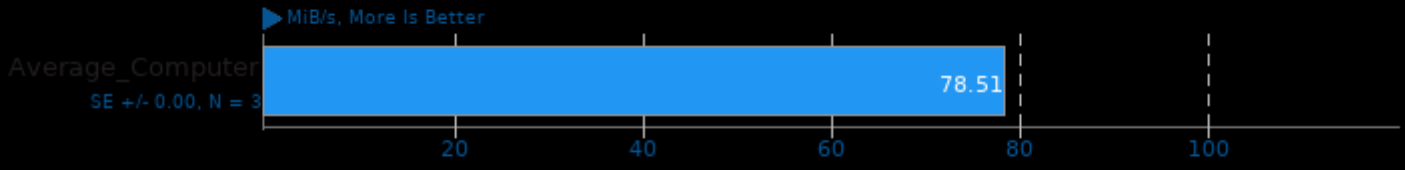
Test: Read / Modify / Write



1. (CC) gcc options: -lrt

Botan 2.4.0

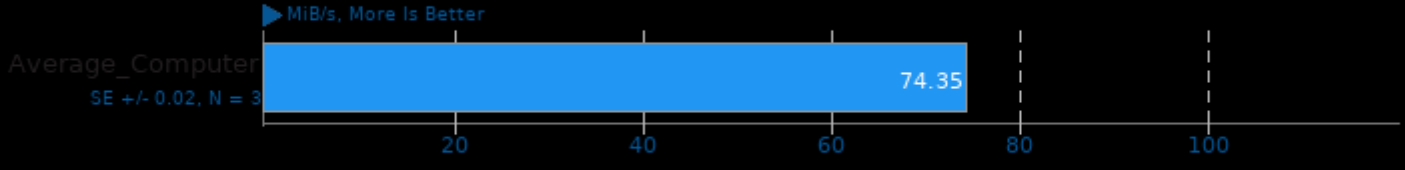
Test: KASUMI - Encrypt



1. (CXX) g++ options: -fstack-protector -m64 -pthread -lbotan-2 -ldl -lrt

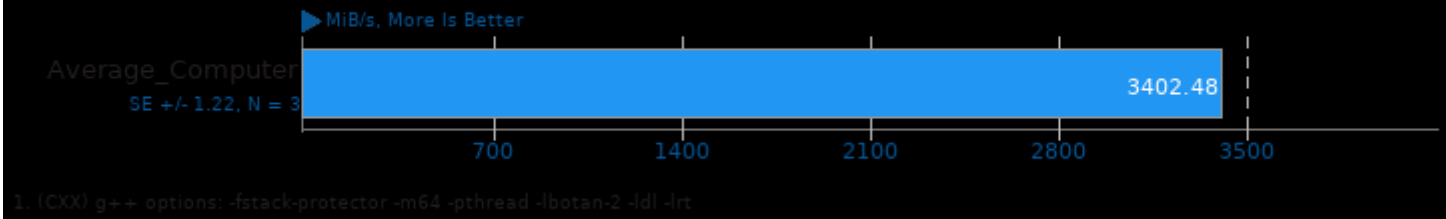
Botan 2.4.0

Test: KASUMI - Decrypt



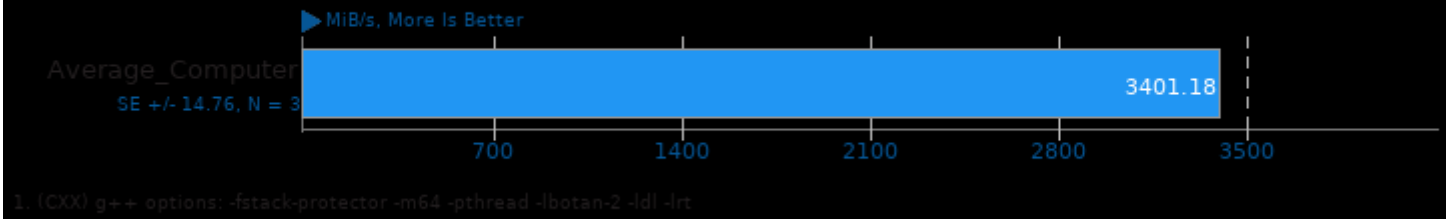
1. (CXX) g++ options: -fstack-protector -m64 -pthread -lbotan-2 -ldl -lrt

Botan 2.4.0
Test: AES-256 - Encrypt



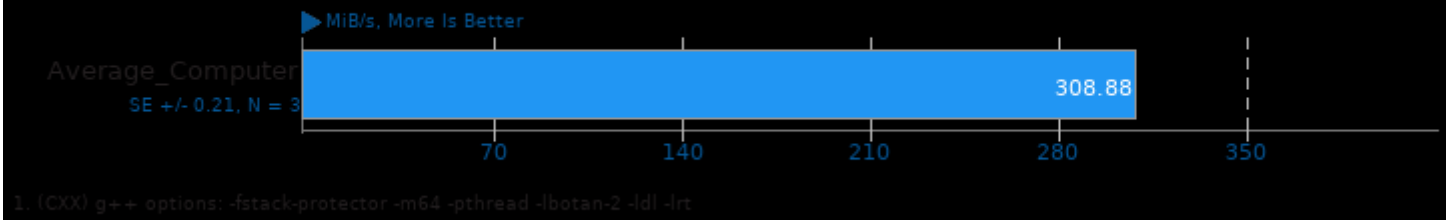
1. (CXX) g++ options: -fstack-protector -m64 -pthread -lbotan-2 -ldl -lrt

Botan 2.4.0
Test: AES-256 - Decrypt



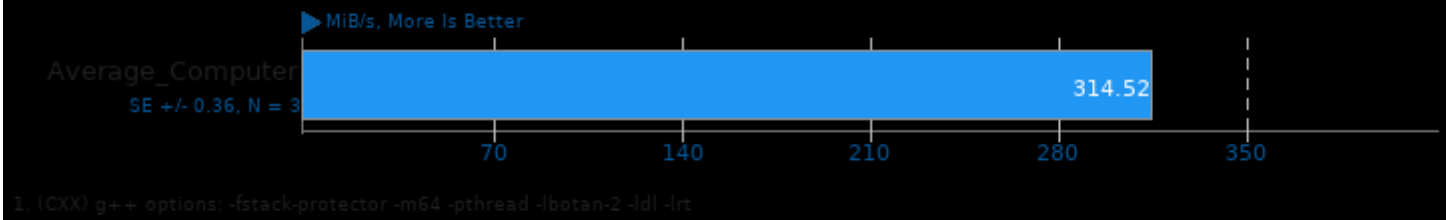
1. (CXX) g++ options: -fstack-protector -m64 -pthread -lbotan-2 -ldl -lrt

Botan 2.4.0
Test: Twofish - Encrypt



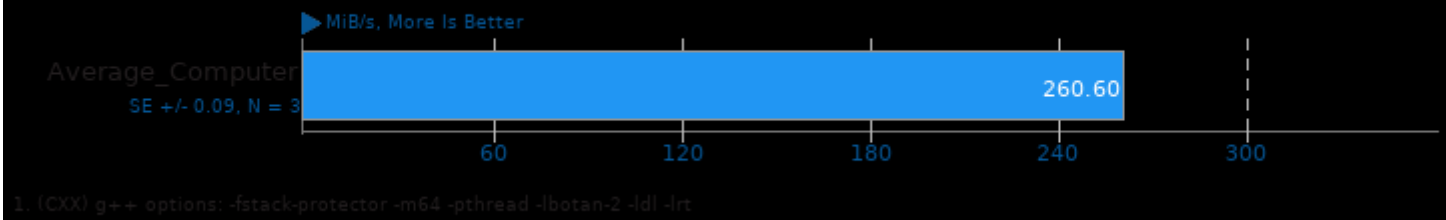
1. (CXX) g++ options: -fstack-protector -m64 -pthread -lbotan-2 -ldl -lrt

Botan 2.4.0
Test: Twofish - Decrypt



1. (CXX) g++ options: -fstack-protector -m64 -pthread -lbotan-2 -ldl -lrt

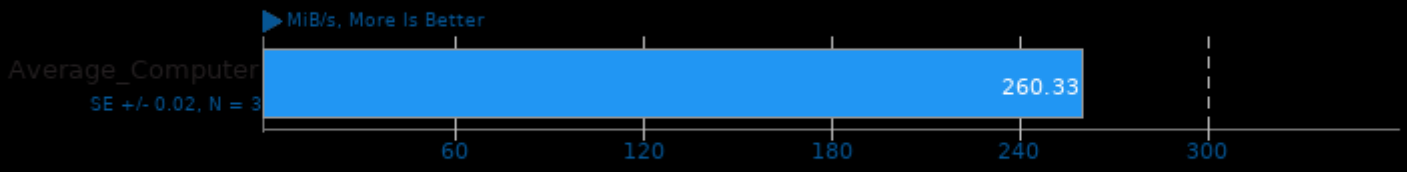
Botan 2.4.0
Test: Blowfish - Encrypt



1. (CXX) g++ options: -fstack-protector -m64 -pthread -lbotan-2 -ldl -lrt

Botan 2.4.0

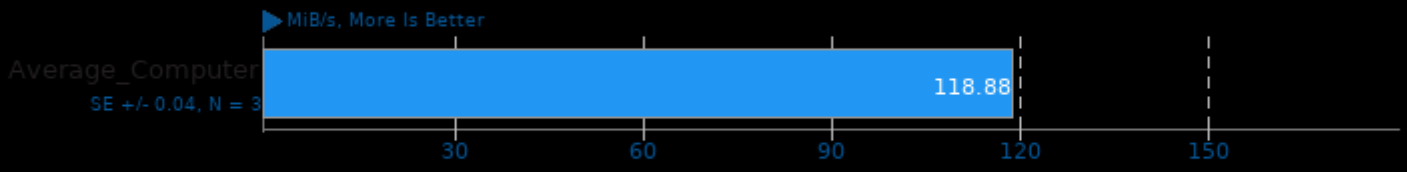
Test: Blowfish - Decrypt



1. (CXX) g++ options: -fstack-protector -m64 -pthread -lbotan-2 -ldl -lrt

Botan 2.4.0

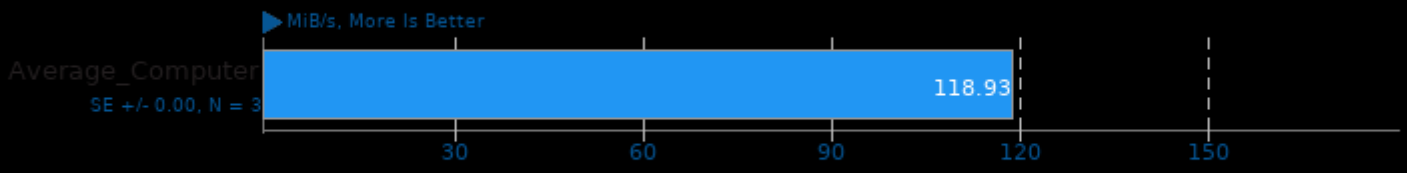
Test: CAST-256 - Encrypt



1. (CXX) g++ options: -fstack-protector -m64 -pthread -lbotan-2 -ldl -lrt

Botan 2.4.0

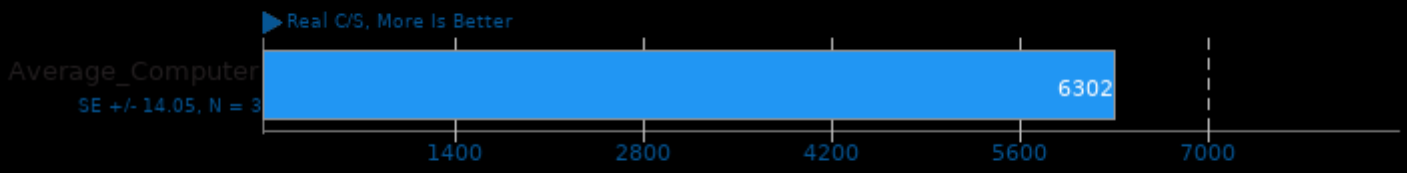
Test: CAST-256 - Decrypt



1. (CXX) g++ options: -fstack-protector -m64 -pthread -lbotan-2 -ldl -lrt

John The Ripper 1.8.0-jumbo-1

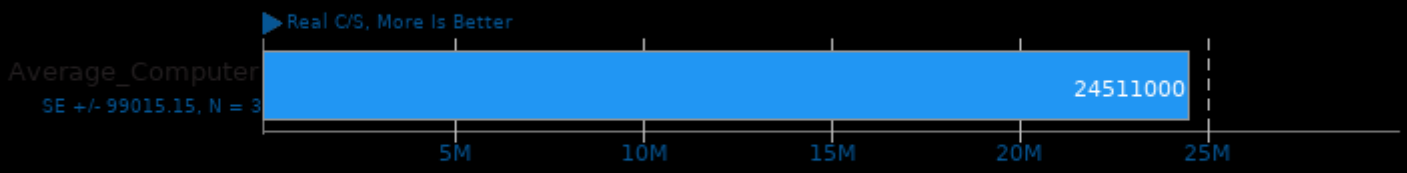
Test: Blowfish



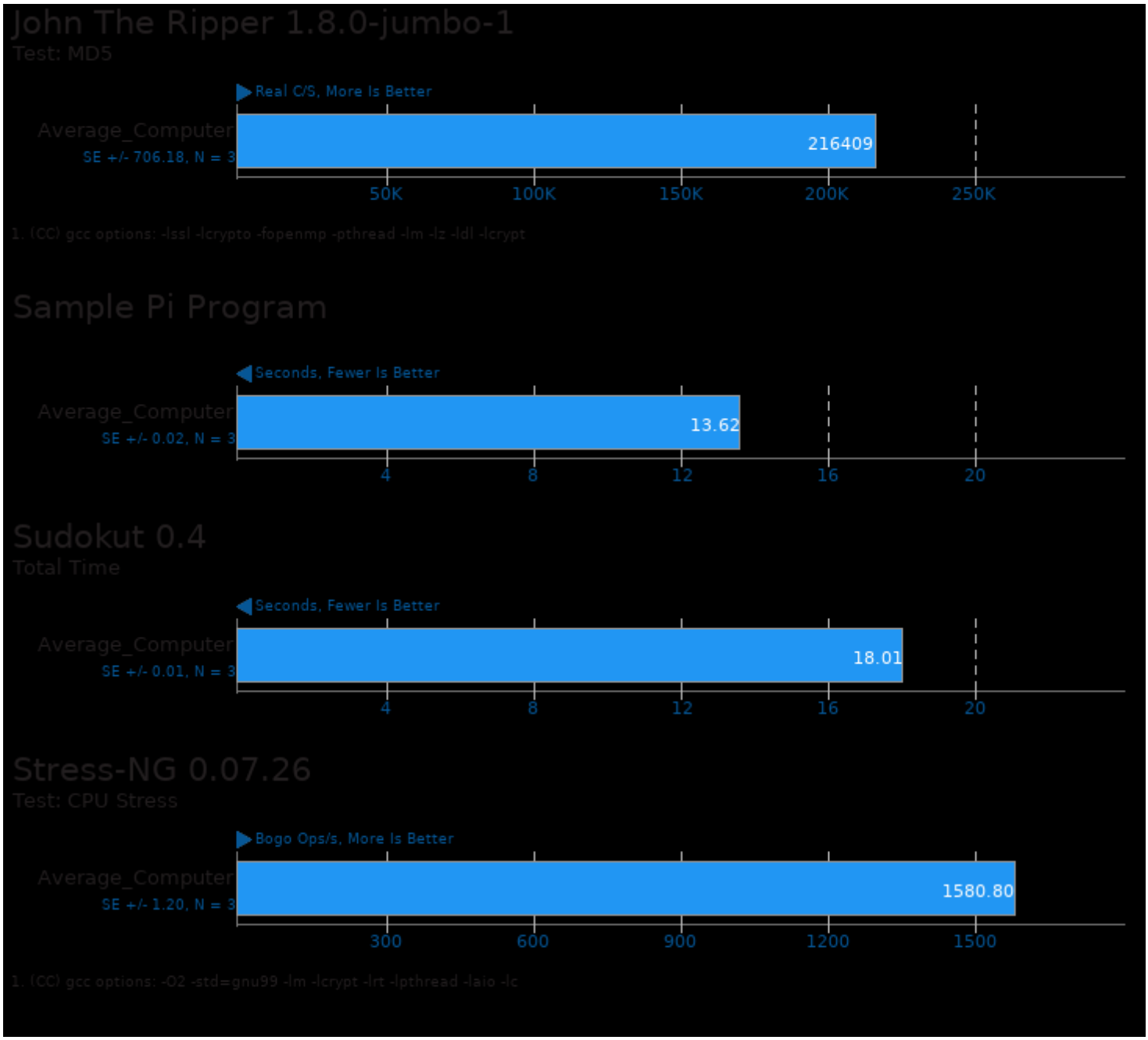
1. (CC) gcc options: -lssl -lcrypto -fopenmp -pthread -lm -lz -ldl -lcrypt

John The Ripper 1.8.0-jumbo-1

Test: Traditional DES



1. (CC) gcc options: -lssl -lcrypto -fopenmp -pthread -lm -lz -ldl -lcrypt



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