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## CloudEdge70

Intel Celeron J1900 testing with a AMI Aptio CRB (5.6.5 BIOS) and Intel Atom Z36xxx/Z37xxx & Display on Ubuntu 20.04 via the Phoronix Test Suite.

### Test Systems:

#### CloudEdge70

Processor: Intel Celeron J1900 @ 2.00GHz (4 Cores), Motherboard: AMI Aptio CRB (5.6.5 BIOS), Chipset: Intel Atom Z36xxx/Z37xxx, Memory: 1 x 8192 MB DDR3-1333MT/s F3-1333C9-8GSL, Disk: 60GB TOSHIBA THNSNJ06, Graphics: Intel Atom Z36xxx/Z37xxx & Display (854MHz), Network: 5 x Intel I211

OS: Ubuntu 20.04, Kernel: 5.4.0-80-generic (x86\_64), Vulkan: 1.2.145, Compiler: GCC 9.3.0, File-System: xfs, Screen Resolution: 1024x768

Kernel Notes: Transparent Huge Pages: madvise  
Compiler Notes: --build=x86\_64-linux-gnu --disable-vtable-verify --disable-werror --enable-checking=release --enable-clocale-gnu --enable-default-pie --enable-gnu-unique-object --enable-languages=c,ada,c++,go,brig,d,fortran,objc,objc+++,gm2 --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-multilib --enable-nls --enable-objc-gc=auto --enable-offload-targets=nvptx-none=/build/gcc-9-HskZEa/gcc-9-9.3.0/debian/tmp-nvptx/usr.hsa --enable-plugin --enable-shared --enable-threads=posix --host=x86\_64-linux-gnu --program-prefix=x86\_64-linux-gnu- --target=x86\_64-linux-gnu --with-abi=m64 --with-arch-32=i686

--with-default-libstdcxx-abi=new --with-gcc-major-version-only --with-multilib-list=m32,m64,mx32 --with-target-system-zlib=auto --with-tune=generic --without-cuda-driver -v  
 Processor Notes: Scaling Governor: intel\_pstate performance - CPU Microcode: 0x838 - ThermalD 1.9.1  
 Security Notes: itlb\_multithit: Not affected + l1tf: Not affected + mds: Mitigation of Clear buffers; SMT disabled + meltdown: Mitigation of PTI + spec\_store\_bypass: Not affected + spectre\_v1: Mitigation of usercopy/swaps barriers and \_\_user pointer sanitization + spectre\_v2: Mitigation of Full generic retpoline IBPB: conditional IBRS\_FW STIBP: disabled RSB filling + srbd: Not affected + tsx\_async\_abort: Not affected

### CloudEdge70

<b>Sockperf - Throughput (Messages/sec)</b>	53466
Standard Deviation	6.5%
<b>Sockperf - Latency Ping Pong (usec)</b>	28.034
Standard Deviation	0.3%
<b>Sockperf - Latency Under Load (usec)</b>	35.747
Standard Deviation	34.2%
<b>perf-bench - Epoll Wait (ops/sec)</b>	44980
Standard Deviation	0.2%
<b>perf-bench - Futex Hash (ops/sec)</b>	152163
Standard Deviation	0.1%
<b>perf-bench - Memcpy 1MB (GB/sec)</b>	2.011847
Standard Deviation	0.3%
<b>perf-bench - Memset 1MB (GB/sec)</b>	7.162041
Standard Deviation	5.4%
<b>perf-bench - Sched Pipe (ops/sec)</b>	38662
Standard Deviation	1.3%
<b>perf-bench - Futex Lock-Pi (ops/sec)</b>	1245
Standard Deviation	0.4%
<b>perf-bench - Syscall Basic (ops/sec)</b>	438735
Standard Deviation	0.7%
<b>OSBench - Create Files (us/Event)</b>	174.932123
Standard Deviation	2.4%
<b>OSBench - Create Threads (us/Event)</b>	83.346367
Standard Deviation	0.1%
<b>OSBench - Launch Programs (us/Event)</b>	438.720385
Standard Deviation	0.3%
<b>OSBench - Create Processes (us/Event)</b>	139.815807
Standard Deviation	0.8%
<b>OSBench - Memory Allocations (Ns/Event)</b>	391.967296
Standard Deviation	0.1%
<b>BYTE Unix Benchmark - Dhrystone 2 (LPS)</b>	6612620
Standard Deviation	1.7%
<b>Botan - KASUMI (MiB/s)</b>	25.656
Standard Deviation	0%
<b>Botan - KASUMI - Decrypt (MiB/s)</b>	25.708
Standard Deviation	0%
<b>Botan - AES-256 (MiB/s)</b>	18.534
Standard Deviation	0%
<b>Botan - AES-256 - Decrypt (MiB/s)</b>	17.012
Standard Deviation	0%
<b>Botan - Twofish (MiB/s)</b>	77.626
Standard Deviation	0.6%
<b>Botan - Twofish - Decrypt (MiB/s)</b>	76.542
Standard Deviation	0.8%

**Botan - Blowfish (MiB/s)** 100.637  
Standard Deviation 0%  
**Botan - Blowfish - Decrypt (MiB/s)** 100.982  
Standard Deviation 0%  
**Botan - CAST-256 (MiB/s)** 41.110  
Standard Deviation 0%  
**Botan - CAST-256 - Decrypt (MiB/s)** 41.111  
Standard Deviation 0%  
**Botan - ChaCha20Poly1305 (MiB/s)** 89.271  
Standard Deviation 0.1%  
**Botan - ChaCha20Poly1305 - Decrypt (MiB/s)** 89.423  
Standard Deviation 0.1%  
**Crafty - Elapsed Time (Nodes/s)** 1640050  
Standard Deviation 0.2%  
**GraphicsMagick - Swirl (Iterations/min)** 24  
**GraphicsMagick - Rotate (Iterations/min)** 91  
**GraphicsMagick - Sharpen (Iterations/min)** 9  
**GraphicsMagick - Enhanced (Iterations/min)** 7  
**GraphicsMagick - Resizing (Iterations/min)** 54  
**GraphicsMagick - Noise-Gaussian (Iterations/min)** 13  
**GraphicsMagick - HWB Color Space (Iterations/min)** 75  
**Timed Linux Kernel Compilation - Time To Compile (sec)** 1547  
Standard Deviation 0.2%  
**Gcrypt Library (sec)** 1030  
Standard Deviation 0.6%  
**WavPack Audio Encoding - WAV To WavPack (sec)** 52.227  
Standard Deviation 0%  
**GnuPG - 2.7.S.F.E (sec)** 303.921  
Standard Deviation 0.1%

## Sockperf 3.4

Test: Throughput



1. (CXX) g++ options: --param -O3 -rdynamic -ldl -lpthread

## Sockperf 3.4

Test: Latency Ping Pong



1. (CXX) g++ options: --param -O3 -rdynamic -ldl -lpthread

## Sockperf 3.4

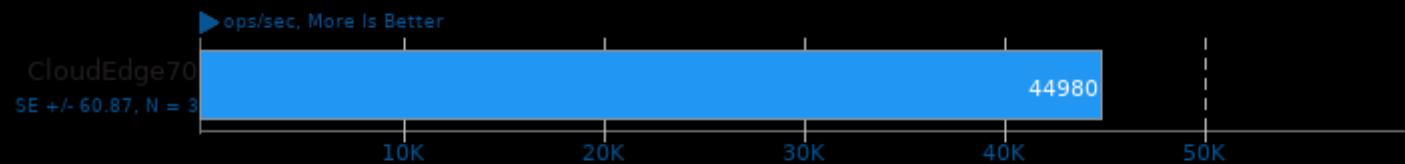
Test: Latency Under Load



1. (CXX) g++ options: --param -O3 -rdynamic -ldl -lpthread

## perf-bench

Benchmark: Epoll Wait



1. (CC) gcc options: -O6 -ggdb3 -funwind-tables -std=gnu99 -Xlinker -lpthread -lrt -lm -ldl -lelf -lcrypto -lz -llzma -l numa

## perf-bench

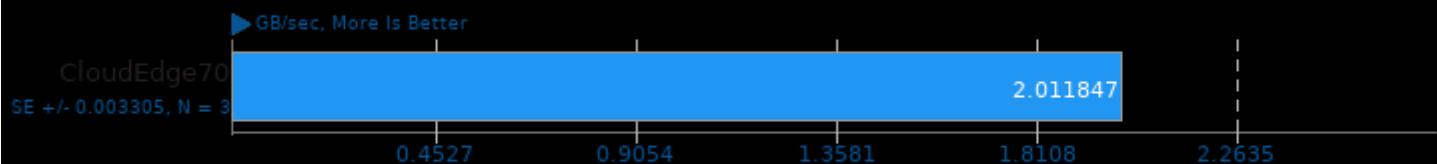
Benchmark: Futex Hash



1. (CC) gcc options: -O6 -ggdb3 -funwind-tables -std=gnu99 -Xlinker -lpthread -lrt -lm -ldl -lelf -lcrypto -lz -llzma -l numa

**perf-bench**

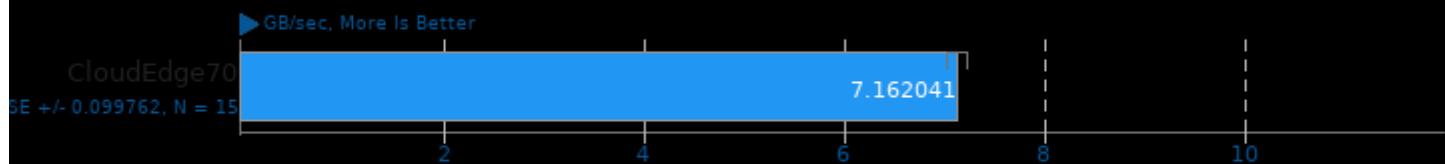
Benchmark: Memcpy 1MB



1. (CC) gcc options: -O6 -ggdb3 -funwind-tables -std=gnu99 -Xlinker -lpthread -lrt -lm -ldl -lelf -lcrypto -lz -llzma -l numa

**perf-bench**

Benchmark: Memset 1MB



1. (CC) gcc options: -O6 -ggdb3 -funwind-tables -std=gnu99 -Xlinker -lpthread -lrt -lm -ldl -lelf -lcrypto -lz -llzma -l numa

**perf-bench**

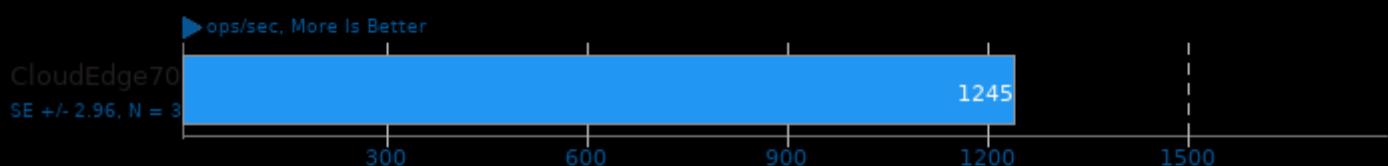
Benchmark: Sched Pipe



1. (CC) gcc options: -O6 -ggdb3 -funwind-tables -std=gnu99 -Xlinker -lpthread -lrt -lm -ldl -lelf -lcrypto -lz -llzma -l numa

**perf-bench**

Benchmark: Futex Lock-Pi



1. (CC) gcc options: -O6 -ggdb3 -funwind-tables -std=gnu99 -Xlinker -lpthread -lrt -lm -ldl -lelf -lcrypto -lz -llzma -l numa

**perf-bench**

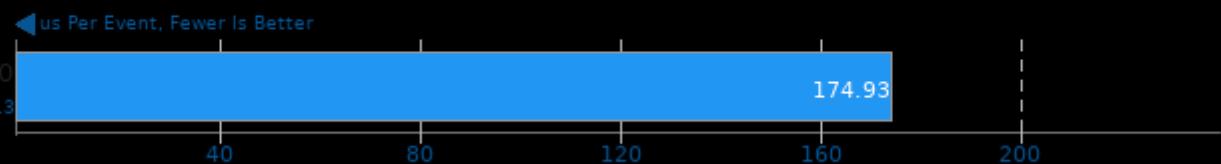
Benchmark: Syscall Basic



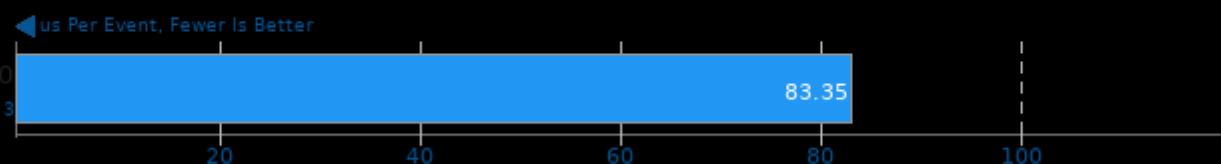
1. (CC) gcc options: -O6 -ggdb3 -funwind-tables -std=gnu99 -Xlinker -lpthread -lrt -lm -ldl -lelf -lcrypto -lz -llzma -l numa

**OSBench**

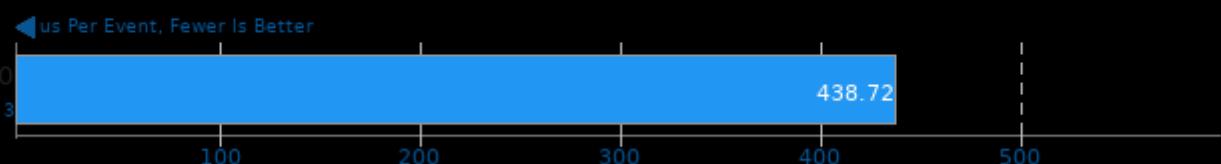
Test: Create Files

**OSBench**

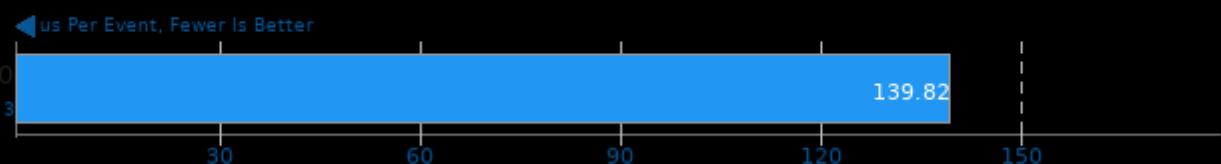
Test: Create Threads

**OSBench**

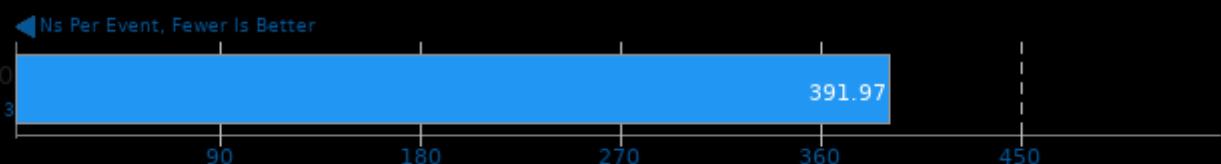
Test: Launch Programs

**OSBench**

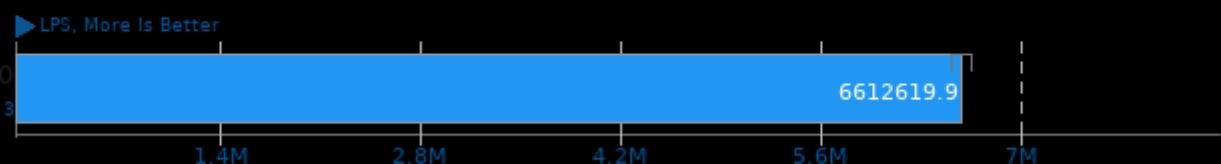
Test: Create Processes

**OSBench**

Test: Memory Allocations

**BYTE Unix Benchmark 3.6**

Computational Test: Dhrystone 2



## Botan 2.17.3

Test: KASUMI



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

## Botan 2.17.3

Test: KASUMI - Decrypt



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

## Botan 2.17.3

Test: AES-256



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

## Botan 2.17.3

Test: AES-256 - Decrypt



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

## Botan 2.17.3

Test: Twofish



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

## Botan 2.17.3

Test: Twofish - Decrypt



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

## Botan 2.17.3

Test: Blowfish



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

## Botan 2.17.3

Test: Blowfish - Decrypt



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

## Botan 2.17.3

Test: CAST-256



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

## Botan 2.17.3

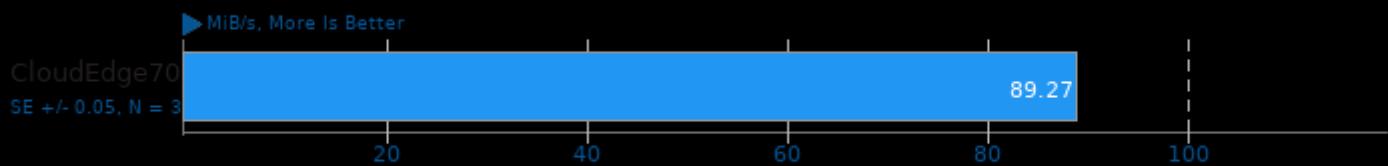
Test: CAST-256 - Decrypt



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

## Botan 2.17.3

Test: ChaCha20Poly1305



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

## Botan 2.17.3

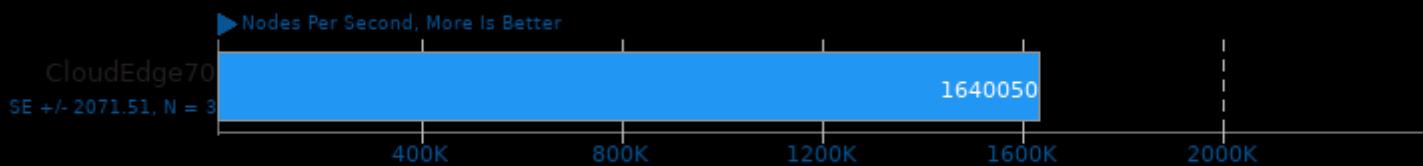
Test: ChaCha20Poly1305 - Decrypt



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

## Crafty 25.2

Elapsed Time



1. (CC) gcc options: -pthread -stdc++ -fprofile-use -lm

## GraphicsMagick 1.3.33

Operation: Swirl



1. (CC) gcc options: -fopenmp -O2 -pthread -ljpeg -ltiff -ljpeg -lXext -lSM -lICE -lX11 -lZma -lbz2 -lz -lm -lpthread

## GraphicsMagick 1.3.33

Operation: Rotate



1. (CC) gcc options: -fopenmp -O2 -pthread -ljpeg -ltiff -ljpeg -lXext -lSM -lICE -lX11 -lZma -lbz2 -lz -lm -lpthread

## GraphicsMagick 1.3.33

Operation: Sharpen



1. (CC) gcc options: -fopenmp -O2 -pthread -ljpeg -ltiff -lbig -lxml -lXext -lSM -lICE -lX11 -lIzma -lbz2 -lz -lm -lpthread

## GraphicsMagick 1.3.33

Operation: Enhanced



1. (CC) gcc options: -fopenmp -O2 -pthread -ljpeg -ltiff -lbig -lxml -lXext -lSM -lICE -lX11 -lIzma -lbz2 -lz -lm -lpthread

## GraphicsMagick 1.3.33

Operation: Resizing



1. (CC) gcc options: -fopenmp -O2 -pthread -ljpeg -ltiff -lbig -lxml -lXext -lSM -lICE -lX11 -lIzma -lbz2 -lz -lm -lpthread

## GraphicsMagick 1.3.33

Operation: Noise-Gaussian



1. (CC) gcc options: -fopenmp -O2 -pthread -ljpeg -ltiff -lbig -lxml -lXext -lSM -lICE -lX11 -lIzma -lbz2 -lz -lm -lpthread

## GraphicsMagick 1.3.33

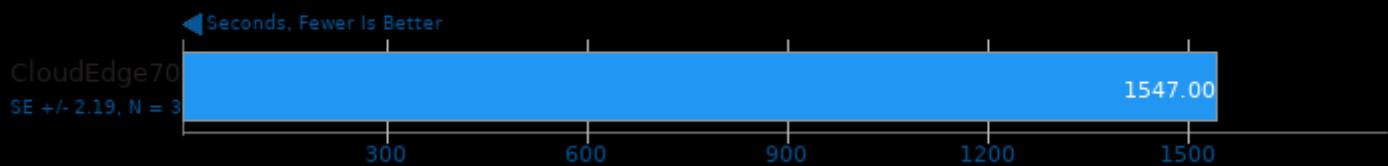
Operation: HWB Color Space



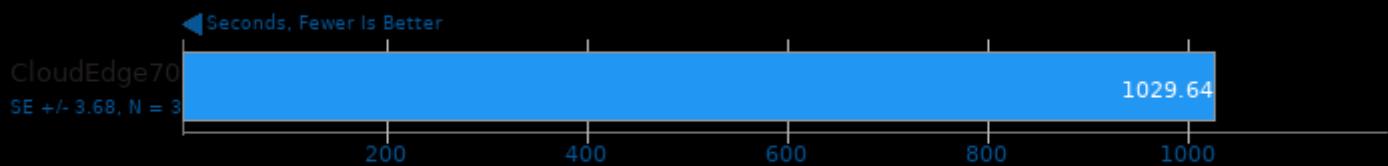
1. (CC) gcc options: -fopenmp -O2 -pthread -ljpeg -ltiff -lbig -lxml -lXext -lSM -lICE -lX11 -lIzma -lbz2 -lz -lm -lpthread

## Timed Linux Kernel Compilation 5.10.20

Time To Compile



## Gcrypt Library 1.9



1. (CC) gcc options: -O2 -fvisibility=hidden

## WavPack Audio Encoding 5.3

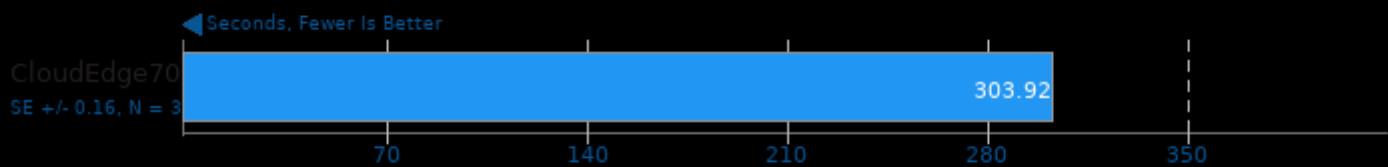
WAV To WavPack



1. (CXX) g++ options: -rdynamic

## GnuPG 2.2.27

2.7GB Sample File Encryption



1. (CC) gcc options: -O2

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