


**www.phoronix-test-suite.com**

# Calxeda ARM Server Sensor Monitoring

Testing out the node power and SoC temperatures of a Calxeda node as exposed over IPMI and automatically monitored via the Phoronix Test Suite. Tests on both 1.1GHz and 1.4GHz nodes. Benchmarking by Michael Larabel of Phoronix.com.

## Test Systems:

### 1.1GHz Calxeda Node

### 1.4GHz Calxeda Node

Processor: ARMv7 rev 0 (4 Cores), Motherboard: Highbank, Memory: 4096MB, Disk: 256GB SAMSUNG MZ7PC256

OS: Ubuntu 12.10, Kernel: 3.5.0-1000-highbank (armv7l), Compiler: GCC 4.7, File-System: ext4

Compiler Notes: --build=arm-linux-gnueabihf --disable-libitm --disable-sjlj-exceptions --disable-werror --enable-checking=release --enable-clocale=gnu --enable-gnu-unique-object --enable-languages=c,c++,go,fortran,objc,obj-c++ --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multilib --enable-nls --enable-objc-gc --enable-plugin --enable-shared --enable-threads=posix --host=arm-linux-gnueabihf --target=arm-linux-gnueabihf --with-arch=armv7-a --with-float=hard --with-fpu=vfpv3-d16 --with-mode=thumb -v

# Calxeda ARM Server Sensor Monitoring

## 1.1GHz Calxeda Linaro 13.01

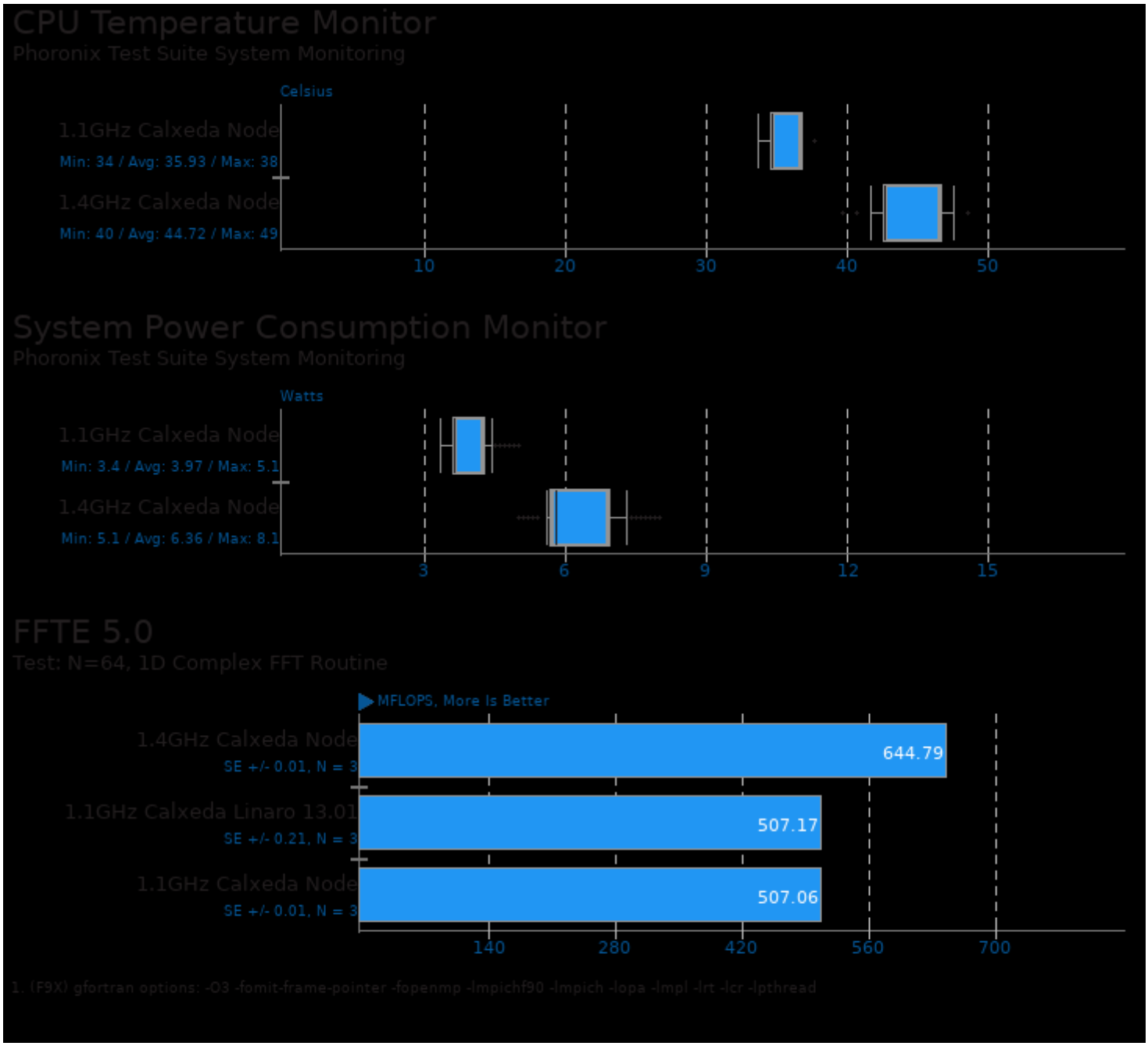
Processor: ARMv7 rev 0 (4 Cores), Motherboard: Highbank, Memory: 4096MB, Disk: 256GB SAMSUNG MZ7PC256

OS: Ubuntu 13.04, Kernel: 3.5.0-1000-highbank (armv7l), Compiler: GCC 4.7, File-System: ext4

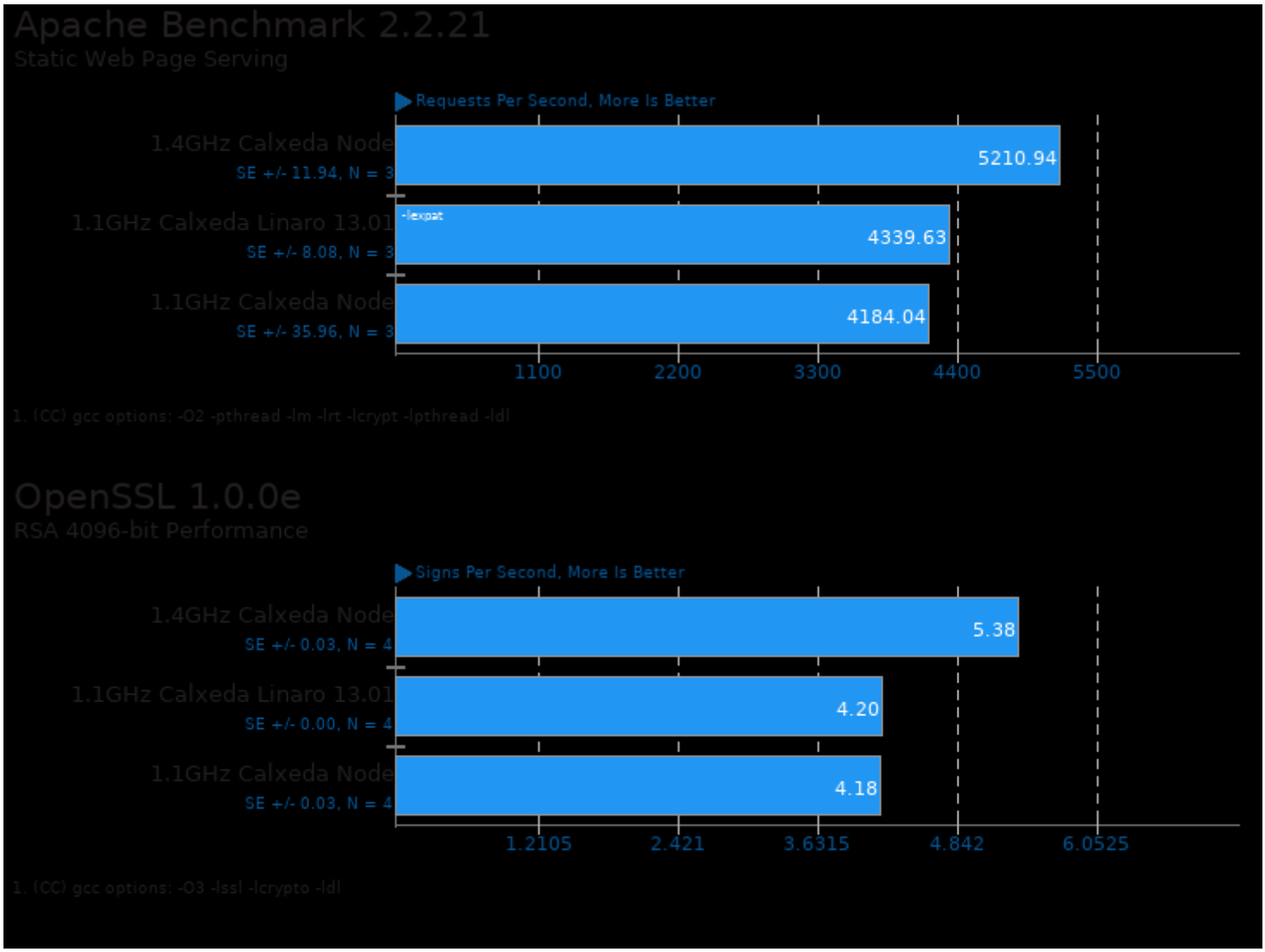
Compiler Notes: --build=arm-linux-gnueabihf --disable-cloog-version-check --disable-libitm --disable-ppl-version-check --disable-sjlj-exceptions --disable-werror --enable-checking=release --enable-clocale=gnu --enable-cloog-backend=ppl --enable-gnu-unique-object --enable-languages=c,c++,go,fortran,objc,obj-c++ --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-multilib --enable-nls --enable-objc-gc --enable-plugin --enable-shared --enable-threads=posix --host=arm-linux-gnueabihf --target=arm-linux-gnueabihf --with-arch=armv7-a --with-cloog --with-float=hard --with-fpu=vfpv3-d16 --with-mode=thumb -v

| | 1.1GHz Calxeda Node | 1.4GHz Calxeda Node | 1.1GHz Calxeda Linaro 13.01 |
|---|---|---|---|
| **FFTE - N.6.1.C.F.R (MFLOPS)** | **507.06** | **644.79** | 507.17 |
| **Normalized** | 78.64% | 100% | 78.66% |
| **Standard Deviation** | 0% | 0% | 0.1% |
| **Apache Benchmark - S.W.P.S (Reqs/sec)** | **4184** | **5211** | 4340 |
| **Normalized** | 80.29% | 100% | 83.28% |
| **Standard Deviation** | 1.5% | 0.4% | 0.3% |
| **OpenSSL - R.4.b.P (Signs/sec)** | **4.18** | **5.38** | 4.20 |
| **Normalized** | 77.7% | 100% | 78.07% |
| **Standard Deviation** | 1.2% | 0.9% | 0% |
| **C-Ray - Total Time (sec)** | **392.28** | **305.15** | 386.45 |
| **Normalized** | 77.79% | 100% | 78.96% |
| **Standard Deviation** | 0.1% | 0.2% | 0.1% |
| **Smallpt - G.I.R.1.S (sec)** | **1337** | **1036** | 1312 |
| **Normalized** | 77.49% | 100% | 78.96% |
| **Standard Deviation** | 0.1% | 0.1% | 0.1% |
| **POV-Ray - Total Time (sec)** | 5450 | **4315** | **5595** |
| **Normalized** | 79.17% | 100% | 77.12% |

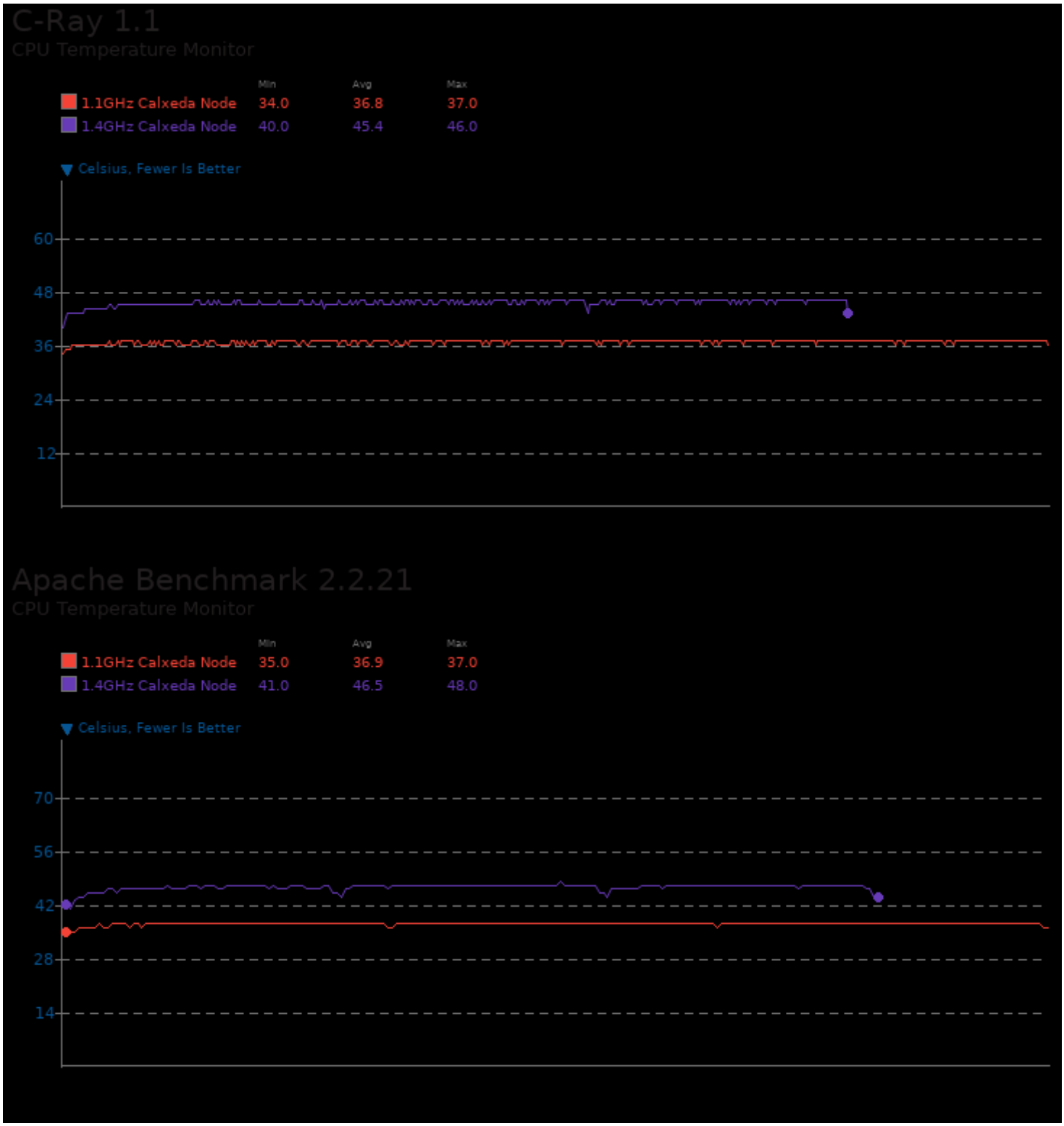
# Calxeda ARM Server Sensor Monitoring



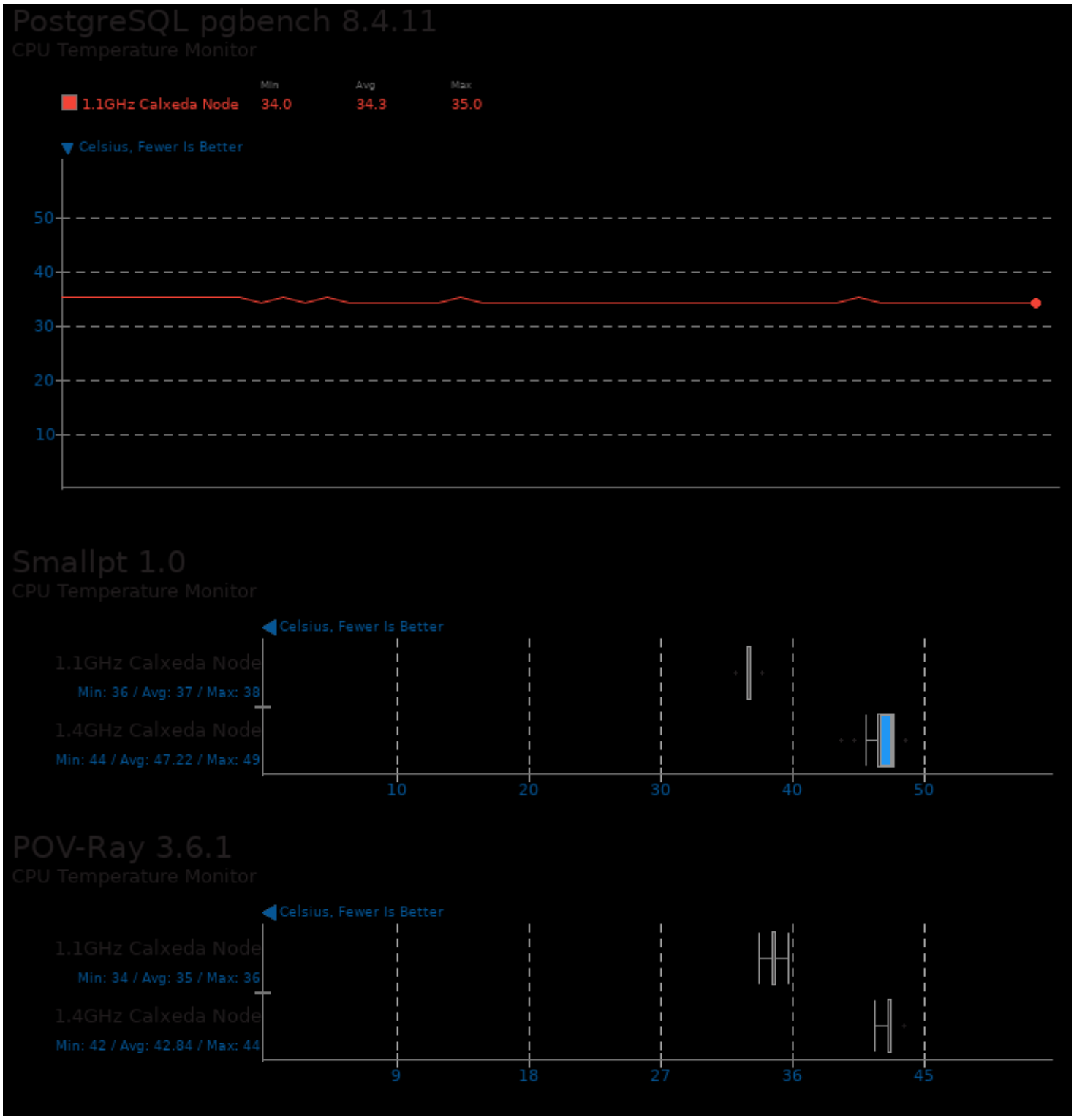
# Calxeda ARM Server Sensor Monitoring



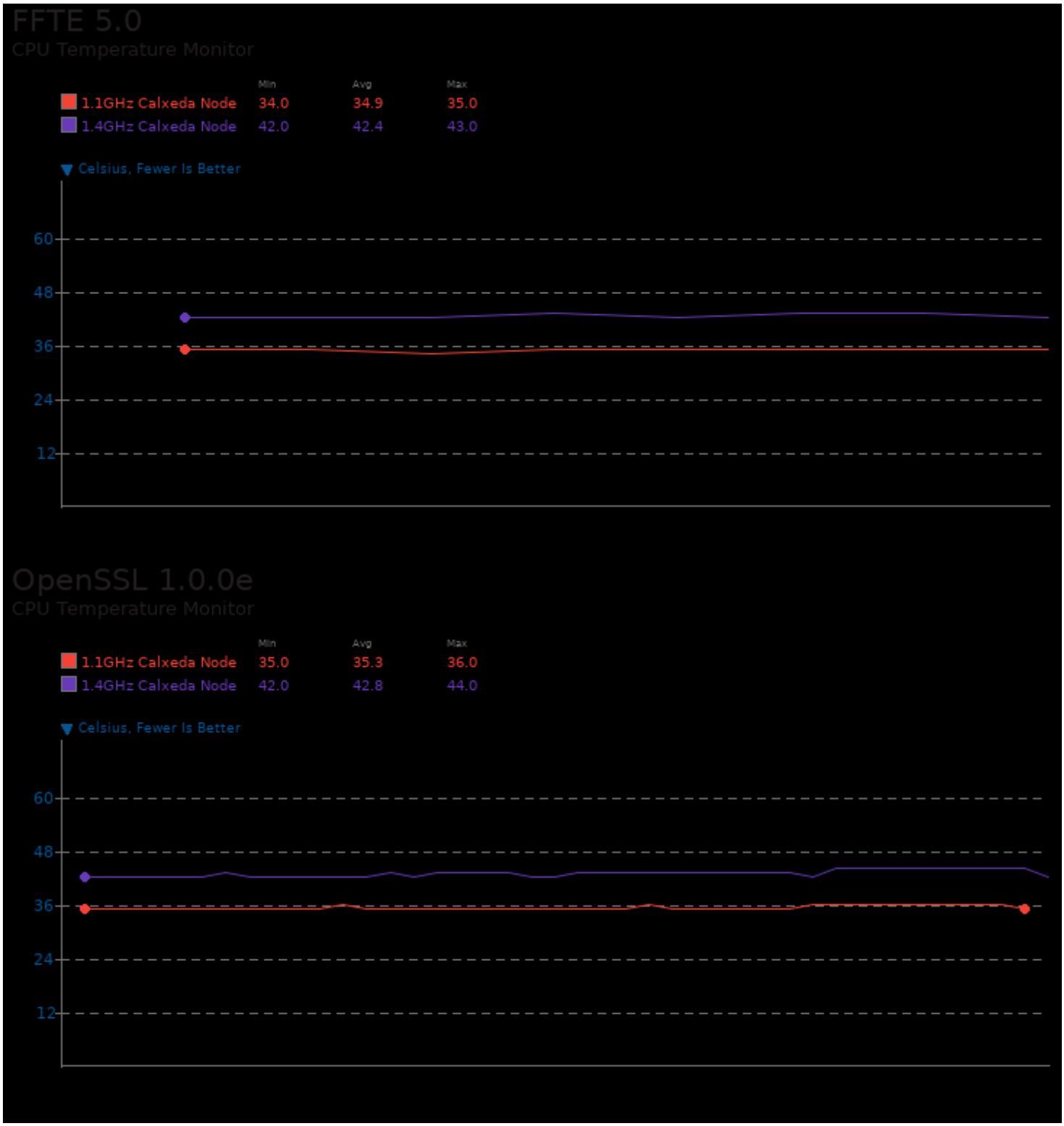
# Calxeda ARM Server Sensor Monitoring



# Calxeda ARM Server Sensor Monitoring



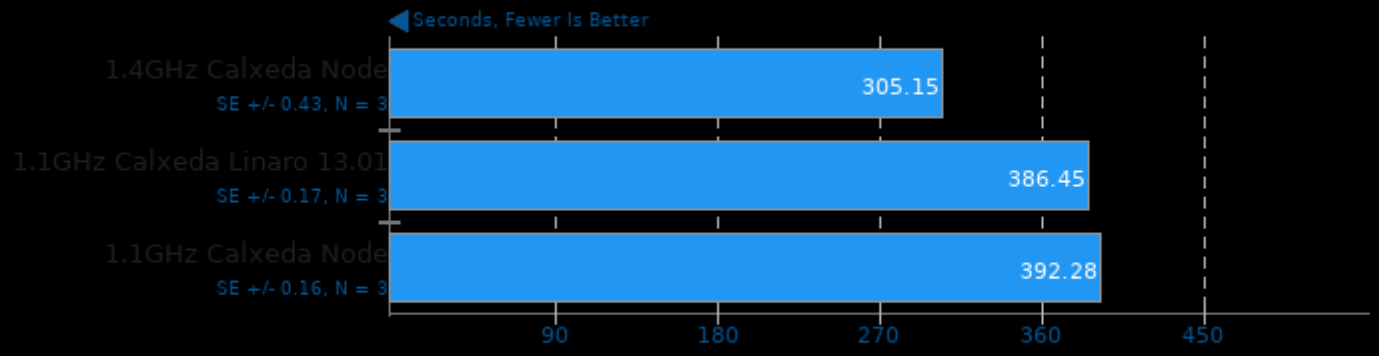
# Calxeda ARM Server Sensor Monitoring



# Calxeda ARM Server Sensor Monitoring

## C-Ray 1.1

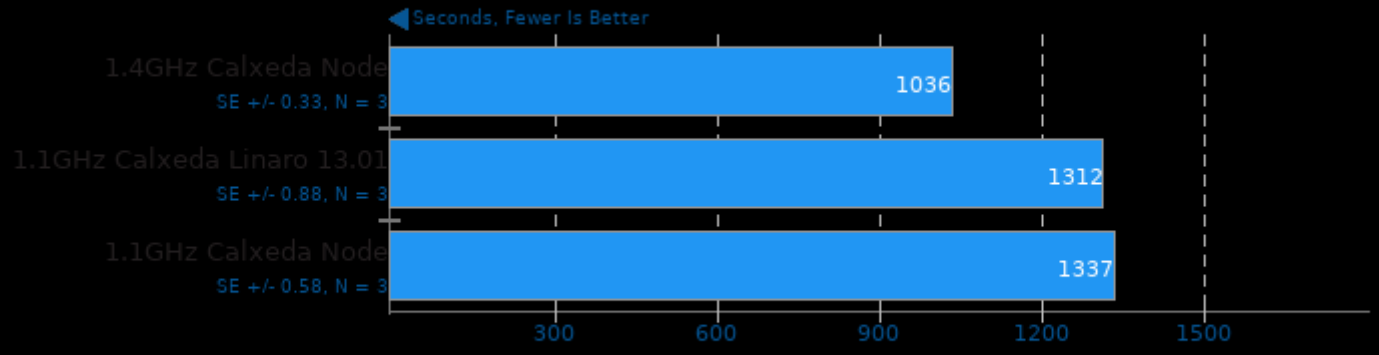
Total Time




1. (CC) gcc options: -lm -lpthread -O3

## Smallpt 1.0

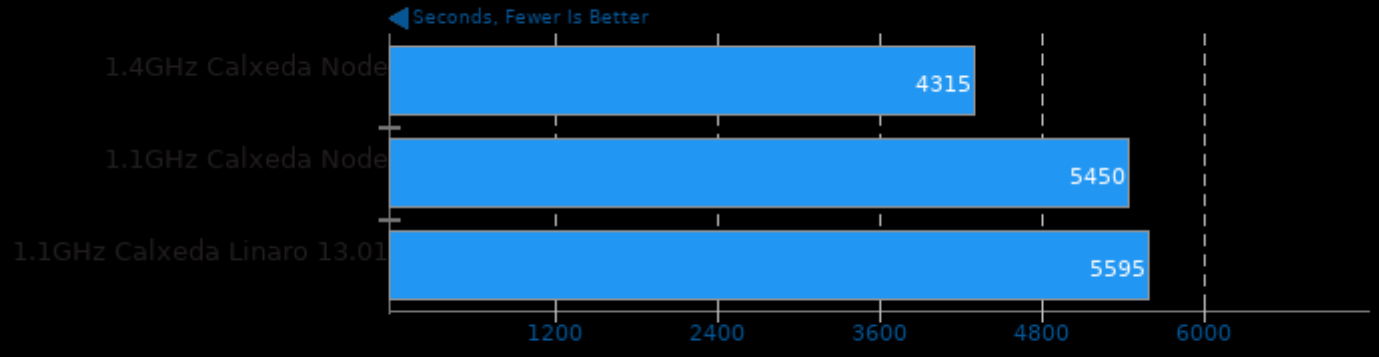
Global Illumination Renderer; 100 Samples




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

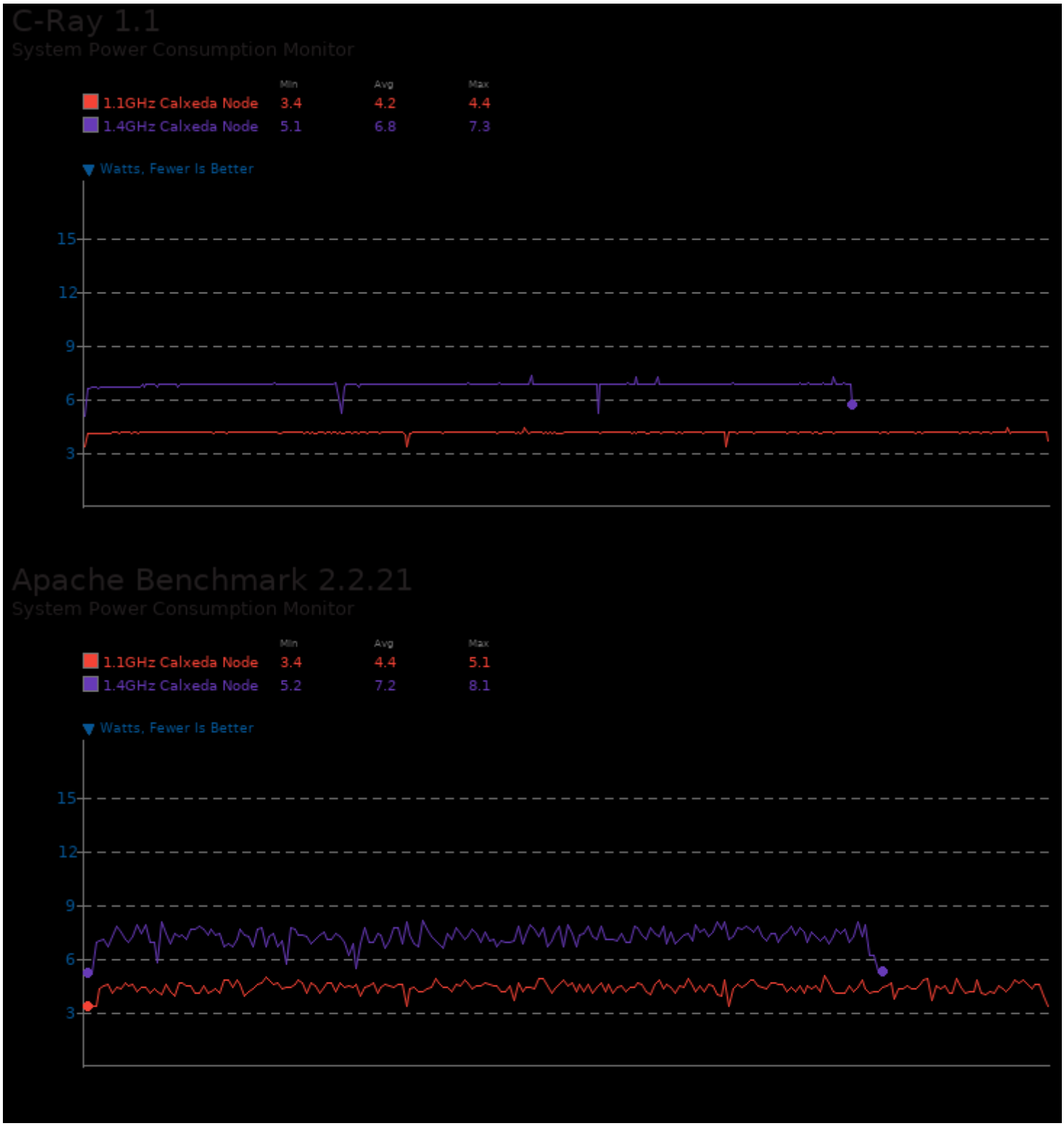
## POV-Ray 3.6.1

Total Time

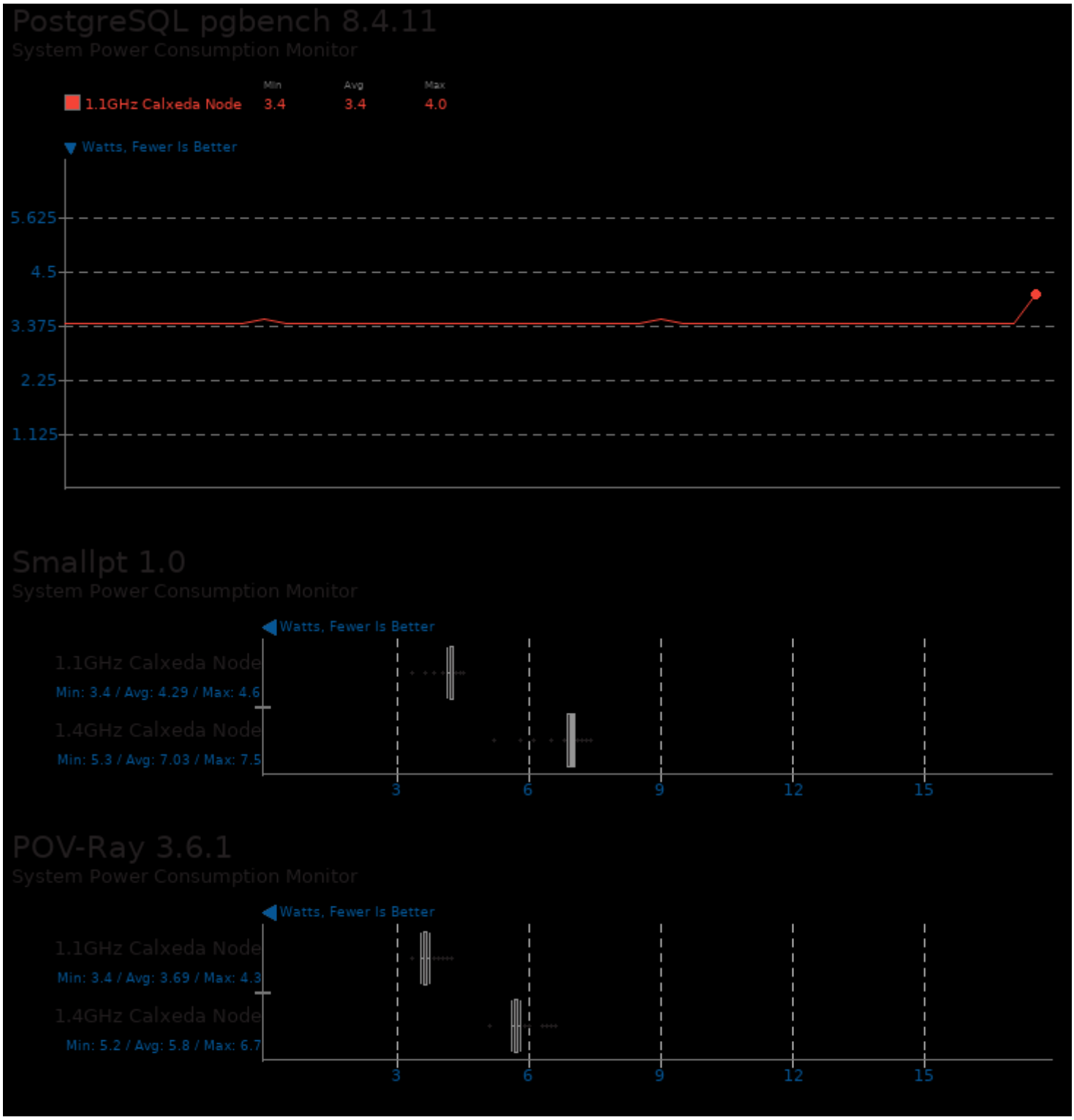



1. (CXX) g++ options: -pipe -O3 -lz -lm

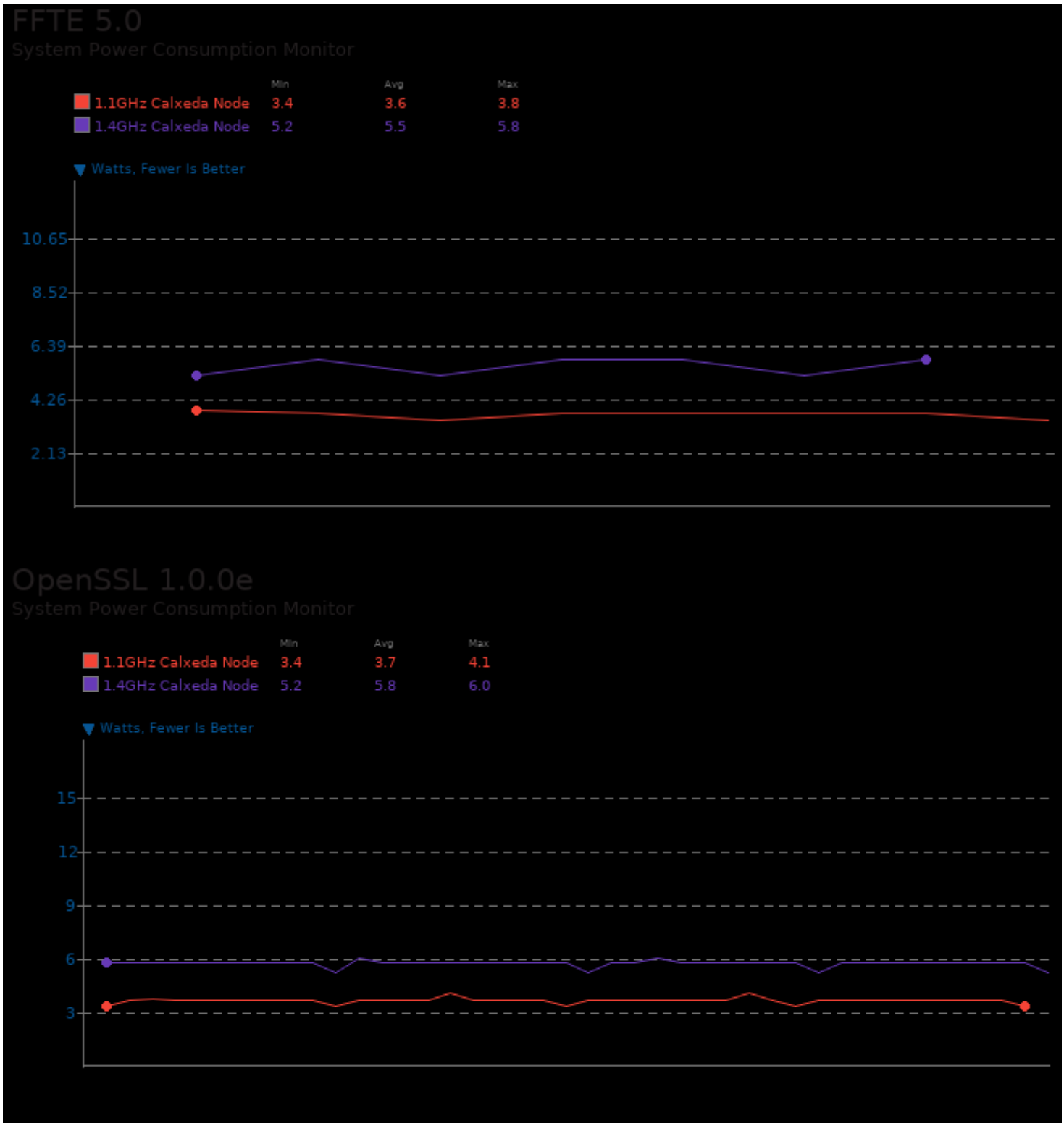
# Calxeda ARM Server Sensor Monitoring



# Calxeda ARM Server Sensor Monitoring

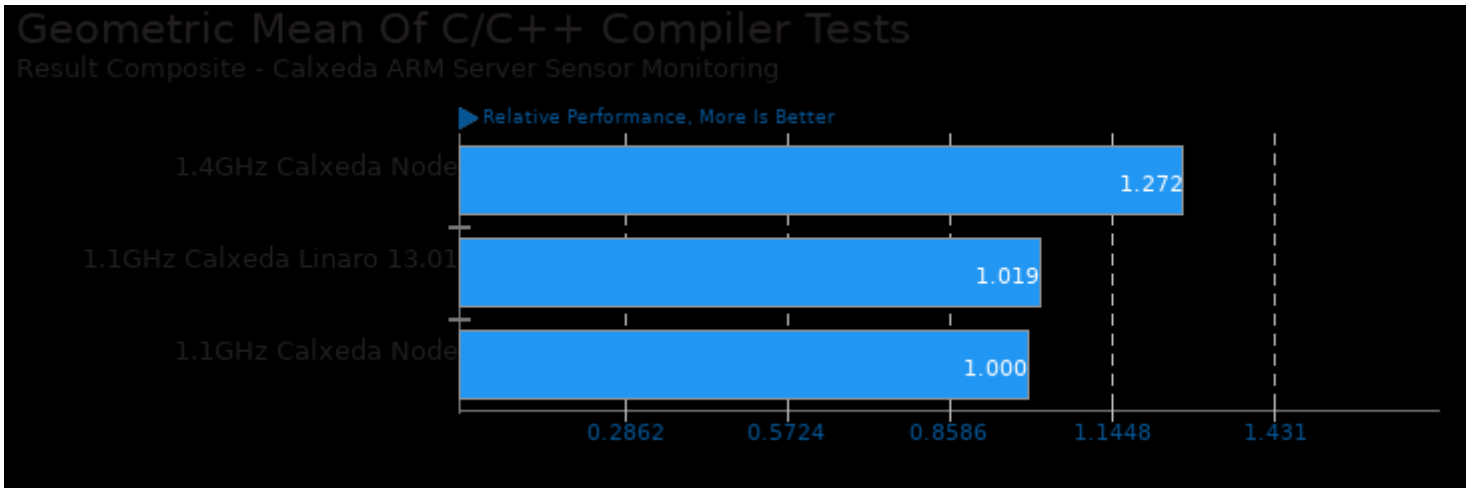


# Calxeda ARM Server Sensor Monitoring

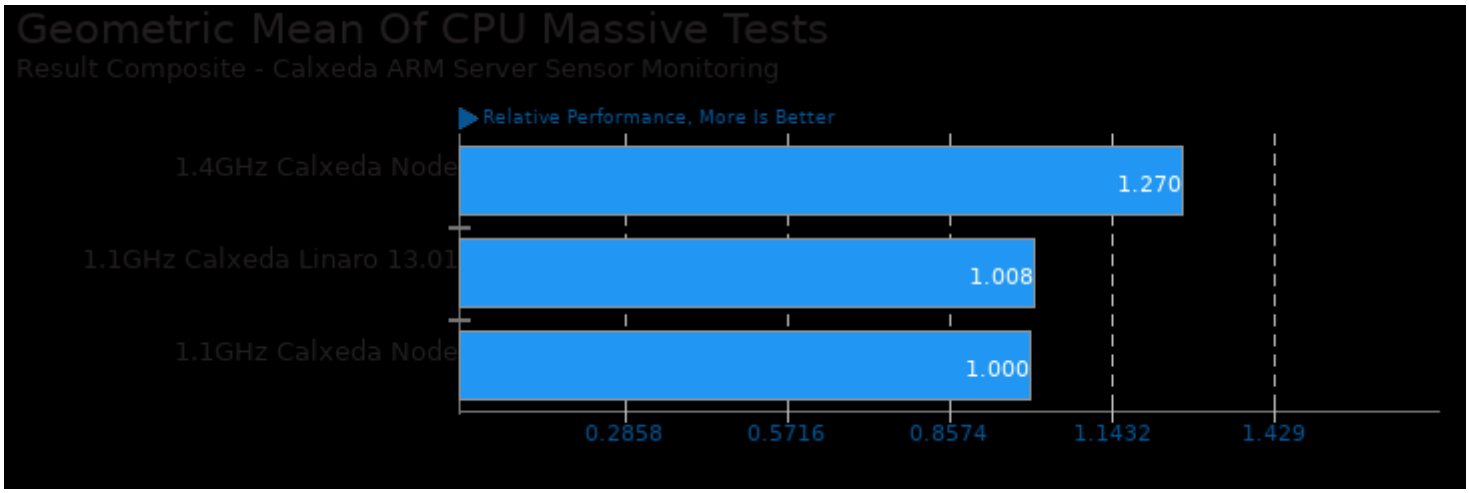


# Calxeda ARM Server Sensor Monitoring

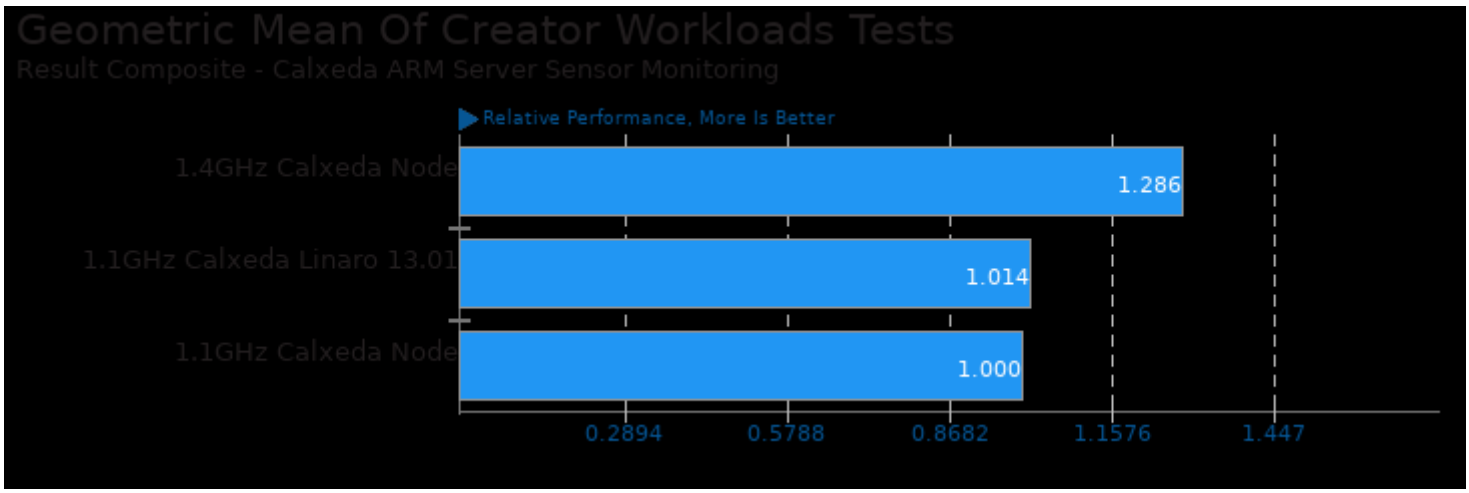
These geometric means are based upon test groupings / test suites for this result file.



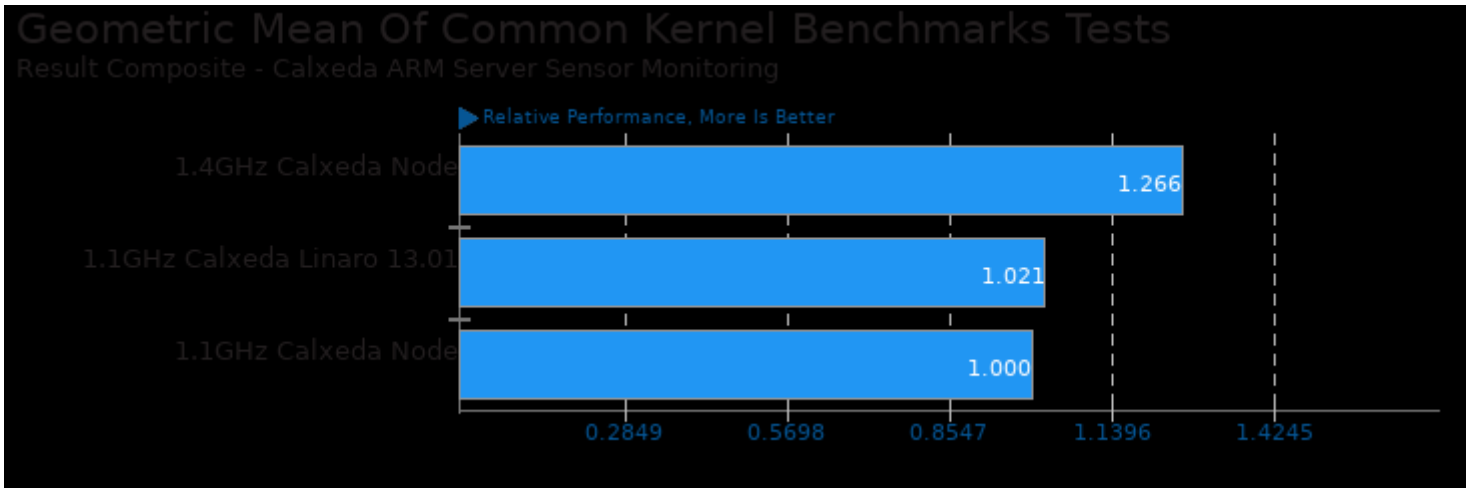

Geometric mean based upon tests: pts/c-ray, pts/apache and pts/openssl



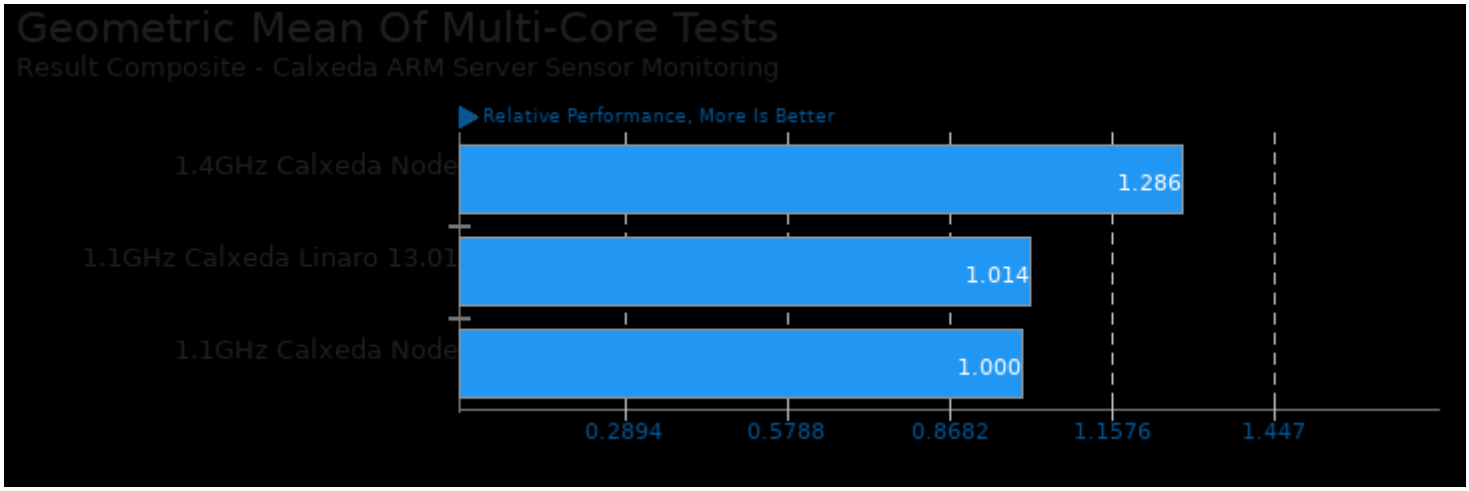

Geometric mean based upon tests: pts/apache, pts/c-ray, pts/openssl and pts/povray



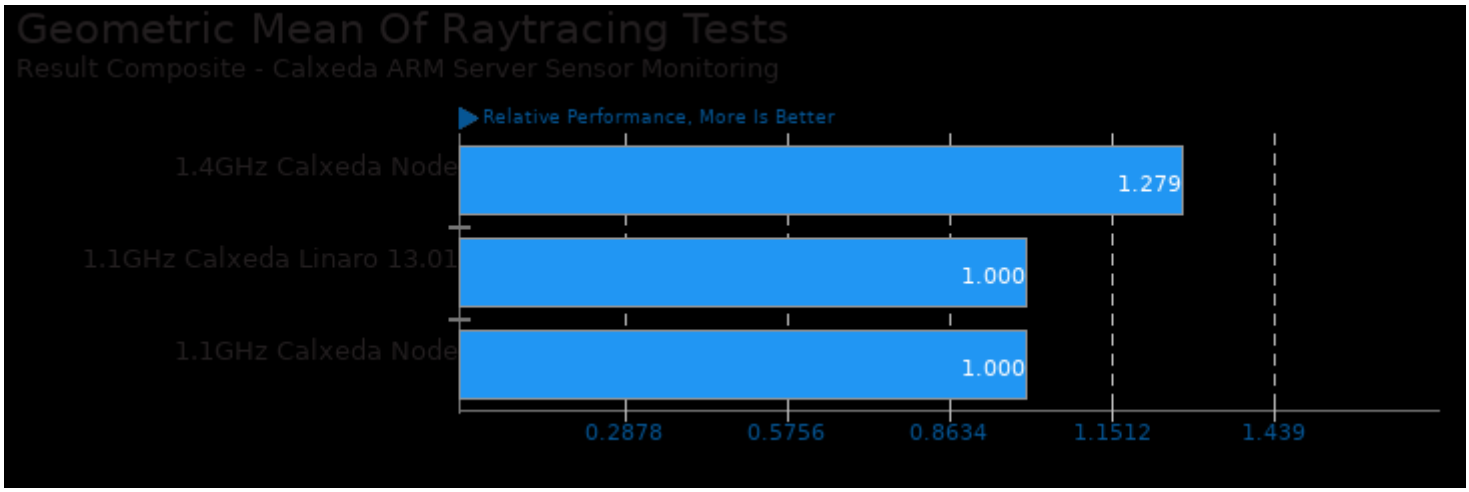

Geometric mean based upon tests: pts/c-ray, pts/povray and pts/smallpt




Geometric mean based upon tests: pts/apache and pts/openssl

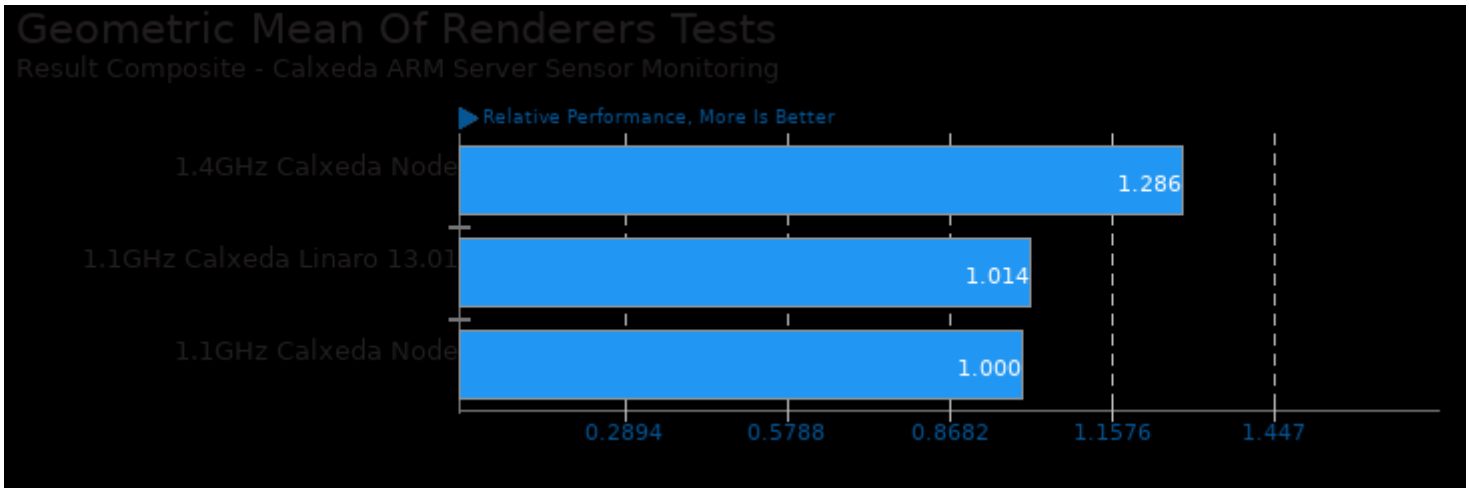



Geometric mean based upon tests: pts/c-ray, pts/povray and pts/smallpt

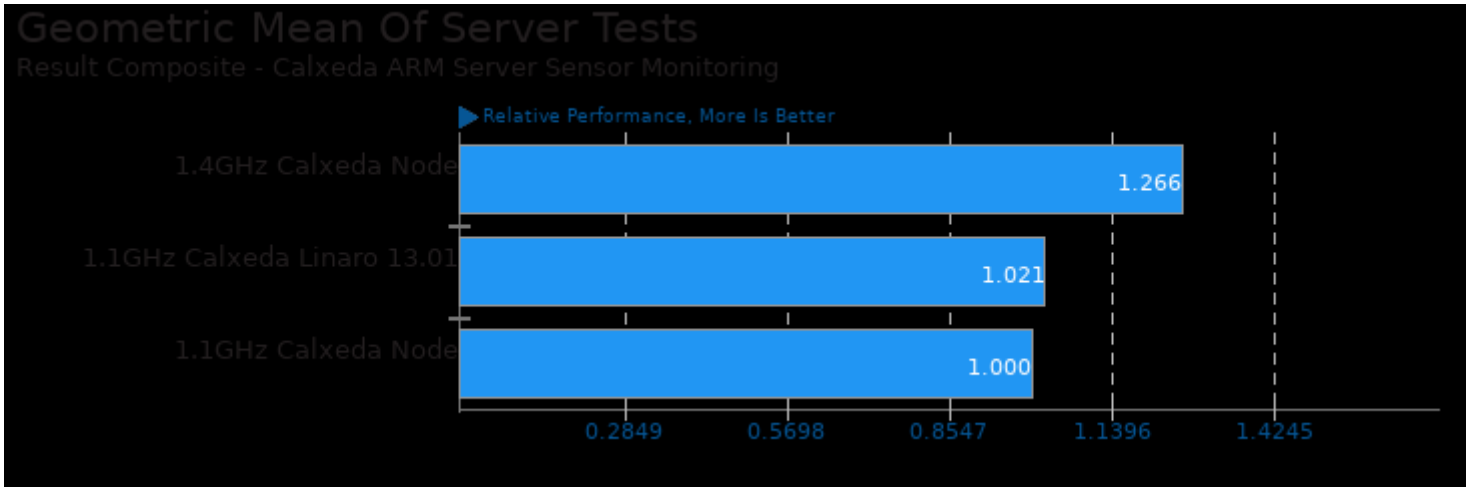



Geometric mean based upon tests: pts/c-ray and pts/povray

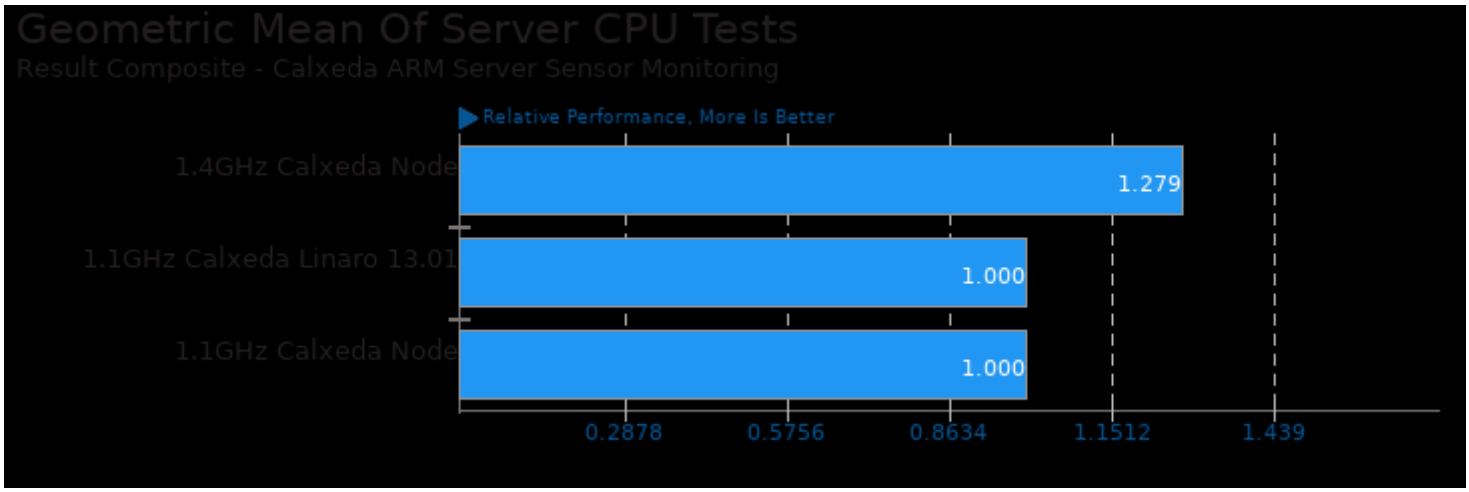
# Calxeda ARM Server Sensor Monitoring




Geometric mean based upon tests: pts/c-ray, pts/povray and pts/smallpt




Geometric mean based upon tests: pts/apache and pts/openssl




Geometric mean based upon tests: pts/c-ray, pts/povray and pts/openssl

*This file was automatically generated via the Phoronix Test Suite benchmarking software on Thursday, 28 March 2024 13:59.*