

www.phoronix-test-suite.com

NVIDIA Tegra 3

ARMv7 rev 9 testing with a cardhu and NVIDIA TEGRA on Ubuntu 11.04 via the Phoronix Test Suite.

Test Systems:

NVIDIA Tegra 3

Processor: ARMv7 rev 9 @ 1.40GHz (4 Cores), Motherboard: cardhu, Memory: 1024MB, Disk: 16GB SEM16G, Graphics: NVIDIA TEGRA, Network: Realtek RTL8111/8168B

OS: Ubuntu 11.04, Kernel: 3.1.10 (armv7l), Compiler: GCC 4.5.2, File-System: ext3, Screen Resolution: 1366x1536

NVIDIA Tegra 3

	NVIDIA Tegra 3
Apache Benchmark - S.W.P.S (Reqs/sec)	741.80
Standard Deviation	1.4%
Timed ImageMagick Compilation - Time To Compile (sec)	1027
Standard Deviation	3.5%
Timed MPlayer Compilation - Time To Compile (sec)	452.29
Standard Deviation	12.3%
Timed PHP Compilation - Time To Compile (sec)	466.05
Standard Deviation	3.5%
C-Ray - Total Time (sec)	551.32
Standard Deviation	0.1%
CacheBench - Read (MB/s)	1839
Standard Deviation	2.8%
CacheBench - Write (MB/s)	3682
Standard Deviation	3.9%
CacheBench - R.M.W (MB/s)	2625
Standard Deviation	5.6%
CLOMP - Static OMP Speedup (Speedup)	0.48
Standard Deviation	15.9%
7-Zip Compression - C.S.T (MIPS)	1509
Standard Deviation	1.8%
Gzip Compression - 2.F.C (sec)	192.89
Standard Deviation	1.5%
LZMA Compression - 2.F.C (sec)	720.94
Standard Deviation	1.4%
Parallel BZIP2 Compression - 2.F.C (sec)	123.71
Standard Deviation	4.7%
dcraw - R.T.P.I.C (sec)	542.15
Standard Deviation	0.5%
Monkey Audio Encoding - WAV To APE (sec)	96.88
Standard Deviation	6.7%
FLAC Audio Encoding - WAV To FLAC (sec)	52.70
Standard Deviation	0.9%
LAME MP3 Encoding - WAV To MP3 (sec)	106.98
Standard Deviation	7.4%
FFmpeg - AVI To NTSC VCD (sec)	185.80
Standard Deviation	1.1%
Gcrypt Library - C.E.C (us)	8357
Standard Deviation	1%
GnuPG - 1.F.E (sec)	75.10
Standard Deviation	1.4%
GraphicsMagick - HWB Color Space (Iterations/min)	30
Standard Deviation	0%
GraphicsMagick - Blur (Iterations/min)	13
Standard Deviation	0%
GraphicsMagick - L.A.T (Iterations/min)	10
Standard Deviation	0%
GraphicsMagick - Resizing (Iterations/min)	22
Standard Deviation	3.7%
GraphicsMagick - Sharpen (Iterations/min)	16
Standard Deviation	3.2%
Himeno Benchmark - P.P.S (MFLOPS)	133.39
Standard Deviation	3.2%

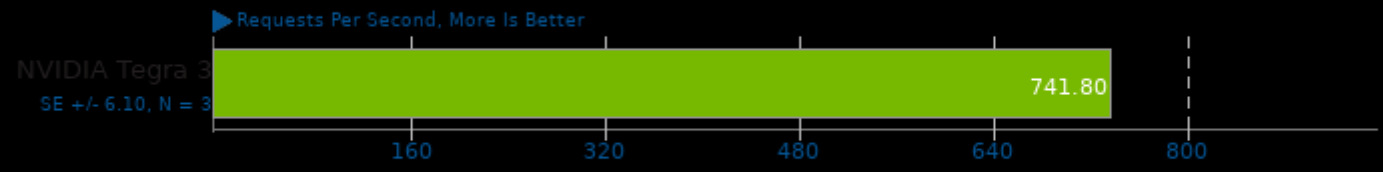
NVIDIA Tegra 3

Timed MAFFT Alignment - M.S.A (sec)	55.61
Standard Deviation	4.8%
Timed MrBayes Analysis - P.P.A (sec)	450.57
Standard Deviation	1.3%
NGINX Benchmark - S.W.P.S (Reqs/sec)	2216
Standard Deviation	1.6%
NAS Parallel Benchmarks - CG.B (Mop/s)	79.51
Standard Deviation	11.7%
NAS Parallel Benchmarks - EP.B (Mop/s)	18.58
Standard Deviation	2.2%
NAS Parallel Benchmarks - LU.A (Mop/s)	315.68
Standard Deviation	0.2%
NAS Parallel Benchmarks - MG.B (Mop/s)	305.89
Standard Deviation	0.5%
NAS Parallel Benchmarks - SP.A (Mop/s)	206.47
Standard Deviation	0.2%
NAS Parallel Benchmarks - UA.A (Mop/s)	2.35
Standard Deviation	0.4%
OpenSSL - R.4.b.P (Signs/sec)	4.98
Standard Deviation	2.5%
POV-Ray - Total Time (sec)	5469
RAMspeed SMP - Copy - Integer (MB/s)	1242
RAMspeed SMP - Copy - Floating Point (MB/s)	1257
RAMspeed SMP - Scale - Integer (MB/s)	1229
RAMspeed SMP - Scale - Floating Point (MB/s)	1220
RAMspeed SMP - Add - Integer (MB/s)	1173
RAMspeed SMP - Add - Floating Point (MB/s)	1231
RAMspeed SMP - Triad - Integer (MB/s)	1220
RAMspeed SMP - Triad - Floating Point (MB/s)	1202
RAMspeed SMP - Average - Integer (MB/s)	1196
RAMspeed SMP - Average - Floating Point (MB/s)	1207
Smallpt - G.I.R.1.S (sec)	1305
Standard Deviation	0%
Stream - Copy (MB/s)	1254
Standard Deviation	18.9%
Stream - Scale (MB/s)	1218
Standard Deviation	17.8%
Stream - Add (MB/s)	1233
Standard Deviation	11.3%
Stream - Triad (MB/s)	1187
Standard Deviation	12.3%
VP8 libvpx Encoding - vpxenc (FPS)	1.03
Standard Deviation	0.6%
x264 - H.2.V.E (FPS)	7.41
Standard Deviation	4.5%

NVIDIA Tegra 3

Apache Benchmark 2.2.21

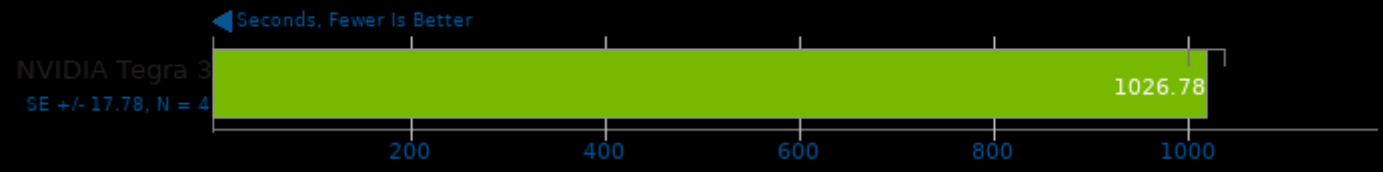
Static Web Page Serving



1. (CC) gcc options: -O2 -pthread -lm -lrt -lcrypt -lpthread -ldl

Timed ImageMagick Compilation 6.6.3-4

Time To Compile



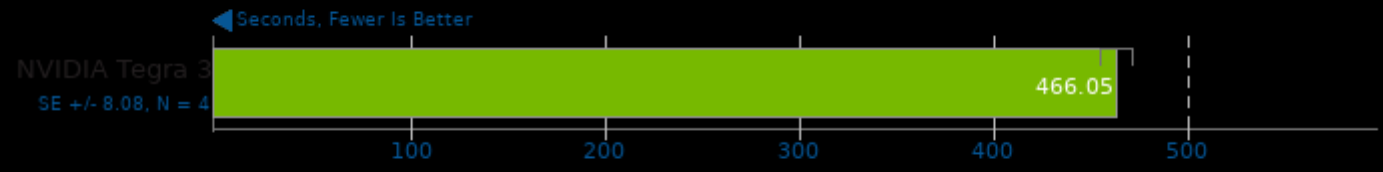
Timed MPlayer Compilation 1.0-rc3

Time To Compile



Timed PHP Compilation 5.2.9

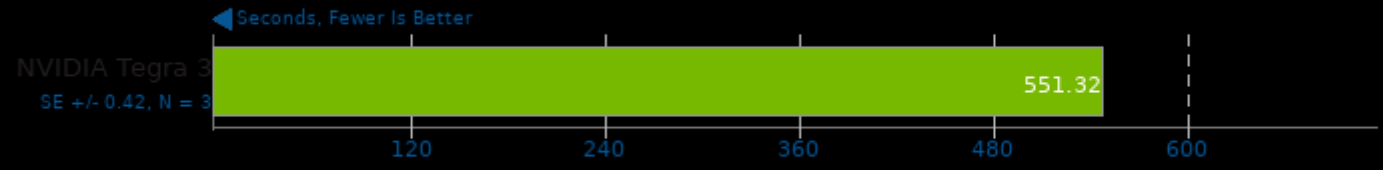
Time To Compile



1. (CC) gcc options: -O2 -pedantic -ldl -lz -lm

C-Ray 1.1

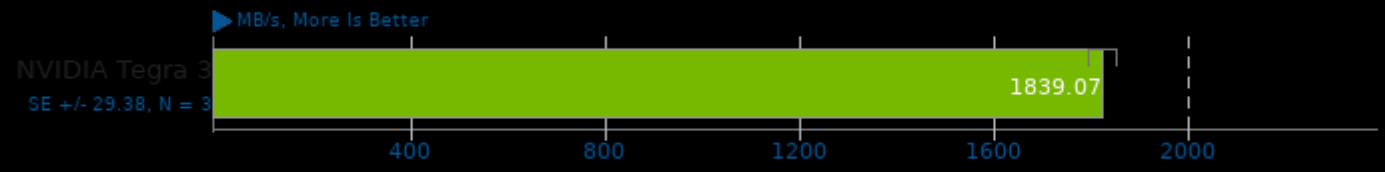
Total Time



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

CacheBench

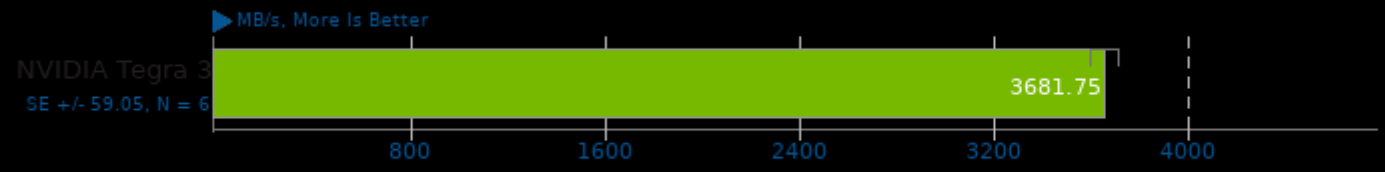
Test: Read



1. (CC) gcc options: -lrt

CacheBench

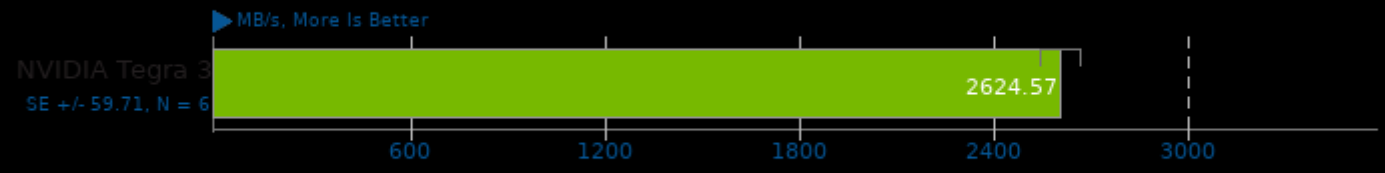
Test: Write



1. (CC) gcc options: -lrt

CacheBench

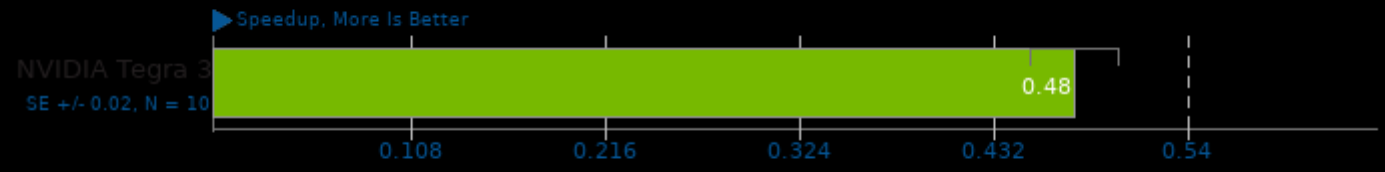
Test: Read / Modify / Write



1. (CC) gcc options: -lrt

CLOMP 3.3

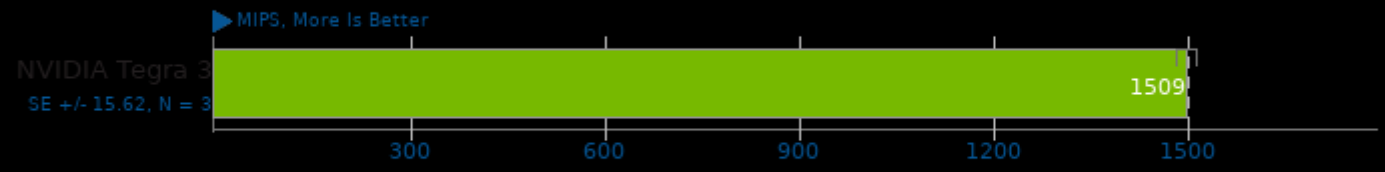
Static OMP Speedup



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

7-Zip Compression 9.20.1

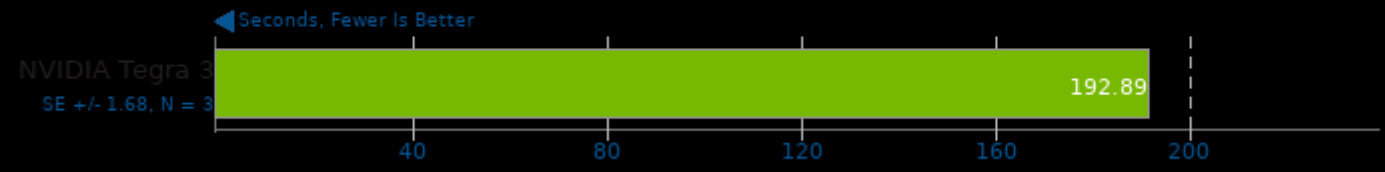
Compress Speed Test



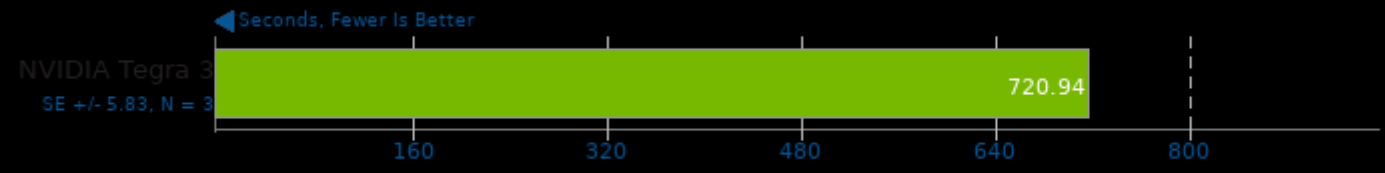
1. (CXX) g++ options: -pipe -lpthread

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Gzip Compression
2GB File Compression

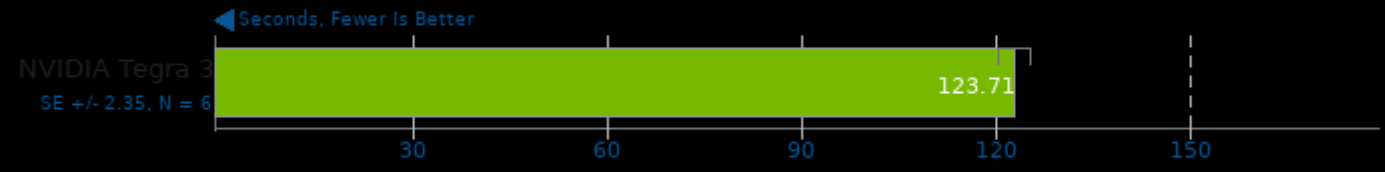


LZMA Compression
256MB File Compression



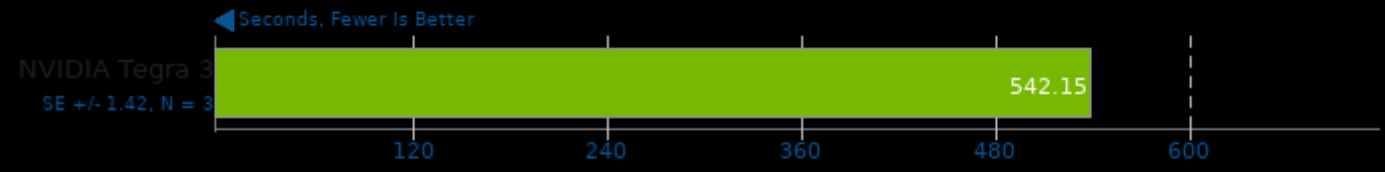
1. (CC) gcc options: -O2

Parallel BZIP2 Compression 1.0.5
256MB File Compression



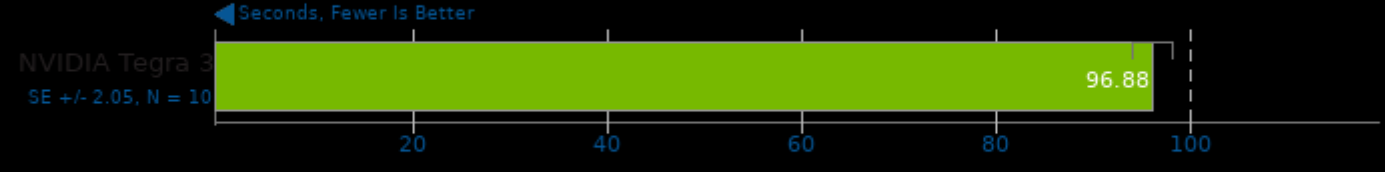
1. (CXX) g++ options: -O2 -pthread -lpthread -lbz2

dcraw
RAW To PPM Image Conversion



1. (CC) gcc options: -lm

Monkey Audio Encoding 3.99u4b5s6
WAV To APE



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

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FLAC Audio Encoding 1.2.1

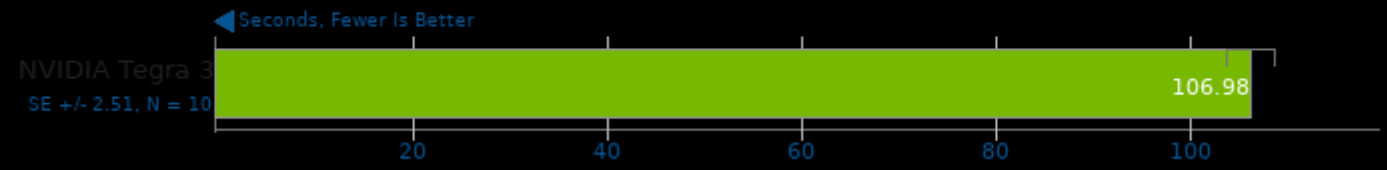
WAV To FLAC



1. (CXX) g++ options: -O2 -lm

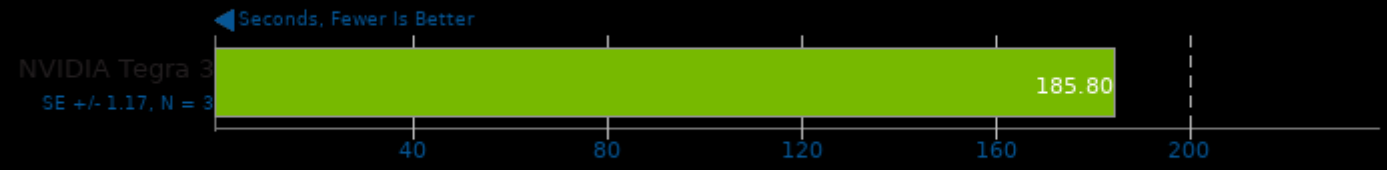
LAME MP3 Encoding 3.99.3

WAV To MP3



FFmpeg 0.10

AVI To NTSC VCD



1. (CC) gcc options: -lavdevice -lavfilter -lavformat -lavcodec -lswresample -lswscale -lavutil -ldl -lm -pthread

Gcrypt Library 1.4.4

CAMELLIA256-ECB Cipher



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

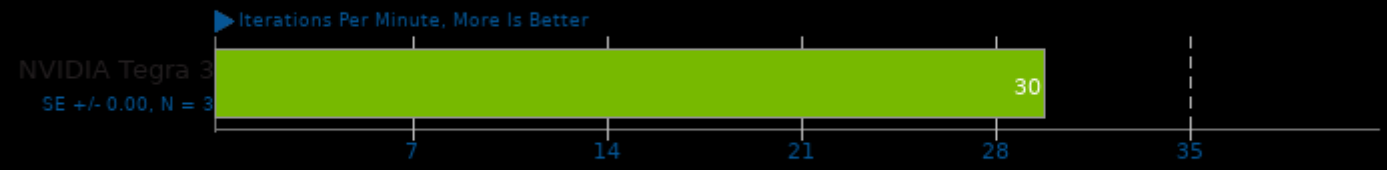
GnuPG 1.4.10

1GB File Encryption



GraphicsMagick 1.3.12

Operation: HWB Color Space



1. (CC) gcc options: -std=gnu99 -fopenmp -O2 -pthread -lXext -lSM -lICE -lX11 -lbz2 -lz -lm -lgomp -lpthread

GraphicsMagick 1.3.12

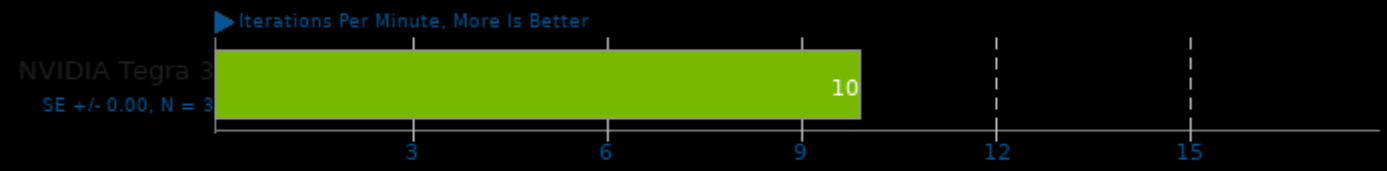
Operation: Blur



1. (CC) gcc options: -std=gnu99 -fopenmp -O2 -pthread -lXext -lSM -lICE -lX11 -lbz2 -lz -lm -lgomp -lpthread

GraphicsMagick 1.3.12

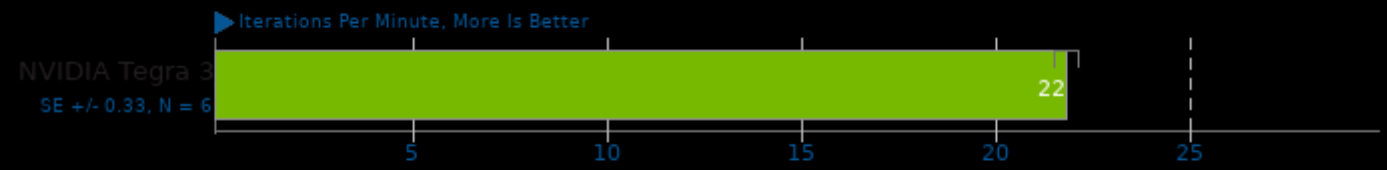
Operation: Local Adaptive Thresholding



1. (CC) gcc options: -std=gnu99 -fopenmp -O2 -pthread -lXext -lSM -lICE -lX11 -lbz2 -lz -lm -lgomp -lpthread

GraphicsMagick 1.3.12

Operation: Resizing



1. (CC) gcc options: -std=gnu99 -fopenmp -O2 -pthread -lXext -lSM -lICE -lX11 -lbz2 -lz -lm -lgomp -lpthread

GraphicsMagick 1.3.12

Operation: Sharpen

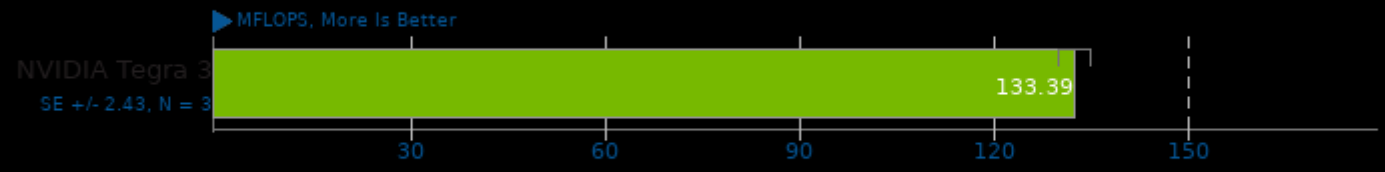


1. (CC) gcc options: -std=gnu99 -fopenmp -O2 -pthread -lXext -lSM -lICE -lX11 -lbz2 -lz -lm -lgomp -lpthread

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Himeno Benchmark 3.0

Poisson Pressure Solver



1. (CC) gcc options: -O3

Timed MAFFT Alignment 6.864

Multiple Sequence Alignment



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

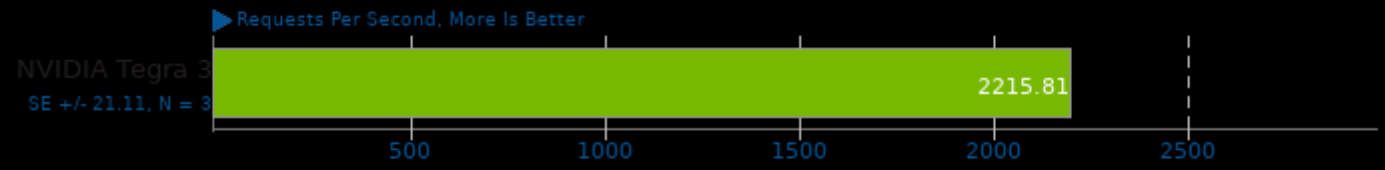
Timed MrBayes Analysis 3.1.2

Primate Phylogeny Analysis



NGINX Benchmark 1.0.11

Static Web Page Serving



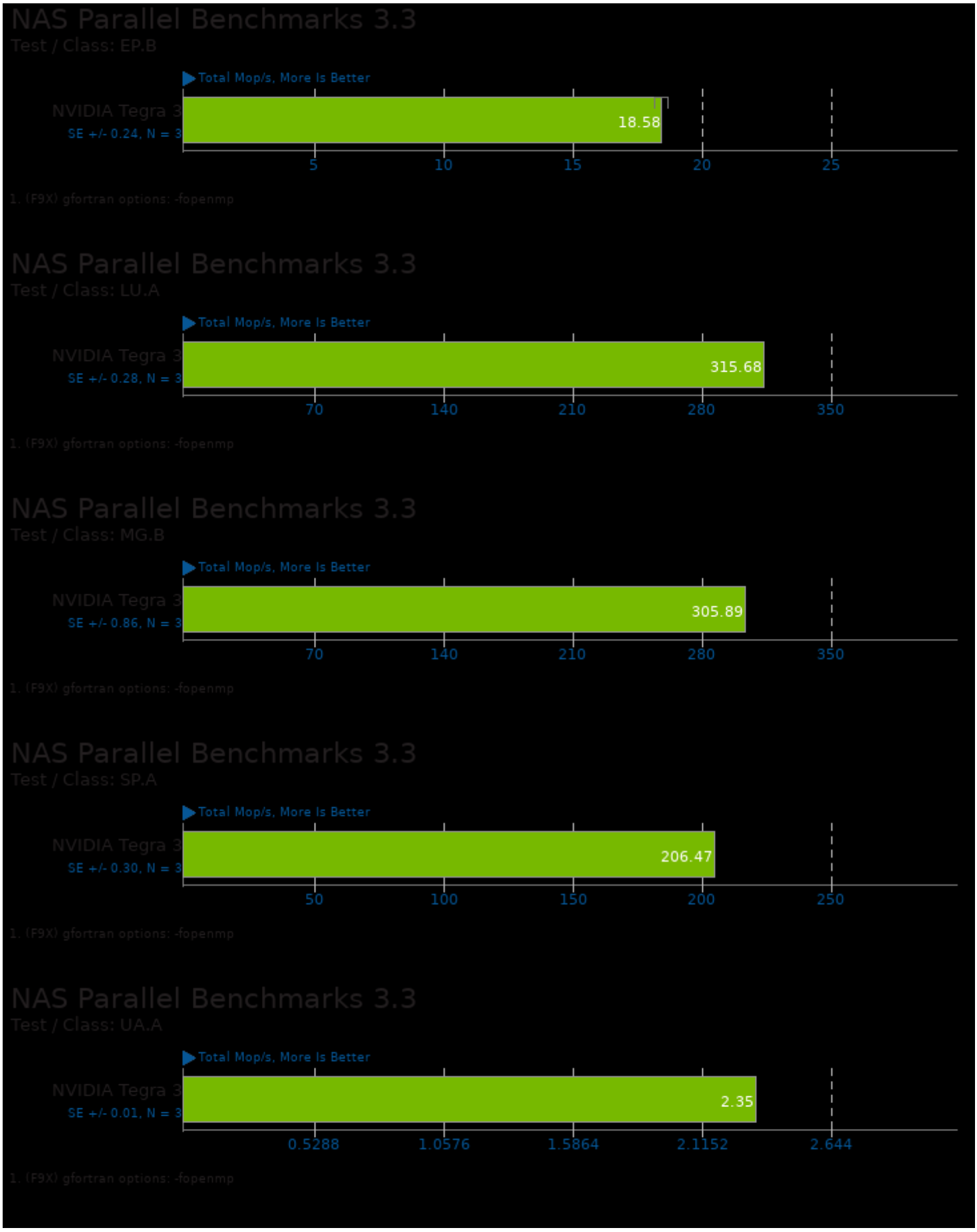
1. (CC) gcc options: -lpthread -lcrypt -lcrypto -lz

NAS Parallel Benchmarks 3.3

Test / Class: CG.B



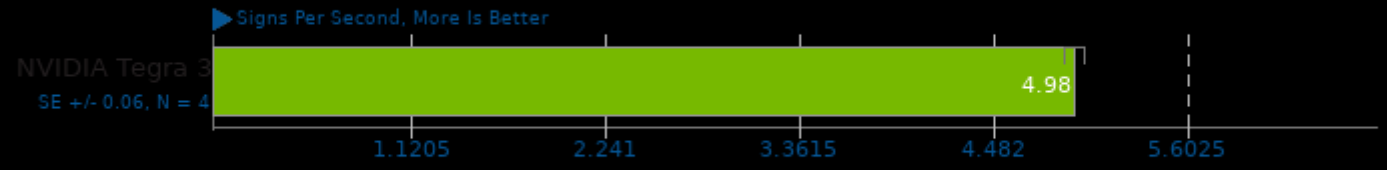
1. (F9X) gfortran options: -fopenmp


NAS Parallel Benchmarks 3.3
Test / Class: EP.B
Total Mop/s, More Is Better
NVIDIA Tegra 3
SE +/- 0.24, N = 3
18.58
5
10
15
20
25
1. (F9X) gfortran options: -fopenmp
NAS Parallel Benchmarks 3.3
Test / Class: LU.A
Total Mop/s, More Is Better
NVIDIA Tegra 3
SE +/- 0.28, N = 3
315.68
70
140
210
280
350
1. (F9X) gfortran options: -fopenmp
NAS Parallel Benchmarks 3.3
Test / Class: MG.B
Total Mop/s, More Is Better
NVIDIA Tegra 3
SE +/- 0.86, N = 3
305.89
70
140
210
280
350
1. (F9X) gfortran options: -fopenmp
NAS Parallel Benchmarks 3.3
Test / Class: SP.A
Total Mop/s, More Is Better
NVIDIA Tegra 3
SE +/- 0.30, N = 3
206.47
50
100
150
200
250
1. (F9X) gfortran options: -fopenmp
NAS Parallel Benchmarks 3.3
Test / Class: UA.A
Total Mop/s, More Is Better
NVIDIA Tegra 3
SE +/- 0.01, N = 3
2.35
0.5288
1.0576
1.5864
2.1152
2.644
1. (F9X) gfortran options: -fopenmp

NVIDIA Tegra 3

OpenSSL 1.0.0e

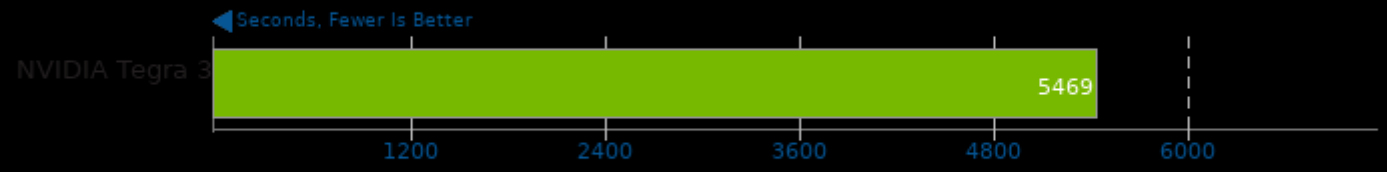
RSA 4096-bit Performance



1. (CC) gcc options: -O3 -lssl -lcrypto -ldl

POV-Ray 3.6.1

Total Time



1. (CXX) g++ options: -pipe -O3 -ltiff -ljpeg -lz -lSM -lICE -lX11 -lm

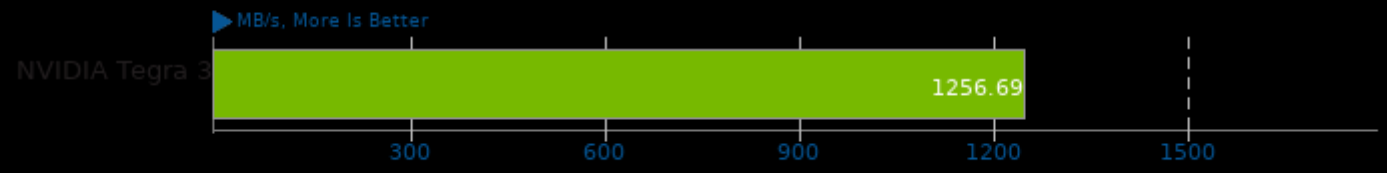
RAMspeed SMP 3.5.0

Type: Copy - Benchmark: Integer



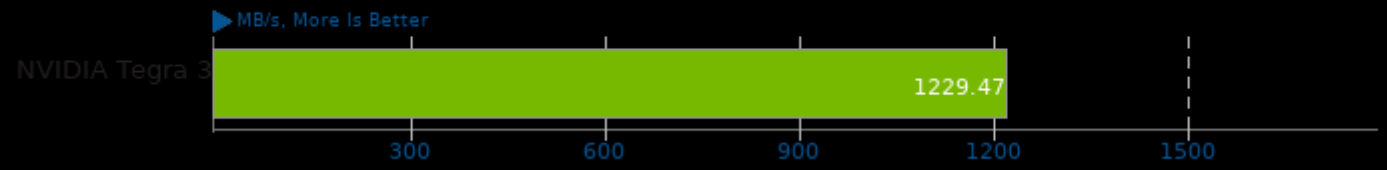
RAMspeed SMP 3.5.0

Type: Copy - Benchmark: Floating Point

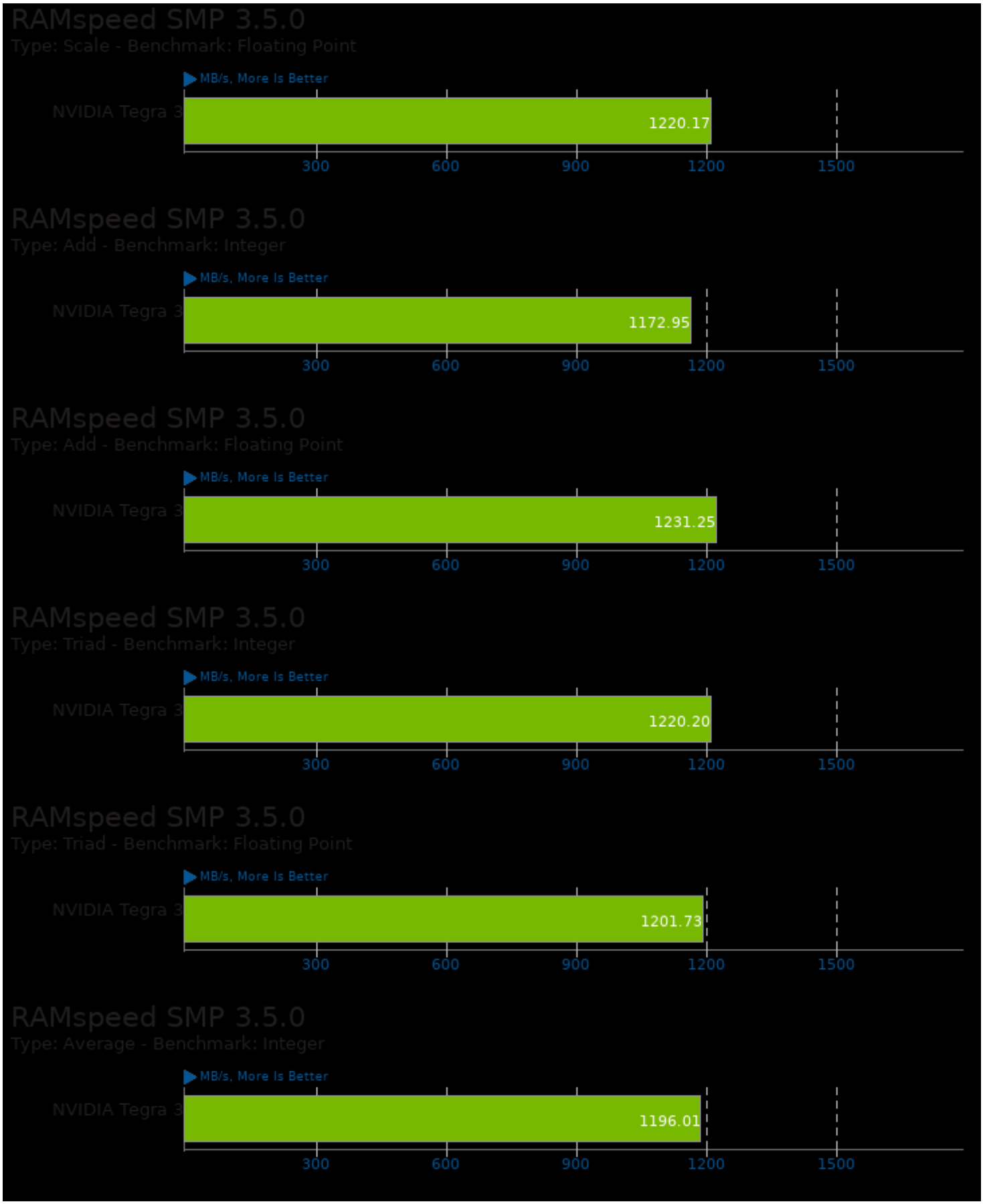


RAMspeed SMP 3.5.0

Type: Scale - Benchmark: Integer

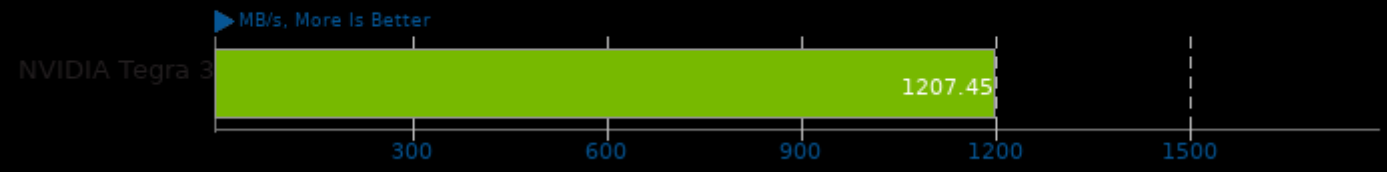


NVIDIA Tegra 3



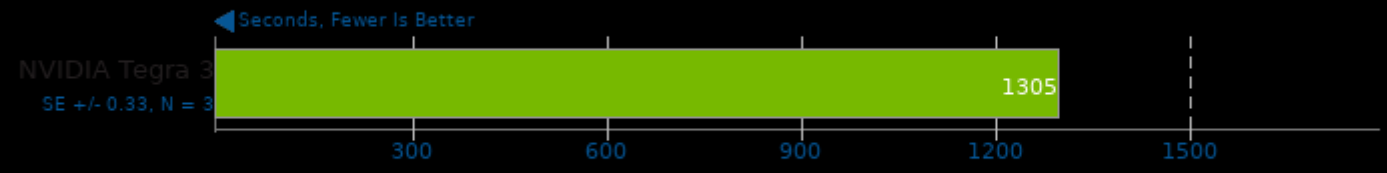
RAMspeed SMP 3.5.0

Type: Average - Benchmark: Floating Point



Smallpt 1.0

Global Illumination Renderer; 100 Samples



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

Stream 2009-04-11

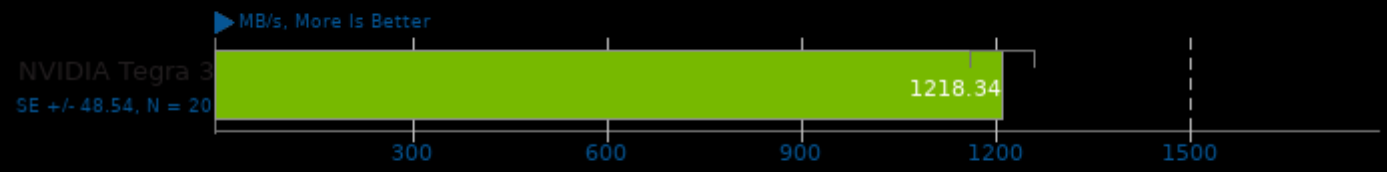
Type: Copy



1. (CC) gcc options: -O2 -fopenmp

Stream 2009-04-11

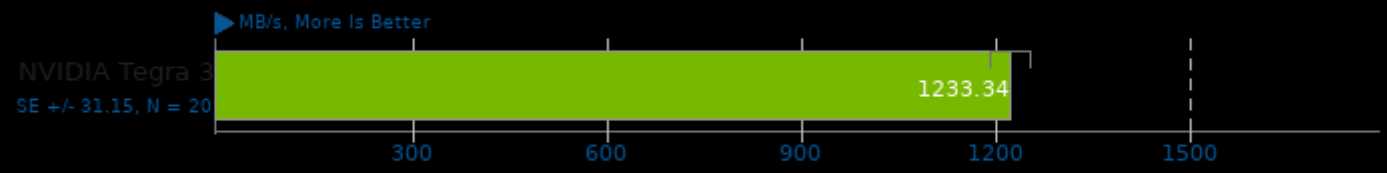
Type: Scale



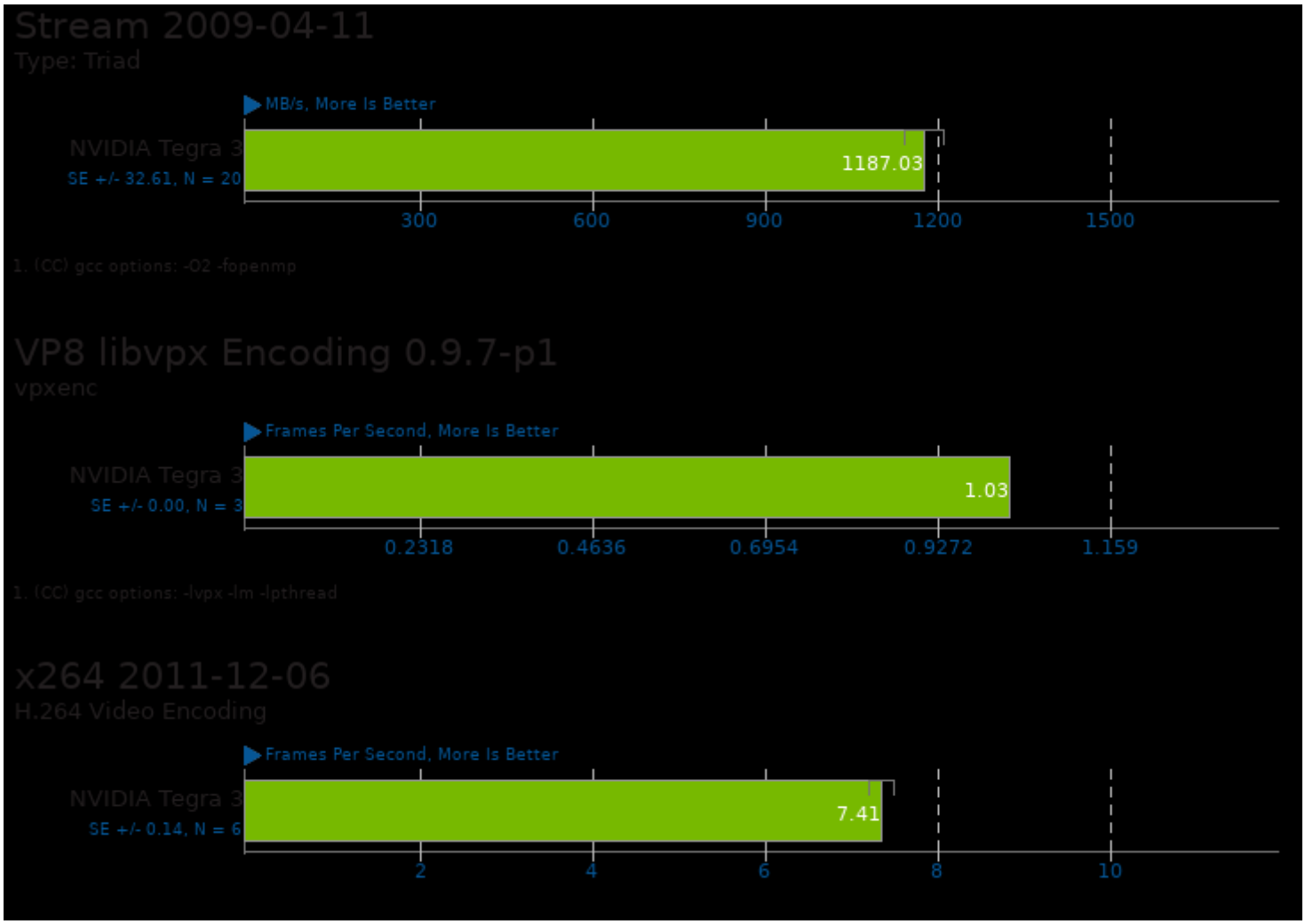
1. (CC) gcc options: -O2 -fopenmp

Stream 2009-04-11

Type: Add



1. (CC) gcc options: -O2 -fopenmp



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