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unrulycow

hisense chromebook

Test Systems:

ubuntu netbook

network

dolfyn

fft

dense lu

scimark jacobi

vp8

7zip

php

bzip2

flac

lame mp3

ffmpeg

Processor: ARMv7 rev 1 @ 1.80GHz (4 Cores), Motherboard: Rockchip (Device Tree), Memory: 2048MB, Disk: 16GB SDW16G

OS: Ubuntu 14.04, Kernel: 3.14.0 (armv7l), Compiler: GCC 4.8, File-System: ext4, Screen Resolution: 1366x768

Compiler Notes: --build=arm-linux-gnueabihf --disable-browser-plugin --disable-libitm --disable-libmudflap --disable-libquadmath --disable-sjlj-exceptions --disable-werror --enable-checking=release --enable-clocale=gnu --enable-gnu-unique-object --enable-gtk-cairo --enable-java-awt=gtk --enable-java-home --enable-languages=c,c++,java,go,d,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-directory=arm --with-arch=armv7-a --with-ecj-jar=/usr/share/java/eclipse-ecj.jar --with-float=hard --with-fpu=vfpv3-d16 --with-java-home=/usr/lib/jvm/java-1.5.0-gcj-4.8-armhf/jre --with-jvm-jar-dir=/usr/lib/jvm-exports/java-1.5.0-gcj-4.8-armhf --with-jvm-root-dir=/usr/lib/jvm/java-1.5.0-gcj-4.8-armhf --with-mode=thumb -v
Processor Notes: Scaling Governor: generic_cpu0 interactive

pts/chess

pts/xrender

pts/compression

pts/c-ray

pts/processor

pts/bullet

pts/mafft

pts/ffmpeg

pts/system-decompress-bzip2

pts/video-cpu-usage

Processor: Intel Core i5 540M @ 2.53GHz (4 Cores), Motherboard: LENOVO 3680BR3, Chipset: Intel Core DRAM, Memory: 8192MB, Disk: 320GB Western Digital WD3200BPVT-0, Graphics: Intel Core IGP, Audio: Conexant CX20585, Network: Intel 82577LM Gigabit Connection + Intel Centrino Advanced-N 6200

OS: Ubuntu 14.04, Kernel: 3.13.0-85-generic (x86_64), Desktop: Unity 7.2.6, Display Server: X Server 1.15.1, Display Driver: intel 2.99.910, OpenGL: 2.1 Mesa 10.1.3, Compiler: GCC 4.8, File-System: ext4, Screen Resolution: 1280x800

Compiler Notes: --build=x86_64-linux-gnu --disable-browser-plugin --disable-libmudflap --disable-werror --enable-checking=release --enable-clocale=gnu --enable-gnu-unique-object --enable-gtk-cairo --enable-java-awt=gtk --enable-java-home --enable-languages=c,c++,java,go,d,fortran,objc,obj-c++ --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-nls --enable-objc-gc --enable-plugin --enable-shared --enable-threads=posix --host=x86_64-linux-gnu --target=x86_64-linux-gnu --with-abi=m64 --with-arch-32=i686 --with-arch-directory=amd64 --with-ecj-jar=/usr/share/java/eclipse-ecj.jar --with-java-home=/usr/lib/jvm/java-1.5.0-gcj-4.8-amd64/jre --with-jvm-jar-dir=/usr/lib/jvm-exports/java-1.5.0-gcj-4.8-amd64 --with-jvm-root-dir=/usr/lib/jvm/java-1.5.0-gcj-4.8-amd64 --with-multilib-list=m32,m64,mx32 --with-tune=generic -v
Graphics Notes: SNA

mabuntu-cpu-1

mabuntu-cpu-2

mabuntu-cpu-3

mabuntu-cpu-4

mabuntu-cpu-5

mabuntu-cpu-6

mabuntu-cpu-7

mabuntu-mem-1

mabuntu-mem-2

mabuntu-mem-3

mabuntu-sys-1

mabuntu-sys-2

mabuntu-sys-3

mabuntu-dsk-1

Processor: AMD E-350 APU @ 1.60GHz (2 Cores), Motherboard: eMachines EL1360G, Chipset: AMD Family 14h Root Complex, Memory: 3584MB, Disk: 500GB Seagate ST3500413AS, Graphics: AMD Radeon HD 6310, Audio: AMD Wrestler HDMI Audio, Monitor: SyncMaster + iL195ABB, Network: Realtek RTL8111/8168/8411

OS: Ubuntu 14.04, Kernel: 3.13.0-74-generic (x86_64), Desktop: Xfce 4.10, Display Server: X Server 1.15.1, Display Driver: radeon 7.3.0, OpenGL: 3.3 Mesa 10.1.3 Gallium 0.4, Compiler: GCC 4.8.4, File-System: ext4, Screen Resolution: 1366x768

Compiler Notes: --build=x86_64-linux-gnu --disable-browser-plugin --disable-libmudflap --disable-werror --enable-checking=release --enable-clocale=gnu --enable-gnu-unique-object --enable-gtk-cairo --enable-java-awt=gtk --enable-java-home --enable-languages=c,c++,java,go,d,fortran,objc,obj-c++ --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-nls --enable-objc-gc --enable-plugin --enable-shared --enable-threads=posix --host=x86_64-linux-gnu --target=x86_64-linux-gnu --with-abi=m64 --with-arch-32=i686 --with-arch-directory=amd64 --with-multilib-list=m32,m64,mx32 --with-tune=generic -v
Disk Notes: DEADLINE / data=ordered,errors=remount-ro,relatime,rw
Processor Notes: Scaling Governor: acpi-cpufreq ondemand

rk3188.ubuntu1404.4core.cpu.selected

RK3188.UBUNTU1404.4CORE

Processor: ARMv7 rev 0 @ 1.61GHz (4 Cores), Motherboard: RK30board, Memory: 2048MB, Disk: 32GB SD

OS: Ubuntu 14.04, Kernel: 3.0.36+ (armv7l), Compiler: GCC 4.8, File-System: ext4, Screen Resolution: 1920x1080

Compiler Notes: --build=arm-linux-gnueabihf --disable-browser-plugin --disable-libitm --disable-libmudflap --disable-libquadmath --disable-sjlj-exceptions --disable-werror --enable-checking=release --enable-clocale=gnu --enable-gnu-unique-object --enable-gtk-cairo --enable-java-awt=gtk --enable-java-home --enable-languages=c,c++,java,go,d,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-directory=arm --with-arch=armv7-a --with-ecj-jar=/usr/share/java/eclipse-ecj.jar --with-float=hard --with-fpu=vfpv3-d16 --with-java-home=/usr/lib/jvm/java-1.5.0-gcj-4.8-armhf/jre --with-jvm-jar-dir=/usr/lib/jvm-exports/java-1.5.0-gcj-4.8-armhf --with-jvm-root-dir=/usr/lib/jvm/java-1.5.0-gcj-4.8-armhf --with-mode=thumb -v
Processor Notes: Scaling Governor: rk3188 interactive

ubu-14-001

ubu-14-0011

ubu-14-002

ubu-14-0022

ubu-14-003

ubu-14-004

ubu-14-005

ubu-14-006

ubu-14-007

ubu-14-008

ubu-14-009

ubu-14-010

ubu-14-011

ubu-14-012

Processor: 2 x Intel Xeon X5472 @ 3.00GHz (8 Cores), Motherboard: HP ProLiant DL160 G5, Chipset: Intel 5400 MCH, Memory: 8 x 4096 MB DDR2-800MHz, Disk: 636GB Logical Volume, Graphics: Matrox s MGA G200e [Pilot] (SEP1), Network: Broadcom NetXtreme BCM5722 Gigabit PCI

OS: Ubuntu 14.04, Kernel: 3.13.0-32-generic (x86_64), Compiler: GCC 4.8, File-System: ext4, Screen Resolution: 1024x768

Processor Notes: Scaling Governor: acpi-cpufreq performance

Intel Xeon E5-2430 v2

Processor: 2 x Intel Xeon E5-2430 v2 @ 2.50GHz (24 Cores), Motherboard: Dell 03P5P3, Chipset: Intel Xeon E7 v2/Xeon, Memory: 16384 MB + 16384 MB + 16384 MB + 8192 MB + 8192 MB + 8192 MB + 16384 MB + 16384 MB +

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16384 MB + 8192 MB + 8192 MB + 8192 MB DDR3-1600MHz, Disk: 8 x 2000GB Seagate ST2000NM0023, Graphics: Matrox s G200eR2, Network: Broadcom NetXtreme BCM5720 Gigabit PCIe

OS: Ubuntu 14.04, Kernel: 3.13.0-137-generic (x86_64), Compiler: GCC 4.8, File-System: ext4, Screen Resolution: 640x480

Compiler Notes: --build=x86_64-linux-gnu --disable-browser-plugin --disable-libmudflap --disable-werror --enable-checking=release --enable-clocale=gnu --enable-gnu-unique-object --enable-gtk-cairo --enable-java-awt=gtk --enable-java-home --enable-languages=c,c++,java,go,d,fortran,objc,obj-c++ --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-nls --enable-objc-gc --enable-plugin --enable-shared --enable-threads=posix --host=x86_64-linux-gnu --target=x86_64-linux-gnu --with-abi=m64 --with-arch-32=i686 --with-arch-directory=amd64 --with-ecj-jar=/usr/share/java/eclipse-ecj.jar --with-java-home=/usr/lib/jvm/java-1.5.0-gcj-4.8-amd64/jre --with-jvm-jar-dir=/usr/lib/jvm-exports/java-1.5.0-gcj-4.8-amd64 --with-jvm-root-dir=/usr/lib/jvm/java-1.5.0-gcj-4.8-amd64 --with-multilib-list=m32,m64,mx32 --with-tune=generic -v


undfdsv7pbflfpppppppppppppppppppppRuuuuuuuuuuuuuuul
beofecpzhzlafttttttttttaaaaaaaaaaaaaaakKbbbbbbbbbbbbbbn
utltni8ipiaππssssssssssbbbbbbbbbbbbbb33uuuuuuuuuuuuuut
nwf sπ p pcep/////////uuuuuuuuuuuuuuu11----------------e
toy ea 2 ecxccpbπfsvnnnnnnnnnnnnnnn881111111111111111l
urn r πghro-ruafyittttttttttttttt8844444444444444X
k lk p eeππrolfπsduuuuuuuuuuuuuuu..----------------e
n u 3 snpaclfpte----------------uU000000000000000o
e j sdryeeteeocccccccππsssdbB0000000000001111n
t a ee st gπ-ppppppppeeeyyysuU1122345678901 2
b c rs s -cuuuuuuuππsssknN 1 2 E
o o s o dp----------------tT 5
o b i r eu12345671231231uU -
k i o c- 11 2
n ou 44 4
πs 00 3
pa 44 0
rg ..
ee 44 v
s cC 2
s oO
- rR
b eE
z .
i c
p p
2 u
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s
e
l
e
c
t
e
d

SciMark-F.FFT (Mflops)	46.32	10.27	5.49	**19.76**	45.90	**28.60**
Normalized	16.04	36.09	19.69	7.00	11.77	10.00
	45%	36%	69%	%	68%	%
Standard Deviation	1.72%	0.23%	3.58%	2.12%	3.05%	2.65%
SciMark-D.LM.F (Mflops)	34.71	8.61	3.14	**12.16**		**18.81**
Normalized	18.04	36.06	14.64	6.54		10.00
	45%	36%	74%	%		%
Standard Deviation	0.21%	0.51%	2.65%	1.65%		1.04%

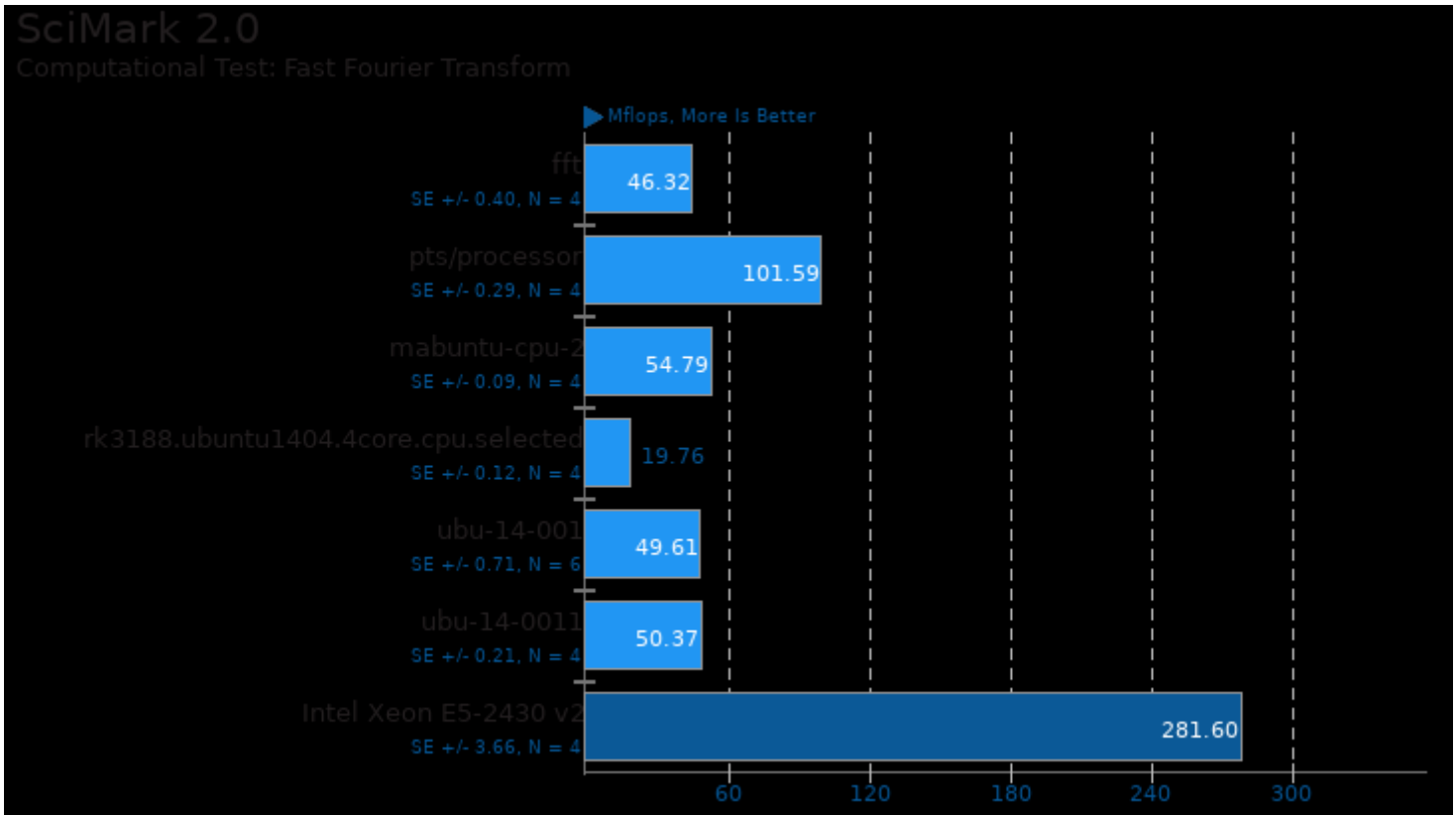
SciMark - J.S.O.R (Mflops)	3 9 7 . 9 8	8 4 8 . 7 2	3 6 6 . 9 3	2 8 1 . 0 9	8 9 6 . 5 2
Normalized	4 4 . 3 9 %	9 4 0 . 6 7 %	4 0 . 9 3 %	3 1 . 3 5 %	1 0 0 %
Standard Deviation	0 %	0 . 1 %	0 . 2 %	1 . 7 %	0 . 3 %

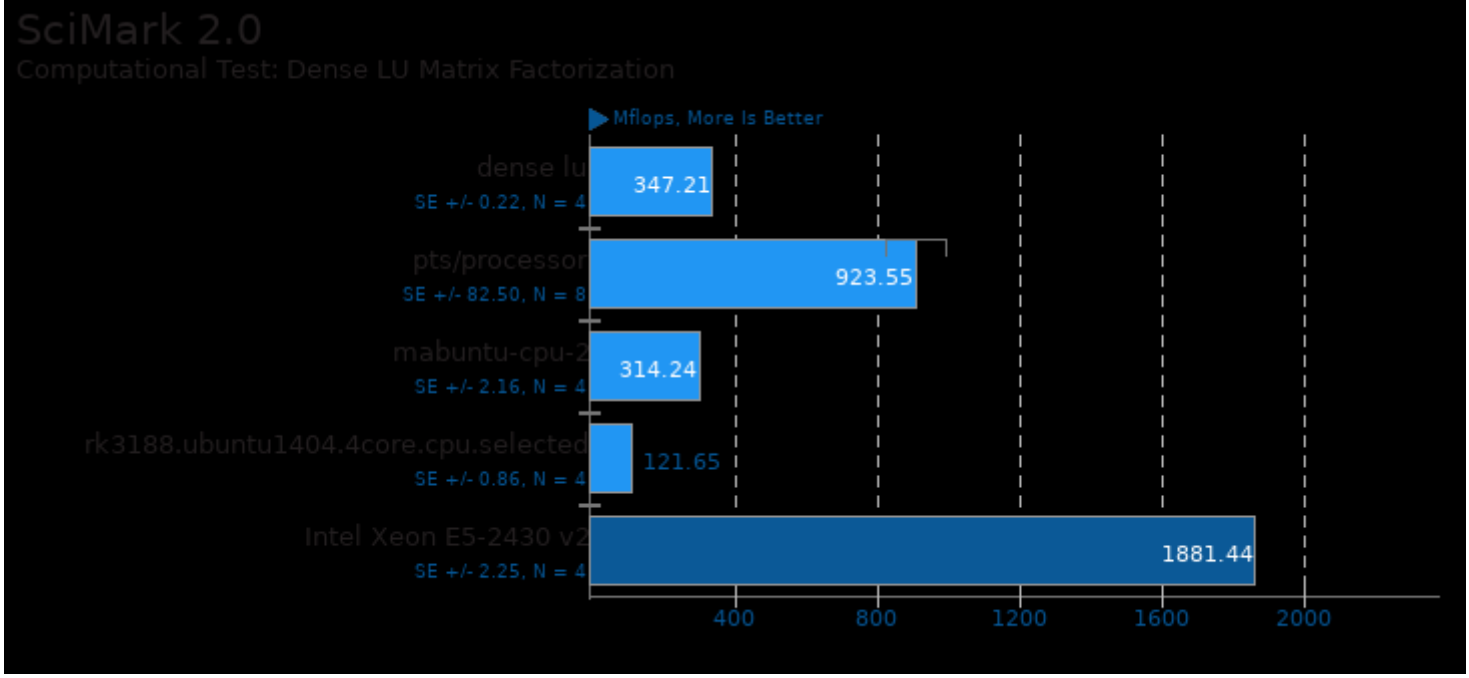
SciMark - Composite (Mflops)	5 8 3 . 1 8	2 2 4 . 0 2	**1** **3** **4** **.** **4** **6**	**1** **0** **3** **8**
Normalized	5 6 . 1 8 %	2 1 . 5 8 %	1 2 . 9 5 %	1 0 0 %
Standard Deviation	1 4 . 8 %	0 . 8 %	1 . 6 %	0 . 4 %

SciMark - Monte Carlo (Mflops)	3 8 9 . 1 6	1 2 0 . 7 4	107.71	423.92
Normalized	9 1 . 8 %	2 8 . 4 8 %	2 5 . 4 1 %	1 0 0 %
Standard Deviation	1 . 8 %	7 . 1 %	1 . 1 %	0 . 3 %
SciMark - S.M.M (Mflops)	7 0 9 . 2 5	2 6 3 . 4 2	142.10	170.06
Normalized	4 1 . 5 6 %	1 5 . 4 4 %	8 . 3 3 %	1 0 0 %

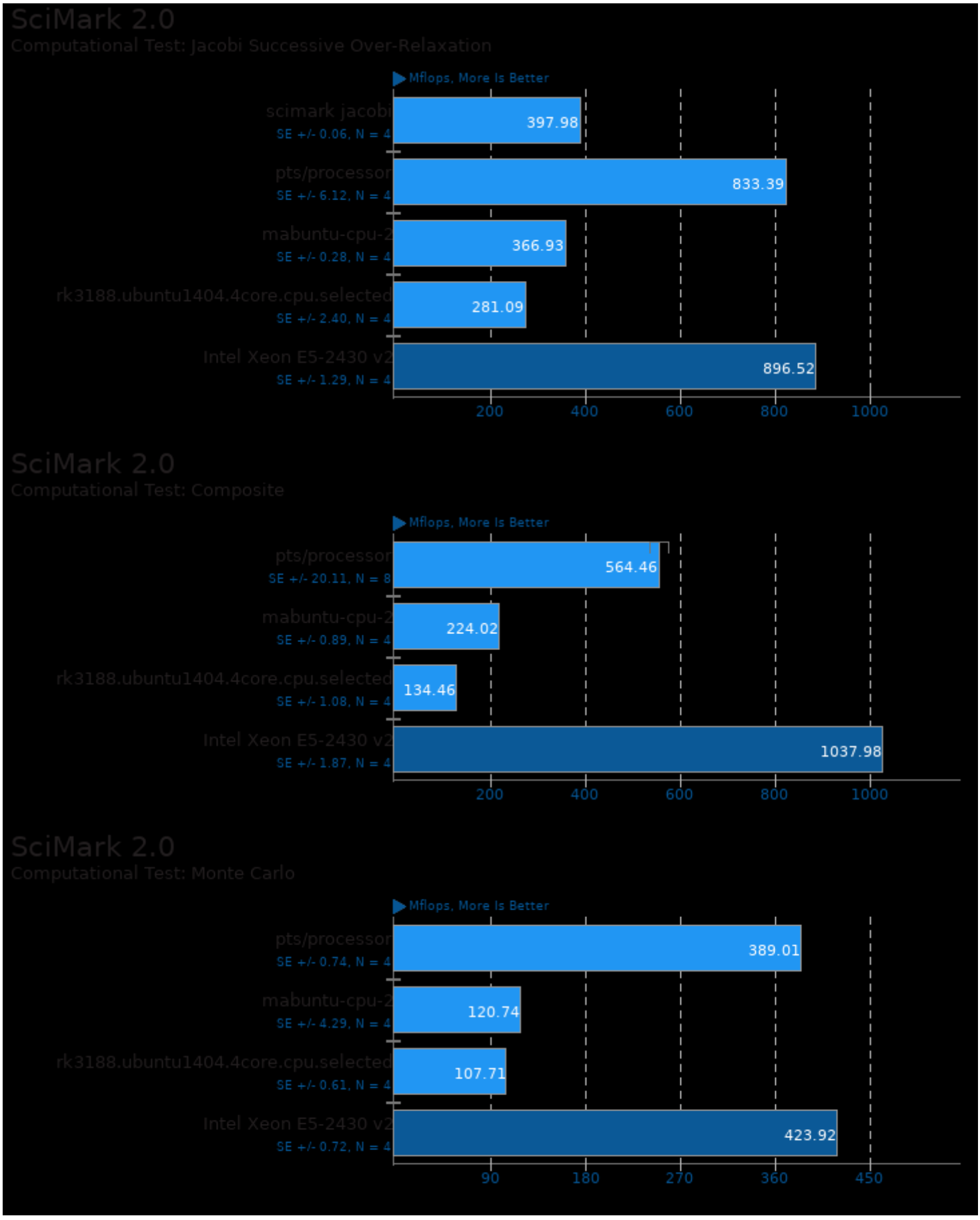
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Standard Deviation	2.7 %	0.4 %	2.1 %	0.4 %

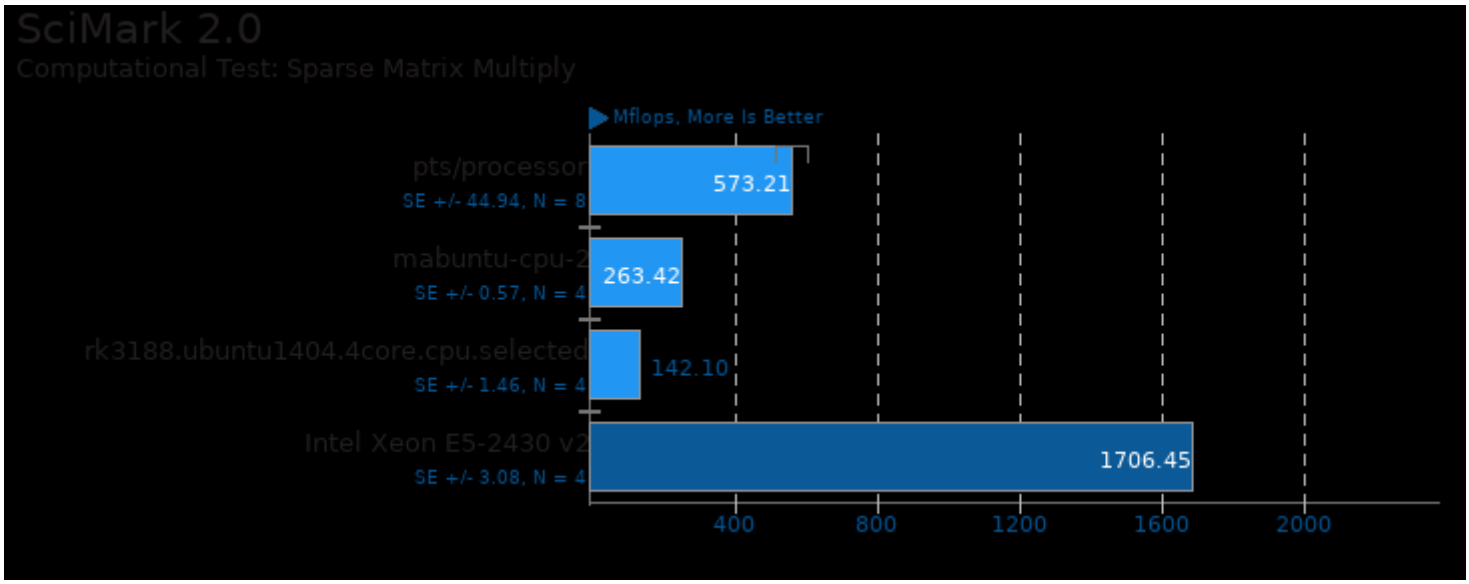

SciMark 2.0
Computational Test: Fast Fourier Transform
Mflops, More Is Better
fft
SE +/- 0.40, N = 4
46.32
pts/processor
SE +/- 0.29, N = 4
101.59
mabuntu-cpu-2
SE +/- 0.09, N = 4
54.79
rk3188.ubuntu1404.4core.cpu.selected
SE +/- 0.12, N = 4
19.76
ubu-14-001
SE +/- 0.71, N = 6
49.61
ubu-14-0011
SE +/- 0.21, N = 4
50.37
Intel Xeon E5-2430 v2
SE +/- 3.66, N = 4
281.60
60
120
180
240
300


SciMark 2.0
Computational Test: Dense LU Matrix Factorization
Mflops, More Is Better
dense lu
SE +/- 0.22, N = 4
347.21
pts/processor
SE +/- 82.50, N = 8
923.55
mabuntu-cpu-2
SE +/- 2.16, N = 4
314.24
rk3188.ubuntu1404.4core.cpu.selected
SE +/- 0.86, N = 4
121.65
Intel Xeon E5-2430 v2
SE +/- 2.25, N = 4
1881.44
400
800
1200
1600
2000

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SciMark 2.0
Computational Test: Jacobi Successive Over-Relaxation
Mflops, More Is Better
scimark jacobi
SE +/- 0.06, N = 4
397.98
pts/processor
SE +/- 6.12, N = 4
833.39
mabuntu-cpu-2
SE +/- 0.28, N = 4
366.93
rk3188.ubuntu1404.4core.cpu.selected
SE +/- 2.40, N = 4
281.09
Intel Xeon E5-2430 v2
SE +/- 1.29, N = 4
896.52
200
400
600
800
1000
SciMark 2.0
Computational Test: Composite
Mflops, More Is Better
pts/processor
SE +/- 20.11, N = 8
564.46
mabuntu-cpu-2
SE +/- 0.89, N = 4
224.02
rk3188.ubuntu1404.4core.cpu.selected
SE +/- 1.08, N = 4
134.46
Intel Xeon E5-2430 v2
SE +/- 1.87, N = 4
1037.98
200
400
600
800
1000
SciMark 2.0
Computational Test: Monte Carlo
Mflops, More Is Better
pts/processor
SE +/- 0.74, N = 4
389.01
mabuntu-cpu-2
SE +/- 4.29, N = 4
120.74
rk3188.ubuntu1404.4core.cpu.selected
SE +/- 0.61, N = 4
107.71
Intel Xeon E5-2430 v2
SE +/- 0.72, N = 4
423.92
90
180
270
360
450

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