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~/THINKPAD_T410S_KERNEL_5.8.0-44.txt

Intel Core i5 540M testing with a LENOVO 2924BV6 (6UET70WW 1.50 BIOS) and Intel HD 2GB on Ubuntu 20.04 via the Phoronix Test Suite.

Test Systems:

THINKPAD T410S KERNEL 5.8.0-44

TOSHIBA MK2533GS - Intel HD - Intel Core i5 540M

Processor: Intel Core i5 540M @ 2.53GHz (2 Cores / 4 Threads), Motherboard: LENOVO 2924BV6 (6UET70WW 1.50 BIOS), Chipset: Intel Core DRAM, Memory: 8GB, Disk: 250GB TOSHIBA MK2533GS + 480GB CT480BX500SSD1, Graphics: Intel HD 2GB, Audio: Conexant CX20585, Network: Intel 82577LM + Intel Centrino Advanced-N 6200

OS: Ubuntu 20.04, Kernel: 5.8.0-44-generic (x86_64), Desktop: KDE Plasma 5.18.5, Display Server: X Server 1.20.9, OpenGL: 2.1 Mesa 20.2.6, Compiler: GCC 9.3.0 + Clang 10.0.0-4ubuntu1, File-System: xfs, Screen Resolution: 1440x900

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,obj-c++,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
Disk Notes: MQ-DEADLINE / attr2,inode64,logbsize=32k,logbufs=8,noatime,noquota,rw / Block Size: 4096
Processor Notes: Scaling Governor: acpi-cpufreq ondemand (Boost: Enabled) - CPU Microcode: 0x7
Security Notes: itlb_multihit: KVM: Mitigation of VMX disabled + l1tf: Mitigation of PTE Inversion; VMX: conditional cache flushes SMT vulnerable + mds: Vulnerable: Clear buffers attempted no microcode; SMT vulnerable + meltdown: Mitigation of PTI + spec_store_bypass: Mitigation of SSB disabled via prctl and seccomp + spectre_v1: Mitigation of usercopy/swapgs barriers and __user pointer sanitization + spectre_v2: Mitigation of Full generic retpoline IBPB: conditional IBRS_FW STIBP: conditional RSB filling + srbds: Not affected + tsx_async_abort: Not affected

THINKPAD T410S KERNEL 5.8.0-44 with nouveau driver

Processor: Intel Core i5 540M @ 2.53GHz (2 Cores / 4 Threads), Motherboard: LENOVO 2924BV6 (6UET70WW 1.50 BIOS), Chipset: Intel Core DRAM, Memory: 8GB, Disk: 250GB TOSHIBA MK2533GS + 480GB CT480BX500SSD1, Graphics: Intel HD 2GB, Audio: Conexant CX20585, Network: Intel 82577LM + Intel Centrino Advanced-N 6200

OS: Ubuntu 20.04, Kernel: 5.8.0-44-generic (x86_64), Desktop: KDE Plasma 5.18.5, Display Server: X Server 1.20.9, OpenGL: 3.3 Mesa 20.2.6, Compiler: GCC 9.3.0 + Clang 10.0.0-4ubuntu1, File-System: xfs, Screen Resolution: 1440x900

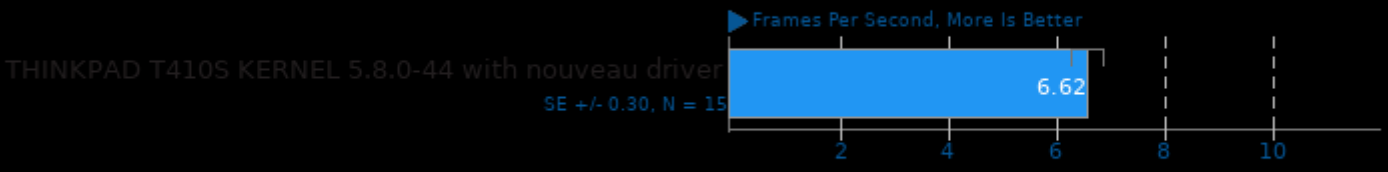
Kernel Notes: Transparent Huge Pages: madvise
Environment Notes: DRI_PRIME=1
Compiler Notes: --build=x86_64-linux-gnu --disable-vtable-verify --disable-werror --enable-checking=release --enable-clocale=gnu --enable-default-pie --enable-gnu-unique-object --enable-languages=c,ada,c++,go,brig,d,fortran,objc,obj-c++,gm2 --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: acpi-cpufreq ondemand (Boost: Enabled) - CPU Microcode: 0x7
Security Notes: itlb_multihit: KVM: Mitigation of VMX disabled + l1tf: Mitigation of PTE Inversion; VMX: conditional cache flushes SMT vulnerable + mds: Vulnerable: Clear buffers attempted no microcode; SMT vulnerable + meltdown: Mitigation of PTI + spec_store_bypass: Mitigation of SSB disabled via prctl and seccomp + spectre_v1: Mitigation of usercopy/swapgs barriers and __user pointer sanitization + spectre_v2: Mitigation of Full generic retpoline IBPB: conditional IBRS_FW STIBP: conditional RSB filling + srbds: Not affected + tsx_async_abort: Not affected

	THINKPAD T410S KERNEL 5.8.0-44	TOSHIBA MK2533GS - Intel HD - Intel Core i5 540M	THINKPAD T410S KERNEL 5.8.0-44 with nouveau driver
x264 - H.2.V.E (FPS)			6.62
Standard Deviation			17.4%
7-Zip Compression - C.S.T (MIPS)			5159
Standard Deviation			16.6%
GLmark2 - 800 x 600 (Score)			350
GLmark2 - 1024 x 768 (Score)			232
GLmark2 - 1440 x 900 (Score)			187
Tesseract - 800 x 600 (FPS)	12.11219		26.07648
Normalized	46.45%		100%
Standard Deviation	0.3%		0.5%
Tesseract - 1440 x 900 (FPS)			15.68277
Standard Deviation			0.4%
Tesseract - 1024 x 768 (FPS)			19.45535
Standard Deviation			0.1%
SciMark - Composite (Mflops)			314.77
Standard Deviation			0.1%

FS-Mark - 1.F.1.S (Files/s)	139.4	
Standard Deviation	1.1%	
SciMark - J.S.O.R (Mflops)		721.81
Standard Deviation		0%
SciMark - D.L.M.F (Mflops)		379.09
Standard Deviation		0%
SciMark - S.M.M (Mflops)		323.34
Standard Deviation		0.3%
SciMark - F.F.T (Mflops)		71.64
Standard Deviation		0.2%
SciMark - Monte Carlo (Mflops)		77.95
Standard Deviation		0.1%

x264 2019-12-17

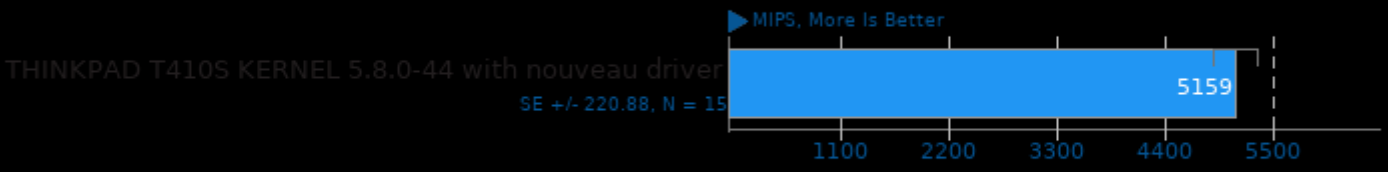
H.264 Video Encoding



1. (CC) gcc options: -ldl -m64 -lm -lpthread -O3 -ffast-math -std=gnu99 -fPIC -fomit-frame-pointer -fno-tree-vectorize

7-Zip Compression 16.02

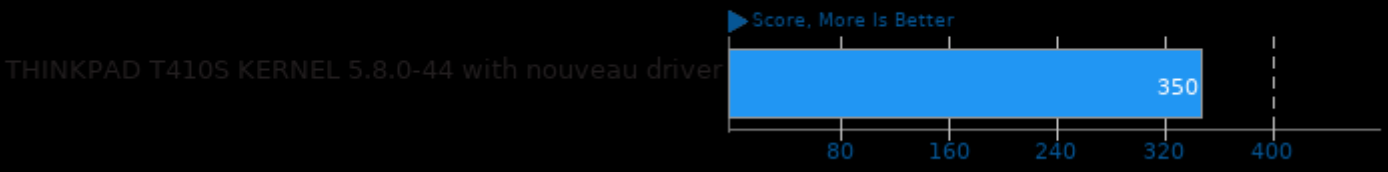
Compress Speed Test



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

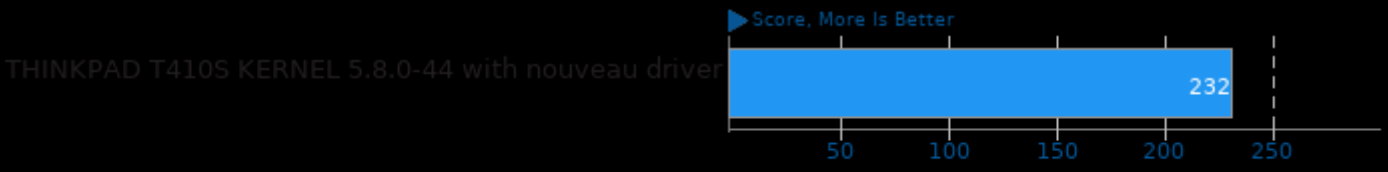
GLmark2

Resolution: 800 x 600



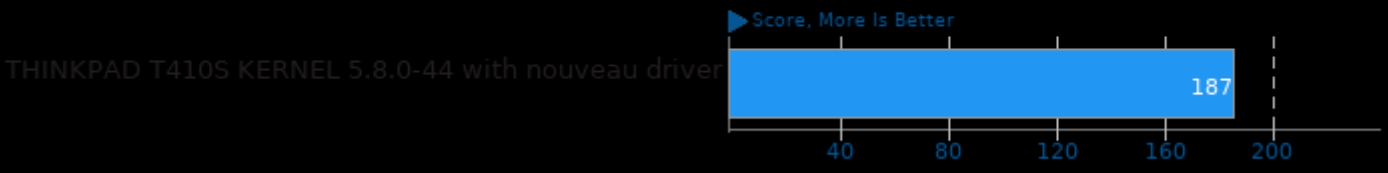
GLmark2

Resolution: 1024 x 768



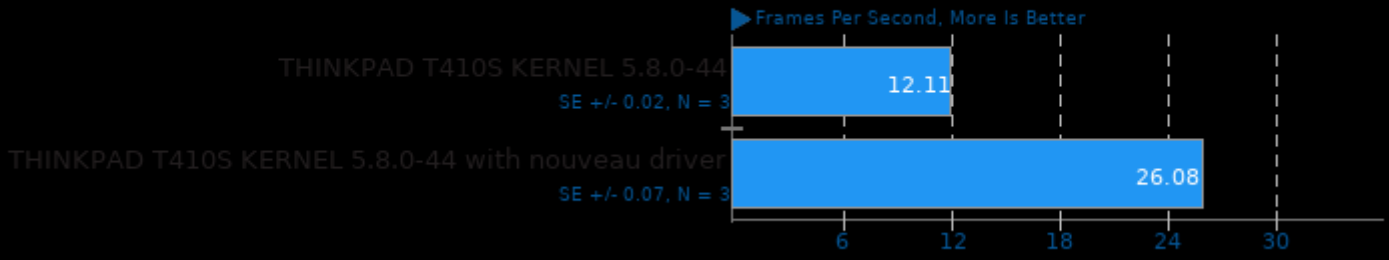
GLmark2

Resolution: 1440 x 900



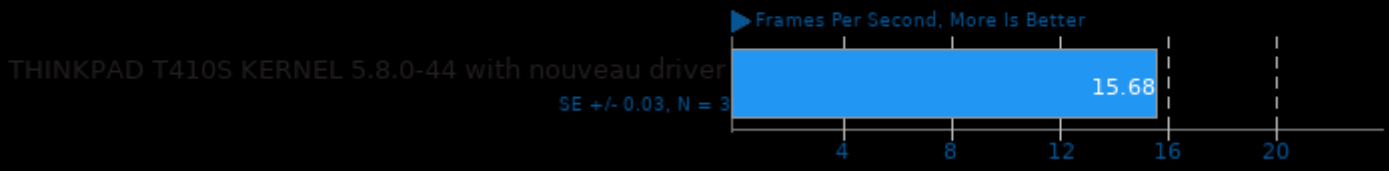
Tesseract 2014-05-12

Resolution: 800 x 600



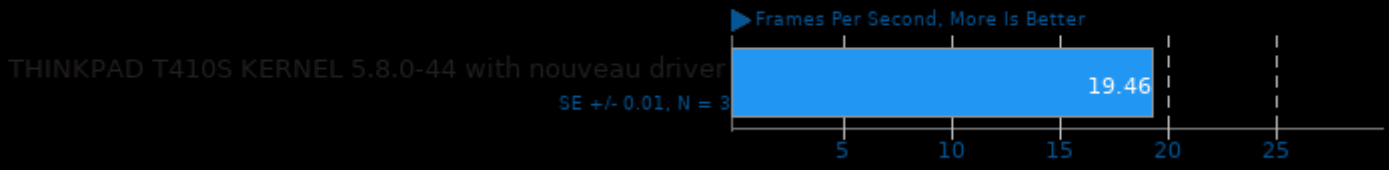
Tesseract 2014-05-12

Resolution: 1440 x 900



Tesseract 2014-05-12

Resolution: 1024 x 768



SciMark 2.0

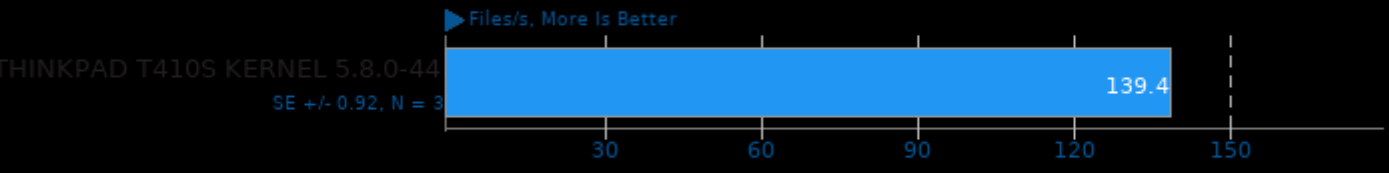
Computational Test: Composite



1. (CC) gcc options: -lm

FS-Mark 3.3

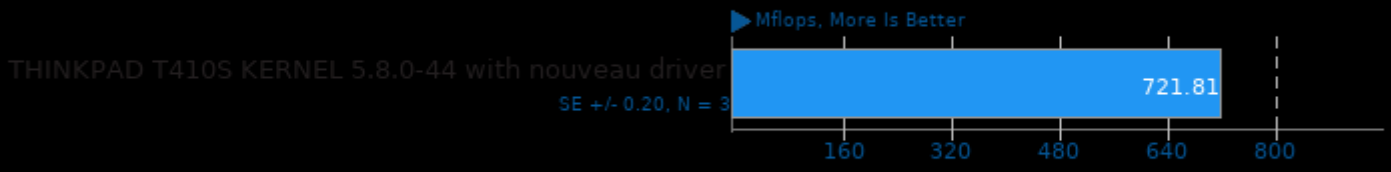
Test: 1000 Files, 1MB Size



1. (CC) gcc options: -static

SciMark 2.0

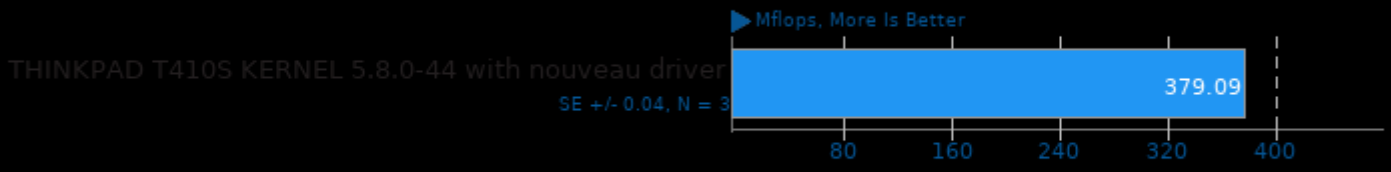
Computational Test: Jacobi Successive Over-Relaxation



1. (CC) gcc options: -lm

SciMark 2.0

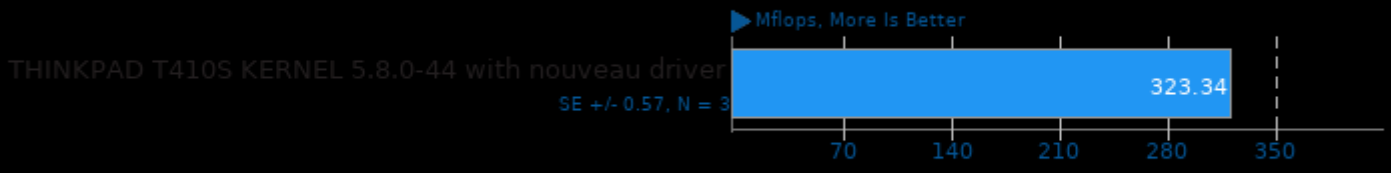
Computational Test: Dense LU Matrix Factorization



1. (CC) gcc options: -lm

SciMark 2.0

Computational Test: Sparse Matrix Multiply



1. (CC) gcc options: -lm

SciMark 2.0

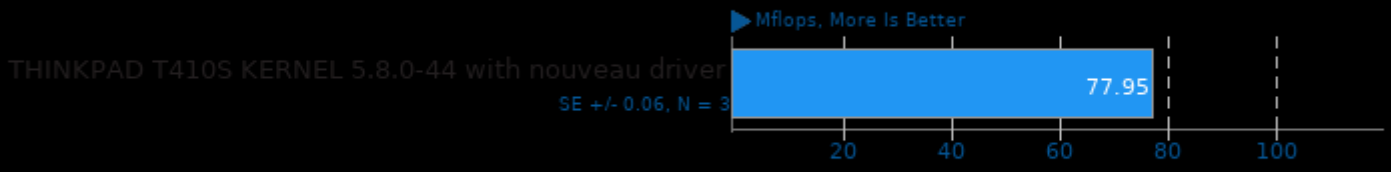
Computational Test: Fast Fourier Transform



1. (CC) gcc options: -lm

SciMark 2.0

Computational Test: Monte Carlo



1. (CC) gcc options: -lm

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