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AMD Ryzen 5 3600 6-Core testing with a MSI B450 TOMAHAWK MAX (MS-7C02) v1.0 (3.20 BIOS) and MSI NVIDIA GeForce GTX 780 3072MB on Ubuntu 19.10 via the Phoronix Test Suite.

Test Systems:

i5-2400-smallpt

Processor: Intel Core i5-2400 @ 3.40GHz (4 Cores), Motherboard: Gigabyte H67A-UD3H-B3, Chipset: Intel 2nd Generation Core Family DRAM, Memory: 16384MB, Disk: 2000GB Backup+ Desk + 63GB SanDisk SDSSDP06 + 250GB Samsung SSD 860 + 8002GB Seagate ST8000DM004-2CX1 + 4001GB Seagate ST4000DM004-2CV1 + 500GB Maxtor 7H500F0, Graphics: AMD CYPRESS (DRM 2.50.0 / 4.15.0-51-generic LLVM 7.0.0) 1024MB, Audio: Realtek ALC889, Network: Realtek RTL8111/8168/8411

OS: Ubuntu 18.04, Kernel: 4.15.0-51-generic (x86_64), Desktop: GNOME Shell 3.28.4, OpenGL: 4.3 Mesa 18.2.8, File-System: ext4, Screen Resolution: 5520x1080

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++ --enable-libmpx --enable-libstdcxx-debug --enable-libstdcxx-time=yes

--enable-multiarch --enable-multilib --enable-nls --enable-objc-gc=auto --enable-offload-targets=nvptx-none --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 --with-tune=generic --without-cuda-driver -v
Processor Notes: Scaling Governor: intel_pstate powersave

i7-3770s-smallpt

Processor: Intel Core i7-3770S @ 3.90GHz (8 Cores), Motherboard: Gigabyte H67A-UD3H-B3, Chipset: Intel Xeon E3-1200 v2/3rd, Memory: 16384MB, Disk: 63GB SanDisk SDSSDP06 + 250GB Samsung SSD 860 + 8002GB Seagate ST8000DM004-2CX1 + 4001GB Seagate ST4000DM004-2CV1 + 500GB Maxtor 7H500F0, Graphics: AMD CYPRESS (DRM 2.50.0 / 4.15.0-52-generic LLVM 7.0.0) 1024MB, Audio: Realtek ALC889, Network: Realtek RTL8111/8168/8411

OS: Ubuntu 18.04, Kernel: 4.15.0-52-generic (x86_64), Desktop: GNOME Shell 3.28.4, OpenGL: 4.3 Mesa 18.2.8, File-System: ext4, Screen Resolution: 5520x1080

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++ --enable-libmpx --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-multilib --enable-nls --enable-objc-gc=auto --enable-offload-targets=nvptx-none --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 --with-tune=generic --without-cuda-driver -v
Processor Notes: Scaling Governor: intel_pstate powersave

ryzen3600-smallpt

Processor: AMD Ryzen 5 3600 6-Core @ 3.60GHz (12 Cores), Motherboard: MSI B450 TOMAHAWK (MS-7C02) v1.0, Chipset: AMD Device 1480, Memory: 32768MB, Disk: 250GB Samsung SSD 860 + 8002GB Seagate ST8000DM004-2CX1 + 500GB Maxtor 7H500F0 + 4001GB Seagate ST4000DM004-2CV1, Graphics: Sapphire AMD Radeon RX 470 (POLARIS10 DRM 3.23.0 4.15.0-54-generic LLVM 8.0.0) 4096MB, Audio: AMD Ellesmere, Network: Realtek RTL8111/8168/8411

OS: Ubuntu 18.04, Kernel: 4.15.0-54-generic (x86_64), Desktop: GNOME Shell 3.28.4, OpenGL: 4.5 Mesa 19.0.2, File-System: ext4, Screen Resolution: 5520x1080

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++ --enable-libmpx --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-multilib --enable-nls --enable-objc-gc=auto --enable-offload-targets=nvptx-none --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 --with-tune=generic --without-cuda-driver -v
Processor Notes: Scaling Governor: acpi-cpufreq ondemand

ryzen3600-3200viperram

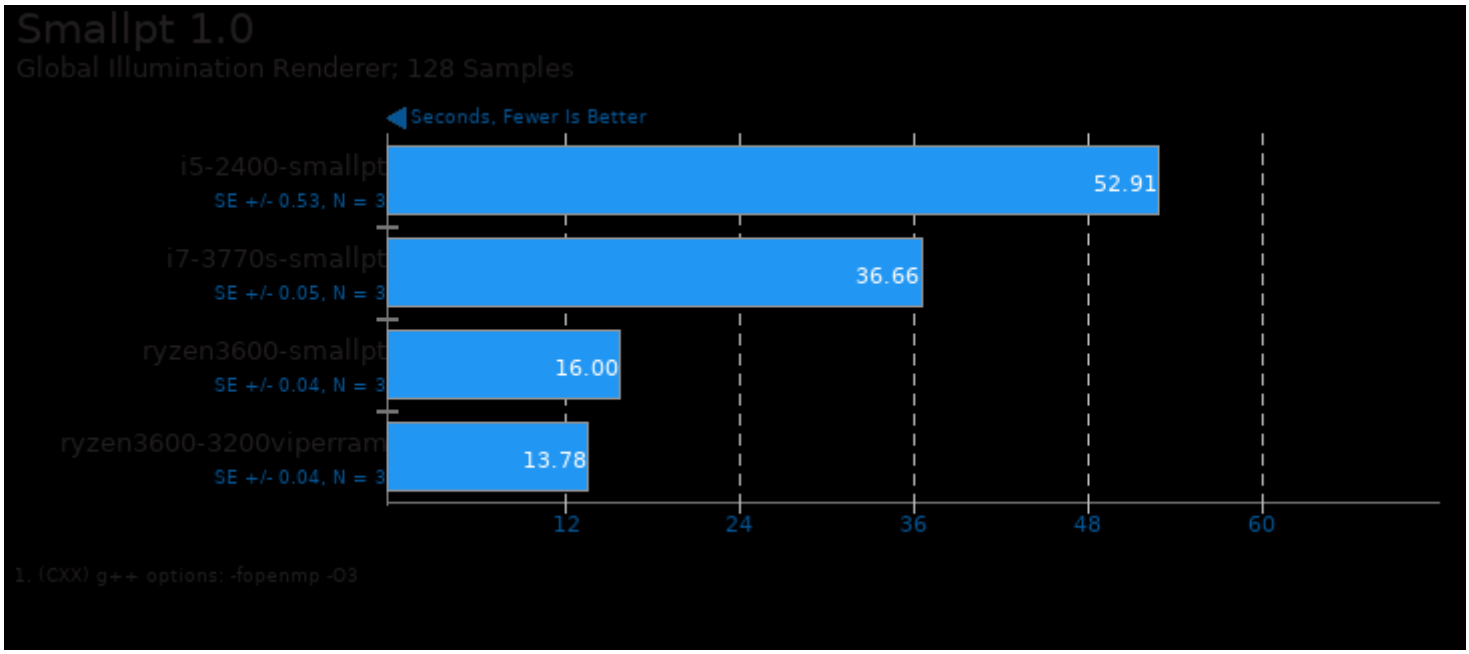
Processor: AMD Ryzen 5 3600 6-Core @ 3.60GHz (6 Cores / 12 Threads), Motherboard: MSI B450 TOMAHAWK MAX (MS-7C02) v1.0 (3.20 BIOS), Chipset: AMD Starship/Matisse, Memory: 16384MB, Disk: 2 x 3001GB Seagate ST3000DM008-2DM1 + 256GB Viper M.2 VPN100, Graphics: MSI NVIDIA GeForce GTX 780 3072MB (901/3004MHz), Audio: NVIDIA GK110 HDMI Audio, Monitor: DELL U2515H, Network: Realtek RTL8111/8168/8411

OS: Ubuntu 19.10, Kernel: 5.3.0-19-generic (x86_64), Desktop: Budgie, Display Driver: NVIDIA 435.21, OpenGL: 4.6.0 NVIDIA 435.21, Compiler: GCC 9.2.1 20191008, File-System: ext4, Screen Resolution: 2560x1440

Compiler Notes: --build=x86_64-linux-gnu --disable-vtable-verify --disable-werror --enable-bootstrap --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-offload-targets=nvptx-none,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
Security Notes: usercopy/swapgs barriers and __user pointer sanitization + Full AMD retpoline IBPB: conditional STIBP: always-on RSB filling Protection

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	i5-2400-smallpt	i7-3770s-smallpt	ryzen3600-smallpt	ryzen3600-3200viperram
Smallpt - G.I.R.1.S (sec)	**52.91**	36.66	16.00	**13.78**
Normalized	26.04%	37.59%	86.13%	100%
Standard Deviation	1.7%	0.2%	0.4%	0.4%



This file was automatically generated via the Phoronix Test Suite benchmarking software on Friday, 29 March 2024 08:40.