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ryzen2xxx

i7-7700K on 17.10.1 with latest updates, Apacer Z280 256GB, 16GB DDR4-3200 at stock speeds

Test Systems:

E5-2680 SAN

E5-2680

E-5-2680-SAN

Processor: 4 x Intel Xeon E5-2680 0 @ 2.70GHz (4 Cores), Motherboard: Intel 440BX, Chipset: Intel 440BX/ZX/DX, Memory: 1 x 16384 MB DRAM, Disk: 32GB Virtual disk, Graphics: VMware SVGA II, Network: Intel 82545EM Gigabit

OS: Ubuntu 17.10, Kernel: 4.13.0-16-generic (x86_64), File-System: ext4, Screen Resolution: 2048x1600, System Layer: VMware

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
Disk Notes: CFQ / data=ordered,errors=remount-ro,relatime,rw
System Notes: Disk Scheduler: CFQ.

Computational 1

Multicore/CPU

John-the-Ripper

Linux System

Multi Suite

Processor: AMD Ryzen 5 1500X @ 3.50GHz (8 Cores), Motherboard: MSI B350 PC MATE (MS-7A34) v2.0, Chipset: AMD Device 1450, Memory: 16384MB, Disk: 1000GB Western Digital WD1005FBYZ-0 + 1000GB Western Digital WD10EZEX-00W + 2000GB Silicon-Power, Graphics: NV106 1024MB, Audio: NVIDIA GK208 HDMI/DP, Monitor: SyncMaster, Network: Realtek RTL8111/8168/8411

OS: Ubuntu 17.10, Kernel: 4.13.0-21-generic (x86_64), Desktop: Xfce 4.12, Display Driver: modesetting 1.19.5, OpenGL: 4.3 Mesa 17.2.8, File-System: ext4, Screen Resolution: 1920x1200

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
Disk Notes: CFQ / data=ordered,discard,errors=remount-ro,noatime,rw
Processor Notes: Scaling Governor: acpi-cpufreq ondemand
System Notes: Disk Scheduler: CFQ.

blake2

desktop-graphics

cpu

Processor: Intel Core i5 430M @ 2.26GHz (4 Cores), Motherboard: Dell 0G2R51, Chipset: Intel Core DRAM, Memory: 2 x 4096 MB DDR3-1600MT/s, Disk: 240GB SanDisk SDSSDHII, Graphics: Intel Core IGP, Audio: IDT 92HD81B1X5, Network: Realtek RTL8111/8168/8411 + Broadcom Limited BCM43224 802.11a/b/g/n

OS: Ubuntu 17.10, Kernel: 4.13.0-16-generic (x86_64), Desktop: GNOME Shell 3.26.1, Display Server: X Server 1.19.5, Display Driver: intel 2.99.917, Compiler: GCC 7.2.0, File-System: ext4, Screen Resolution: 1366x768

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
Graphics Notes: SNA

Intel Core i5-8400 - Intel Device 3e92 1024MB - ASUS

Intel Core i5-8400

Processor: Intel Core i5-8400 @ 4.00GHz (6 Cores), Motherboard: ASUS PRIME Z370-A, Chipset: Intel Device 3ec2, Memory: 15360MB, Disk: 128GB Samsung SSD 840 + 500GB Samsung SSD 850, Graphics: Intel Device 3e92 1024MB, Audio: Realtek ALC1220, Monitor: S27F350, Network: Intel Connection

OS: Ubuntu 17.10, Kernel: 4.13.0-16-generic (x86_64), Desktop: GNOME Shell 3.26.1, Display Driver: modesetting 1.19.5, OpenGL: 4.5 Mesa 17.2.2, File-System: ext4, Screen Resolution: 1920x1080

Kernel Notes: i915.alpha_support=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++ --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

7700K_5GHz

Processor: Intel Core i7-7700K @ 5.00GHz (8 Cores), Motherboard: Gigabyte Z170X-Gaming 7, Chipset: Intel Device 591f, Memory: 16384MB, Disk: 220GB, Graphics: XFX AMD Radeon HD 6450/7450/8450 / R5 230 OEM 1024MB, Audio: Creative CA0132, Network: Intel Connection

OS: Ubuntu 17.10, Kernel: 4.13.0-38-generic (x86_64), Desktop: GNOME Shell 3.26.2, Compiler: Clang 4.0.1-6 + LLVM 4.0.1, File-System: ext4, Screen Resolution: 1920x1080

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

7700K_Stock

Processor: Intel Core i7-7700K @ 4.50GHz (8 Cores), Motherboard: Gigabyte Z170X-Gaming 7, Chipset: Intel Device 591f, Memory: 16384MB, Disk: 220GB, Graphics: XFX AMD Radeon HD 6450/7450/8450 / R5 230 OEM 1024MB, Audio: Creative CA0132, Network: Intel Connection

OS: Ubuntu 17.10, Kernel: 4.13.0-38-generic (x86_64), Desktop: GNOME Shell 3.26.2, Compiler: Clang 4.0.1-6 + LLVM 4.0.1, File-System: ext4, Screen Resolution: 1920x1080

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

IntelR CoreTM i7-6700HQ CPU @ 2.60GHz

Processor: Intel Core i7-6700HQ @ 3.50GHz (8 Cores), Motherboard: LENOVO 20EN0005MH, Chipset: Intel Skylake /DRAM, Memory: 16384MB, Disk: 256GB SAMSUNG MZNLN256, Graphics: NVIDIA Quadro M1000M 2048MB (797/800MHz), Audio: Realtek ALC298, Network: Intel Connection + Intel Wireless 8260

OS: Ubuntu 17.10, Kernel: 4.13.0-38-generic (x86_64), Desktop: KDE Frameworks 5, Display Driver: NVIDIA 396.18, File-System: ext4 (ecryptfs), Screen Resolution: 5760x1080

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

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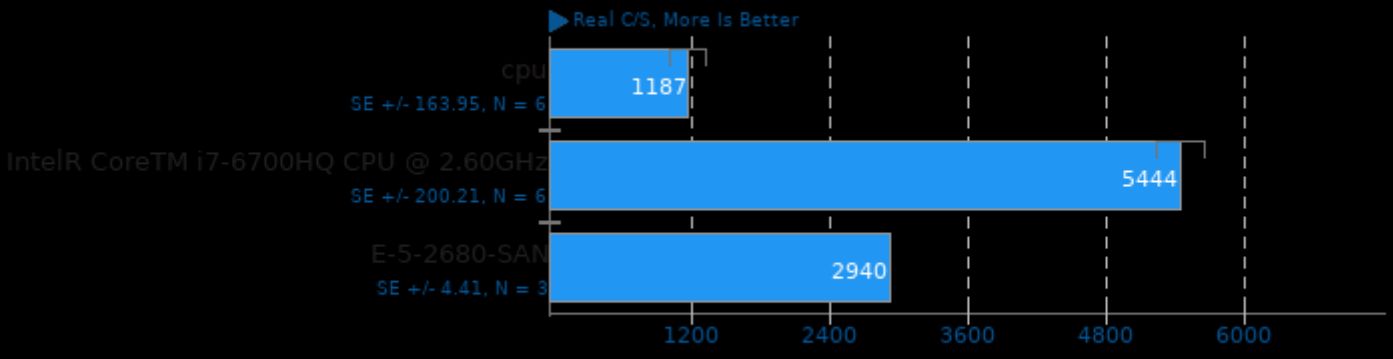
--host=x86_64-linux-gnu --program-prefix=x86_64-linux-gnu- --target=x86_64-linux-gnu --with-abi=m64 --with-arch-32=i686 --with-default-libstdcxx-abi=new --with-gcc-major-version-only --with-multilib-list=m32,m64,mx32 --with-target-system-zlib --with-tune=generic --without-cuda-driver -v
Processor Notes: Scaling Governor: intel_pstate powersave

	E5-2680 SAN	E5-2680	E-5-2680-SAN	Computational 1	Multi core/CPU	John-the-Ripper	Linux System	Multi Suite	blake2	desktop-graphics	cpu	Intel Core i5-8400 - Intel Device 3e92 1024MB - ASUS	Intel Core i5-8400	7700K_5GHz	7700K_Stock	IntelR Core TM i7-6700HQ CPU @ 2.60GHz
John The Ripper - Blowfish (Real C/S)			2940								**1187**					**5444**
Normalized			54%								21.8%					100%
Standard Deviation			0.3%								33.8%					9%
John The Ripper - Blowfish (Real C/S)						6190		5892						8096	**8629**	**5567**
Normalized						71.73%		68.28%						93.82%	100%	64.52%
Standard Deviation						1.3%		0.8%						2.3%	0%	1.5%
John The Ripper - Traditional DES (Real C/S)						**22989667**		21824333								**20934667**
Normalized						100%		94.93%								91.06%
Standard Deviation						0.9%		0.3%								1.9%
John The Ripper - MD5 (Real C/S)						**204772**		194387								**123162**
Normalized						100%		94.93%								60.15%
Standard Deviation						0.6%		0.9%								22.9%
John The Ripper - MD5 (Real C/S)													**112592**			**61099**
Normalized													99.48%			53.98%

Standard Deviation	0.5%	16.1%

John The Ripper 1.8.0

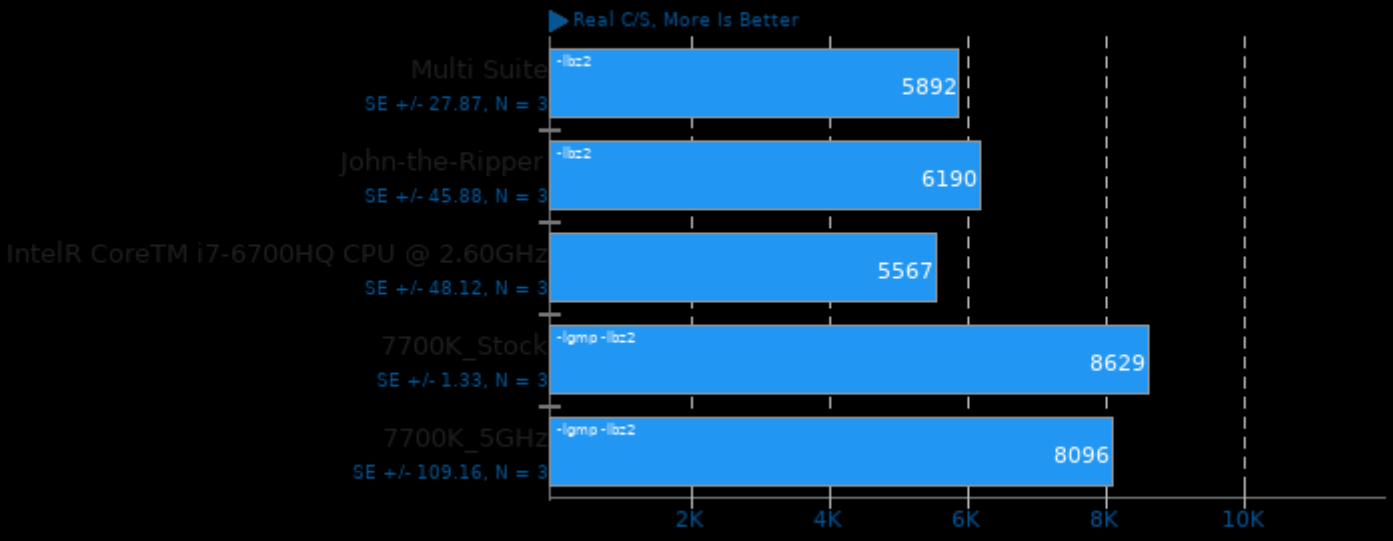
Blowfish



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

John The Ripper 1.8.0-jumbo-1

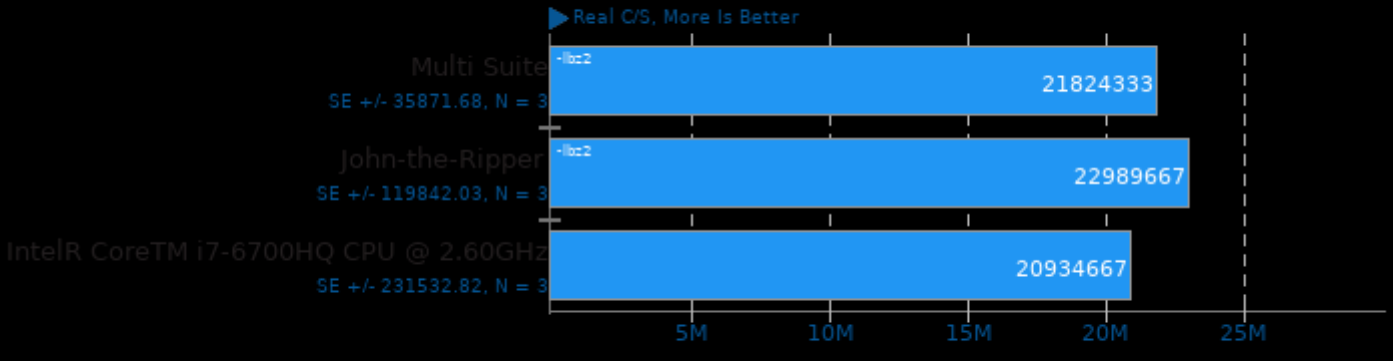
Test: Blowfish



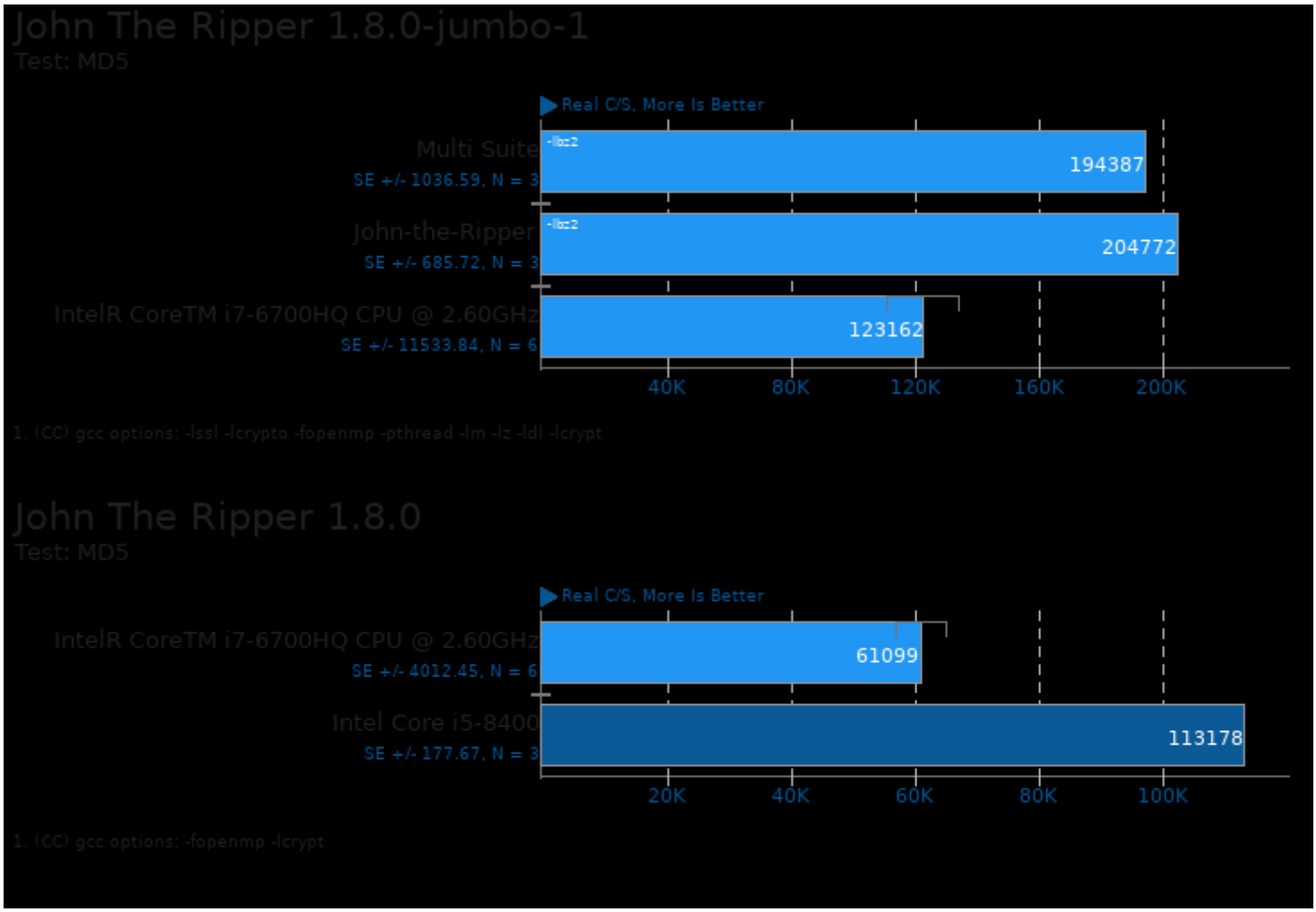
1. (CC) gcc options: -lssl -lcrypto -fopenmp -pthread -lm -lz -ldl -lcrypt

John The Ripper 1.8.0-jumbo-1

Test: Traditional DES



1. (CC) gcc options: -lssl -lcrypto -fopenmp -pthread -lm -lz -ldl -lcrypt



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