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AMD Threadripper Linux Memory Tests

Intel Kaby Lake 7700K 4-Core testing with different memory configurations. MB ASUS STRIX Z270G, 2x8GB 2400MHZ RAM

Automated Executive Summary

4 x 4GB DDR4-3600MHz had the most wins, coming in first place for 75% of the tests.

Based on the geometric mean of all complete results, the fastest (4 x 4GB DDR4-3600MHz) was 1.619x the speed of the slowest (RAM-2x8GB-2400-Z270G). 4 x 8GB DDR4-3200MHz was 0.968x the speed of 4 x 4GB DDR4-3600MHz, 4 x 4GB DDR4-3200MHz was 0.954x the speed of 4 x 8GB DDR4-3200MHz, 4 x 4GB DDR4-3066MHz was 0.972x the speed of 4 x 4GB DDR4-3200MHz, 4 x 4GB DDR4-2800MHz was 0.956x the speed of 4 x 4GB DDR4-3066MHz, 4 x 4GB DDR4-2133MHz was 0.948x the speed of 4 x 4GB DDR4-2800MHz, 2 x 8GB DDR4-3200MHz was 0.854x the speed of 4 x 4GB DDR4-2133MHz, RAM-2x8GB-2400-Z270G was 0.89x the speed of 2 x 8GB DDR4-3200MHz.

The results with the greatest spread from best to worst included:

PostgreSQL pgbench (Scaling: Buffer Test - Test: Normal Load - Mode: Read Write) at 3.346x
Timed LLVM Compilation (Time To Compile) at 2.766x
7-Zip Compression (Compress Speed Test) at 2.468x
Timed Linux Kernel Compilation (Time To Compile) at 2.442x
Stream (Type: Add) at 2.3x

Stream (Type: Triad) at 2.29x
Stream (Type: Scale) at 2.259x
Stream (Type: Copy) at 2.202x
Darktable (Test: Boat - Acceleration: CPU-only) at 1.989x
Open Porous Media Git (OPM Benchmark: Flow MPI Norne - Threads: 16) at 1.864x.

Test Systems:

2 x 8GB DDR4-3200MHz

Processor: AMD Ryzen Threadripper 1950X 16-Core @ 3.40GHz (16 Cores / 32 Threads), Motherboard: Gigabyte X399 AORUS Gaming 7, Chipset: AMD Device 1450, Memory: 2 x 8192 MB DDR4-3200MHz F4-3200C14-8GTZR, Disk: 120GB Force MP500, Graphics: MSI AMD Radeon R7 370 / R9 270/370 OEM 4096MB (300/150MHz), Audio: Realtek ALC1220, Monitor: VE228, Network: Qualcomm Atheros Device e0b1 + Intel Device 24fd

OS: Debian 9.2, Kernel: 4.14.0-999-generic (x86_64) 20171120, Desktop: GNOME Shell 3.22.3, Display Driver: modesetting 1.19.2, Compiler: GCC 6.3.0 20170516, File-System: ext4, Screen Resolution: 1920x1080

Compiler Notes: --build=x86_64-linux-gnu --disable-browser-plugin --disable-vtable-verify --enable-checking=release --enable-clocale=gnu --enable-default-pie --enable-gnu-unique-object --enable-gtk-cairo --enable-java-awt=gtk --enable-java-home --enable-languages=c,ada,c++,java,go,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-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-arch-directory=amd64 --with-default-libstdcxx-abi=new --with-multilib-list=m32,m64,mx32 --with-target-system-zlib --with-tune=generic -v
Processor Notes: Scaling Governor: acpi-cpufreq performance

4 x 8GB DDR4-3200MHz

Processor: AMD Ryzen Threadripper 1950X 16-Core @ 3.40GHz (16 Cores / 32 Threads), Motherboard: Gigabyte X399 AORUS Gaming 7, Chipset: AMD Device 1450, Memory: 4 x 8192 MB DDR4-3200MHz, Disk: 120GB Force MP500, Graphics: MSI AMD Radeon R7 370 / R9 270/370 OEM 4096MB (300/150MHz), Audio: Realtek ALC1220, Monitor: VE228, Network: Qualcomm Atheros Device e0b1 + Intel Device 24fd

OS: Debian 9.2, Kernel: 4.14.0-999-generic (x86_64) 20171120, Desktop: GNOME Shell 3.22.3, Display Driver: modesetting 1.19.2, Compiler: GCC 6.3.0 20170516, File-System: ext4, Screen Resolution: 1920x1080

Compiler Notes: --build=x86_64-linux-gnu --disable-browser-plugin --disable-vtable-verify --enable-checking=release --enable-clocale=gnu --enable-default-pie --enable-gnu-unique-object --enable-gtk-cairo --enable-java-awt=gtk --enable-java-home --enable-languages=c,ada,c++,java,go,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-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-arch-directory=amd64 --with-default-libstdcxx-abi=new --with-multilib-list=m32,m64,mx32 --with-target-system-zlib --with-tune=generic -v
Processor Notes: Scaling Governor: acpi-cpufreq performance

4 x 4GB DDR4-2133MHz

Processor: AMD Ryzen Threadripper 1950X 16-Core @ 3.40GHz (16 Cores / 32 Threads), Motherboard: Gigabyte X399 AORUS Gaming 7, Chipset: AMD Device 1450, Memory: 4 x 4096 MB DDR4-2133MHz F4-3600C17-4GVK, Disk: 120GB Force MP500, Graphics: MSI AMD Radeon R7 370 / R9 270/370 OEM 4096MB (300/150MHz), Audio: Realtek ALC1220, Monitor: VE228, Network: Qualcomm Atheros Device e0b1 + Intel Device 24fd

OS: Debian 9.2, Kernel: 4.14.0-999-generic (x86_64) 20171120, Desktop: GNOME Shell 3.22.3, Display Driver:

modesetting 1.19.2, Compiler: GCC 6.3.0 20170516, File-System: ext4, Screen Resolution: 1920x1080

Compiler Notes: --build=x86_64-linux-gnu --disable-browser-plugin --disable-vtable-verify --enable-checking=release --enable-clocale=gnu --enable-default-pie --enable-gnu-unique-object --enable-gtk-cairo --enable-java-awt=gtk --enable-java-home --enable-languages=c,ada,c++,java,go,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-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-arch-directory=amd64 --with-default-libstdcxx-abi=new --with-multilib-list=m32,m64,mx32 --with-target-system-zlib --with-tune=generic -v
Processor Notes: Scaling Governor: acpi-cpufreq performance

4 x 4GB DDR4-2800MHz

Processor: AMD Ryzen Threadripper 1950X 16-Core @ 3.40GHz (16 Cores / 32 Threads), Motherboard: Gigabyte X399 AORUS Gaming 7, Chipset: AMD Device 1450, Memory: 4 x 4096 MB DDR4-2800MHz F4-3600C17-4GVK, Disk: 120GB Force MP500, Graphics: MSI AMD Radeon R7 370 / R9 270/370 OEM 4096MB (300/150MHz), Audio: Realtek ALC1220, Monitor: VE228, Network: Qualcomm Atheros Device e0b1 + Intel Device 24fd

OS: Debian 9.2, Kernel: 4.14.0-999-generic (x86_64) 20171120, Desktop: GNOME Shell 3.22.3, Display Driver: modesetting 1.19.2, Compiler: GCC 6.3.0 20170516, File-System: ext4, Screen Resolution: 1920x1080

Compiler Notes: --build=x86_64-linux-gnu --disable-browser-plugin --disable-vtable-verify --enable-checking=release --enable-clocale=gnu --enable-default-pie --enable-gnu-unique-object --enable-gtk-cairo --enable-java-awt=gtk --enable-java-home --enable-languages=c,ada,c++,java,go,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-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-arch-directory=amd64 --with-default-libstdcxx-abi=new --with-multilib-list=m32,m64,mx32 --with-target-system-zlib --with-tune=generic -v
Processor Notes: Scaling Governor: acpi-cpufreq performance

4 x 4GB DDR4-3066MHz

Processor: AMD Ryzen Threadripper 1950X 16-Core @ 3.40GHz (16 Cores / 32 Threads), Motherboard: Gigabyte X399 AORUS Gaming 7, Chipset: AMD Device 1450, Memory: 4 x 4096 MB DDR4-3066MHz F4-3600C17-4GVK, Disk: 120GB Force MP500, Graphics: MSI AMD Radeon R7 370 / R9 270/370 OEM 4096MB (300/150MHz), Audio: Realtek ALC1220, Monitor: VE228, Network: Qualcomm Atheros Device e0b1 + Intel Device 24fd

OS: Debian 9.2, Kernel: 4.14.0-999-generic (x86_64) 20171120, Desktop: GNOME Shell 3.22.3, Display Driver: modesetting 1.19.2, Compiler: GCC 6.3.0 20170516, File-System: ext4, Screen Resolution: 1920x1080

Compiler Notes: --build=x86_64-linux-gnu --disable-browser-plugin --disable-vtable-verify --enable-checking=release --enable-clocale=gnu --enable-default-pie --enable-gnu-unique-object --enable-gtk-cairo --enable-java-awt=gtk --enable-java-home --enable-languages=c,ada,c++,java,go,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-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-arch-directory=amd64 --with-default-libstdcxx-abi=new --with-multilib-list=m32,m64,mx32 --with-target-system-zlib --with-tune=generic -v
Processor Notes: Scaling Governor: acpi-cpufreq performance

4 x 4GB DDR4-3200MHz

Processor: AMD Ryzen Threadripper 1950X 16-Core @ 3.40GHz (16 Cores / 32 Threads), Motherboard: Gigabyte X399 AORUS Gaming 7, Chipset: AMD Device 1450, Memory: 4 x 4096 MB DDR4-3200MHz F4-3600C17-4GVK, Disk: 120GB Force MP500, Graphics: MSI AMD Radeon R7 370 / R9 270/370 OEM 4096MB (300/150MHz), Audio: Realtek ALC1220, Monitor: VE228, Network: Qualcomm Atheros Device e0b1 + Intel Device 24fd

OS: Debian 9.2, Kernel: 4.14.0-999-generic (x86_64) 20171120, Desktop: GNOME Shell 3.22.3, Display Driver: modesetting 1.19.2, Compiler: GCC 6.3.0 20170516, File-System: ext4, Screen Resolution: 1920x1080

Compiler Notes: --build=x86_64-linux-gnu --disable-browser-plugin --disable-vtable-verify --enable-checking=release --enable-clocale=gnu --enable-default-pie --enable-gnu-unique-object --enable-gtk-cairo --enable-java-awt=gtk --enable-java-home --enable-languages=c,ada,c++,java,go,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-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-arch-directory=amd64 --with-default-libstdcxx-abi=new --with-multilib-list=m32,m64,mx32 --with-target-system-zlib --with-tune=generic -v
Processor Notes: Scaling Governor: acpi-cpufreq performance

AMD Threadripper Linux Memory Tests

4 x 4GB DDR4-3600MHz

Processor: AMD Ryzen Threadripper 1950X 16-Core @ 3.40GHz (16 Cores / 32 Threads), Motherboard: Gigabyte X399 AORUS Gaming 7, Chipset: AMD Device 1450, Memory: 4 x 4096 MB DDR4-3600MHz F4-3600C17-4GVK, Disk: 120GB Force MP500, Graphics: MSI AMD Radeon R7 370 / R9 270/370 OEM 4096MB (300/150MHz), Audio: Realtek ALC1220, Monitor: VE228, Network: Qualcomm Atheros Device e0b1 + Intel Device 24fd

OS: Debian 9.2, Kernel: 4.14.0-999-generic (x86_64) 20171120, Desktop: GNOME Shell 3.22.3, Display Driver: modesetting 1.19.2, Compiler: GCC 6.3.0 20170516, File-System: ext4, Screen Resolution: 1920x1080

Compiler Notes: --build=x86_64-linux-gnu --disable-browser-plugin --disable-vtable-verify --enable-checking=release --enable-clocale=gnu --enable-default-pie --enable-gnu-unique-object --enable-gtk-cairo --enable-java-awt=gtk --enable-java-home --enable-languages=c,ada,c++,java,go,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-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-arch-directory=amd64 --with-default-libstdcxx-abi=new --with-multilib-list=m32,m64,mx32 --with-target-system-zlib --with-tune=generic -v
Processor Notes: Scaling Governor: acpi-cpufreq performance

RAM-2x8GB-2400-Z270G

Processor: Intel Core i7-7700K @ 4.50GHz (8 Cores), Motherboard: ASUS STRIX Z270G GAMING, Chipset: Intel Intel Kaby Lake + Z270, Memory: 16384MB, Disk: 256GB TOSHIBA-RD400, Graphics: Intel HD 630 3072MB (1150MHz), Audio: Realtek ALC1220, Monitor: LG Ultra HD, Network: Intel Connection + Qualcomm Atheros QCA6174 802.11ac Wireless

OS: ManjaroLinux 17.1pre2, Kernel: 4.14.1-1-MANJARO (x86_64), Desktop: KDE Frameworks 5, Display Driver: modesetting 1.19.5, OpenGL: 4.5 Mesa 17.2.5, Compiler: Clang 5.0.0 + LLVM 5.0.0, File-System: ext4, Screen Resolution: 3840x2160

Compiler Notes: --disable-libssp --disable-libstdcxx-pch --disable-libunwind-exceptions --disable-werror --enable-__cxa_atexit --enable-checking=release --enable-clocale=gnu --enable-default-pie --enable-default-ssp --enable-gnu-indirect-function --enable-gnu-unique-object --enable-install-libiberty --enable-languages=c,c++,ada,fortran,go,lto,objc,obj-c++ --enable-libmpx --enable-lto --enable-multilib --enable-plugin --enable-shared --enable-threads=posix --mandir=/usr/share/man --with-isl --with-linker-hash-style=gnu
Processor Notes: Scaling Governor: intel_pstate powersave

	2 x 8GB DDR4-3200 MHz	4 x 8GB DDR4-3200 MHz	4 x 4GB DDR4-2133 MHz	4 x 4GB DDR4-2800 MHz	4 x 4GB DDR4-3066 MHz	4 x 4GB DDR4-3200 MHz	4 x 4GB DDR4-3600 MHz	RAM-2x8GB-2400-Z270G
RAMspeed SMP - Add - Integer (MB/s)	27507	32717	27558	31259	32978	33454	**37524**	**22475**
Normalized	73.3%	87.19%	73.44%	83.3%	87.89%	89.15%	100%	59.9%
RAMspeed SMP - Copy - Integer (MB/s)	24263	27836	23268	25836	26362	27357	**31452**	**20810**
Normalized	77.14%	88.5%	73.98%	82.14%	83.82%	86.98%	100%	66.16%
RAMspeed SMP - Scale - Integer (MB/s)	**18426**	24288	19157	20491	21911	23215	**25041**	20739
Normalized	73.58%	96.99%	76.5%	81.83%	87.5%	92.71%	100%	82.82%
RAMspeed SMP - Triad - Integer (MB/s)	23337	28369	22664	24783	26282	27487	**30828**	**21925**
Normalized	75.7%	92.02%	73.52%	80.39%	85.25%	89.16%	100%	71.12%

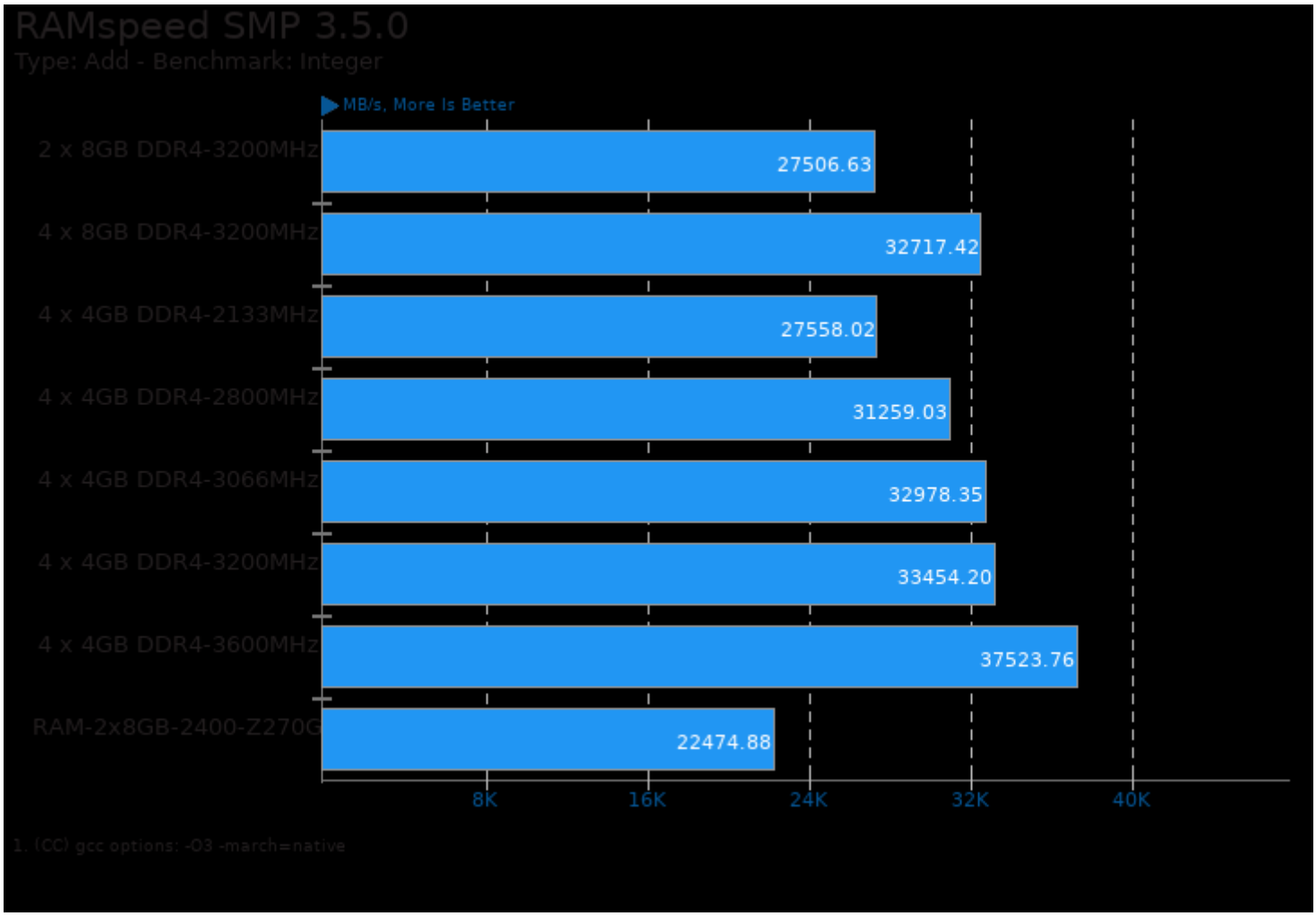
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RAMspeed SMP - Average - Integer	23487	28636	22535	24896	27397	27593	**31755**	**21585**
Normalized	73.96%	90.18%	70.97%	78.4%	86.28%	86.89%	100%	67.97%
Stream - Copy (MB/s)	29078	47985	50627	46446	48506	50478	**56911**	**25844**
Normalized	51.09%	84.31%	88.96%	81.61%	85.23%	88.7%	100%	45.41%
Standard Deviation	2.4%	0.5%	0.1%	0.3%	0.1%	0.1%	0.2%	0%
Stream - Scale (MB/s)	**17195**	32551	31634	31693	33353	34679	**38836**	19315
Normalized	44.28%	83.82%	81.46%	81.61%	85.88%	89.3%	100%	49.73%
Standard Deviation	0.7%	0.1%	0.1%	0.1%	0%	0.1%	0.1%	0%
Stream - Triad (MB/s)	**18692**	36223	34272	34788	36375	38069	**42799**	21523
Normalized	43.67%	84.64%	80.08%	81.28%	84.99%	88.95%	100%	50.29%
Standard Deviation	0.4%	0.1%	0%	0.1%	0.1%	0.1%	0.1%	0.1%
Stream - Add (MB/s)	**18617**	36294	34280	34828	36374	38086	**42813**	21534
Normalized	43.48%	84.77%	80.07%	81.35%	84.96%	88.96%	100%	50.3%
Standard Deviation	0.4%	0.3%	0.1%	0.1%	0.1%	0.1%	0.1%	0%
t-test1 - 1 (sec)	20.86	21.22	**23.22**	21.00	19.89	19.46	18.77	**15.11**
Normalized	72.44%	71.21%	65.07%	71.95%	75.97%	77.65%	80.5%	100%
Standard Deviation	0.2%	1.1%	0.5%	0.5%	1.3%	2.2%	0.5%	0.8%
t-test1 - 2 (sec)	7.17	7.55	**8.60**	7.86	7.59	7.45	7.11	**4.84**
Normalized	67.5%	64.11%	56.28%	61.58%	63.77%	64.97%	68.07%	100%
Standard Deviation	1.1%	0.4%	0.3%	0.1%	1.3%	1.1%	0.7%	0.2%
7-Zip Compression - C.S.T (MIPS)	45385	69687	60740	63813	66624	68148	**71936**	**29145**
Normalized	63.09%	96.87%	84.44%	88.71%	92.62%	94.73%	100%	40.52%
Standard Deviation	0%	0.6%	0.9%	0.4%	1.2%	0.5%	0.6%	0.6%
Timed Linux Kernel Compilation - Time To Compile (sec)	52.23	47.19	48.95	48.45	47.87	47.26	**46.65**	**113.93**
Normalized	89.32%	98.86%	95.3%	96.28%	97.45%	98.71%	100%	40.95%
Standard Deviation	2.1%	2.5%	2.7%	2.7%	2.8%	2.9%	2.4%	1.3%
Timed LLVM Compilation - Time To	394.08	**244.72**	387.76	335.51	317.07	313.76	312.51	**676.78**
Normalized	62.1%	100%	63.11%	72.94%	77.18%	78%	78.31%	36.16%
Standard Deviation	6.5%	1%	2%	3%	1.9%	1.3%	3.5%	1.4%
Darktable - Boat - CPU-only (sec)	**17.68**	10.07	10.24	10.31	10.00	9.60	**8.89**	
Normalized	50.28%	88.28%	86.82%	86.23%	88.9%	92.6%	100%	
Standard Deviation	0.1%	0.3%	0%	0.1%	0.2%	0.1%	0.5%	
Darktable - Masskrug - CPU-only (sec)	**8.49**	6.01	6.26	6.04	5.93	5.82	**5.63**	
Normalized	66.31%	93.68%	89.94%	93.21%	94.94%	96.74%	100%	
Standard Deviation	29.1%	0.3%	0.1%	0.5%	0.7%	0.5%	0.3%	
Darktable - Server Room - CPU-only (sec)	**5.56**	4.06	4.01	4.02	4.01	3.87	**3.77**	
Normalized	67.81%	92.86%	94.01%	93.78%	94.01%	97.42%	100%	
Standard Deviation	0.6%	0.3%	0.4%	0.4%	1.4%	0.1%	0.6%	
Open Porous Media Git - Flow MPI Norne - 16 (sec)	**340.91**	197.52	234.84	213.33	202.94	198.49	**182.94**	
Normalized	53.66%	92.62%	77.9%	85.75%	90.14%	92.17%	100%	
Standard Deviation	0.6%	0.2%	0.2%	1%	0.4%	1.8%		

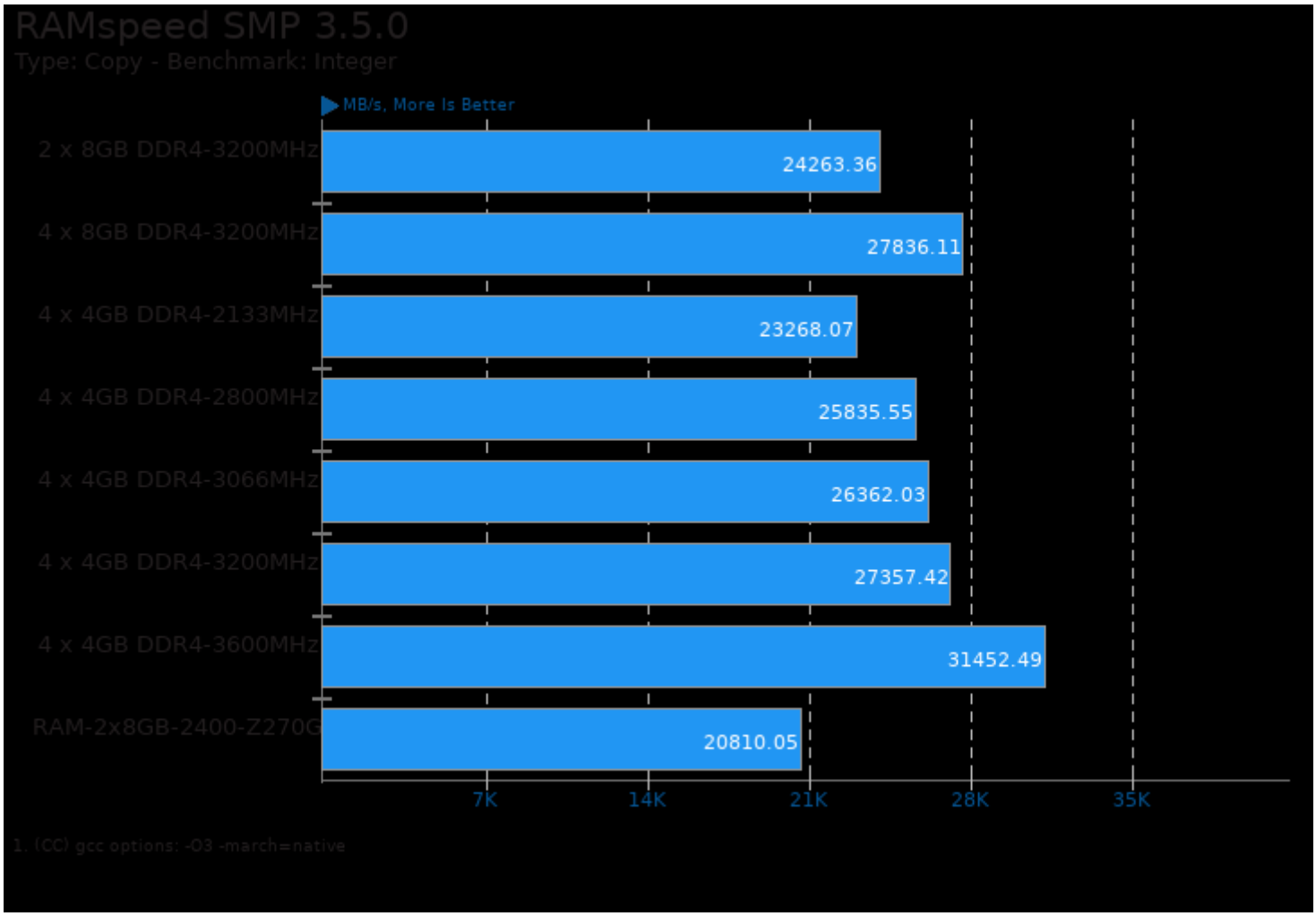
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Open Porous Media Git - Flow MPI Extra - 16	**1524**	822.98	1003	892.40	842.48	**818.41**		
Normalized	53.72%	99.44%	81.56%	91.71%	97.14%	100%		
Standard Deviation	0.5%	0.3%	1.8%	1.3%	0.3%	1.9%		
PostgreSQL pgbench - Buffer Test - Normal Load - Read Write	6384	**11647**	6246	6113	6087	6156	6079	**3481**
Normalized	54.82%	100%	53.62%	52.48%	52.26%	52.85%	52.2%	29.89%
Standard Deviation	1.5%	3%	2.3%	1.6%	2%	3.2%	1.6%	2.8%

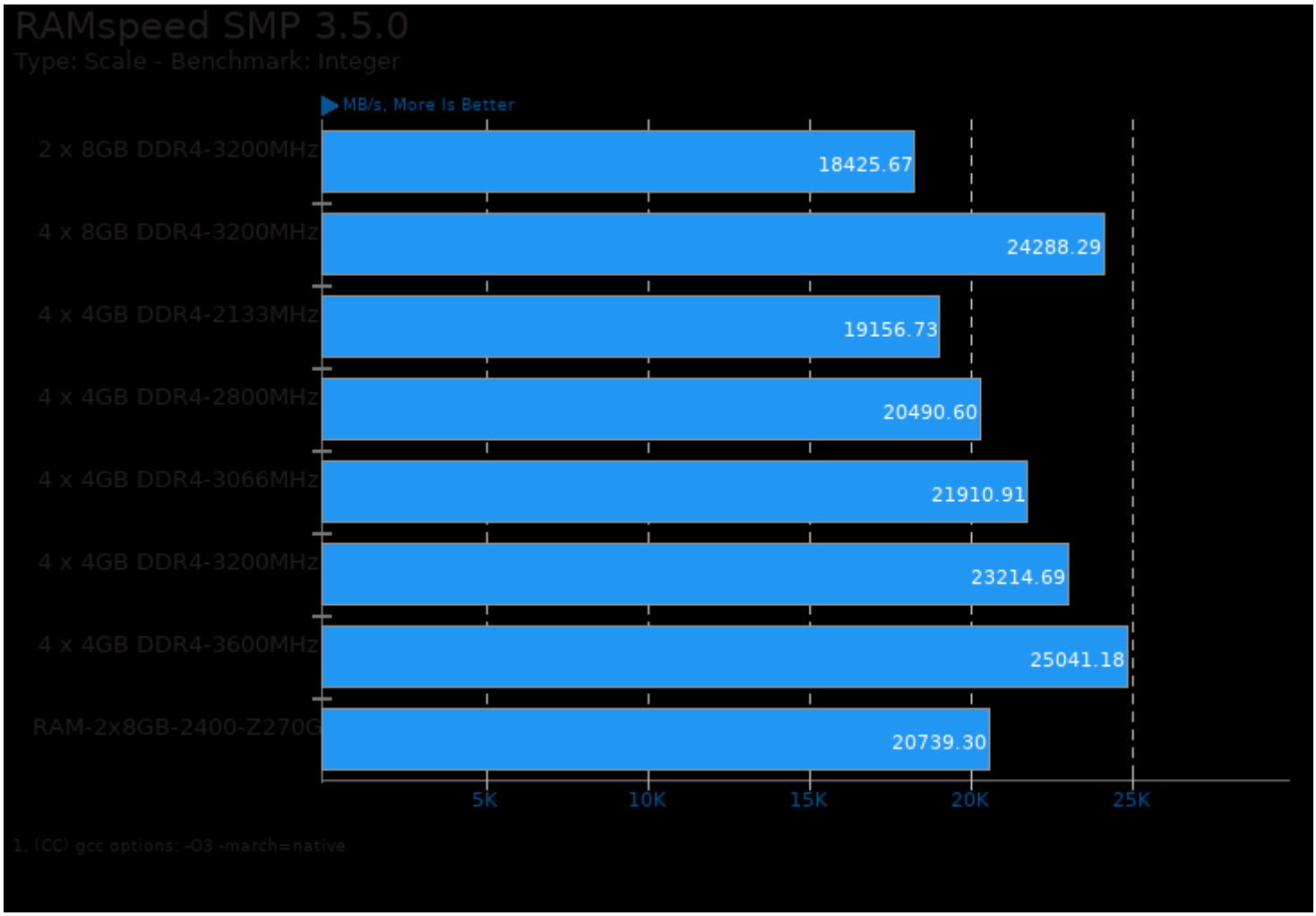
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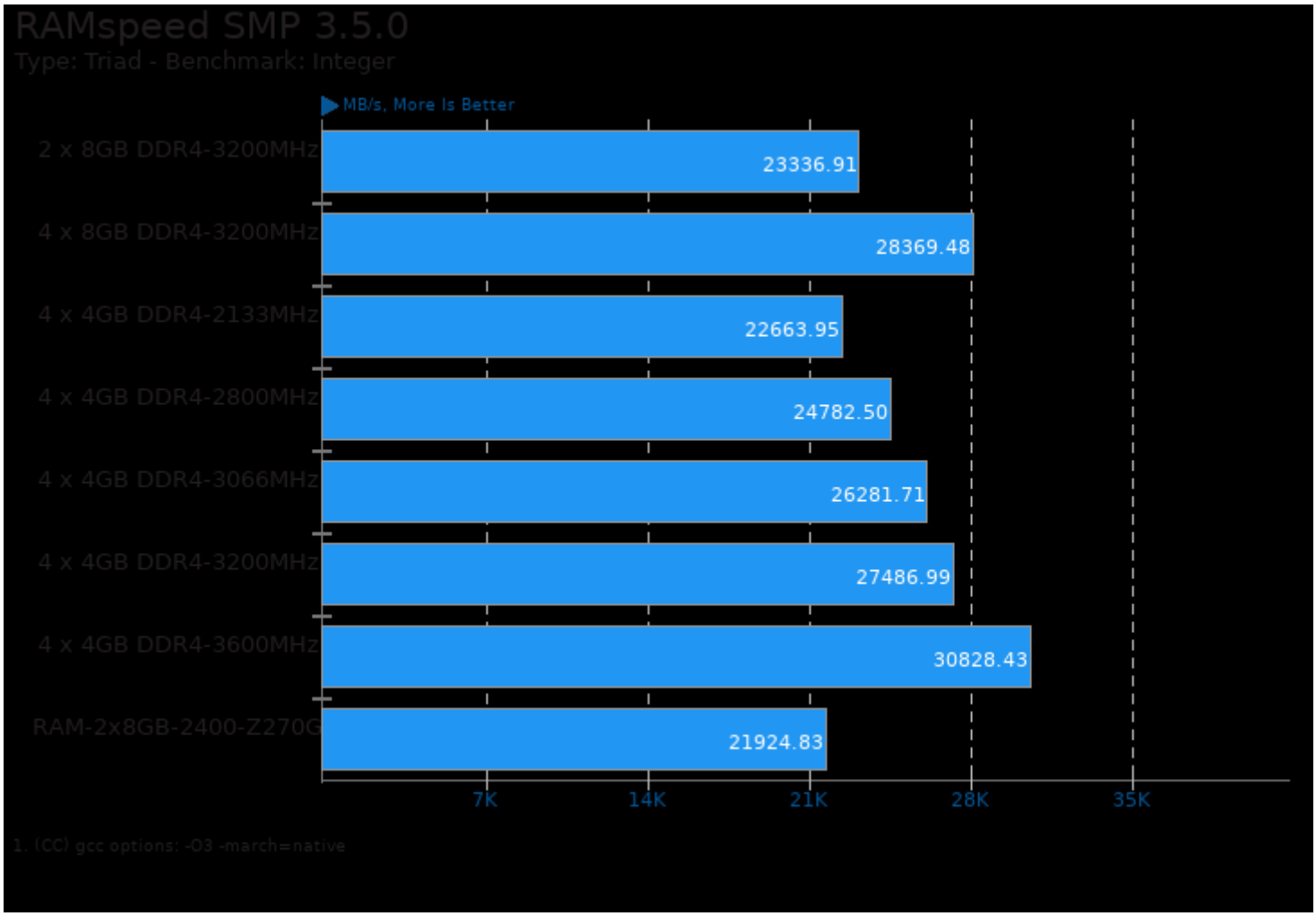
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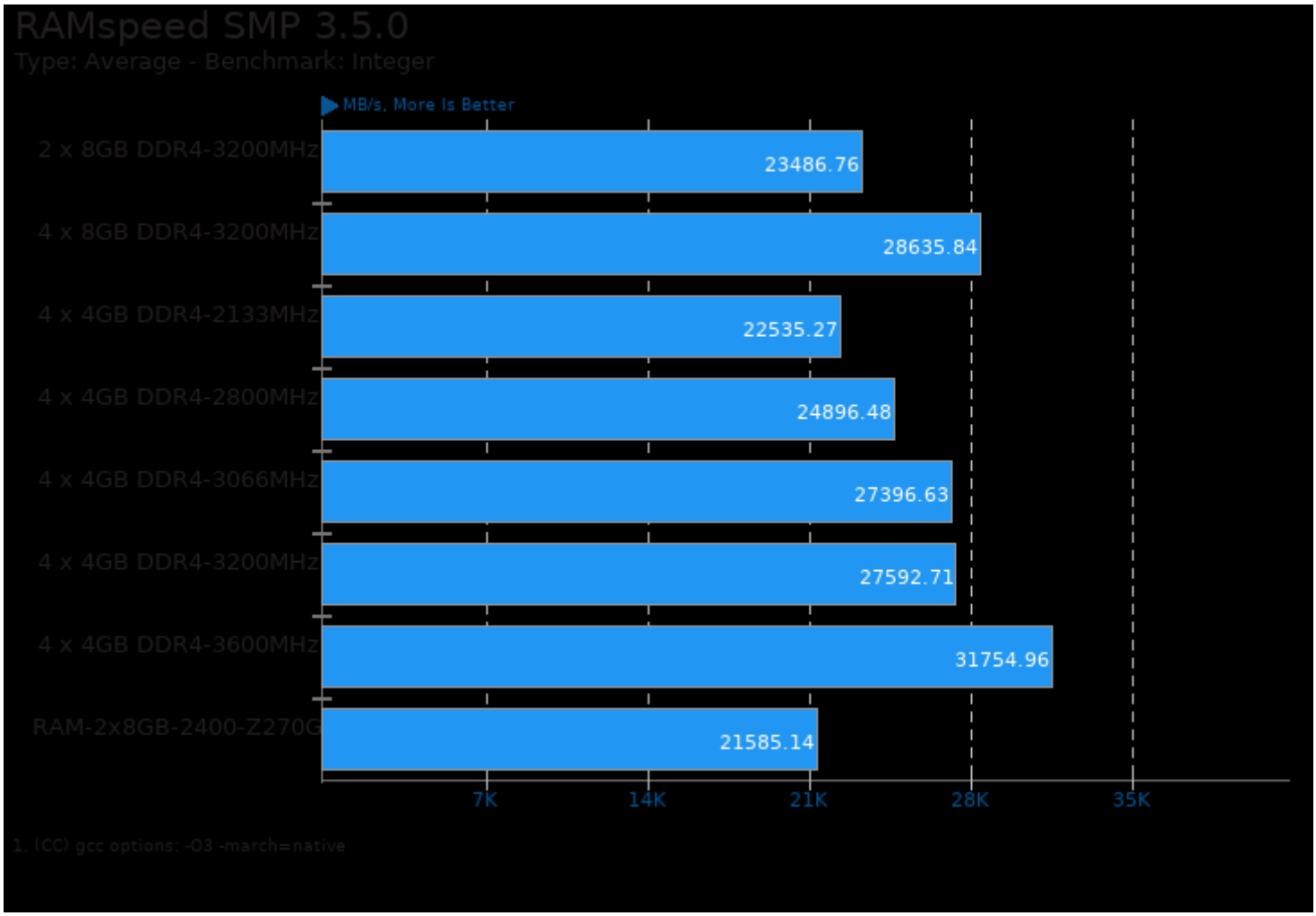
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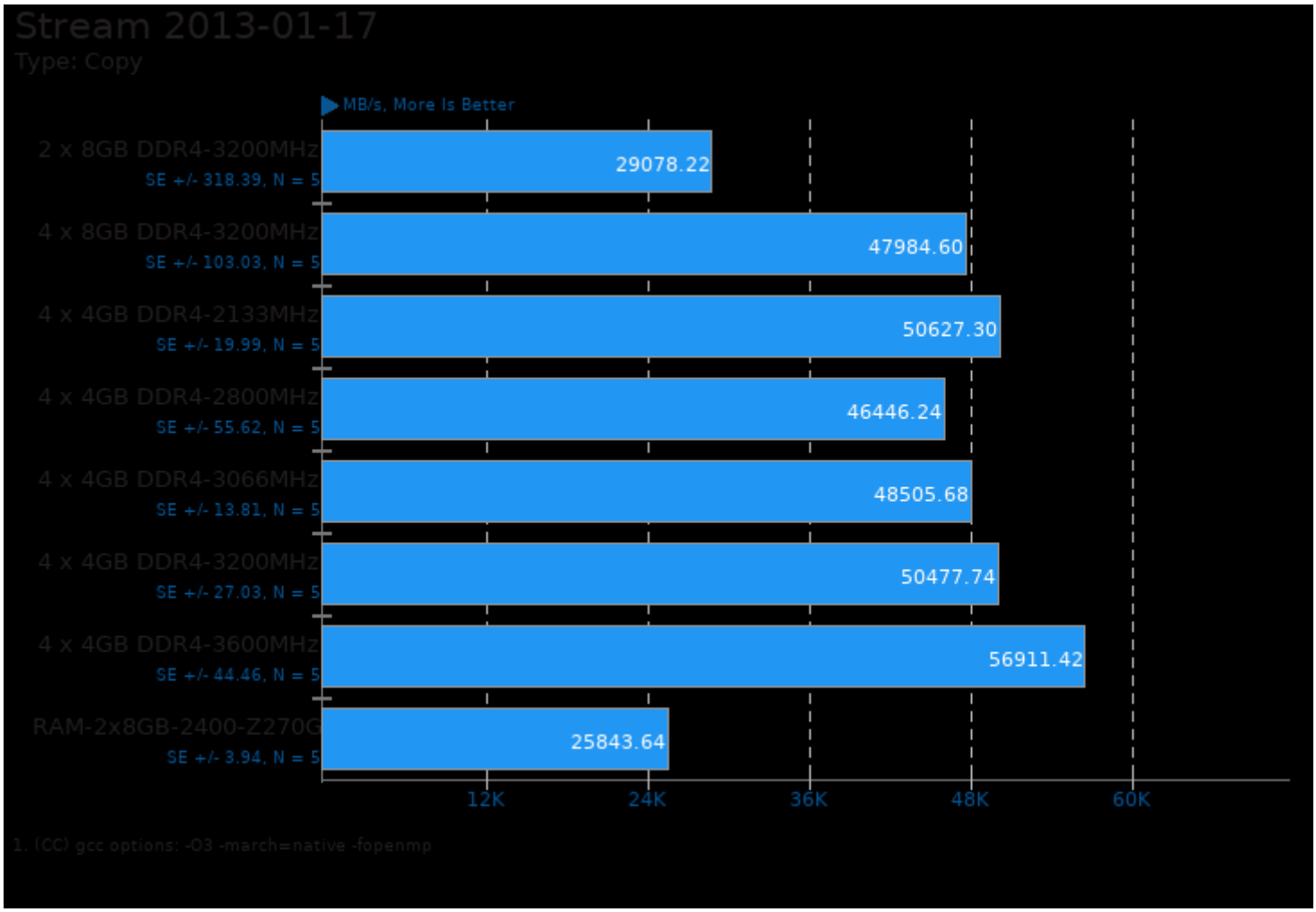
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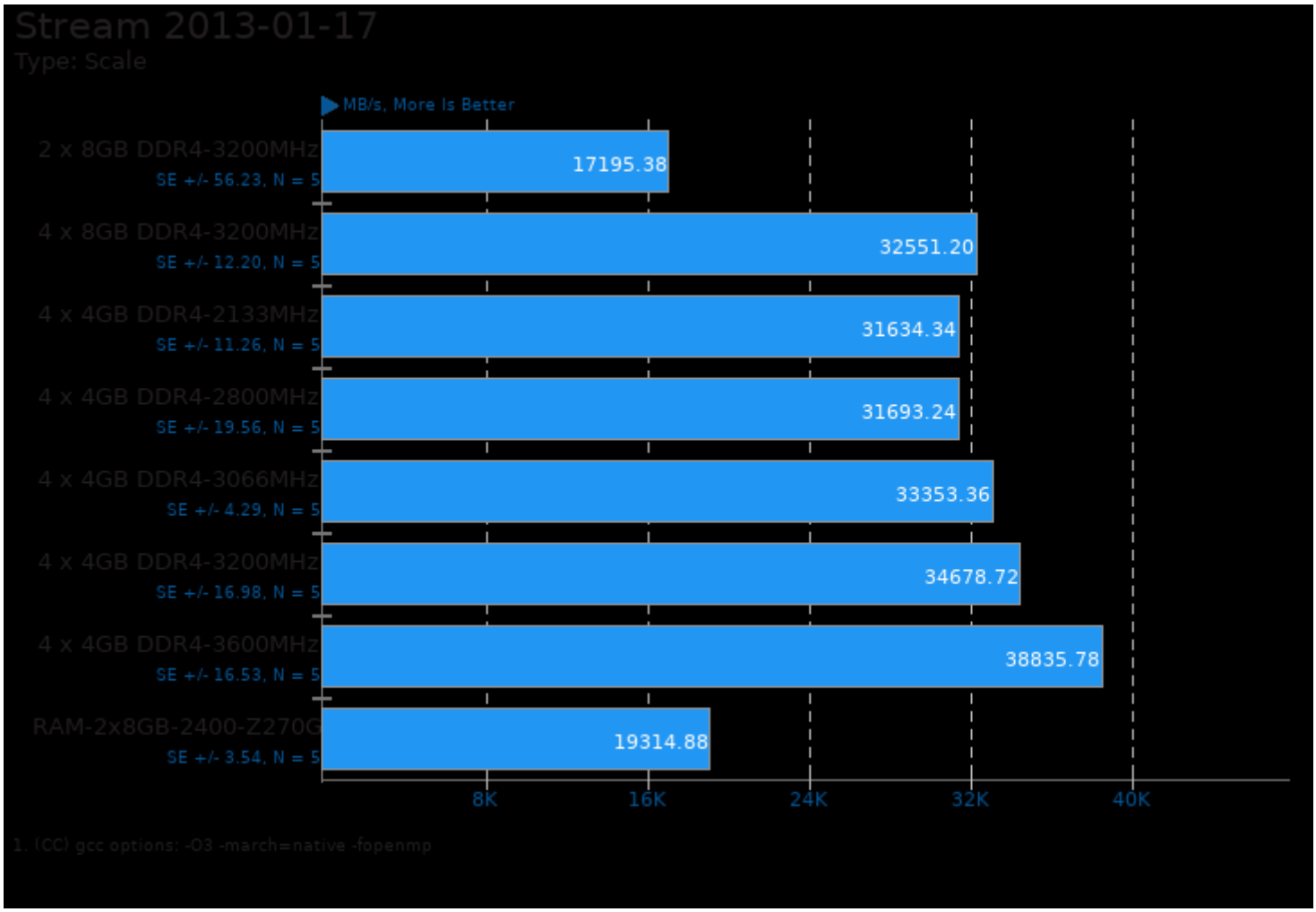
AMD Threadripper Linux Memory Tests



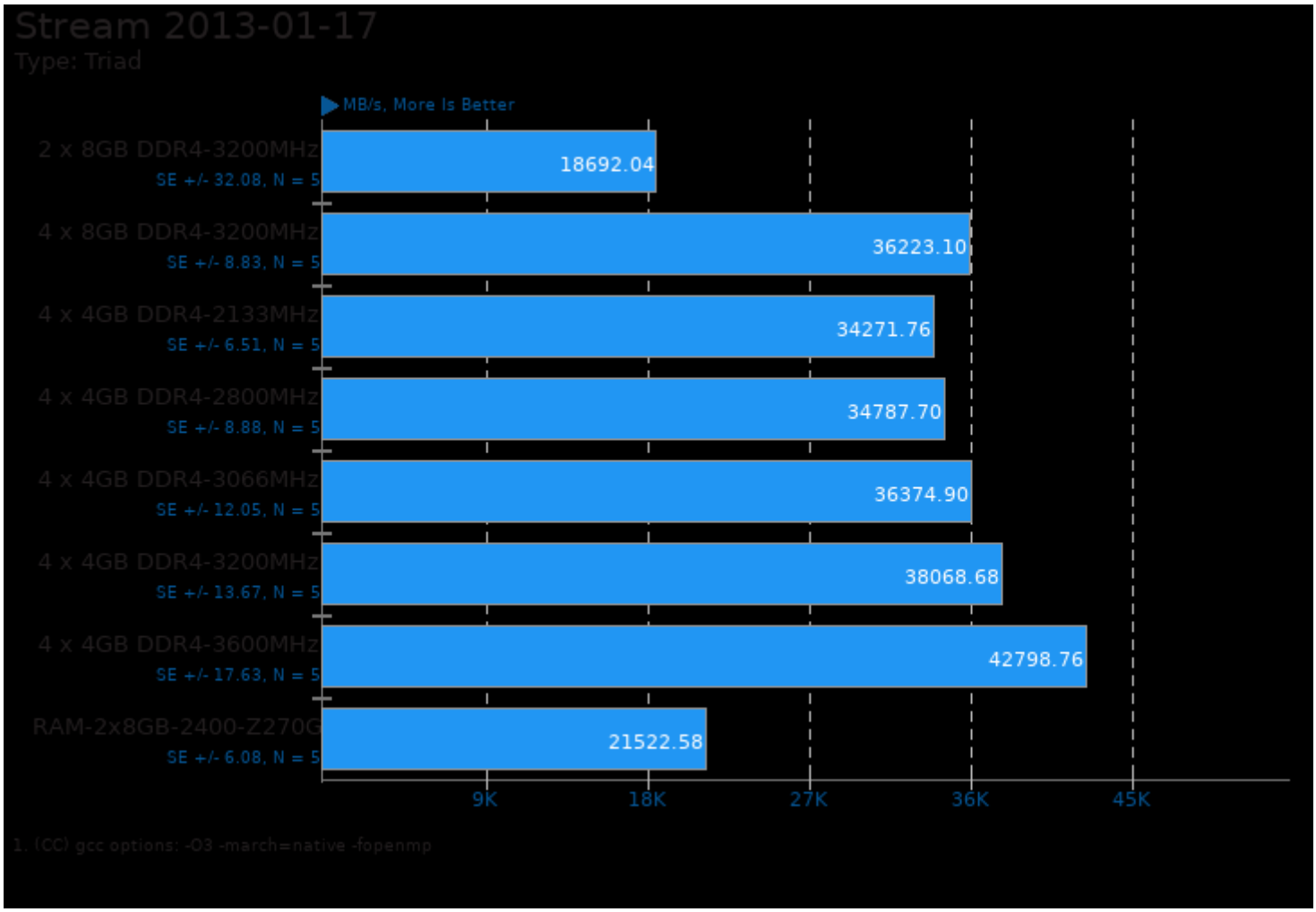
AMD Threadripper Linux Memory Tests



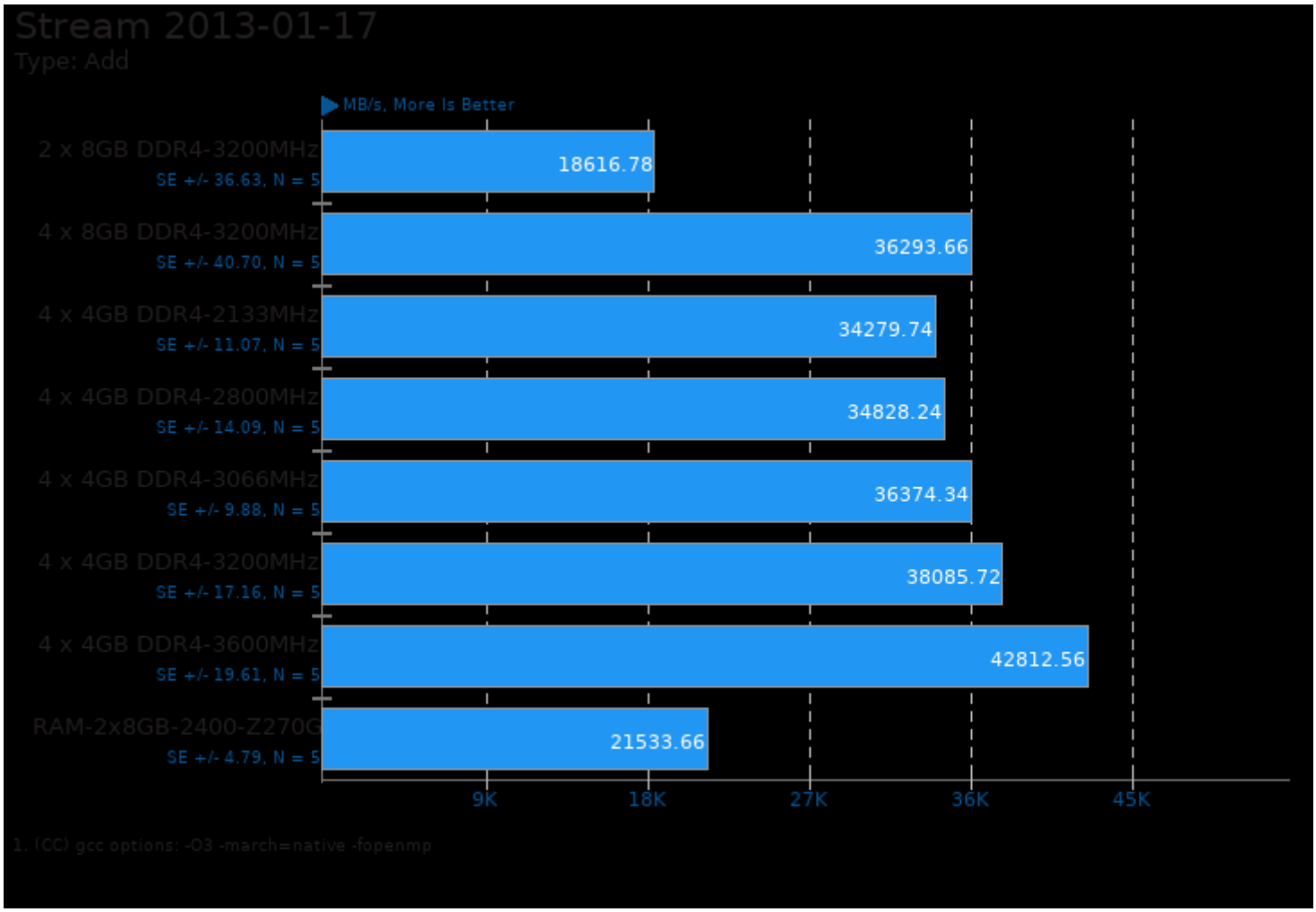
AMD Threadripper Linux Memory Tests



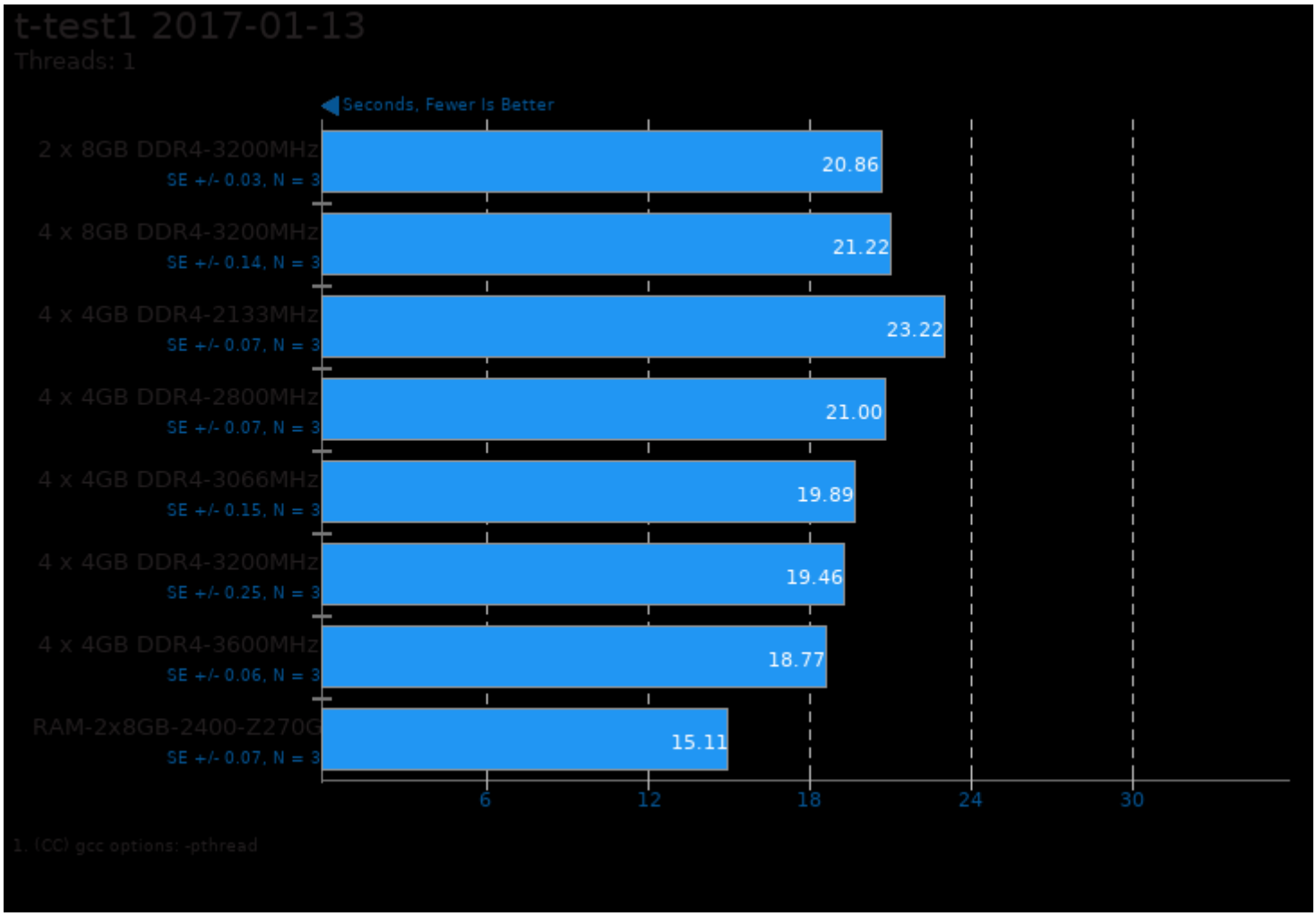
AMD Threadripper Linux Memory Tests



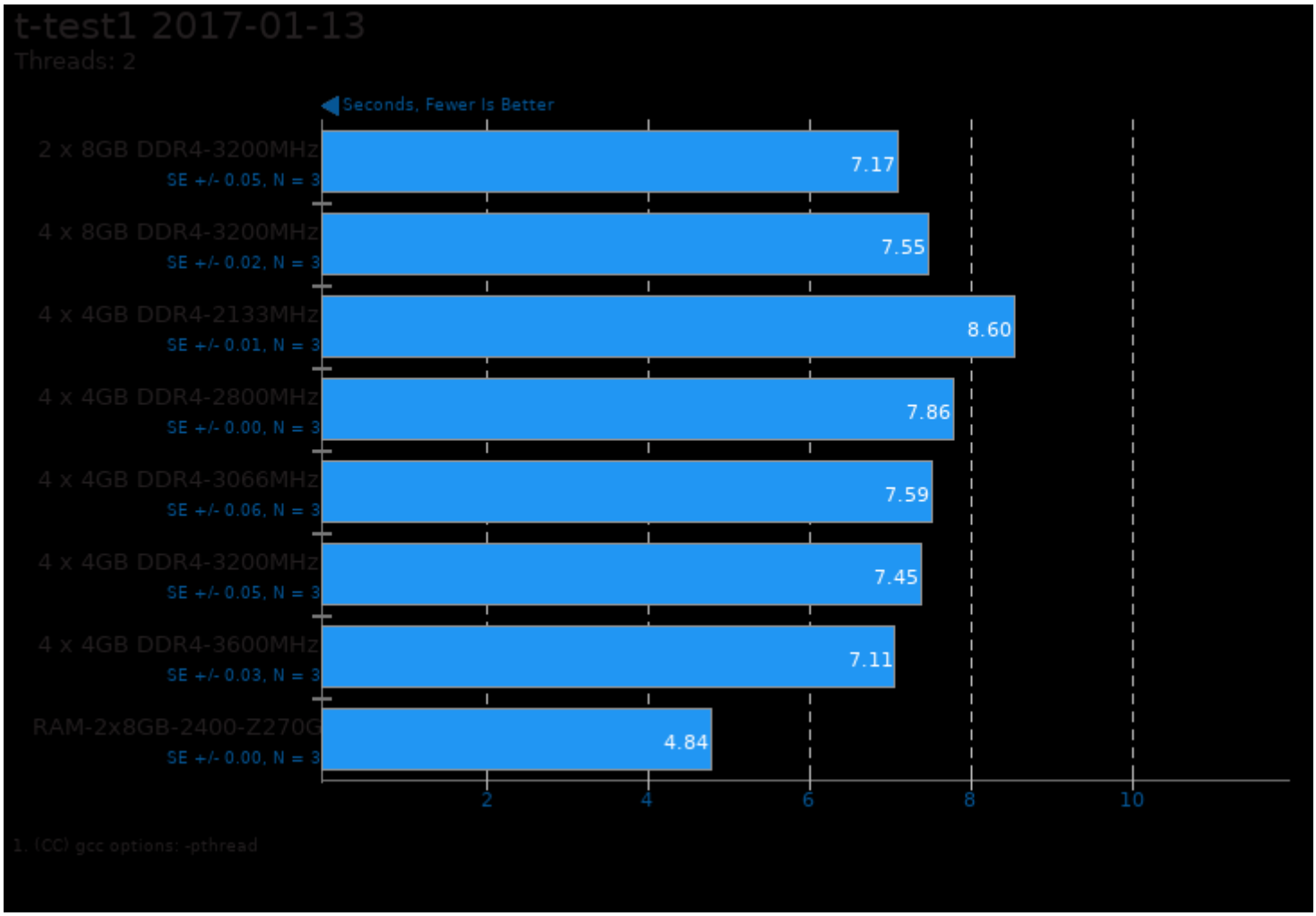
AMD Threadripper Linux Memory Tests



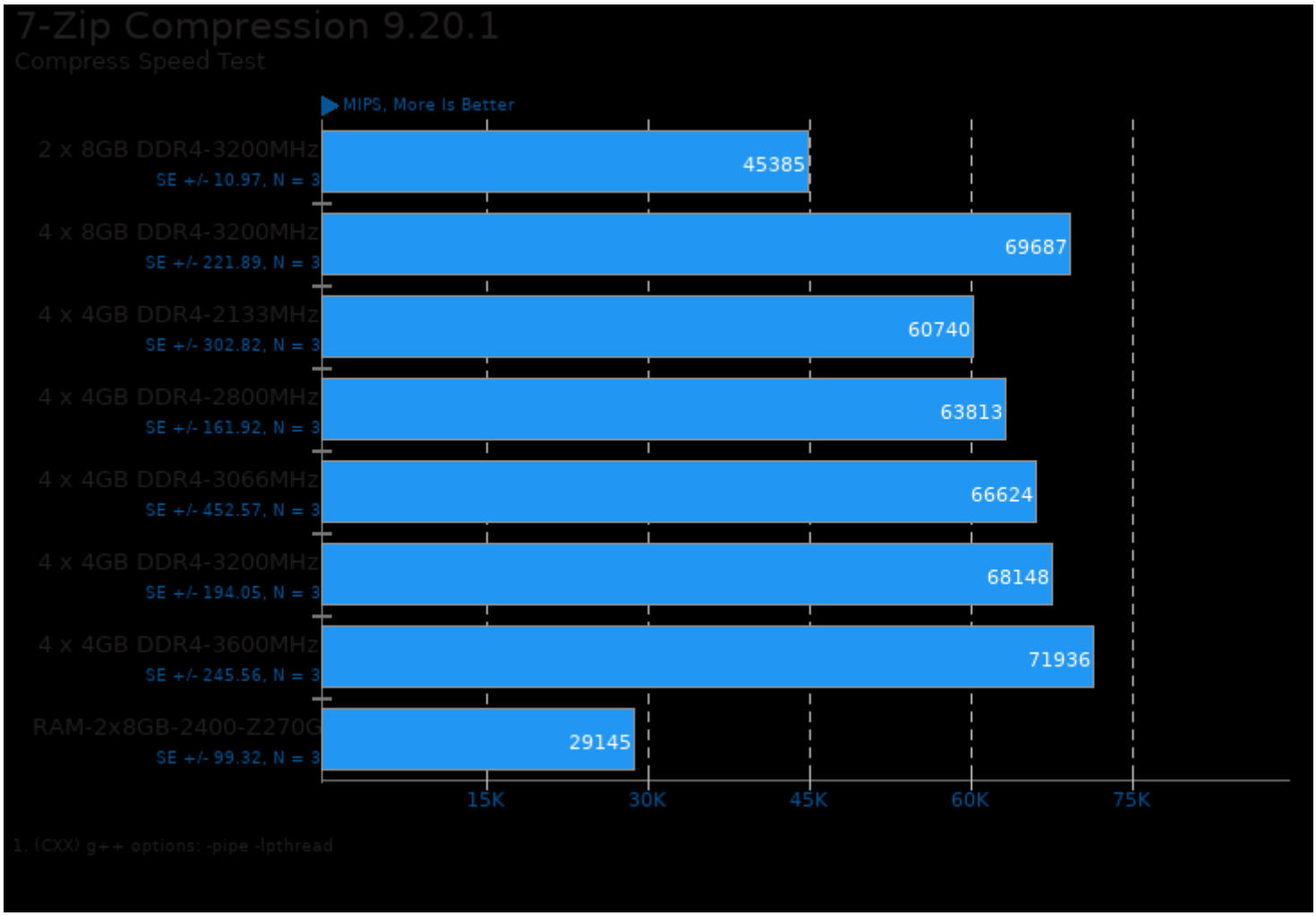
AMD Threadripper Linux Memory Tests



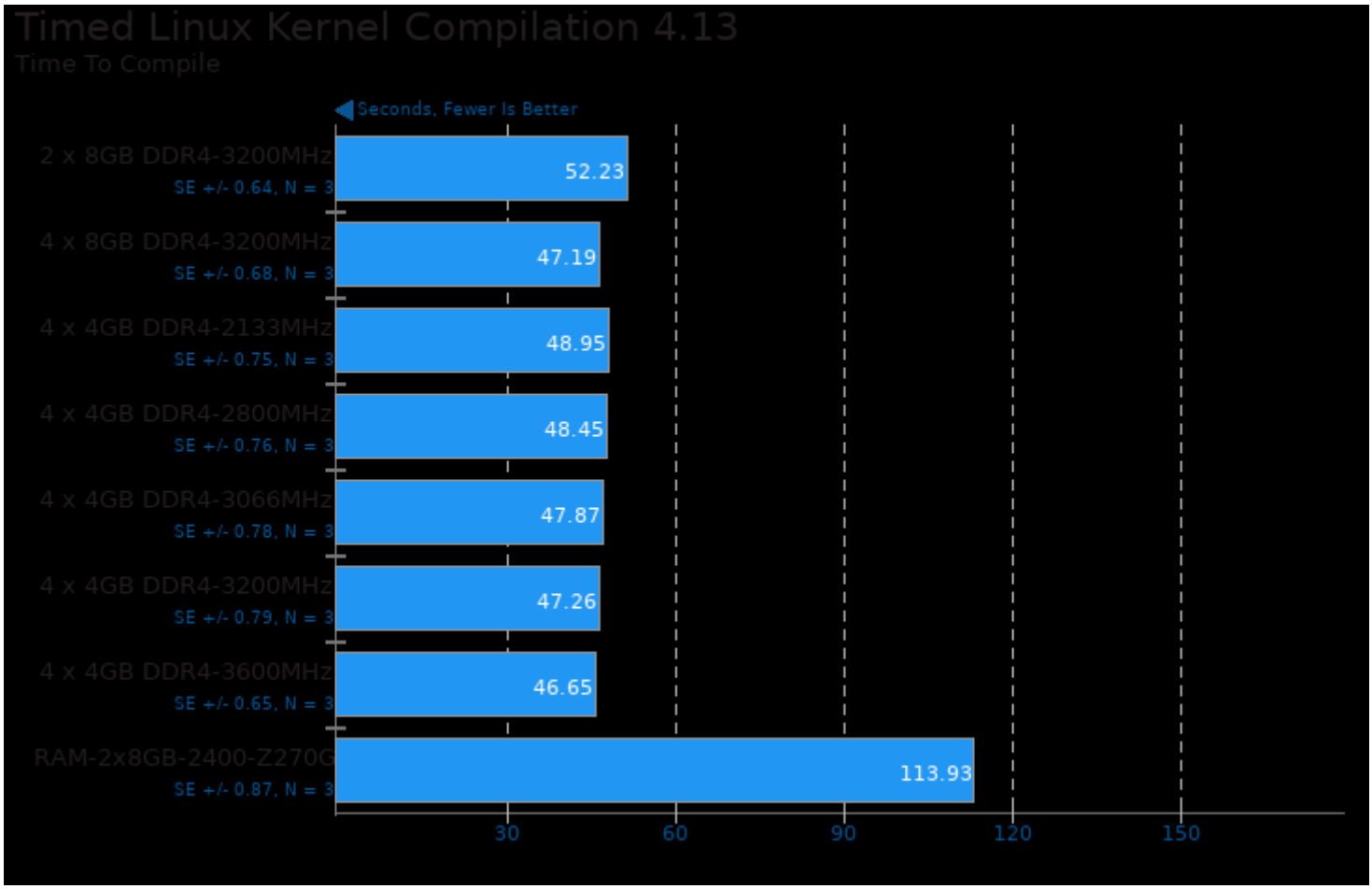
AMD Threadripper Linux Memory Tests

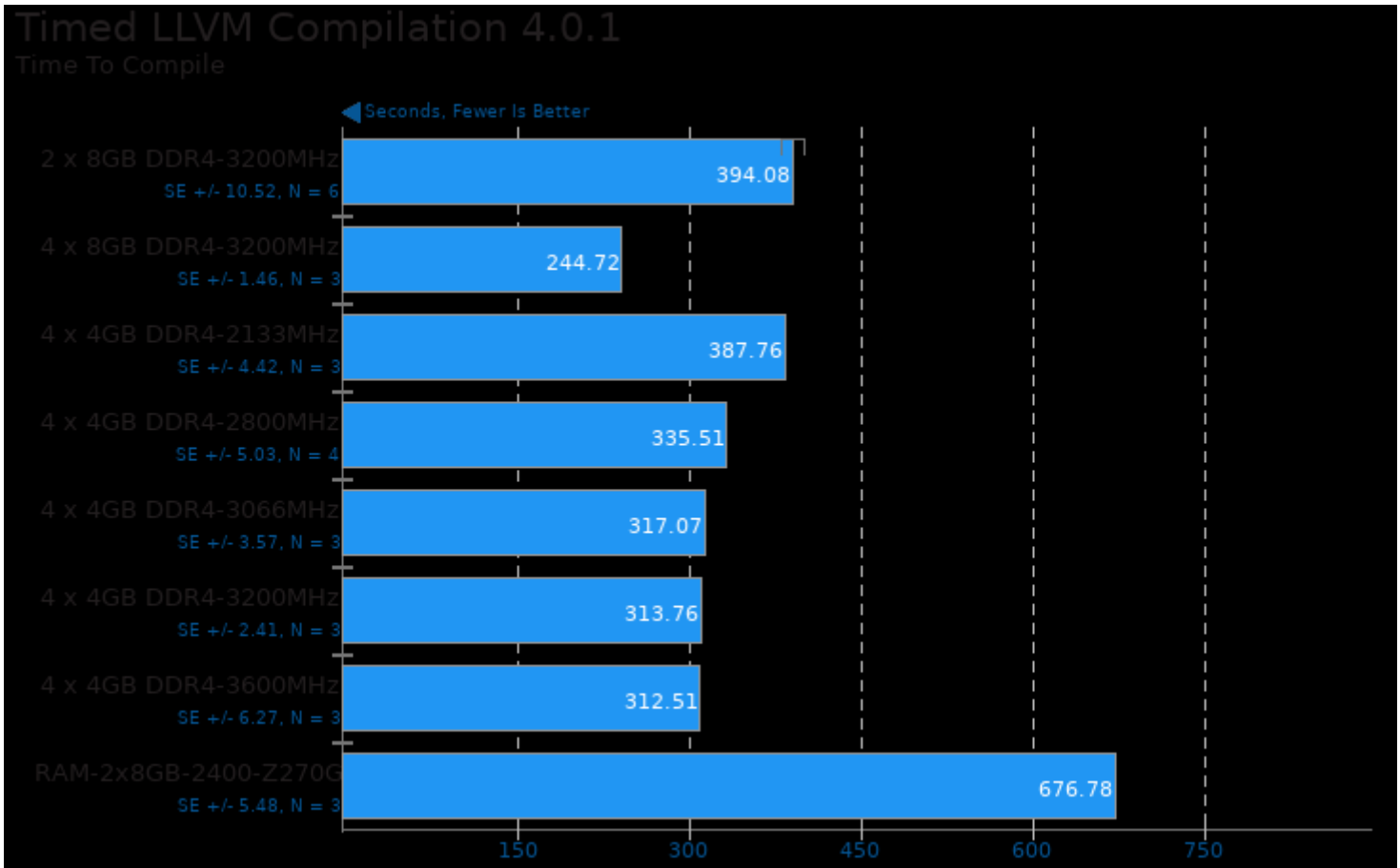


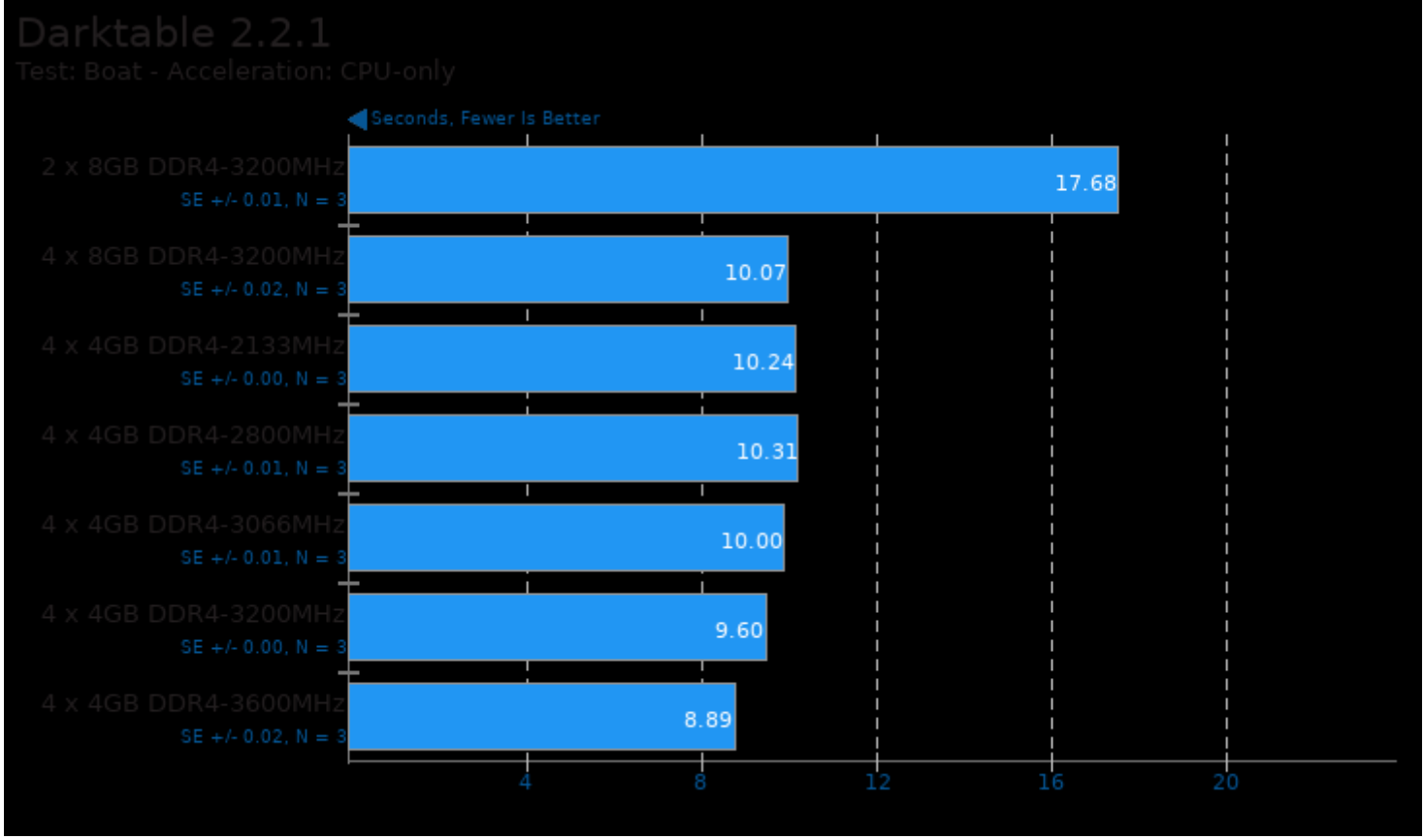
AMD Threadripper Linux Memory Tests

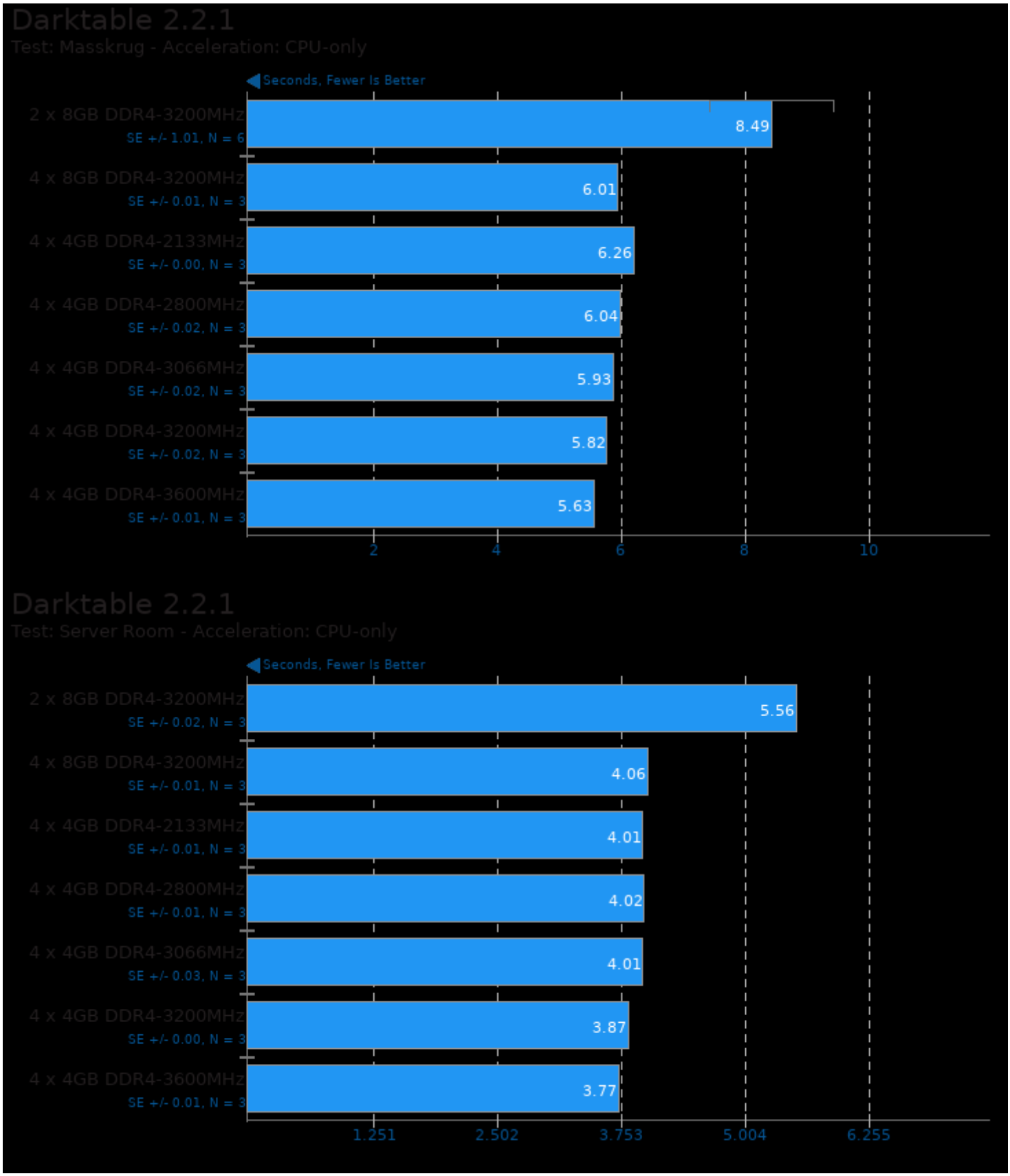


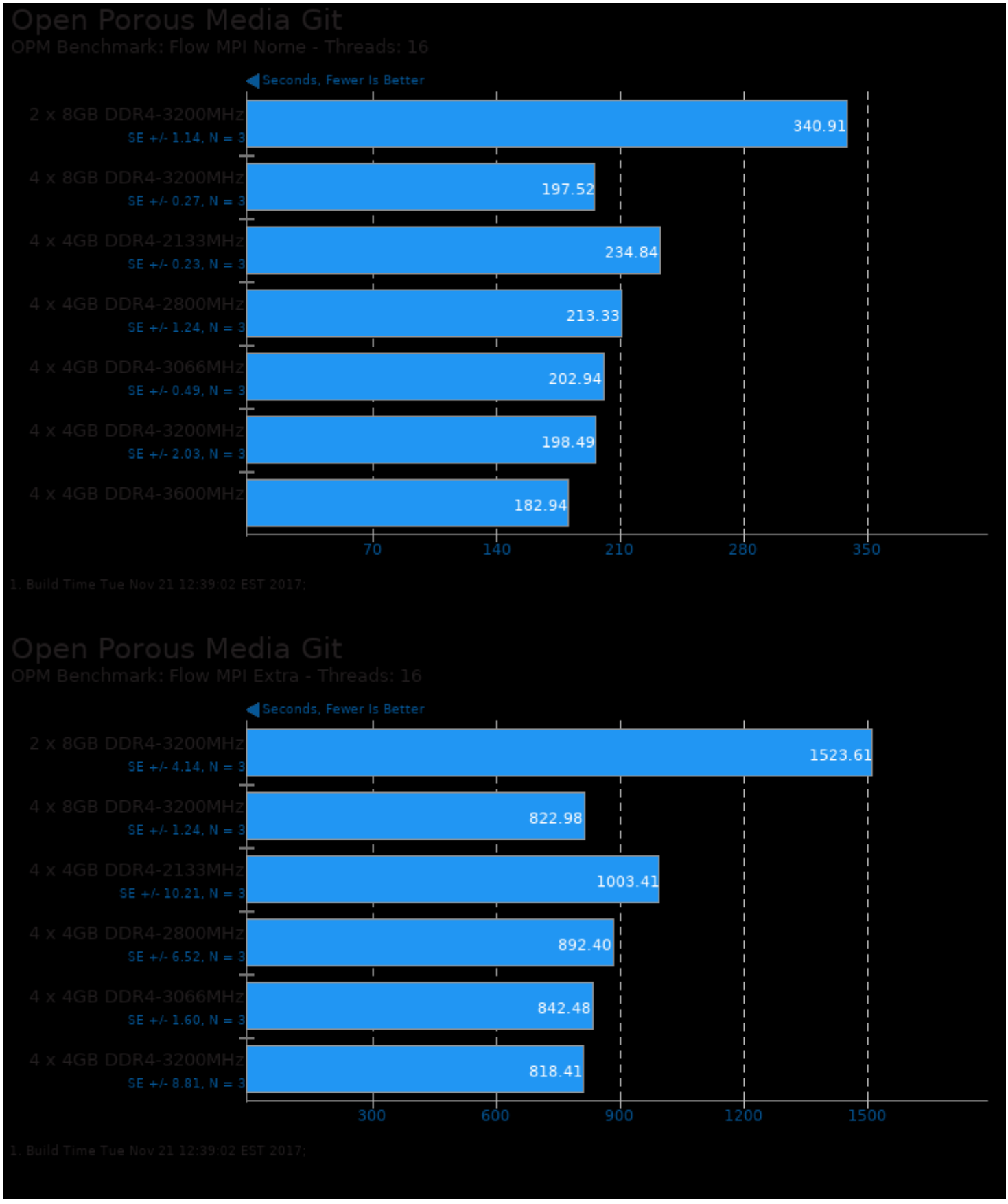
AMD Threadripper Linux Memory Tests



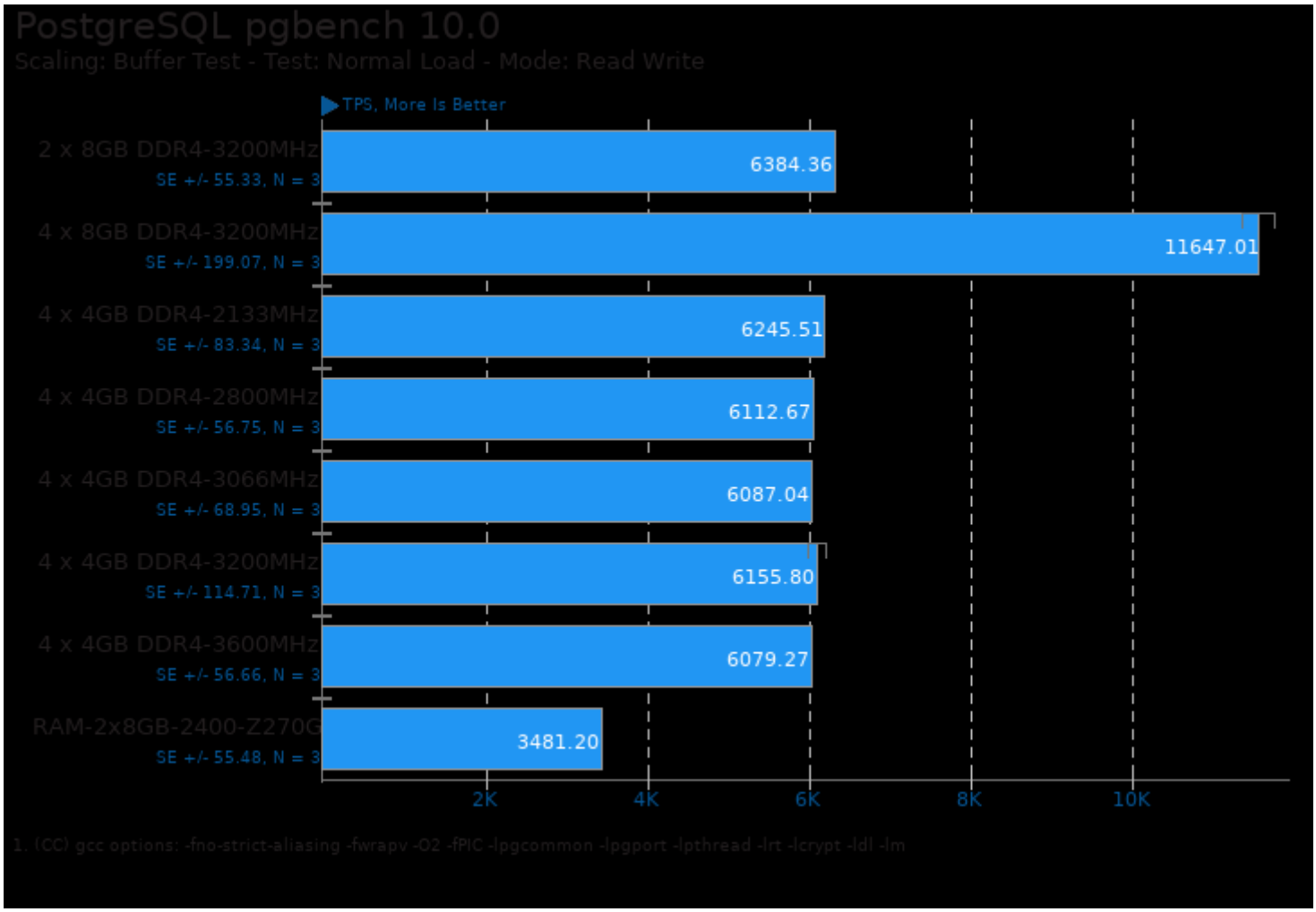

Timed LLVM Compilation 4.0.1
Time To Compile
Seconds, Fewer Is Better
2 x 8GB DDR4-3200MHz
SE +/- 10.52, N = 6
394.08
4 x 8GB DDR4-3200MHz
SE +/- 1.46, N = 3
244.72
4 x 4GB DDR4-2133MHz
SE +/- 4.42, N = 3
387.76
4 x 4GB DDR4-2800MHz
SE +/- 5.03, N = 4
335.51
4 x 4GB DDR4-3066MHz
SE +/- 3.57, N = 3
317.07
4 x 4GB DDR4-3200MHz
SE +/- 2.41, N = 3
313.76
4 x 4GB DDR4-3600MHz
SE +/- 6.27, N = 3
312.51
RAM-2x8GB-2400-Z270G
SE +/- 5.48, N = 3
676.78
150
300
450
600
750


Darktable 2.2.1
Test: Boat - Acceleration: CPU-only
Seconds, Fewer Is Better
2 x 8GB DDR4-3200MHz
SE +/- 0.01, N = 3
17.68
4 x 8GB DDR4-3200MHz
SE +/- 0.02, N = 3
10.07
4 x 4GB DDR4-2133MHz
SE +/- 0.00, N = 3
10.24
4 x 4GB DDR4-2800MHz
SE +/- 0.01, N = 3
10.31
4 x 4GB DDR4-3066MHz
SE +/- 0.01, N = 3
10.00
4 x 4GB DDR4-3200MHz
SE +/- 0.00, N = 3
9.60
4 x 4GB DDR4-3600MHz
SE +/- 0.02, N = 3
8.89
4
8
12
16
20

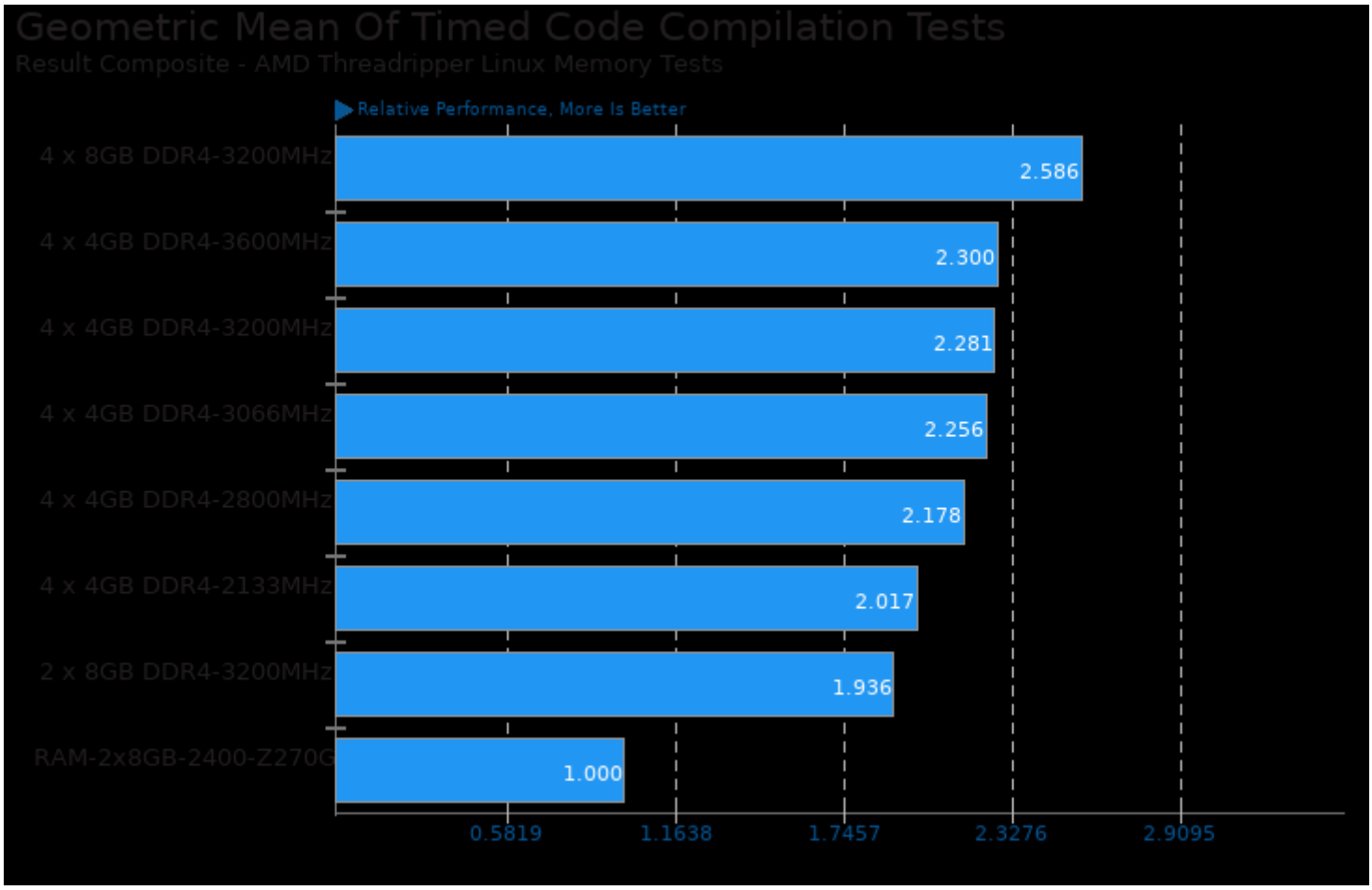

Darktable 2.2.1
Test: Masskrug - Acceleration: CPU-only
Seconds, Fewer Is Better
2 x 8GB DDR4-3200MHz
SE +/- 1.01, N = 6
8.49
4 x 8GB DDR4-3200MHz
SE +/- 0.01, N = 3
6.01
4 x 4GB DDR4-2133MHz
SE +/- 0.00, N = 3
6.26
4 x 4GB DDR4-2800MHz
SE +/- 0.02, N = 3
6.04
4 x 4GB DDR4-3066MHz
SE +/- 0.02, N = 3
5.93
4 x 4GB DDR4-3200MHz
SE +/- 0.02, N = 3
5.82
4 x 4GB DDR4-3600MHz
SE +/- 0.01, N = 3
5.63
2
4
6
8
10
Darktable 2.2.1
Test: Server Room - Acceleration: CPU-only
Seconds, Fewer Is Better
2 x 8GB DDR4-3200MHz
SE +/- 0.02, N = 3
5.56
4 x 8GB DDR4-3200MHz
SE +/- 0.01, N = 3
4.06
4 x 4GB DDR4-2133MHz
SE +/- 0.01, N = 3
4.01
4 x 4GB DDR4-2800MHz
SE +/- 0.01, N = 3
4.02
4 x 4GB DDR4-3066MHz
SE +/- 0.03, N = 3
4.01
4 x 4GB DDR4-3200MHz
SE +/- 0.00, N = 3
3.87
4 x 4GB DDR4-3600MHz
SE +/- 0.01, N = 3
3.77
1.251
2.502
3.753
5.004
6.255


Open Porous Media Git
OPM Benchmark: Flow MPI Norne - Threads: 16
Seconds, Fewer Is Better
2 x 8GB DDR4-3200MHz
SE +/- 1.14, N = 3
340.91
4 x 8GB DDR4-3200MHz
SE +/- 0.27, N = 3
197.52
4 x 4GB DDR4-2133MHz
SE +/- 0.23, N = 3
234.84
4 x 4GB DDR4-2800MHz
SE +/- 1.24, N = 3
213.33
4 x 4GB DDR4-3066MHz
SE +/- 0.49, N = 3
202.94
4 x 4GB DDR4-3200MHz
SE +/- 2.03, N = 3
198.49
4 x 4GB DDR4-3600MHz
182.94
70
140
210
280
350
1. Build Time Tue Nov 21 12:39:02 EST 2017;
Open Porous Media Git
OPM Benchmark: Flow MPI Extra - Threads: 16
Seconds, Fewer Is Better
2 x 8GB DDR4-3200MHz
SE +/- 4.14, N = 3
1523.61
4 x 8GB DDR4-3200MHz
SE +/- 1.24, N = 3
822.98
4 x 4GB DDR4-2133MHz
SE +/- 10.21, N = 3
1003.41
4 x 4GB DDR4-2800MHz
SE +/- 6.52, N = 3
892.40
4 x 4GB DDR4-3066MHz
SE +/- 1.60, N = 3
842.48
4 x 4GB DDR4-3200MHz
SE +/- 8.81, N = 3
818.41
300
600
900
1200
1500
1. Build Time Tue Nov 21 12:39:02 EST 2017;

AMD Threadripper Linux Memory Tests

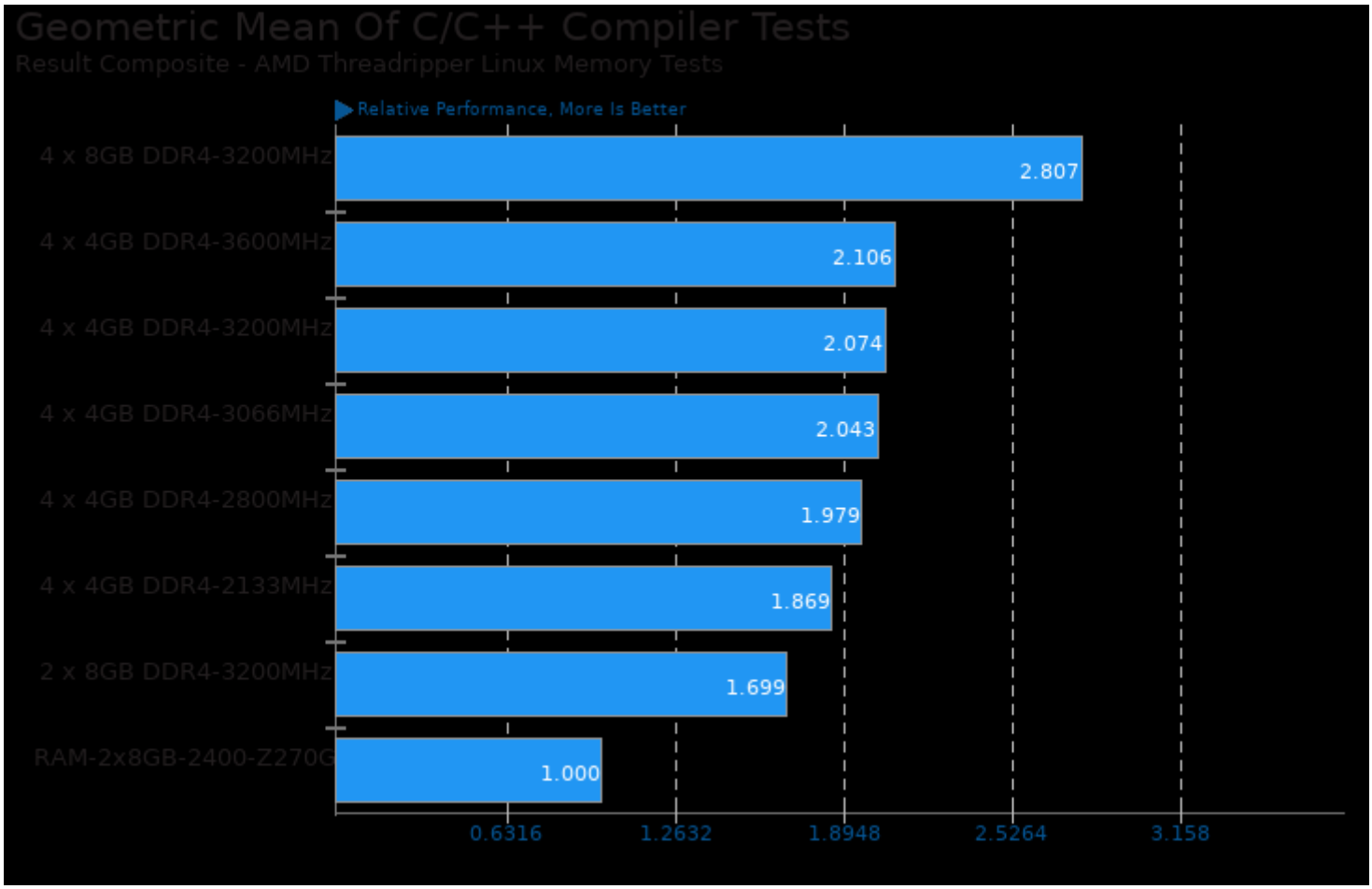


These geometric means are based upon test groupings / test suites for this result file.

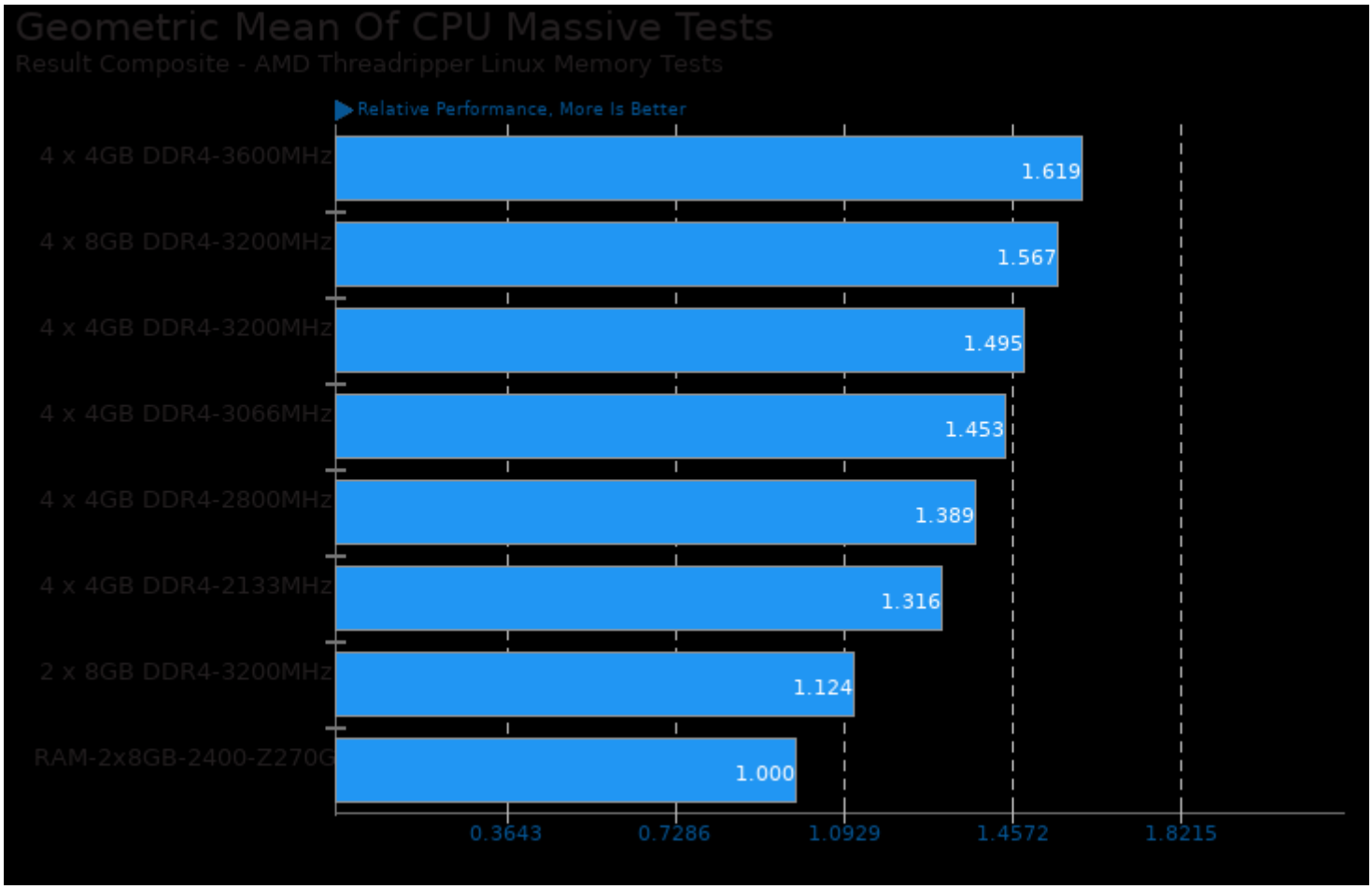


Geometric mean based upon tests: pts/build-linux-kernel and pts/build-llvm

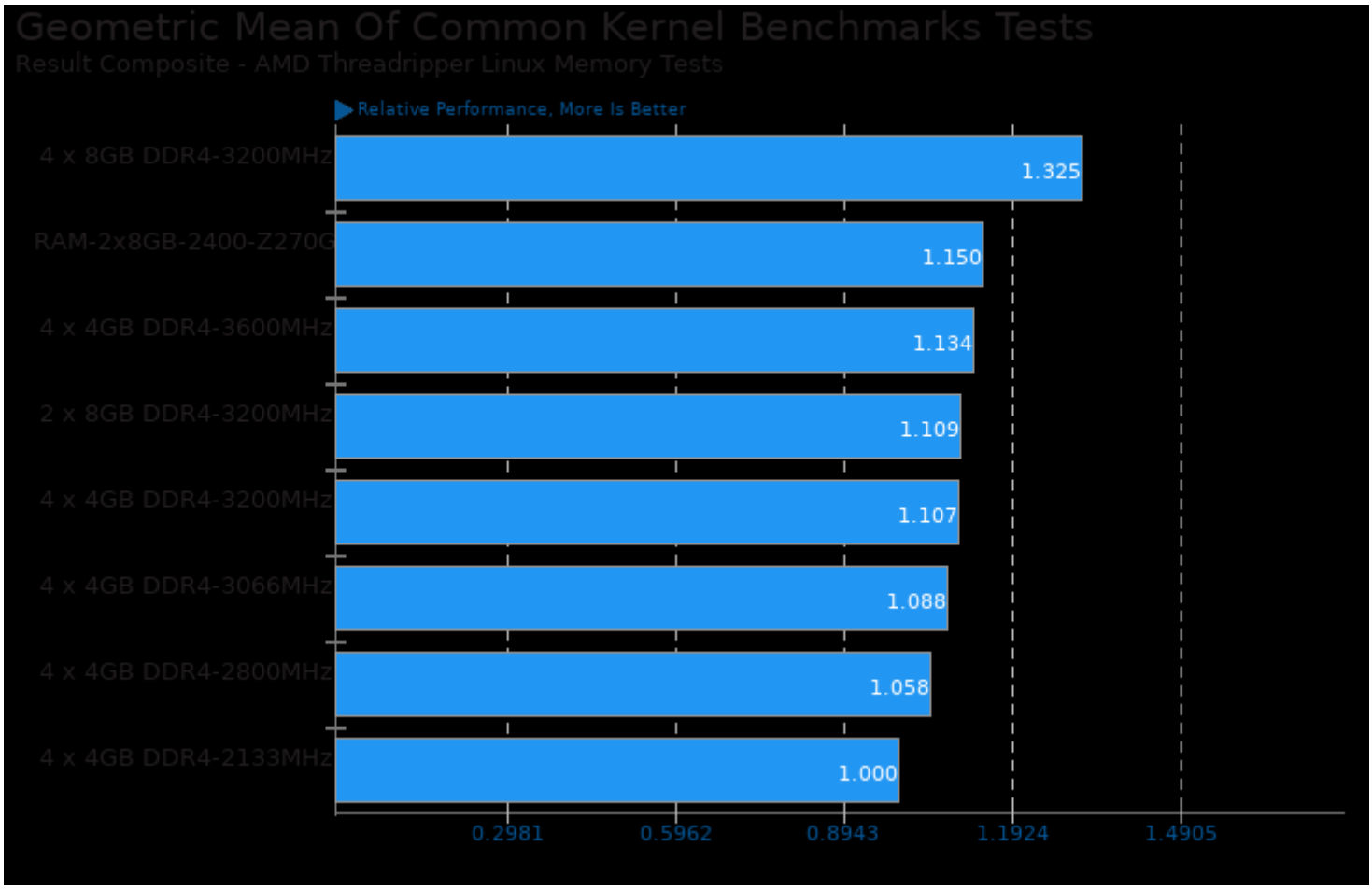
AMD Threadripper Linux Memory Tests



Geometric mean based upon tests: pts/build-llvm, pts/compress-7zip and pts/pgbench

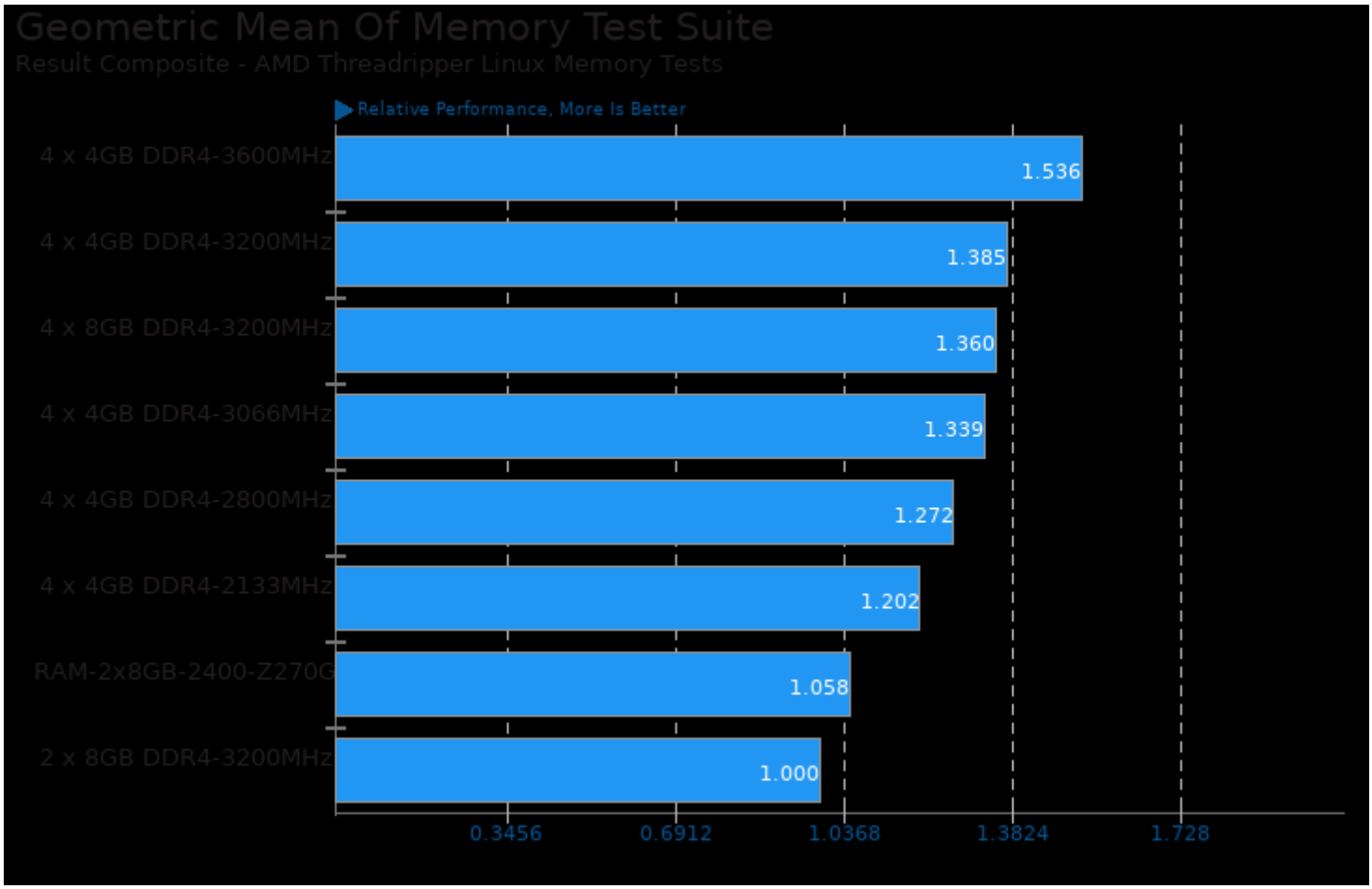


Geometric mean based upon tests: pts/build-llvm, pts/build-linux-kernel, pts/compress-7zip, pts/pgbench, pts/ramspeed, pts/stream, pts/t-test1 and system/darktable



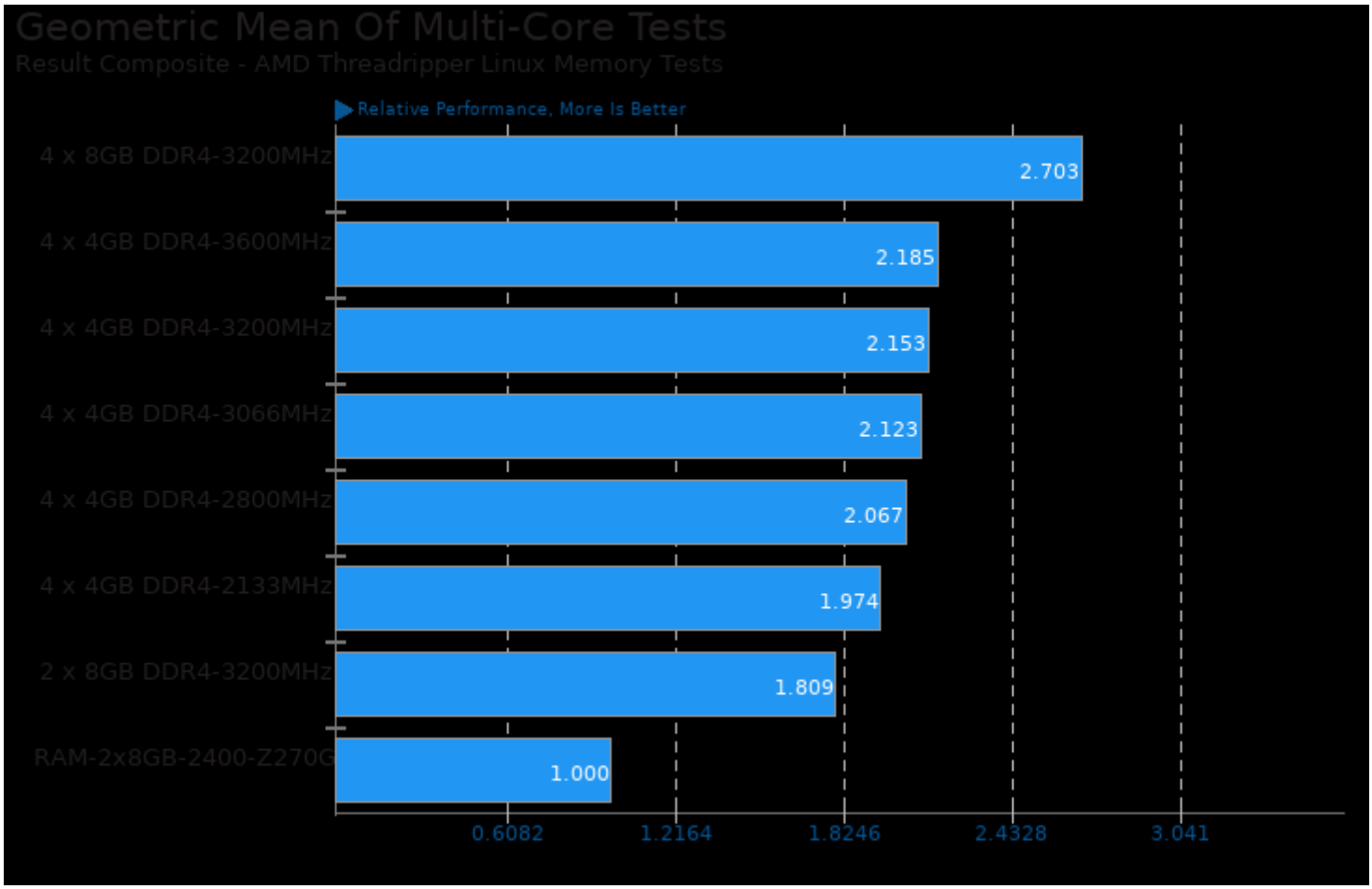
Geometric mean based upon tests: pts/pgbench and pts/t-test1

AMD Threadripper Linux Memory Tests



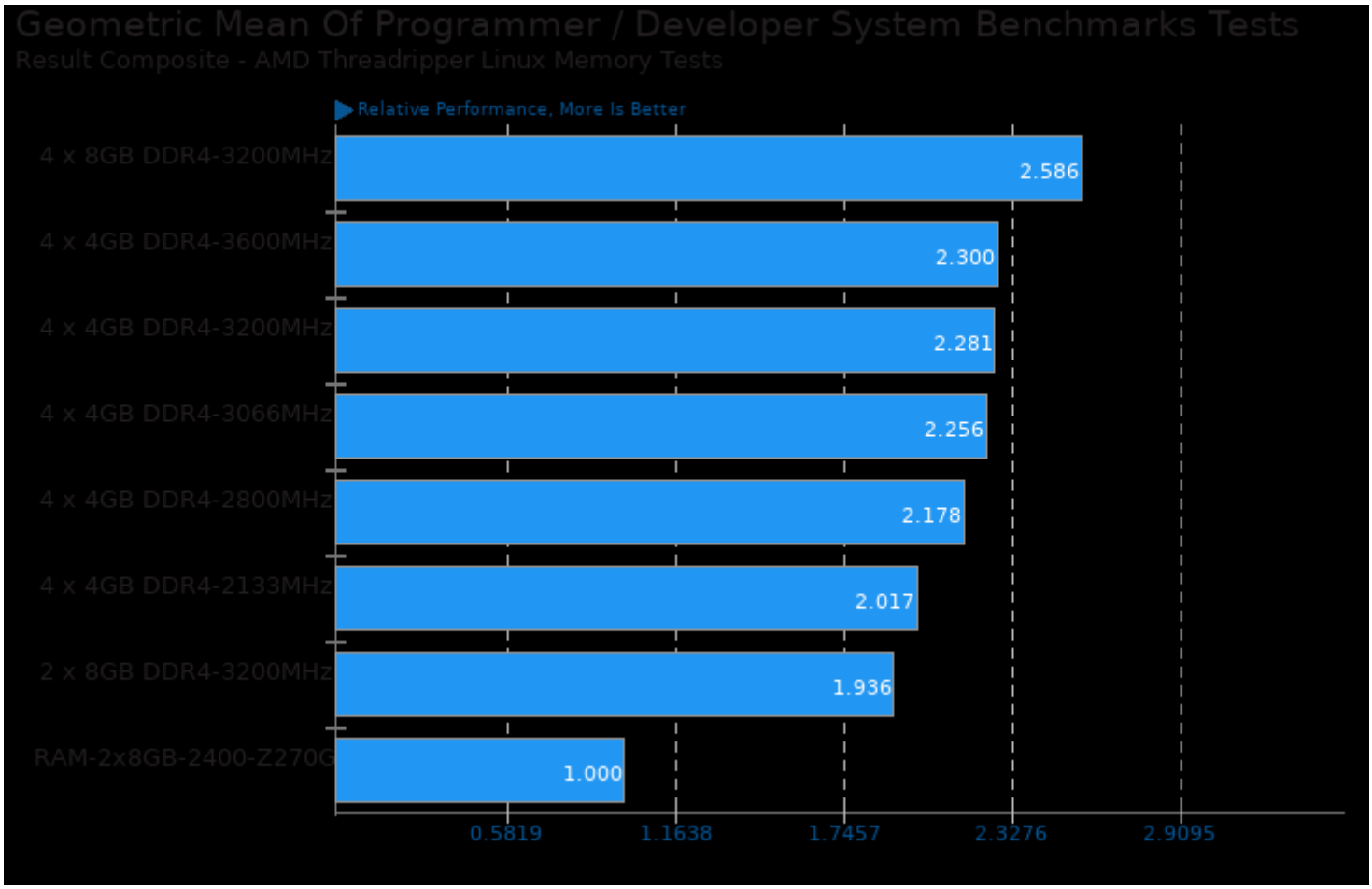
Geometric mean based upon tests: pts/ramspeed, pts/stream and pts/t-test1

AMD Threadripper Linux Memory Tests



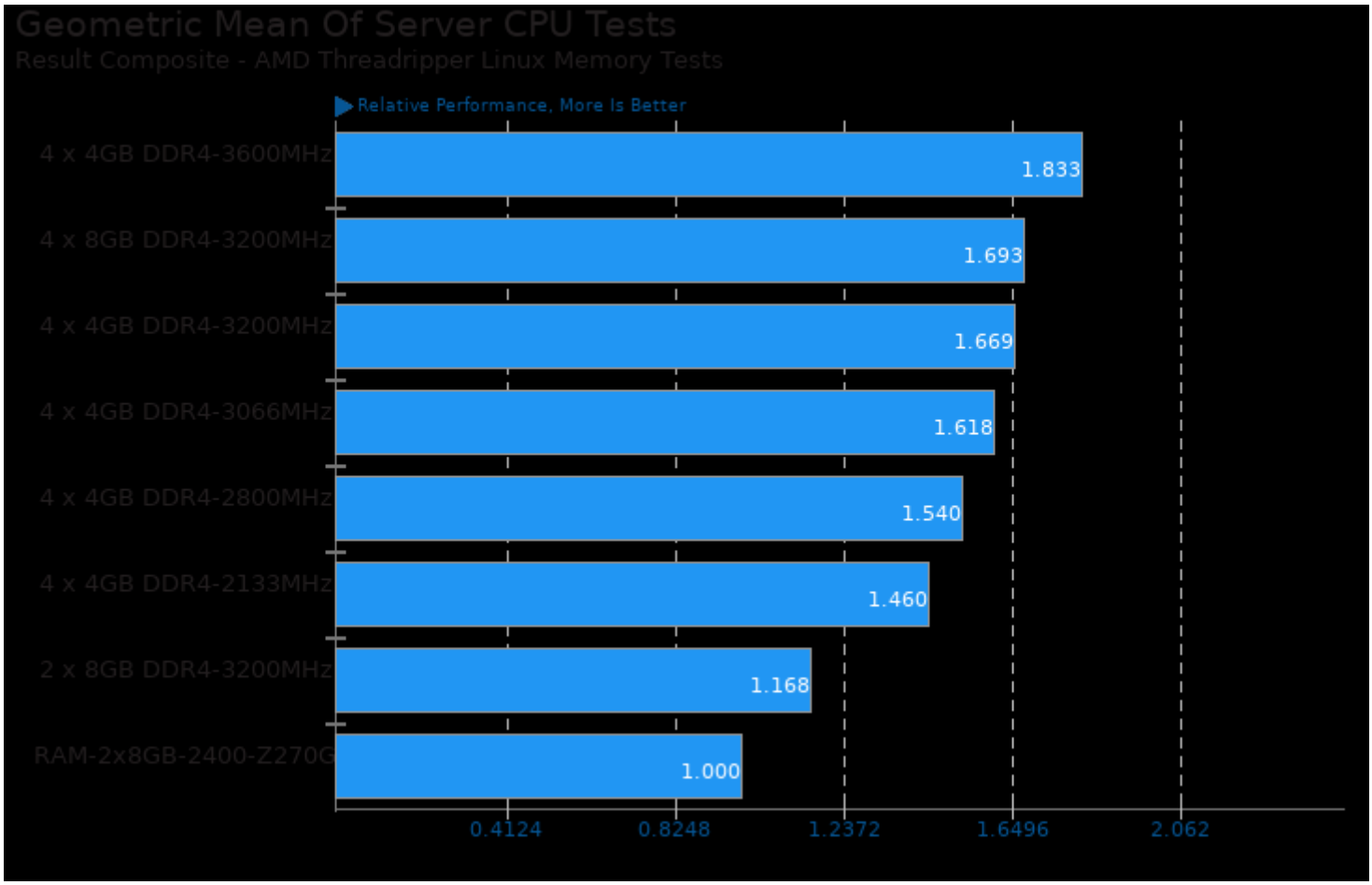
Geometric mean based upon tests: pts/compress-7zip, pts/build-linux-kernel, pts/build-llvm and pts/pgbench

AMD Threadripper Linux Memory Tests



Geometric mean based upon tests: pts/build-linux-kernel and pts/build-llvm

AMD Threadripper Linux Memory Tests



Geometric mean based upon tests: pts/compress-7zip, pts/build-linux-kernel, pts/build-llvm, pts/ramspeed and pts/stream

This file was automatically generated via the Phoronix Test Suite benchmarking software on Thursday, 28 March 2024 09:27.