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KP100-UOS-KyV10-openeuler2003

Phytium S2500/64 C00 testing with a ZD-TECH KL4.26.UEFI.S.024.210617.D and llvmpipe on Kylin Linux Advanced Server V10 via the Phoronix Test Suite.

Automated Executive Summary

KP100Ky kernel had the most wins, coming in first place for 55% of the tests.

Based on the geometric mean of all complete results, the fastest (KP100Ky kernel) was 1.481x the speed of the slowest (KP920-FTs2500_KYV10). KP100 openeuler2003 was 0.97x the speed of KP100Ky kernel, KP100 was 0.898x the speed of KP100 openeuler2003, KP920-FTs2500_KYV10 was 0.775x the speed of KP100.

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

RAMspeed SMP (Type: Triad - Benchmark: Integer) at 3.537x
Compile Bench (Test: Initial Create) at 2.896x
BlogBench (Test: Read) at 2.771x
CacheBench (Test: Write) at 2.426x
FS-Mark (Test: 1000 Files, 1MB Size, No Sync/FSync) at 2.138x
RAMspeed SMP (Type: Add - Benchmark: Integer) at 2.093x
Dbench (Client Count: 6) at 2.006x
RAMspeed SMP (Type: Average - Benchmark: Integer) at 1.899x

RAMspeed SMP (Type: Copy - Benchmark: Integer) at 1.849x
PHPBench (PHP Benchmark Suite) at 1.845x.

Test Systems:

KP100

Processor: Unknown @ 2.60GHz (64 Cores), Motherboard: THTF BC82AMDGE (KL4.41.017.TF.201225.R BIOS), Chipset: Huawei HiSilicon, Memory: 4 x 16384 MB DDR4-2933MT/s Hynix HMA82GR7CJR8N-WM, Disk: 240GB SAMSUNG MZ7LH240 + 1999GB HW-SAS3508, Graphics: llvmpipe 64256MB, Network: Huawei HNS GE/10GE/25GE

OS: Linx 10, Kernel: 4.19.0-11-linx-security-arm64 (aarch64), Display Server: X Server 1.20.4, Display Driver: modesetting 1.20.4, OpenGL: 3.3 Mesa 18.3.6 (LLVM 7.0 128 bits), Compiler: GCC 8.3.0, File-System: ext4, Screen Resolution: 1024x768

Compiler Notes: --build=aarch64-linux-gnu --disable-libphobos --disable-libquadmath --disable-libquadmath-support --disable-werror --enable-bootstrap --enable-checking=release --enable-clocale=gnu --enable-fix-cortex-a53-843419 --enable-gnu-unique-object --enable-languages=c,ada,c++,go,d,fortran,objc,obj-c++ --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-nls --enable-plugin --enable-shared --enable-threads=posix --host=aarch64-linux-gnu --program-prefix=aarch64-linux-gnu- --target=aarch64-linux-gnu --with-default-libstdcxx-abi=new --with-gcc-major-version-only -v
Disk Notes: MQ-DEADLINE / errors=remount-ro,relatime,rw
Processor Notes: Scaling Governor: cppc_cpufreq performance
Python Notes: Python 2.7.16 + Python 3.7.3
Security Notes: __user pointer sanitization Protection

KP100Ky kernel

Processor: HUAWEI Kunpeng 920 @ 2.60GHz (64 Cores), Motherboard: THTF BC82AMDGE (KL4.41.017.TF.201225.R BIOS), Chipset: Huawei HiSilicon, Memory: 4 x 16384 MB DDR4-2933MT/s Hynix HMA82GR7CJR8N-WM, Disk: 240GB SAMSUNG MZ7LH240 + 1999GB HW-SAS3508, Graphics: llvmpipe 65152MB, Network: Huawei HNS GE/10GE/25GE

OS: Linx 10, Kernel: 4.19.90-24.4.v2101.ky10.aarch64 (aarch64) 20210524, Display Server: X Server 1.20.4, Display Driver: modesetting 1.20.4, OpenGL: 3.3 Mesa 18.3.6 (LLVM 7.0 128 bits), Compiler: GCC 8.3.0, File-System: ext4, Screen Resolution: 1024x768

Compiler Notes: --build=aarch64-linux-gnu --disable-libphobos --disable-libquadmath --disable-libquadmath-support --disable-werror --enable-bootstrap --enable-checking=release --enable-clocale=gnu --enable-fix-cortex-a53-843419 --enable-gnu-unique-object --enable-languages=c,ada,c++,go,d,fortran,objc,obj-c++ --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-nls --enable-plugin --enable-shared --enable-threads=posix --host=aarch64-linux-gnu --program-prefix=aarch64-linux-gnu- --target=aarch64-linux-gnu --with-default-libstdcxx-abi=new --with-gcc-major-version-only -v
Disk Notes: MQ-DEADLINE / errors=remount-ro,relatime,rw
Processor Notes: Scaling Governor: cppc_cpufreq performance
Python Notes: Python 2.7.16 + Python 3.7.3
Security Notes: __user pointer sanitization Protection

KP100 openeuler2003

Processor: Unknown @ 2.60GHz (64 Cores), Motherboard: THTF BC82AMDGE (KL4.41.017.TF.201225.R BIOS), Chipset: Huawei HiSilicon, Memory: 4 x 16384 MB DDR4-2933MT/s Hynix HMA82GR7CJR8N-WM, Disk: 240GB SAMSUNG MZ7LH240 + 1999GB HW-SAS3508, Graphics: llvmpipe 65152MB, Network: Huawei HNS GE/10GE/25GE

OS: Linx 10, Kernel: 4.19.90-2003.4.0.0036.oe1.aarch64 (aarch64) 20200323, Display Server: X Server 1.20.4, Display Driver: modesetting 1.20.4, OpenGL: 3.3 Mesa 18.3.6 (LLVM 7.0 128 bits), Compiler: GCC 8.3.0, File-System: ext4,

Screen Resolution: 1024x768

Compiler Notes: --build=aarch64-linux-gnu --disable-libphobos --disable-libquadmath --disable-libquadmath-support --disable-werror --enable-bootstrap --enable-checking=release --enable-clocale=gnu --enable-fix-cortex-a53-843419 --enable-gnu-unique-object --enable-languages=c,ada,c++,go,d,fortran,objc,obj-c++ --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-nls --enable-plugin --enable-shared --enable-threads=posix --host=aarch64-linux-gnu --program-prefix=aarch64-linux-gnu- --target=aarch64-linux-gnu --with-default-libstdcxx-abi=new --with-gcc-major-version-only -v
Disk Notes: MQ-DEADLINE / errors=remount-ro,relatime,rw
Processor Notes: Scaling Governor: cppc_cpufreq performance
Python Notes: Python 2.7.16 + Python 3.7.3
Security Notes: __user pointer sanitization Protection

KP920-FTs2500_KYV10

Processor: Phytium S2500/64 C00 (128 Cores), Motherboard: ZD-TECH KL4.26.UEFI.S.024.210617.D, Memory: 16 x 16384 MB DDR4-3200MT/s Micron DDR4-, Disk: 240GB SAMSUNG MZ7LH240, Graphics: llvmpipe, Monitor: BenQ GL2055, Network: 4 x Intel I350

OS: Kylin Linux Advanced Server V10, Kernel: 4.19.90-23.4.v2101.ky10.aarch64 (aarch64) 20210303, Desktop: MATE, Display Server: X Server 1.20.6, OpenGL: 3.3 Mesa 18.3.6 (LLVM 7.0 128 bits), Compiler: GCC 7.3.0, File-System: xfs, Screen Resolution: 1600x900

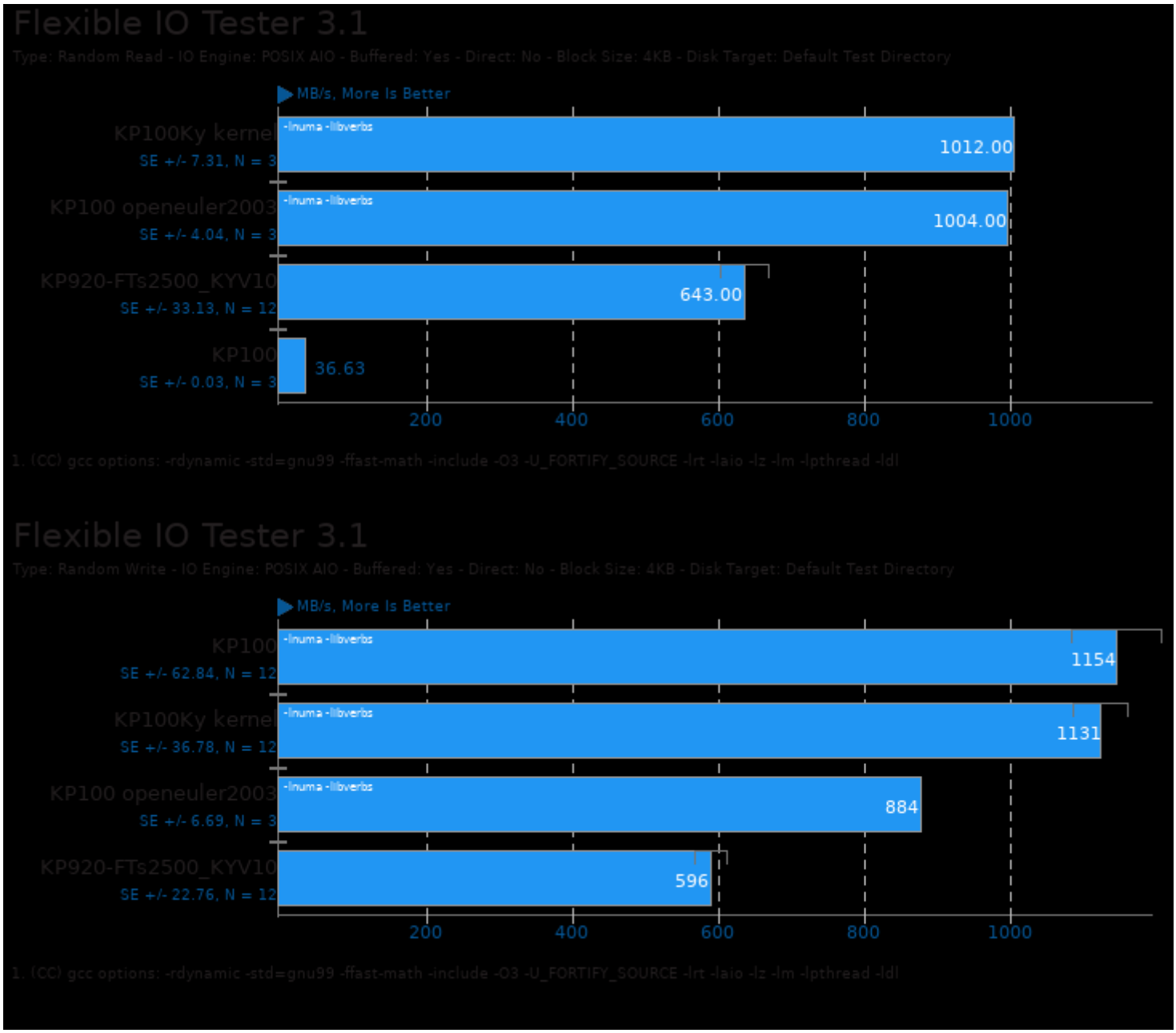
Kernel Notes: Transparent Huge Pages: madvise
Disk Notes: MQ-DEADLINE / attr2,inode64,noquota,relatime,rw / Block Size: 4096
Python Notes: Python 2.7.16 + Python 3.7.4
Security Notes: itlb_multihit: Not affected + l1tf: Not affected + mds: Not affected + meltdown: Mitigation of PTI + spec_store_bypass: Vulnerable + spectre_v1: Mitigation of __user pointer sanitization + spectre_v2: Not affected + srbds: Not affected + tsx_async_abort: Not affected

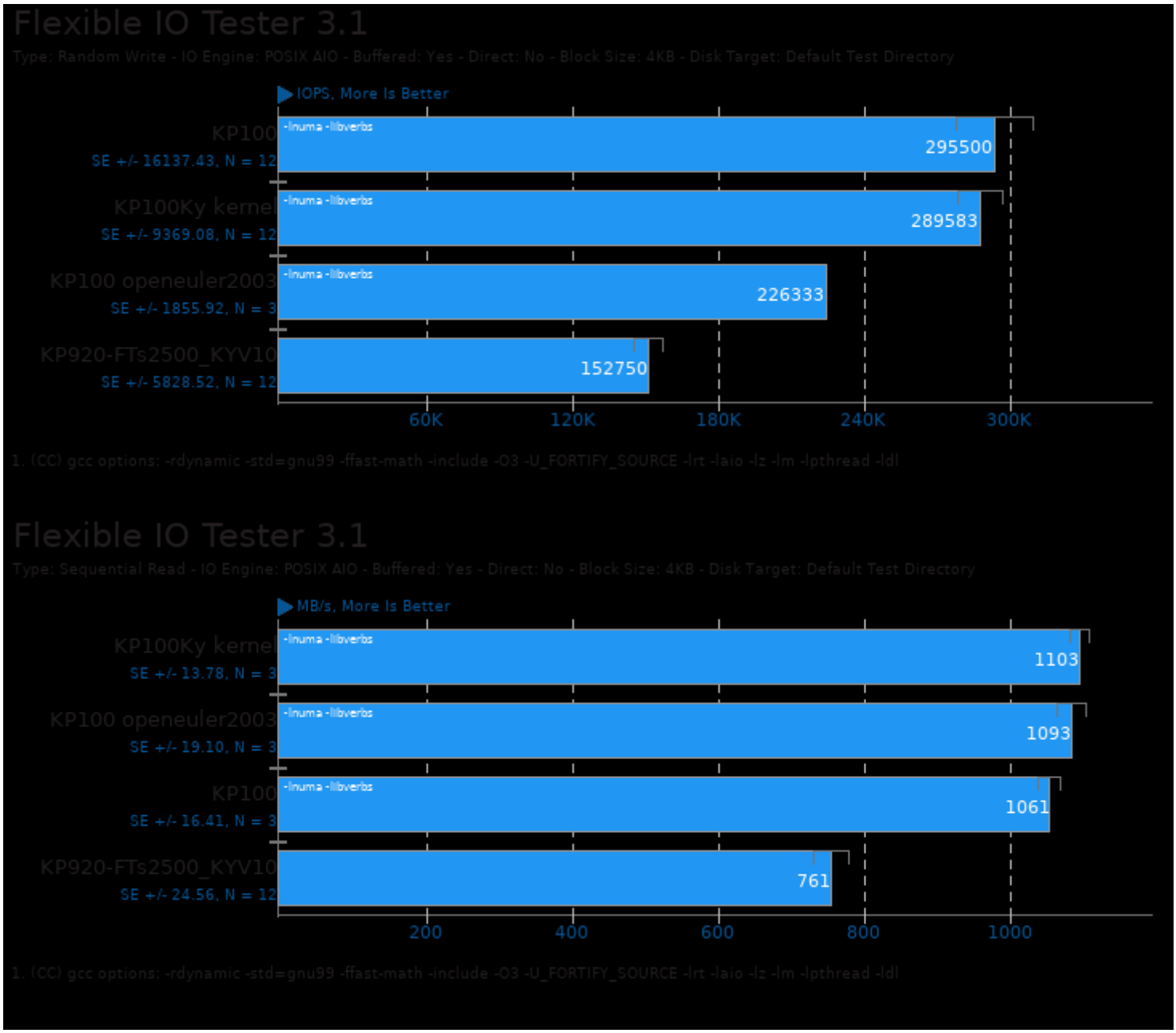
	KP100	KP100Ky kernel	KP100 openeuler2003	KP920-FTs2500_KYV10
Flexible IO Tester - Rand Read - POSIX AIO - Yes - No - 4KB (MB/s)	**36.63**	**1012**	1004	643
Normalized	3.62%	100%	99.21%	63.54%
Standard Deviation	0.2%	1.3%	0.7%	17.9%
Flexible IO Tester - Rand Write - POSIX AIO - Yes - No - 4KB (MB/s)	**1154**	1131	884	**596**
Normalized	100%	98.01%	76.6%	51.65%
Standard Deviation	18.9%	11.3%	1.3%	13.2%
Flexible IO Tester - Rand Write - POSIX AIO - Yes - No - 4KB (IOPS)	**295500**	289583	226333	**152750**
Normalized	100%	98%	76.59%	51.69%
Standard Deviation	18.9%	11.2%	1.4%	13.2%
Flexible IO Tester - Seq Read - POSIX AIO - Yes - No - 4KB (MB/s)	1061	**1103**	1093	**761**
Normalized	96.19%	100%	99.09%	68.99%
Standard Deviation	2.7%	2.2%	3%	11.2%
Flexible IO Tester - Seq Read - POSIX AIO - Yes - No - 4KB (IOPS)	271667	**282000**	280333	**194750**
Normalized	96.34%	100%	99.41%	69.06%
Standard Deviation	2.5%	2.2%	3%	11.2%
Flexible IO Tester - Seq Write - POSIX AIO - Yes - No - 4KB (MB/s)	**1138**	1124	1061	**565**
Normalized	100%	98.77%	93.23%	49.65%

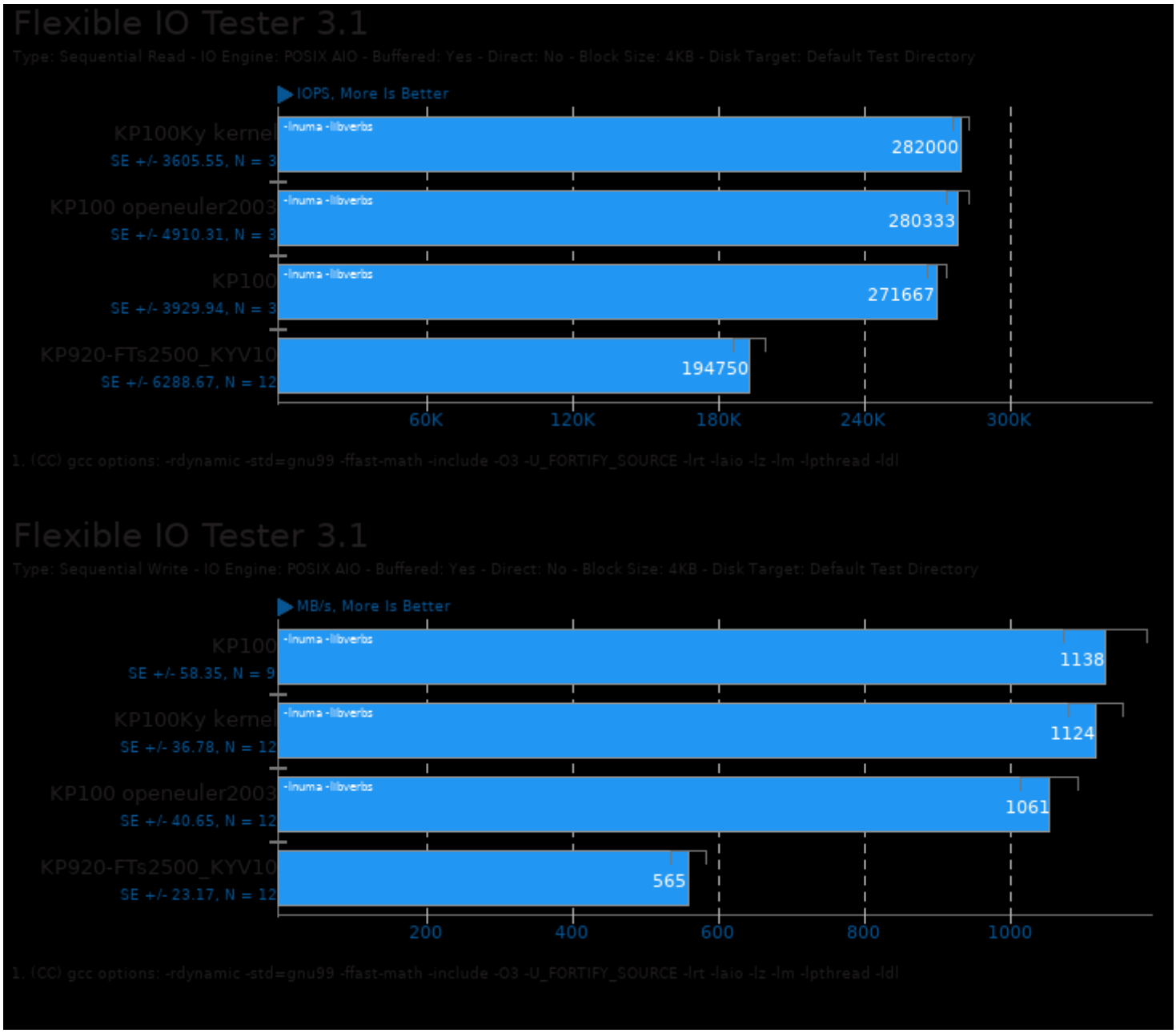
Standard Deviation	15.4%	11.3%	13.3%	14.2%
Flexible IO Tester - Seq Write - POSIX AIO - Yes - No - 4KB (IOPS)	**291556**	287667	271667	**144667**
Normalized	100%	98.67%	93.18%	49.62%
Standard Deviation	15.4%	11.4%	13.3%	14.1%
FS-Mark - 1.F.1.S (Files/s)	**276.00**	**317.20**	315.27	
Normalized	87.01%	100%	99.39%	
Standard Deviation	7.9%	0.2%	0.2%	
FS-Mark - 5.F.1.S.4.T (Files/s)	**314.00**	319.73	**319.87**	
Normalized	98.16%	99.96%	100%	
Standard Deviation	1.8%	0.4%	0.2%	
FS-Mark - 4.F.3.S.D.1.S (Files/s)	**282.47**	**313.03**	311.47	
Normalized	90.24%	100%	99.5%	
Standard Deviation	0.1%	0.2%	0%	
FS-Mark - 1.F.1.S.N.S.F (Files/s)	**1328**	**2838**	2720	
Normalized	46.78%	100%	95.83%	
Standard Deviation	0.4%	0.5%	0.4%	
BlogBench - Read (Final Score)	**1011000**	523704	411120	**364803**
Normalized	100%	51.8%	40.66%	36.08%
Standard Deviation	0.6%	2.5%	0.5%	5.1%
Dbench - 6 (MB/s)	1462	**1645**	1603	**820.131**
Normalized	88.88%	100%	97.47%	49.86%
Standard Deviation	0.5%	0.1%	0.2%	0.6%
IOzone - 64Kb - 512MB - Write Performance (MB/s)	**267.24**	**306.36**	305.97	305.23
Normalized	87.23%	100%	99.87%	99.63%
Standard Deviation	1.4%	1%	1.2%	0.7%
Threaded I/O Tester - Read - 32MB - 4 (MB/s)	10136	**12642**	12512	**5301**
Normalized	80.17%	100%	98.97%	41.93%
Standard Deviation	2.4%	0.7%	1.3%	7.3%
Threaded I/O Tester - Read - 64MB - 4 (MB/s)	11181	**13788**	13575	**4496**
Normalized	81.09%	100%	98.46%	32.61%
Standard Deviation	0.8%	0.4%	0.8%	18.3%
Threaded I/O Tester - Read - 128MB - 4 (MB/s)	11473	**14607**	14153	**4735**
Normalized	78.55%	100%	96.89%	32.42%
Standard Deviation	1.6%	0.8%	1%	17.1%
Threaded I/O Tester - Read - 256MB - 4 (MB/s)	11627	**14781**	14636	**4440**
Normalized	78.67%	100%	99.02%	30.04%
Standard Deviation	8.2%	3.4%	1.2%	18%
Compile Bench - Initial Create (MB/s)	233.95	**247.26**	235.83	**85.39**
Normalized	94.62%	100%	95.38%	34.53%
Standard Deviation	0.8%	2.3%	0.2%	0.4%
PostMark - D.T.P (TPS)	3205	**4286**	4076	**2451**
Normalized	74.78%	100%	95.1%	57.19%
Standard Deviation	1.3%	1%	0.9%	1%
RAMspeed SMP - Add - Integer (MB/s)	**24093**	22656	23018	**11510**
Normalized	100%	94.04%	95.54%	47.77%
RAMspeed SMP - Copy - Integer	23671	**23729**	23724	**12837**
Normalized	99.75%	100%	99.98%	54.1%
RAMspeed SMP - Scale - Integer (MB/s)	16602	16756	**17032**	**12816**

KP100-UOS-KyV10-openeuler2003

Normalized	97.47%	98.38%	100%	75.25%
RAMspeed SMP - Triad - Integer	**17457**	14121	14375	**4936**
Normalized	100%	80.89%	82.35%	28.27%
RAMspeed SMP - Average - Integer (MB/s)	**20507**	19280	19521	**10797**
Normalized	100%	94.02%	95.19%	52.65%
Stream - Copy (MB/s)	**66311**	66900	66882	**114700**
Normalized	57.81%	58.33%	58.31%	100%
Standard Deviation	1.3%	0.7%	0.3%	7.4%
Stream - Scale (MB/s)	70683	69882	**67798**	**122407**
Normalized	57.74%	57.09%	55.39%	100%
Standard Deviation	0.9%	1%	9.3%	7.6%
Stream - Triad (MB/s)	70870	71070	**69018**	**119218**
Normalized	59.45%	59.61%	57.89%	100%
Standard Deviation	1%	1%	7.9%	7.8%
Stream - Add (MB/s)	71051	71269	**68794**	**119456**
Normalized	59.48%	59.66%	57.59%	100%
Standard Deviation	1%	1.3%	8.3%	6.9%
Timed MAFFT Alignment - M.S.A (sec)	3.66	**3.15**	3.26	**4.943**
Normalized	86.07%	100%	96.63%	63.73%
Standard Deviation	6.9%	10.9%	6.9%	7.6%
CacheBench - Read (MB/s)	4956	**4958**	4956	**4004**
Normalized	99.96%	100%	99.97%	80.76%
Standard Deviation	0%	0%	0%	0%
CacheBench - Write (MB/s)	18724	18752	**18938**	**7805**
Normalized	98.87%	99.02%	100%	41.22%
Standard Deviation	0.1%	0%	0.2%	0.3%
CacheBench - R.M.W (MB/s)	19321	**19334**	19324	**15598**
Normalized	99.93%	100%	99.95%	80.68%
Standard Deviation	0%	0%	0%	0%
John The Ripper - Blowfish (Real C/S)	**33240**	35132	34854	**40143**
Normalized	82.8%	87.52%	86.82%	100%
Standard Deviation	3.3%	0.2%	0.7%	9.1%
7-Zip Compression - C.S.T (MIPS)	103511	**118820**	111422	**102859**
Normalized	87.12%	100%	93.77%	86.57%
Standard Deviation	2.1%	1.4%	3.5%	2.4%
C-Ray - Total Time - 4.1.R.P.P (sec)	27.01	**27.19**	27.14	**14.913**
Normalized	55.21%	54.85%	54.95%	100%
Standard Deviation	0.3%	0.2%	0.2%	0.7%
PostgreSQL pgbench - s.f.B.T - r.t.S.T - run-mode:Read Only (TPS)	11827	**14449**	13601	**6419**
Normalized	81.85%	100%	94.13%	44.42%
Standard Deviation	1.8%	2%	3.4%	8.4%
Sysbench - CPU (Events/sec)	213205	**212654**	212835	**266788**
Normalized	79.92%	79.71%	79.78%	100%
Standard Deviation	0.6%	0.5%	0.9%	0.9%
PHPBench - P.B.S (Score)	302121	**306102**	301419	**165901**
Normalized	98.7%	100%	98.47%	54.2%
Standard Deviation	2.3%	0.2%	3%	0.2%
Flexible IO Tester - Rand Read - POSIX AIO - Yes - No - 4KB (IOPS)		**259333**	257000	**164500**
Normalized		100%	99.1%	63.43%
Standard Deviation		1.4%	0.7%	17.9%

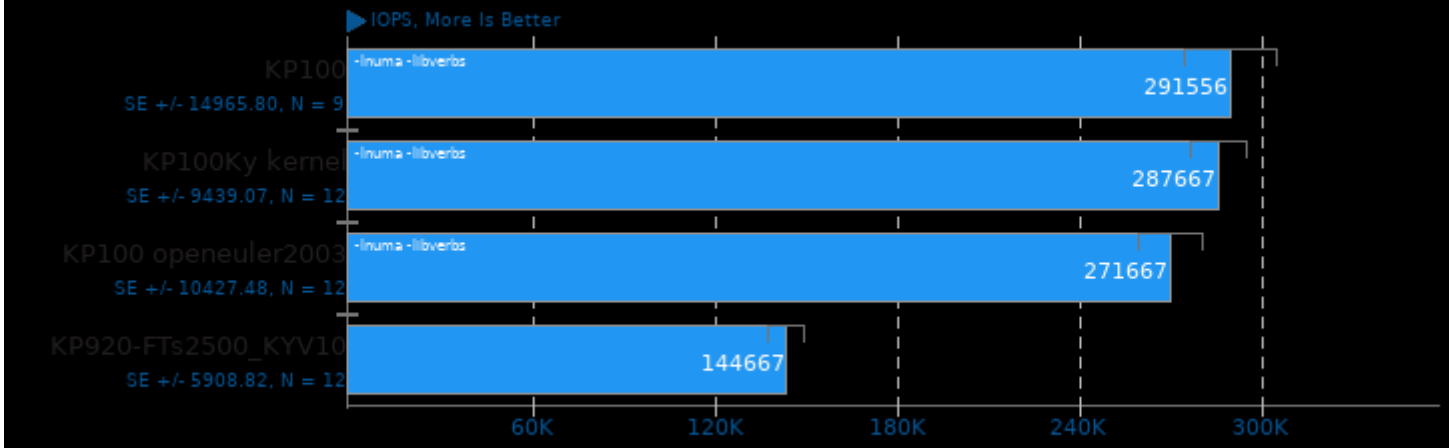

Flexible IO Tester 3.1
Type: Random Read - IO Engine: POSIX AIO - Buffered: Yes - Direct: No - Block Size: 4KB - Disk Target: Default Test Directory
MB/s, More Is Better
KP100Ky kernel
SE +/- 7.31, N = 3
-lnuma -libverbs
1012.00
KP100 openeuler2003
SE +/- 4.04, N = 3
-lnuma -libverbs
1004.00
KP920-FTs2500_KYV10
SE +/- 33.13, N = 12
643.00
KP100
SE +/- 0.03, N = 3
36.63
200
400
600
800
1000
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -U_FORTIFY_SOURCE -lrt -laio -lz -lm -lpthread -ldl
Flexible IO Tester 3.1
Type: Random Write - IO Engine: POSIX AIO - Buffered: Yes - Direct: No - Block Size: 4KB - Disk Target: Default Test Directory
MB/s, More Is Better
KP100
SE +/- 62.84, N = 12
-lnuma -libverbs
1154
KP100Ky kernel
SE +/- 36.78, N = 12
-lnuma -libverbs
1131
KP100 openeuler2003
SE +/- 6.69, N = 3
-lnuma -libverbs
884
KP920-FTs2500_KYV10
SE +/- 22.76, N = 12
596
200
400
600
800
1000
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -U_FORTIFY_SOURCE -lrt -laio -lz -lm -lpthread -ldl


Flexible IO Tester 3.1
Type: Random Write - IO Engine: POSIX AIO - Buffered: Yes - Direct: No - Block Size: 4KB - Disk Target: Default Test Directory
IOPS, More Is Better
KP100
SE +/- 16137.43, N = 12
KP100Ky kernel
SE +/- 9369.08, N = 12
KP100 openeuler2003
SE +/- 1855.92, N = 3
KP920-FTs2500_KYV10
SE +/- 5828.52, N = 12
-lnuma -libverbs
295500
289583
226333
152750
60K
120K
180K
240K
300K
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -U_FORTIFY_SOURCE -lrt -laio -lz -lm -lpthread -ldl
Flexible IO Tester 3.1
Type: Sequential Read - IO Engine: POSIX AIO - Buffered: Yes - Direct: No - Block Size: 4KB - Disk Target: Default Test Directory
MB/s, More Is Better
KP100Ky kernel
SE +/- 13.78, N = 3
KP100 openeuler2003
SE +/- 19.10, N = 3
KP100
SE +/- 16.41, N = 3
KP920-FTs2500_KYV10
SE +/- 24.56, N = 12
-lnuma -libverbs
1103
1093
1061
761
200
400
600
800
1000
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -U_FORTIFY_SOURCE -lrt -laio -lz -lm -lpthread -ldl


Flexible IO Tester 3.1
Type: Sequential Read - IO Engine: POSIX AIO - Buffered: Yes - Direct: No - Block Size: 4KB - Disk Target: Default Test Directory
IOPS, More Is Better
KP100Ky kernel
SE +/- 3605.55, N = 3
KP100 openeuler2003
SE +/- 4910.31, N = 3
KP100
SE +/- 3929.94, N = 3
KP920-FTs2500_KYV10
SE +/- 6288.67, N = 12
-lnuma -libverbs
282000
280333
271667
194750
60K
120K
180K
240K
300K
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -U_FORTIFY_SOURCE -lrt -laio -lz -lm -lpthread -ldl
Flexible IO Tester 3.1
Type: Sequential Write - IO Engine: POSIX AIO - Buffered: Yes - Direct: No - Block Size: 4KB - Disk Target: Default Test Directory
MB/s, More Is Better
KP100
SE +/- 58.35, N = 9
KP100Ky kernel
SE +/- 36.78, N = 12
KP100 openeuler2003
SE +/- 40.65, N = 12
KP920-FTs2500_KYV10
SE +/- 23.17, N = 12
-lnuma -libverbs
1138
1124
1061
565
200
400
600
800
1000
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -U_FORTIFY_SOURCE -lrt -laio -lz -lm -lpthread -ldl

Flexible IO Tester 3.1

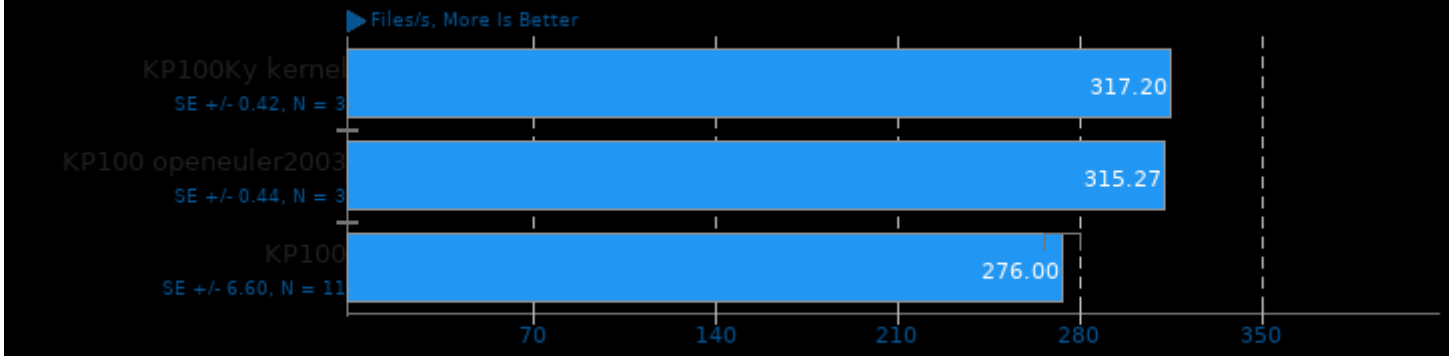
Type: Sequential Write - IO Engine: POSIX AIO - Buffered: Yes - Direct: No - Block Size: 4KB - Disk Target: Default Test Directory



1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -U_FORTIFY_SOURCE -lrt -laio -lz -lm -lpthread -ldl

FS-Mark 3.3

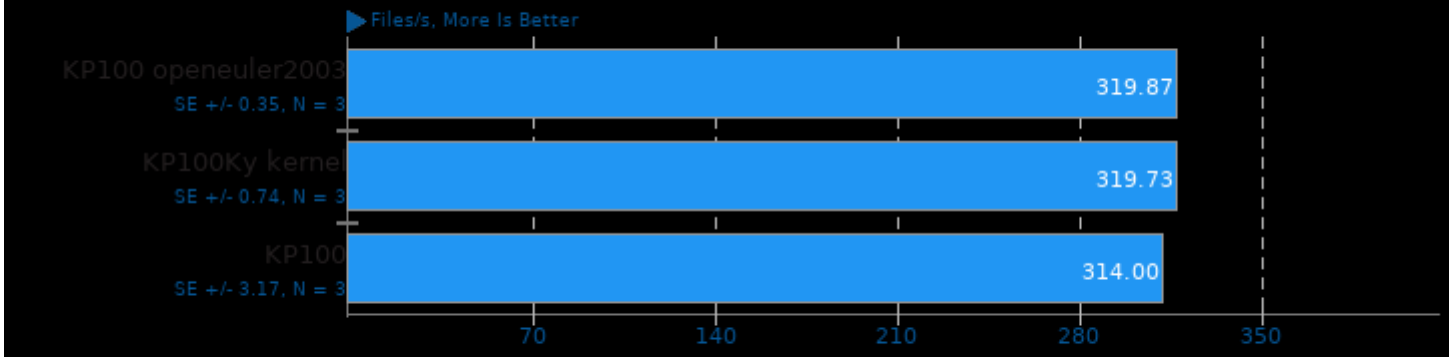
Test: 1000 Files, 1MB Size



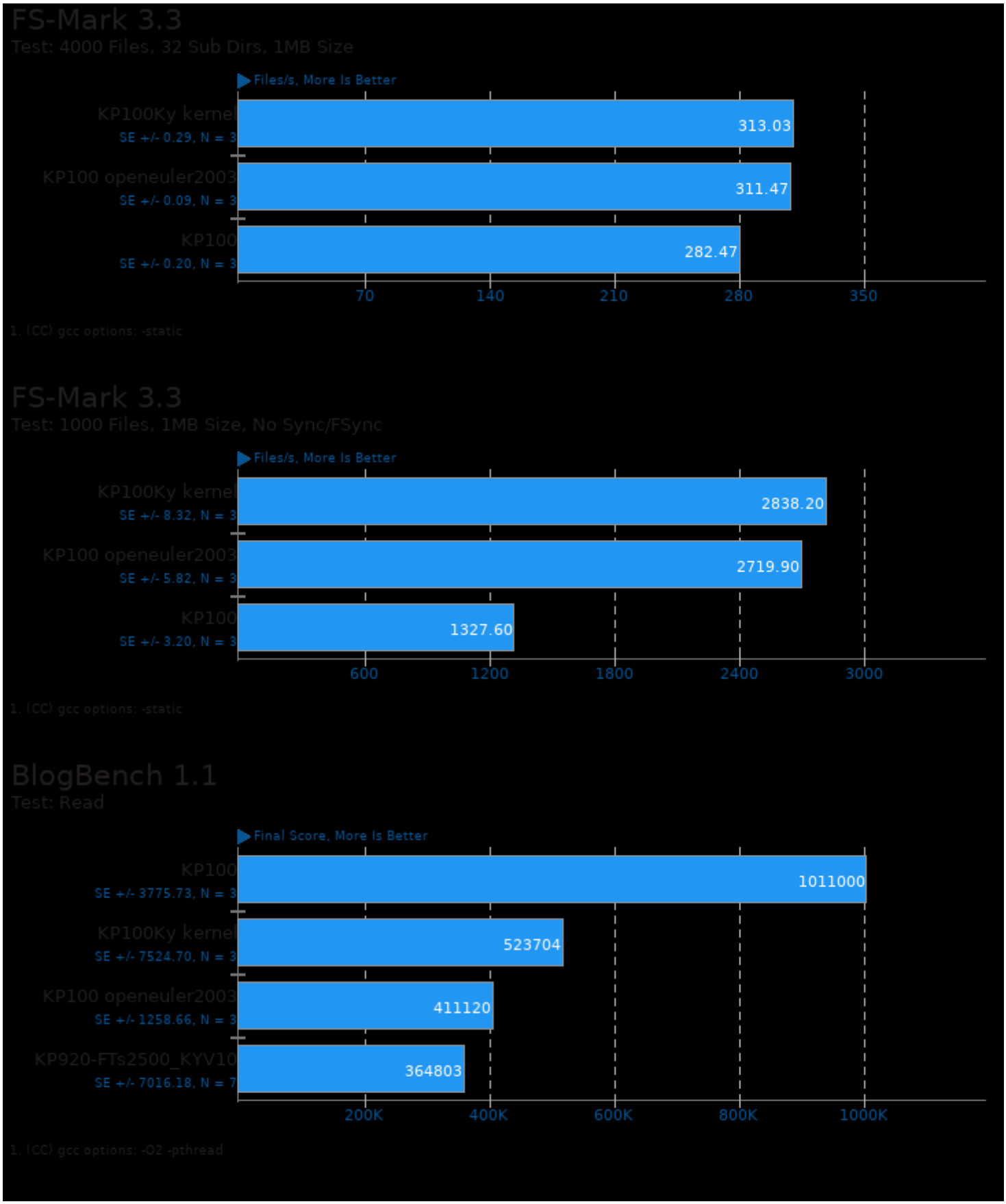
1. (CC) gcc options: -static

FS-Mark 3.3

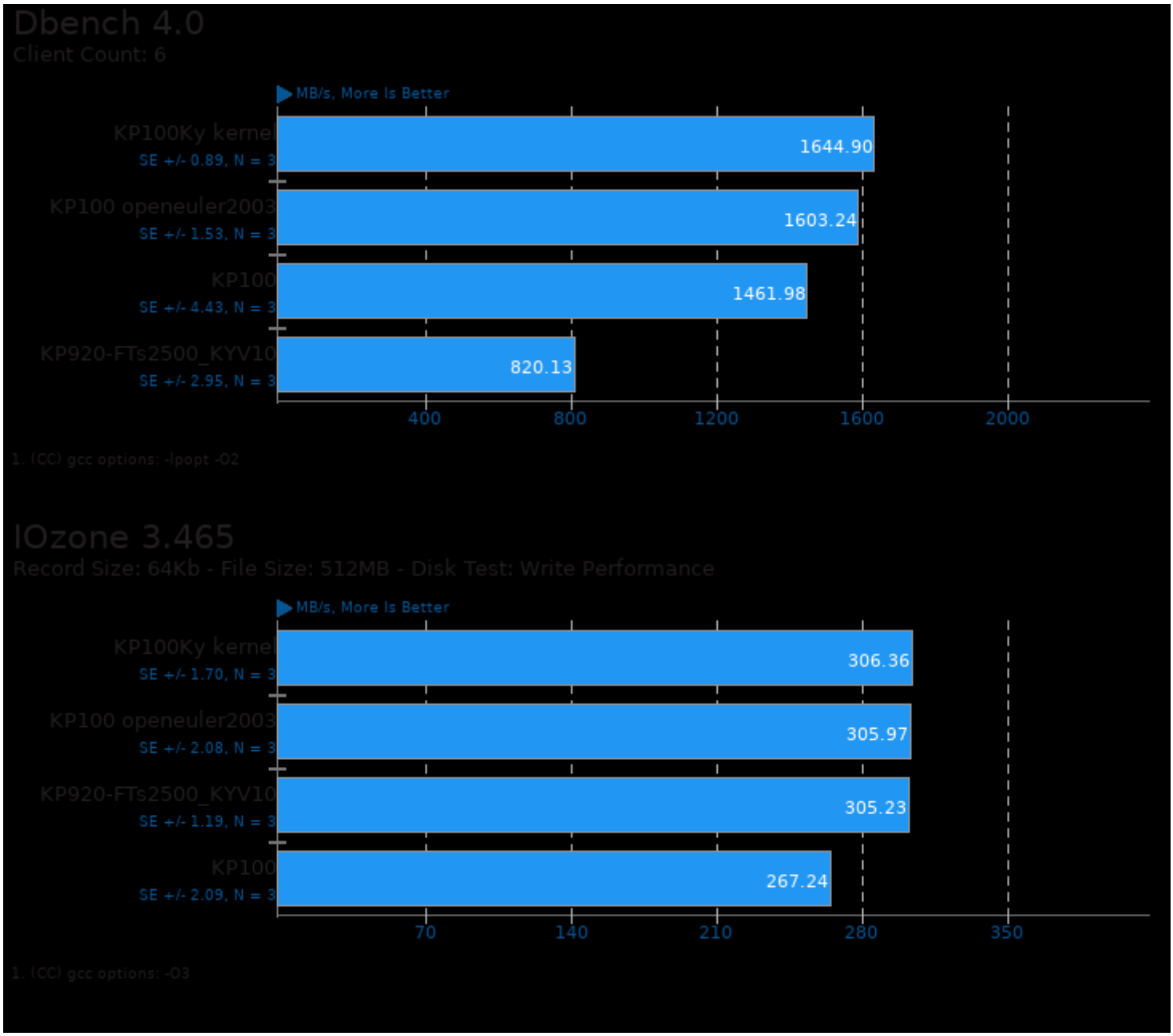
Test: 5000 Files, 1MB Size, 4 Threads

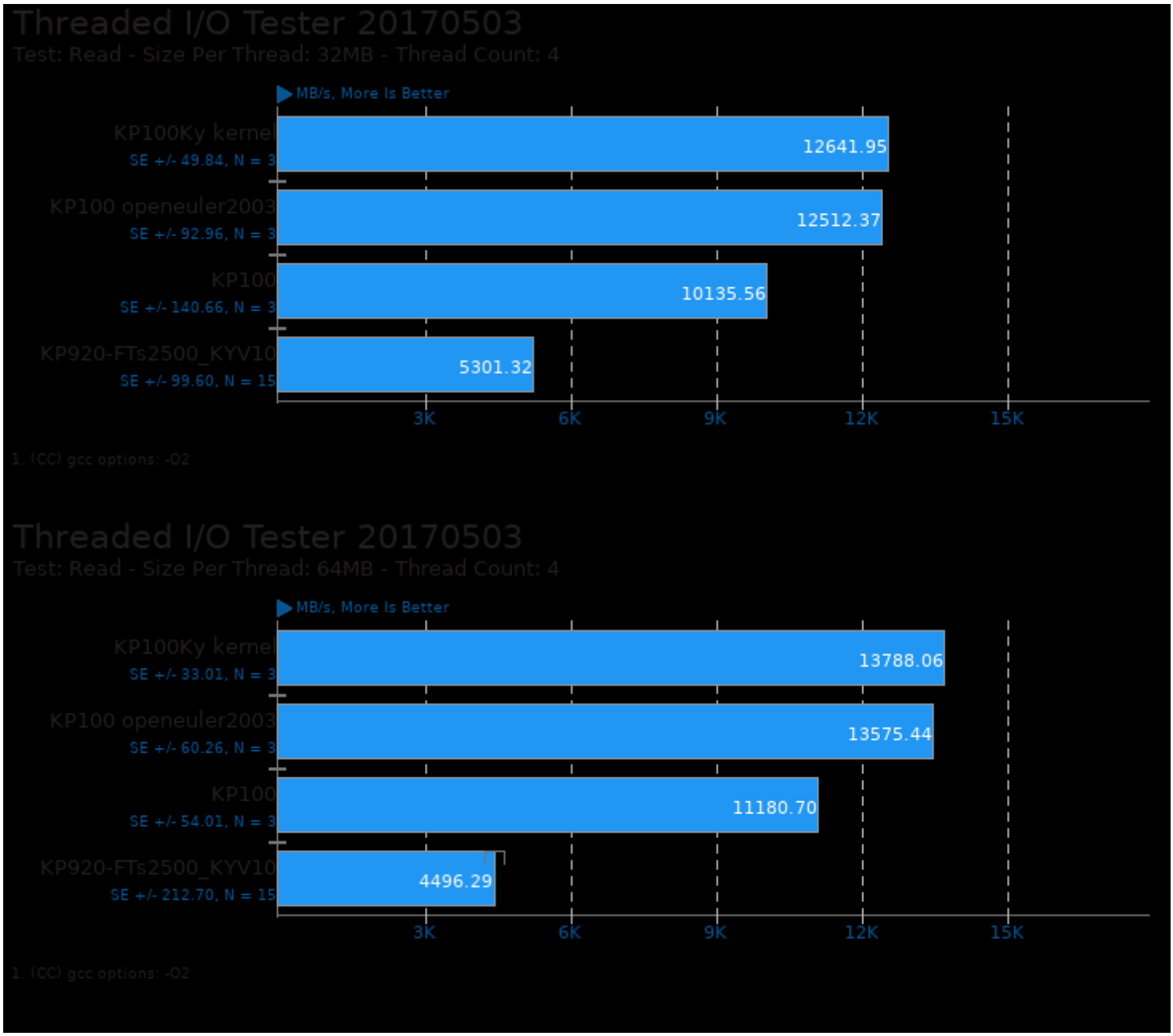


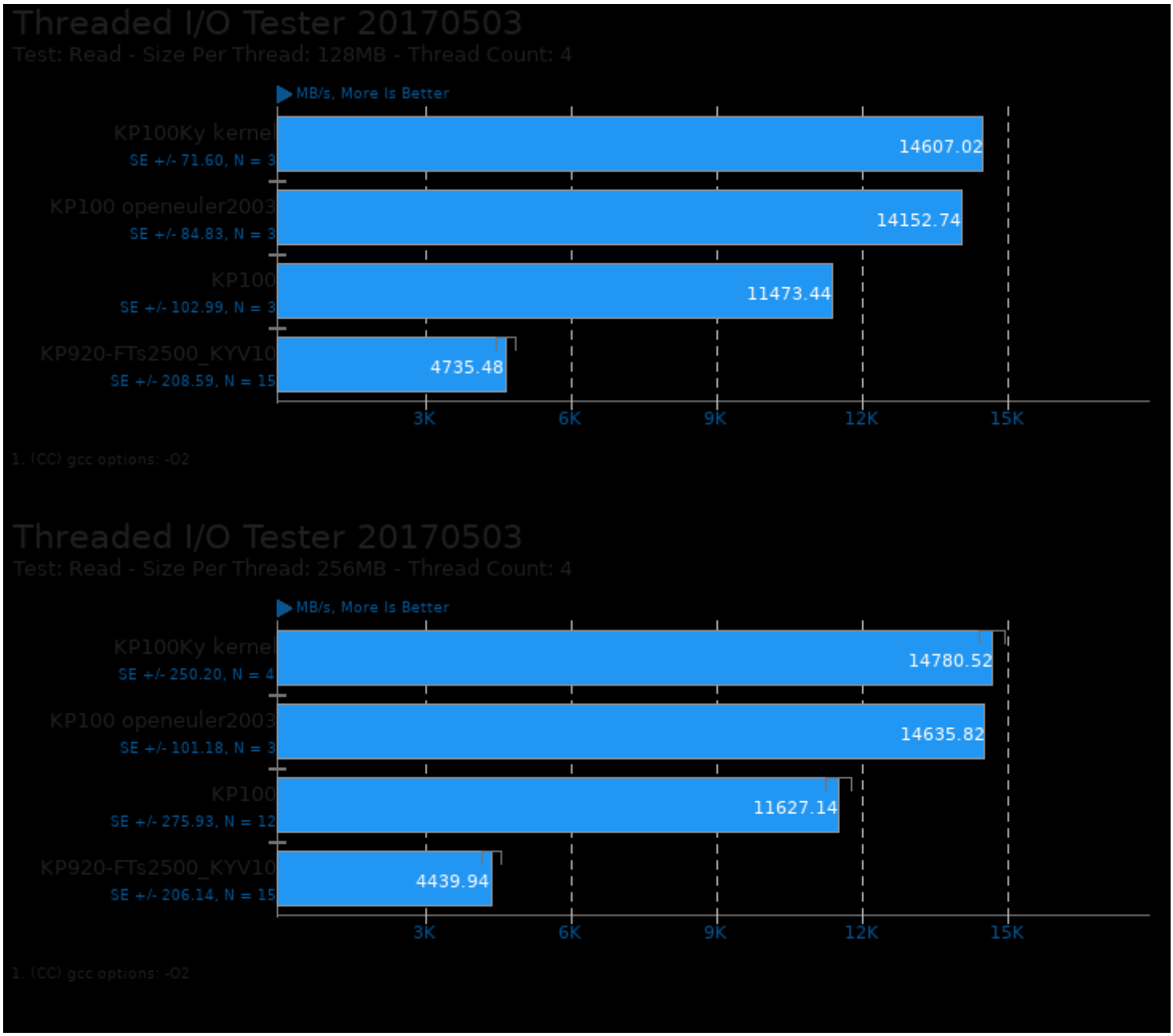
1. (CC) gcc options: -static


FS-Mark 3.3
Test: 4000 Files, 32 Sub Dirs, 1MB Size
Files/s, More Is Better
KP100Ky kernel
SE +/- 0.29, N = 3
313.03
KP100 openeuler2003
SE +/- 0.09, N = 3
311.47
KP100
SE +/- 0.20, N = 3
282.47
70
140
210
280
350
1. (CC) gcc options: -static
FS-Mark 3.3
Test: 1000 Files, 1MB Size, No Sync/FSync
Files/s, More Is Better
KP100Ky kernel
SE +/- 8.32, N = 3
2838.20
KP100 openeuler2003
SE +/- 5.82, N = 3
2719.90
KP100
SE +/- 3.20, N = 3
1327.60
600
1200
1800
2400
3000
1. (CC) gcc options: -static
BlogBench 1.1
Test: Read
Final Score, More Is Better
KP100
SE +/- 3775.73, N = 3
1011000
KP100Ky kernel
SE +/- 7524.70, N = 3
523704
KP100 openeuler2003
SE +/- 1258.66, N = 3
411120
KP920-FTs2500_KYV10
SE +/- 7016.18, N = 7
364803
200K
400K
600K
800K
1000K
1. (CC) gcc options: -O2 -pthread

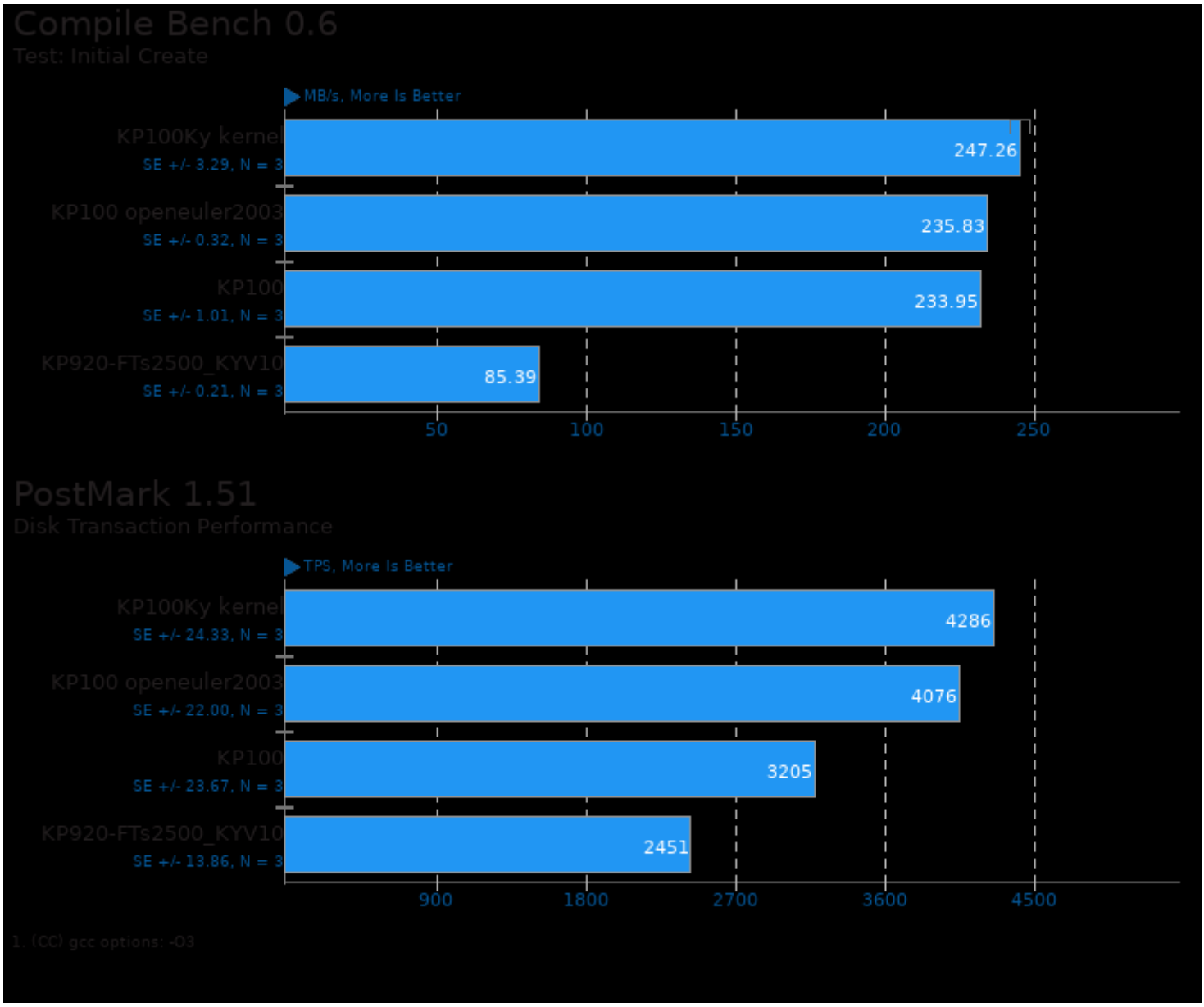
KP100-UOS-KyV10-openeuler2003

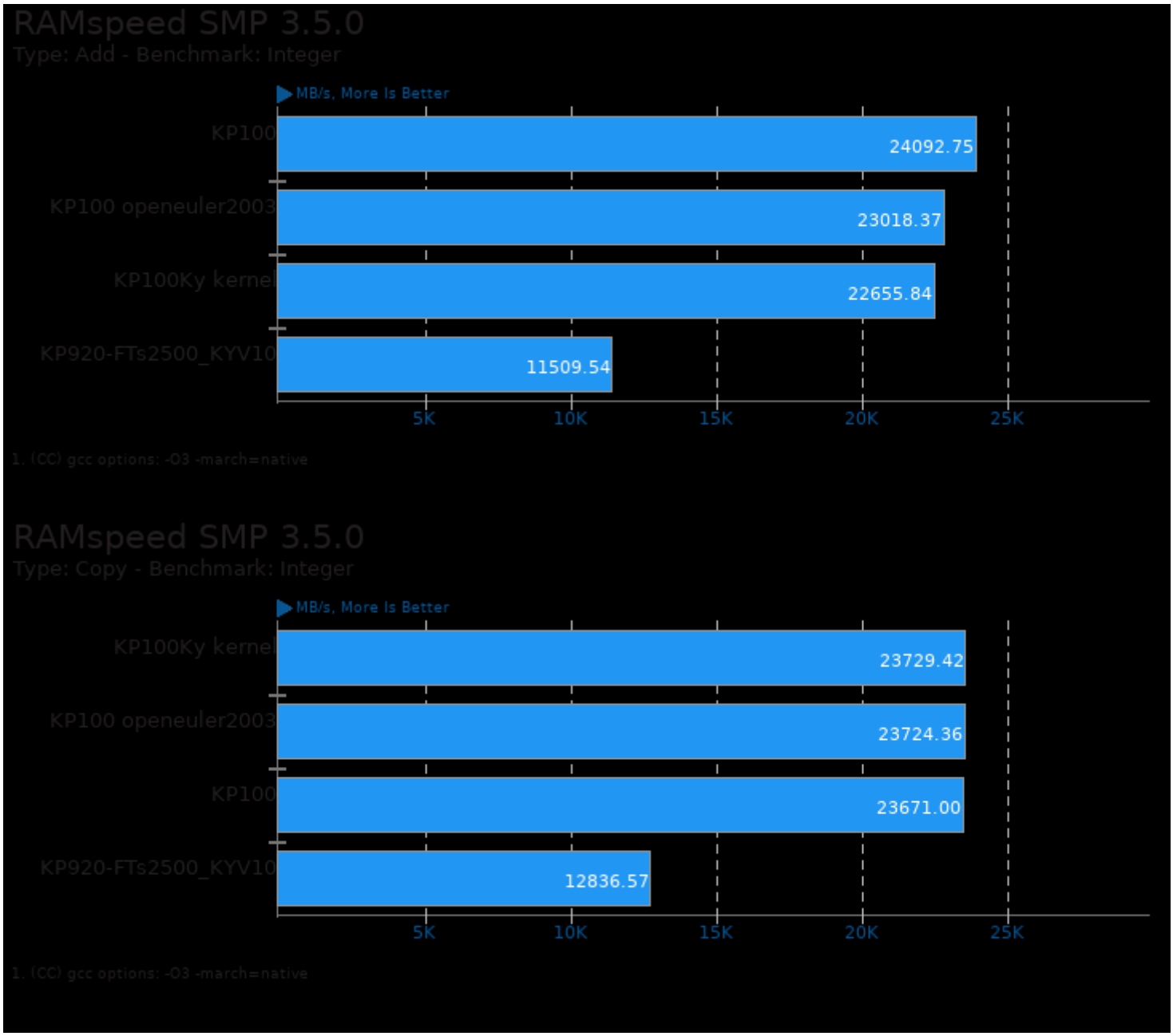


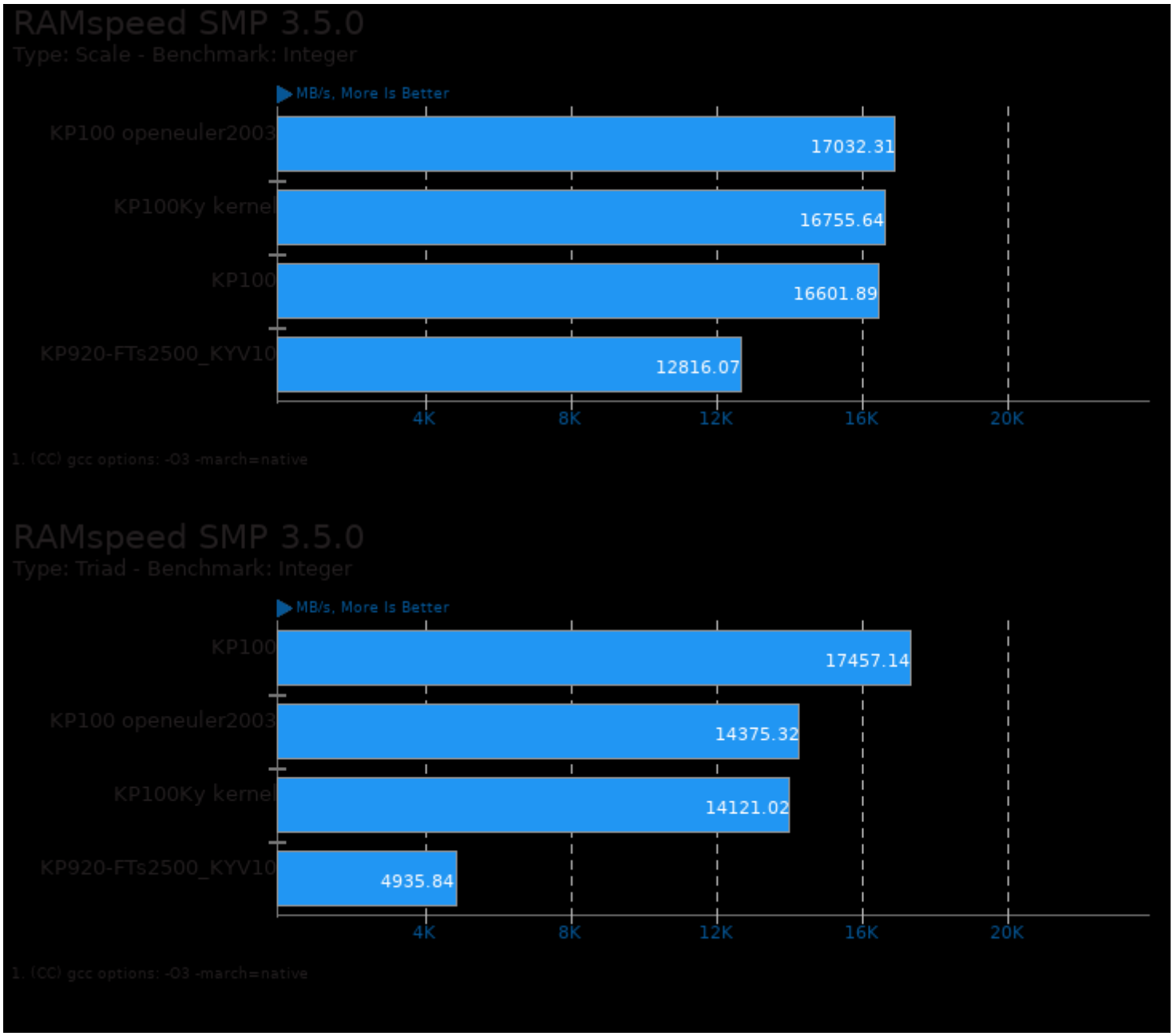

Threaded I/O Tester 20170503
Test: Read - Size Per Thread: 32MB - Thread Count: 4
MB/s, More Is Better
KP100Ky kernel
SE +/- 49.84, N = 3
12641.95
KP100 openeuler2003
SE +/- 92.96, N = 3
12512.37
KP100
SE +/- 140.66, N = 3
10135.56
KP920-FTs2500_KYV10
SE +/- 99.60, N = 15
5301.32
3K
6K
9K
12K
15K
1. (CC) gcc options: -O2
Threaded I/O Tester 20170503
Test: Read - Size Per Thread: 64MB - Thread Count: 4
MB/s, More Is Better
KP100Ky kernel
SE +/- 33.01, N = 3
13788.06
KP100 openeuler2003
SE +/- 60.26, N = 3
13575.44
KP100
SE +/- 54.01, N = 3
11180.70
KP920-FTs2500_KYV10
SE +/- 212.70, N = 15
4496.29
3K
6K
9K
12K
15K
1. (CC) gcc options: -O2

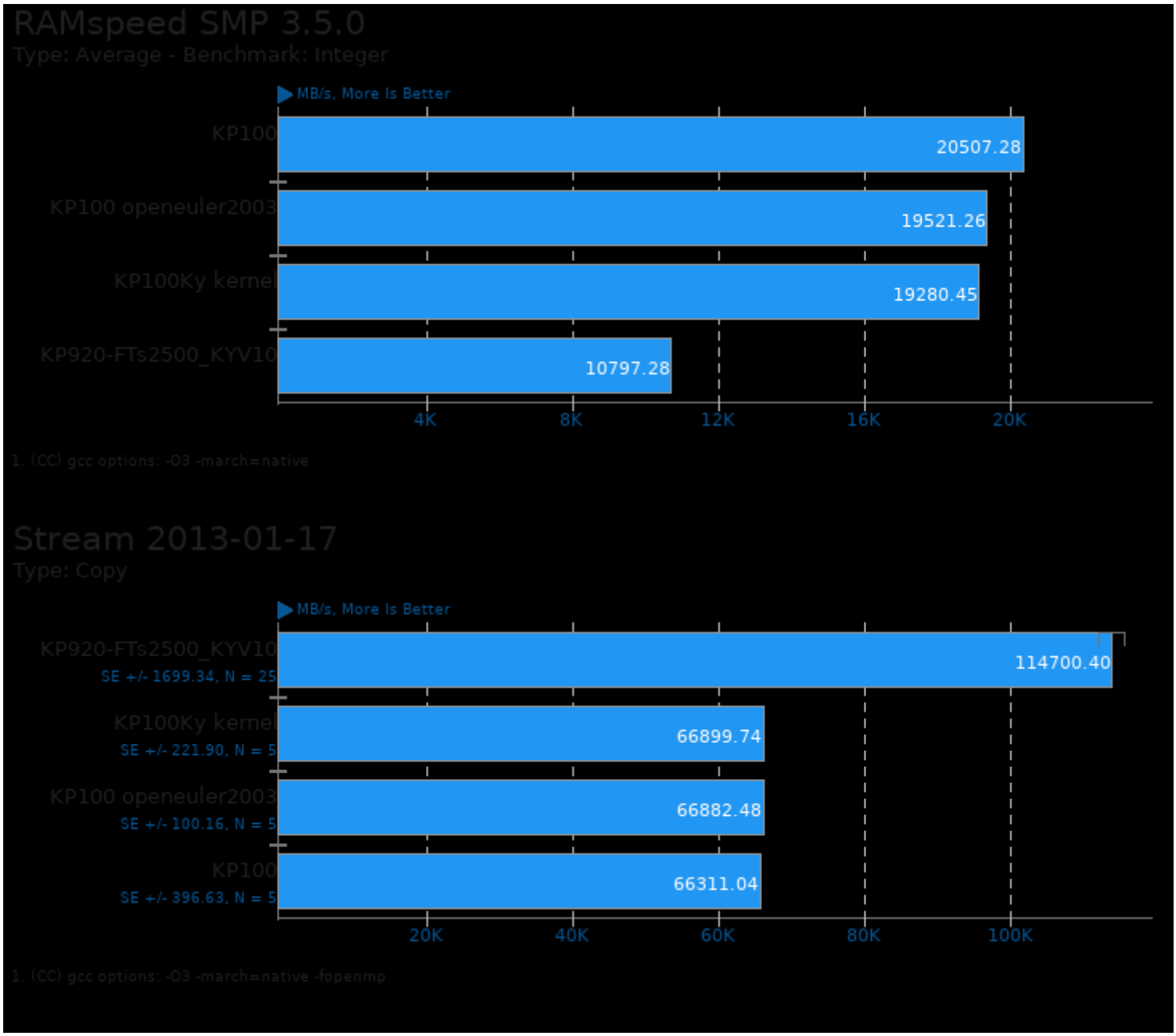

Threaded I/O Tester 20170503
Test: Read - Size Per Thread: 128MB - Thread Count: 4
MB/s, More Is Better
KP100Ky kernel
SE +/- 71.60, N = 3
14607.02
KP100 openeuler2003
SE +/- 84.83, N = 3
14152.74
KP100
SE +/- 102.99, N = 3
11473.44
KP920-FTs2500_KYV10
SE +/- 208.59, N = 15
4735.48
3K
6K
9K
12K
15K
1. (CC) gcc options: -O2
Threaded I/O Tester 20170503
Test: Read - Size Per Thread: 256MB - Thread Count: 4
MB/s, More Is Better
KP100Ky kernel
SE +/- 250.20, N = 4
14780.52
KP100 openeuler2003
SE +/- 101.18, N = 3
14635.82
KP100
SE +/- 275.93, N = 12
11627.14
KP920-FTs2500_KYV10
SE +/- 206.14, N = 15
4439.94
3K
6K
9K
12K
15K
1. (CC) gcc options: -O2

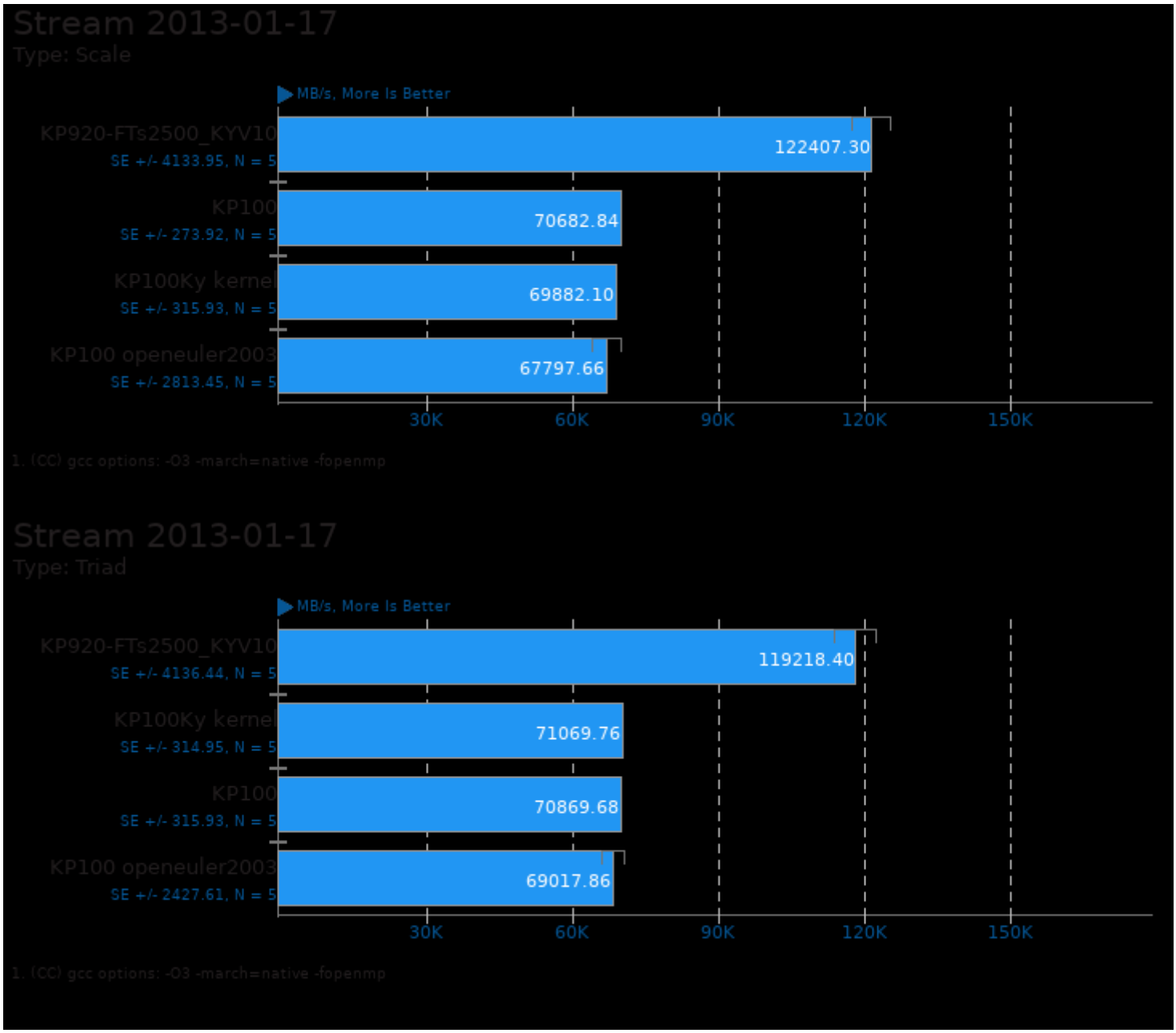
KP100-UOS-KyV10-openeuler2003

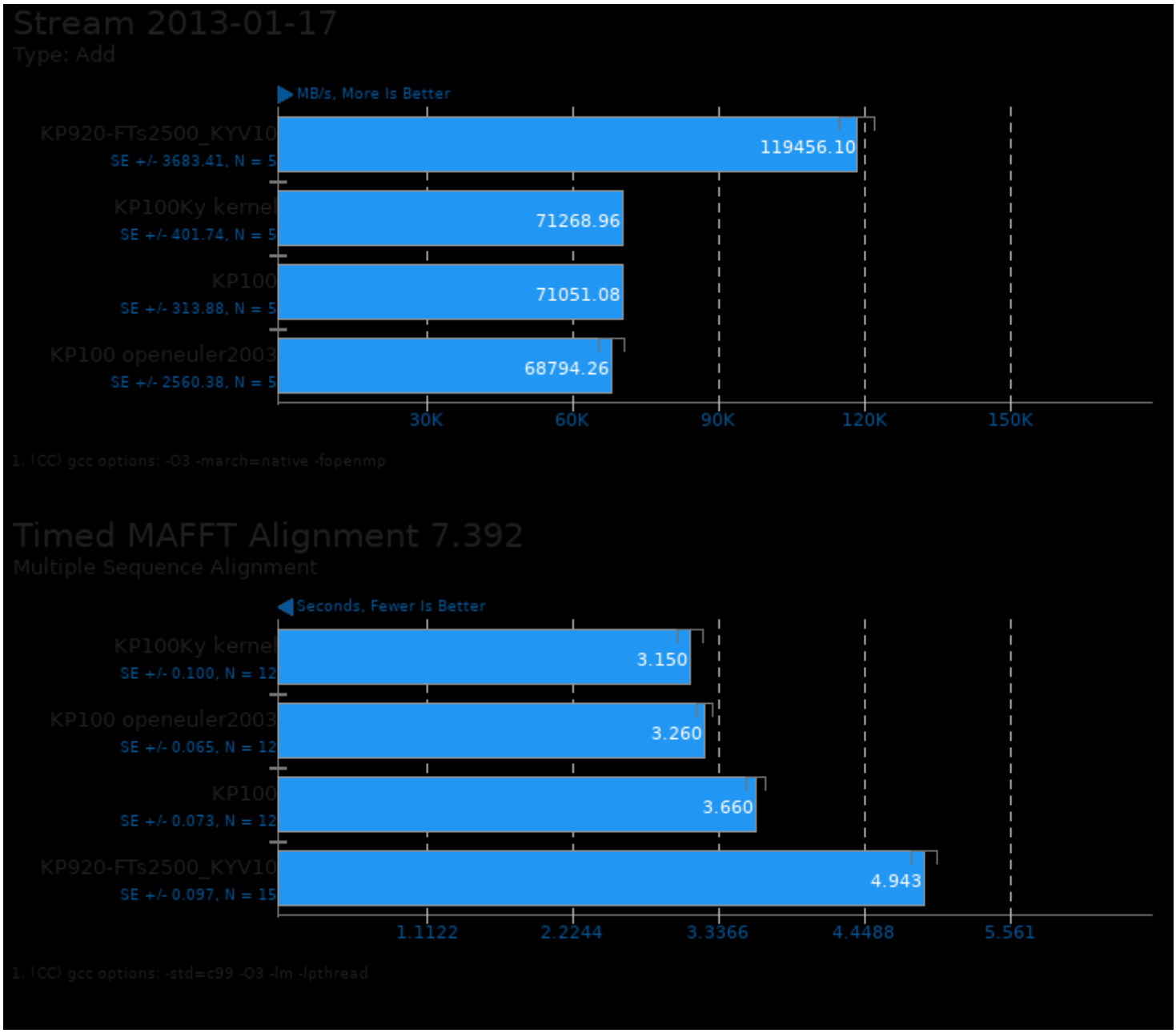



RAMspeed SMP 3.5.0
Type: Add - Benchmark: Integer
MB/s, More Is Better
KP100
KP100 openeuler2003
KP100Ky kernel
KP920-FTs2500_KYV10
24092.75
23018.37
22655.84
11509.54
5K
10K
15K
20K
25K
1. (CC) gcc options: -O3 -march=native
RAMspeed SMP 3.5.0
Type: Copy - Benchmark: Integer
MB/s, More Is Better
KP100Ky kernel
KP100 openeuler2003
KP100
KP920-FTs2500_KYV10
23729.42
23724.36
23671.00
12836.57
5K
10K
15K
20K
25K
1. (CC) gcc options: -O3 -march=native

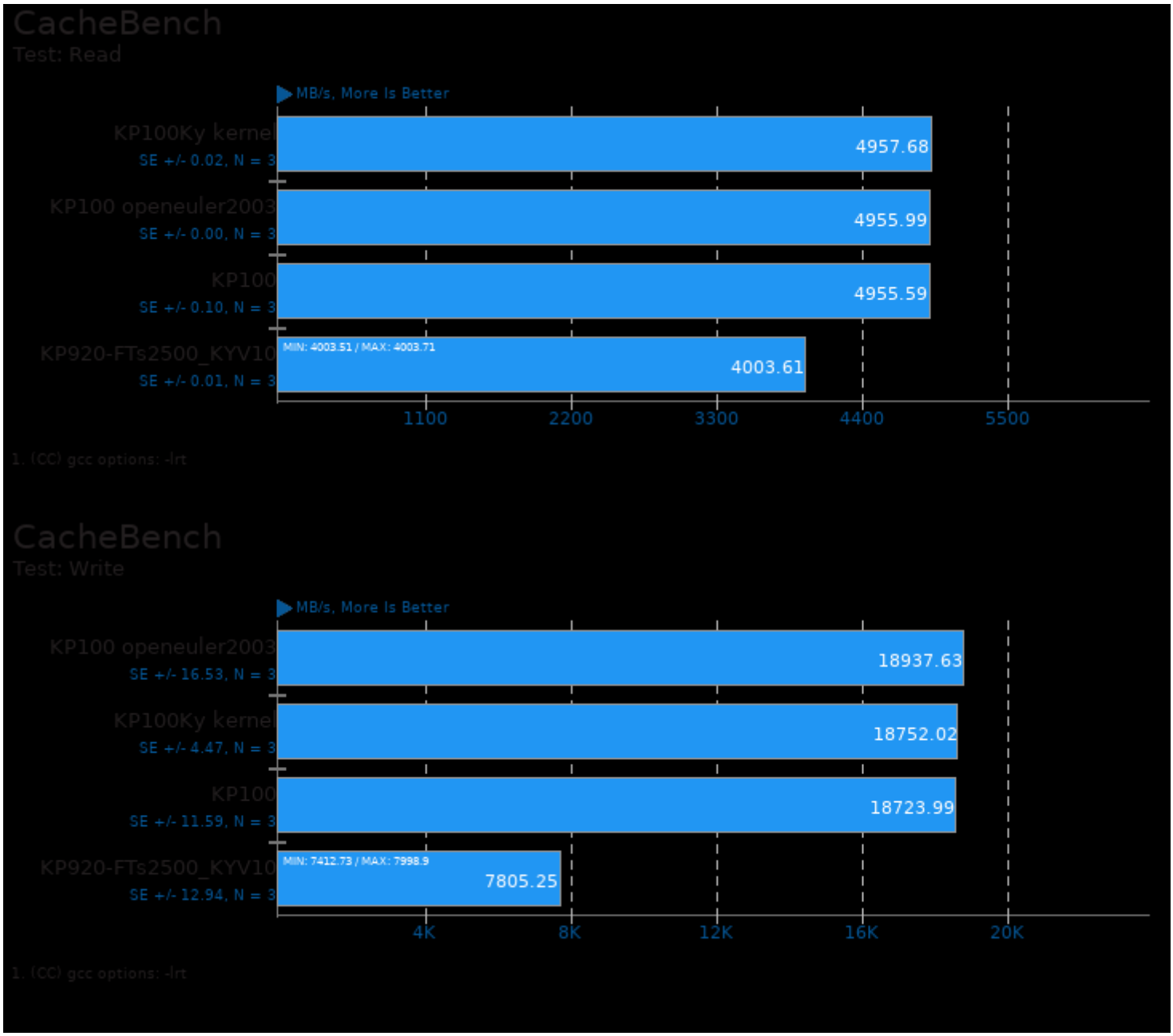

RAMspeed SMP 3.5.0
Type: Scale - Benchmark: Integer
MB/s, More Is Better
KP100 openeuler2003
17032.31
KP100Ky kernel
16755.64
KP100
16601.89
KP920-FTs2500_KYV10
12816.07
4K
8K
12K
16K
20K
1. (CC) gcc options: -O3 -march=native
RAMspeed SMP 3.5.0
Type: Triad - Benchmark: Integer
MB/s, More Is Better
KP100
17457.14
KP100 openeuler2003
14375.32
KP100Ky kernel
14121.02
KP920-FTs2500_KYV10
4935.84
4K
8K
12K
16K
20K
1. (CC) gcc options: -O3 -march=native

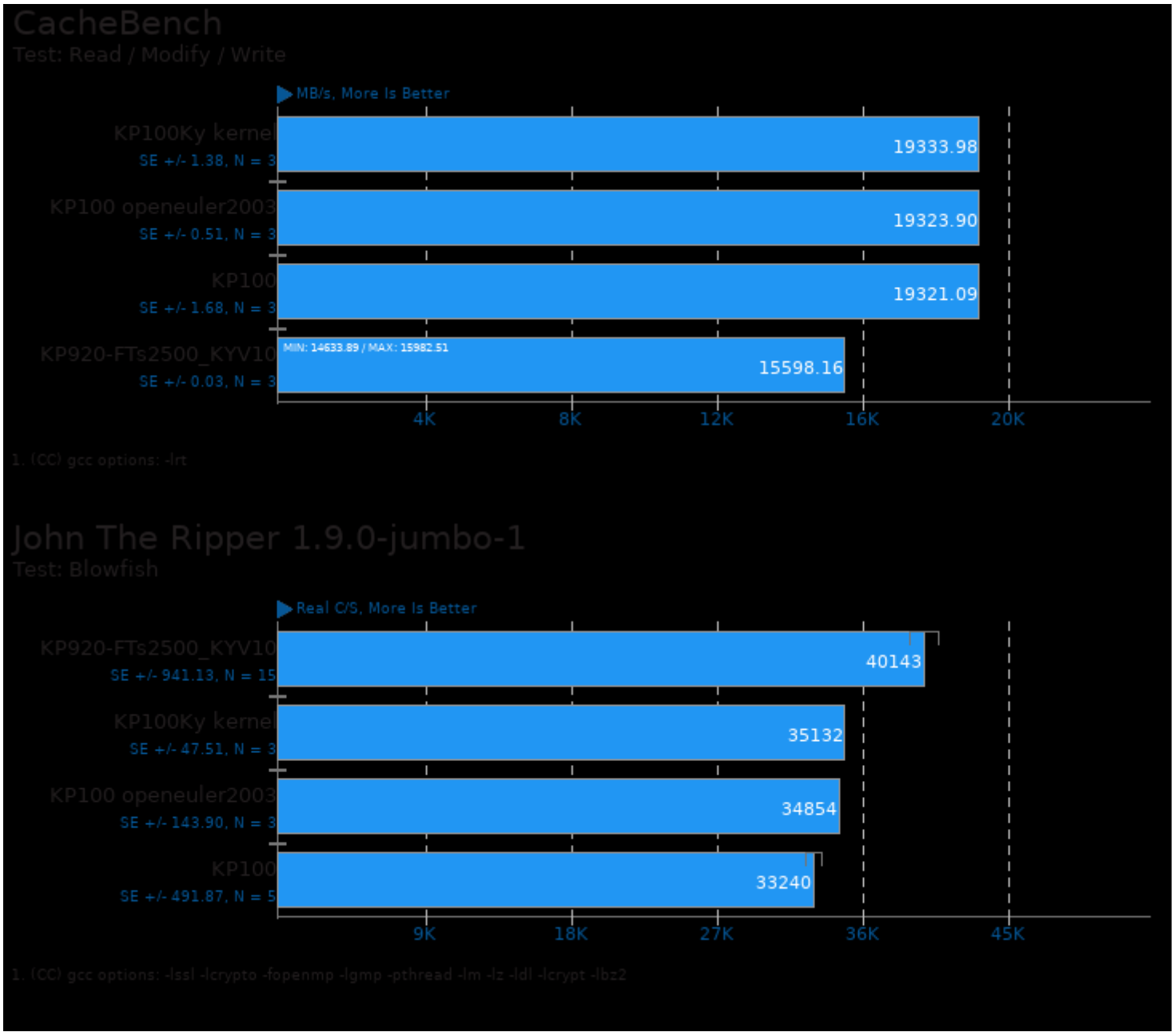

RAMspeed SMP 3.5.0
Type: Average - Benchmark: Integer
MB/s, More Is Better
KP100
20507.28
KP100 openeuler2003
19521.26
KP100Ky kernel
19280.45
KP920-FTs2500_KYV10
10797.28
4K
8K
12K
16K
20K
1. (CC) gcc options: -O3 -march=native
Stream 2013-01-17
Type: Copy
MB/s, More Is Better
KP920-FTs2500_KYV10
SE +/- 1699.34, N = 25
114700.40
KP100Ky kernel
SE +/- 221.90, N = 5
66899.74
KP100 openeuler2003
SE +/- 100.16, N = 5
66882.48
KP100
SE +/- 396.63, N = 5
66311.04
20K
40K
60K
80K
100K
1. (CC) gcc options: -O3 -march=native -fopenmp

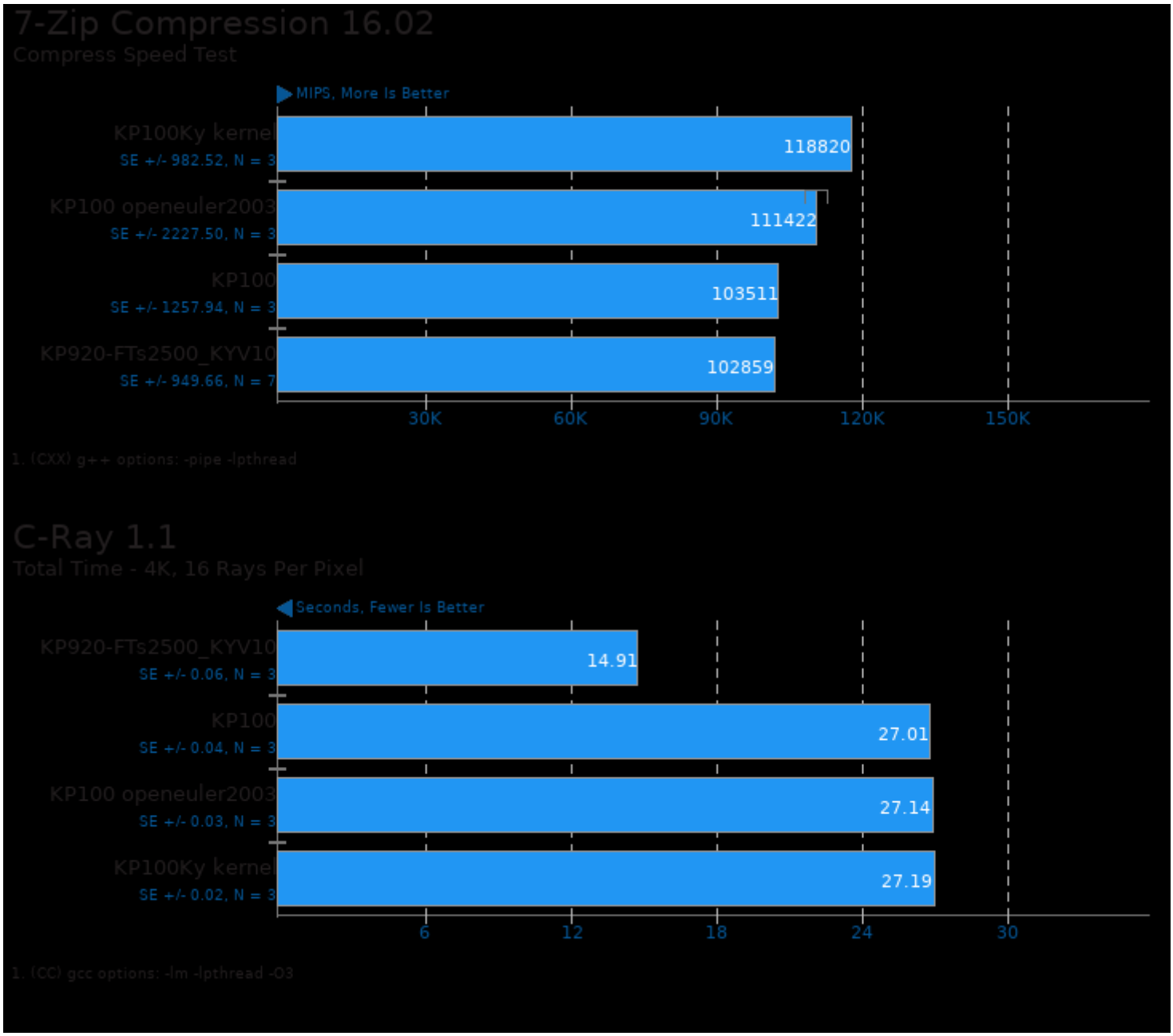

Stream 2013-01-17
Type: Scale
MB/s, More Is Better
KP920-FTs2500_KYV10
SE +/- 4133.95, N = 5
122407.30
KP100
SE +/- 273.92, N = 5
70682.84
KP100Ky kernel
SE +/- 315.93, N = 5
69882.10
KP100 openeuler2003
SE +/- 2813.45, N = 5
67797.66
30K
60K
90K
120K
150K
1. (CC) gcc options: -O3 -march=native -fopenmp
Stream 2013-01-17
Type: Triad
MB/s, More Is Better
KP920-FTs2500_KYV10
SE +/- 4136.44, N = 5
119218.40
KP100Ky kernel
SE +/- 314.95, N = 5
71069.76
KP100
SE +/- 315.93, N = 5
70869.68
KP100 openeuler2003
SE +/- 2427.61, N = 5
69017.86
30K
60K
90K
120K
150K
1. (CC) gcc options: -O3 -march=native -fopenmp


Stream 2013-01-17
Type: Add
MB/s, More Is Better
KP920-FTs2500_KYV10
SE +/- 3683.41, N = 5
119456.10
KP100Ky kernel
SE +/- 401.74, N = 5
71268.96
KP100
SE +/- 313.88, N = 5
71051.08
KP100 openeuler2003
SE +/- 2560.38, N = 5
68794.26
30K
60K
90K
120K
150K
1. (CC) gcc options: -O3 -march=native -fopenmp
Timed MAFFT Alignment 7.392
Multiple Sequence Alignment
Seconds, Fewer Is Better
KP100Ky kernel
SE +/- 0.100, N = 12
3.150
KP100 openeuler2003
SE +/- 0.065, N = 12
3.260
KP100
SE +/- 0.073, N = 12
3.660
KP920-FTs2500_KYV10
SE +/- 0.097, N = 15
4.943
1.1122
2.2244
3.3366
4.4488
5.561
1. (CC) gcc options: -std=c99 -O3 -lm -lpthread

KP100-UOS-KyV10-openeuler2003

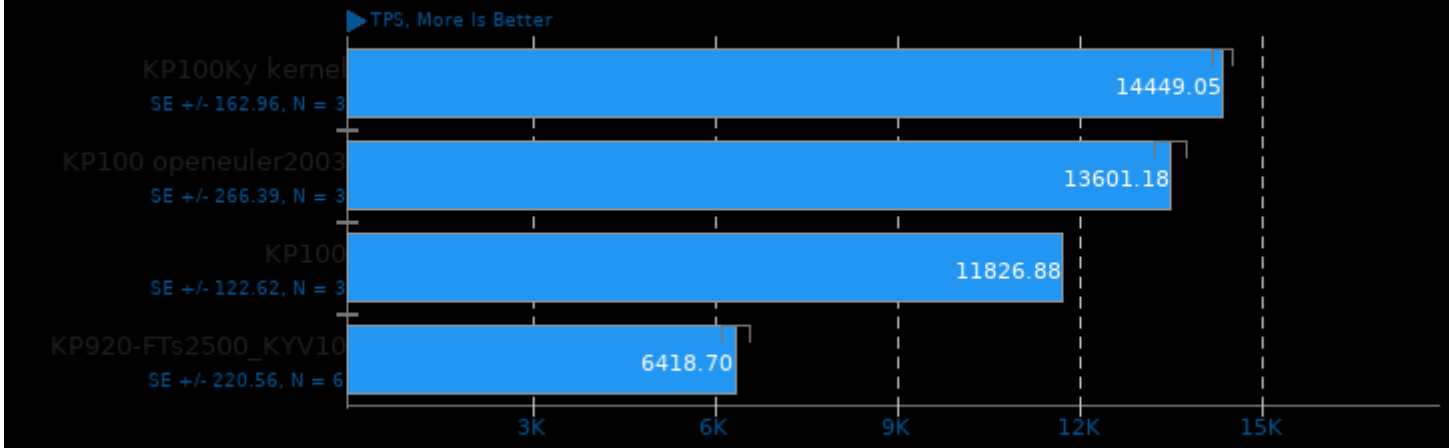



CacheBench
Test: Read / Modify / Write
MB/s, More Is Better
KP100Ky kernel
SE +/- 1.38, N = 3
19333.98
KP100 openeuler2003
SE +/- 0.51, N = 3
19323.90
KP100
SE +/- 1.68, N = 3
19321.09
KP920-FTs2500_KYV10
SE +/- 0.03, N = 3
MIN: 14633.89 / MAX: 15982.51
15598.16
4K
8K
12K
16K
20K
1. (CC) gcc options: -lrt
John The Ripper 1.9.0-jumbo-1
Test: Blowfish
Real C/S, More Is Better
KP920-FTs2500_KYV10
SE +/- 941.13, N = 15
40143
KP100Ky kernel
SE +/- 47.51, N = 3
35132
KP100 openeuler2003
SE +/- 143.90, N = 3
34854
KP100
SE +/- 491.87, N = 5
33240
9K
18K
27K
36K
45K
1. (CC) gcc options: -lssl -lcrypto -fopenmp -lgmp -pthread -lm -lz -ldl -lcrypt -lbz2


7-Zip Compression 16.02
Compress Speed Test
MIPS, More Is Better
KP100Ky kernel
SE +/- 982.52, N = 3
118820
KP100 openeuler2003
SE +/- 2227.50, N = 3
111422
KP100
SE +/- 1257.94, N = 3
103511
KP920-FTs2500_KYV10
SE +/- 949.66, N = 7
102859
30K
60K
90K
120K
150K
1. (CXX) g++ options: -pipe -lpthread
C-Ray 1.1
Total Time - 4K, 16 Rays Per Pixel
Seconds, Fewer Is Better
KP920-FTs2500_KYV10
SE +/- 0.06, N = 3
14.91
KP100
SE +/- 0.04, N = 3
27.01
KP100 openeuler2003
SE +/- 0.03, N = 3
27.14
KP100Ky kernel
SE +/- 0.02, N = 3
27.19
6
12
18
24
30
1. (CC) gcc options: -lm -lpthread -O3

PostgreSQL pgbench 10.3

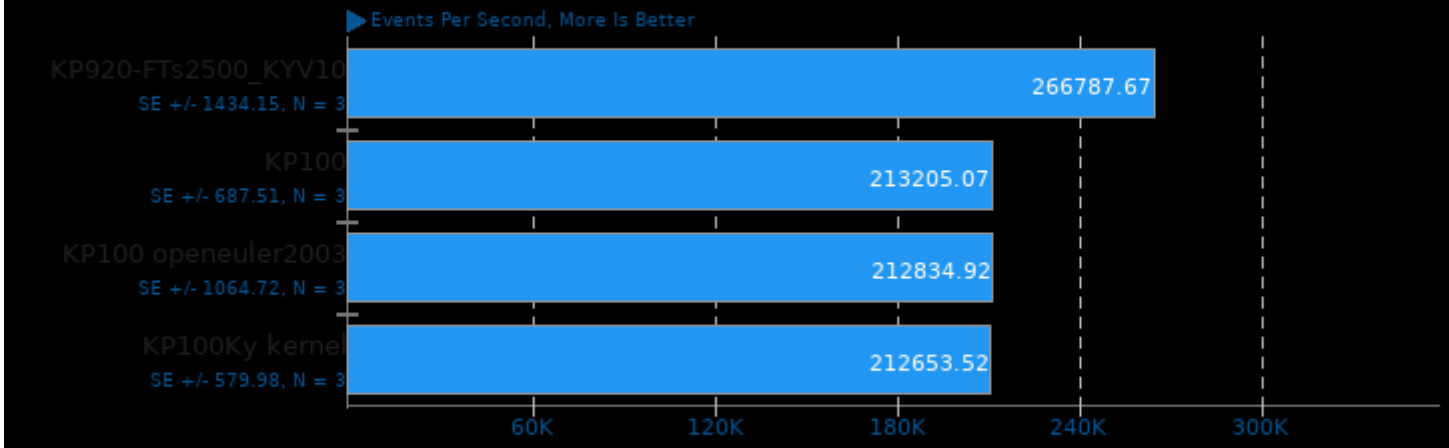
scaling-factor:Buffer Test - run-test:Single Thread - run-mode:Read Only



1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lpthread -lrt -lcrypt -ldl -lm

Sysbench 2018-07-28

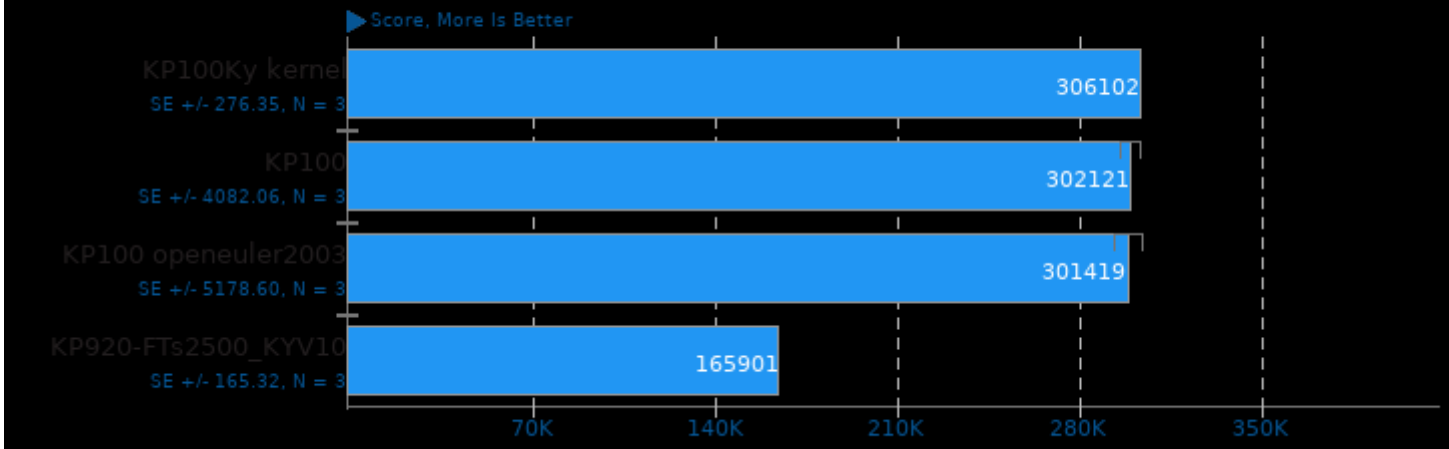
Test: CPU



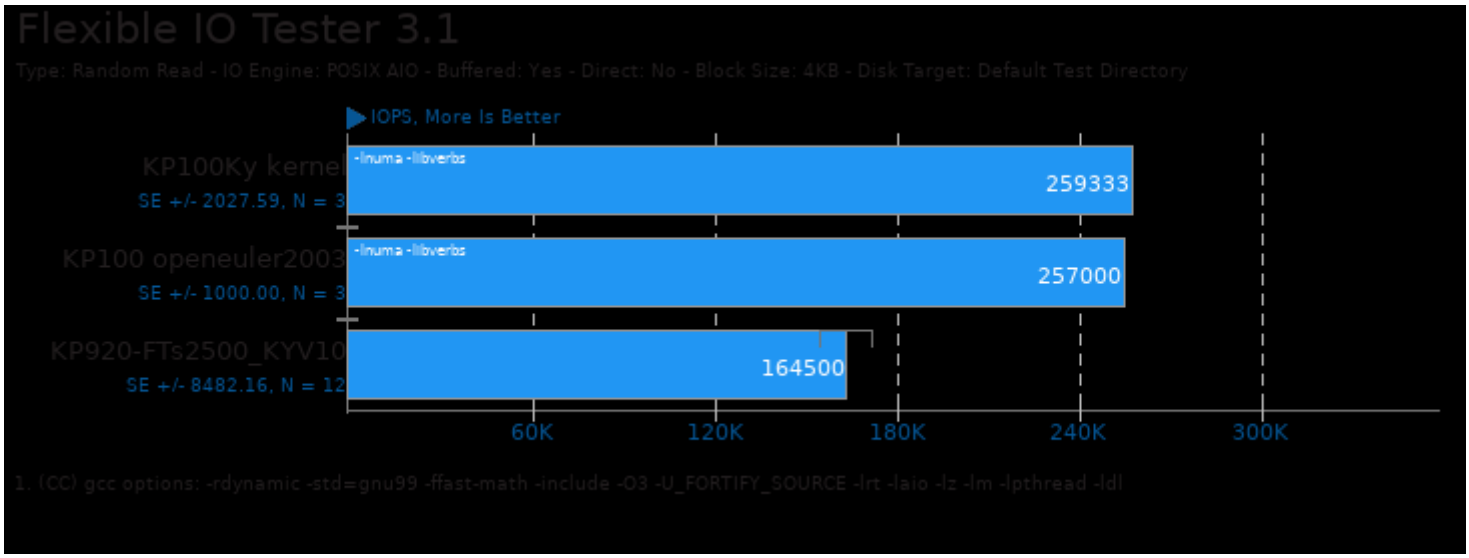
1. (CC) gcc options: -pthread -O3 -funroll-loops -ggdb3 -rdynamic -ldl -laio -lm

PHPBench 0.8.1

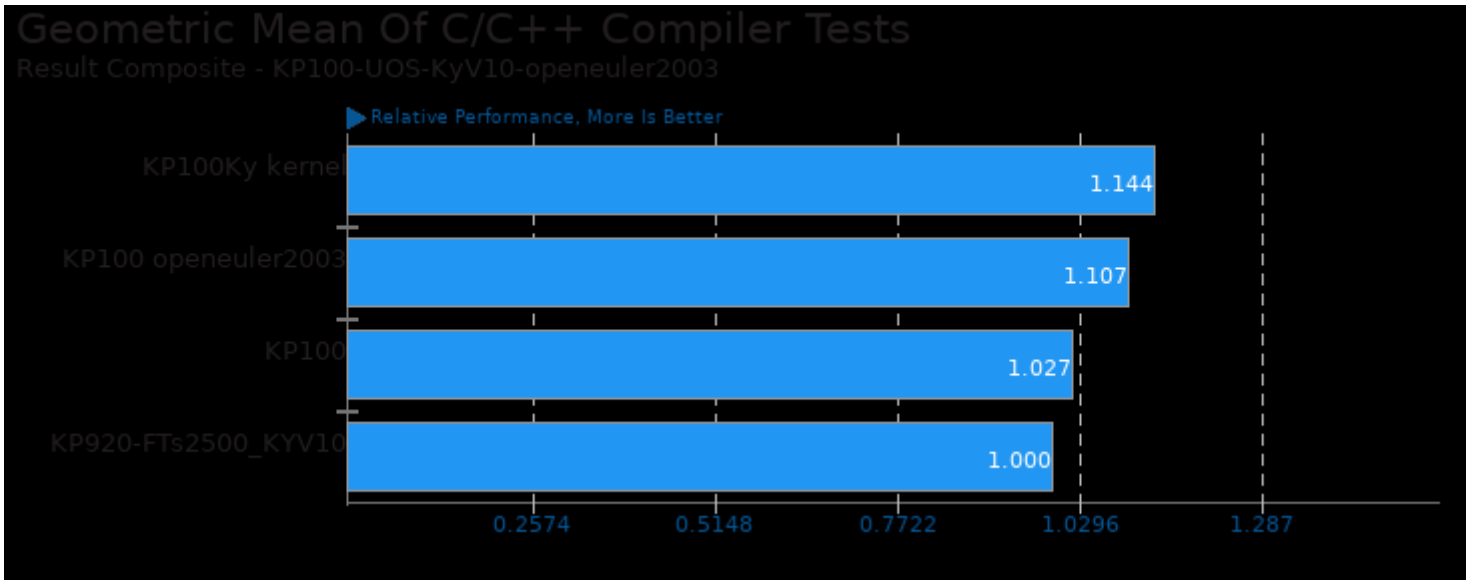
PHP Benchmark Suite



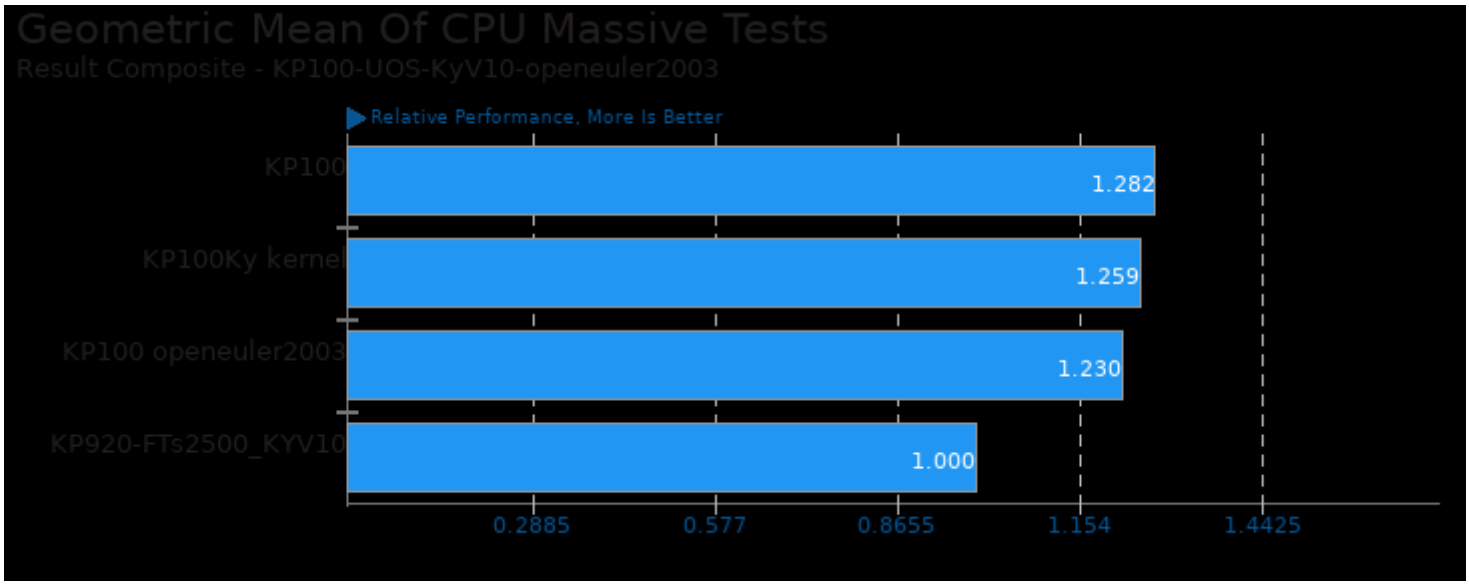
KP100-UOS-KyV10-openeuler2003



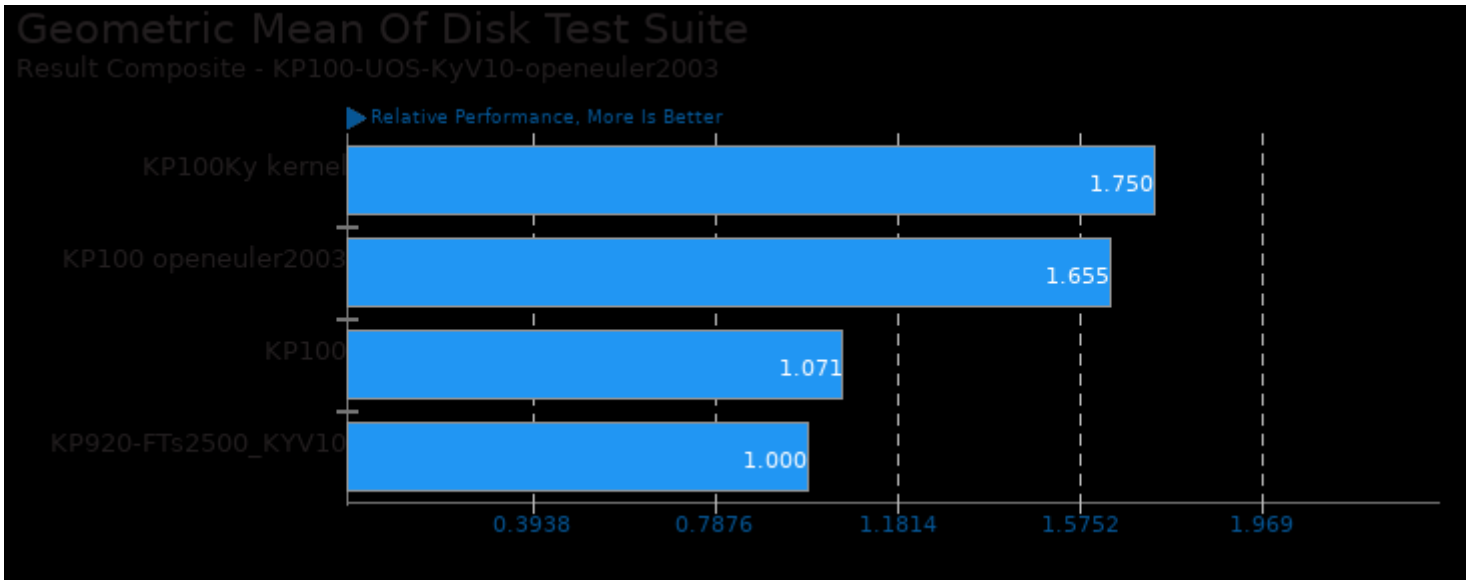
These geometric means are based upon test groupings / test suites for this result file.



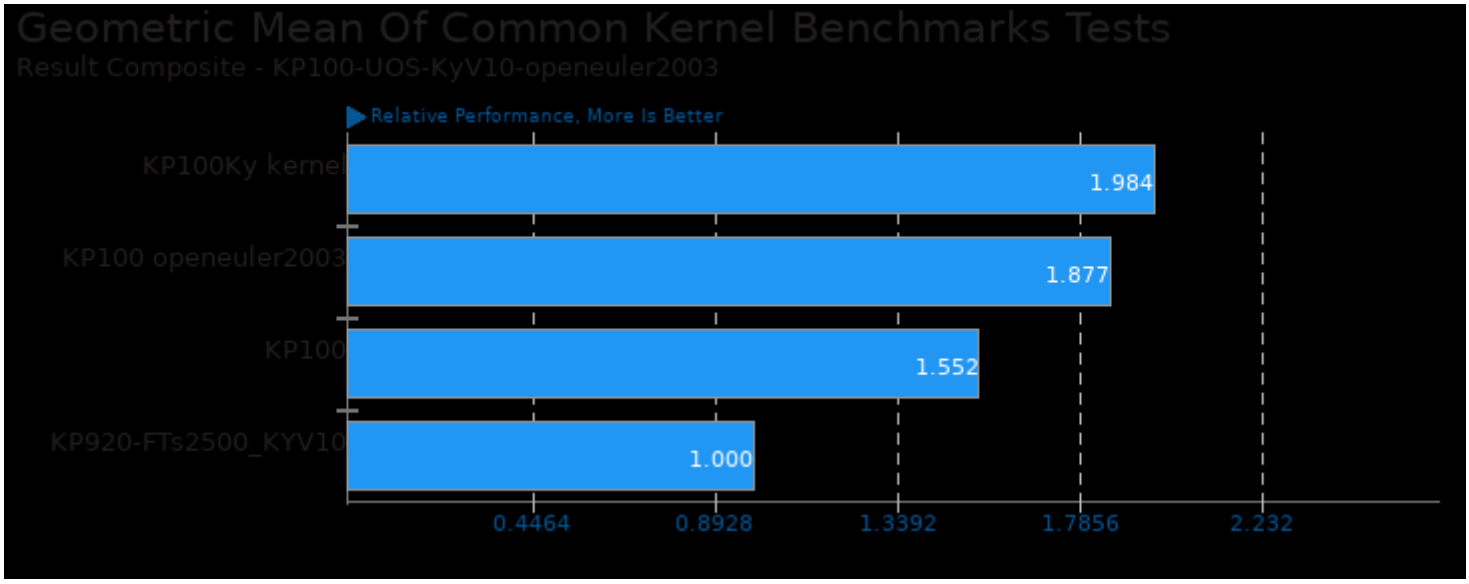
Geometric mean based upon tests: pts/mafft, pts/c-ray, pts/compress-7zip, pts/pgbench and pts/john-the-ripper



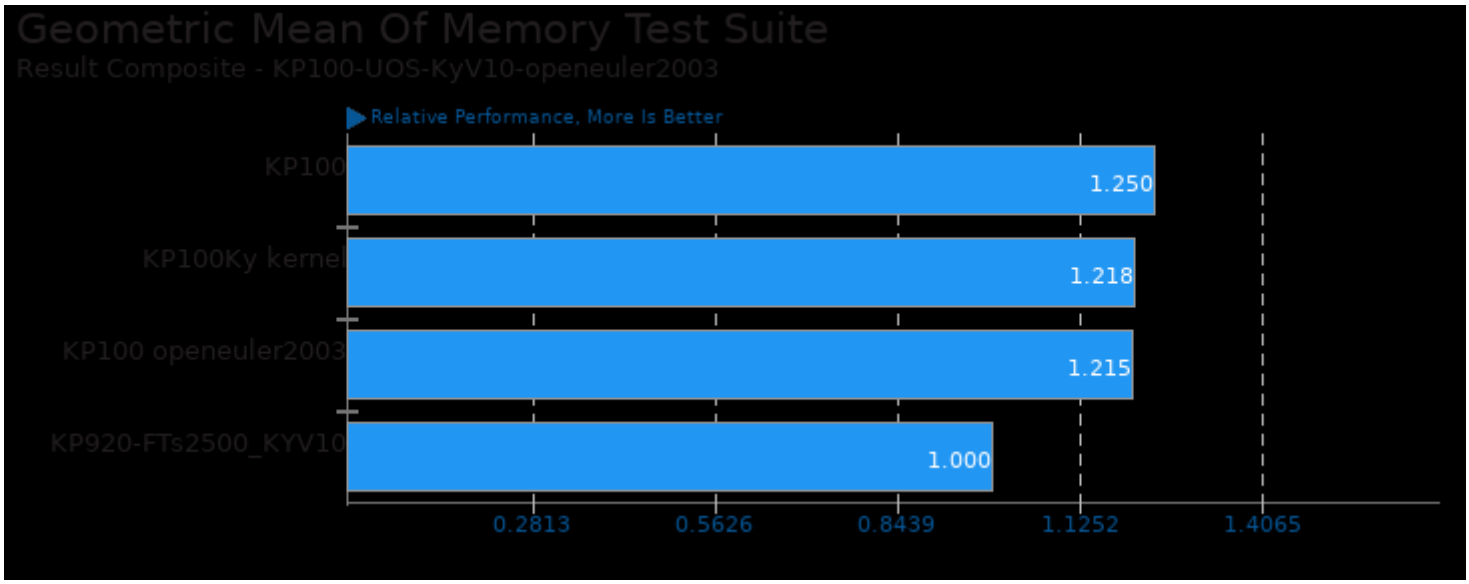
Geometric mean based upon tests: pts/blogbench, pts/c-ray, pts/cachebench, pts/compilebench, pts/compress-7zip, pts/john-the-ripper, pts/mafft, pts/pgbench, pts/phpbench, pts/ramspeed, pts/stream and pts/sysbench



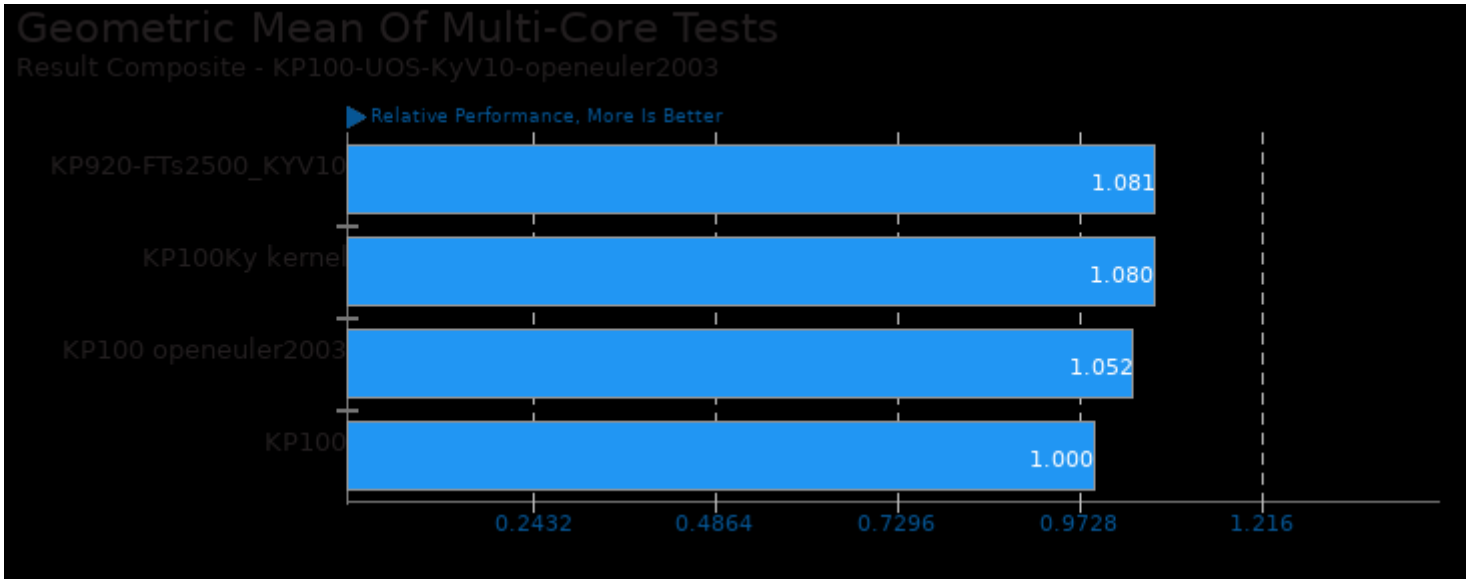
Geometric mean based upon tests: pts/fs-mark, pts/compilebench, pts/iozone, pts/dbench, pts/postmark and pts/fio



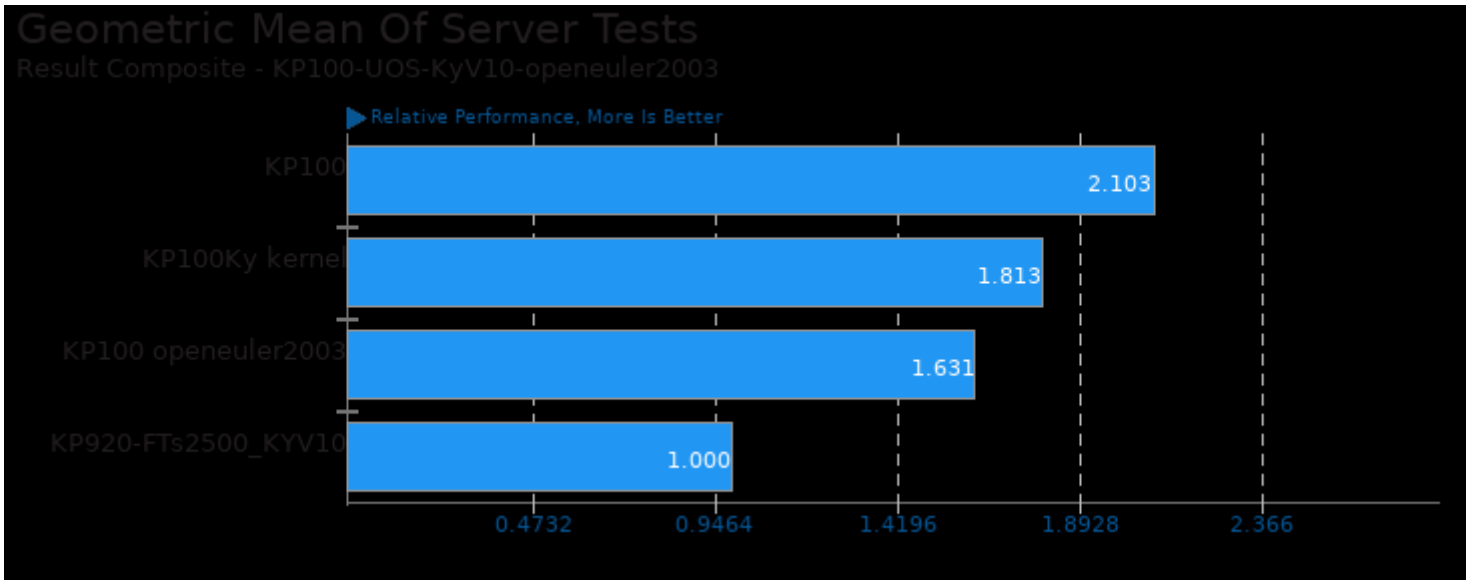
Geometric mean based upon tests: pts/postmark and pts/pgbench



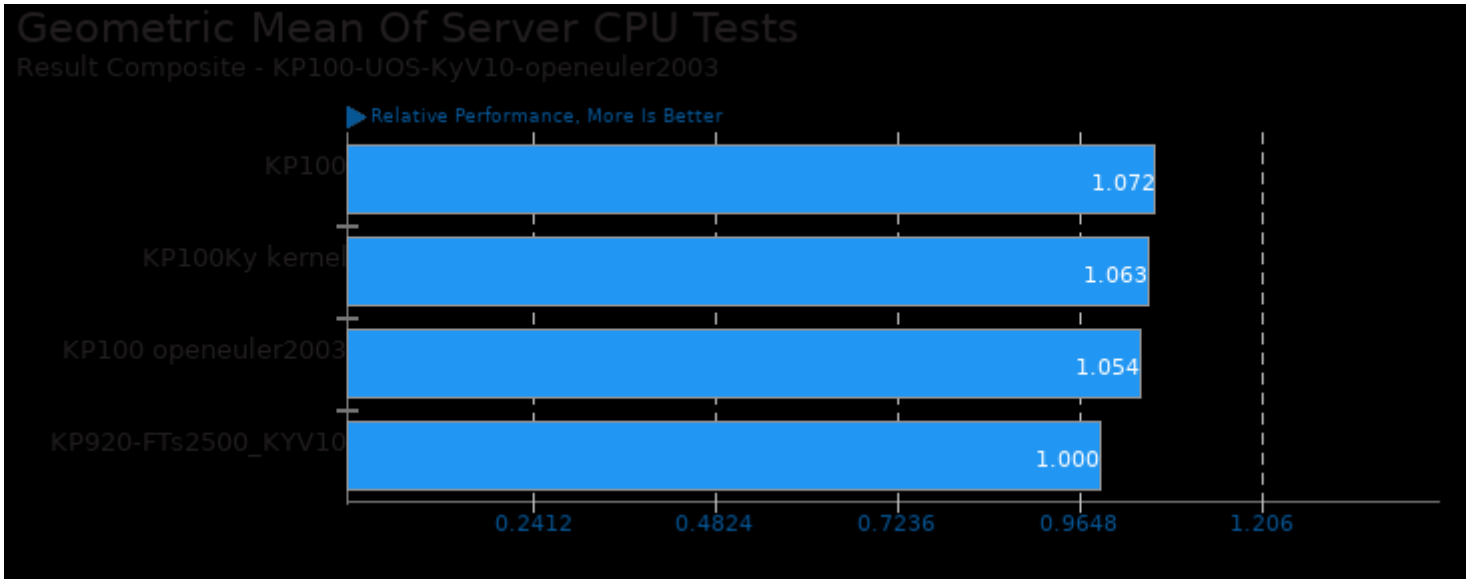
Geometric mean based upon tests: pts/ramspeed, pts/stream and pts/cachebench



Geometric mean based upon tests: pts/sysbench, pts/c-ray, pts/john-the-ripper, pts/compress-7zip and pts/pgbench

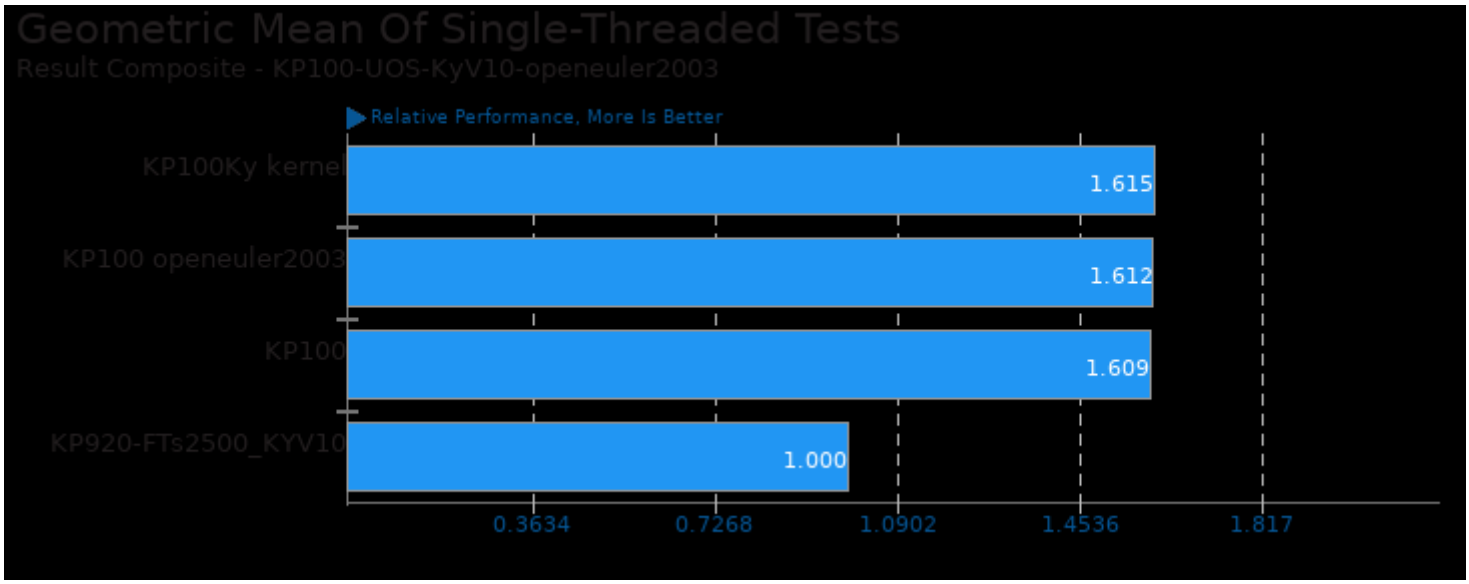


Geometric mean based upon tests: pts/blogbench, pts/pgbench and pts/phpbench



Geometric mean based upon tests: pts/john-the-ripper, pts/compress-7zip, pts/c-ray, pts/sysbench, pts/phpbench, pts/ramspeed and pts/stream

KP100-UOS-KyV10-openeuler2003



Geometric mean based upon tests: pts/cachebench and pts/phpbench

This file was automatically generated via the Phoronix Test Suite benchmarking software on Thursday, 28 March 2024 06:34.