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Linux 3.18 Disk Test SSD

Running pts/fio-1.7.1, pts/postmark-1.1.0 via the Phoronix Test Suite.

Test Systems:

Btrfs: Linux 3.17

Processor: Intel Core i7-4770K @ 3.90GHz (8 Cores), Motherboard: Gigabyte Z97-HD3, Chipset: Intel 4th Gen Core DRAM, Memory: 8192MB, Disk: 120GB INTEL SSDSC2BW12 + 150GB Western Digital WD1500HLHX-0, Graphics: Intel HD 4600 (1250MHz), Audio: Intel Xeon E3-1200 v3/4th, Monitor: DELL S2409W, Network: Realtek RTL8111/8168/8411

OS: Ubuntu 14.10, Kernel: 3.17.0-031700-generic (x86_64), Desktop: Unity 7.3.1, Display Server: X Server 1.16.0, Display Driver: intel 2.99.914, OpenGL: 3.3 Mesa 10.3.0, Compiler: GCC 4.9.1, File-System: btrfs, Screen Resolution: 1920x1080

Compiler Notes: --build=x86_64-linux-gnu --disable-browser-plugin --disable-vtable-verify --disable-werror --enable-checking=release --enable-clocale=gnu --enable-gnu-unique-object --enable-gtk-cairo --enable-java-awt=gtk --enable-java-home --enable-languages=c,c++,java,go,d,fortran,objc,obj-c++ --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-multilib --enable-nls --enable-objc-gc --enable-plugin --enable-shared --enable-threads=posix

--host=x86_64-linux-gnu --target=x86_64-linux-gnu --with-abi=m64 --with-arch-32=i686 --with-arch-directory=amd64 --with-multilib-list=m32,m64,mx32 --with-tune=generic -v
Disk Notes: DEADLINE / relatime,rw,space_cache,ssd
Processor Notes: Scaling Governor: intel_pstate powersave
System Notes: Disk Scheduler: DEADLINE.

Btrfs: Linux 3.18 Git

Processor: Intel Core i7-4770K @ 3.90GHz (8 Cores), Motherboard: Gigabyte Z97-HD3, Chipset: Intel 4th Gen Core DRAM, Memory: 8192MB, Disk: 120GB INTEL SSDSC2BW12 + 150GB Western Digital WD1500HLHX-0, Graphics: Intel HD 4600 (1250MHz), Audio: Intel Xeon E3-1200 v3/4th, Monitor: DELL S2409W, Network: Realtek RTL8111/8168/8411

OS: Ubuntu 14.10, Kernel: 3.18.0-999-generic (x86_64), Desktop: Unity 7.3.1, Display Server: X Server 1.16.0, Display Driver: intel 2.99.914, OpenGL: 3.3 Mesa 10.3.0, Compiler: GCC 4.9.1, File-System: btrfs, Screen Resolution: 1920x1080

Compiler Notes: --build=x86_64-linux-gnu --disable-browser-plugin --disable-vtable-verify --disable-werror --enable-checking=release --enable-clocale=gnu --enable-gnu-unique-object --enable-gtk-cairo --enable-java-awt=gtk --enable-java-home --enable-languages=c,c++,java,go,d,fortran,objc,obj-c++ --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-multilib --enable-nls --enable-objc-gc --enable-plugin --enable-shared --enable-threads=posix --host=x86_64-linux-gnu --target=x86_64-linux-gnu --with-abi=m64 --with-arch-32=i686 --with-arch-directory=amd64 --with-multilib-list=m32,m64,mx32 --with-tune=generic -v
Processor Notes: Scaling Governor: intel_pstate powersave
Disk Mount Options Notes: relatime,rw,space_cache,ssd

XFS: Linux 3.17

Processor: Intel Core i7-4770K @ 3.90GHz (8 Cores), Motherboard: Gigabyte Z97-HD3, Chipset: Intel 4th Gen Core DRAM, Memory: 8192MB, Disk: 120GB INTEL SSDSC2BW12 + 150GB Western Digital WD1500HLHX-0, Graphics: Intel HD 4600 (1250MHz), Audio: Intel Xeon E3-1200 v3/4th, Monitor: DELL S2409W, Network: Realtek RTL8111/8168/8411

OS: Ubuntu 14.10, Kernel: 3.17.0-031700-generic (x86_64), Desktop: Unity 7.3.1, Display Server: X Server 1.16.0, Display Driver: intel 2.99.914, OpenGL: 3.3 Mesa 10.3.0, Compiler: GCC 4.9.1, File-System: xfs, Screen Resolution: 1920x1080

Compiler Notes: --build=x86_64-linux-gnu --disable-browser-plugin --disable-vtable-verify --disable-werror --enable-checking=release --enable-clocale=gnu --enable-gnu-unique-object --enable-gtk-cairo --enable-java-awt=gtk --enable-java-home --enable-languages=c,c++,java,go,d,fortran,objc,obj-c++ --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-multilib --enable-nls --enable-objc-gc --enable-plugin --enable-shared --enable-threads=posix --host=x86_64-linux-gnu --target=x86_64-linux-gnu --with-abi=m64 --with-arch-32=i686 --with-arch-directory=amd64 --with-multilib-list=m32,m64,mx32 --with-tune=generic -v
Disk Notes: DEADLINE / attr2,inode64,noquota,relatime,rw
Processor Notes: Scaling Governor: intel_pstate powersave
System Notes: Disk Scheduler: DEADLINE.

XFS: Linux 3.18 Git

Processor: Intel Core i7-4770K @ 3.90GHz (8 Cores), Motherboard: Gigabyte Z97-HD3, Chipset: Intel 4th Gen Core DRAM, Memory: 8192MB, Disk: 120GB INTEL SSDSC2BW12 + 150GB Western Digital WD1500HLHX-0, Graphics: Intel HD 4600 (1250MHz), Audio: Intel Xeon E3-1200 v3/4th, Monitor: DELL S2409W, Network: Realtek RTL8111/8168/8411

OS: Ubuntu 14.10, Kernel: 3.18.0-999-generic (x86_64), Desktop: Unity 7.3.1, Display Server: X Server 1.16.0, Display Driver: intel 2.99.914, OpenGL: 3.3 Mesa 10.3.0, Compiler: GCC 4.9.1, File-System: xfs, Screen Resolution: 1920x1080

Compiler Notes: --build=x86_64-linux-gnu --disable-browser-plugin --disable-vtable-verify --disable-werror --enable-checking=release --enable-clocale=gnu --enable-gnu-unique-object --enable-gtk-cairo --enable-java-awt=gtk --enable-java-home --enable-languages=c,c++,java,go,d,fortran,objc,obj-c++ --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-multilib --enable-nls --enable-objc-gc --enable-plugin --enable-shared --enable-threads=posix --host=x86_64-linux-gnu --target=x86_64-linux-gnu --with-abi=m64 --with-arch-32=i686 --with-arch-directory=amd64 --with-multilib-list=m32,m64,mx32 --with-tune=generic -v

Processor Notes: Scaling Governor: intel_pstate powersave
Disk Mount Options Notes: attr2,inode64,noquota,relatime,rw

EXT4: Linux 3.17

Processor: Intel Core i7-4770K @ 3.90GHz (8 Cores), Motherboard: Gigabyte Z97-HD3, Chipset: Intel 4th Gen Core DRAM, Memory: 8192MB, Disk: 120GB INTEL SSDSC2BW12 + 150GB Western Digital WD1500HLHX-0, Graphics: Intel HD 4600 (1250MHz), Audio: Intel Xeon E3-1200 v3/4th, Monitor: DELL S2409W, Network: Realtek RTL8111/8168/8411

OS: Ubuntu 14.10, Kernel: 3.17.0-031700-generic (x86_64), Desktop: Unity 7.3.1, Display Server: X Server 1.16.0, Display Driver: intel 2.99.914, OpenGL: 3.3 Mesa 10.3.0, Compiler: GCC 4.9.1, File-System: ext4, Screen Resolution: 1920x1080

Compiler Notes: --build=x86_64-linux-gnu --disable-browser-plugin --disable-vtable-verify --disable-werror --enable-checking=release --enable-clocale=gnu --enable-gnu-unique-object --enable-gtk-cairo --enable-java-awt=gtk --enable-java-home --enable-languages=c,c++,java,go,d,fortran,objc,obj-c++ --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-multilib --enable-nls --enable-objc-gc --enable-plugin --enable-shared --enable-threads=posix --host=x86_64-linux-gnu --target=x86_64-linux-gnu --with-abi=m64 --with-arch-32=i686 --with-arch-directory=amd64 --with-multilib-list=m32,m64,mx32 --with-tune=generic -v
Disk Notes: DEADLINE / data=ordered,relatime,rw
Processor Notes: Scaling Governor: intel_pstate powersave
System Notes: Disk Scheduler: DEADLINE.

EXT4: Linux 3.18 Git

Processor: Intel Core i7-4770K @ 3.90GHz (8 Cores), Motherboard: Gigabyte Z97-HD3, Chipset: Intel 4th Gen Core DRAM, Memory: 8192MB, Disk: 120GB INTEL SSDSC2BW12 + 150GB Western Digital WD1500HLHX-0, Graphics: Intel HD 4600 (1250MHz), Audio: Intel Xeon E3-1200 v3/4th, Monitor: DELL S2409W, Network: Realtek RTL8111/8168/8411

OS: Ubuntu 14.10, Kernel: 3.18.0-999-generic (x86_64), Desktop: Unity 7.3.1, Display Server: X Server 1.16.0, Display Driver: intel 2.99.914, OpenGL: 3.3 Mesa 10.3.0, Compiler: GCC 4.9.1, File-System: ext4, Screen Resolution: 1920x1080

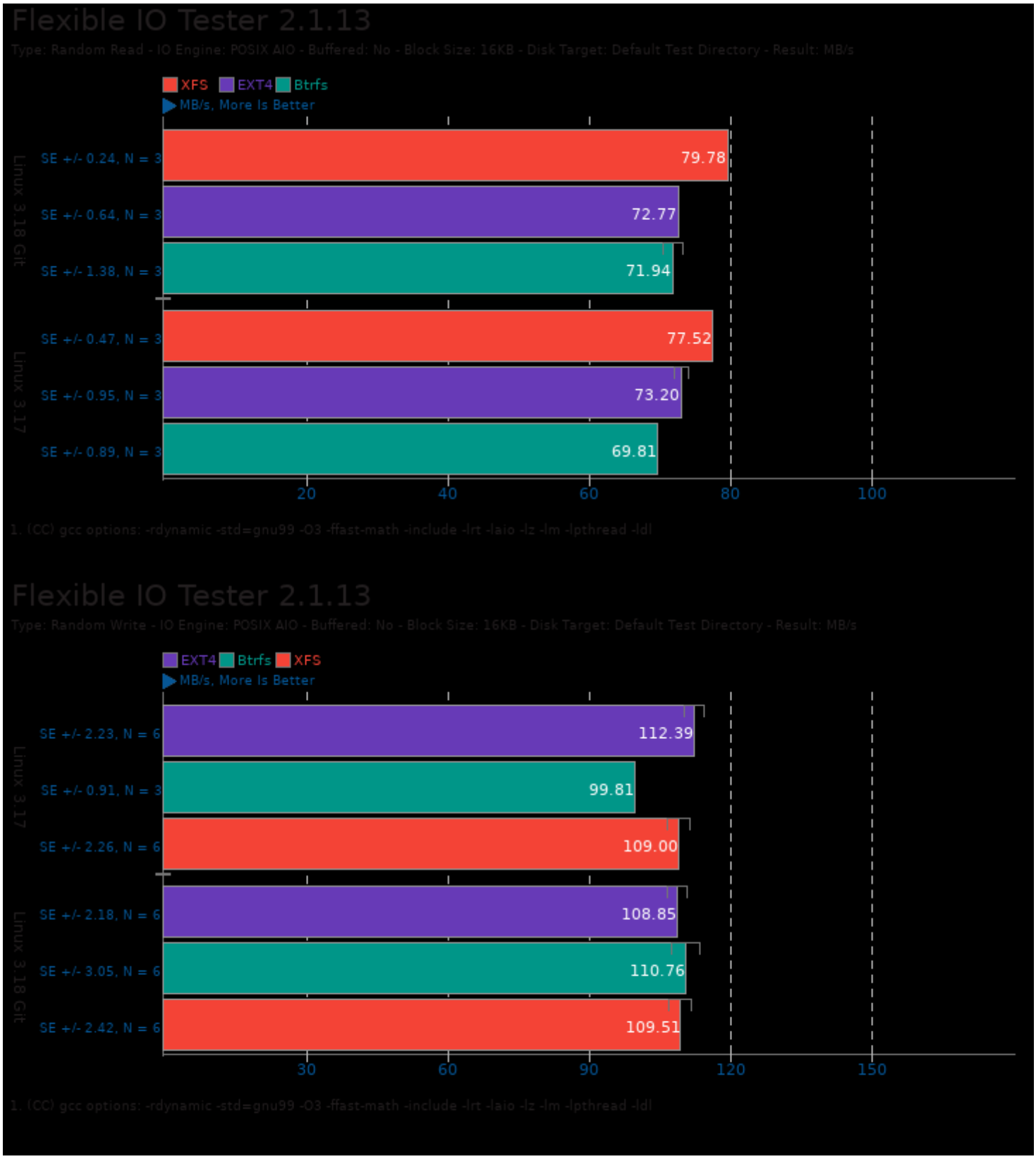
Compiler Notes: --build=x86_64-linux-gnu --disable-browser-plugin --disable-vtable-verify --disable-werror --enable-checking=release --enable-clocale=gnu --enable-gnu-unique-object --enable-gtk-cairo --enable-java-awt=gtk --enable-java-home --enable-languages=c,c++,java,go,d,fortran,objc,obj-c++ --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-multilib --enable-nls --enable-objc-gc --enable-plugin --enable-shared --enable-threads=posix --host=x86_64-linux-gnu --target=x86_64-linux-gnu --with-abi=m64 --with-arch-32=i686 --with-arch-directory=amd64 --with-multilib-list=m32,m64,mx32 --with-tune=generic -v
Processor Notes: Scaling Governor: intel_pstate powersave
Disk Mount Options Notes: data=ordered,relatime,rw

	Btrfs: Linux 3.17	Btrfs: Linux 3.18 Git	XFS: Linux 3.17	XFS: Linux 3.18 Git	EXT4: Linux 3.17	EXT4: Linux 3.18 Git
Flexible IO Tester - Rand Read - POSIX AIO - No - 16KB - MB/s (MB/s)	**69.81**	71.94	77.52	**79.78**	73.20	72.77
Normalized	87.5%	90.17%	97.17%	100%	91.75%	91.21%
Standard Deviation	2.2%	3.3%	1%	0.5%	2.2%	1.5%

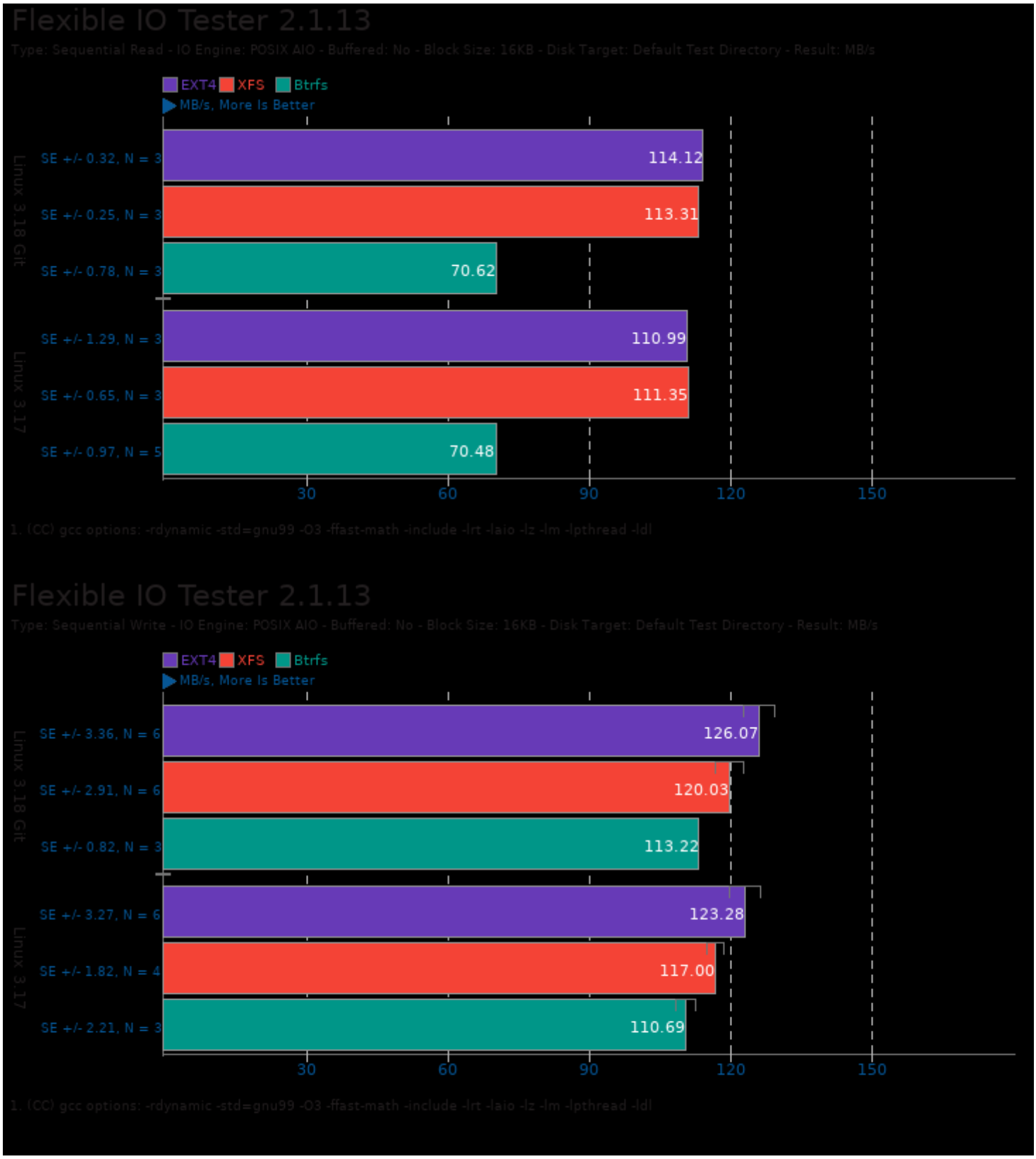
Linux 3.18 Disk Test SSD

Flexible IO Tester - Rand Write - POSIX AIO - No - 16KB - MB/s (MB/s)	**99.81**	110.76	109.00	109.51	**112.39**	108.85
Normalized	88.81%	98.55%	96.98%	97.44%	100%	96.85%
Standard Deviation	1.6%	6.7%	5.1%	5.4%	4.9%	4.9%
Flexible IO Tester - Seq Read - POSIX AIO - No - 16KB - MB/s (MB/s)	**70.48**	70.62	111.35	113.31	110.99	**114.12**
Normalized	61.76%	61.88%	97.57%	99.29%	97.26%	100%
Standard Deviation	3.1%	1.9%	1%	0.4%	2%	0.5%
Flexible IO Tester - Seq Write - POSIX AIO - No - 16KB - MB/s (MB/s)	**110.69**	113.22	117.00	120.03	123.28	**126.07**
Normalized	87.8%	89.81%	92.81%	95.21%	97.79%	100%
Standard Deviation	3.5%	1.3%	3.1%	5.9%	6.5%	6.5%
PostMark - D.T.P (TPS)	6819	**6944**	6199	6199	**6097**	6199
Normalized	98.2%	100%	89.27%	89.27%	87.8%	89.27%
Standard Deviation	1.6%	0%	1.4%	1.4%	0%	1.4%

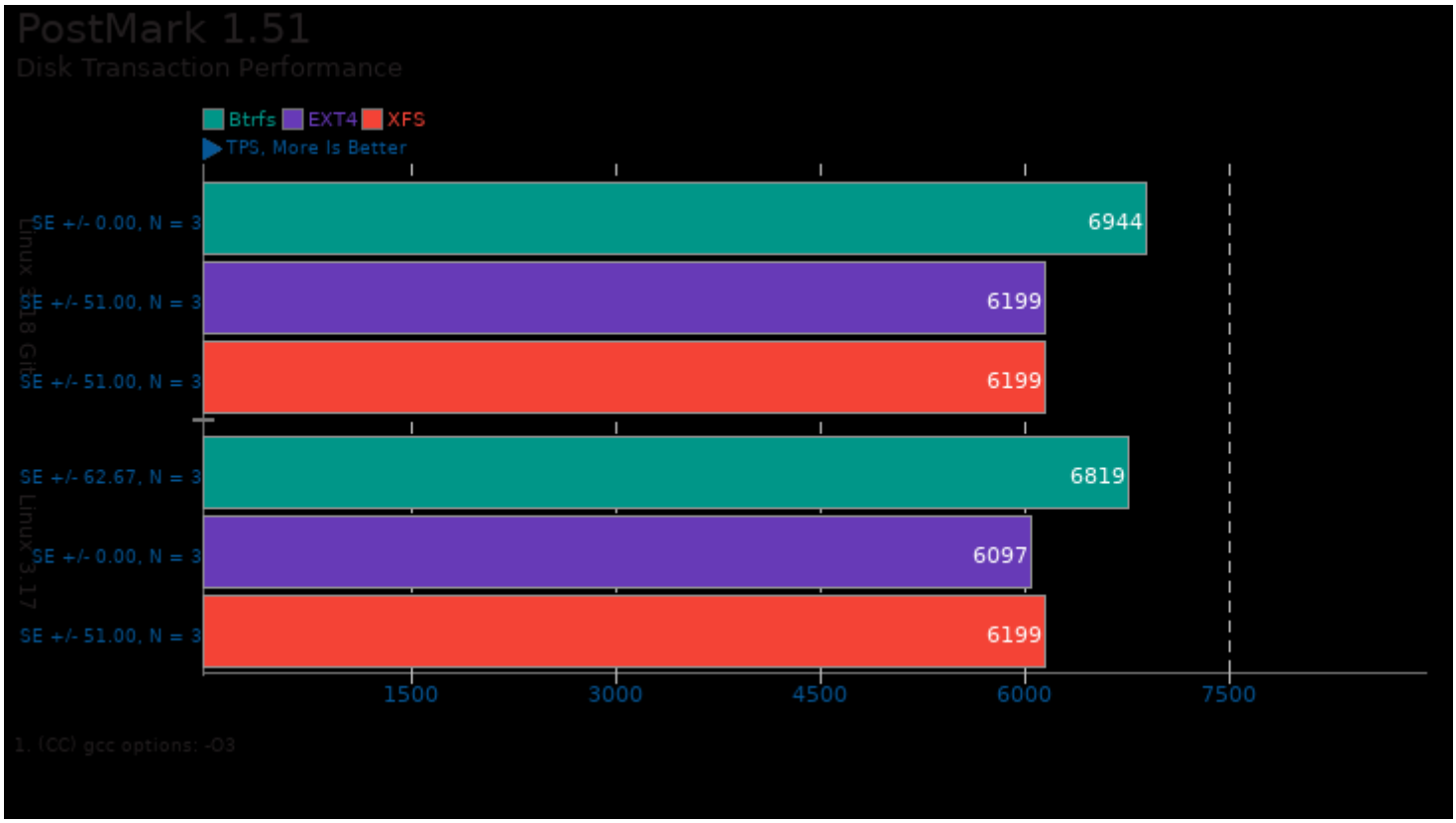
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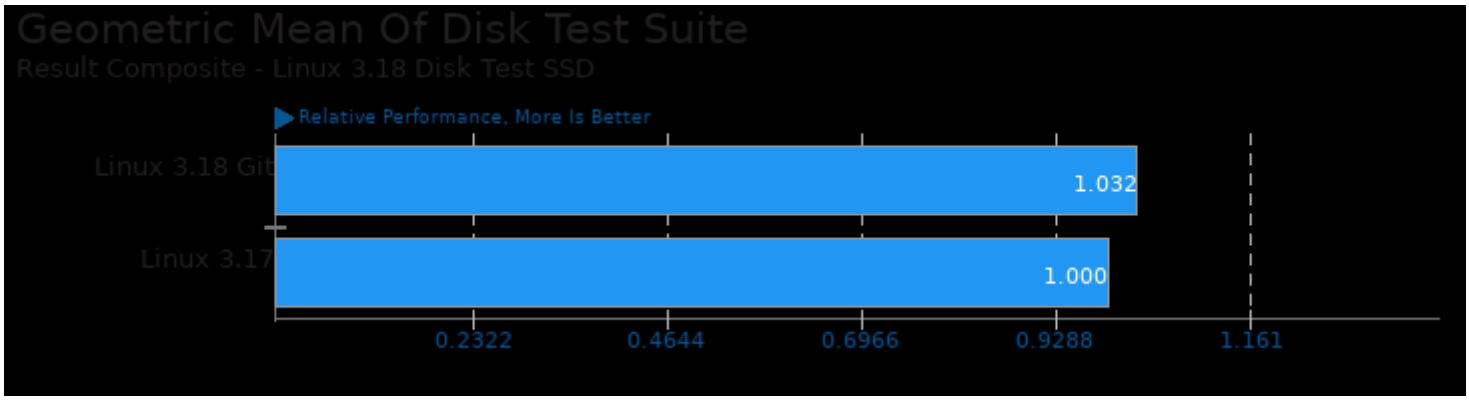


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Linux 3.18 Disk Test SSD

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



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

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