

www.phoronix-test-suite.com

linux1

microsoft testing on Ubuntu 20.04 via the Phoronix Test Suite.

Test Systems:

1

2

3

Processor: Intel Core i7-6700HQ (4 Cores / 8 Threads), Memory: 14GB, Disk: 2 x 275GB Virtual Disk

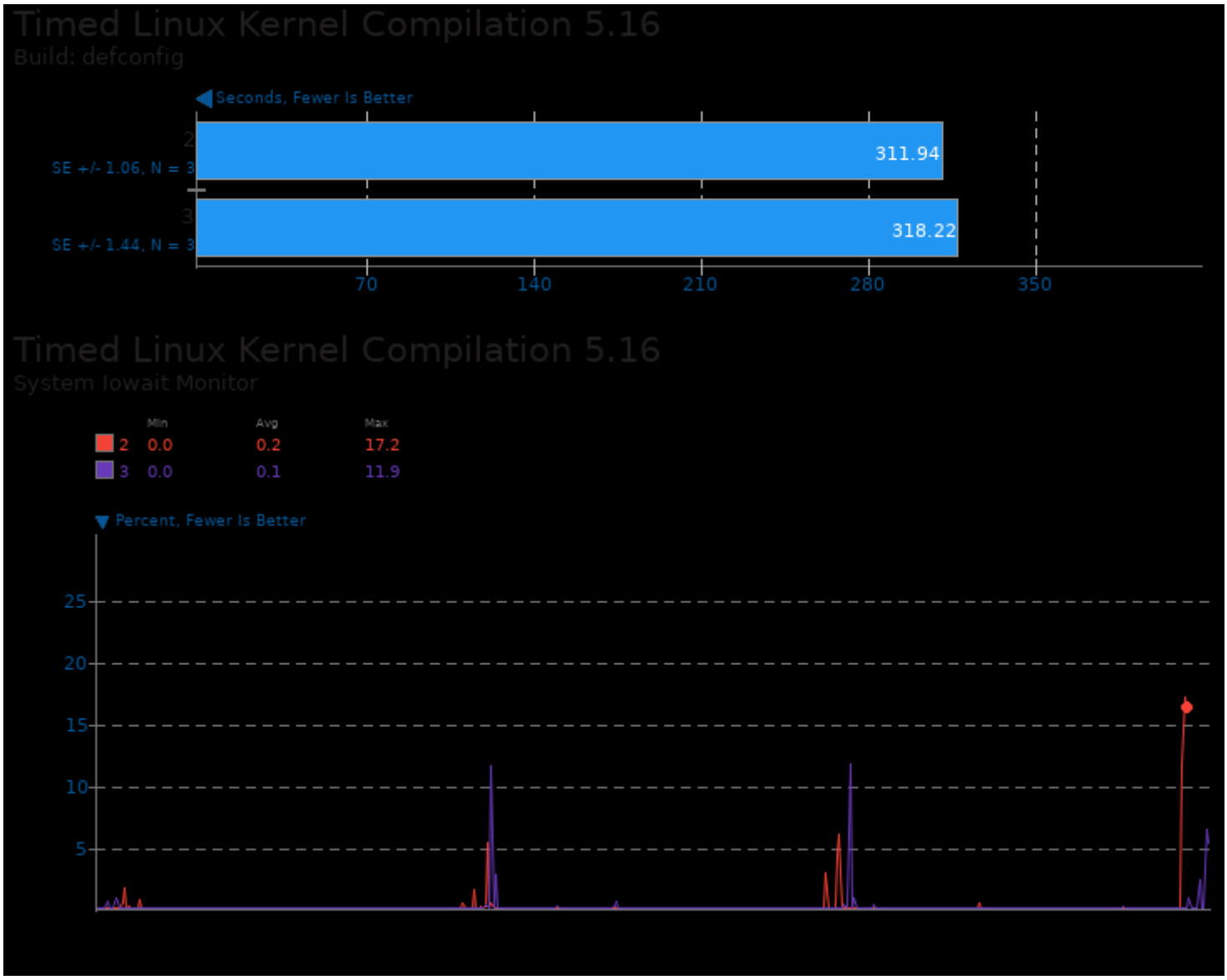
OS: Ubuntu 20.04, Kernel: 4.19.104-microsoft-standard (x86_64), Display Server: X Server, Compiler: GCC 9.3.0, File-System: ext4, System Layer: microsoft

Kernel Notes: Transparent Huge Pages: always
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++,gm2 --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch

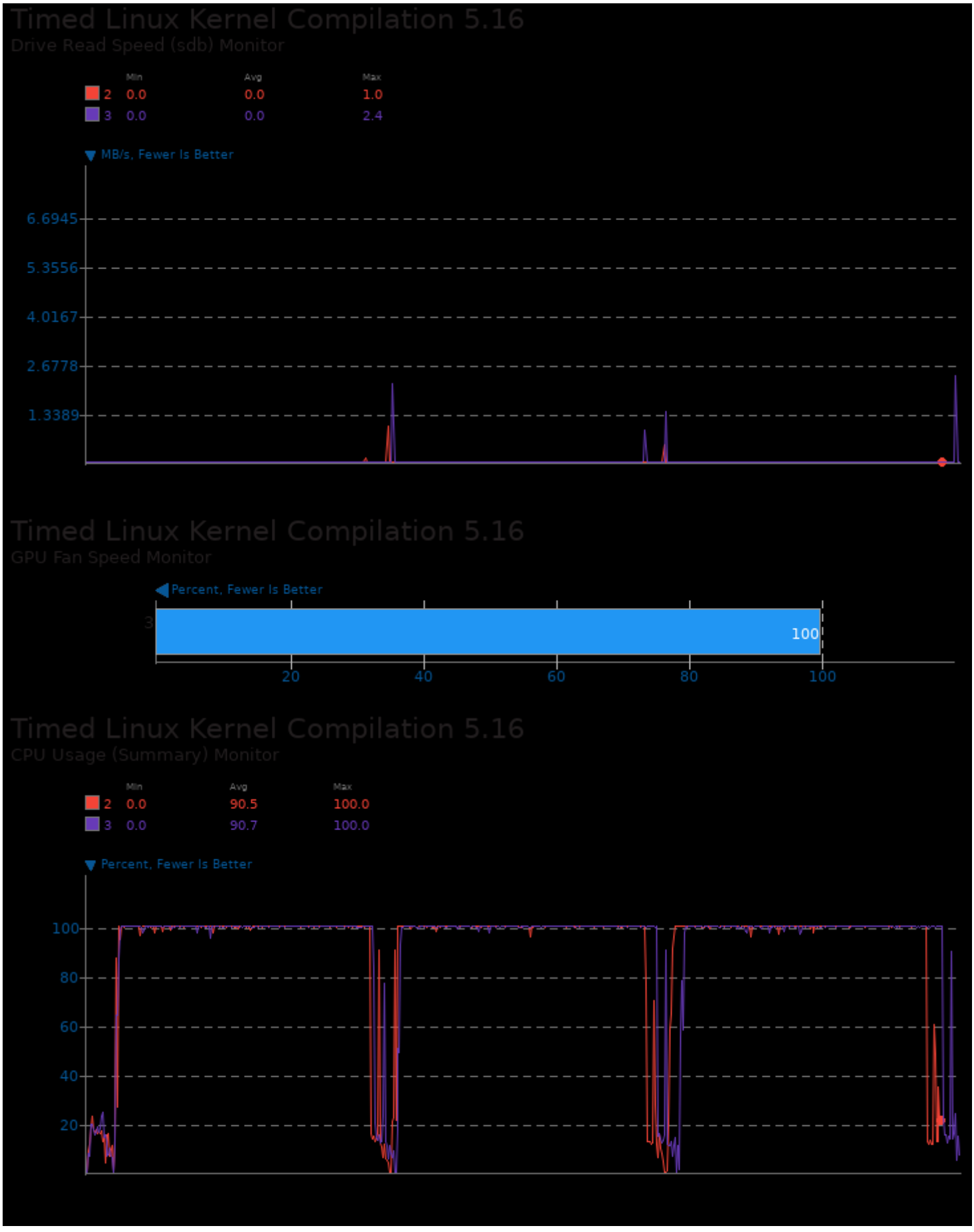
linux1

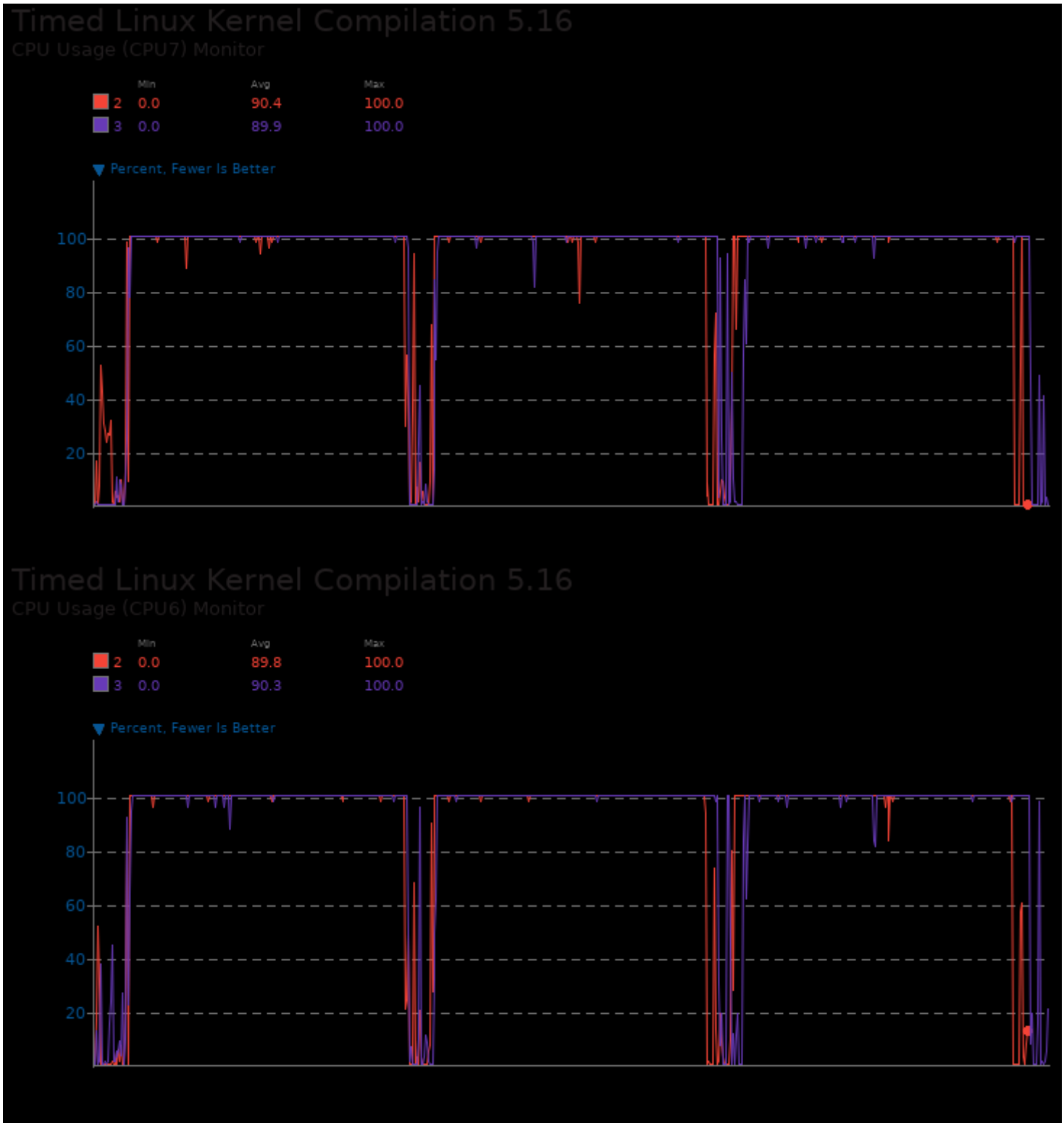
--enable-multilib --enable-nls --enable-objc-gc=auto --enable-offload-targets=nvptx-none=/build/gcc-9-HskZEa/gcc-9-9.3.0/debian/tmp-nvptx/usr,hsa --enable-plugin --enable-shared --enable-threads=posix --host=x86_64-linux-gnu --program-prefix=x86_64-linux-gnu- --target=x86_64-linux-gnu --with-abi=m64 --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: CPU Microcode: 0xffffffff
Security Notes: itlb_multihit: KVM: Vulnerable + l1tf: Mitigation of PTE Inversion + mds: Vulnerable: Clear buffers attempted no microcode; SMT Host state unknown + meltdown: Mitigation of PTI + spec_store_bypass: Mitigation of SSB disabled via prctl and seccomp + spectre_v1: Mitigation of usercopy/swapgs barriers and __user pointer sanitization + spectre_v2: Mitigation of Full generic retpoline IBPB: conditional IBRS_FW STIBP: conditional RSB filling + tsx_async_abort: Vulnerable: Clear buffers attempted no microcode; SMT Host state unknown

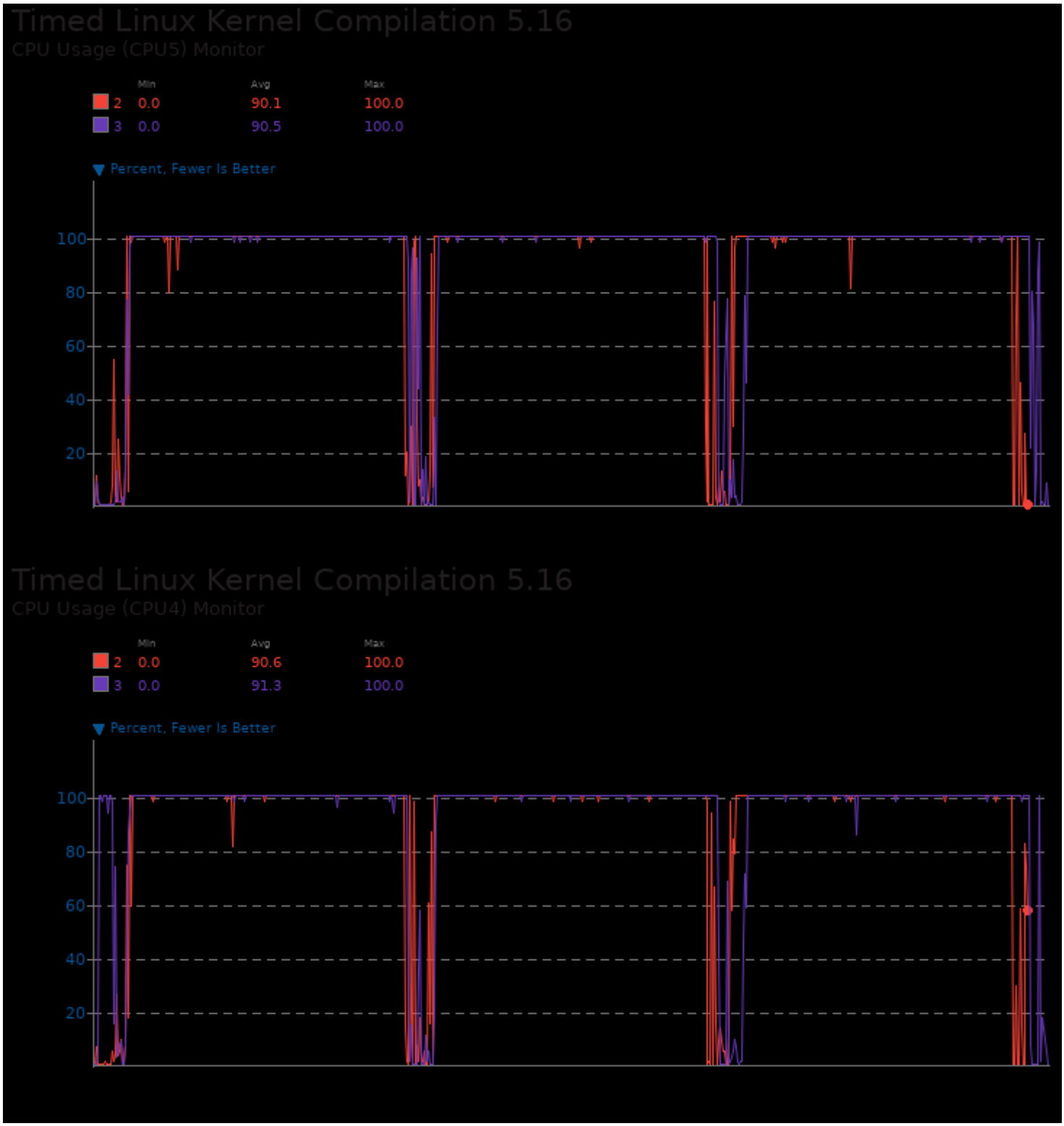
1	2	3
Timed Linux Kernel Compilation - defconfig (sec)	**311.941**	**318.219**
Normalized	100%	98.03%
Standard Deviation	0.6%	0.8%

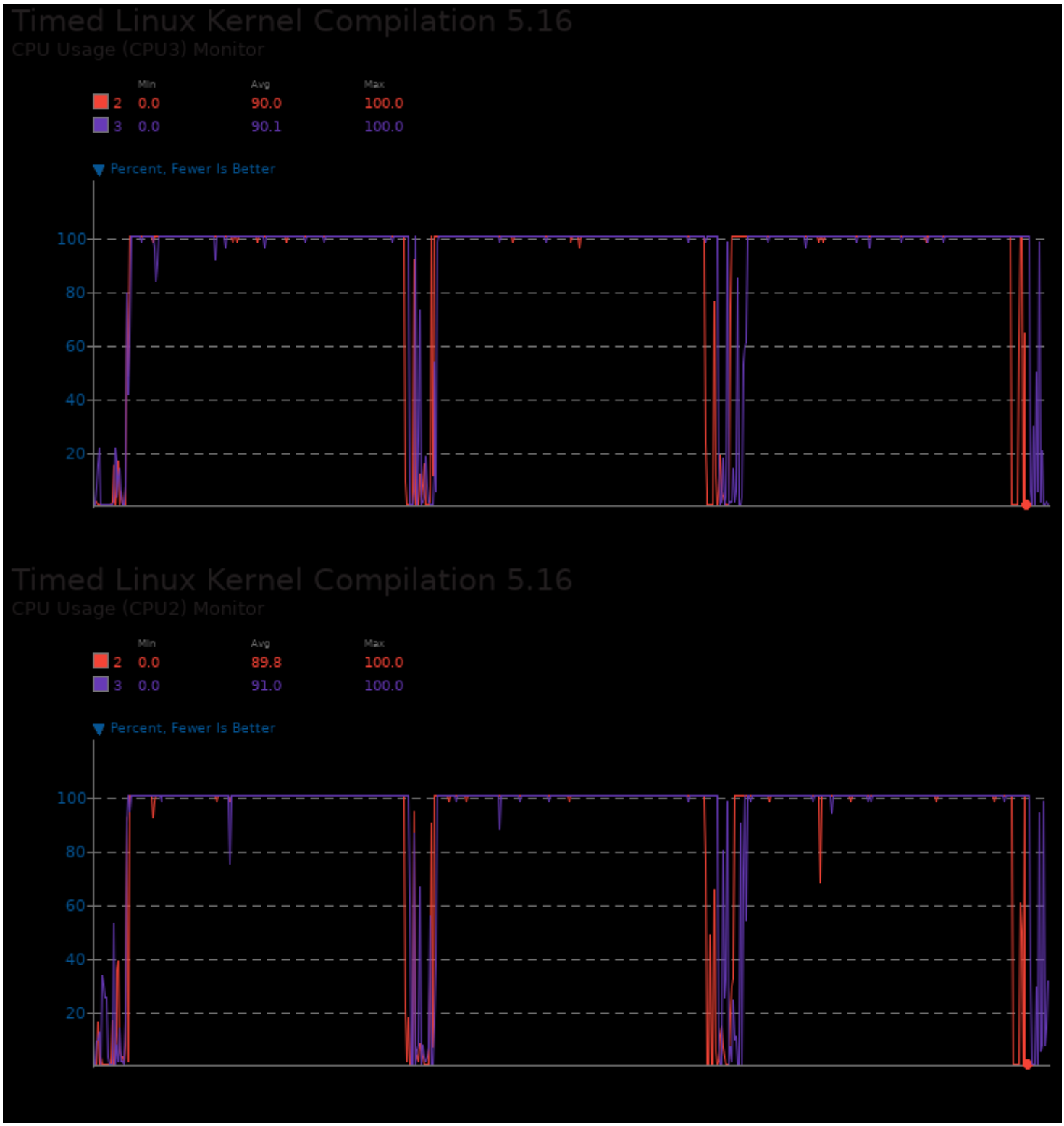

Timed Linux Kernel Compilation 5.16
Build: defconfig
Seconds, Fewer Is Better
2
SE +/- 1.06, N = 3
311.94
3
SE +/- 1.44, N = 3
318.22
70
140
210
280
350
Timed Linux Kernel Compilation 5.16
System Iowait Monitor
Min
Avg
Max
2 0.0 0.2 17.2
3 0.0 0.1 11.9
Percent, Fewer Is Better
25
20
15
10
5

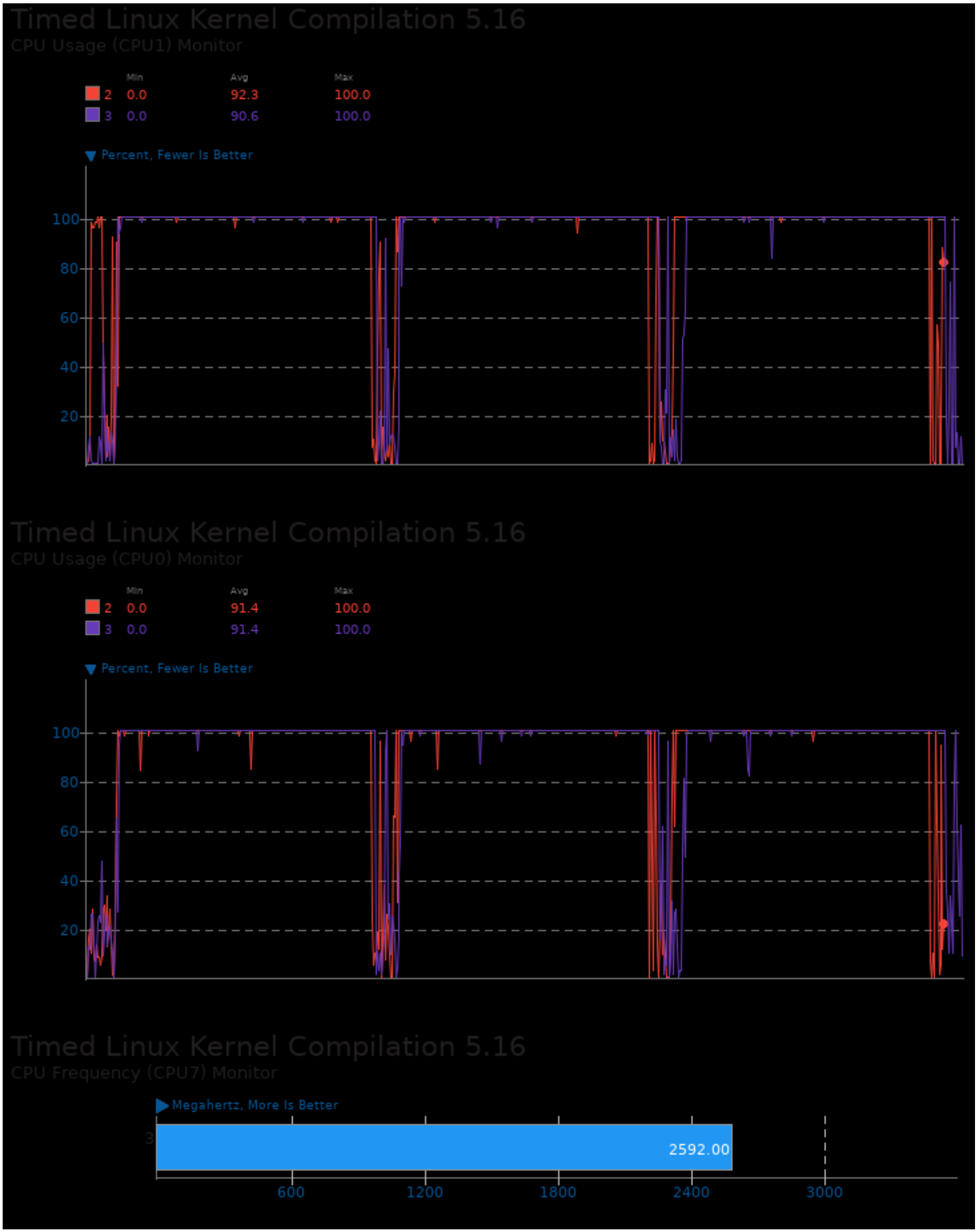

Timed Linux Kernel Compilation 5.16
Memory Usage Monitor
Min
Avg
Max
2 225 551 1099
3 255 583 1121
Megabytes, Fewer Is Better
1000
800
600
400
200
Timed Linux Kernel Compilation 5.16
Drive Write Speed (sdb) Monitor
Min
Avg
Max
2 0.0 2.8 449.6
3 0.0 2.1 308.1
MB/s, Fewer Is Better
600
480
360
240
120

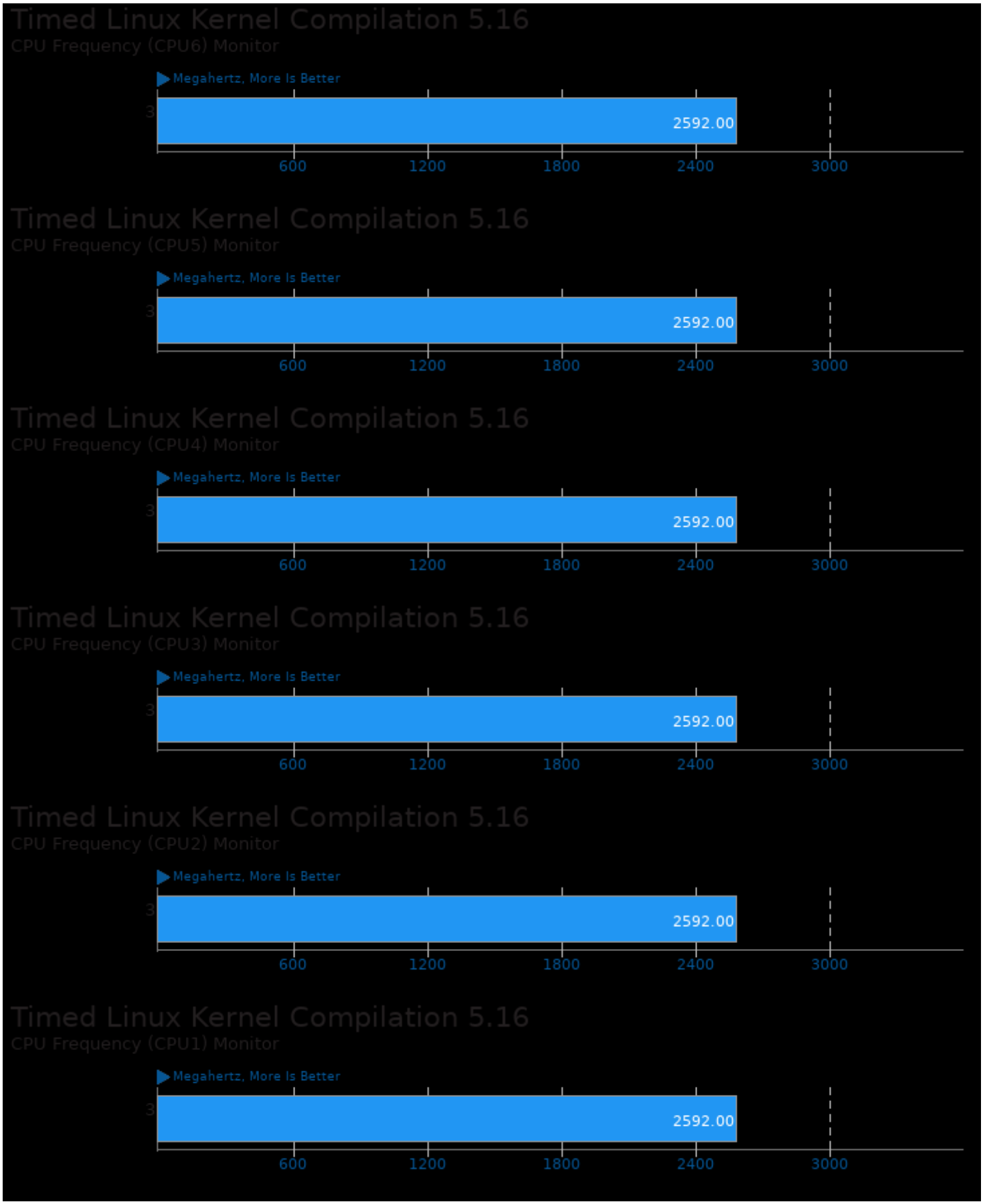

Timed Linux Kernel Compilation 5.16
Drive Read Speed (sdb) Monitor
Min
Avg
Max
2 0.0 0.0 1.0
3 0.0 0.0 2.4
MB/s, Fewer Is Better
6.6945
5.3556
4.0167
2.6778
1.3389
Timed Linux Kernel Compilation 5.16
GPU Fan Speed Monitor
Percent, Fewer Is Better
100
20
40
60
80
100
Timed Linux Kernel Compilation 5.16
CPU Usage (Summary) Monitor
Min
Avg
Max
2 0.0 90.5 100.0
3 0.0 90.7 100.0
Percent, Fewer Is Better
100
80
60
40
20

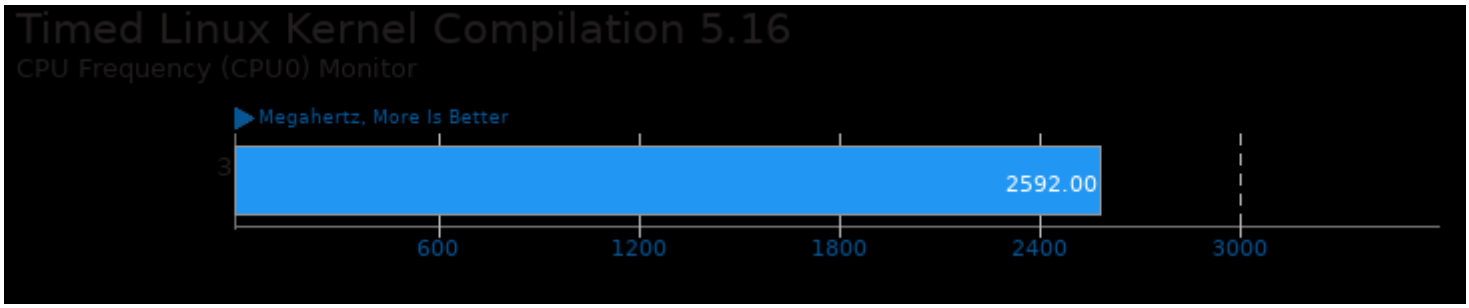

Timed Linux Kernel Compilation 5.16
CPU Usage (CPU7) Monitor
Min
Avg
Max
2 0.0 90.4 100.0
3 0.0 89.9 100.0
Percent, Fewer Is Better
100
80
60
40
20
Timed Linux Kernel Compilation 5.16
CPU Usage (CPU6) Monitor
Min
Avg
Max
2 0.0 89.8 100.0
3 0.0 90.3 100.0
Percent, Fewer Is Better
100
80
60
40
20


Timed Linux Kernel Compilation 5.16
CPU Usage (CPU5) Monitor
Min
Avg
Max
2 0.0 90.1 100.0
3 0.0 90.5 100.0
Percent, Fewer Is Better
100
80
60
40
20
Timed Linux Kernel Compilation 5.16
CPU Usage (CPU4) Monitor
Min
Avg
Max
2 0.0 90.6 100.0
3 0.0 91.3 100.0
Percent, Fewer Is Better
100
80
60
40
20


Timed Linux Kernel Compilation 5.16
CPU Usage (CPU3) Monitor
Min
Avg
Max
2 0.0 90.0 100.0
3 0.0 90.1 100.0
Percent, Fewer Is Better
100
80
60
40
20
Timed Linux Kernel Compilation 5.16
CPU Usage (CPU2) Monitor
Min
Avg
Max
2 0.0 89.8 100.0
3 0.0 91.0 100.0
Percent, Fewer Is Better
100
80
60
40
20


Timed Linux Kernel Compilation 5.16
CPU Usage (CPU1) Monitor
Min
Avg
Max
2 0.0 92.3 100.0
3 0.0 90.6 100.0
Percent, Fewer Is Better
100
80
60
40
20
Timed Linux Kernel Compilation 5.16
CPU Usage (CPU0) Monitor
Min
Avg
Max
2 0.0 91.4 100.0
3 0.0 91.4 100.0
Percent, Fewer Is Better
100
80
60
40
20
Timed Linux Kernel Compilation 5.16
CPU Frequency (CPU7) Monitor
Megahertz, More Is Better
3
2592.00
600
1200
1800
2400
3000


Timed Linux Kernel Compilation 5.16
CPU Frequency (CPU6) Monitor
Megahertz, More Is Better
2592.00
600
1200
1800
2400
3000
Timed Linux Kernel Compilation 5.16
CPU Frequency (CPU5) Monitor
Megahertz, More Is Better
2592.00
600
1200
1800
2400
3000
Timed Linux Kernel Compilation 5.16
CPU Frequency (CPU4) Monitor
Megahertz, More Is Better
2592.00
600
1200
1800
2400
3000
Timed Linux Kernel Compilation 5.16
CPU Frequency (CPU3) Monitor
Megahertz, More Is Better
2592.00
600
1200
1800
2400
3000
Timed Linux Kernel Compilation 5.16
CPU Frequency (CPU2) Monitor
Megahertz, More Is Better
2592.00
600
1200
1800
2400
3000
Timed Linux Kernel Compilation 5.16
CPU Frequency (CPU1) Monitor
Megahertz, More Is Better
2592.00
600
1200
1800
2400
3000



This file was automatically generated via the Phoronix Test Suite benchmarking software on Thursday, 28 March 2024 06:46.