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Intel Core i7-4700HQ testing with a MSI MS-1771 and Intel Haswell Mobile on Gentoo/Linux via the Phoronix Test Suite.

Automated Executive Summary

MSI_GS70_Laptop had the most wins, coming in first place for 66% of the tests.

Based on the geometric mean of all complete results, the fastest (MSI_GS70_Laptop) was 1.006x the speed of the slowest (Intel Haswell Mobile).

Test Systems:

MSI_GS70_Laptop

Intel Haswell Mobile

Processor: Intel Core i7-4700HQ @ 2.39GHz (8 Cores), Motherboard: MSI MS-1771, Memory: 16384MB, Disk: 2 x 128GB TOSHIBA THNSNF12 + 1000GB Western Digital WD10JPVX-22J, Graphics: Intel Haswell Mobile, Audio:

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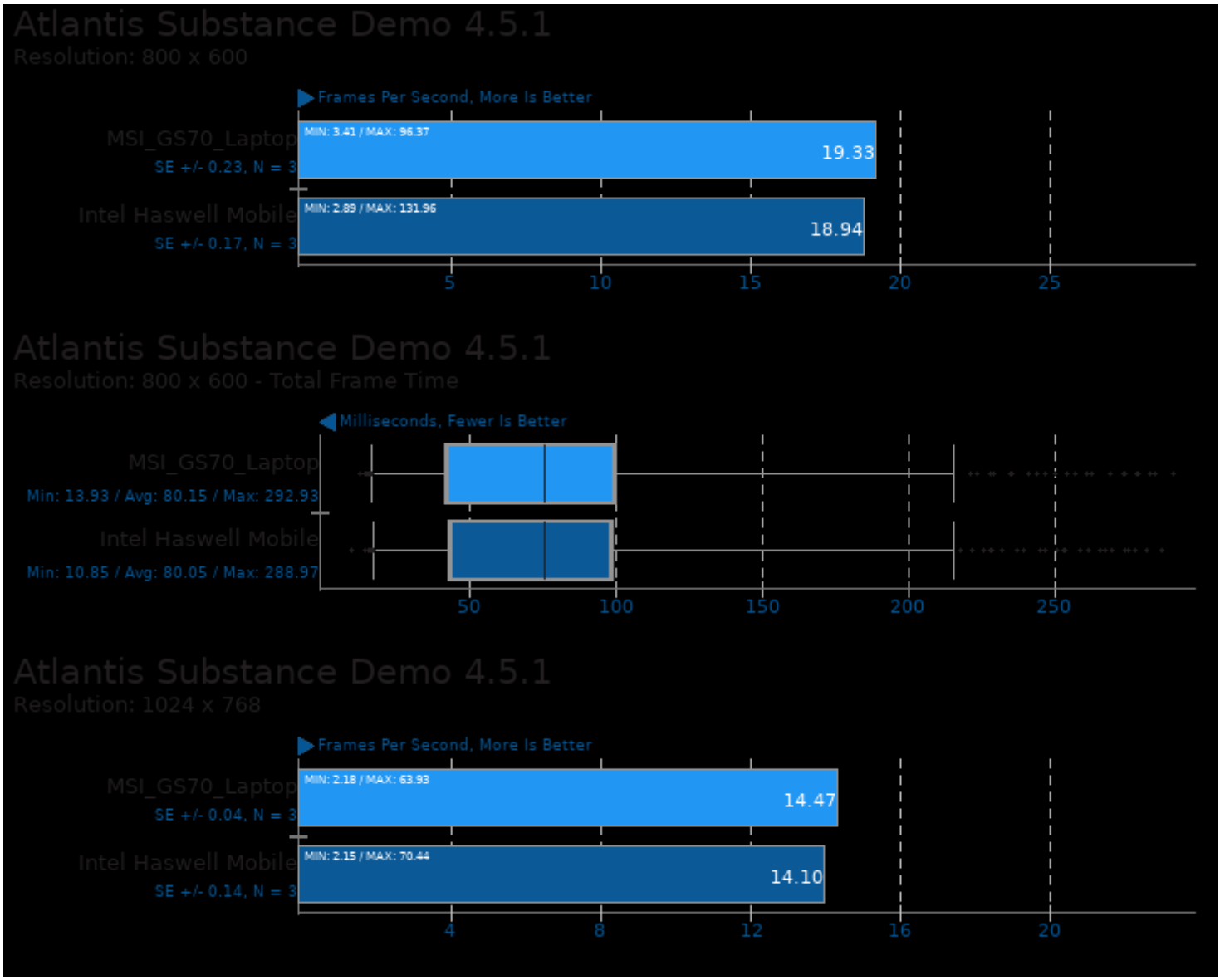
Realtek ALC892

OS: Gentoo/Linux, Kernel: 4.1.12-gentoo (x86_64), Desktop: Enlightenment, Display Server: X Server 1.17.4, OpenGL: 3.3 Mesa 11.0.6, Vulkan: 1.0.5, Compiler: GCC 4.9.3 + LLVM 3.5.0, File-System: xfs, Screen Resolution: 1920x1080

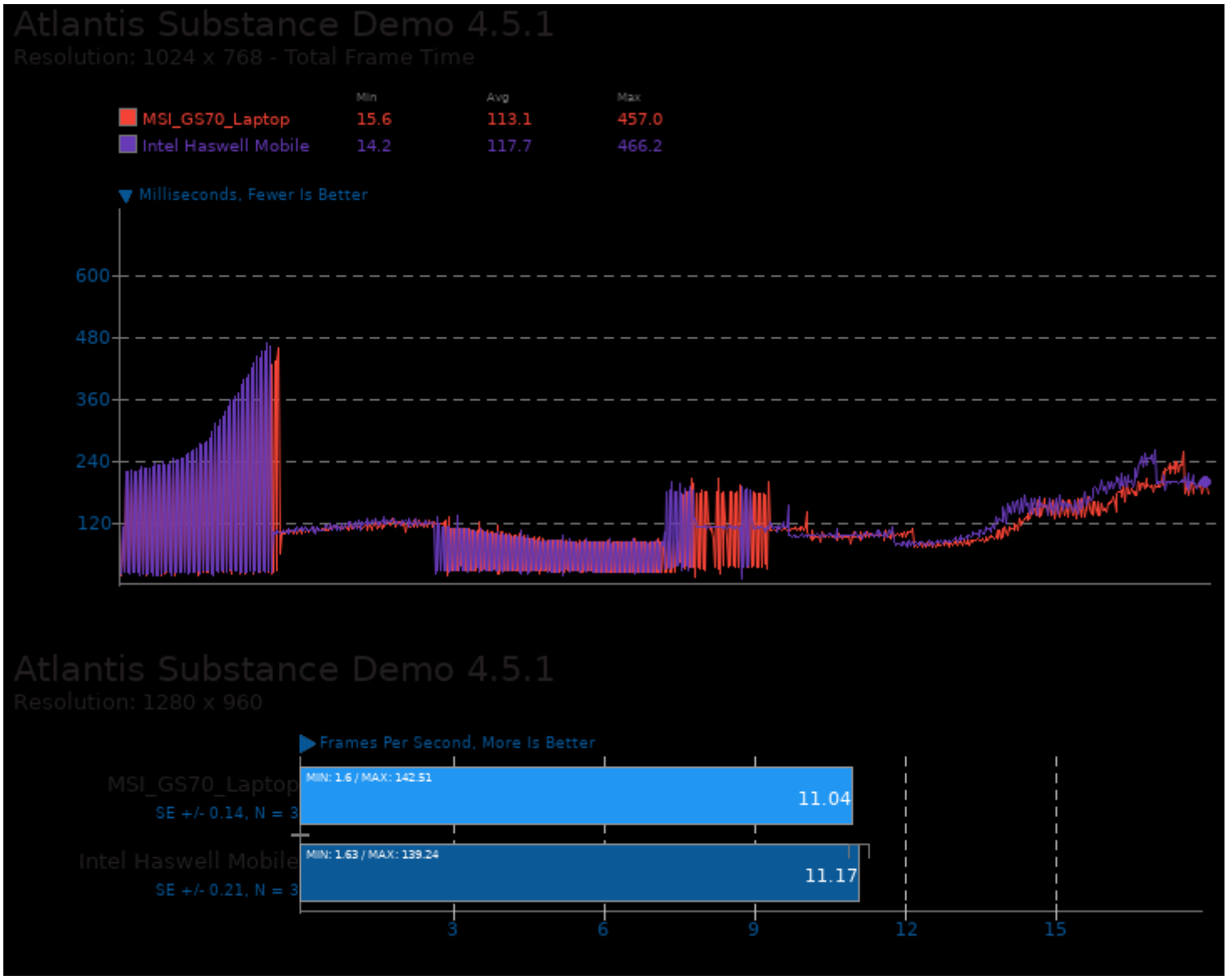
Compiler Notes: --bindir=/usr/x86_64-pc-linux-gnu/gcc-bin/4.9.3 --build=x86_64-pc-linux-gnu --datadir=/usr/share/gcc-data/x86_64-pc-linux-gnu/4.9.3 --disable-altivec --disable-fixed-point --disable-libcilkrts --disable-libgcj --disable-libmudflap --disable-libssp --disable-werror --enable-__cxa_atexit --enable-checking=release --enable-clocale=gnu --enable-languages=c,c++,fortran --enable-libgomp --enable-libsanitizer --enable-libstdcxx-time --enable-lto --enable-multilib --enable-nls --enable-obsolete --enable-secureplt --enable-shared --enable-targets=all --enable-threads=posix --host=x86_64-pc-linux-gnu --includedir=/usr/lib/gcc/x86_64-pc-linux-gnu/4.9.3/include --mandir=/usr/share/gcc-data/x86_64-pc-linux-gnu/4.9.3/man --with-multilib-list=m32,m64 --with-python-dir=/share/gcc-data/x86_64-pc-linux-gnu/4.9.3/python --without-cloog
Graphics Notes: SNA

	MSI_GS70_Laptop	Intel Haswell Mobile
Atlantis Substance Demo - 800 x 600 (FPS)	**19.33**	**18.94**
Normalized	100%	97.98%
Standard Deviation	2.1%	1.6%
Atlantis Substance Demo - 1024 x 768 (FPS)	**14.47**	**14.10**
Normalized	100%	97.44%
Standard Deviation	0.4%	1.7%
Atlantis Substance Demo - 1280 x 960 (FPS)	**11.04**	**11.17**
Normalized	98.84%	100%
Standard Deviation	2.2%	3.3%
Atlantis Substance Demo - 1280 x 1024 (FPS)	**11.00**	**10.95**
Normalized	100%	99.55%
Standard Deviation	1.2%	1.7%
Atlantis Substance Demo - 1400 x 1050 (FPS)	**11.59**	**11.56**
Normalized	100%	99.74%
Standard Deviation	0.6%	1.1%
Atlantis Substance Demo - 1920 x 1080 (FPS)	**9.42**	**9.46**
Normalized	99.58%	100%
Standard Deviation	1.1%	0.9%

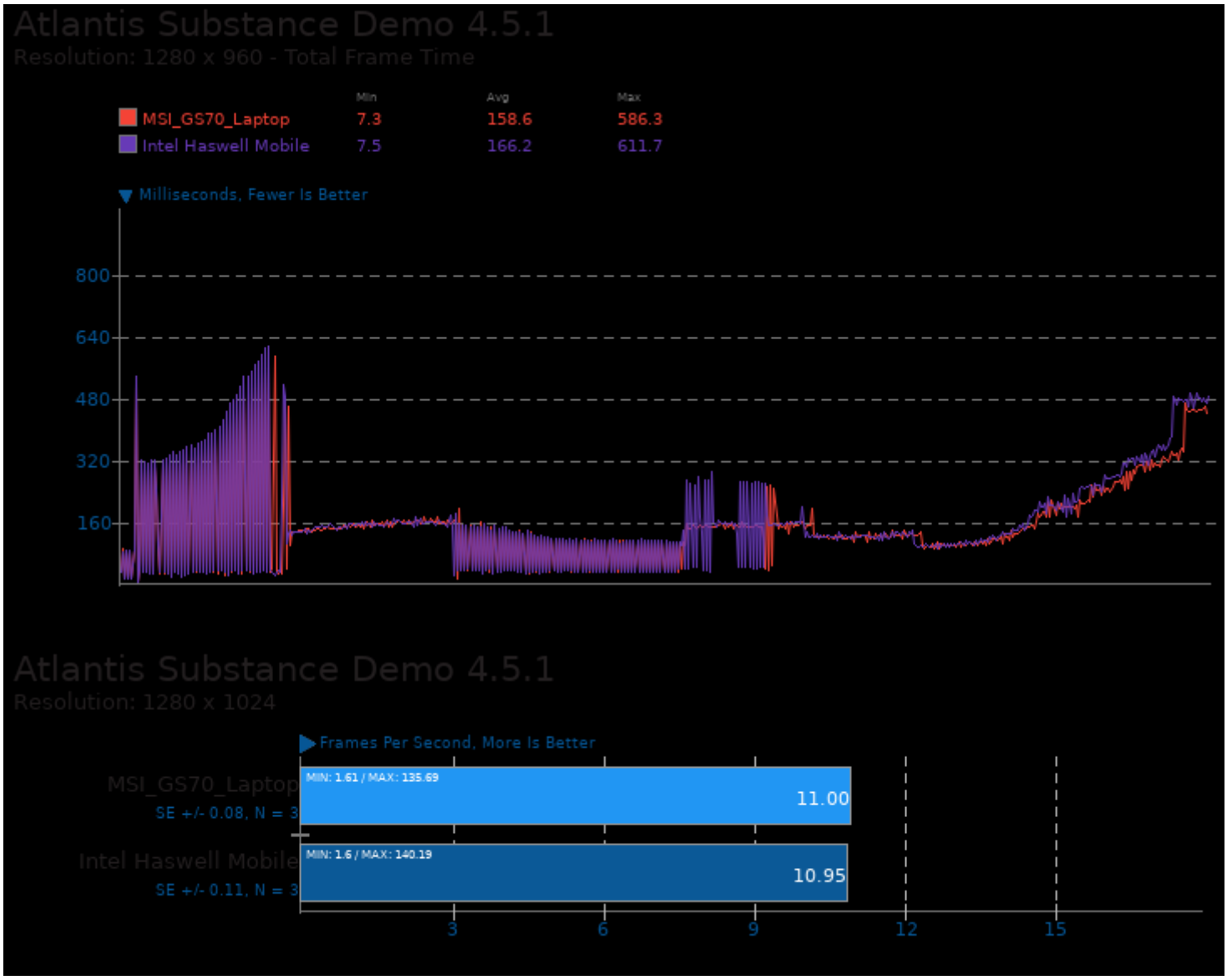
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Atlantis Substance Demo 4.5.1
Resolution: 800 x 600
Frames Per Second, More Is Better
MSI_GS70_Laptop
SE +/- 0.23, N = 3
MIN: 3.41 / MAX: 96.37
19.33
Intel Haswell Mobile
SE +/- 0.17, N = 3
MIN: 2.89 / MAX: 131.96
18.94
5
10
15
20
25
Atlantis Substance Demo 4.5.1
Resolution: 800 x 600 - Total Frame Time
Milliseconds, Fewer Is Better
MSI_GS70_Laptop
Min: 13.93 / Avg: 80.15 / Max: 292.93
Intel Haswell Mobile
Min: 10.85 / Avg: 80.05 / Max: 288.97
50
100
150
200
250
Atlantis Substance Demo 4.5.1
Resolution: 1024 x 768
Frames Per Second, More Is Better
MSI_GS70_Laptop
SE +/- 0.04, N = 3
MIN: 2.18 / MAX: 63.93
14.47
Intel Haswell Mobile
SE +/- 0.14, N = 3
MIN: 2.15 / MAX: 70.44
14.10
4
8
12
16
20

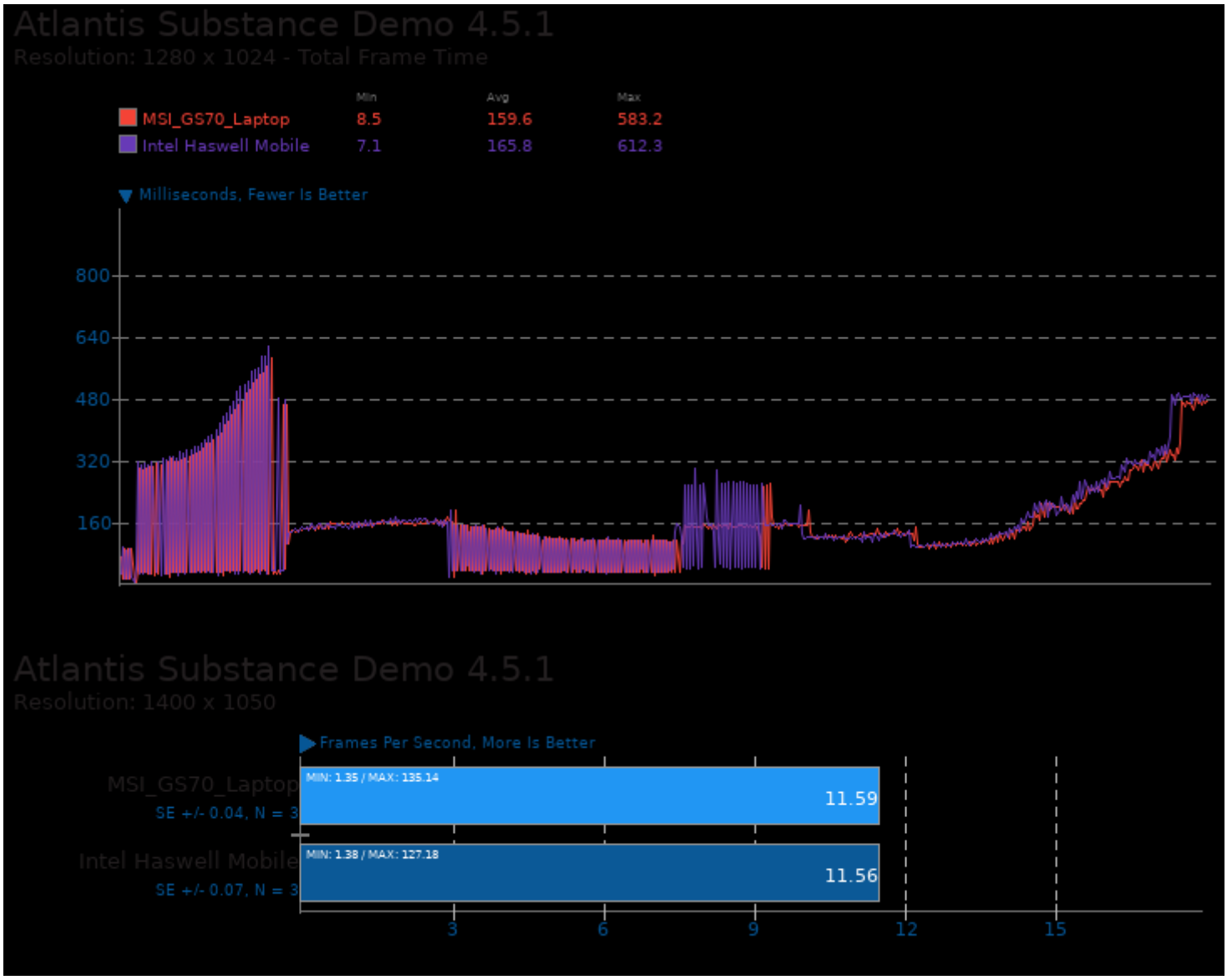
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Atlantis Substance Demo 4.5.1
Resolution: 1024 x 768 - Total Frame Time
Min
Avg
Max
MSI_GS70_Laptop
15.6
113.1
457.0
Intel Haswell Mobile
14.2
117.7
466.2
Milliseconds, Fewer Is Better
600
480
360
240
120
Atlantis Substance Demo 4.5.1
Resolution: 1280 x 960
Frames Per Second, More Is Better
MSI_GS70_Laptop
SE +/- 0.14, N = 3
MIN: 1.6 / MAX: 142.51
11.04
Intel Haswell Mobile
SE +/- 0.21, N = 3
MIN: 1.63 / MAX: 139.24
11.17
3
6
9
12
15

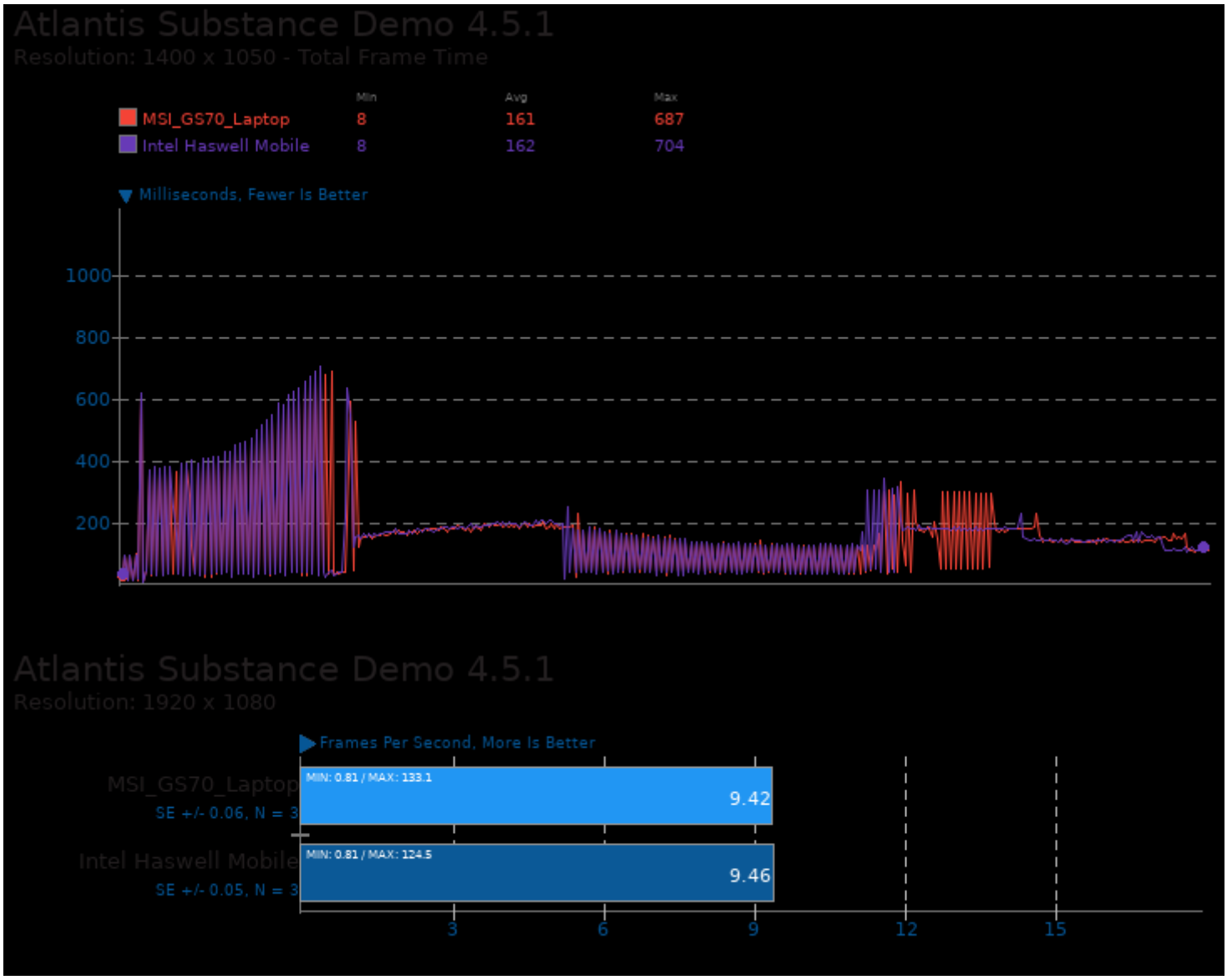
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Atlantis Substance Demo 4.5.1
Resolution: 1280 x 960 - Total Frame Time
Min
Avg
Max
MSI_GS70_Laptop
7.3
158.6
586.3
Intel Haswell Mobile
7.5
166.2
611.7
Milliseconds, Fewer Is Better
800
640
480
320
160
Atlantis Substance Demo 4.5.1
Resolution: 1280 x 1024
Frames Per Second, More Is Better
MSI_GS70_Laptop
SE +/- 0.08, N = 3
MIN: 1.61 / MAX: 135.69
11.00
Intel Haswell Mobile
SE +/- 0.11, N = 3
MIN: 1.6 / MAX: 140.19
10.95
3
6
9
12
15

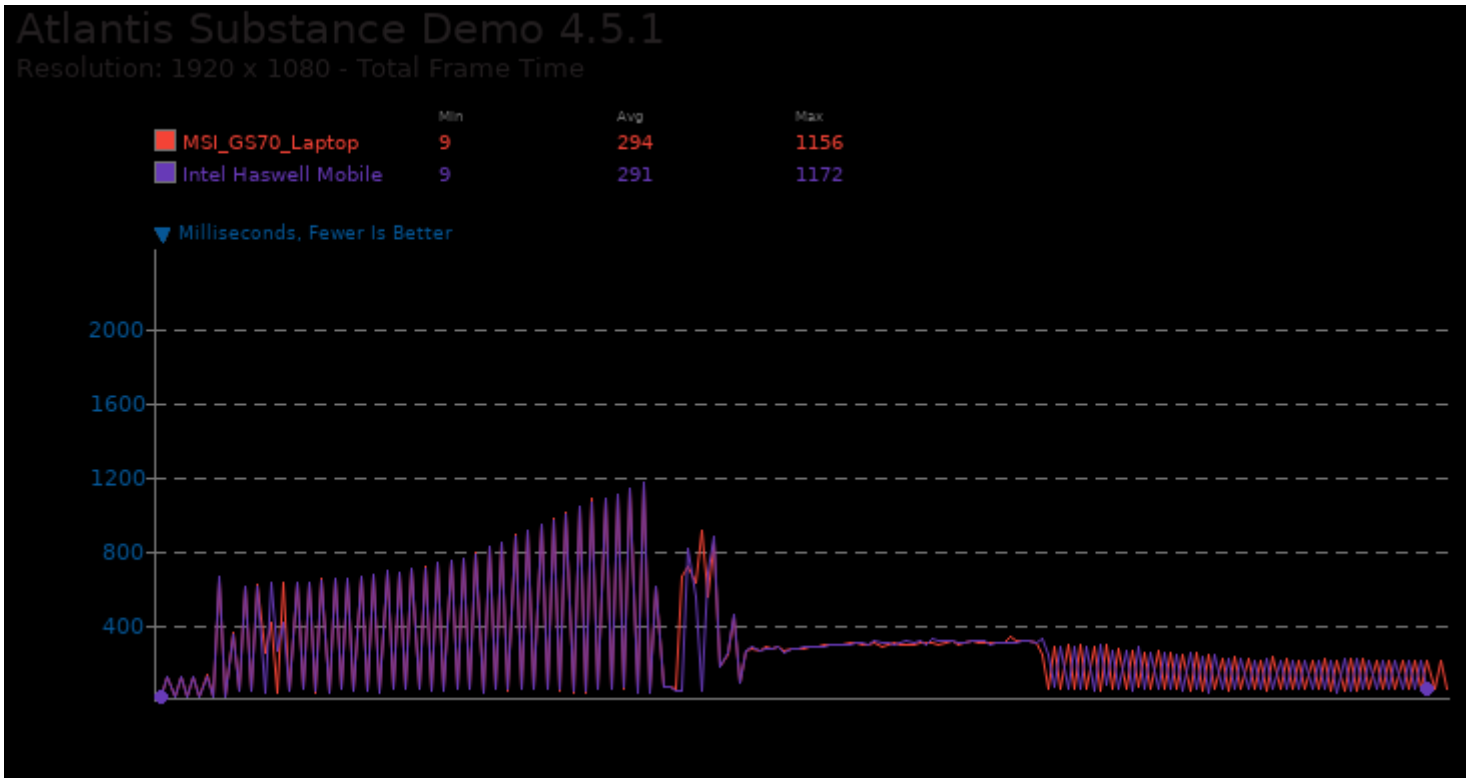
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Atlantis Substance Demo 4.5.1
Resolution: 1280 x 1024 - Total Frame Time
Min
Avg
Max
MSI_GS70_Laptop
8.5
159.6
583.2
Intel Haswell Mobile
7.1
165.8
612.3
Milliseconds, Fewer Is Better
800
640
480
320
160
Atlantis Substance Demo 4.5.1
Resolution: 1400 x 1050
Frames Per Second, More Is Better
MSI_GS70_Laptop
SE +/- 0.04, N = 3
MIN: 1.35 / MAX: 135.14
11.59
Intel Haswell Mobile
SE +/- 0.07, N = 3
MIN: 1.38 / MAX: 127.18
11.56
3
6
9
12
15

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Atlantis Substance Demo 4.5.1
Resolution: 1400 x 1050 - Total Frame Time
Min
Avg
Max
MSI_GS70_Laptop 8 161 687
Intel Haswell Mobile 8 162 704
Milliseconds, Fewer Is Better
1000
800
600
400
200
Atlantis Substance Demo 4.5.1
Resolution: 1920 x 1080
Frames Per Second, More Is Better
MSI_GS70_Laptop
SE +/- 0.06, N = 3
MIN: 0.81 / MAX: 133.1
9.42
Intel Haswell Mobile
SE +/- 0.05, N = 3
MIN: 0.81 / MAX: 124.5
9.46
3
6
9
12
15

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