



## HP DL380 generations comparison

Comparing difference generations of HP DL380 servers

### Automated Executive Summary

*Desktop i7-4790K 16GB SSD had the most wins, coming in first place for 64% of the tests.*

*Based on the geometric mean of all complete results, the fastest (G9 2xE5-2620v3 32GB 5x10K RAID5-2GB) was 5.45x the speed of the slowest (G4 2x3.60GHz 12GB 4x15K RAID5).*

### Test Systems:

#### **G4 2x3.60GHz 12GB 4x15K RAID5**

Processor: 2 x Intel Xeon @ 3.60GHz (4 Cores), Motherboard: HP ProLiant DL380 G4, Memory: 12288MB, Disk: 1045GB

OS: CentOS 6.6, Kernel: 2.6.32-504.el6.x86\_64 (x86\_64), Compiler: GCC 4.4.7 20120313, File-System: ext4

Compiler Notes: --build=x86\_64-redhat-linux --disable-dssi --disable-libjava-multilib --disable-libunwind-exceptions --enable-\_\_cxa\_atexit --enable-bootstrap --enable-checking=release --enable-gnu-unique-object --enable-java-awt=gtk --enable-java-maintainer-mode --enable-languages=c,c++,objc,obj-c++,java,fortran,ada --enable-libgck-multifile --enable-shared --enable-threads=posix --mandir=/usr/share/man --with-arch\_32=i686 --with-cloog --with-ppl --with-tune=generic  
System Notes: Python 2.6.6. SELinux: Enabled.  
Disk Mount Options Notes: barrier=1,data=ordered,relatime,rw,seclabel

## G5 E5430 4GB 6x10K RAID10noWCache

Processor: Intel Xeon E5430 @ 2.67GHz (4 Cores), Motherboard: HP ProLiant DL380 G5, Chipset: Intel 5000P MCH, Memory: 4096MB, Disk: 20GB, Graphics: ATI ES1000, Monitor: ATEN + UP91, Network: Broadcom NetXtreme II BCM5708 Gigabit

OS: CentOS 6.0, Kernel: 2.6.32-71.el6.x86\_64 (x86\_64), Desktop: GNOME, Display Driver: radeon 6.13.0, Compiler: GCC 4.4.4 20100726, File-System: ext4, Screen Resolution: 1024x768

Compiler Notes: --build=x86\_64-redhat-linux --disable-dssi --disable-libjava-multilib --disable-libunwind-exceptions --enable-\_\_cxa\_atexit --enable-bootstrap --enable-checking=release --enable-gnu-unique-object --enable-java-awt=gtk --enable-java-maintainer-mode --enable-languages=c,c++,objc,obj-c++,java,fortran,ada --enable-libgck-multifile --enable-shared --enable-threads=posix --mandir=/usr/share/man --with-arch\_32=i686 --with-cloog --with-ppl --with-tune=generic  
System Notes: Python 2.6.5.  
Disk Mount Options Notes: barrier=1,data=ordered,relatime,rw

## G5 2xE5440 4GB 4x10K RAID5

Processor: 2 x Intel Xeon E5440 @ 2.83GHz (8 Cores), Motherboard: HP ProLiant DL380 G5, Chipset: Intel 5000P MCH, Memory: 4096MB, Disk: 9GB, Graphics: AMD ES1000 128MB, Monitor: HP W1972a, Network: Broadcom NetXtreme II BCM5708 Gigabit

OS: CentOS 6.7, Kernel: 2.6.32-573.1.1.el6.x86\_64 (x86\_64), Compiler: GCC 4.4.7 20120313, File-System: ext4, Screen Resolution: 1024x768

Compiler Notes: --build=x86\_64-redhat-linux --disable-dssi --disable-libjava-multilib --disable-libunwind-exceptions --enable-\_\_cxa\_atexit --enable-bootstrap --enable-checking=release --enable-gnu-unique-object --enable-java-awt=gtk --enable-java-maintainer-mode --enable-languages=c,c++,objc,obj-c++,java,fortran,ada --enable-libgck-multifile --enable-shared --enable-threads=posix --mandir=/usr/share/man --with-arch\_32=i686 --with-cloog --with-ppl --with-tune=generic  
System Notes: Python 2.6.6.  
Disk Mount Options Notes: barrier=1,data=ordered,noatime,rw

## G6 E5504 4GB 4x10K RAID10noWCache

Processor: Intel Xeon E5504 @ 2.00GHz (4 Cores), Motherboard: HP ProLiant DL380 G6, Chipset: Intel 5520 I/O + ICH10, Memory: 4096MB, Disk: 294GB LOGICAL VOLUME + 600GB LOGICAL VOLUME + 2000GB My Book 1140, Graphics: AMD ES1000 128MB, Monitor: BenQ T720, Network: Broadcom NetXtreme II BCM5709 Gigabit

OS: CentOS 6.7, Kernel: 2.6.32-431.el6.x86\_64 (x86\_64), Compiler: GCC 4.4.7 20120313, File-System: ext4, Screen Resolution: 1280x1024

Compiler Notes: --build=x86\_64-redhat-linux --disable-dssi --disable-libjava-multilib --disable-libunwind-exceptions --enable-\_\_cxa\_atexit --enable-bootstrap --enable-checking=release --enable-gnu-unique-object --enable-java-awt=gtk --enable-java-maintainer-mode --enable-languages=c,c++,objc,obj-c++,java,fortran,ada --enable-libgck-multifile --enable-shared --enable-threads=posix --mandir=/usr/share/man --with-arch\_32=i686 --with-cloog --with-ppl --with-tune=generic  
Disk Notes: CFQ / barrier=1,data=ordered,relatime,rw,seclabel  
System Notes: Disk Scheduler: CFQ. Python 2.6.6.

## G7 E5620 8GB 4x10K RAID10noWCache

Processor: Intel Xeon E5620 @ 2.40GHz (8 Cores), Motherboard: HP ProLiant DL380 G7, Memory: 8192MB, Disk: 600GB LOGICAL VOLUME + 900GB LOGICAL VOLUME, Graphics: 128MB

OS: CentOS 6.6, Kernel: 2.6.32-504.el6.x86\_64 (x86\_64), Compiler: GCC 4.4.7 20120313, File-System: ext4, Screen Resolution: 1024x768

Compiler Notes: `--build=x86_64-redhat-linux --disable-dssi --disable-libjava-multilib --disable-libunwind-exceptions --enable-__cxa_atexit --enable-bootstrap --enable-checking=release --enable-gnu-unique-object --enable-java-awt=gtk --enable-java-maintainer-mode --enable-languages=c,c++,objc,obj-c++,java,fortran,ada --enable-libgjc-multifile --enable-shared --enable-threads=posix --mandir=/usr/share/man --with-arch_32=i686 --with-cloog --with-ppl --with-tune=generic`  
Disk Notes: CFQ / barrier=1,data=ordered,relatime,rw,seclabel  
System Notes: Disk Scheduler: CFQ. Python 2.6.6. SELinux: Enabled.

### G8 E5-2620v2 16GB 4x10K RAID10

Processor: Intel Xeon E5-2620 v2 @ 2.10GHz (12 Cores), Motherboard: HP ProLiant DL380p Gen8, Chipset: Intel Xeon E7 v2/Xeon, Memory: 16384MB, Disk: 300GB LOGICAL VOLUME + 3601GB LOGICAL VOLUME, Graphics: Matrox s MGA G200EH, Monitor: Smart Cable, Network: Broadcom NetXtreme BCM5719 Gigabit PCIe

OS: CentOS 6.6, Kernel: 2.6.32-504.1.3.el6.x86\_64 (x86\_64), Display Driver: modesetting 0.8.0, Compiler: GCC 4.4.7 20120313, File-System: ext4

Compiler Notes: `--build=x86_64-redhat-linux --disable-dssi --disable-libjava-multilib --disable-libunwind-exceptions --enable-__cxa_atexit --enable-bootstrap --enable-checking=release --enable-gnu-unique-object --enable-java-awt=gtk --enable-java-maintainer-mode --enable-languages=c,c++,objc,obj-c++,java,fortran,ada --enable-libgjc-multifile --enable-shared --enable-threads=posix --mandir=/usr/share/man --with-arch_32=i686 --with-cloog --with-ppl --with-tune=generic`  
Disk Notes: CFQ / barrier=1,data=ordered,relatime,rw,stripe=64  
Processor Notes: Scaling Governor: pcc-cpufreq userspace  
System Notes: Disk Scheduler: CFQ. Python 2.6.6.

### G9 2xE5-2620v3 32GB 5x10K RAID5-2GB

Processor: 2 x Intel Xeon E5-2620 v3 @ 2.40GHz (24 Cores), Motherboard: HP ProLiant DL380 Gen9, Chipset: Intel Haswell-E DMI2, Memory: 32768MB, Disk: 3601GB LOGICAL VOLUME, Graphics: Matrox s MGA G200EH, Monitor: LCD Monitor 1 + 7", Network: Broadcom NetXtreme BCM5719 Gigabit PCIe

OS: Red Hat Enterprise Linux 7.0, Kernel: 3.10.0-123.el7.x86\_64 (x86\_64), Desktop: GNOME Shell 3.8.4, Display Driver: modesetting 0.8.0, Compiler: GCC 4.8.2 20140120, File-System: ext4, Screen Resolution: 1280x1024

Compiler Notes: `--build=x86_64-redhat-linux --disable-libgjc --disable-libunwind-exceptions --enable-__cxa_atexit --enable-bootstrap --enable-checking=release --enable-gnu-indirect-function --enable-gnu-unique-object --enable-initfini-array --enable-languages=c,c++,objc,obj-c++,java,fortran,ada,go,lto --enable-plugin --enable-shared --enable-threads=posix --mandir=/usr/share/man --with-arch_32=x86_64 --with-linker-hash-style=gnu --with-tune=generic`  
Disk Notes: DEADLINE / data=ordered,relatime,rw,stripe=256  
Processor Notes: Scaling Governor: pcc-cpufreq performance  
System Notes: Disk Scheduler: DEADLINE. Python 2.7.5.

### Desktop i7-4790K 16GB SSD

Processor: Intel Core i7-4790K @ 4.00GHz (8 Cores), Motherboard: ASUS GRYPHON Z97 ARMOR EDITION, Chipset: Intel 4th Gen Core DRAM, Memory: 16384MB, Disk: 256GB Samsung SSD 850, Graphics: Intel Xeon E3-1200 v3/4th Gen Core IGP, Audio: C-Media CMI8788, Monitor: E2350, Network: Intel Connection

OS: CentOS 6.6, Kernel: 2.6.32-504.el6.x86\_64 (x86\_64), Compiler: GCC 4.4.7 20120313, File-System: ext4, Screen Resolution: 1920x1080

Compiler Notes: `--build=x86_64-redhat-linux --disable-dssi --disable-libjava-multilib --disable-libunwind-exceptions --enable-__cxa_atexit --enable-bootstrap --enable-checking=release --enable-gnu-unique-object --enable-java-awt=gtk --enable-java-maintainer-mode --enable-languages=c,c++,objc,obj-c++,java,fortran,ada --enable-libgjc-multifile --enable-shared --enable-threads=posix --mandir=/usr/share/man --with-arch_32=i686 --with-cloog --with-ppl --with-tune=generic`  
Disk Notes: CFQ / barrier=1,data=ordered,relatime,rw,seclabel  
Processor Notes: Scaling Governor: acpi-cpufreq ondemand  
System Notes: Disk Scheduler: CFQ. Python 2.6.6. SELinux: Enabled.

### AWS t2.small

Processor: Intel Xeon E5-2670 v2 @ 2.49GHz (1 Core), Motherboard: Xen HVM domU, Chipset: Intel 440FX- 82441FX PMC, Memory: 2048MB, Disk: 8GB, Graphics: Cirrus Logic GD 5446

OS: CentOS 6.7, Kernel: 2.6.32-573.7.1.el6.x86\_64 (x86\_64), File-System: ext4, System Layer: Xen HVM domU 4.2.amazon

Compiler Notes: --build=x86\_64-redhat-linux --disable-dssi --disable-libjava-multilib --disable-libunwind-exceptions --enable-\_\_cxa\_atexit --enable-bootstrap --enable-checking=release --enable-gnu-unique-object --enable-java-awt=gtk --enable-java-maintainer-mode --enable-languages=c,c++,objc,obj-c++,java,fortran,ada --enable-libgck-multifile --enable-shared --enable-threads=posix --mandir=/usr/share/man --with-arch\_32=i686 --with-cloog --with-ppl --with-tune=generic  
Disk Notes: CFQ / barrier=1,data=ordered,relatime,rw,seclabel  
System Notes: Disk Scheduler: CFQ. Python 2.6.6. SELinux: Enabled.

## AWS t2.medium

Processor: Intel Xeon E5-2670 v2 @ 2.49GHz (2 Cores), Motherboard: Xen HVM domU, Chipset: Intel 440FX- 82441FX PMC, Memory: 4096MB, Disk: 8GB, Graphics: Cirrus Logic GD 5446

OS: CentOS 6.7, Kernel: 2.6.32-573.7.1.el6.x86\_64 (x86\_64), Compiler: GCC 4.4.7 20120313, File-System: ext4, System Layer: Xen HVM domU 4.2.amazon

Compiler Notes: --build=x86\_64-redhat-linux --disable-dssi --disable-libjava-multilib --disable-libunwind-exceptions --enable-\_\_cxa\_atexit --enable-bootstrap --enable-checking=release --enable-gnu-unique-object --enable-java-awt=gtk --enable-java-maintainer-mode --enable-languages=c,c++,objc,obj-c++,java,fortran,ada --enable-libgck-multifile --enable-shared --enable-threads=posix --mandir=/usr/share/man --with-arch\_32=i686 --with-cloog --with-ppl --with-tune=generic  
Disk Notes: CFQ / barrier=1,data=ordered,relatime,rw  
System Notes: Disk Scheduler: CFQ. Python 2.6.6.

## AWS t2.large

## AWS m4.large

Processor: Intel Xeon E5-2676 v3 @ 2.40GHz (2 Cores), Motherboard: Xen HVM domU, Chipset: Intel 440FX- 82441FX PMC, Memory: 8192MB, Disk: 8GB, Graphics: Cirrus Logic GD 5446

OS: CentOS 6.7, Kernel: 2.6.32-573.7.1.el6.x86\_64 (x86\_64), Compiler: GCC 4.4.7 20120313, File-System: ext4, System Layer: Xen HVM domU 4.2.amazon

Compiler Notes: --build=x86\_64-redhat-linux --disable-dssi --disable-libjava-multilib --disable-libunwind-exceptions --enable-\_\_cxa\_atexit --enable-bootstrap --enable-checking=release --enable-gnu-unique-object --enable-java-awt=gtk --enable-java-maintainer-mode --enable-languages=c,c++,objc,obj-c++,java,fortran,ada --enable-libgck-multifile --enable-shared --enable-threads=posix --mandir=/usr/share/man --with-arch\_32=i686 --with-cloog --with-ppl --with-tune=generic  
Disk Notes: CFQ / barrier=1,data=ordered,relatime,rw  
System Notes: Disk Scheduler: CFQ. Python 2.6.6.

## AWS m4.xlarge

Processor: Intel Xeon E5-2676 v3 @ 2.40GHz (4 Cores), Motherboard: Xen HVM domU, Chipset: Intel 440FX- 82441FX PMC, Memory: 16384MB, Disk: 8GB, Graphics: Cirrus Logic GD 5446

OS: CentOS 6.7, Kernel: 2.6.32-573.7.1.el6.x86\_64 (x86\_64), Compiler: GCC 4.4.7 20120313, File-System: ext4, System Layer: Xen HVM domU 4.2.amazon

Compiler Notes: --build=x86\_64-redhat-linux --disable-dssi --disable-libjava-multilib --disable-libunwind-exceptions --enable-\_\_cxa\_atexit --enable-bootstrap --enable-checking=release --enable-gnu-unique-object --enable-java-awt=gtk --enable-java-maintainer-mode --enable-languages=c,c++,objc,obj-c++,java,fortran,ada --enable-libgck-multifile --enable-shared --enable-threads=posix --mandir=/usr/share/man --with-arch\_32=i686 --with-cloog --with-ppl --with-tune=generic  
Disk Notes: CFQ / barrier=1,data=ordered,relatime,rw  
System Notes: Disk Scheduler: CFQ. Python 2.6.6.

## HP DL380 generations comparison

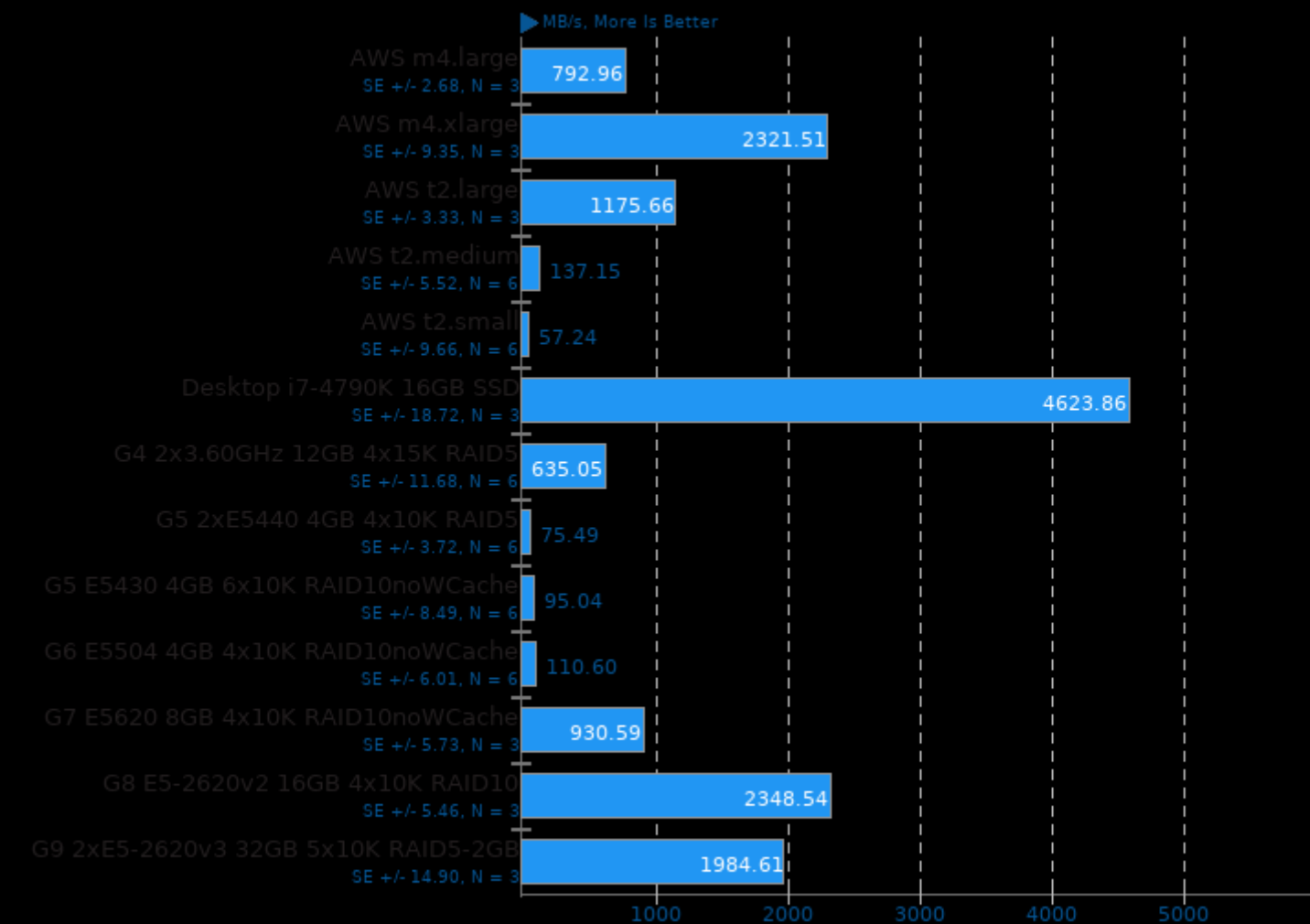
	G4	G5	G5	G6	G7	G8	G9	Desкто	AWS	AWS	AWS	AWS	AWS
	2x3.60	E5430	2xE544	E5504	E5620	E5-262	2xE5-2	p	t2.small	t2.medium	t2.large	m4.large	m4.xlarge
	GHz	4GB	0 4GB	4GB	8GB	0v2	620v3	i7-4790	I	ium	e	ge	rge
	12GB	6x10K	4x10K	4x10K	4x10K	16GB	32GB	K					
	4x15K	RAID1	RAID5	RAID1	RAID1	4x10K	5x10K	16GB					
	RAID5	0noWC		0noWC	0noWC	RAID1	RAID5-	SSD					
	ache	ache		ache	ache	0	2GB						
AIO-Stress -	635.05	95.04	75.49	110.60	930.59	2349	1985	4624	57.24	137.15	1176	792.96	2322
Rand Write													
(MB/s)													
Normalized	13.73%	2.06%	1.63%	2.39%	20.13%	50.79%	42.92%	100%	1.24%	2.97%	25.43%	17.15%	50.21%
Standard Deviation	4.5%	21.9%	12.1%	13.3%	1.1%	0.4%	1.3%	0.7%	41.3%	9.9%	0.5%	0.6%	0.7%
Apache	4955	8499	12745	10258	11426	17373	21815	28979	4860	7795	9864	7029	10751
Benchmark -													
S.W.P.S													
(Reqs/sec)													
Normalized	17.1%	29.33%	43.98%	35.4%	39.43%	59.95%	75.28%	100%	16.77%	26.9%	34.04%	24.25%	37.1%
Standard Deviation	0.2%	3.3%	0.1%	0.3%	1.4%	0.9%	1.2%	0.5%	0.8%	0.3%	0.2%	1.6%	0.2%
PHPBench -	36141	58160	60672	45564	56815	67968	121096	134799	28224	76471	80933	80760	81113
P.B.S (Score)													
Normalized	26.81%	43.15%	45.01%	33.8%	42.15%	50.42%	89.83%	100%	20.94%	56.73%	60.04%	59.91%	60.17%
Standard Deviation	1.4%	0.7%	3.3%	0.7%	2%	2.6%	0.3%	2.1%	62.5%	0.8%	0.4%	0.2%	0.4%
OpenSSL -	69.90	230.70	487.53	178.30	238.37	537.10	1284	729.27	95.17	193.00	204.43	111.53	223.27
R.4.b.P													
(Signs/sec)													
Normalized	5.44%	17.97%	37.97%	13.88%	18.56%	41.83%	100%	56.79%	7.41%	15.03%	15.92%	8.69%	17.39%
Standard Deviation	0%	0.4%	0.8%	0.1%	0.2%	0%	0.1%	0.4%	0.3%	0.6%	0.1%	0.2%	0%
PostgreSQL	59.81	247.63	1673	230.78	401.29	7412		985.68	759.80	1039	1350	1289	1650
pgbench -													
T.B.T.P.S (TPS)													
Normalized	0.81%	3.34%	22.57%	3.11%	5.41%	100%		13.3%	10.25%	14.02%	18.21%	17.39%	22.27%
Standard Deviation	1.2%	0.5%	0.6%	0.2%	0.8%	0.1%		0.2%	0.9%	1.7%	1.1%	0.6%	0.7%
PyBench -	6607	4044	3677	5421	4025	3726	2192	1721	3334	3137	2773	2792	2791
T.F.A.T.T													
(Milliseconds)													
Normalized	26.05%	42.56%	46.8%	31.75%	42.76%	46.19%	78.51%	100%	51.62%	54.86%	62.06%	61.64%	61.66%
Standard Deviation	0.5%	0.1%	0.3%	0.1%	0.2%	0.1%	0.3%	0.1%	0%	0.1%	0.7%	0.1%	0%
SQLite - D.T.D	659.82	382.06	8.98	390.52	407.35	6.54	4.03	97.10	55.28	55.09	42.34	41.26	44.66
(sec)													
Normalized	0.61%	1.05%	44.88%	1.03%	0.99%	61.62%	100%	4.15%	7.29%	7.32%	9.52%	9.77%	9.02%
Standard Deviation	1.2%	1%	3.5%	1%	1.2%	0.3%	1.5%	0.3%	1.5%	2.3%	0.1%	0.4%	0.3%
Unpacking The	25.34	12.46	12.23	19.49	14.71	12.16	9.40	6.67	15.43	11.74	11.78	12.23	12.07
Linux Kernel -													
linux-2.6.32.tar.													
bz2 (sec)													
Normalized	26.32%	53.53%	54.54%	34.22%	45.34%	54.85%	70.96%	100%	43.23%	56.81%	56.62%	54.54%	55.26%
Standard Deviation	5.1%	2.6%	3.6%	2.9%	0.9%	3.5%	2.4%	2.5%	7.5%	5.2%	1.7%	0.1%	2.6%

## HP DL380 generations comparison

<b>Loopback TCP</b>													
<b>Network</b>													
<b>Performance -</b>													
<b>T.T.T.1.V.L</b>													
<b>Normalized</b>		37.88		25.32		21.07							
<b>Standard Deviation</b>													
<b>Timed PHP</b>													
<b>Compilation -</b>	117.84	49.92	31.52	57.69	36.96	26.98	16.90	20.19	118.12	60.84	56.91	84.53	46.13
<b>Time To</b>													
<b>Compile (sec)</b>													
<b>Normalized</b>	14.34%	33.85%	53.62%	29.29%	45.73%	62.64%	100%	83.7%	14.31%	27.78%	29.7%	19.99%	36.64%
<b>Standard Deviation</b>	0.1%	0.1%	0.5%	0.1%	0.2%	0.2%	1.1%	1%	0.1%	0.1%	0.2%	0.1%	0%
<b>Parallel BZIP2</b>													
<b>Compression -</b>	37.74	19.29	7.36	21.19	11.71	7.54	3.28	6.11	50.78	24.39	22.56	35.00	18.17
<b>2.F.C (sec)</b>													
<b>Normalized</b>	8.69%	17%	44.57%	15.48%	28.01%	43.5%	100%	53.68%	6.46%	13.45%	14.54%	9.37%	18.05%
<b>Standard Deviation</b>	0.5%	20.2%	3.7%	0.2%	0.5%	0.1%	0.9%	5.3%	0.1%	0.9%	0.2%	0.7%	3.2%
<b>Gzip</b>													
<b>Compression -</b>	22.99	17.42	18.65	23.54	19.03	17.93	13.25	9.33	31.54	15.92	15.43	15.64	15.60
<b>2.F.C (sec)</b>													
<b>Normalized</b>	40.58%	53.56%	50.03%	39.63%	49.03%	52.04%	70.42%	100%	29.58%	58.61%	60.47%	59.65%	59.81%
<b>Standard Deviation</b>	0.3%	0.5%	8.1%	3.1%	0.2%	0.7%	0.3%	1.4%	7%	1%	0.9%	1.6%	2.9%
<b>LAME MP3</b>													
<b>Encoding -</b>	35.73	24.75	23.18	31.07	24.84	20.03	15.31	10.87	18.28	17.65	17.89	17.90	17.90
<b>WAV To MP3</b>													
<b>Normalized</b>	30.42%	43.92%	46.89%	34.99%	43.76%	54.27%	71%	100%	59.46%	61.59%	60.76%	60.73%	60.73%
<b>Standard Deviation</b>	0.2%	0.5%	0.2%	0%	0.1%	0.1%	1.4%	0.2%	0.4%	0.5%	0.2%	0.1%	0.2%
<b>GnuPG - 1.F.E</b>													
<b>Compression -</b>	17.52	19.02	18.32	27.74	22.08	12.37	9.33	6.64	11.58	11.07	11.02	11.05	10.88
<b>(sec)</b>													
<b>Normalized</b>	37.9%	34.91%	36.24%	23.94%	30.07%	53.68%	71.17%	100%	57.34%	59.98%	60.25%	60.09%	61.03%
<b>Standard Deviation</b>	0.2%	0.5%	3.4%	0.6%	0.2%	0.6%	1.6%	1%	5%	2.8%	1.6%	4%	0.2%
<b>System XZ</b>													
<b>Decompression</b>		6.93	6.31	8.47		6.49	4.99	3.70	6.13	5.87	6.13	6.09	6.02
<b>- P.T.S.v.2.1</b>													
<b>Normalized</b>		53.39%	58.64%	43.68%		57.01%	74.15%	100%	60.36%	63.03%	60.36%	60.76%	61.46%
<b>Standard Deviation</b>		1.3%	0.2%	0.1%		0%	0.2%	0.3%	1%	1%	0.4%	0.1%	0.2%

## AIO-Stress 0.21

Test: Random Write

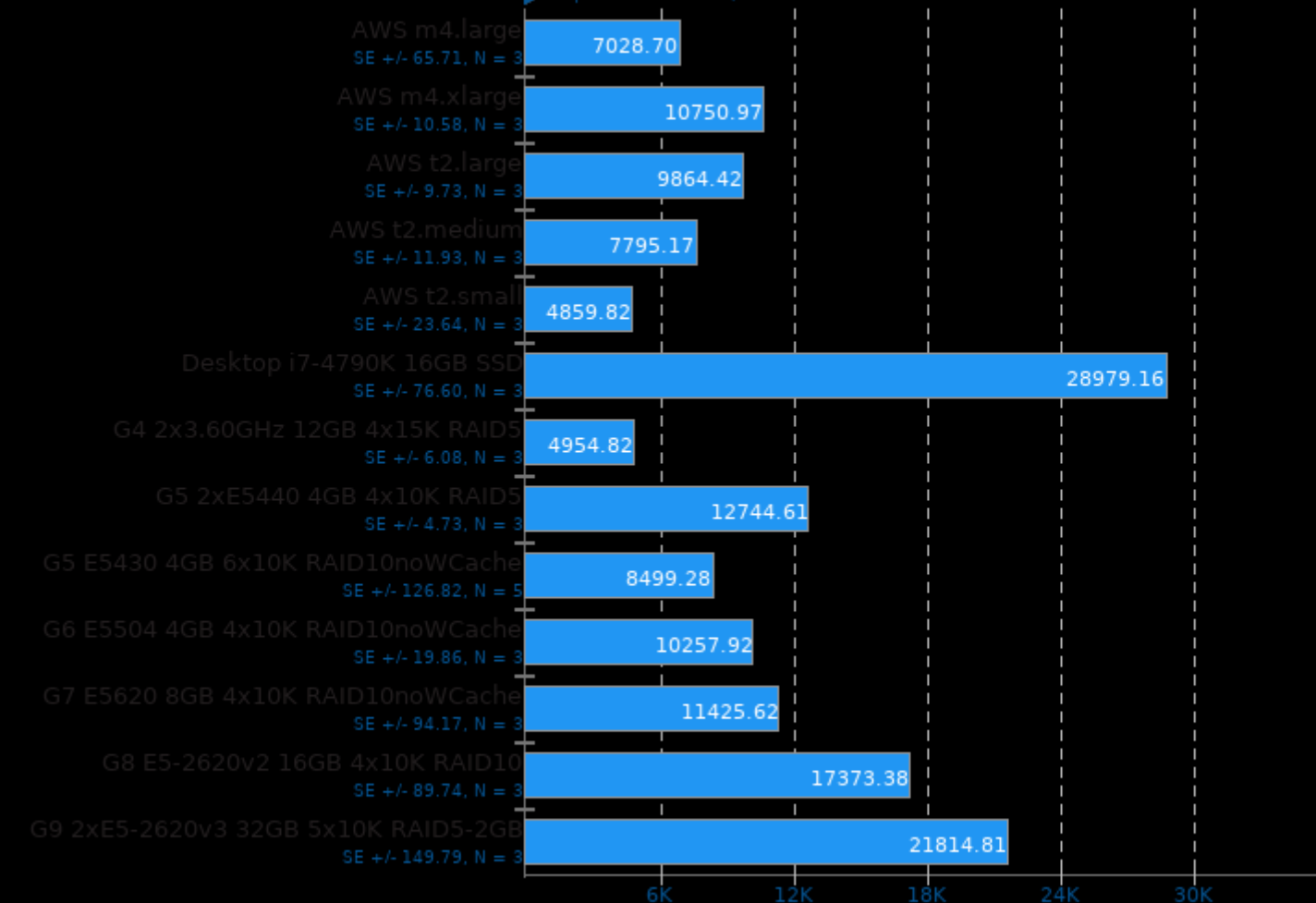


1. (CC) gcc options: -pthread -laio

## Apache Benchmark 2.4.7

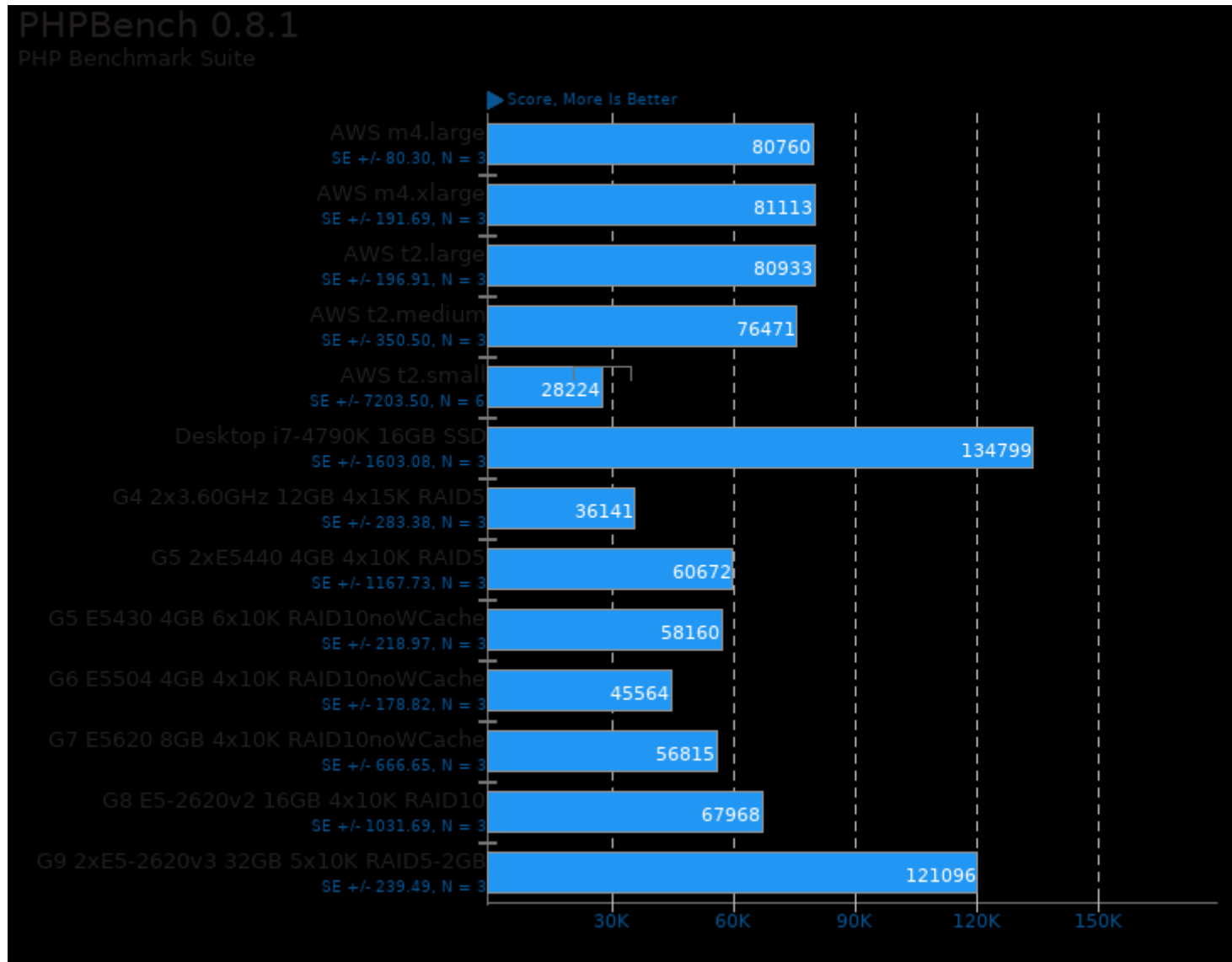
Static Web Page Serving

Requests Per Second, More Is Better



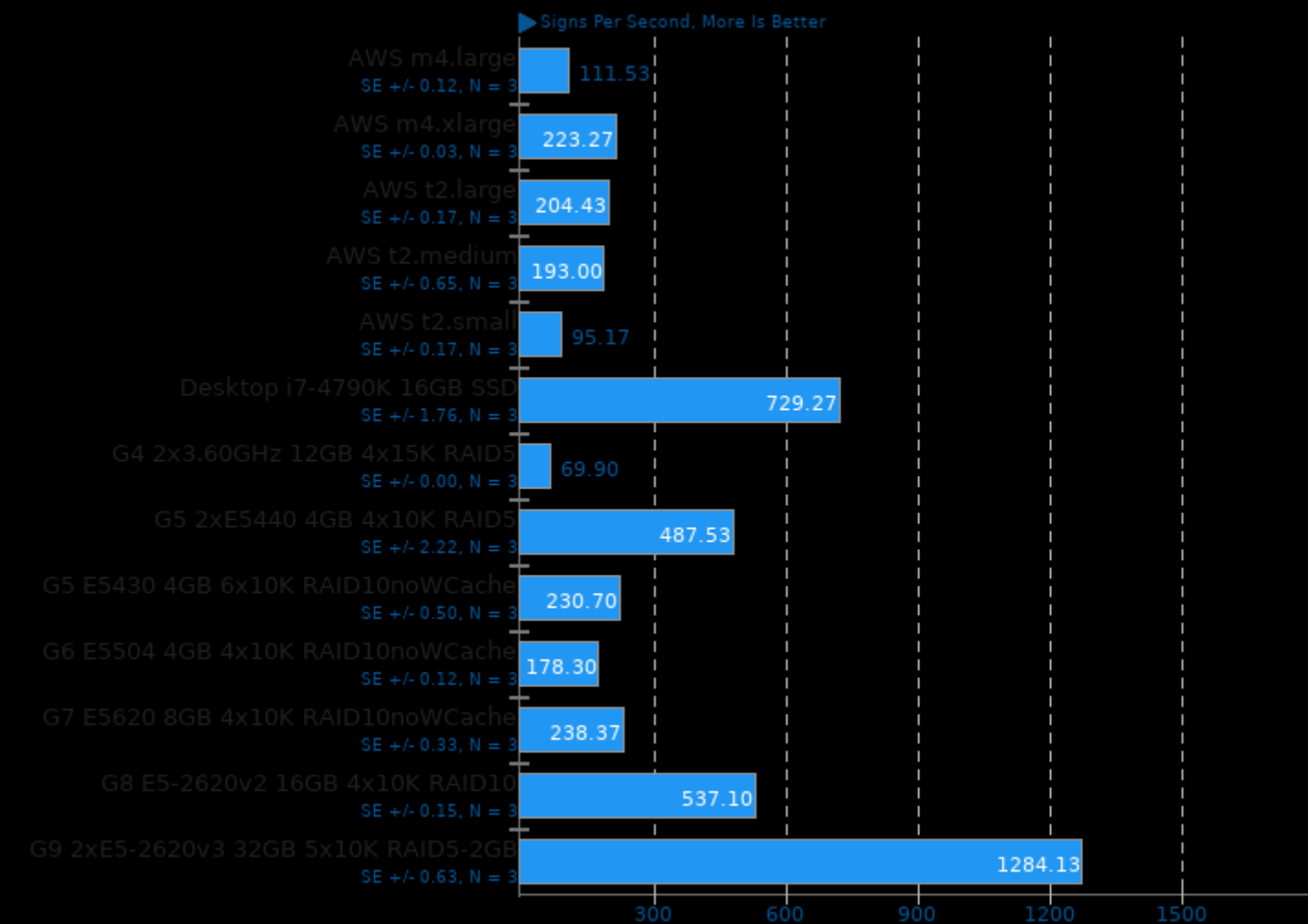
1. (CC) gcc options: -shared -fPIC -O2 -pthread



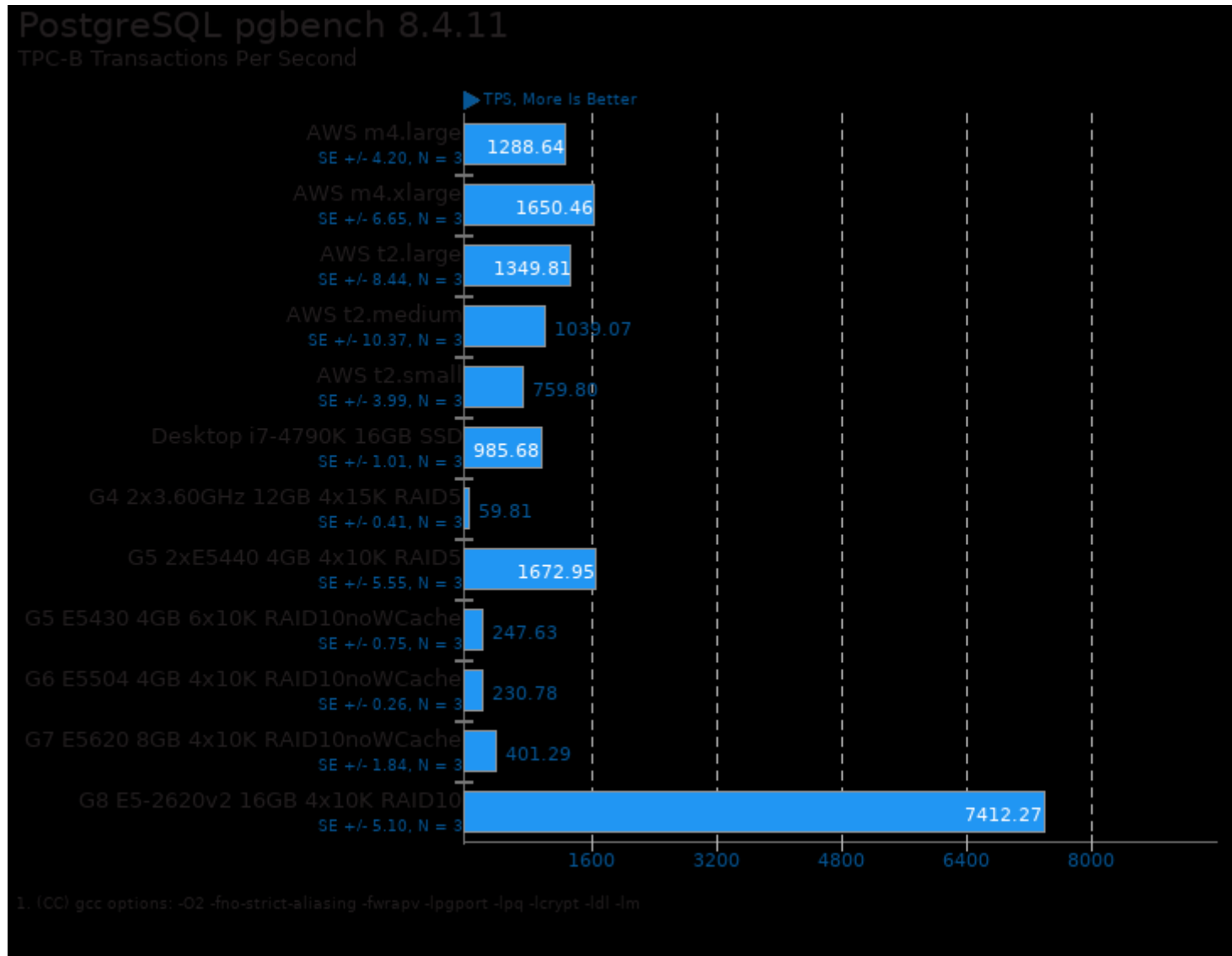


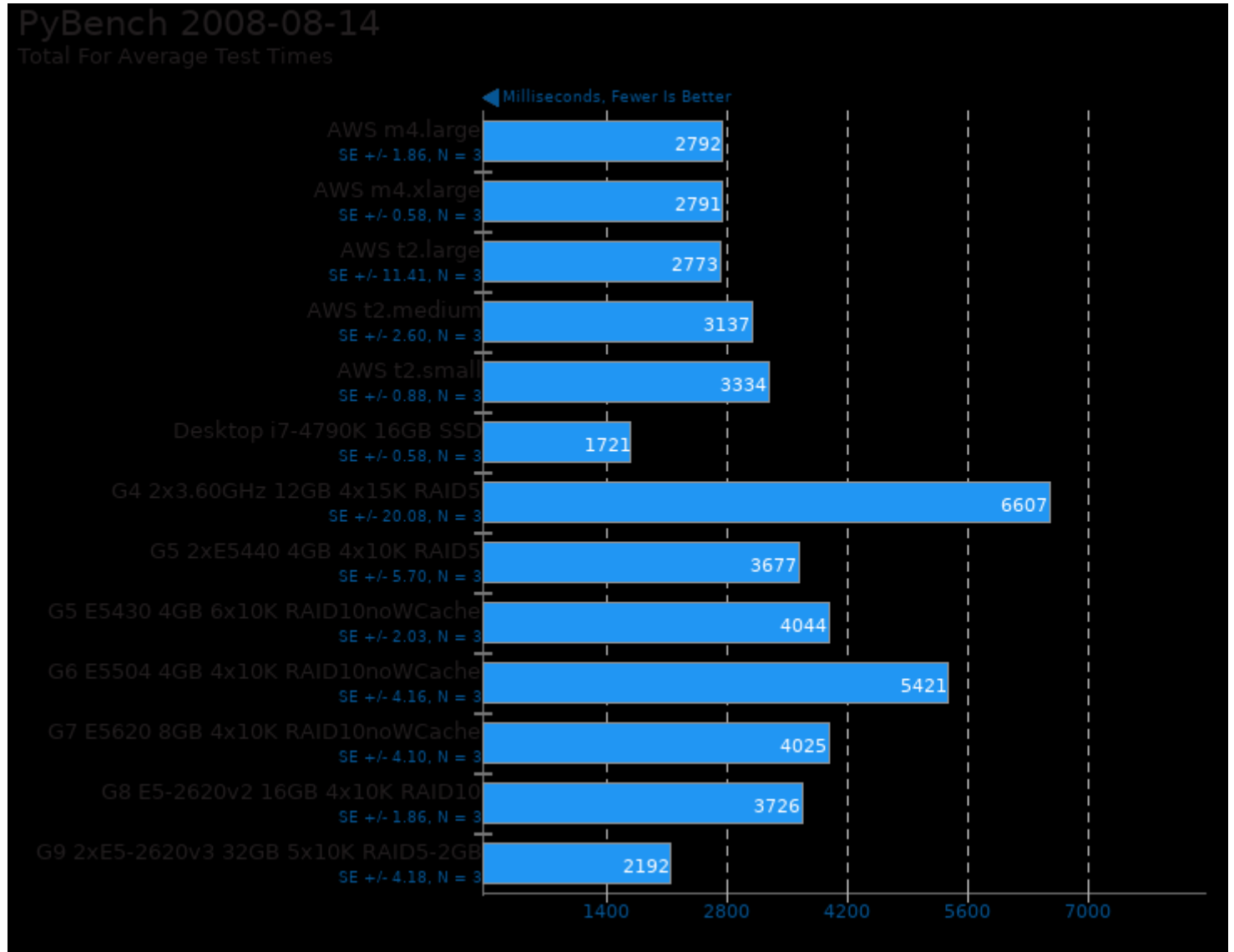
## OpenSSL 1.0.1g

RSA 4096-bit Performance



1. (CC) gcc options: -m64 -O3 -lssl -lcrypto -ldl

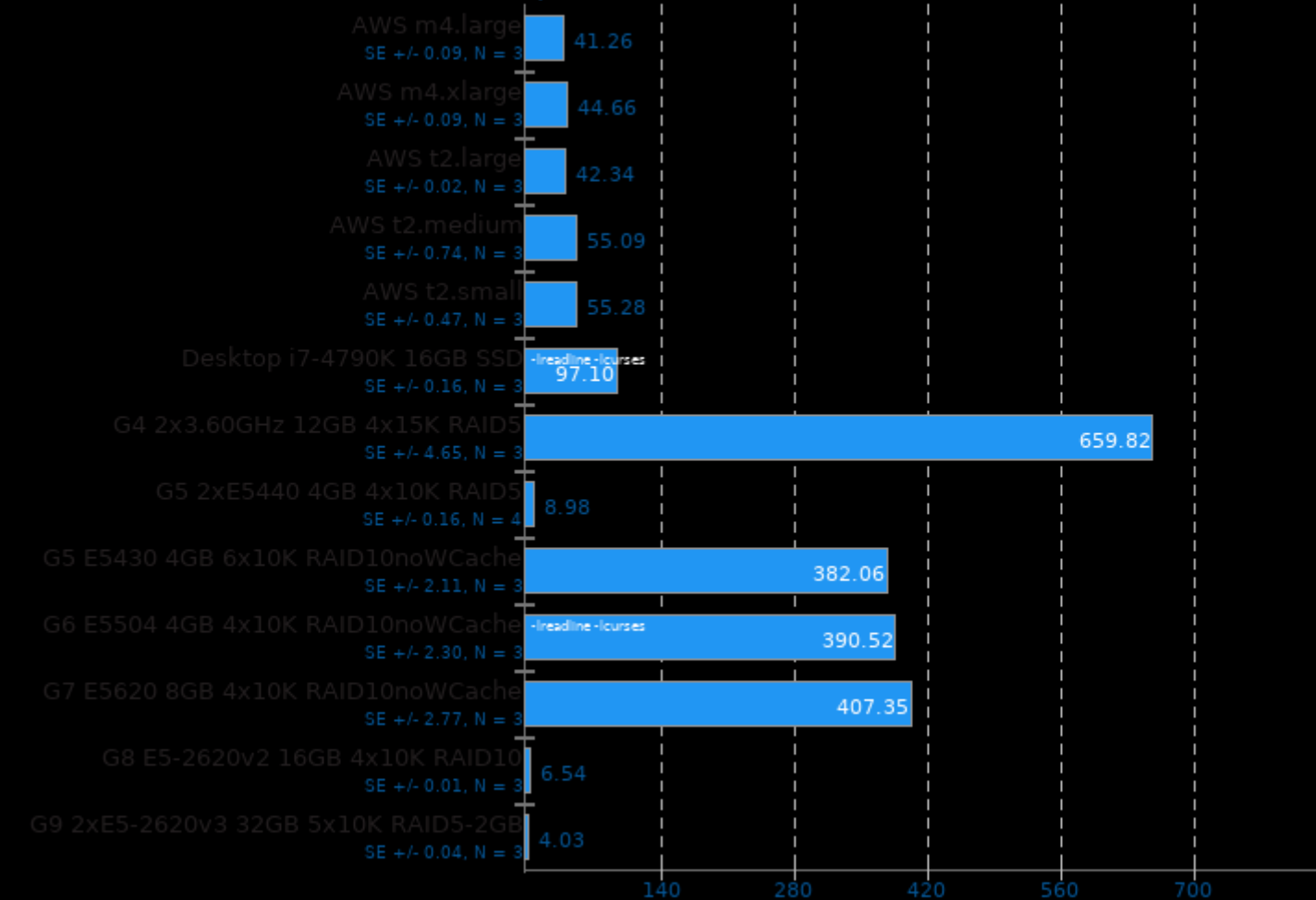




## SQLite 3.7.3

Test Target: Default Test Directory

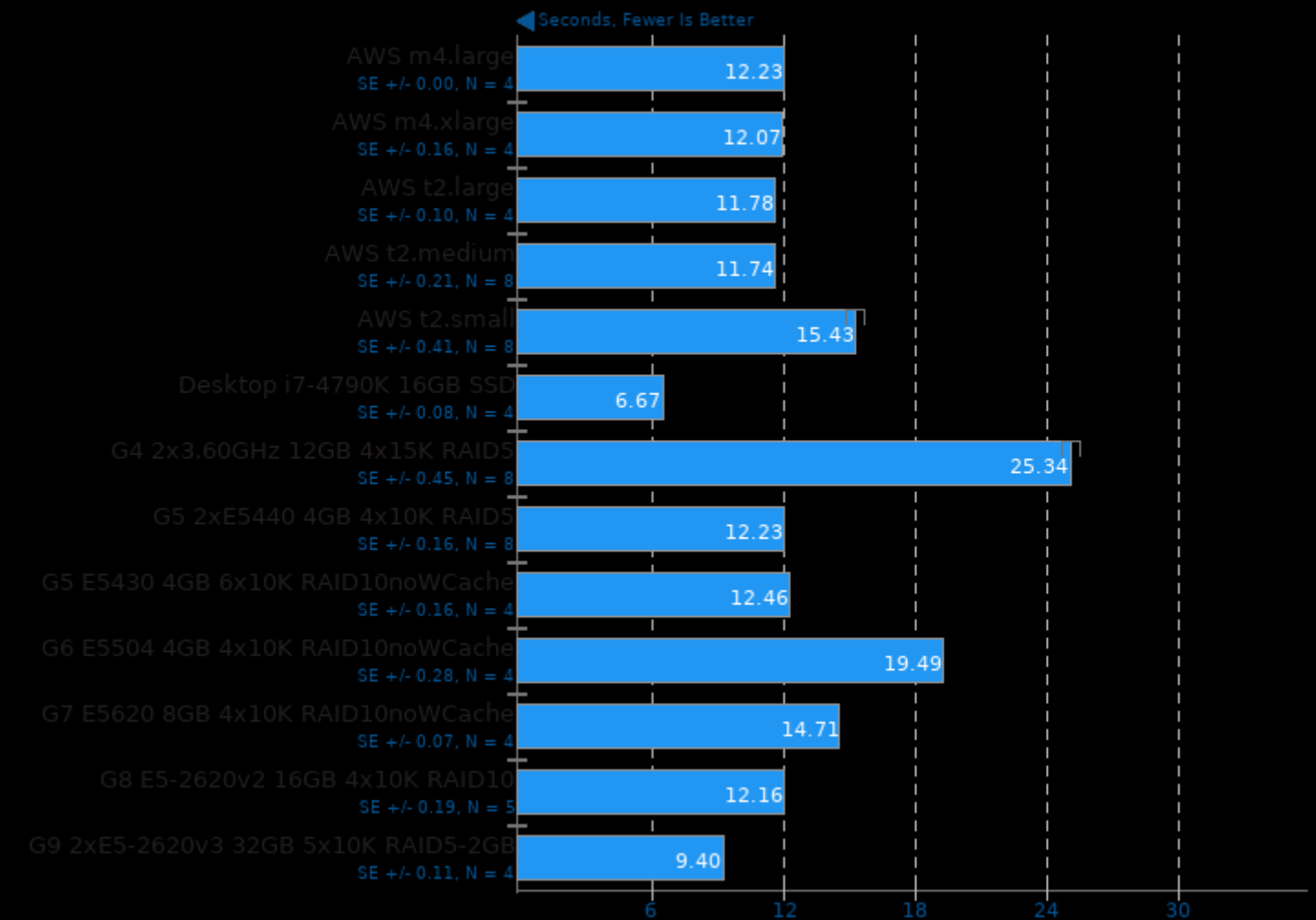
Seconds, Fewer Is Better



1. (CC) gcc options: -O2 -ldl -lpthread

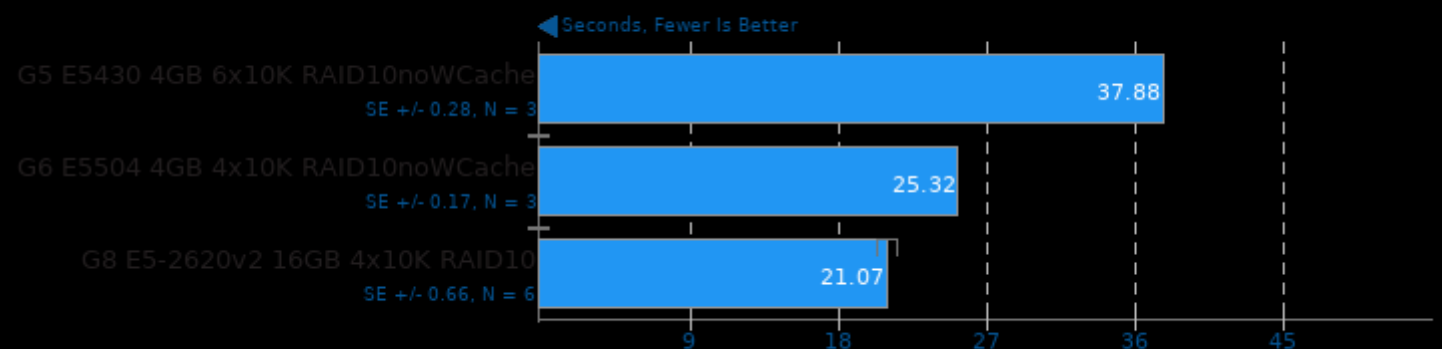
## Unpacking The Linux Kernel

linux-2.6.32.tar.bz2



## Loopback TCP Network Performance

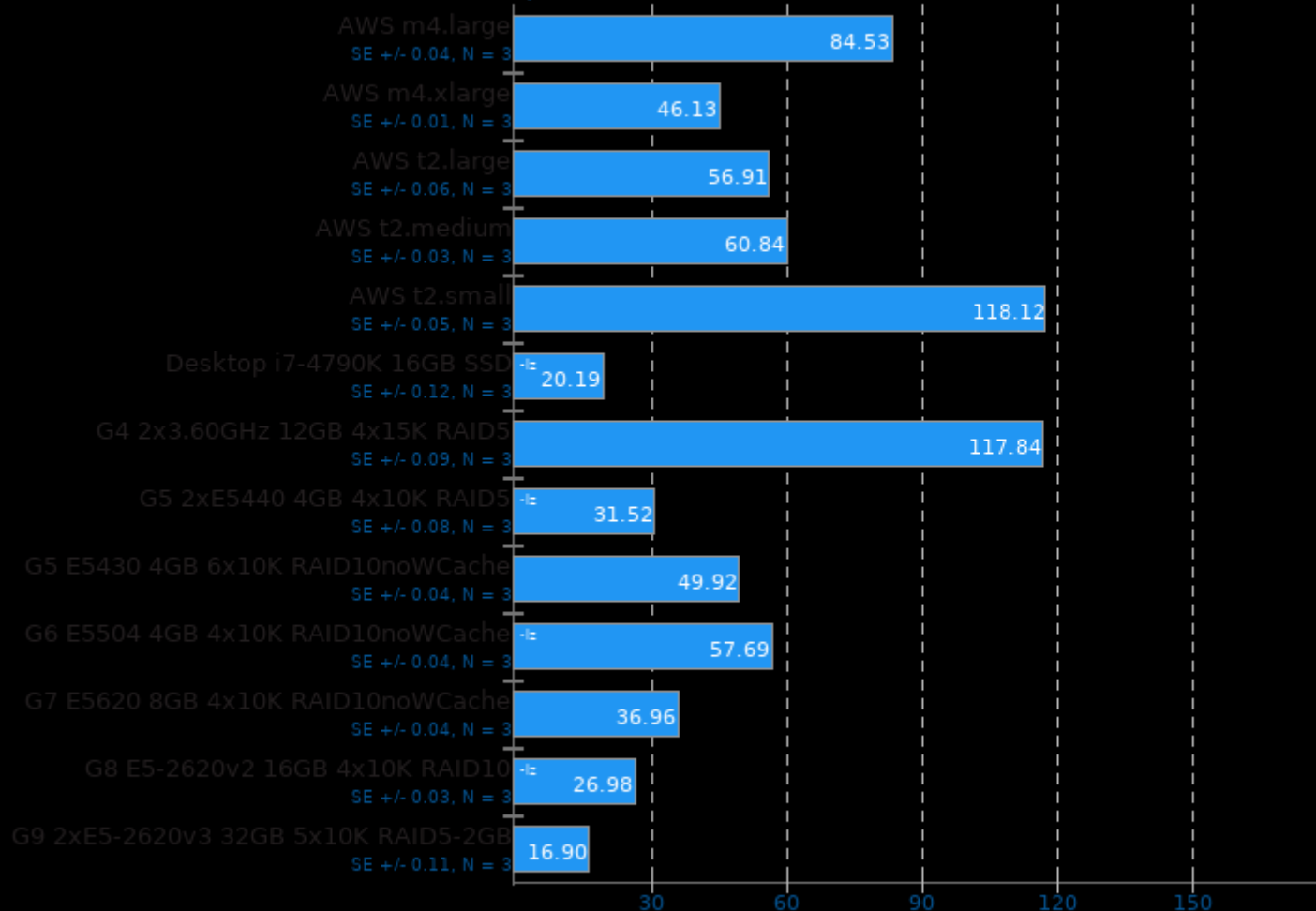
Time To Transfer 10GB Via Loopback



## Timed PHP Compilation 5.2.9

Time To Compile

Seconds, Fewer Is Better

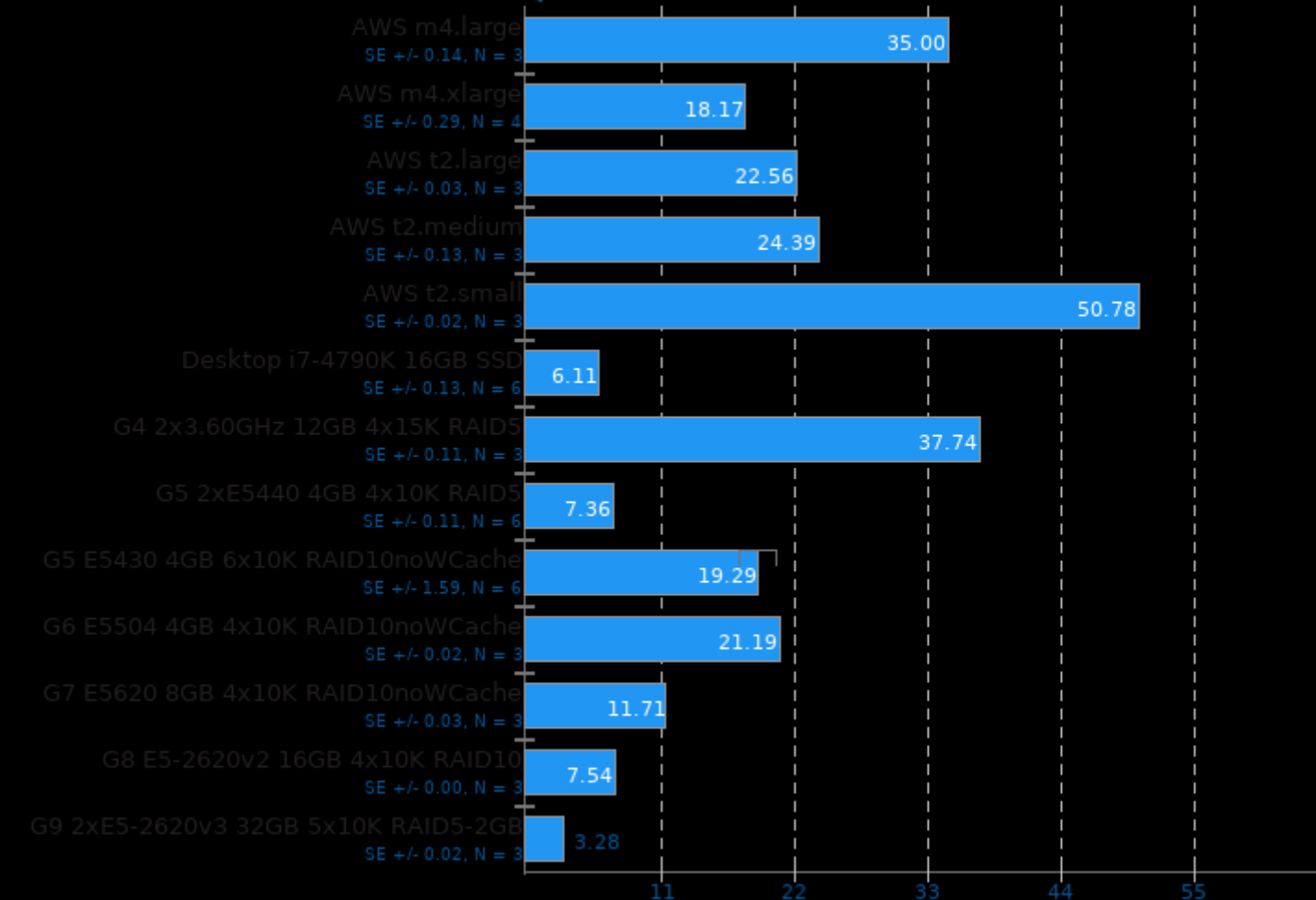


1. (CC) gcc options: -O2 -pedantic -ldl -lm

## Parallel BZIP2 Compression 1.1.6

256MB File Compression

Seconds, Fewer Is Better



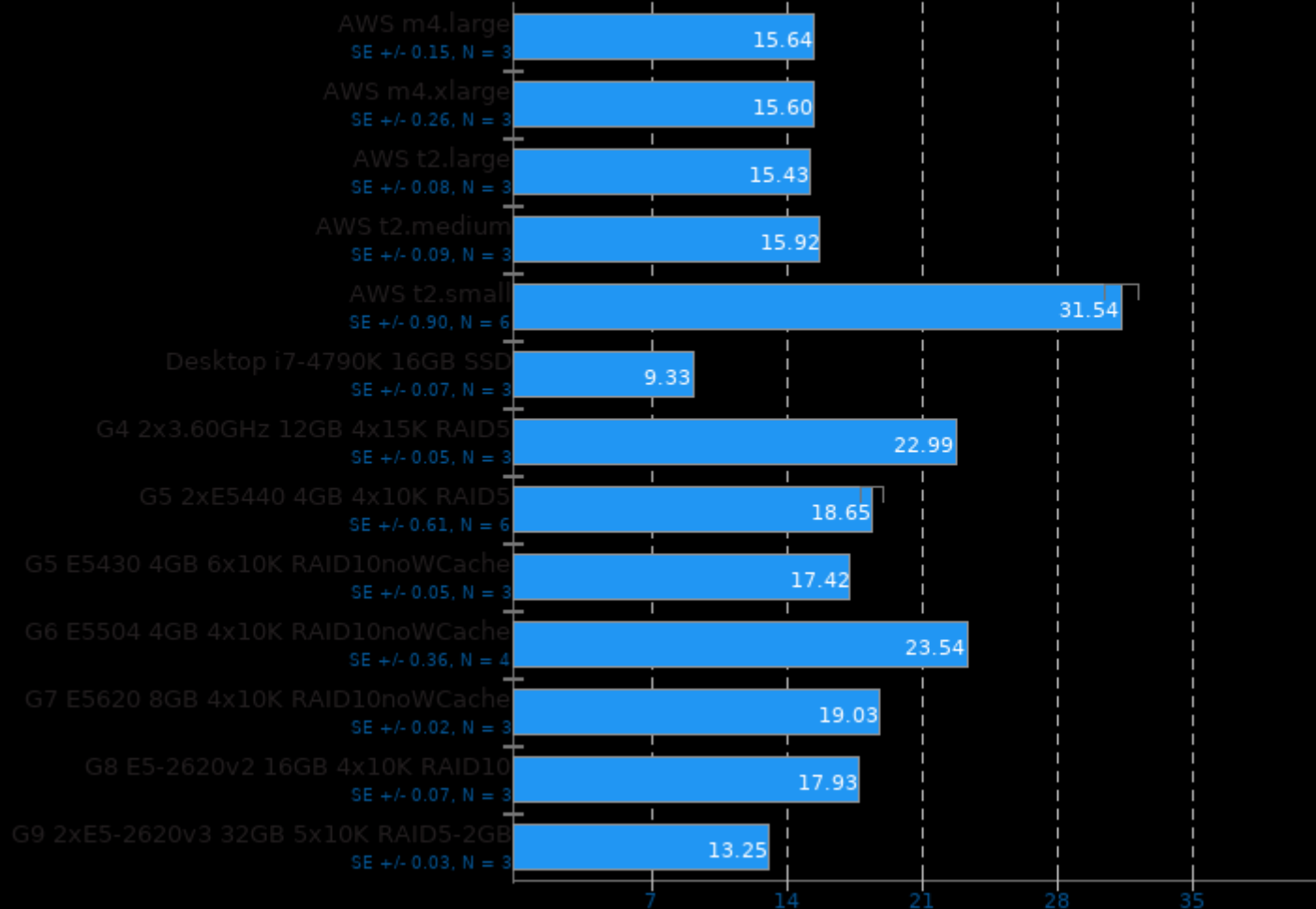
1. (CXX) g++ options: -O2 -pthread -lbz2 -lpthread



## Gzip Compression

2GB File Compression

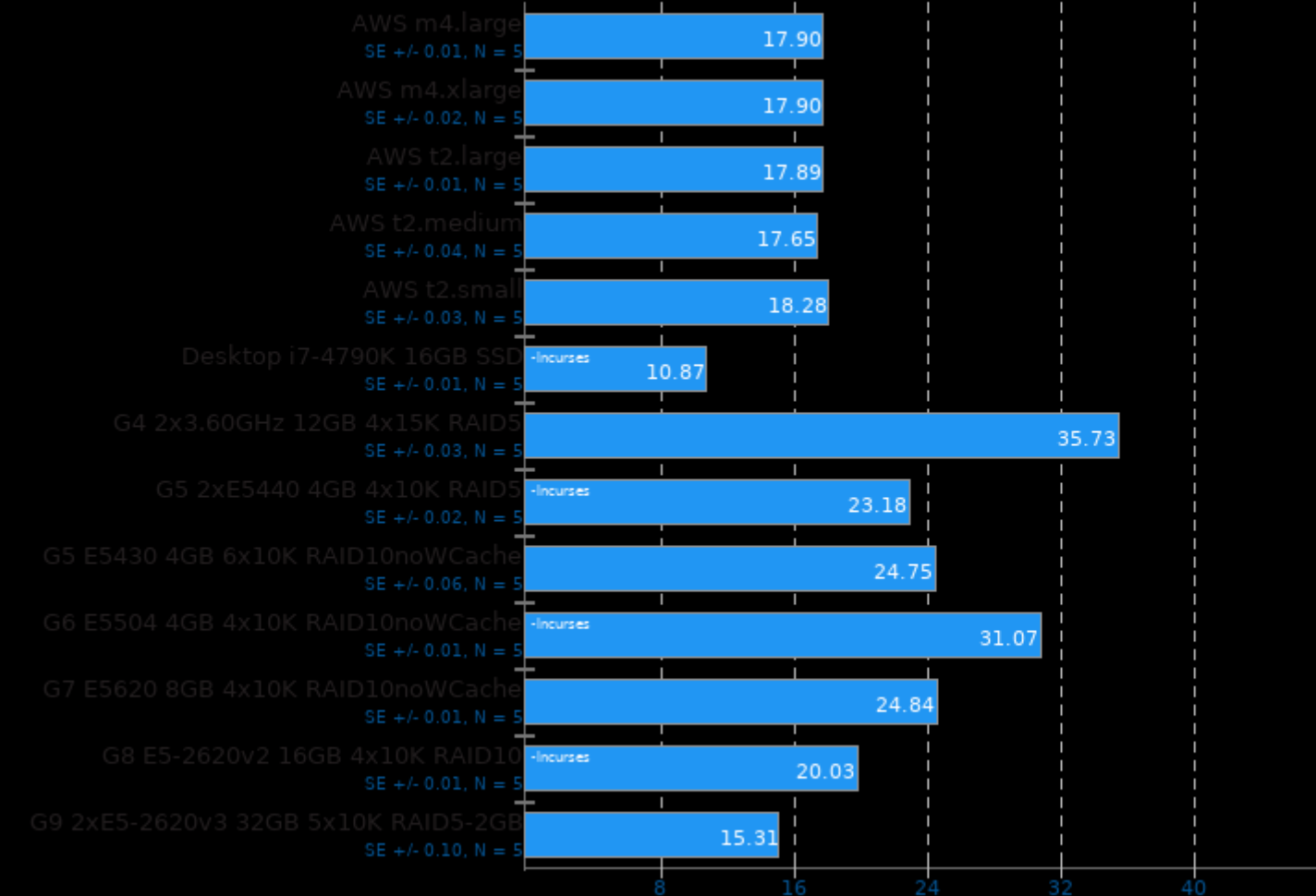
Seconds, Fewer Is Better



## LAME MP3 Encoding 3.99.3

WAV To MP3

Seconds, Fewer Is Better

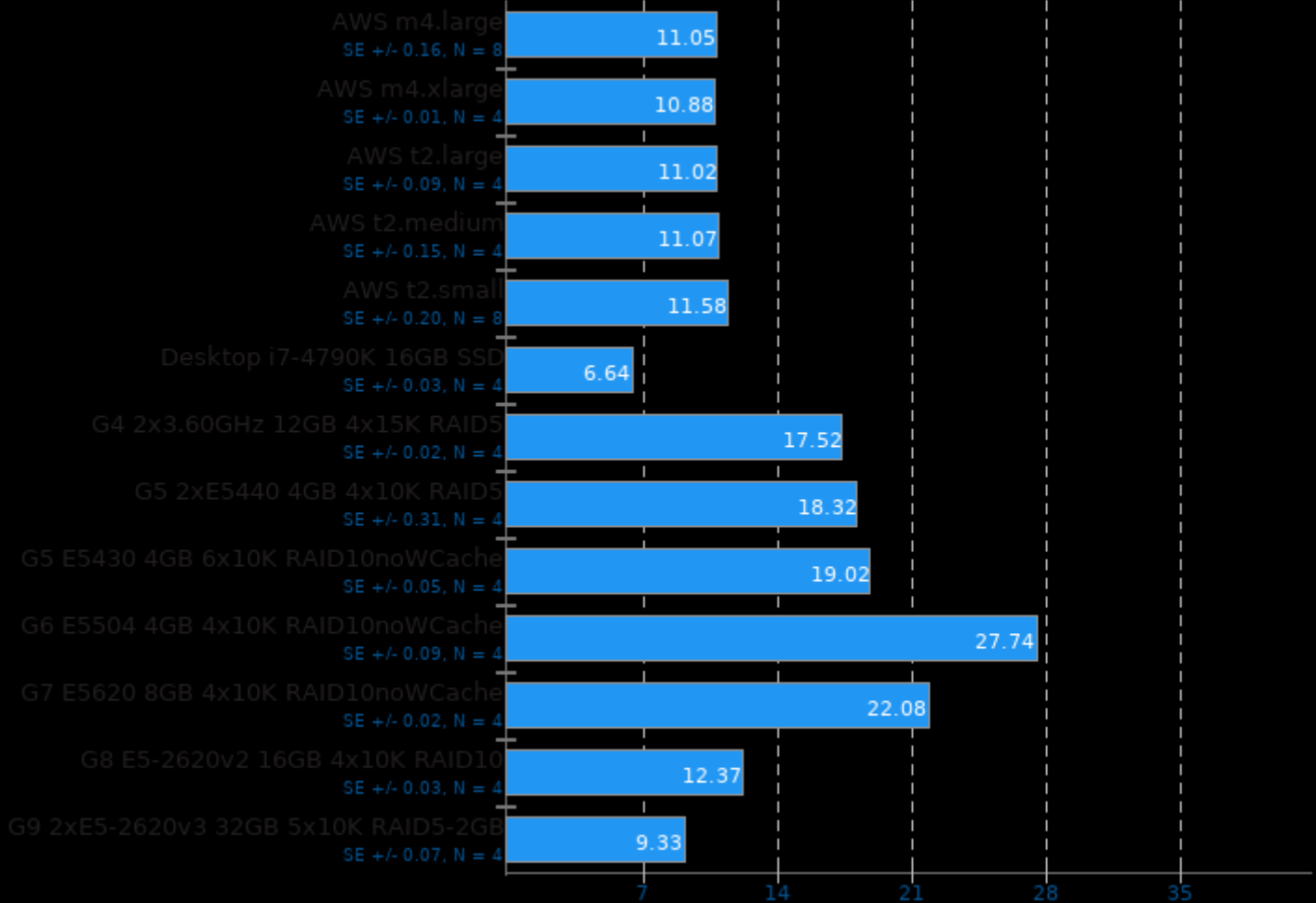


1. (CC) gcc options: -O3 -fomit-frame-pointer -ffast-math -pipe -lm

## GnuPG 1.4.10

1GB File Encryption

Seconds, Fewer Is Better

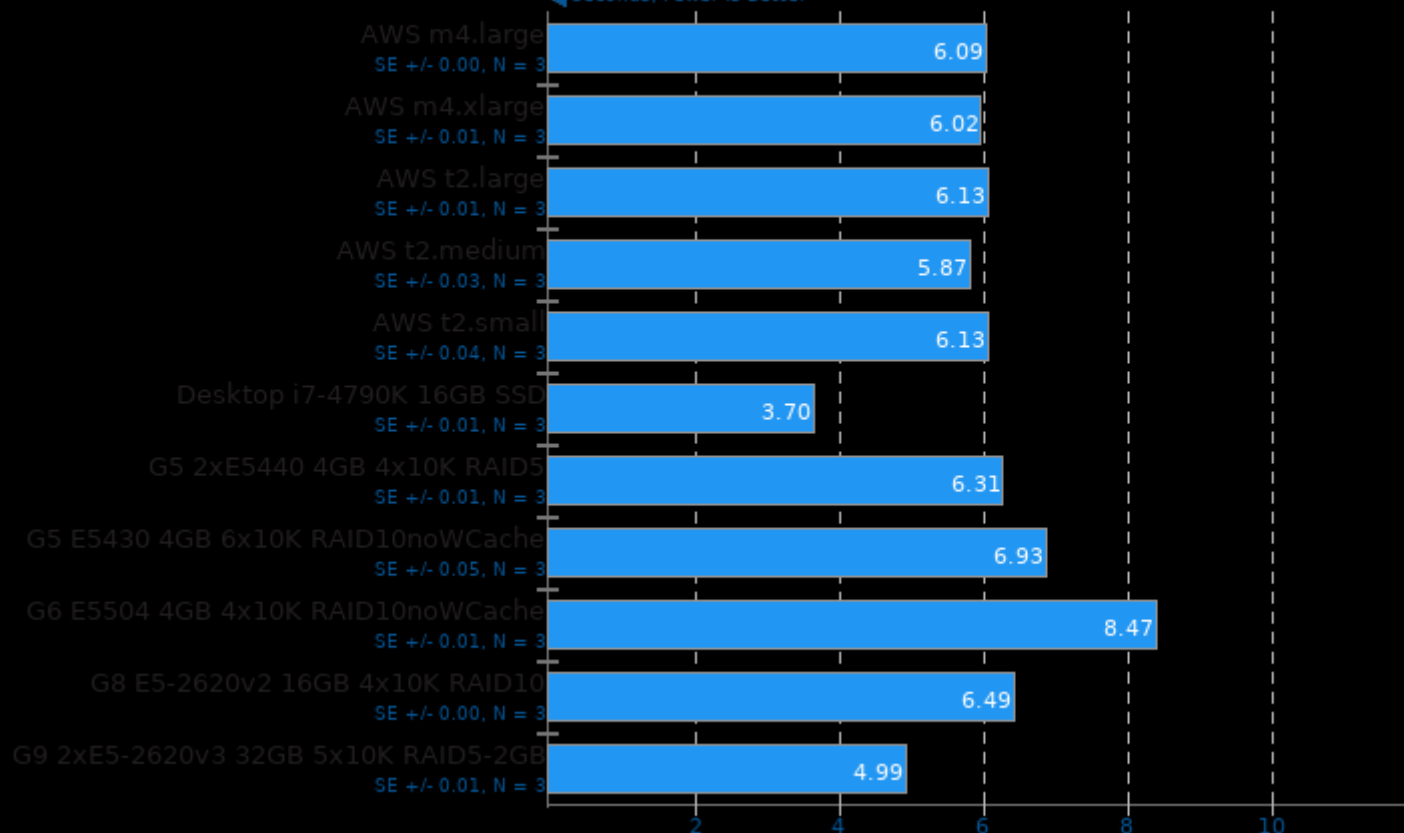


1. (CC) gcc options: -O2 -MT -MD -MP -MF

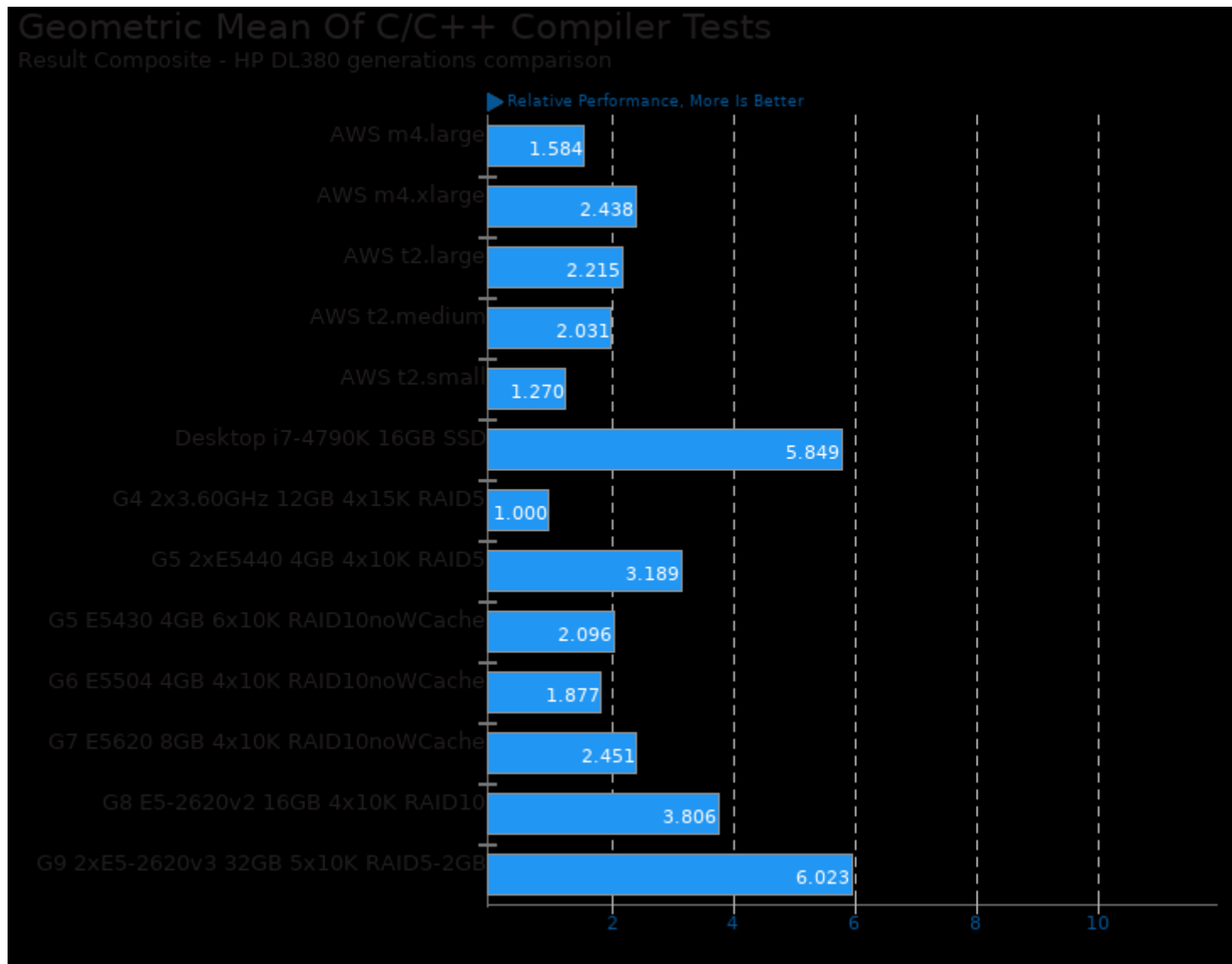
## System XZ Decompression

Phoronix Test Suite v5.2.1

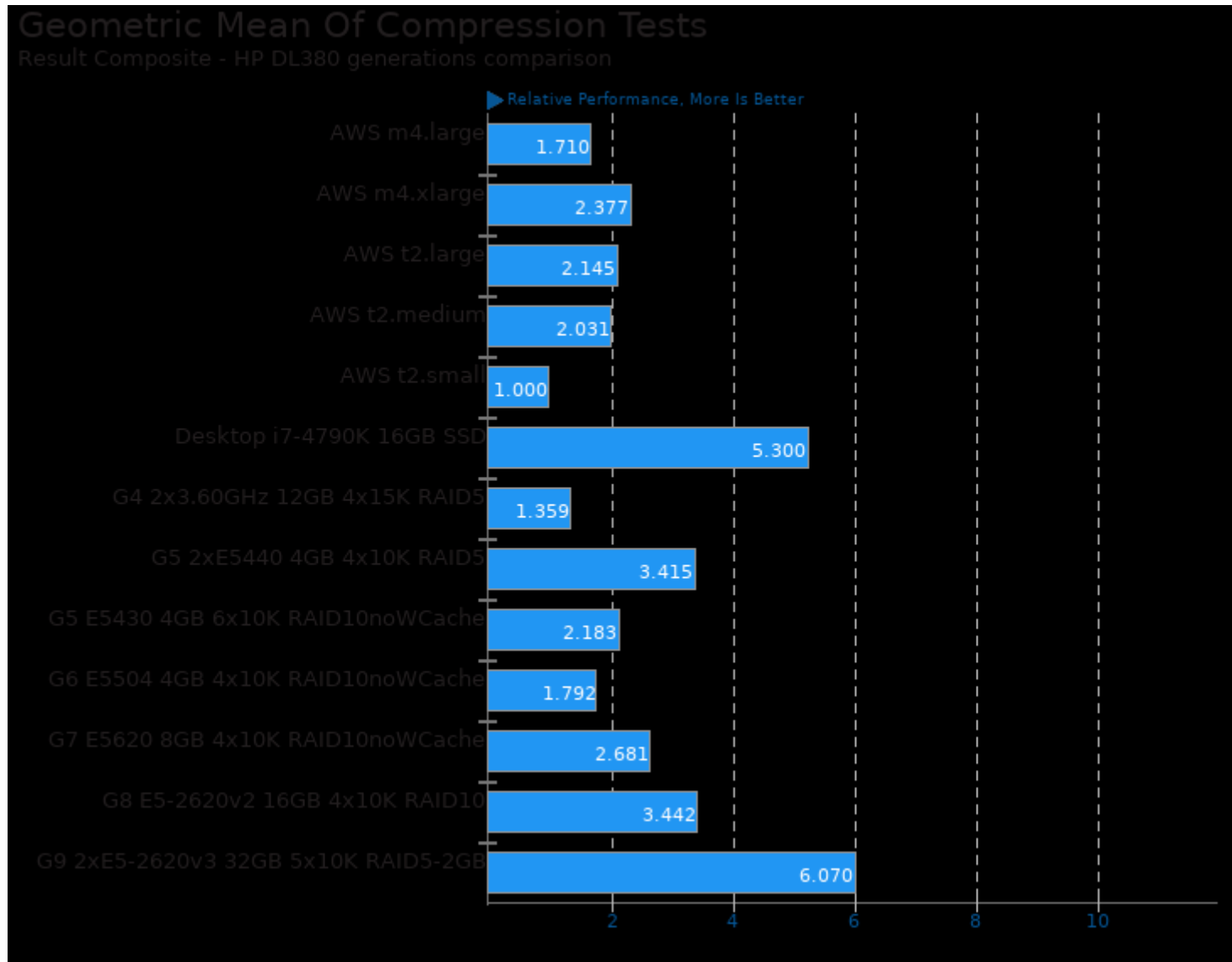
Seconds, Fewer Is Better



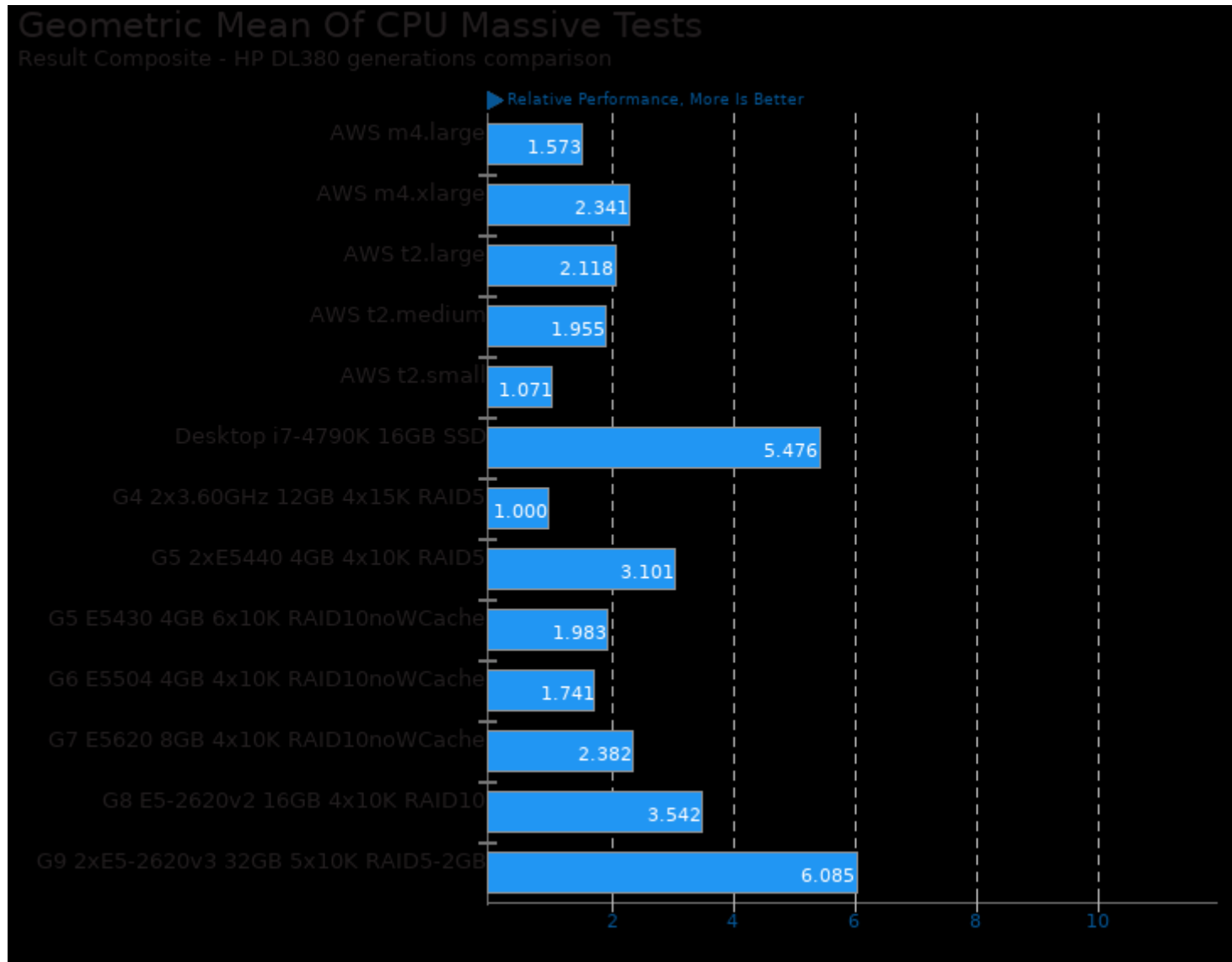
These geometric means are based upon test groupings / test suites for this result file.



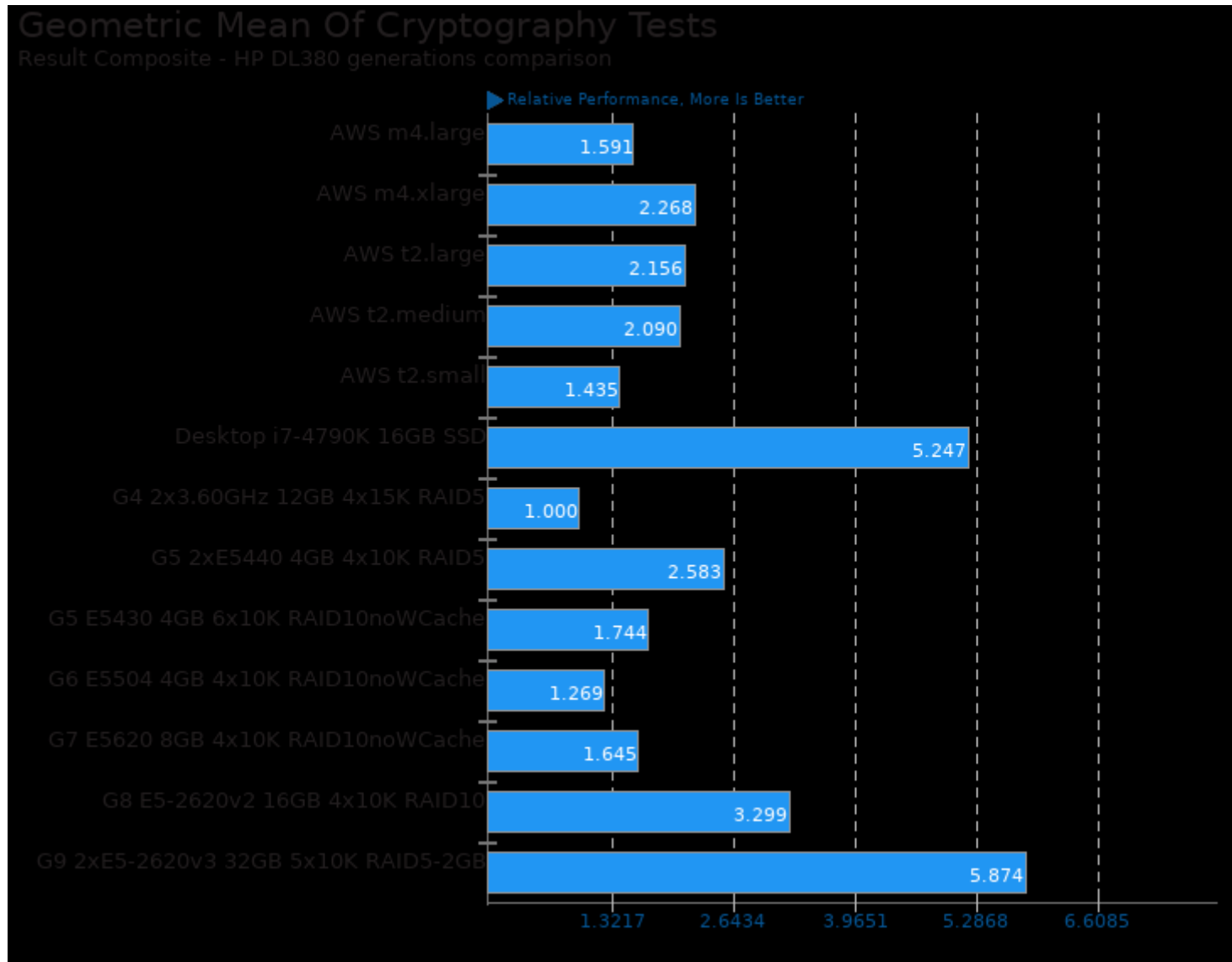
Geometric mean based upon tests: pts/build-php, pts/encode-mp3, pts/pgbench, pts/apache and pts/openssl



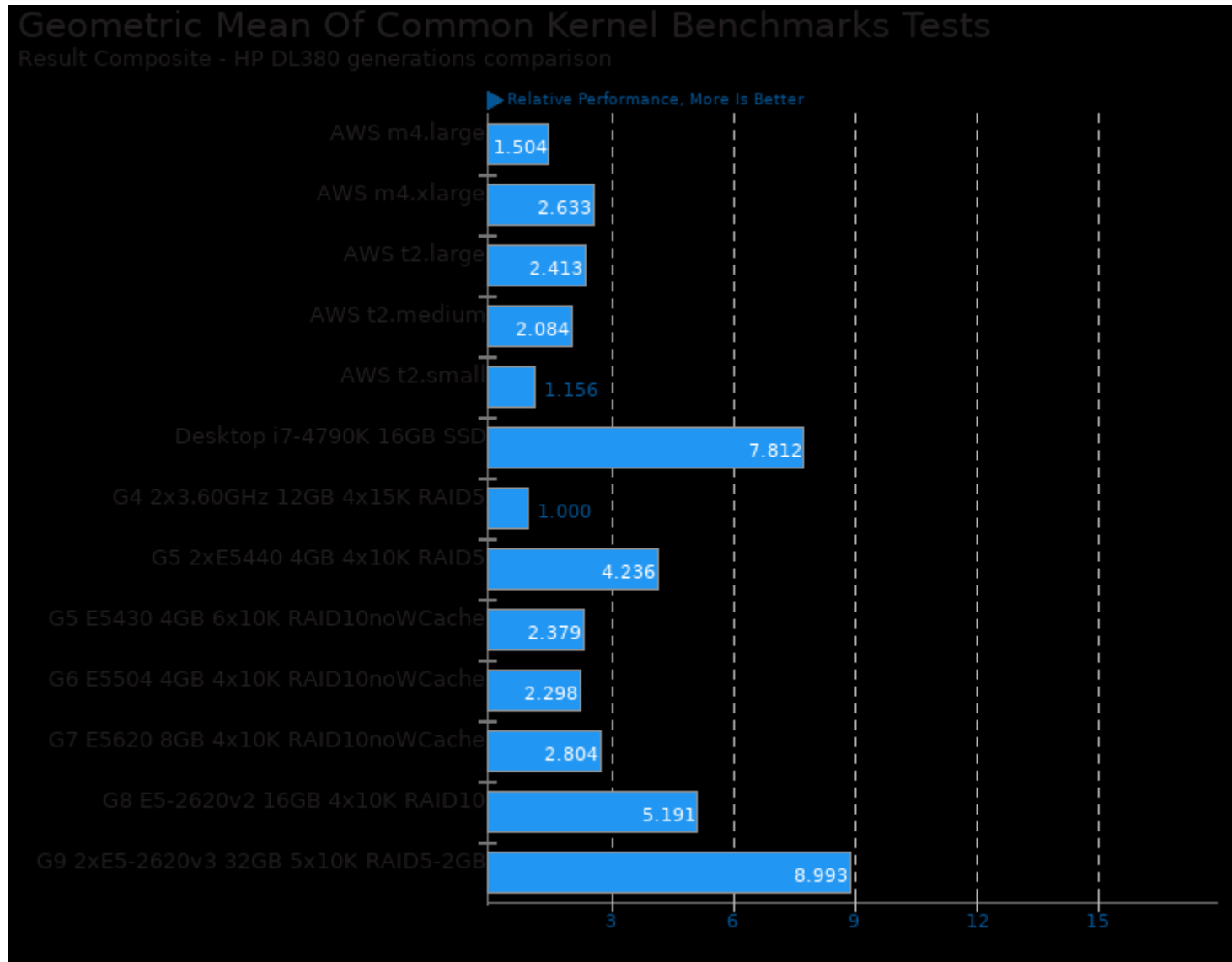
Geometric mean based upon tests: pts/compress-gzip, pts/compress-pbzip2 and pts/system-decompress-xz



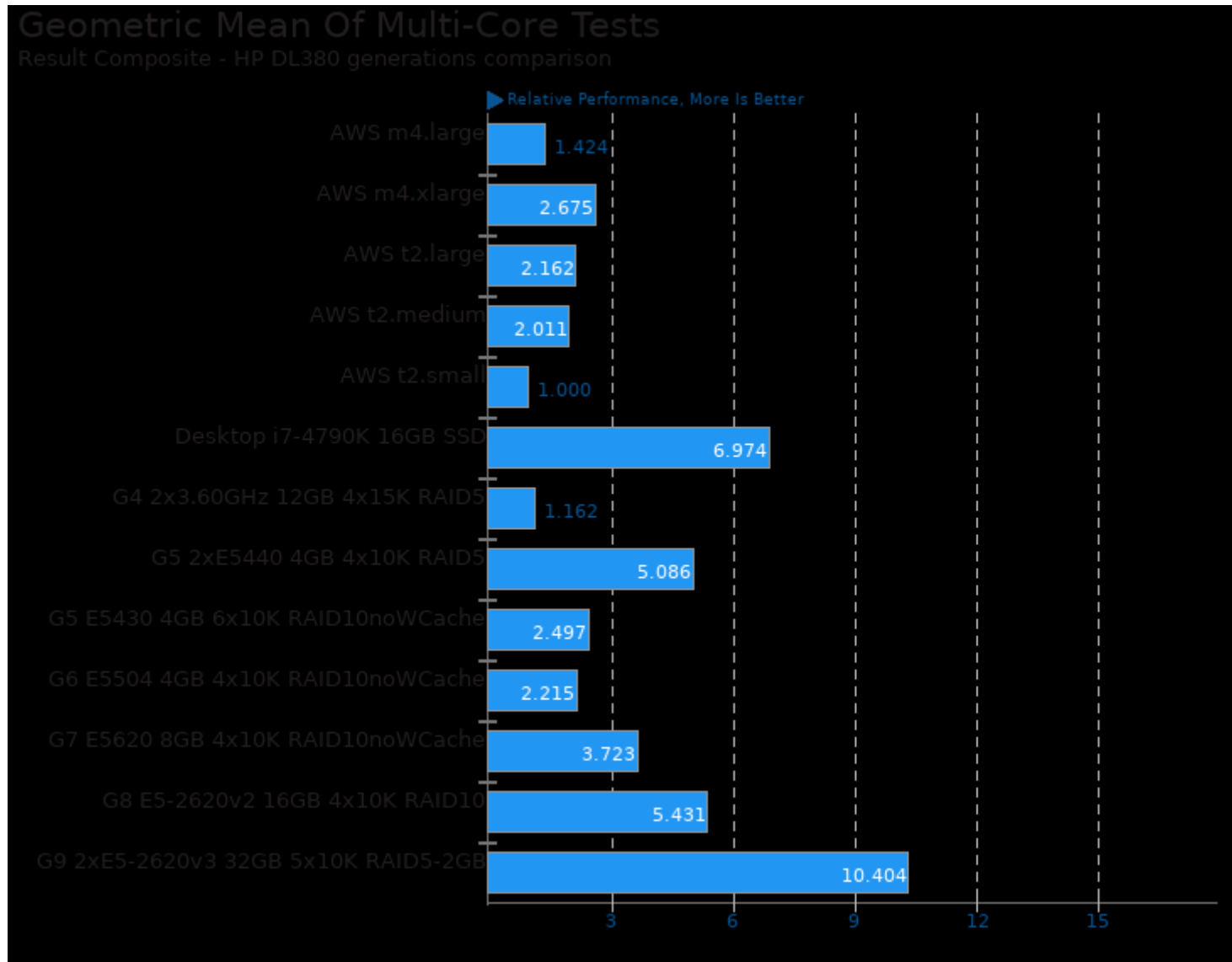
Geometric mean based upon tests: pts/apache, pts/build-php, pts/compress-pbzip2, pts/encode-mp3, pts/openssl, pts/pgbench and pts/phpbench



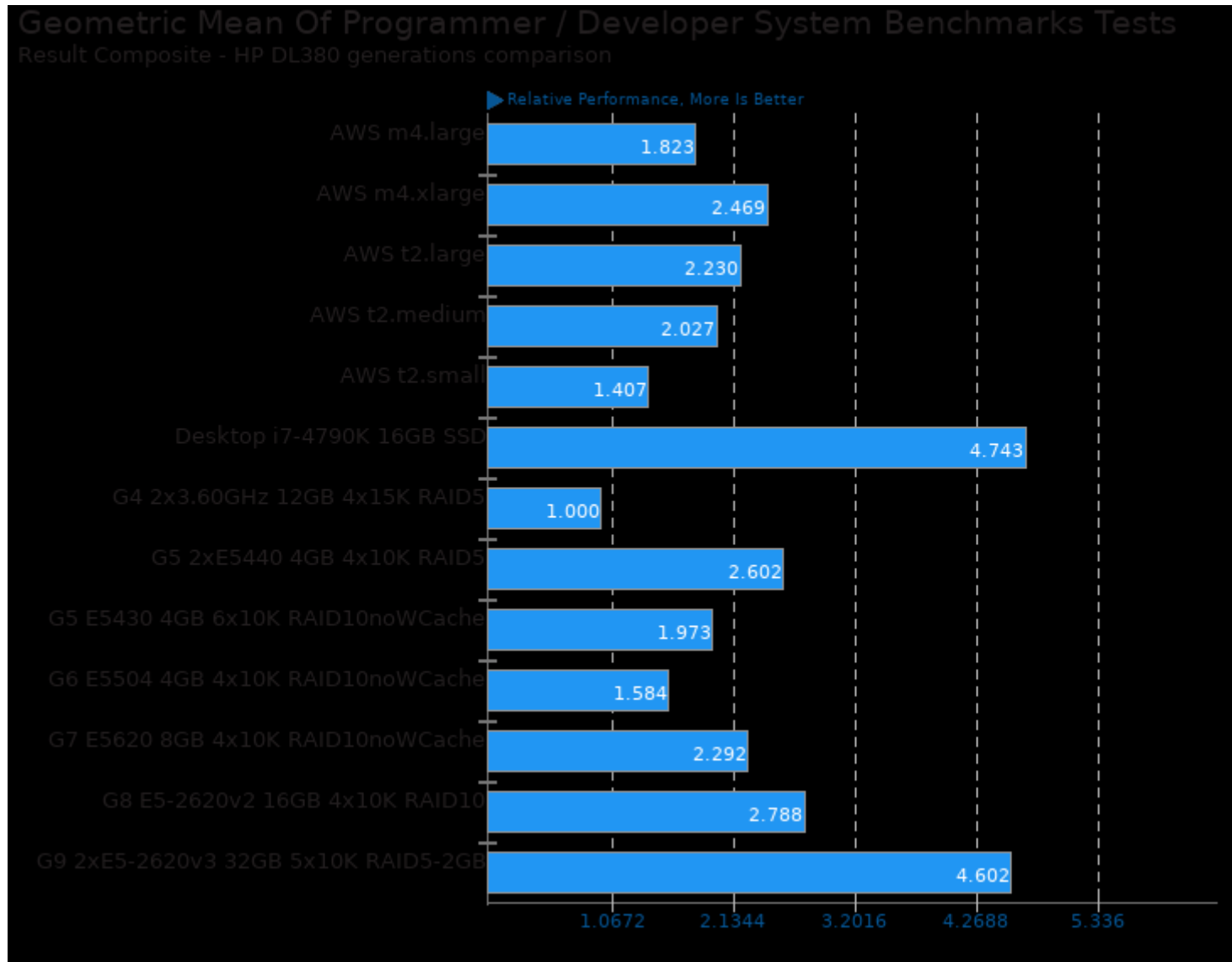


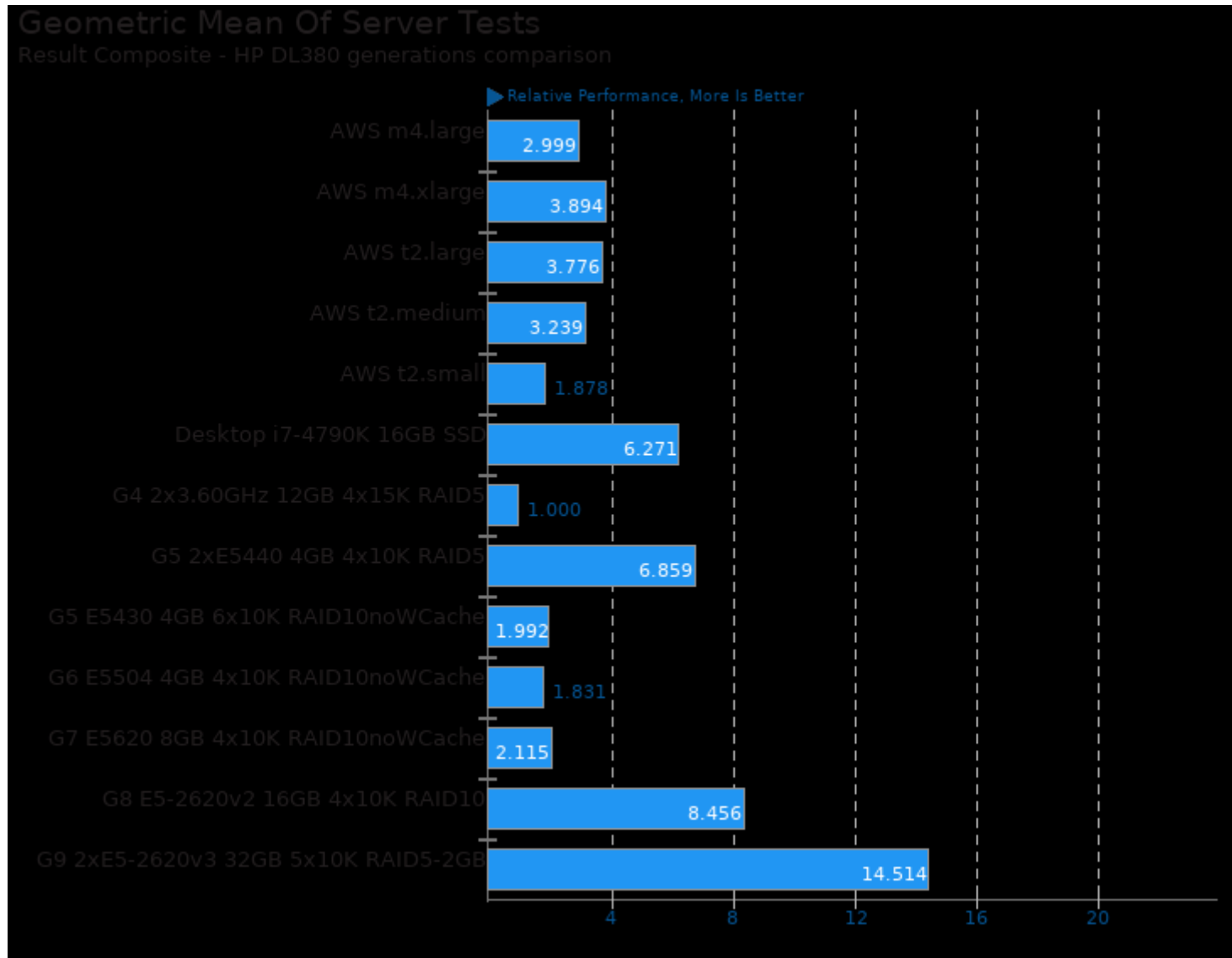


Geometric mean based upon tests: pts/apache, pts/pgbench and pts/openssl

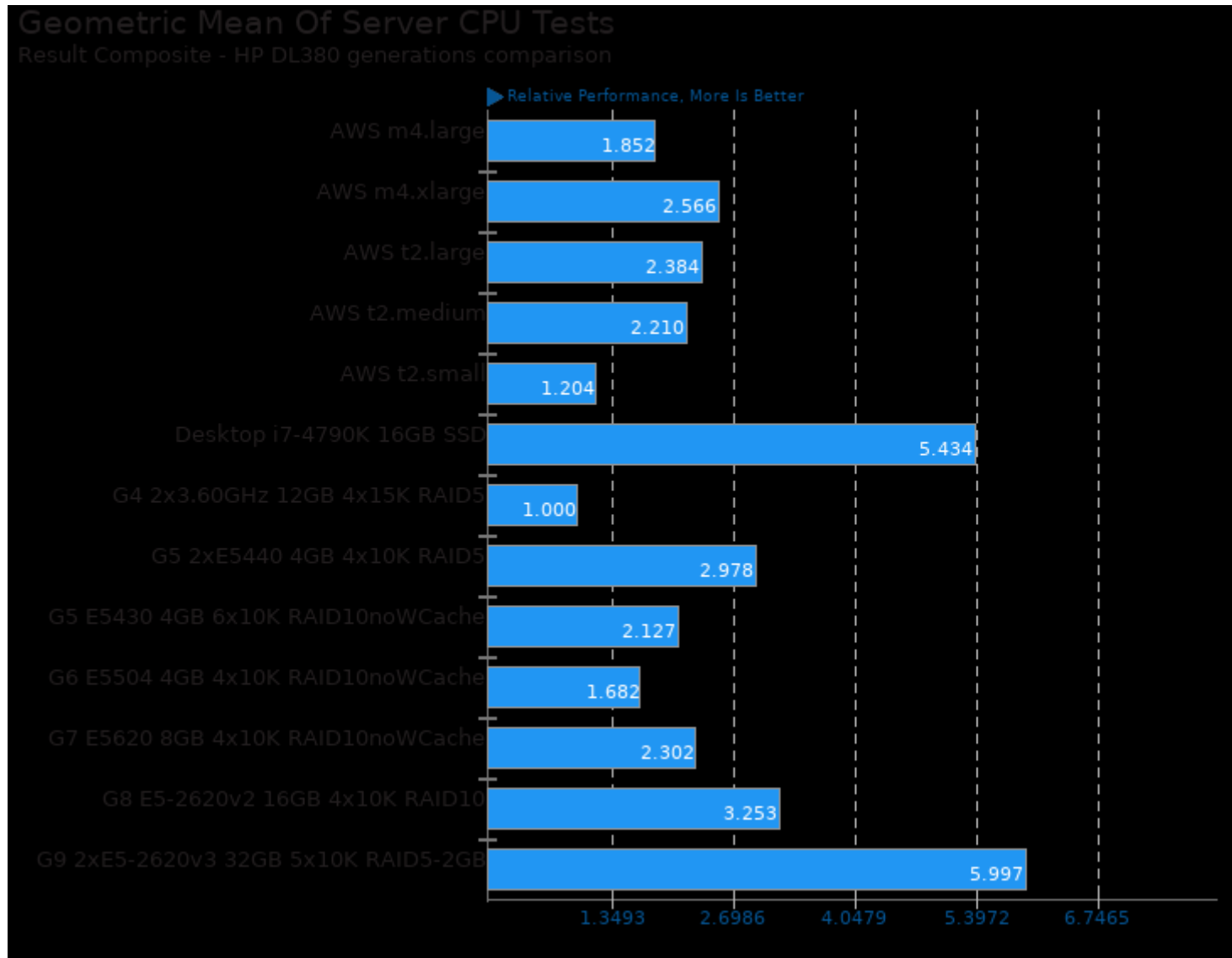


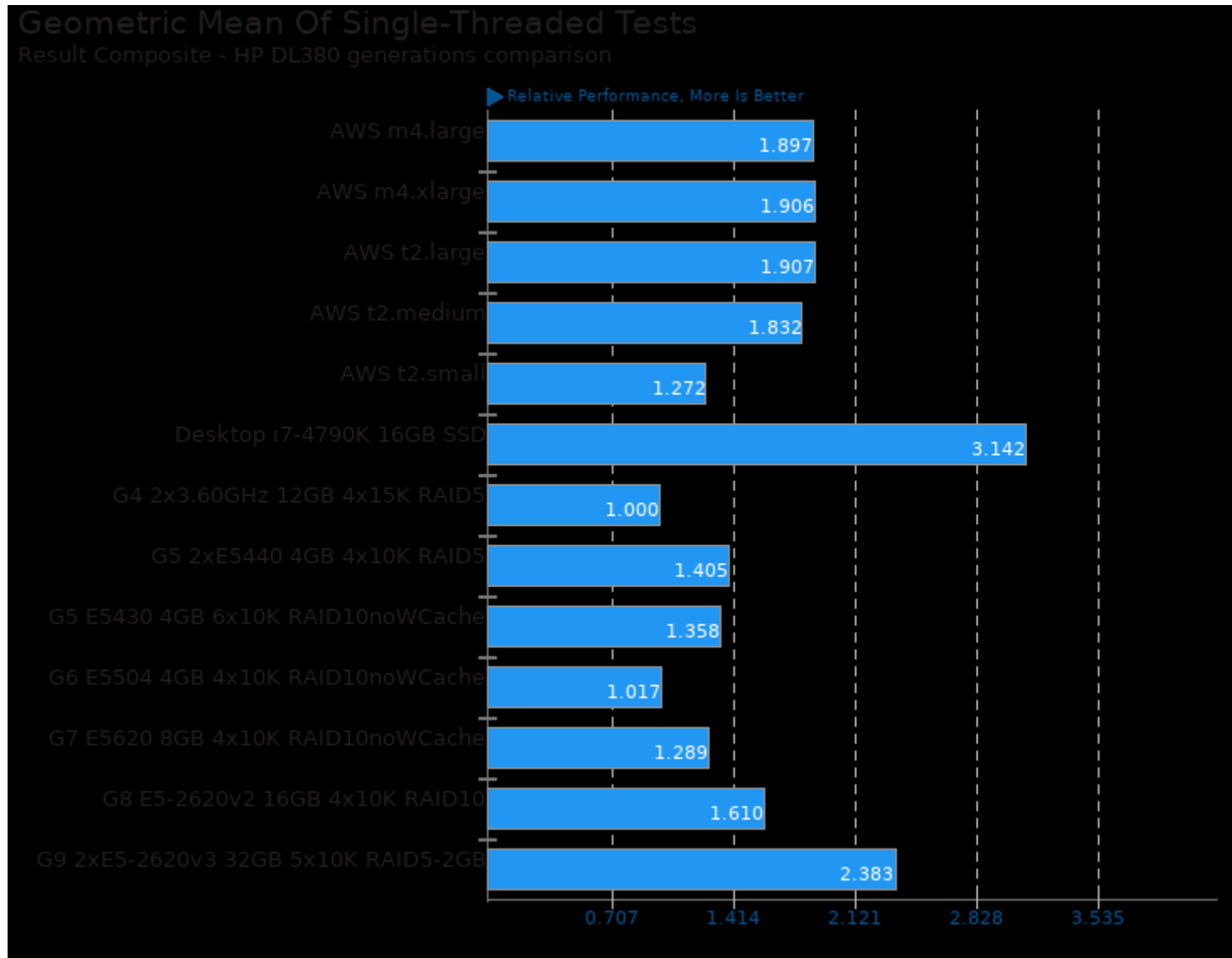
Geometric mean based upon tests: pts/compress-pbzip2, pts/build-php and pts/pgbench





Geometric mean based upon tests: pts/apache, pts/pgbench, pts/phpbench, pts/openssl and pts/sqlite





Geometric mean based upon tests: pts/compress-gzip, pts/encode-mp3, pts/gnupg, pts/pybench and pts/phpbench

*This file was automatically generated via the Phoronix Test Suite benchmarking software on Sunday, 22 December 2024 02:59.*