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Linux Distribution Boot Times

Intel Core i5-7600K testing for a future article.

Test Systems:

Ubuntu 17.10

Processor: Intel Core i5-7600K @ 4.20GHz (4 Cores), Motherboard: Gigabyte Z270M-D3H-CF, Chipset: Intel Device 591f + Z270, Memory: 8192MB, Disk: 250GB Samsung SSD 850, Graphics: Intel HD 630 (1150MHz), Audio: Realtek ALC892, Monitor: Acer B286HK, Network: Intel Connection

OS: Ubuntu 17.10, Kernel: 4.13.0-17-generic (x86_64), Desktop: GNOME Shell 3.26.1, Display Server: Wayland, File-System: ext4, Screen Resolution: 1920x1080

Environment Notes: GJS_DEBUG_TOPICS=JS ERROR;JS LOG GJS_DEBUG_OUTPUT=stderr
Processor Notes: Scaling Governor: intel_pstate powersave

openSUSE Leap 42.3

Processor: Intel Core i5-7600K @ 4.20GHz (4 Cores), Motherboard: Gigabyte Z270M-D3H-CF, Chipset: Intel Device 591f, Memory: 8192MB, Disk: 250GB Samsung SSD 850, Graphics: inteldrmfb (1150MHz), Audio: Realtek ALC892, Monitor: Acer B286HK, Network: Intel Connection

OS: openSUSE 42.3, Kernel: 4.4.76-1-default (x86_64), Desktop: KDE Frameworks 5, Display Server: X Server 1.18.3, Display Driver: modesetting 1.18.3, File-System: xfs, Screen Resolution: 1920x1080

Processor Notes: Scaling Governor: intel_pstate powersave

Ubuntu 16.04.3 LTS

Processor: Intel Core i5-7600K @ 4.20GHz (4 Cores), Motherboard: Gigabyte Z270M-D3H-CF, Chipset: Intel Device 591f, Memory: 8192MB, Disk: 250GB Samsung SSD 850, Graphics: inteldrmfb (1150MHz), Audio: Realtek ALC892, Monitor: Acer B286HK, Network: Intel Connection

OS: Ubuntu 16.04, Kernel: 4.10.0-40-generic (x86_64), Desktop: Unity 7.4.0, Display Driver: modesetting 1.19.3, Compiler: GCC 5.4.0 20160609, File-System: ext4, Screen Resolution: 1920x1080

Processor Notes: Scaling Governor: intel_pstate powersave

Fedora Workstation 27

Processor: Intel Core i5-7600K @ 4.20GHz (4 Cores), Motherboard: Gigabyte Z270M-D3H-CF, Chipset: Intel Intel Kaby Lake + Z270, Memory: 8192MB, Disk: 250GB Samsung SSD 850, Graphics: Intel HD 630 3072MB (1150MHz), Audio: Realtek ALC892, Monitor: Acer B286HK, Network: Intel Connection

OS: Fedora 27, Kernel: 4.13.9-300.fc27.x86_64 (x86_64), Desktop: GNOME Shell 3.26.1, Display Server: Wayland, OpenGL: 4.5 Mesa 17.2.2, File-System: ext4, Screen Resolution: 1920x1080

Environment Notes: GJS_DEBUG_OUTPUT=stderr GJS_DEBUG_TOPICS=JS ERROR;JS LOG
Processor Notes: Scaling Governor: intel_pstate powersave
System Notes: SELinux: Enabled.

CentOS Linux 7

Processor: Intel Core i5-7600K @ 4.20GHz (4 Cores), Motherboard: Gigabyte Z270M-D3H-CF, Chipset: Intel Device 591f + Z270, Memory: 8192MB, Disk: 250GB Samsung SSD 850, Graphics: Intel Kabylake GT2 (1150MHz), Audio: Realtek ALC892, Monitor: Acer B286HK, Network: Intel Connection

OS: CentOS Linux 7, Kernel: 3.10.0-693.el7.x86_64 (x86_64), Desktop: GNOME Shell 3.22.3, Display Server: X Server 1.19.3, Display Driver: modesetting 1.19.3, OpenGL: 4.5 Mesa 17.0.1, File-System: xfs, Screen Resolution: 1920x1080

Environment Notes: GJS_DEBUG_OUTPUT=stderr GJS_DEBUG_TOPICS=JS ERROR;JS LOG
Processor Notes: Scaling Governor: intel_pstate powersave
System Notes: SELinux: Enabled.

openSUSE Tumbleweed

Processor: Intel Core i5-7600K @ 4.20GHz (4 Cores), Motherboard: Gigabyte Z270M-D3H-CF, Chipset: Intel Intel Kaby Lake + Z270, Memory: 8192MB, Disk: 250GB Samsung SSD 850, Graphics: Intel HD 630 (1150MHz), Audio: Realtek ALC892, Monitor: Acer B286HK, Network: Intel Connection

OS: openSUSE Tumbleweed 20171122, Kernel: 4.14.0-1-default (x86_64), Desktop: KDE Frameworks 5, Display

Server: X Server 1.19.5, Display Driver: modesetting 1.19.5, File-System: xfs, Screen Resolution: 1920x1080

Processor Notes: Scaling Governor: intel_pstate powersave

Debian 9.2.1

Processor: Intel Core i5-7600K @ 4.20GHz (4 Cores), Motherboard: Gigabyte Z270M-D3H-CF, Chipset: Intel Device 591f, Memory: 8192MB, Disk: 250GB Samsung SSD 850, Graphics: inteldrmfb (1150MHz), Audio: Realtek ALC892, Monitor: Acer B286HK, Network: Intel Connection

OS: Debian 9.2, Kernel: 4.9.0-4-amd64 (x86_64), Desktop: GNOME Shell 3.22.3, Display Driver: modesetting 1.19.2, File-System: ext4, Screen Resolution: 1920x1080

Environment Notes: GJS_DEBUG_TOPICS=JS ERROR;JS LOG GJS_DEBUG_OUTPUT=stderr
Processor Notes: Scaling Governor: intel_pstate powersave

Solus 3

Processor: Intel Core i5-7600K @ 4.20GHz (4 Cores), Motherboard: Gigabyte Z270M-D3H-CF, Chipset: Intel Intel Kaby Lake + Z270, Memory: 8192MB, Disk: 250GB Samsung SSD 850, Graphics: Intel HD 630 (1150MHz), Audio: Realtek ALC892, Monitor: Acer B286HK, Network: Intel Connection

OS: Solus 3, Kernel: 4.13.15-34.current (x86_64), Desktop: Budgie, Display Driver: modesetting 1.18.4, OpenGL: 4.5 Mesa 17.2.5, File-System: ext4, Screen Resolution: 1920x1080

Processor Notes: Scaling Governor: intel_pstate powersave

Manjaro 17.0.6

Processor: Intel Core i5-7600K @ 4.20GHz (4 Cores), Motherboard: Gigabyte Z270M-D3H-CF, Chipset: Intel Intel Kaby Lake + Z270, Memory: 8192MB, Disk: 250GB Samsung SSD 850 + 16GB Voyager 3.0, Graphics: Intel HD 630 3072MB (1150MHz), Audio: Realtek ALC892, Monitor: Acer B286HK, Network: Intel Connection

OS: ManjaroLinux 17.0.6, Kernel: 4.9.58-1-MANJARO (x86_64), Desktop: Xfce 4.12, Display Driver: intel 2.99.917, OpenGL: 4.5 Mesa 17.2.2, Compiler: GCC 7.2.0, File-System: ext4, Screen Resolution: 1920x1080

Processor Notes: Scaling Governor: intel_pstate powersave

Antergos 17.11

Processor: Intel Core i5-7600K @ 4.20GHz (4 Cores), Motherboard: Gigabyte Z270M-D3H-CF, Chipset: Intel Intel Kaby Lake + Z270, Memory: 8192MB, Disk: 250GB Samsung SSD 850, Graphics: Intel HD 630 (1150MHz), Audio: Realtek ALC892, Monitor: Acer B286HK, Network: Intel Connection

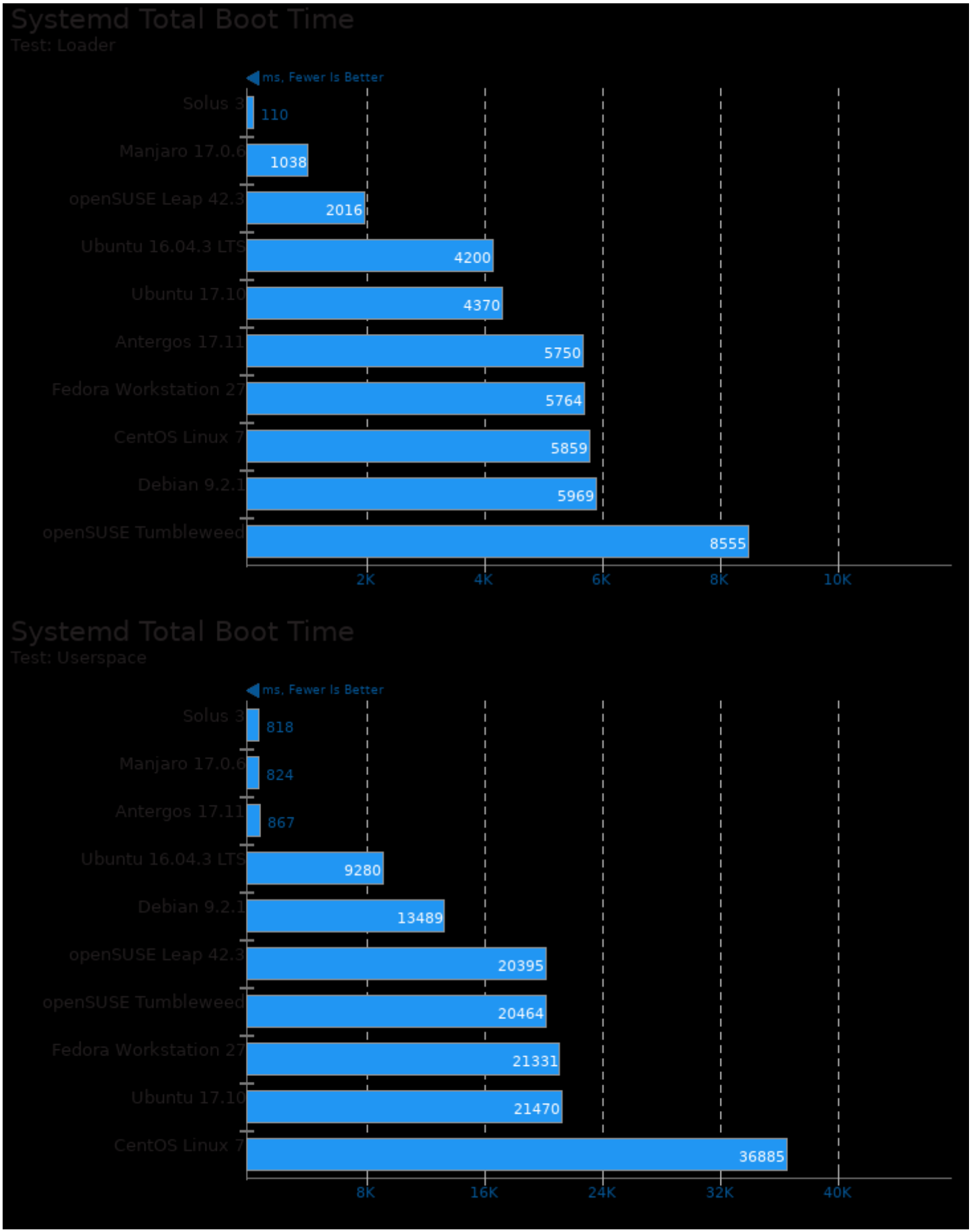
OS: Antergos Linux 17.11-ISO-Rolling, Kernel: 4.13.12-1-ARCH (x86_64), Desktop: GNOME Shell 3.26.2, Display Driver: modesetting 1.19.5, Compiler: GCC 7.2.0, File-System: ext4, Screen Resolution: 1920x1080

Environment Notes: GJS_DEBUG_OUTPUT=stderr GJS_DEBUG_TOPICS=JS ERROR;JS LOG
Processor Notes: Scaling Governor: intel_pstate powersave

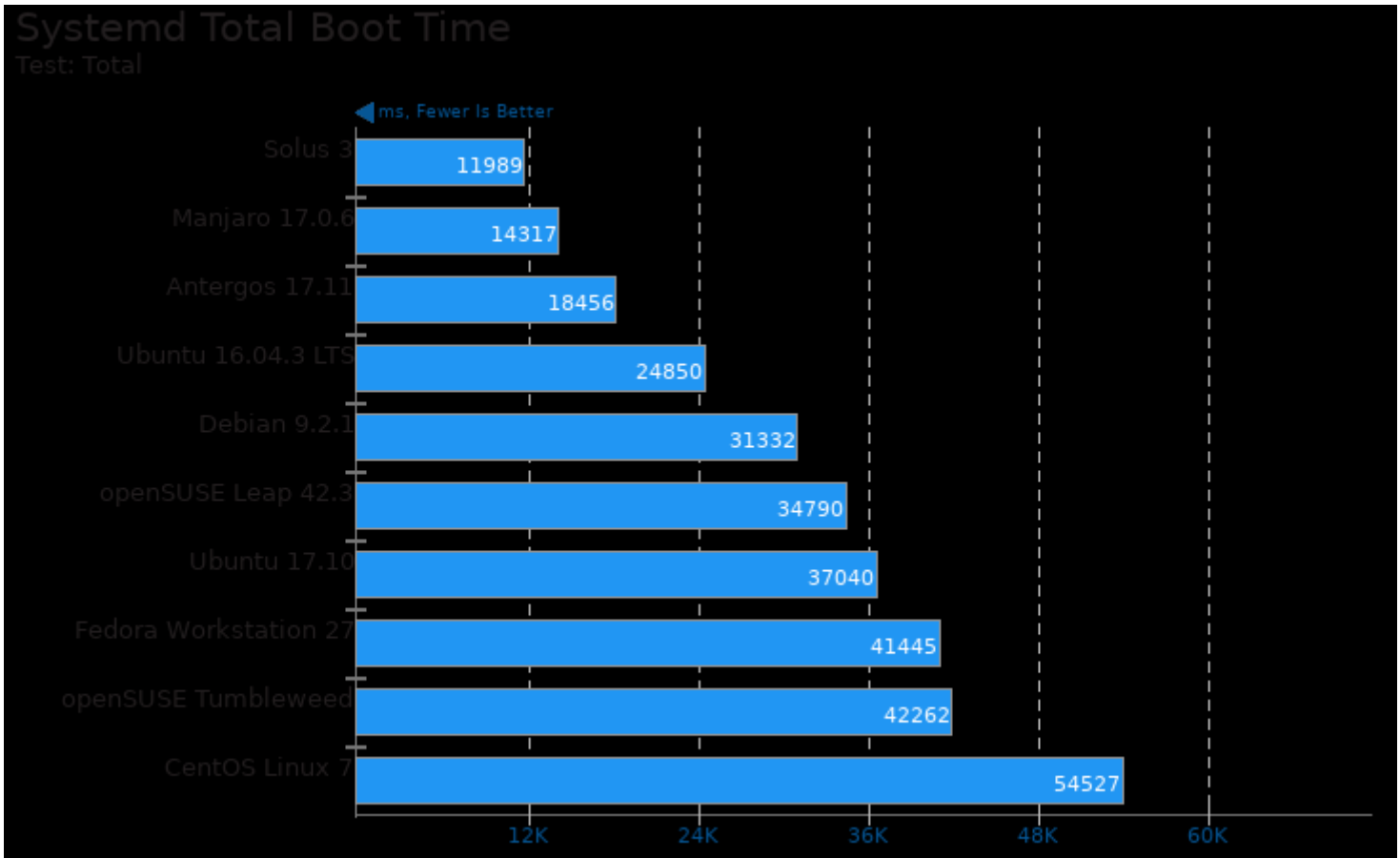
Linux Distribution Boot Times

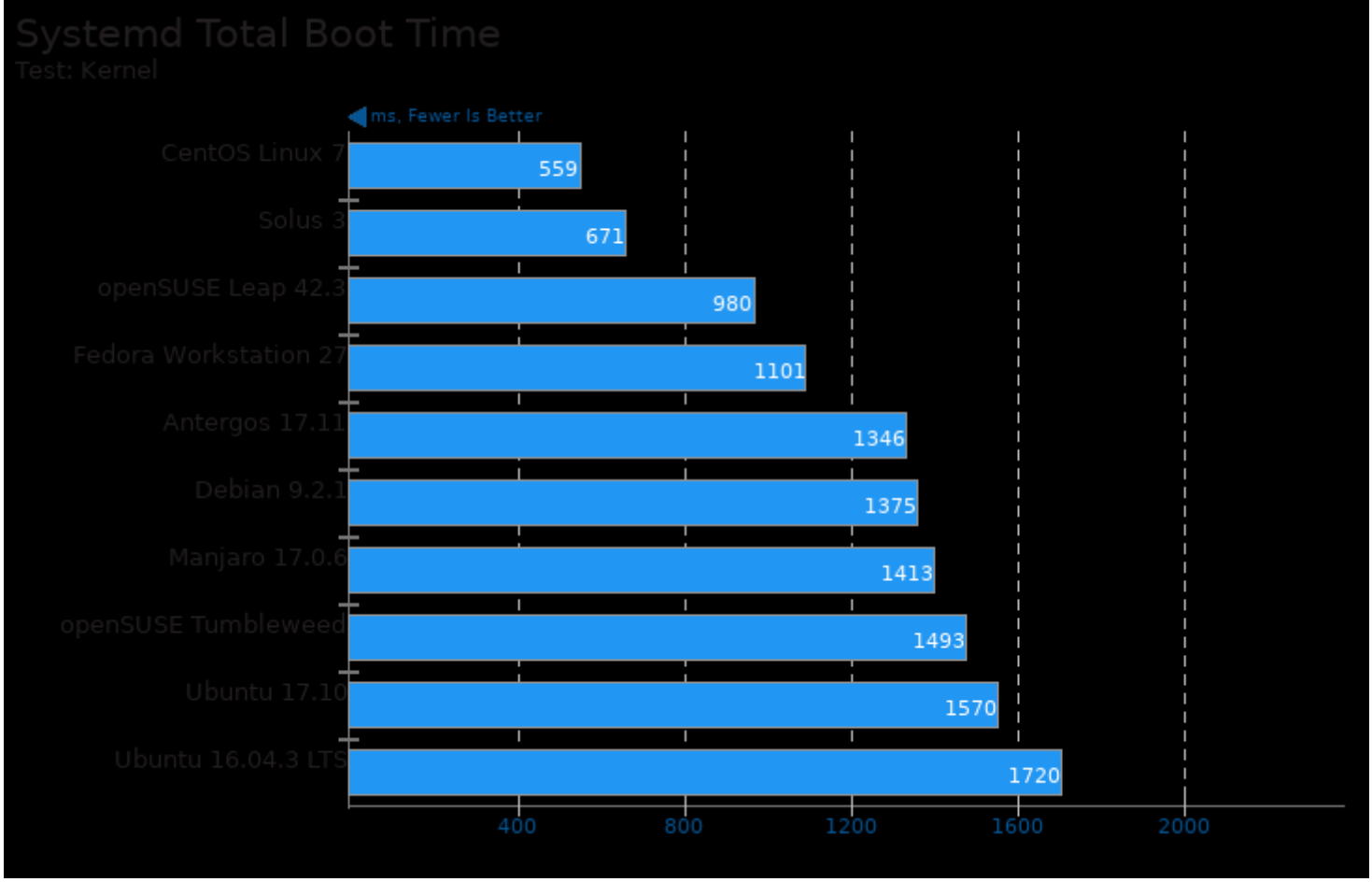
	Ubuntu 17.10	openSUSE Leap 42.3	Ubuntu 16.04.3 LTS	Fedora Workstation 27	CentOS Linux 7	openSUSE Tumbleweed	Debian 9.2.1	Solus 3	Manjaro 17.0.6	Antergos 17.11
Systemd Total Boot Time - Loader (ms)	4370	2016	4200	5764	5859	**8555**	5969	**110**	1038	5750
Normalized	2.52%	5.46%	2.62%	1.91%	1.88%	1.29%	1.84%	100%	10.6%	1.91%
Systemd Total Boot Time - Userspace (ms)	21470	20395	9280	21331	**36885**	20464	13489	**818**	824	867
Normalized	3.81%	4.01%	8.81%	3.83%	2.22%	4%	6.06%	100%	99.27%	94.35%
Systemd Total Boot Time - Total (ms)	37040	34790	24850	41445	**54527**	42262	31332	**11989**	14317	18456
Normalized	32.37%	34.46%	48.25%	28.93%	21.99%	28.37%	38.26%	100%	83.74%	64.96%
Systemd Total Boot Time - Kernel (ms)	1570	980	**1720**	1101	**559**	1493	1375	671	1413	1346
Normalized	35.61%	57.04%	32.5%	50.77%	100%	37.44%	40.65%	83.31%	39.56%	41.53%
Systemd Total Boot Time - Firmware (ms)	9610	9638	9630	**11645**	9618	10541	10499	**9522**	11040	10491
Normalized	99.08%	98.8%	98.88%	81.77%	99%	90.33%	90.69%	100%	86.25%	90.76%

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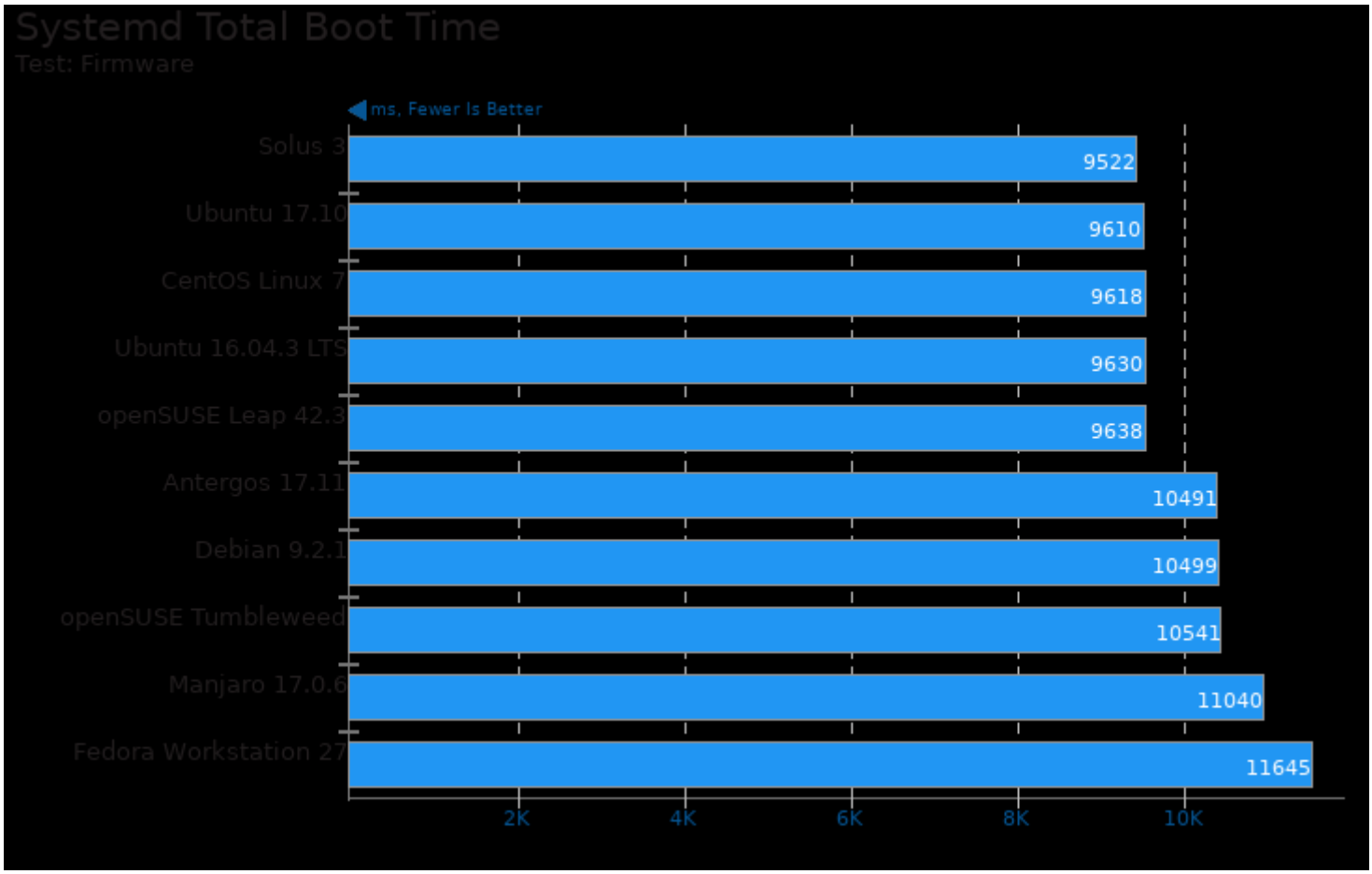


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