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browser benchmark

Intel Core i7-3615QM testing with a Apple MacBook Pro and Intel HD 4000 + NVIDIA GeForce GT 650M 2GB on macOS 10.15.7 via the Phoronix Test Suite.

Test Systems:

Firefox 83

Processor: Intel Core i7-3615QM @ 3.30GHz (4 Cores / 8 Threads), Motherboard: Apple Mac-C3EC7CD22292981F (262.0.0.0.0 BIOS), Chipset: Intel 3rd Gen Core DRAM, Memory: 8GB, Disk: 251GB APPLE SSD SM256E, Graphics: Intel NVIDIA NVE7 1GB (1200MHz), Audio: Cirrus Logic CS4206, Monitor: Color LCD, Network: Broadcom NetXtreme BCM57786 PCIe + Broadcom BCM4331 802.11a/b/g/n

OS: Gentoo/Linux, Kernel: 5.10.1-gentoo-x86_64-gcc (x86_64), Desktop: Xfce 4.14, Display Server: X Server 1.20.10, Display Driver: nouveau 1.0.16, Compiler: GCC 10.2.0 + Clang 11.0.0Target: + LLVM 11.0.0, File-System: f2fs, Screen Resolution: 2880x1800

Kernel Notes: i915.fastboot=1
Processor Notes: Scaling Governor: intel_cpufreq userspace - CPU Microcode: 0x21

Python Notes: Python 3.9.0
Security Notes: itlb_multihit: KVM: Mitigation of VMX disabled + l1tf: Mitigation of PTE Inversion; VMX: vulnerable + mds: Vulnerable; SMT vulnerable + meltdown: Vulnerable + spec_store_bypass: Vulnerable + spectre_v1: Vulnerable: __user pointer sanitization and usercopy barriers only; no swapgs barriers + spectre_v2: Vulnerable IBPB: disabled STIBP: disabled + srbds: Vulnerable: No microcode + tsx_async_abort: Not affected

Firefox-bin 84

Firefox-bin 84 try2

Processor: Intel Core i7-3615QM @ 3.30GHz (4 Cores / 8 Threads), Motherboard: Apple Mac-C3EC7CD22292981F (262.0.0.0.0 BIOS), Chipset: Intel 3rd Gen Core DRAM, Memory: 8GB, Disk: 251GB APPLE SSD SM256E, Graphics: Intel NVIDIA NVE7 1GB (1200MHz), Audio: Cirrus Logic CS4206, Monitor: Color LCD, Network: Broadcom NetXtreme BCM57786 PCIe + Broadcom BCM4331 802.11a/b/g/n

OS: Gentoo/Linux, Kernel: 5.9.14-gentoo-x86_64-gcc (x86_64), Desktop: Xfce, Display Server: X Server 1.20.10, Display Driver: nouveau 1.0.16, Compiler: GCC 10.2.0 + Clang 11.0.0Target: + LLVM 11.0.0, File-System: ext4, Screen Resolution: 2880x1800

Processor Notes: Scaling Governor: intel_cpufreq performance - CPU Microcode: 0x21
Python Notes: Python 3.9.1
Security Notes: itlb_multihit: KVM: Mitigation of VMX disabled + l1tf: Mitigation of PTE Inversion; VMX: vulnerable + mds: Vulnerable; SMT vulnerable + meltdown: Vulnerable + spec_store_bypass: Vulnerable + spectre_v1: Vulnerable: __user pointer sanitization and usercopy barriers only; no swapgs barriers + spectre_v2: Vulnerable IBPB: disabled STIBP: disabled + srbds: Vulnerable: No microcode + tsx_async_abort: Not affected

Firefox 84 Default

Processor: Intel Core i7-3615QM @ 3.30GHz (4 Cores / 8 Threads), Motherboard: Apple Mac-C3EC7CD22292981F (262.0.0.0.0 BIOS), Chipset: Intel 3rd Gen Core DRAM, Memory: 8GB, Disk: 251GB APPLE SSD SM256E, Graphics: Intel NVIDIA NVE7 1GB, Audio: Cirrus Logic CS4206, Monitor: Color LCD, Network: Broadcom NetXtreme BCM57786 PCIe + Broadcom BCM4331 802.11a/b/g/n

OS: Gentoo/Linux, Kernel: 5.9.15-gentoo-x86_64-gcc (x86_64), Desktop: Xfce, Display Server: X Server 1.20.10, Display Driver: nouveau 1.0.16, Compiler: GCC 10.2.0 + Clang 11.0.0Target: + LLVM 11.0.0, File-System: ext4, Screen Resolution: 2880x1800

Processor Notes: Scaling Governor: intel_cpufreq schedutil - CPU Microcode: 0x21
Python Notes: Python 3.9.1
Security Notes: itlb_multihit: KVM: Mitigation of VMX disabled + l1tf: Mitigation of PTE Inversion; VMX: vulnerable + mds: Vulnerable; SMT vulnerable + meltdown: Vulnerable + spec_store_bypass: Vulnerable + spectre_v1: Vulnerable: __user pointer sanitization and usercopy barriers only; no swapgs barriers + spectre_v2: Vulnerable IBPB: disabled STIBP: disabled + srbds: Vulnerable: No microcode + tsx_async_abort: Not affected

Firefox 84 Default2

Processor: Intel Core i7-3615QM @ 3.30GHz (4 Cores / 8 Threads), Motherboard: Apple Mac-C3EC7CD22292981F (262.0.0.0.0 BIOS), Chipset: Intel 3rd Gen Core DRAM, Memory: 8GB, Disk: 251GB APPLE SSD SM256E, Graphics: NVIDIA NVE7 1GB (1200MHz), Audio: Cirrus Logic CS4206, Monitor: Color LCD, Network: Broadcom NetXtreme BCM57786 PCIe + Broadcom BCM4331 802.11a/b/g/n

OS: Gentoo/Linux, Kernel: 5.10.1-gentoo-r1-x86_64-gcc (x86_64), Desktop: Xfce, Display Server: X Server 1.20.10, Display Driver: nouveau 1.0.16, OpenGL: 4.3 Mesa 20.3.1, Compiler: GCC 10.2.0 + Clang 11.0.0Target: + LLVM 11.0.0, File-System: ext4, Screen Resolution: 2880x1800

Kernel Notes: i915.fastboot=1
Processor Notes: Scaling Governor: intel_cpufreq schedutil - CPU Microcode: 0x21
Python Notes: Python 3.9.1
Security Notes: itlb_multihit: KVM: Mitigation of VMX disabled + l1tf: Mitigation of PTE Inversion; VMX: vulnerable + mds: Vulnerable; SMT vulnerable + meltdown: Vulnerable + spec_store_bypass: Vulnerable + spectre_v1: Vulnerable: __user pointer sanitization and usercopy barriers only; no swapgs barriers + spectre_v2: Vulnerable IBPB: disabled STIBP: disabled + srbds: Vulnerable: No microcode + tsx_async_abort: Not affected

Firefox 84 lto

Processor: Intel Core i7-3615QM @ 3.30GHz (4 Cores / 8 Threads), Motherboard: Apple Mac-C3EC7CD22292981F (262.0.0.0.0 BIOS), Chipset: Intel 3rd Gen Core DRAM, Memory: 8GB, Disk: 251GB APPLE SSD SM256E, Graphics: NVIDIA NVE7 1GB, Audio: Cirrus Logic CS4206, Monitor: Color LCD, Network: Broadcom NetXtreme BCM57786 PCIe + Broadcom BCM4331 802.11a/b/g/n

OS: Gentoo/Linux, Kernel: 5.10.2-gentoo-x86_64-gcc (x86_64), Desktop: Xfce 4.16, Display Server: X Server 1.20.10, Display Driver: nouveau 1.0.16, OpenGL: 4.3 Mesa 20.3.1, Compiler: GCC 10.2.0 + Clang 11.0.0Target: + LLVM 11.0.0, File-System: ext4, Screen Resolution: 2880x1800

Processor Notes: Scaling Governor: intel_cpufreq schedutil - CPU Microcode: 0x21
Python Notes: Python 3.9.1
Security Notes: itlb_multihit: KVM: Mitigation of VMX disabled + l1tf: Mitigation of PTE Inversion; VMX: vulnerable + mds: Vulnerable; SMT vulnerable + meltdown: Vulnerable + spec_store_bypass: Vulnerable + spectre_v1: Vulnerable: __user pointer sanitization and usercopy barriers only; no swapgs barriers + spectre_v2: Vulnerable IBPB: disabled STIBP: disabled + srbds: Vulnerable: No microcode + tsx_async_abort: Not affected

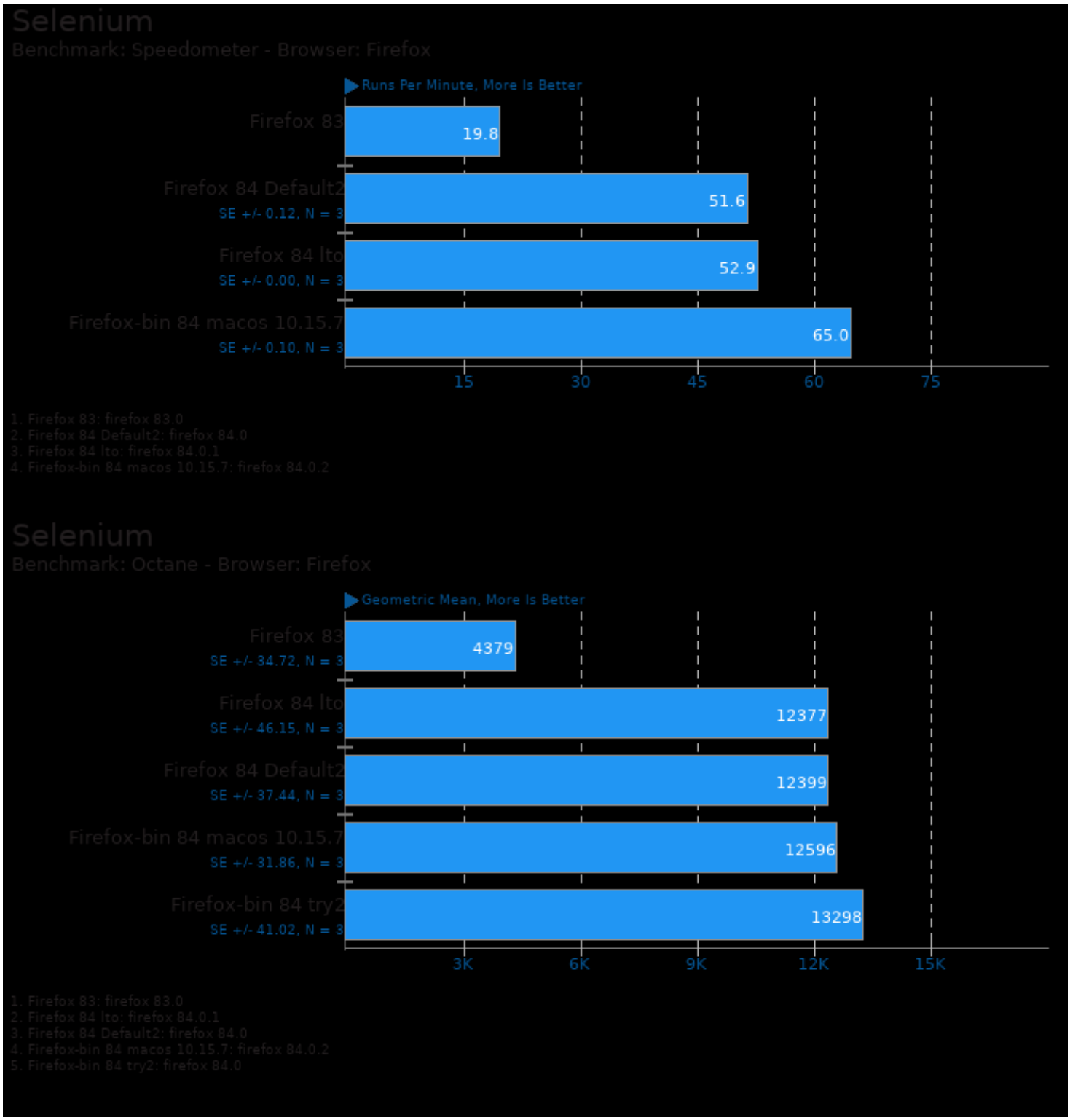
Firefox-bin 84 macos 10.15.7

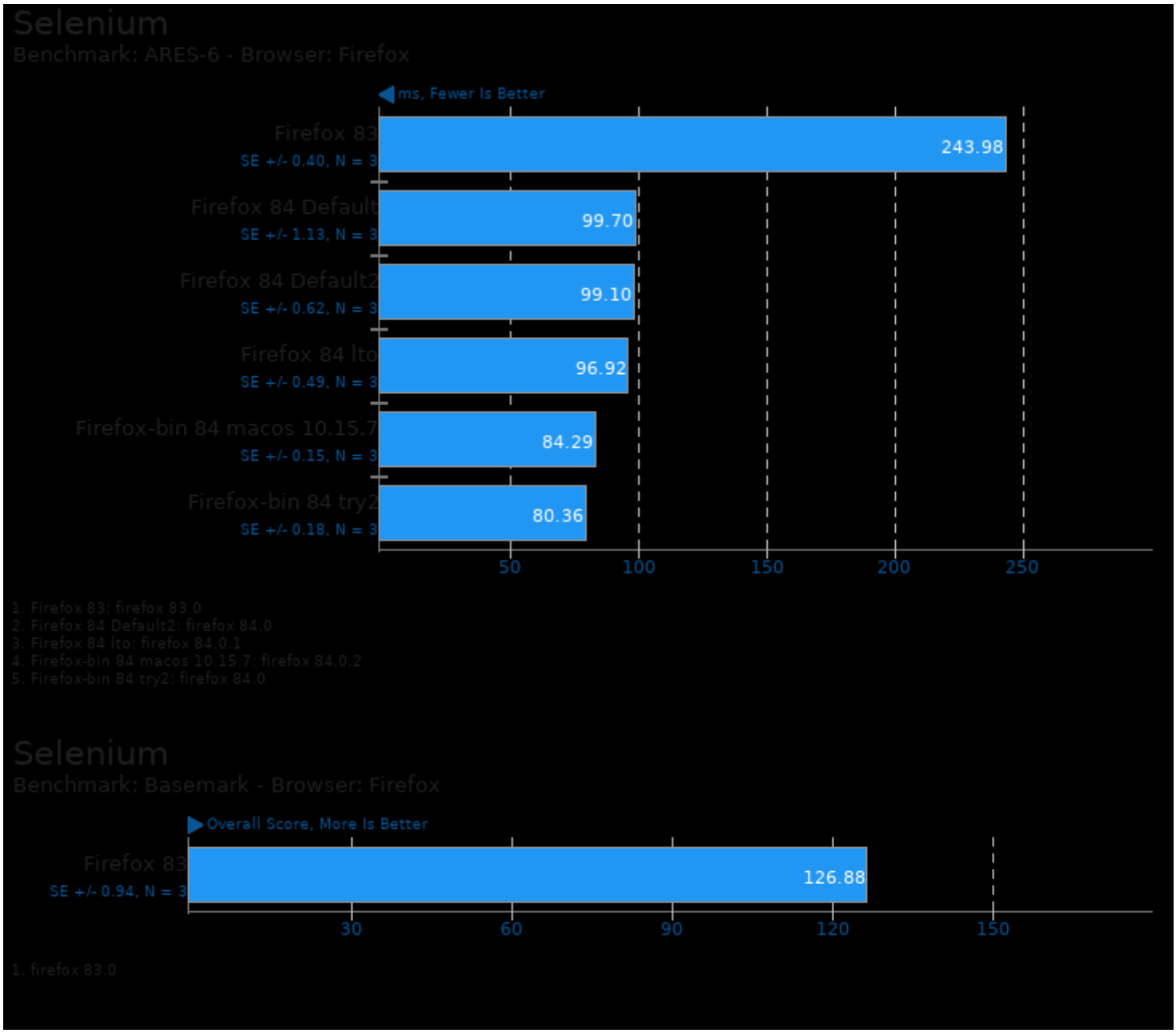
Processor: Intel Core i7-3615QM @ 2.30GHz (4 Cores / 8 Threads), Motherboard: Apple MacBook Pro, Chipset: Intel 7, Memory: 2 x 4 GB DDR3-1600MHz, Disk: 251GB APPLE SSD SM256E, Graphics: Intel HD 4000 + NVIDIA GeForce GT 650M 2GB, Monitor: Color LCD

OS: macOS 10.15.7, Kernel: 19.6.0 (x86_64), Compiler: Clang 12.0.0 + GCC 12.0.0 + Xcode 12.3, File-System: APFS, Screen Resolution: 2880x1800

Environment Notes: LDFLAGS=-L/usr/local/opt/openssl@1.1/lib CPPFLAGS=-I/usr/local/opt/openssl@1.1/include XPC_FLAGS=0x0
Processor Notes: CPU Microcode: 33
Python Notes: Python 2.7.16 + Python 3.9.1

	Firefox 83	Firefox-bin 84	Firefox-bin 84 try2	Firefox 84 Default	Firefox 84 Default2	Firefox 84 lto	Firefox-bin 84 macos 10.15.7
Selenium - Speedometer - Firefox (Runs/min)	**19.8**				51.6	52.9	**65.0**
Normalized	30.46%				79.38%	81.38%	100%
Standard Deviation					0.4%	0%	0.3%
Selenium - Octane - Firefox (Geometric Mean)	**4379**		**13298**		12399	12377	12596
Normalized	32.93%		100%		93.24%	93.07%	94.72%
Standard Deviation	1.4%		0.5%		0.5%	0.6%	0.4%
Selenium - ARES-6 - Firefox (ms)	**243.98**		**80.36**	99.70	99.10	96.92	84.29
Normalized	32.94%		100%	80.6%	81.09%	82.91%	95.34%
Standard Deviation	0.3%		0.4%	2%	1.1%	0.9%	0.3%
Selenium - Basemark - Firefox (Overall Score)	126.88						
Standard Deviation	1.3%						


Selenium
Benchmark: Speedometer - Browser: Firefox
Runs Per Minute, More Is Better
Firefox 83
19.8
Firefox 84 Default2
SE +/- 0.12, N = 3
51.6
Firefox 84 lto
SE +/- 0.00, N = 3
52.9
Firefox-bin 84 macos 10.15.7
SE +/- 0.10, N = 3
65.0
15
30
45
60
75
1. Firefox 83: firefox 83.0
2. Firefox 84 Default2: firefox 84.0
3. Firefox 84 lto: firefox 84.0.1
4. Firefox-bin 84 macos 10.15.7: firefox 84.0.2
Selenium
Benchmark: Octane - Browser: Firefox
Geometric Mean, More Is Better
Firefox 83
SE +/- 34.72, N = 3
4379
Firefox 84 lto
SE +/- 46.15, N = 3
12377
Firefox 84 Default2
SE +/- 37.44, N = 3
12399
Firefox-bin 84 macos 10.15.7
SE +/- 31.86, N = 3
12596
Firefox-bin 84 try2
SE +/- 41.02, N = 3
13298
3K
6K
9K
12K
15K
1. Firefox 83: firefox 83.0
2. Firefox 84 lto: firefox 84.0.1
3. Firefox 84 Default2: firefox 84.0
4. Firefox-bin 84 macos 10.15.7: firefox 84.0.2
5. Firefox-bin 84 try2: firefox 84.0



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