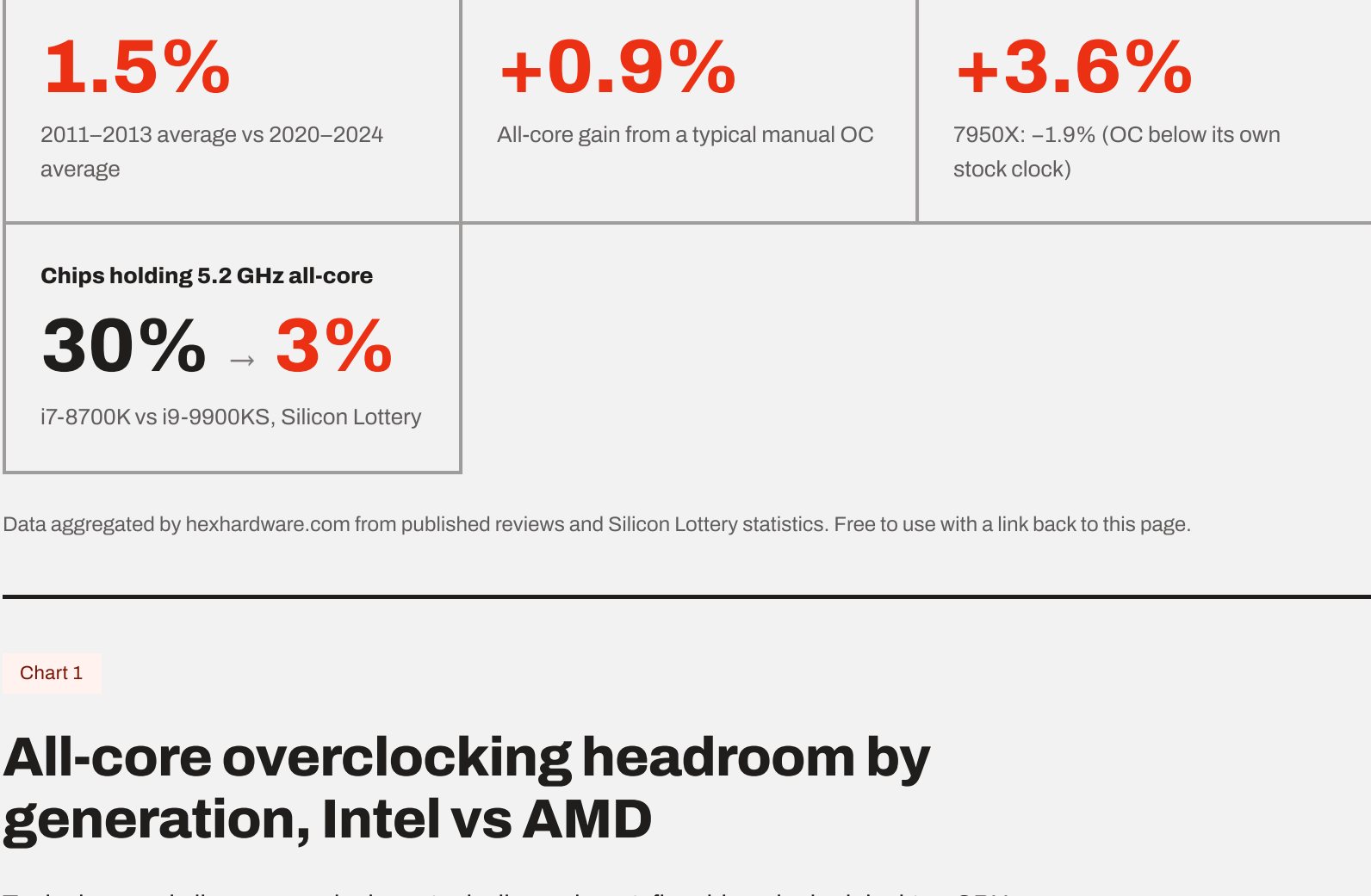
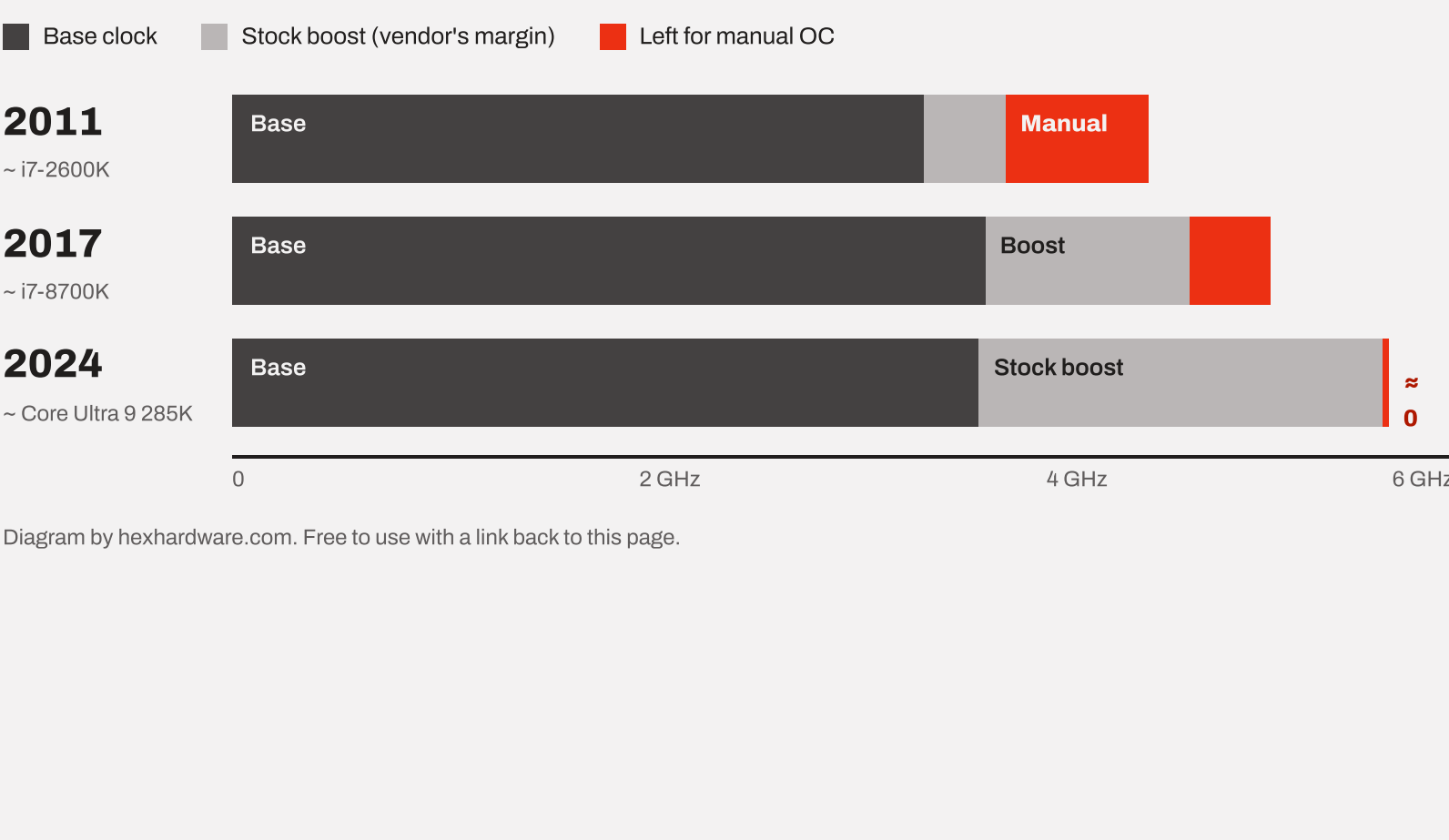
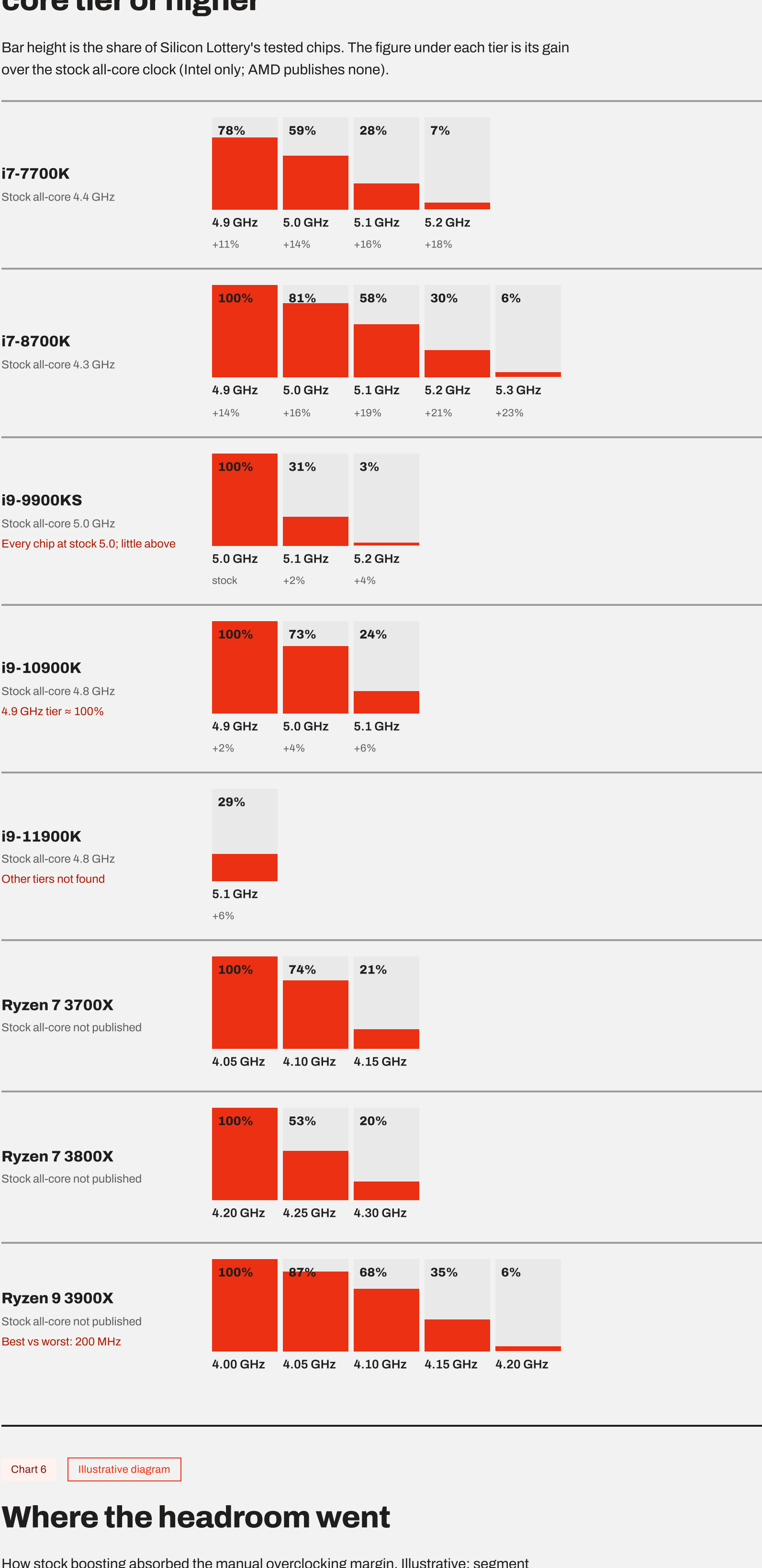
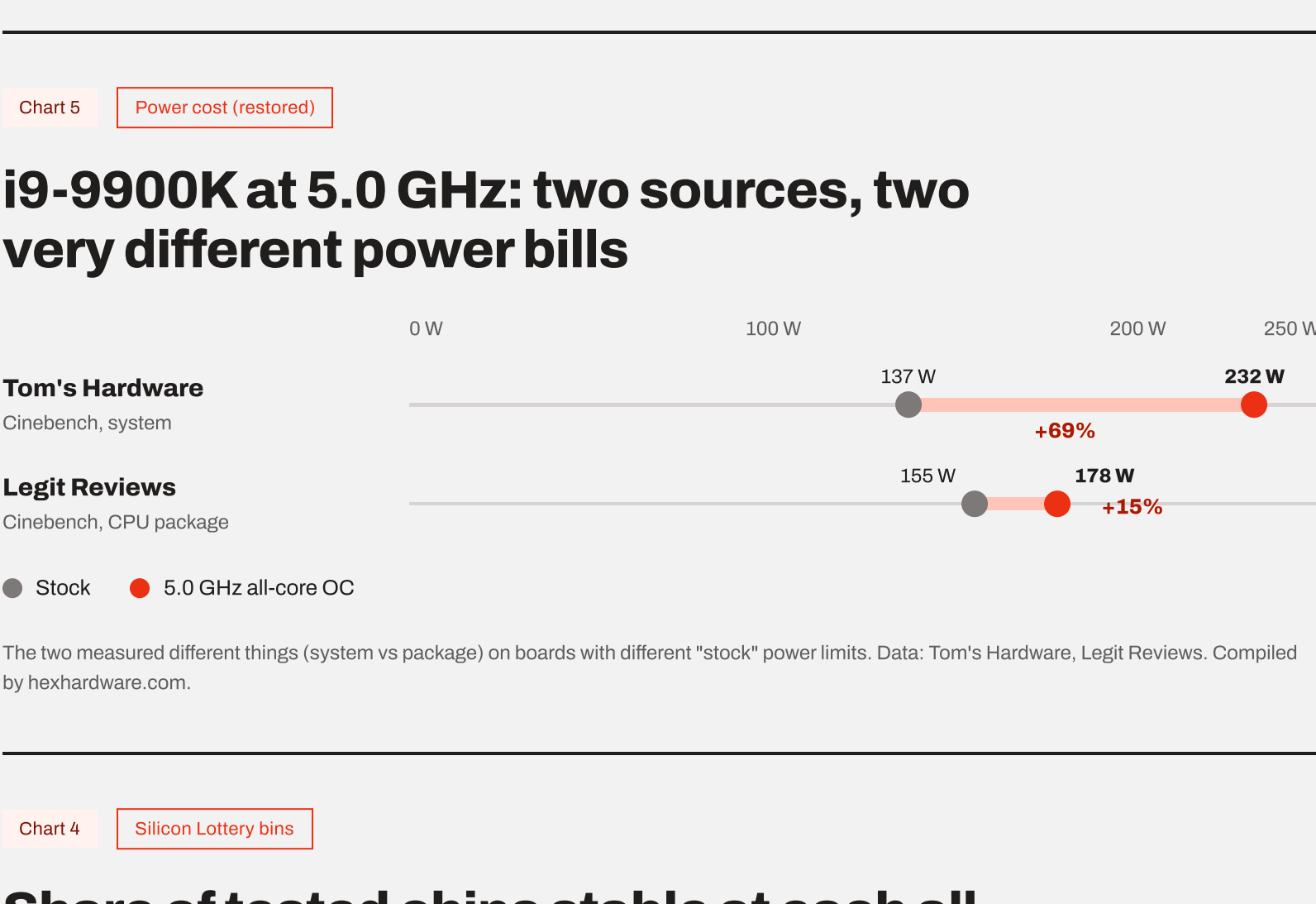
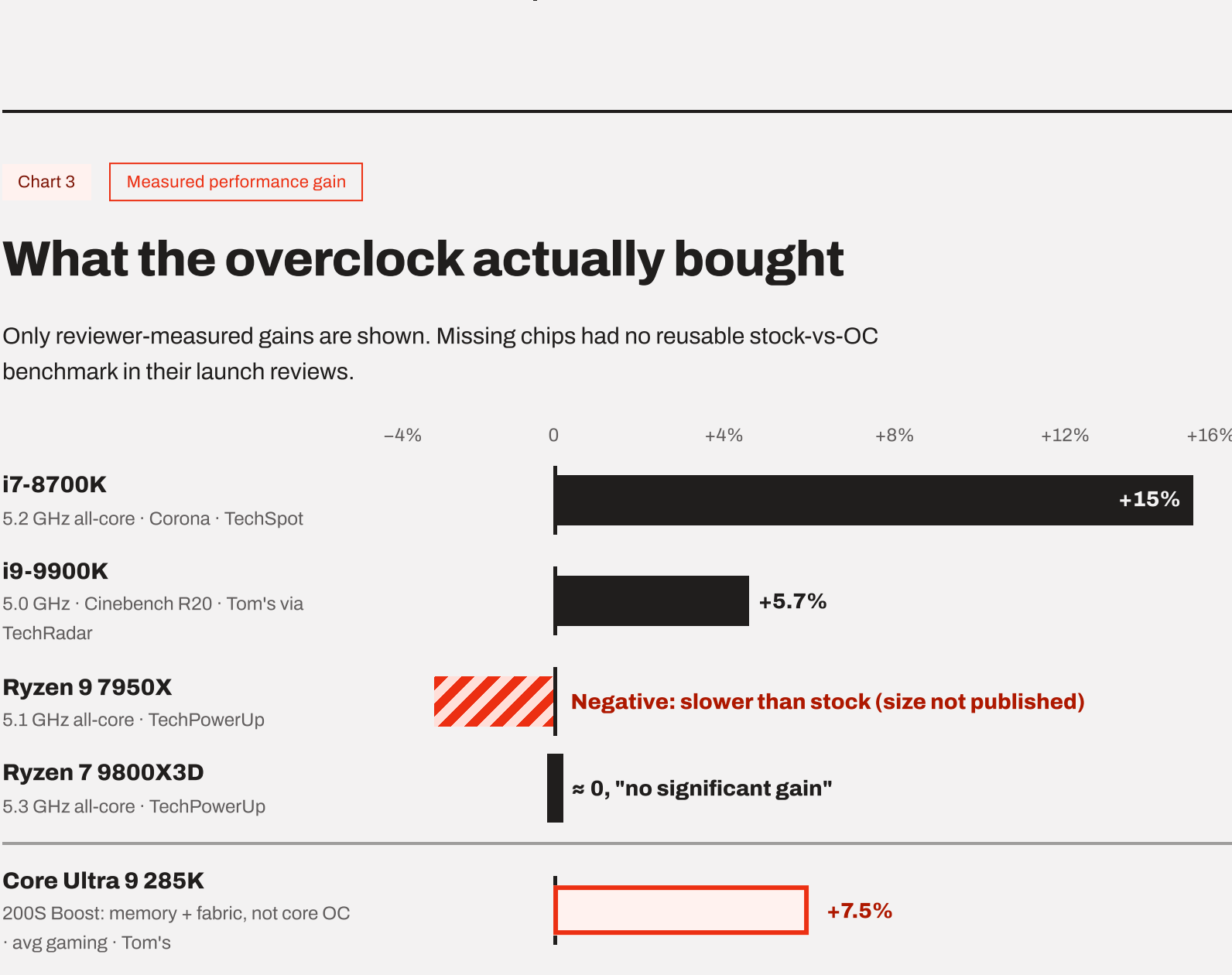
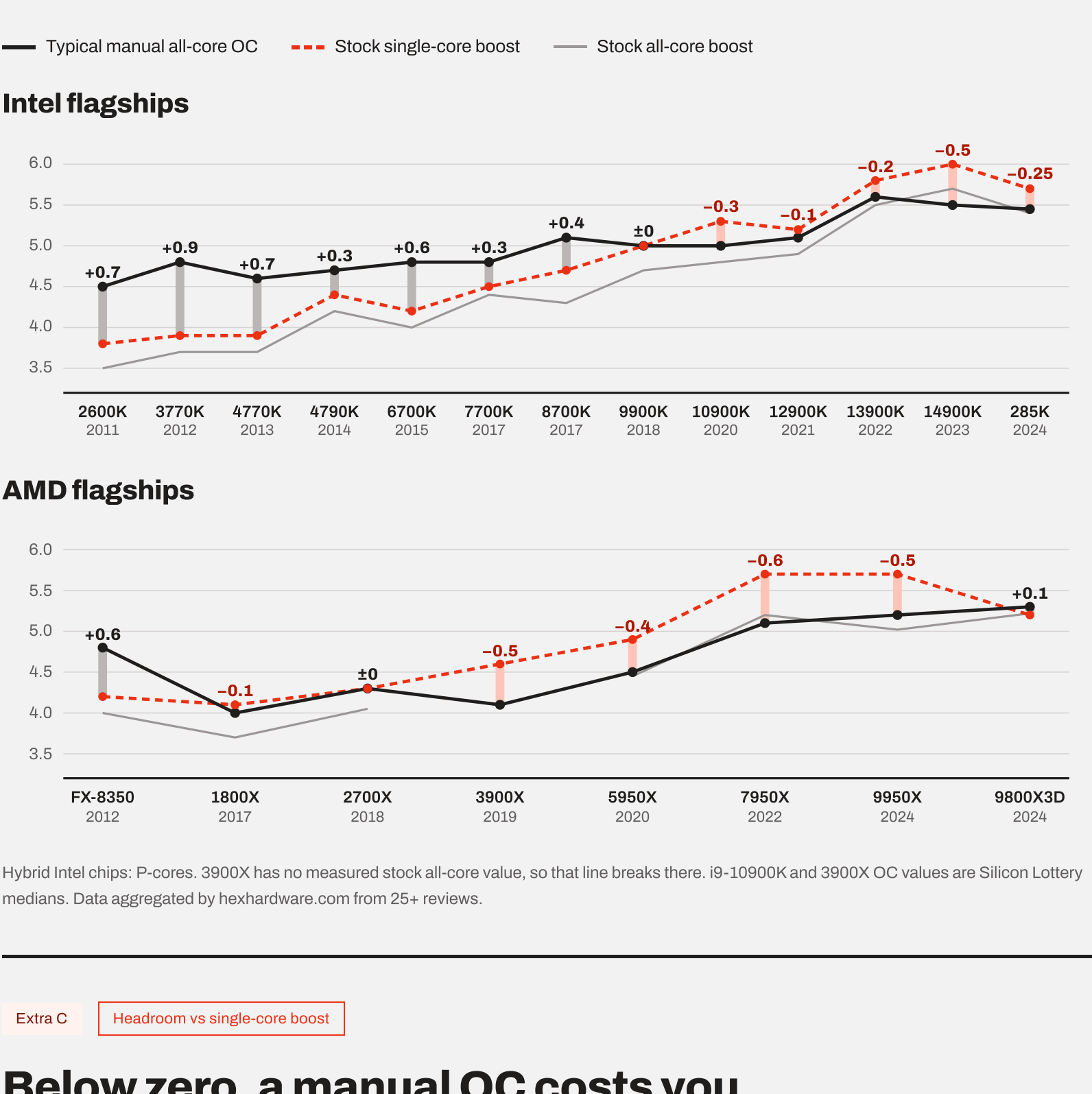
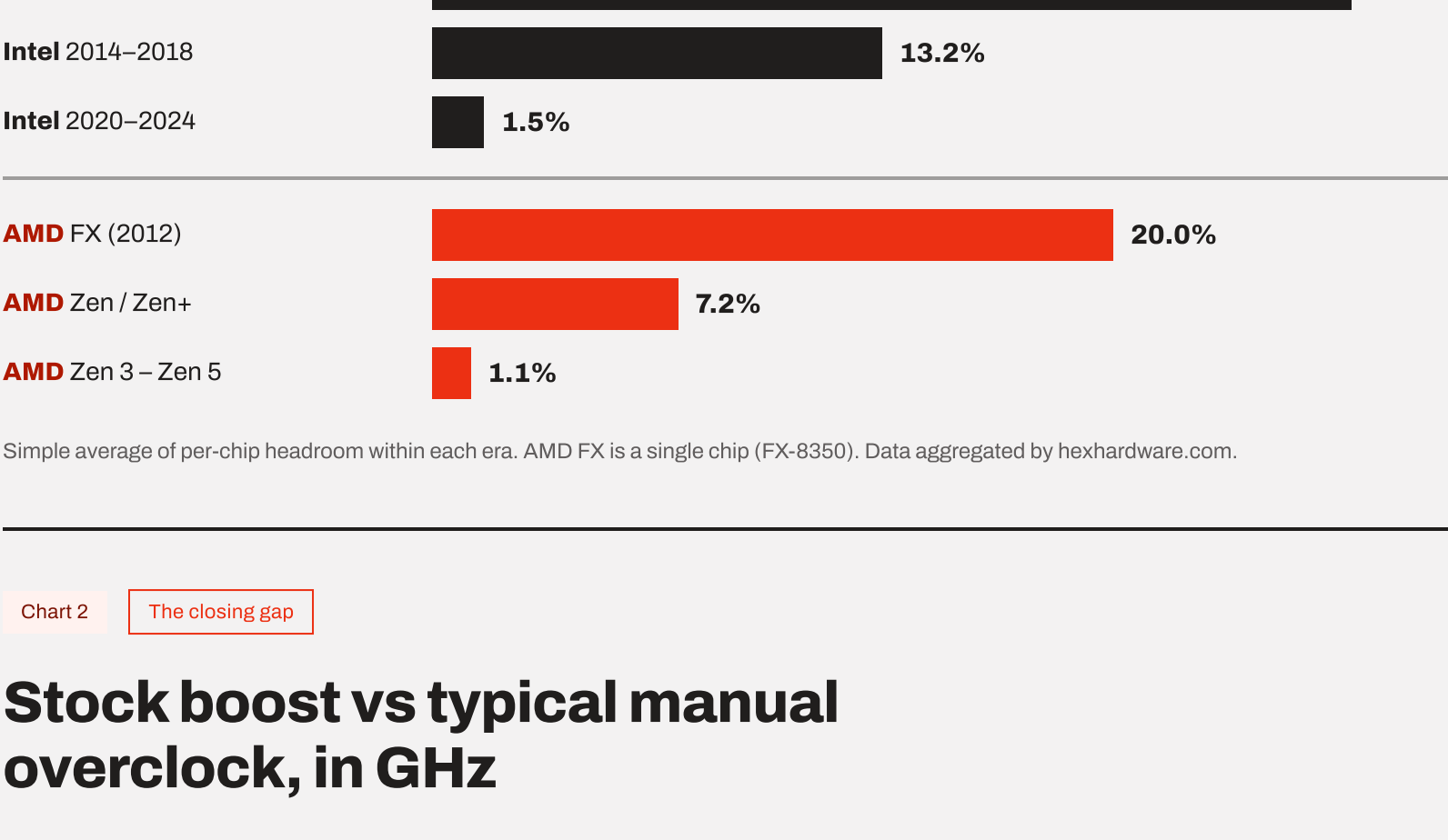
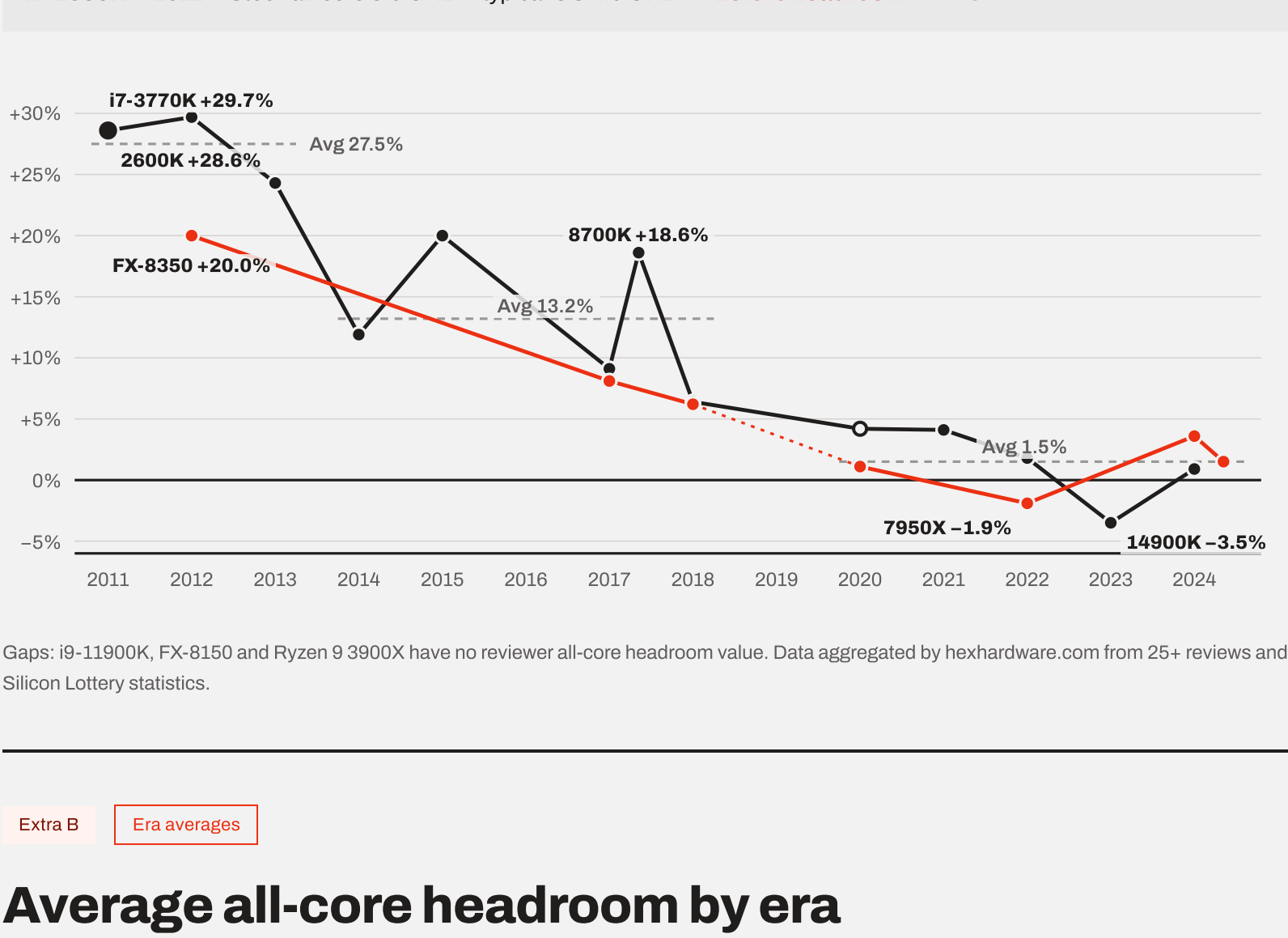


Is CPU overclocking dead?



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Boost and overclocking milestones, 2011–2026

Each change moved some of the manual overclocking margin into stock behaviour.

2011	INTEL	Turbo Boost 2.0 (Sandy Bridge) Fixed table of extra bins above base clock.
2012	INTEL	Performance Tuning Protection Plan \$19.99–\$29.99 cover for OC damage.
2017	AMD	Ryzen: Precision Boost and XFR 1800X tops out around 4.0–4.1 GHz all-core.
2018	AMD	Precision Boost 2 and PBO Boost adjusts in small steps by temperature, current, voltage.
2019	INTEL	i9-9900KS 5.0 GHz all-core from the factory; the vendor sells the headroom.
2020	AMD	PBO2 with Curve Optimizer Per-core undervolt lets the boost algorithm pick higher clocks.
Mar 2021	INTEL	Protection Plan ends No new plans after March 1, 2021.
Oct 2021	MARKET	Silicon Lottery closes Cites dwindling overclocking headroom.
2022	AMD	Zen 4: designed to run at TjMax 24/7 95°C becomes the design target.
2024	INTEL	Raptor Lake Vmin Shift fixes Intel Default Settings; microcode 0x125, 0x129, 0x12B.
2024	INTEL	Arrow Lake and 200S Boost Memory and fabric tuning under warranty.
May 2025	INTEL	Microcode 0x12F Further Vmin shift update.
Mar 2026	INTEL	Arrow Lake Refresh (Core Ultra 200S Plus) Last launch in the dataset.
2027	BOTH	Nova Lake-S and Zen 6 desktop expected Reported, not launched as of Sept 30, 2026. Outside the dataset.