

Intel Core i9 12900K P-State Governor Performance On Linux Review

By *Rianne Schestowitz*

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Since Intel's Alder Lake launch one of the test requests to come in a few times has been about the Intel P-State CPU frequency scaling driver and how its performance differs with the various governor choices available for altering the CPU frequency scaling behavior. Now that Linux 5.16 stable is out and running in good shape on Alder Lake, here are some Core i9 12900K benchmarks looking at various CPU frequency scaling choices and their impact on raw performance as well as CPU thermals and power consumption.

With Alder Lake having seen fixes in Linux 5.16 as well as ADL-S graphics being enabled by default on this new kernel, it's a good target for carrying out the P-State testing. The main reader inquiry has obviously been about how well these new Intel hybrid processors perform if moving from P-State "powersave" as is often the default governor on most distributions to instead using the "performance" governor that tends to keep the CPU in its higher performance states more aggressively than powersave.

[2]

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