While it was initially communicated by Intel that Alder Lake's Golden Cove P-Cores has AVX-512 "fused off", that has turned out not to be the case at least with the initial batch of processors and current BIOS/firmware configurations. If disabling the power-efficient Gracemont E-Cores, it's possible to enable AVX-512 and make use of it. Here are some initial AVX-512 benchmarks in such a configuration under Linux with the Core i9 12900K.

[2]

Source URL: http://www.tuxmachines.org/node/157662

Links: