

# Leaked Intel Core i9-14900k, i7-14700k and i5-14600K chip performance

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Earlier this year, there were a series of reports confirming that the Meteor Lake-S or Meteor Lake desktop chips would be difficult to launch as expected, and dismissed rumors that these are the first chips to support Windows 12. Instead, Intel seems to be preparing to refresh the Raptor Lake line with higher clocks for desktop users in 2023, and only for the mobile version of Meteor Lake. Meanwhile, Arrow Lake-S, which is expected to launch next year, will come with full Windows 12 compatibility, and become a direct competitor to AMD's Zen 5 CPU generation (Ryzen 8000 series).

The alleged specifications of the '23rd version' Raptor Lake-S series of CPUs have now been leaked. And as mentioned above, the new chips will have higher clocks (up to 6GHz with Thermal Velocity Boost), with no obvious changes to the core configuration specifications. The integrated memory controller (IMC) could be improved with support for higher clocked DDR5 modules, but this is currently unconfirmed and is an observation only. It would be quite confusing if there really were no architectural changes made. However, the good news is that users will be able to continue to take advantage of the LGA1700 socket and DDR4 memory on their older systems.

Here is the full specs sheet (leaked) of the Intel Core i9-14900K, i7-14700K and i5-14600K:

	Intel Core i5-14600K	Intel Core i7-14700K	Intel Core i9-14900K
Package	LGA 1700	LGA 1700	LGA 1700
P-Cores	6	8	8
E-Cores	8	12	16
TDP	125W	125W	125W
Base Core Frequency	3.5GHz	3.4GHz	3.2GHz
Intel Thermal Velocity Boost Technology	N/A	N/A	YES
Intel Thermal Velocity Boost Frequency	N/A	N/A	6.0GHz
Intel Turbo Boost Max Technology 3.0	N/A	YES	YES
Intel TBMT3 Frequency	N/A	5.6GHz	5.8GHz
P-Core Max Turbo Frequency	5.3GHz	5.5GHz	5.7GHz
E-Core Max Turbo Frequency	4.0GHz	4.3GHz	4.4GHz
Intel Smart Cache	24MB	33MB	36MB

Aside from the specs, the supposed performance numbers for the refreshed Raptor Lake-S have also been revealed by the igor's LAB team. Obviously, there will be a single digit % gain in most cases.

On the other hand, Arrow Lake-S can be a lot faster with up to 21% improvement. Nothing is too confusing because this is a new architecture. Besides, Arrow Lake-S will have to compete with the next generation Zen.

Finally, leaked specs show the performance to expect from integrated graphics, and it's clear that Arrow Lake-S will see big improvements here as well, with a gain of almost 2.4x. Meanwhile, it's no surprise that the refresh of the Raptor Lake-S will be essentially the same as what we have today with UHD (Intel Xe-LP) graphics.

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