International Supercomputing Conference 2023

Intel has long-standing relationships with key ecosystem members of the high performance computing and artificial intelligence communities.

May 22, 2023 — At the International Supercomputing Conference, Intel Corporation today showcased leadership performance for high performance computing (HPC) and artificial intelligence (AI) workloads; shared its portfolio of future HPC and AI products, unified by the oneAPI open programming model; and announced an ambitious international effort to use the Aurora supercomputer to develop generative AI for science and society. Intel is privileged to have deep, long-standing relationships with the key players in the ecosystem to serve the HPC and AI community with products that help our customers and end-users make breakthrough discoveries faster.

Supporting quotes:

"We're thrilled to see such remarkable performance for Altair AcuSolve on Intel Xeon CPU Max Series processors. Intel continues to be a long-term strategic partner for Altair, enabling us to push the boundaries of simulation and product innovation."

Piush Patel, senior vice president, Strategic Relationships, Altair

"Engineers are continuously challenged to innovate better and faster. To address these challenges, we're excited to see Intel driving HPC to new heights with the Intel Xeon CPU Max Series processors. In early testing of our Fluent CFD software on these processors, we're seeing up to 2.2x performance gains over the previous generation of Intel Xeon Platinum processors due to extremely high memory bandwidth from HBM as well as AVX support and high core frequency."

Wim Slagter, director, Partner Program, Ansys

"The project (generative AI for science) aims to leverage the full potential of the Aurora supercomputer to produce a resource that can be used for downstream science at the Department of Energy labs and in collaboration with others."

Rick Stevens, associate laboratory director, Argonne National Laboratory

"Excited to launch CEPP One+ with Intel, a leading-edge HPC and AI code modernization service allowing end customers to take advantage of CPU, GPU, FPGA, without vendor lock-in. Together and leveraging oneAPI, we are reducing the programming complexity, complying with industry standards and making easy adopting new innovative architectures."

Bruno Lecointe, vice president, Business Support HPC AI & Quantum, Eviden Group

"The use of accelerators and GPUs are definitely on the rise in HPC and AI, but it's not clear that much of the advantage isn't provided by high bandwidth memory. We need high-performance CPUs, too. And based on our benchmarks, the Intel Xeon Max CPU will provide clear advantages to our users."

Dan Stanzione, executive director, TACC

About Intel

Intel (Nasdaq: INTC) is an industry leader, creating world-changing technology that enables global progress and enriches lives. Inspired by Moore's Law, we continuously work to advance the design and manufacturing of semiconductors to help address our customers' greatest challenges. By embedding intelligence in the cloud, network, edge and every kind of computing device, we unleash the potential of data to transform business and society for the better. To learn more about Intel's innovations, go to newsroom.intel.com and intel.com.