Intel Max Series Product Family Quote Sheet

November 9, 2022 — Intel Corporation today introduced the Intel Max Series product family with two leading-edge products for high performance computing (HPC) and artificial intelligence (AI): Intel® Xeon® CPU Max Series and Intel® Data Center GPU Max Series. The Xeon Max CPU is the first and only x86-based processor with high bandwidth memory, accelerating many HPC workloads without the need for code changes. The Max Series GPU is Intel's highest-density processor, packing over 100 billion transistors into a 47-tile package with up to 128 gigabytes (GB) of high bandwidth memory. The new processors are united by the oneAPI open software ecosystem. Intel's close collaboration with third-party solution providers and research centers will drive the adoption of more high performance computing and AI workloads across the ecosystem.

Supporting quotes:

"Intel has been a long-time technology provider for Altair's computational fluid dynamic solutions. We're excited to integrate the Max Series CPU into our offerings for engineers and analysts, bringing best-in-class design tools to our customers, while limiting total cost of ownership."

Dr. David Curry, Sr. Vice President, CFD, Altair

"Atos and Intel have a long history of technical collaboration in delivering innovation through BullSequana HPC systems. We're excited about building upon our partnership with the Max series CPUs & GPUs to provide customers with accelerated compute capabilities for a wide range of HPC workloads through an open, flexible architecture."

Emmanuel Le Roux SVP, Global head, HPC, AI and Quantum, Atos

"The growth of memory bandwidth has been lagging HPC and AI compute performance over the last decade and is becoming a bottleneck in speed up of many workloads."

Earl Joseph, CEO, Hyperion Research

"We partnered with tech-leading companies including Intel to design Kyoto University's most recent HPC system, Camphor3, which supports computational scientists to accelerate research. Recognizing the importance of high bandwidth memory for performance, we decided to introduce the Xeon Max Series CPUs. We're excited to make it available to researchers to unleash its potential for science and human discovery."

Keiichiro Fukazawa, Associate Professor, Ph.D., Kyoto University

"We're excited to be entering this new phase of supercomputing at the Lab. Early benchmarks indicate Crossroads will provide a four-times increase in speed over Trinity, our previous Intel-based system. We are excited to utilize the capabilities of high bandwidth memory to help our scientists advance research."

Jim Lujan, HPC Platforms Program Director, Crossroads, Los Alamos National Laboratory

"The Fugaku supercomputer was the first to use high bandwidth memory for HPC and we've seen the incredible productivity boost it gives researchers. Pairing this technology with Intel Xeon platform and its large user base will benefit the HPC and AI community and is critical to accelerate innovation in science and engineering."

Satoshi Matsuoka, Director, Riken Center for Computational Science

"Supermicro continues to bring its time-to-market advantage to customers that demand high-performance, heterogenous compute for demanding applications. We are pleased to announce the support for the Xeon Max series CPU & GPUs to accelerate HPC, AI, ML/DL training, scientific research, and rendering applications."

Charles Liang, President and CEO, Supermicro

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.