京都大学
KYOTO UNIVERSITY

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Kyoto University Extends HPC Capacity with 4th Gen Intel® Xeon® Processors

Kyoto University with collaborative campuses across Japan and extended schools around the world, hosts its Academic Center for Computing and Media (ACCMS). The ACCMS supports academic studies in computing and media, and hosts several High-Performance Computing (HPC) systems for computational research. Research and development of simulation codes and computational practices have evolved over the years. Many codes are memory-bandwidth-bound by the existing HPC resources. After two years of technology research, design, and a tender, in 2023 the ACCMS will install three new supercomputers. The new systems are built on the latest generation of Intel® Xeon® processors to address user needs for high-performance memory bandwidth, large memory, and high parallel performance in a balanced HPC infrastructure.

"My Magnetohydrodynamic simulation code can achieve about five times better node performance than the old system. I was also able to use the test model with the Intel Xeon Max Series CPUs with HBM2e and saw three times better node performance than the new Laurel 3. Thus, I really expect high performance with Intel Max Series CPUs."[1]

Keiichiro Fukazawa, Associate Professor, ACCMS

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