1.24 petaFLOPS

peak performance (TOKI-RURI).[1]

Japan Aerospace Exploration Agency's Multi-cluster TOKI Supercomputer Launched

The Japan Aerospace Exploration Agency (JAXA) is the core agency that supports Japan's overall space development and utilization. The JAXA Supercomputing Systems (JSS) deliver the computational resources to enable JAXA to conduct everything from basic research to development and utilization in the field. To continue to advance space exploration, discovery, design, and implementation, JAXA needed mainstream support for AI and to advance their computational workloads with higher performance computing. A new JSS3 system, called TOKI, was recently installed and hosts a large memory, general-purpose HPC cluster. TOKI-RURI and so on is built on Intel HPC technologies with 2nd Gen Intel® Xeon® Scalable processors and Intel® Optane™ persistent memory.

"JAXA scientists are efficiently developing wider area applications using Intel Advanced Vector Extensions 512 (Intel AVX512) and Intel DL Boost with Intel oneAPI Base toolkit and the Intel oneAPI HPC Toolkit."

Naoyuki Fujita, manager of Supercomputer Division, JAXA

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