



3.8X faster
than the previous Yukawa
Institute of Theoretical Physics
system.¹

Yukawa-21 Supercomputer Supports Workloads from Astronomical to Quantum

Kyoto University (Kyoto U) is a world-class research and education institution. The university has a broad research community that relies on High Performance Computing (HPC) to contribute to worldwide knowledge. The Yukawa Institute for Theoretical Physics (YITP) at Kyoto U is one of the world's great centers for the study of theoretical physics. They rely on supercomputing for simulations that bring new insights and discoveries. YITP upgraded their computing resources with a 1.3 petaFLOPS cluster built on Dell EMC PowerEdge 4-socket servers with 2nd Gen Intel® Xeon® Scalable processors.² The new system allows YITP researchers to run a wide scale of workloads, from quantum to astronomical simulations in shorter time and to explore new subjects not possible before.

“The advanced Intel compilers and CPUs are essential factors leading to the achievements of our research. The benchmark calculations have proven the significant improvements in the performance compared with the previous system.”

Naoyuki Itagaki,
researcher, YITP

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^{1, 2} For more complete information about performance and benchmark results, visit <https://www.intel.com/content/www/us/en/customer-spotlight/stories/kyoto-university-customer-story.html>