

Osaka University CMC Enables Large-scale Interdisciplinary Research

Osaka University Cybermedia Center (CMC) provides supercomputing resources for a wide range of science, from physical to life sciences and more. In 2017, The CMC deployed OCTOPUS, 1.463 petaFLOPS, world-class, heterogeneous cluster with Intel® Xeon® Scalable processors. OCTOPUS has allowed new levels of discovery. To continue the university's leading position in scientific research, CMC deployed SQUID in 2021. The new cluster, built by NEC with 3rd Gen Intel® Xeon® Scalable processors, is over 11 times faster than CMC's previous system with a peak performance of over 16 petaFLOPS.¹ It will allow Osaka University to support new initiatives and interdisciplinary research cross the sciences, using shared data and expanded capacity and capabilities.

"Five challenges were explored in deploying SQUID: HPC and HPDA integration, cloud bursting, a secure computing environment, tailor-made computing, and data aggregation. SQUID was designed around these five criteria."

Dr. Susumu Date,
Associate Professor,
Osaka University CMC

Products and Solutions

[3rd Gen Intel® Xeon® Scalable Processors](#)
[Intel® Deep Learning Boost](#)

Industry

Education

Organization Size

11-50

Country

Japan

Partners

[NEC](#)
[Data Direct Networks](#)

Learn more

[Case Study](#)