AIST
Create the Future, Collaborate Together

ABCI
AI Bridging Cloud Infrastructure

ABCI 3.0 :
World Class Large-Scale Open AI Infrastructure

- Since its launch in 2018, it was reborn as “ABCI 3.0” in January 2025, achieving a dramatic leap in performance.
- With an AI processing performance of 6.22 EFLOPS, ABCI 3.0 empowers research and development of foundation models and large-scale AI in Japan.

Overview

ABCI 3.0 consists of 766 servers equipped with 6,128 NVIDIA H200 GPUs, delivering a peak performance of 6.22 EFLOPS (FP16) while balancing extreme compute power with eco-friendly design featuring a PUE of 1.16.

As an open platform, it combines high-performance, robust infrastructure with a user-friendly interface, powering research initiatives like *FRONTia*.

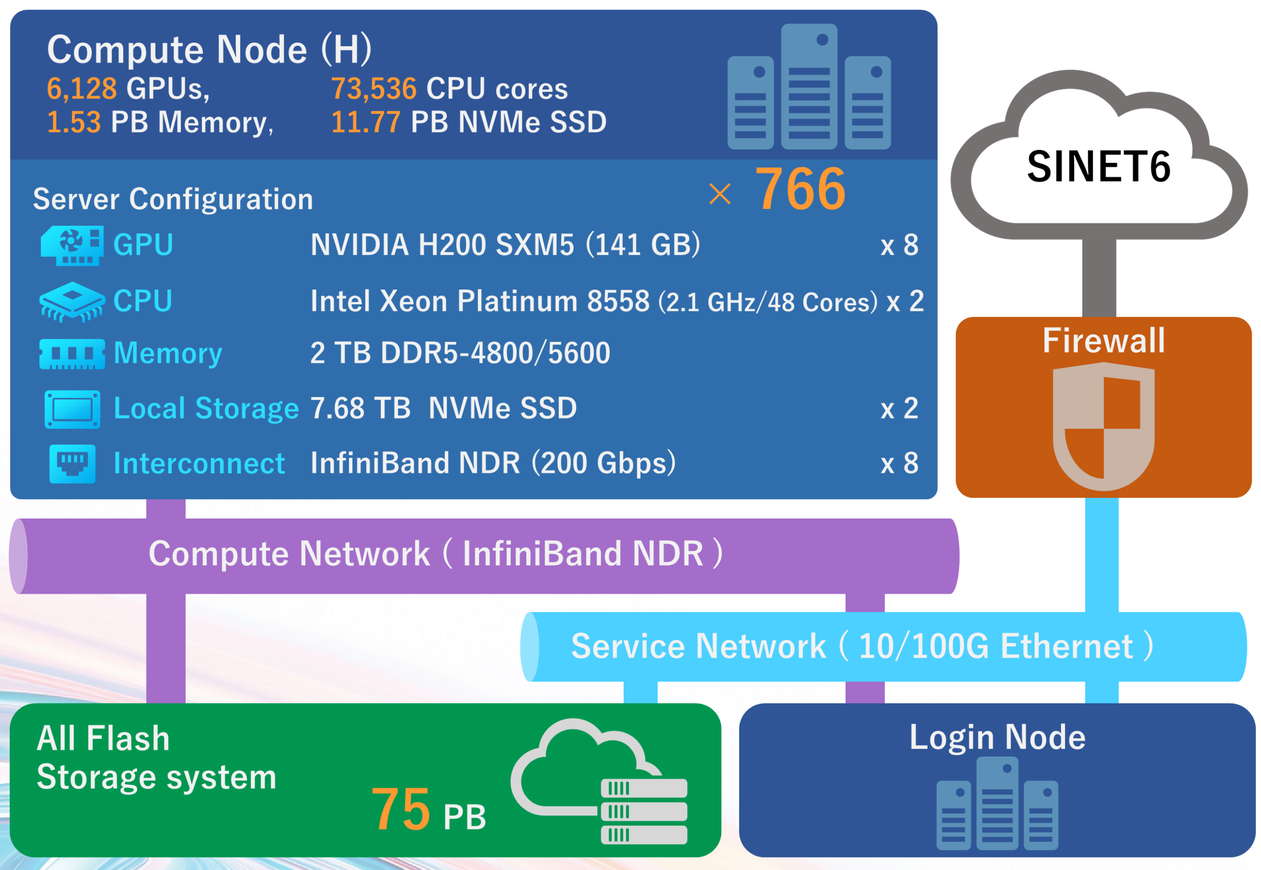


ABCI 3.0 designed by AIST

FRONTia

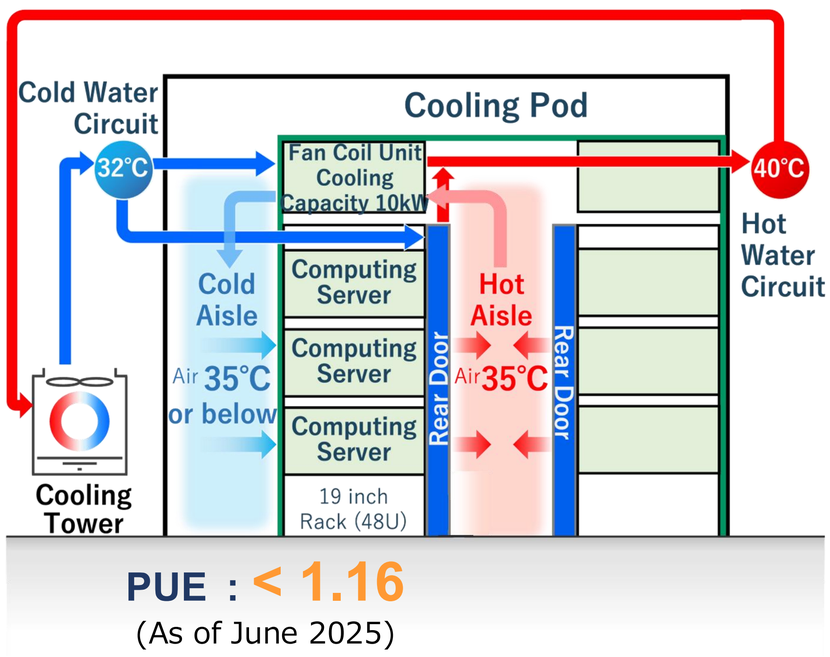
FRONTia is a national flagship project uniting cutting-edge AI expertise and field-proven industrial excellence into the next paradigm of AI—multimodal foundation models with physical intelligence that empower society.

System Architecture



Peak Performance

- AI Performance (FP16) : **6.22** EFLOPS
- FP64 Performance : **415** PFLOPS



PUE : < 1.16
(As of June 2025)

ABCI 3.0 supports a broad range of workloads, including large-scale model training, inference, scientific simulation, data analytics, and AI-enabled engineering.

AIST SOLUTIONS
AIST GROUP
ABCI Business Group, AIST Solutions Co.
Contact : inquiry@abci.ai

ABCI Website

25TH ANNIVERSARY

AIST
Create the Future, Collaborate Together

AIST SC Website