PRIMERGY CX400 M4
FUJITSU Server PRIMERGY Scale out Systems

Density optimized server infrastructures for HPC, cloud and hyper-converged computing.

<table>
<thead>
<tr>
<th>PRIMERGY CX600</th>
<th>PRIMERGY CX1640</th>
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<tbody>
<tr>
<td>Extreme high density</td>
<td>Parallel computing node powered by Intel® Xeon Phi™</td>
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<tr>
<td>chassis with up to eight</td>
<td>Processor with up to 72 cores</td>
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<tr>
<td>nodes for highly parallel computing</td>
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<thead>
<tr>
<th>PRIMERGY CX400</th>
<th>PRIMERGY CX2550</th>
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<tbody>
<tr>
<td>Workload-specific power</td>
<td>Cloud/HPC optimized half-width 1U server node</td>
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<td>in a compact and modular form factor</td>
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<tr>
<th>PRIMERGY CX2560</th>
<th>PRIMERGY CX2570</th>
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<tbody>
<tr>
<td>All-round half-width 1U</td>
<td>HPC/VDI optimized half-width 2U server node</td>
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<td>server node</td>
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NEW Completely new and improved portfolio of PRIMERGY CX400 M4 and ecosystem
Overview

- Half-width 2U server node
- Up to 2x CX2570 M4 per CX400 M4 chassis
- 2x Intel® Xeon® Processor Scalable Family (3x Ultra Path Interconnect (UPI) links)
- 16 DIMMs per node (up to 2,048 GB DDR4 memory)
- 2x GPU (PCIe) or 4x GPU (SXM2 with LC)
- 1x DynamicLoM OCP + 1x PCIe slot (Gen3 x16)
- 2x 1GbE (Mgmt. LAN / Onboard NIC)
- Up to 6x 2.5” SAS/SATA (thereof 2x PCIe)
- Internal Boot Devices: 1x mirrored USB / 2x M.2 slots (PCIe/SAS)
- 1x TPM / 1x MicroSD for BMC

Usage Scenarios

- Virtualized Desktop Infrastructures
- High Performance and Technical Computing
Case Study: ABCI

AI Processing Performance of 550 Petaflops

- Customer: AIST (National Institute of Advanced Industrial Science and Technology)
- Theoretical Peak Performance: 550PF (half-precision), 37PF (double-precision)
- Scheduled Operational Start: FY2018～
- Main System Configuration:
  - PRIMERGY CX2570 M4 (1,088 Nodes, 2,176 CPUs)
  - NVIDIA® Tesla® V100 (4,352 GPUs)
  - Intel® SSD DC P4600 Series
- The system will be established at the University of Tokyo’s Kashiwa II Campus’ ABCI Data Center
Case Study: Kyushu University

Top-class Japan-based Supercomputer

- Customer: Research Institute for Information Technology at Kyushu University
- Theoretical Peak Performance: Approximately 10PF
- Scheduled Operational Start: January, 2018
- Main System Configuration:
  - 2,128 PRIMERGY CX400 M4 computational nodes
  - 128 CX400 M4 servers will have 4 NVIDIA® P100 GPUs, each
  - Equipped with NVIDIA® NVLink™
Taiwan’s Top-Performing Supercomputer

- **Customer:** NCHC (National Center for High-performance Computing)
- **Theoretical Peak Performance:** Over 3.48PF (2.13PF: CPUs, 1.35PF: GPUs)
- **Scheduled Operational Start:** May 2018～
- **Main System Configuration:**
  - 715 servers, 631 CX400 M4 computational nodes
  - 64 NVIDIA® acceleration nodes equipped with NVIDIA® P100 GPUs
  - Intel® Omni-Path Architecture
Case Study: Oakforest-PACS

Now the Fastest x86-based Supercomputer in Japan

- Customer: JCAHPC (Joint Center for Advanced High Performance Computing)
- Theoretical Peak Performance: 25PF
- Operational Start: December 2016～
- Main System Configuration:
  - 8,208 PRIMERGY CX600 M1 computational nodes (Intel® Xeon Phi™)
  - Intel® Omni-Path Architecture
- Tokyo University and Tsukuba University share this system.
Case Study: Tohoku University

“Next-generation Research Fusion” Supercomputer System

- Customer: Institute of Fluid Science, Tohoku University
- Theoretical Peak Performance: More than 2.7PF
- Scheduled Operational Start: FY2018
- Main System Configuration
  - Multiple calculation systems by PRIMERGY
  - Log-in server
  - Application
  - Remote graphics server
  - Visualization system
  - Visualization server
  - Storage, etc.
  - Water cooling