Next Generation Cloud Infrastructure in the Age of AI
Wiwynn OCP/Project Olympus, RSD
Enabled Hardware, and Cluster Manager on OCP 12/48v Racks

Ethan Yang / Deputy Manager / Wiwyynn
OCP Ecosystem Grows into an Age of AI

Fundamental Demands for Various Applications

Applications
Various Evolving Applications

Infrastructures
Building Blocks and IT Gears on Advanced Technologies
Wiwynn Updates 3 Cloud Infrastructures

INFRARSTRUCTURES
Building Blocks and IT Gears on Advanced Technologies

OCP Rack Infrastructure
Project Olympus Infrastructure
Compute Accelerator
Updated Building Blocks of the Infrastructures

OCP Rack Infrastructure

Project Olympus Infrastructure

Compute Accelerator

Tioga Pass (SV7220G3)
Yosemite V2 (SV7100G2)
Bryce Canyon (ST7000G2)
Project Olympus Compute Server (SV5100G3)
Project Olympus All-Flash Storage (ST5100)
Dr.Know G1 (XC200)
Dr.Know G2 (XC200G2)
Wiwynn Booth Visualization

Cluster Manager with RSD

48V Solutions

Compute Accelerators

OCP Products

Project Olympus
Live Demo of 48V 2 stage solutions
The First PCIe 4.0 Disaggregated Compute Accelerator for AI and HPC

Wiwynn XC200G2 (4U16B Compute Accelerator)

224T+ FLOPS

16x GPGPU / FPGA

Up to 16 PCIe 4.0 Slots

5Kw

4 HOST CONNECTIONS
Support 1, 2, 4 hosts

By Single-precision floating-point

Efficient Thermal Solutions
The Best Disaggregated Storage for Storage and Data-Intensive Applications

Wiwynn ST5100 (1U16B NVMe JBOF)

- **Throughput**: 28 GB/s by 128K Sequential Read
- **Density**: 24 Bays in 1U space
- **IOPS**: >5 Millions by 4K Random Read
- **Power Consumption**: 500 W

**Wiwynn**
RSD Enabled Building Blocks

- OCP 12V
- OCP 48V
- EIA 19"
- RSD Enabled
- Interoperability

21” Tioga Pass (SV7220G3/H3)
21” Bryce Canyon (ST7000G2/H2)
21” Lightning (ST7200/H)
19” Multi-purpose Server (ST300G3)
19” Compute Accelerator (XC200G2)
Software Defined Data Center

BIG DATA ANALYTICS

Scale Up Dynamically

CLOUD SERVICE

Disaggregated and Composable Rack Solution

Physical Infrastructure

Logical Infrastructure

Optimize for Workload
Fundamental Demands in the Age of AI

OCP U.S. SUMMIT 2018
March 20-21 | San Jose, CA

March 20 / 3:10 – 3:35pm
210 GH Executive Talks
Satisfying Future Data Center Needs with Latest Technology

Sunlai Chang, Senior VP and CTO, Wiwynn