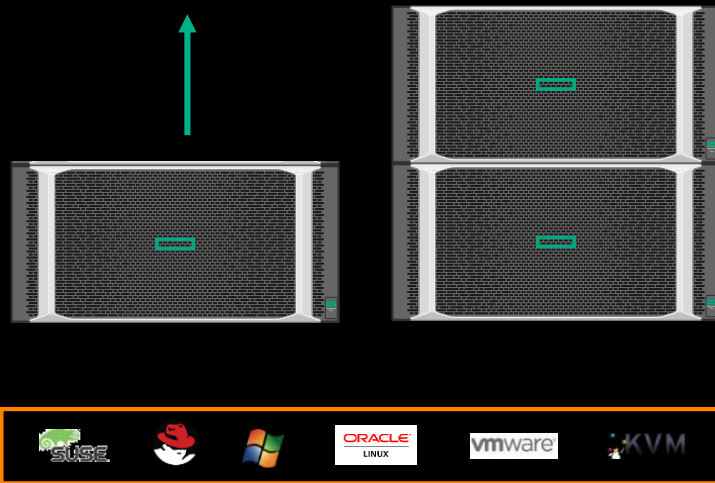# HPE SUPERDOME FLEX 280 SERVER

Product Overview

Begins shipping in CQ4 of 2020!

Scalability and performance

- 3rd generation Intel® Xeon® Scalable processors, gold or platinum, up to 28 cores
- Modular scale-up 5U building block/chassis (2 or 4 sockets per chassis)
- "Glueless" modular architecture with 6 UPI links/processor for higher bandwidth and faster data rates
- Scale from 2-8 sockets in 2-socket increments, with 16-224 cores
- Designed to provide 64GB to 24TB of shared memory using DRAM only or in combination with persistent memory
- Optional Intel® Optane™ Persistent Memory 200 Series for HPE

I/O flexibility

- Balanced I/O for extreme performance
  - Up to 32 PCIe 3.0 cards with choice of 16-slot (all low profile) or 12-slot (FH/FW)
  - 16-slot: each CPU has support for two x8 and two x16 PCIe cards
  - 12-slot: each CPU has support for one x16 PCIe slot and one 300w GPU
- Up to 20 SAS/SATA/NVMe drives with RAID & HW encryption
- Up to 8 NVidia Quadro GPUs or up to 16 Tesla GPUs; support for Intel SDVis
- 1/10/25 Gbe, 16/32Gb FC, IB EDR/Ethernet 100 GB, IB HDR
- SAS, Multi-Rail LNet for Lustre; NVMe SSD
- MPI, OpenMP

Extreme Superdome RAS

- Advanced memory resiliency, Firmware First, analysis engine, self-healing
- HPE Serviceguard for Linux
- Enhanced security with silicon root of trust and TPM 2.0

Simplified User Experience

- Simplified management GUI
- HPE OneView, OpenStack, Redfish API
- Optional HPE GreenLake consumption model
- HPE Datacenter Care, HPE Proactive Care