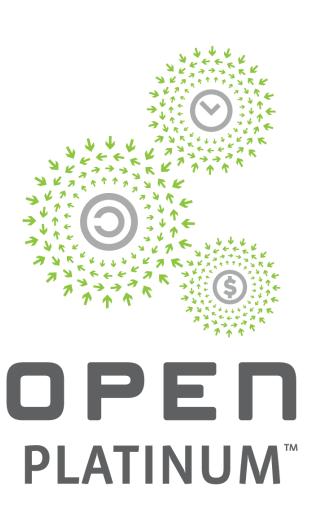
Open. Together. OCP カナナナスト

Inspur Optimized Architecture for AI in OCP

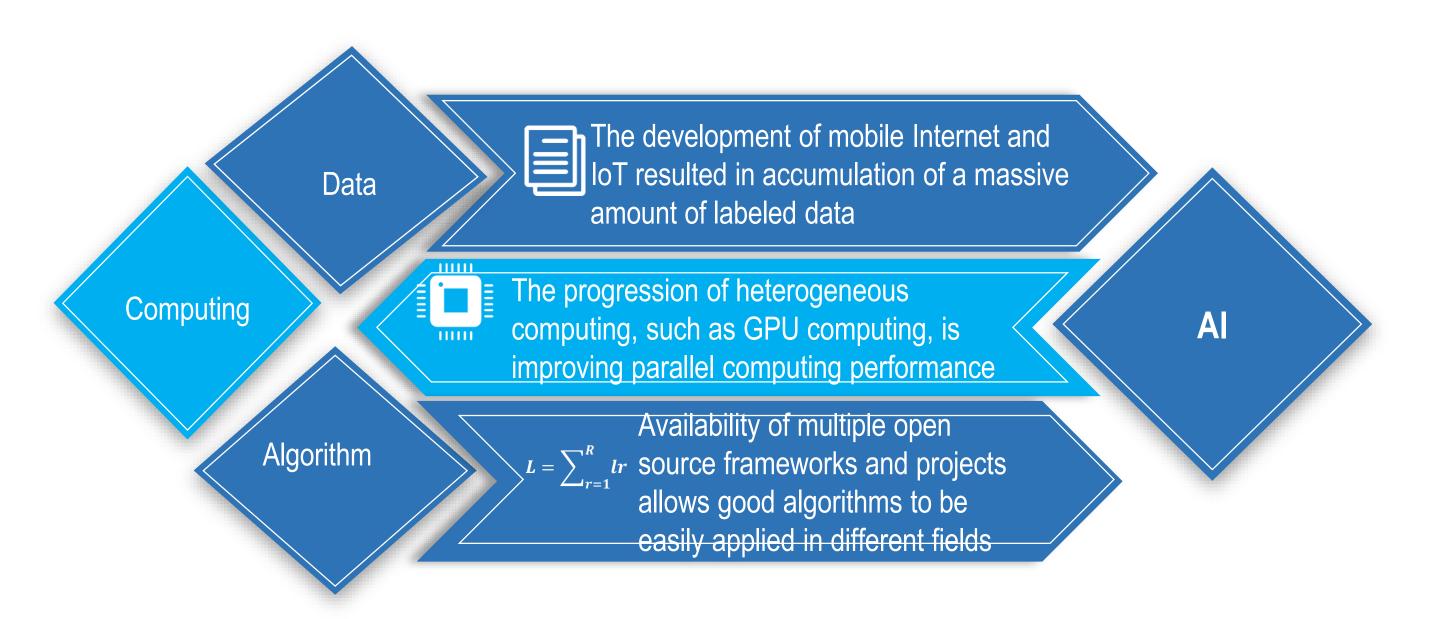
[Gavin Wang & Han Wang, System Engineer, Inspur]







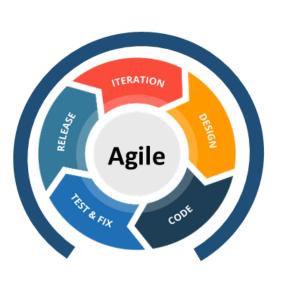
What Led to the Rapid Growth of Al Industry













Open

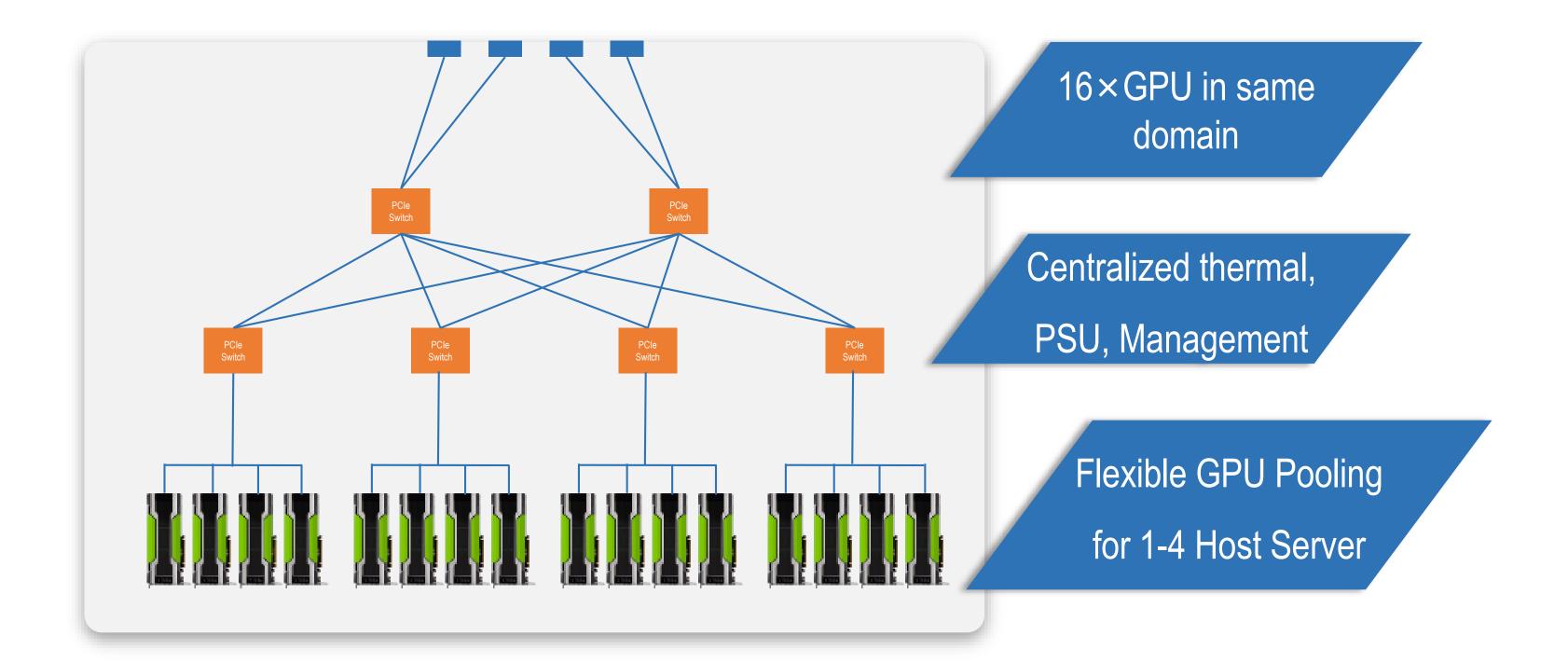
Converge

Agile

Ecosystem

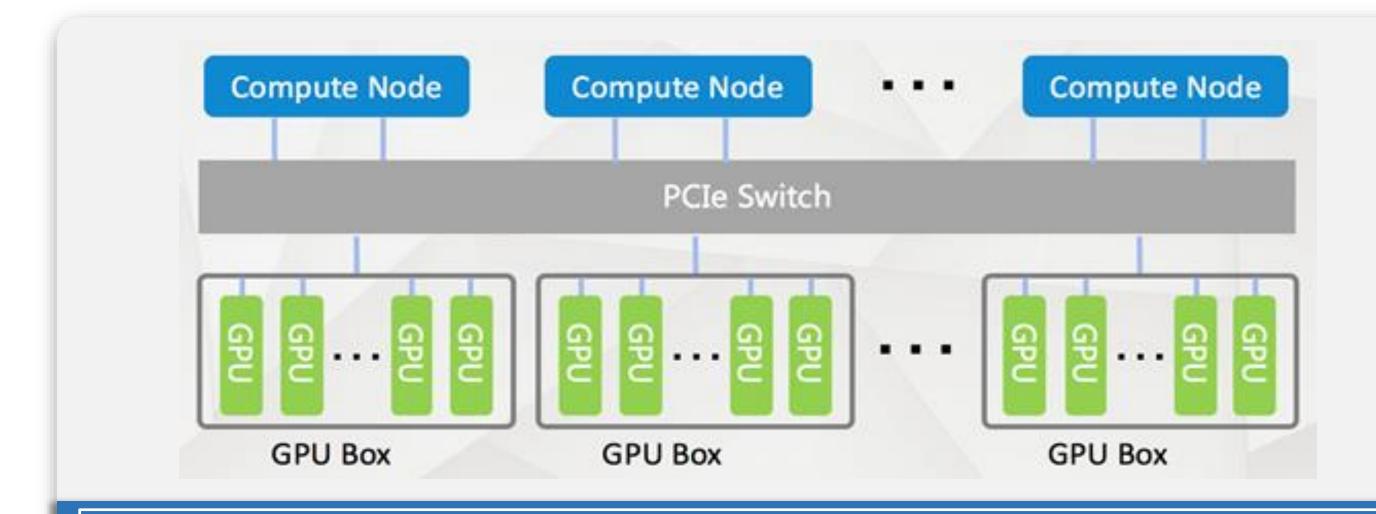


16 GPU Ecosystem





Heterogeneous Pooling



Advantages of Heterogeneous Pooling:

- Communication between GPUs only depends on PCI-e, the latency can be reduced 50%+
- GPU expansion does not need to synchronize high-value IT resources (e.g. IB Switch), the cost can be optimized 5% +
- More GPUs can be supported, deployment density can be increased by 4 times





Inspur 16 GPU Product Info



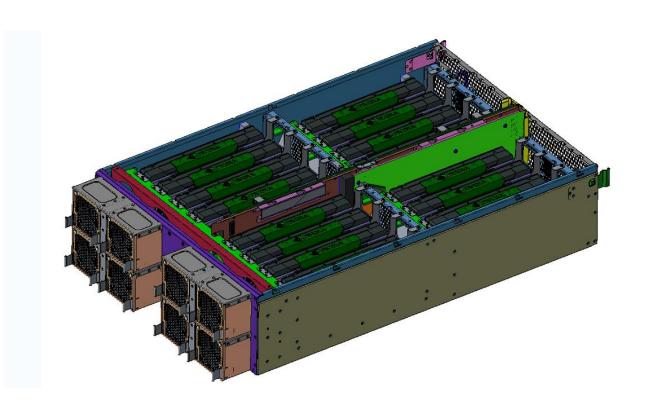
HPC

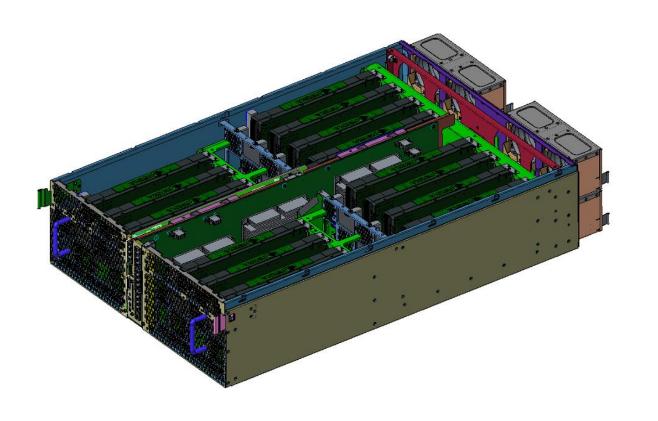
Ultral High Density GPU

- 40U 16*GPU for training or 16*FPGA for inference
- Improve efficiency of system's computation expansion

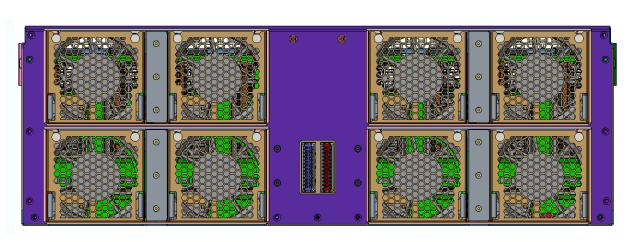
Optimized Architecture for Al

- Speed up the training process
- Flexible architecture to support multi-node based on application

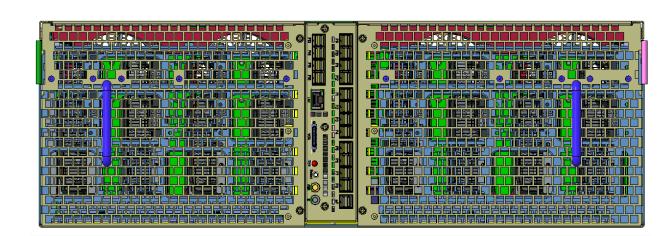




System rear view

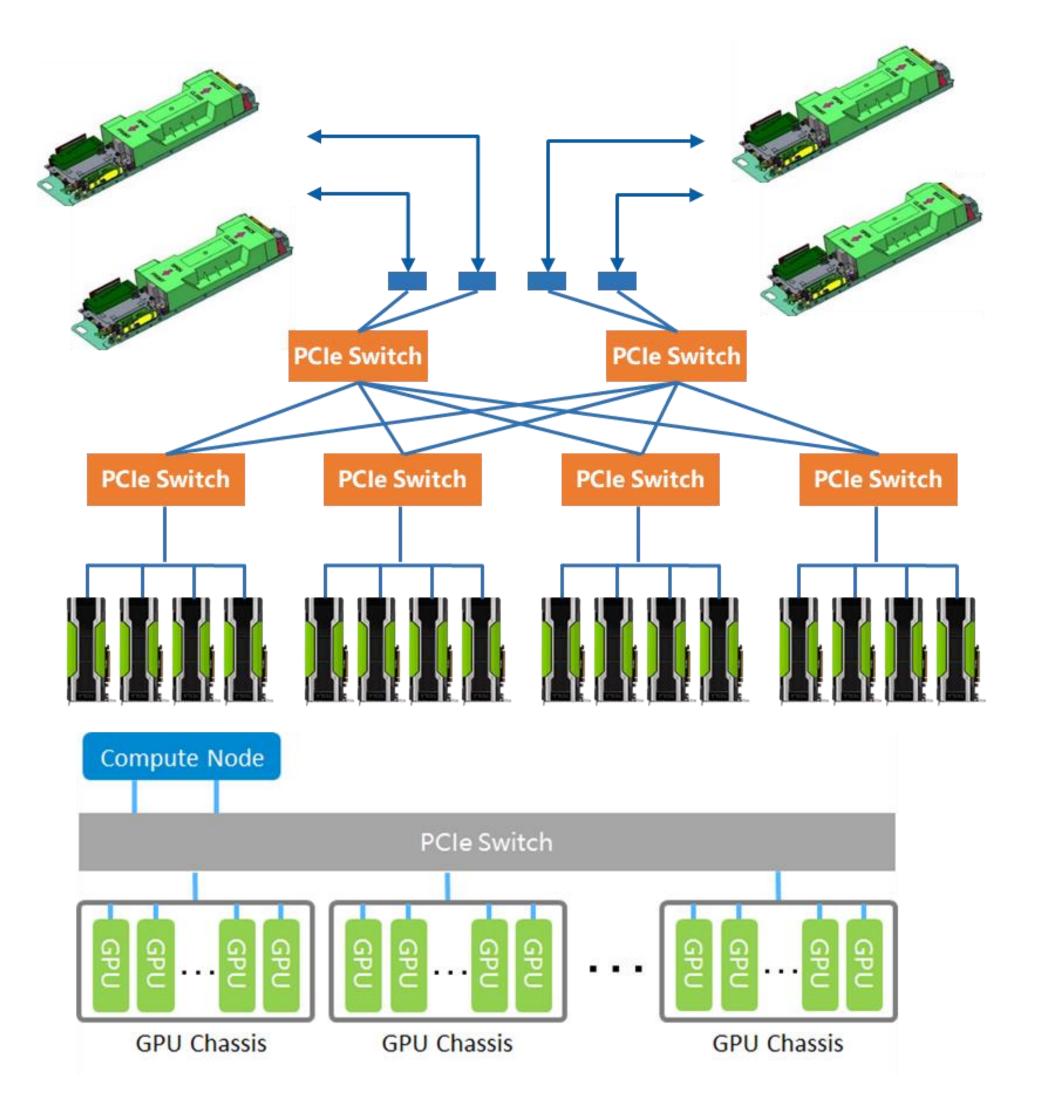


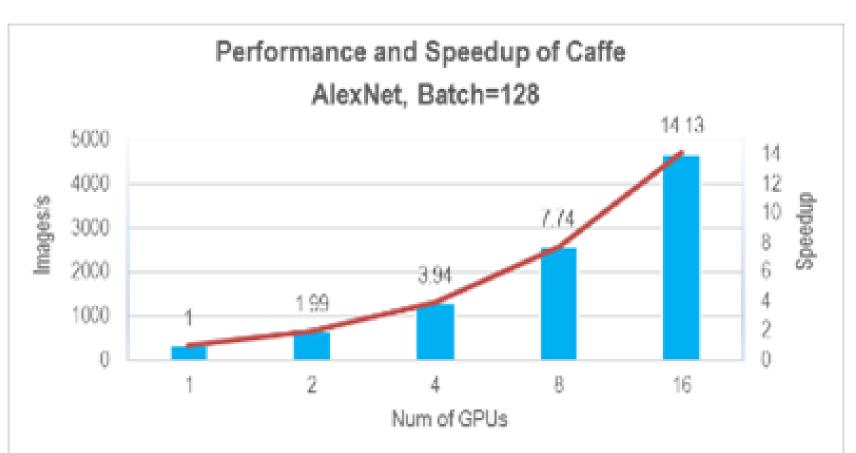
System front view



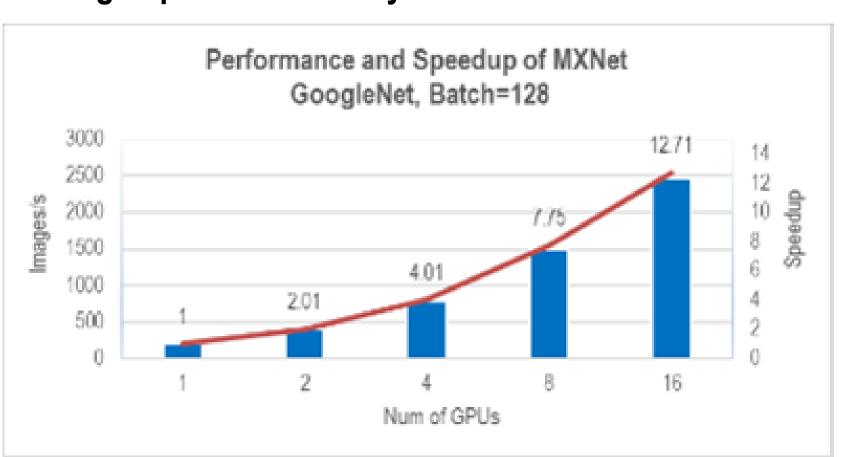


Inspur 16 GPU Product Info





high-speed/low-latency P2P GPU access needed



transfers gradients using GPU P2P



HPC

