



Muskhelishvili Institute
of Computational Mathematics



High Performance Computing Platform Specs

For ML/DL Experiments



Hardware Node Specs



HPE Proliant DL 385 Gen10 V2 plus Server

CPU: 1 x 64 Core 2ghz AMD EPYC (7713)

RAM: 128GB DDR4 -3200 Registered

HDD: 6 x 1.2TB SAS 10K

SSD: 2 x 480 GB SATA SAS



Nvidia Tesla A100 Computational Accelerator

CUDA Cores: 6912

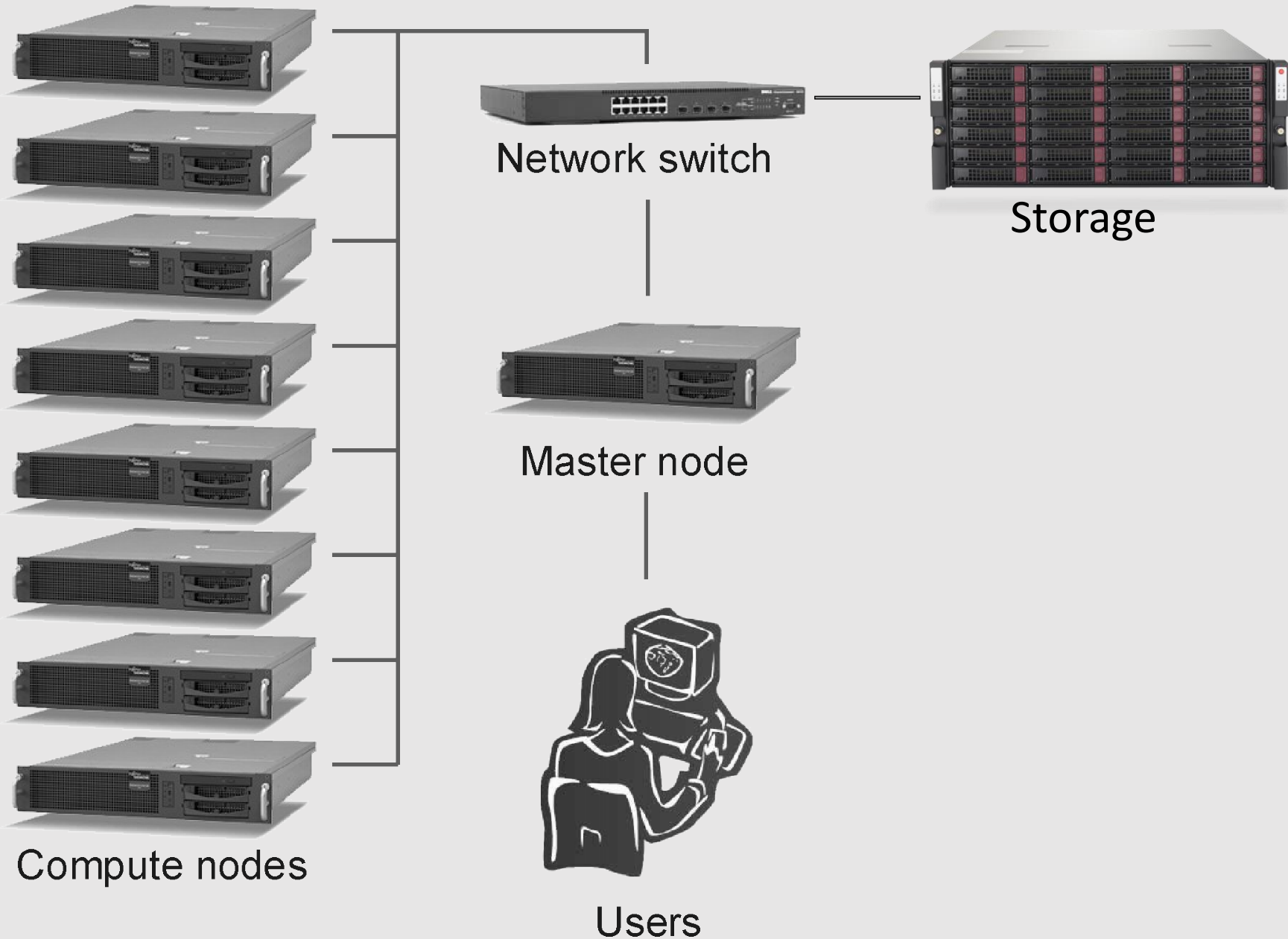
Tensor Cores: 432

Internal Memory: 40 GB (HBM2e)

Performance: 9.7 TFLOPS (FP64)

19.5 TFLOPS (FP64 Tensor Core)

Plans for HPC Expansion

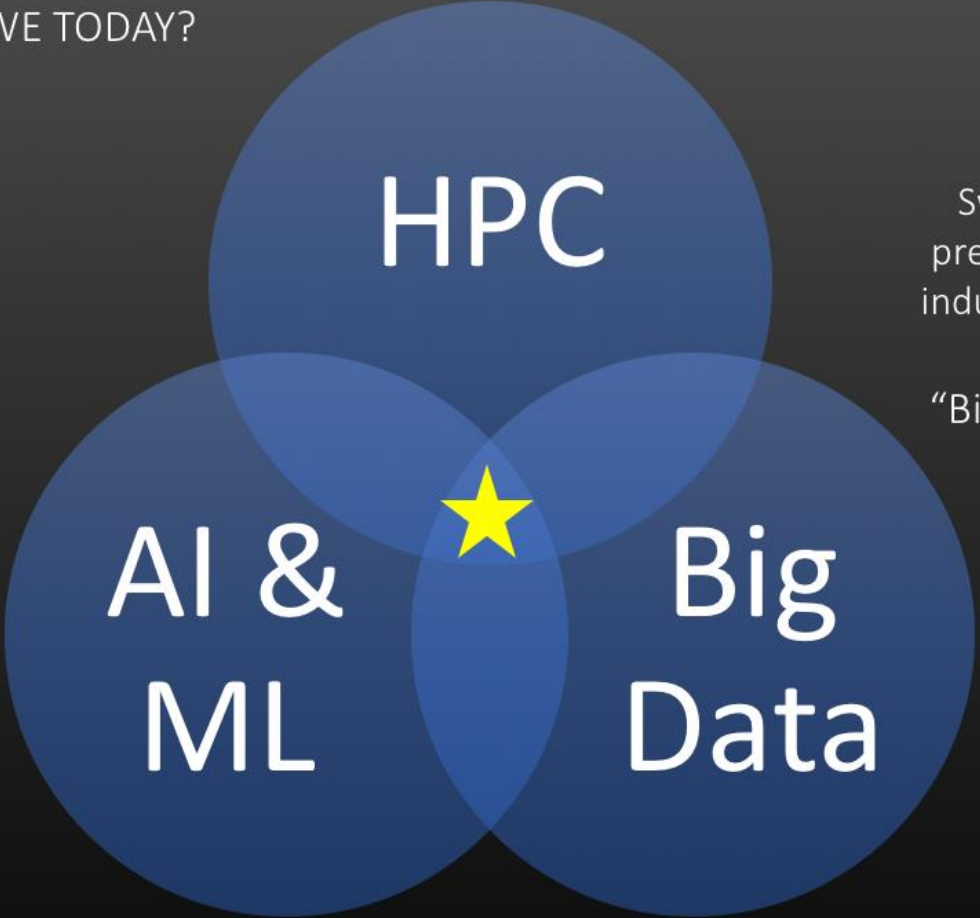




HPC + Big Data + AI = Industry 4.0



WHERE ARE WE TODAY?



Sweet spot that precipitates the 4th industrial revolution

“Big Technology”

Where technologies meet new dimensions of innovation open up, which previously belonged to the realm of science fiction.



HPC for Students and Researchers



- Parallel Programming;
- AI (ML/DL)
- Big Data
- Simulations



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Thank You