

SPORC - Overview

- [RC Dashboards](#)
- SPORC cluster: (Scheduled Processing On Research Computing)
 - 2304 cores (Intel(R) Xeon(R) Gold 6150 CPU @ 2.70GHz)
 - Linpack benchmark, cpu-only: 105 TFLOPS
 - 24TB RAM
 - 100 Gbit/sec RoCEv2 interconnect (Mellanox MLX5/Juniper QFX5210-64c)
 - 64 SuperMicro X11 systems with space for 4 GPU cards
 - 16 Nvidia V100 cards
 - 32GB HBM2
 - 14 TFLOPS single-precision
 - 7 TFLOPS double-precision
 - 56 TOPS Int8
 - 112 TensorFLOPS
 - 96 Nvidia P4 cards
 - 8GB GDDR5
 - 5.5 TFLOPS single-precision
 - 22 TOPS Int8
- Ceph (block and filesystem) storage
 - 7.5PB of storage comprised of
 - 200G NVMe hot tier
 - 3.6PB 7200RPM SAS bulk tier
 - 3.5PB 7200RPM SATA cold tier
 - 288G 7200RPM SATA nearline backup tier
 - 15TB Intel(R) Optane(R) NVMe CephFS metadata tier
 - Dual 100 Gbit/sec RoCEv2 interconnect (Mellanox MLX5/Juniper QFX5210-64c)
- Large single-system-image compute node (theocho):
 - SYS-7089P Supermicro 8-way
 - 192 cores (Intel(R) Xeon(R) Platinum 8168 CPU @ 2.70GHz)
 - Linpack benchmark, cpu-only: 4 TFLOPS
 - 3.06 TB RAM
 - 1 Nvidia V100 card
- Operating system:
 - Red Hat Enterprise 7