

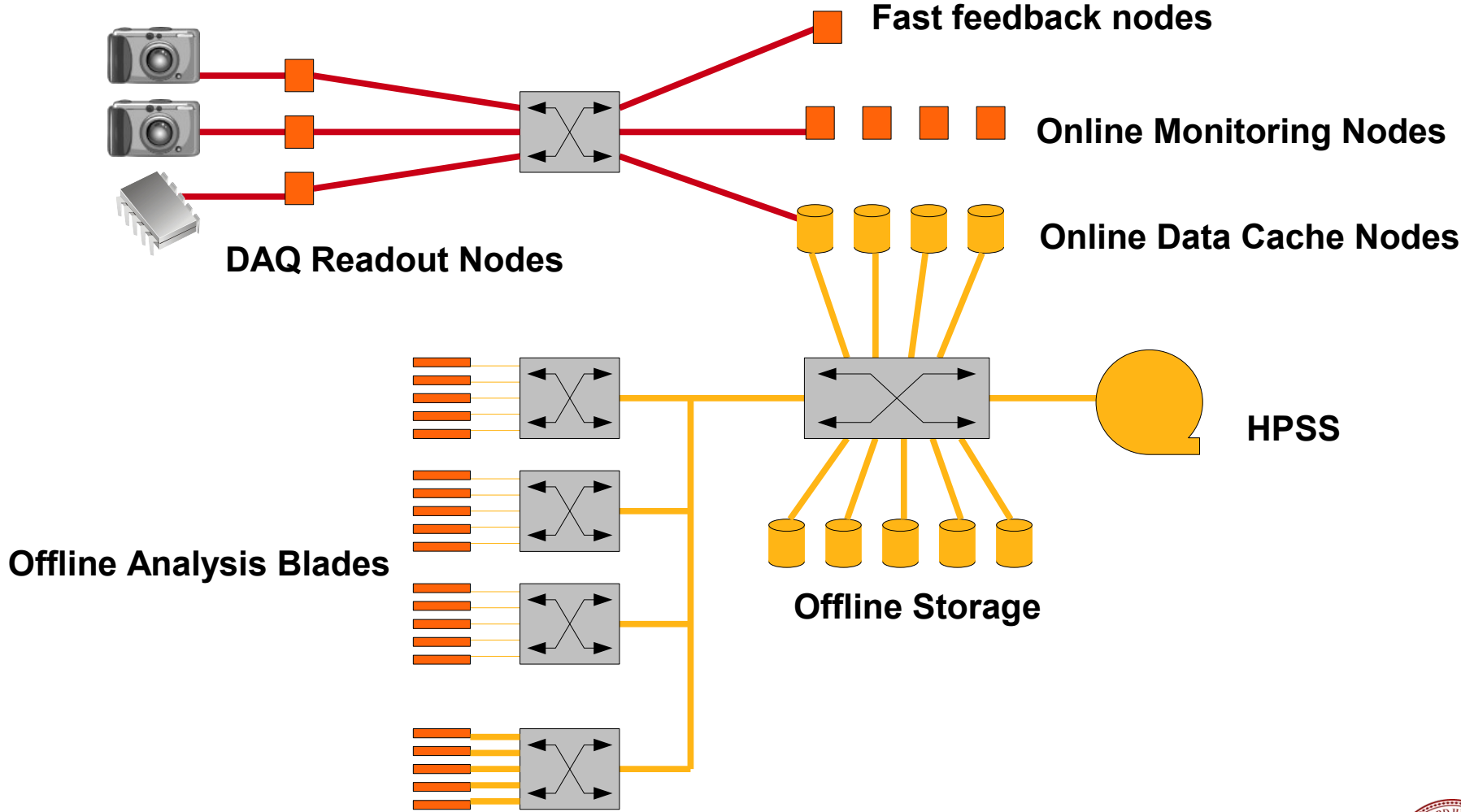
LCLS Storage and Processing Systems

SLAC Scientific Computing Workshop

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LCLS Data Networks



Processing



- 3 Twin Blades chassis (Supermicro)
 - Very high density (2.8 servers per rack unit)
 - 720 Xeon X5675 3GHz cores
 - One Ethernet and one QDR Infiniband switch per chassis



- 2 ATCA Blades chassis (DTI)
 - 192 Opteron 2.7GHz cores
 - Two 10GE switches per chassis



Storage

- **Online cache: 80TB per instrument**
 - 4U servers with 24 local disks
- **Two 1PB SA9900 systems from DDN in NEH exp area**
 - 1200 2TB SATA disks
 - 60 disks per 4U enclosure
 - Lustre file system
- **Adding two 1PB systems in FEH**
 - Same disk enclosures as DDN system, but:
 - Use PCIe RAID controller
 - Use 2TB SAS disks

