

JUST: CENTRAL STORAGE

TIERED STORAGE SOLUTION



JUST - JUelich Storage cluster

- One central storage infrastructure for HPC
- Total gross capacity
 - NVMe disks: ~ 200 TB
 - Spinning disks: ~ 210 PB
 - Tape: ~ 480 PB
- Software:
 - IBM Storage Scale
 - GPFS Native RAID
 - IBM Storage Protect

Capacity

Bandwith

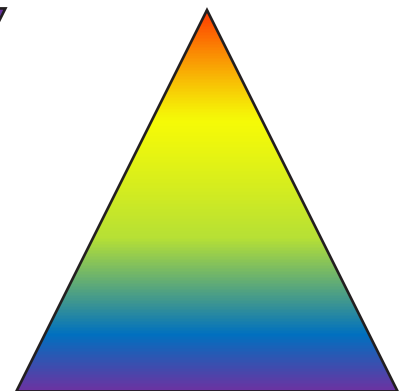
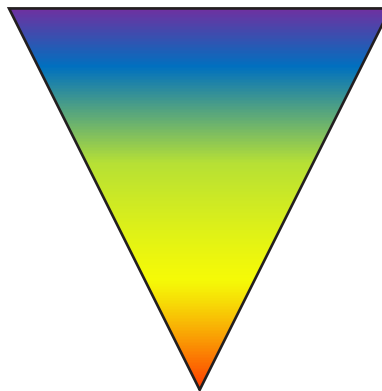
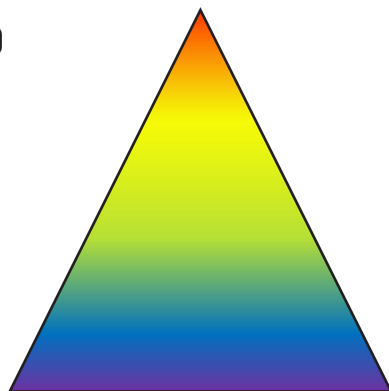
Retention time

SCRATCH (LCST)

DATA (LCST)

XCST

ARCHIVE



Large Capacity Storage Tier (LCST)

- 11x IBM SSS6000
- 1x IBM ESS3500
- Bandwidth optimized
- SCRATCH: Temporary compute data
- HOME: Users personal data
- PROJECT: Shared project data
- DATA: Persistent compute data

Extended Capacity Storage Tier (XCST)

- Capacity focused - disk based
- Store & Share for Communities

Archive

- Hierarchical Storage Management
- ~ 45 PB stored on Tape