

Highlights

- ZFS on Linux works reliable and as good as on Solaris
- Huge performance increase with ZFS observed compared to xfs/ext4
 - Especially for parallel read/write access
- Real data protection by using block level checksums
- Compression can be used with WLCG data on typical storage systems and without performance reduction
- Large reductions in rebuild times of degraded systems possible
- Possibility to build systems with 3 redundancy disks (raidz3, similar to raid7)
 - important with increasing disk sizes that make raid6 unusable

Highlights

- Cost reductions possible
 - No need for hardware raid controllers
 - Systems build on ZFS can be upgraded by software updates and not through expensive hardware controllers
 - Compression saves disk space
 - Using raidz3 instead of multiple raid6 uses less disks for redundancy and hot spares in total but increases overall data protection