

Tape Storage Futures at Sandia



PRESENTED BY

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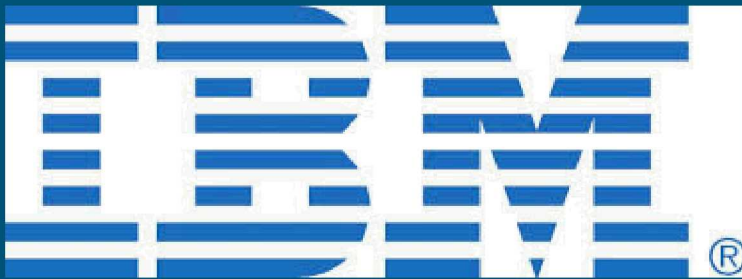
Currently.....

- Sandia supports HPSS and high speed data transfer in four different environments
- All on Oracle/Sun/StorageTek tape hardware
 - 2 SL8500s, 1 SL3000, 5 SL150s
 - T10k-C and D drives, LTO6 drives
 - ACSLS (tape robotics control) and STA (tape analytics) systems
- Maintenance costs on hardware and associated systems continue to go up
- Parts harder and harder to come by

Future Considerations/Requirements

- Increase overall capacity
- Refresh technology
- Reduce maintenance costs
- Reduce footprint
 - Floorspace
 - Number of systems
- Consistency across environments

Only two.....



So, what to do?

- Obtaining loaner/test systems
 - IBM TS4500
 - Spectra Tfinity
- Typical performance/reliability tests
- Compatibility with current environment
- Analytics, analytics, analytics
- Maintenance processes/procedures
- Discussions with counterparts at other labs

- Choose a maintenance model we prefer
 - More “self” maintenance vs.
 - Traditional direct vendor maintenance
- Simplification and consistency
 - LTO only - across all environments (option to add enterprise at a later date)
 - Single library interface
- Elimination of external library systems (ACSLs, analytics)
- Bonus possibility: Spectra provides option to use Oracle T10k drives and tapes (read only) within the Tfinity library

