

Data Management Today & Tomorrow

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Last Year's Data Management Predictions



- More storage subsystems for different workloads (simulation, analytics, AI)
- More object storage
- More tiering: much more use of NVMe for fast access
- POSIX relaxation
- NVMeoF with CXL makes this even more powerful
- Data lakehouses — bring compute to the data, composable data systems
- Hybrid on-prem/multi-cloud storage

Data Management Landscape & Horizon



- What HPCers still want are **parallel file systems**! But must be
 - **Reliable!**
 - **Performant!**
 - Easy to manage
 - Easy to deploy
- Hyperscalers are driving tech, and object storage is growing fast
- So, near-term future is (still) **parallel file systems**, object storage, and hybrid (parallel file systems on top of object storage)
 - Data lakehouses (best of data lakes and data warehouses?) growing
 - Graphics databases still look promising for AI, growing