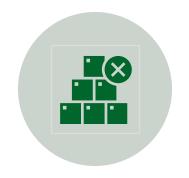


CY2025 Suboptimal Start Impacted By







HARDWARE FAILURES



FREQUENT AND LONG FAILOVER EVENTS



LUSTRE "STUCK THREADS" BUG



Solutions

High Performance Tier Usage and Mis-striped Data

- Aggressive Re-striping
- Manual Striping
- Polimor Purge Agent

Hardware Failures

- Tighter vendor engagement
- Changes to preemptive disk health scans

Frequent and Long Failover Events

- Pacemaker pool import change
- Drastic reduction in failover time

Lustre "Stuck Threads" Bug

- Outage to upgrade Lustre version
- Stacktrace(s) identified no longer present

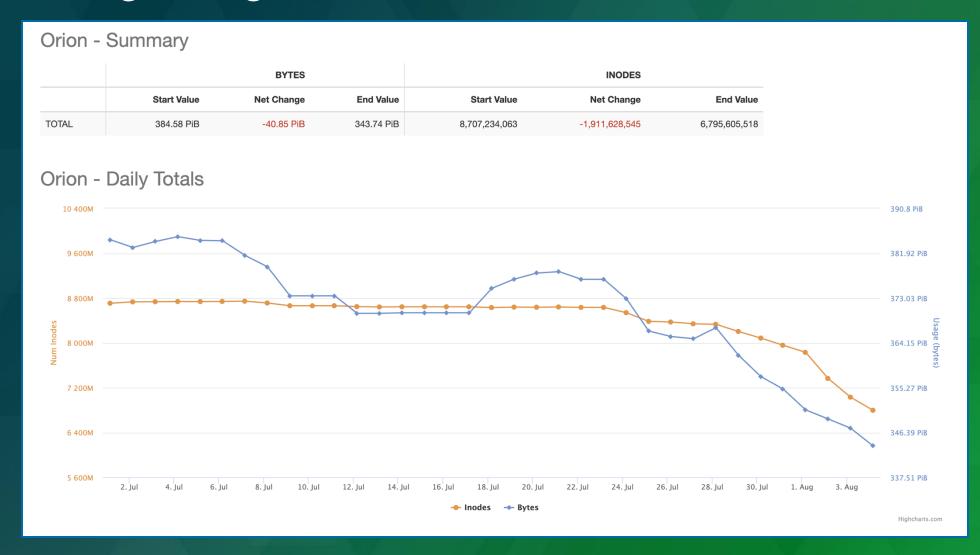


Polimor

File system policy engine effort developed internally, providing utilities like scalable purge Staff effort from Rick Mohr, Chris Brumgard, Anjus George and Ketan Maheshwari, among others



Polimor Purge Progress





Future Improvements

Collaborating with UA to create a user dashboard for Orion that gives more insight into filesystem status

Experiment with setting project or code based custom PFLs to achieve better IO performance





Feel free to reach out to frenzaej@ornl.gov



