

# Update on the Xyratex Acquisition of Lustre®

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xyratex.

# Xyratex Acquisition of Lustre Assets

- On February 20, 2013, Xyratex acquired the Lustre Assets from Oracle Corporation
- The Lustre Assets include
  - Lustre registered trademark
  - lustre.org domain
  - The intellectual property of all Lustre source code from the project's inception in 1999 to Lustre 2.0
  - The development and support tool chain (automated build and test software, etc.)
  - Community assets (lustre.org wiki, Bugzilla, Mailing lists, etc.)
- All of Oracle's active Lustre support contract

# About Xyratex

- Largest worldwide OEM Disk Storage System provider\*
  - ~19% of worldwide external storage capacity shipped in 2011
  - > 4.1 Exabytes of storage shipped in 2011
  - Shipped our 1 Millionth Enclosure in 2011
- ~ 50% of WW disk drives are produced utilizing Xyratex Technology
- Over 2000 employees worldwide
- Over 25 years of storage & networking R&D experience & innovation

\*Source: Internal analysis, IDC, December 2011; Coughlin Associates, 2010

# ClusterStor



- Integrated Lustre Storage Solution
- Engineered for High Performance Computing
- Revolutionary 'scale -out' storage architecture
- The Best
  - Performance and scale-out
  - Reliability and serviceability
  - Easy of management and deployment
  - Consolidation and density
  - Efficiency per kWh



# Xyratex is Committed to Lustre

## Xyratex Roles in the Lustre Community

### OpenSFS Board Member & EOFS Member

*Direct funding for Lustre roadmap development*

### Contributor to Lustre Source & Roadmap

*World class Lustre development team*

### Integration of Lustre into ClusterStor™

*Industry-leading HPC storage solutions*

### Lustre Support Services

*ClusterStor, Lustre and 3<sup>rd</sup> party hardware*

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# Why?

- Reinforce Xyratex's commitment to the Lustre project
- Provide the broader HPC community with increased confidence of an enduring Lustre
- Liberate highly visible community resources that were otherwise going stale
- Augment our tool set for developing and supporting Lustre
- Build relationships with Oracle customers who rely on Lustre

# What Happens Next?

- Discussions underway with Lustre community groups
- lustre.org strategy
  - Seeking input from a wide cross-section of the community
  - Does the community benefit from a general Lustre “brand”
  - How shall we revitalize lustre.org?
- Documentation update strategy
  - Lustre Operations Manual
  - lustre.org wiki
- Trademark protection
  - A vital community asset that Xyratex will defend

# What About the Copyright?

- Lustre development forges on in the community canonical release
- The modern Lustre represents an intentional melange of copyright contributions on top of Oracle's original IP
- Not clear that anything needs to change
  - Keep doing what we're doing for the foreseeable future
- What about the future?
  - We don't know
  - But we've made more tractable the potential for a homogenous body of Lustre intellectual property should the community need it



# Summary

- The Lustre trademark and all of the intellectual property assets are back in the HPC Storage community
- There are virtually no impacts to the productive development underway in the community or how the OpenSFS-endorsed canonical source tree is managed
- Xyratex is committed to Lustre for the long haul
- We reassure the storage industry in general that Lustre is here to stay

**Long Live Lustre!**