Update on the Xyratex Acquisition of Lustre®

IDC HPC User Forum -- Tucson, Arizona
April 30, 2013
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
  - East 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 3rd party hardware
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!