

HPC Software Workshop Open Storage Track, Regensburg 2009

Dan Ferber Sun Microsystems



- Lustre Community Program
- Program Tasks and Status
- Next Steps
- Q&A



Lustre Community Program

- Promote growth of Lustre features, performance, quality, and stability vis-a-vis community collaboration, which allows greater productivity for Lustre users
 - > Feature and fix contributions
 - > Testing, bug finding, and use cases
 - > Enhanced documentation
 - > Best practices
 - Increased Lustre knowledge in community
 - > Technical discussions
 - > Awareness of roadmap and plans
 - > Feedback



Lustre Community Program Tasks

- Technical information collaborations
 - PRACE and Juropa2 Juelich kDMU
 - Oak Ridge Lustre Center of Excellence Workshops
 - > CEA HSM
 - > DARPA HPCS
 - NRL changelogs, replication, and WAN
 - > Annual Lustre User Group each Spring in United States
 - Continued Autumn Workshops in Europe
 - ISC and Supercomputing
 - > Lustre-discuss and lustre-devel



Lustre Community Program Tasks

- Lustre Knowledge Sheila.Barthel@Sun.com
 - > Lustre operations manual
 - > ORNL/Sun Lustre internals manual
 - Lustre architecture documents and presentations
 - > Lustre Quick Start Guide
- Other Lustre Community Resources
 - > ORNL LCE workshop slides and papers
 - Lustre User Group Slides and Videos
 - > Bugzilla, and Lustre downloads
 - > Searchable lustre-discuss archive
 - Lustre Quick Start and Lustre Storage Server Blueprints
 - > Lustre technical papers



lustre.org Community

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High Performance and Scalability

For the world's largest and most complex computing environments, the Lustre™ file system redefines high performance, scaling to tens of thousands of nodes and petabytes of storage with groundbreaking I/O and metadata throughput.

More on Lustre performance, service, and support at sun.com/lustre 📮

September HPC Software Workshop in Germany is Full ...

The Lustre Advanced Seminar and Open Storage Workshop in Regensburg, Germany this September 7-10 is at capacity. Slides from presentations will be posted after the event. Please consider joining the Sun Lustre team at SC09 November 14-20 in Portland, Oregon and also at LUG 2010 April 14-16 at Monterrey Bay, California. Registration for LUG 2010 will be available in November.

Lustre 1.8.1

Lustre 1.8.1 is now available for download. Lustre 1.8.1 offers several robust, new features including Adaptive Timeouts, OSS Read Cache, OST Pools and Version-based Recovery. Read more about 1.8 features and why you should upgrade.



Download

Download this open source software for free.





Learr

Find out about Lustre interoperability, features and publications.

» Projects and Roadmap » Publications



Use

User resources to make Lustre perform at its best.

» Install and Configure
» Administer



Contribute

Developer resources and tools to contribute to Lustre.

» Code » Test » Pre-Release Versions



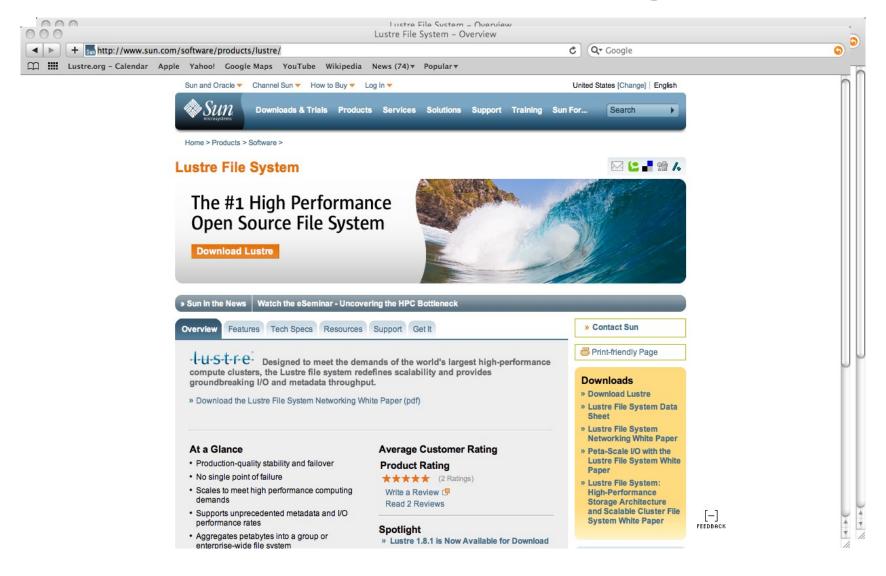
Get Involved

Find groups and community developer projects.

» Community » Lustre Centers of Excellence

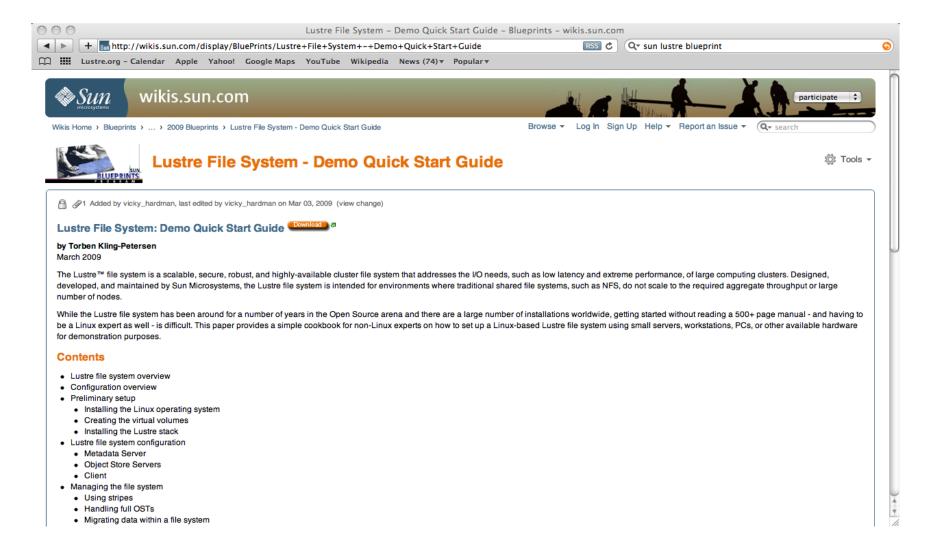


sun.com/lustre Community



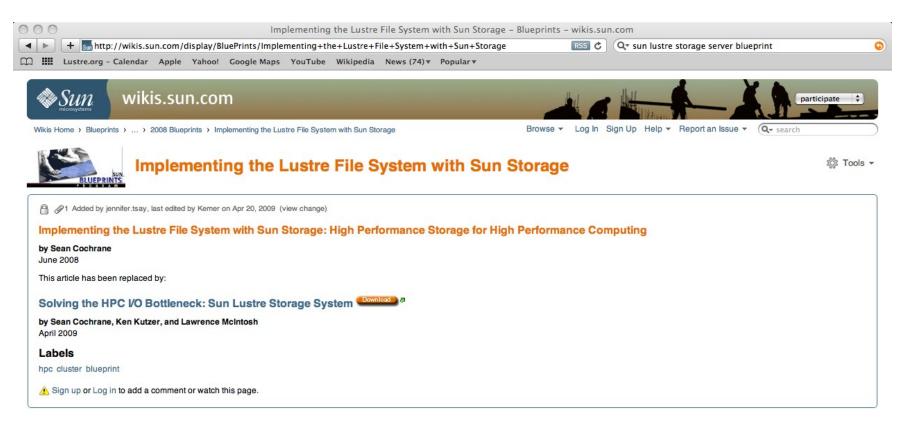


http://wikis.sun.com/display/BluePrints/Main Community





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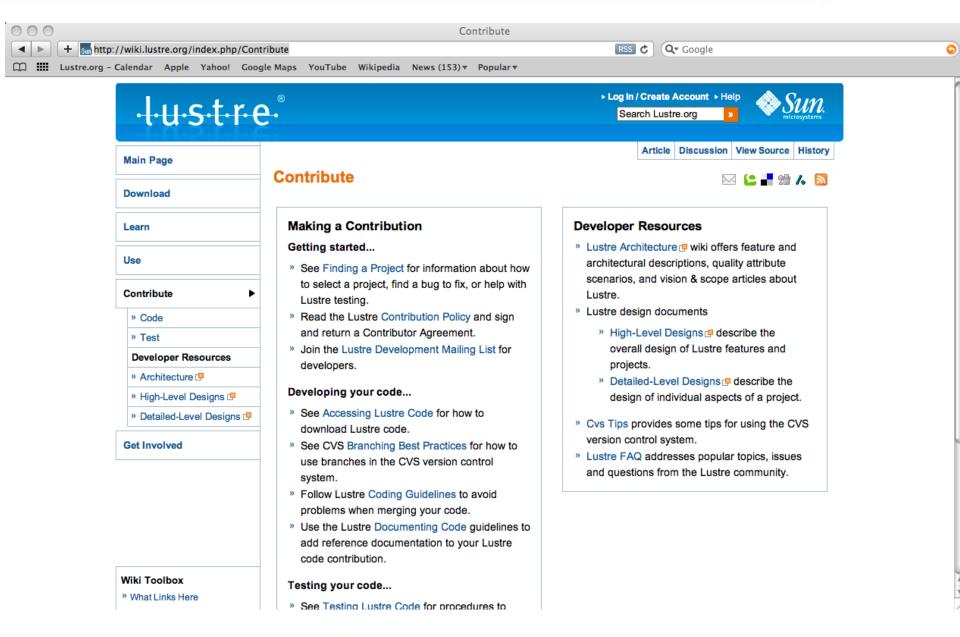
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Contributing Code to Lustre











ORNL/TM-2009/117

ORNL and Sun Internals Manual Collaboration

See: wiki.lustre.org and then click Lustre Centers of Excellence

Understanding Lustre Filesystem Internals

April 2009

Prepared by

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Next Steps

- Keep improving the Lustre internals manual
- Have people use the new "Contributing Code" page
- Operations and programming best practices pages
- Continue dialogues on lustre-discuss and lustre-devel
- Community testing of Lustre 2.0 alpha code drops
- SC09 Lustre/kDMU BOF and Snowbird Presentation
- LUG 2010 April 14-16 in Monterrey, California
- Another European Open Storage workshop track with more customer presentations next time
- What else?



Call to Action: Lustre 2.0 Testing

- Intermediate Release Milestones Until GA
 - > New builds every 4-6 weeks
 - > Builds will be available for download via FTP
 - > Release milestone criteria and test results will be published on lustre.org
- We need ample community testing and feedback
 - > Please install, test and provide feedback
 - Post defects in Bugzilla and comments/suggestions to lustre-discuss
 - We are recruiting beta test sites talk to Jessica.Popp@Sun.com



Thank You

Questions and Suggestions