

Open SFS Community Development Working Group

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OpenSFS Organization

Members:

- Promoters
- Adopters
- Supporters

Nonmembers:
Participants
Contributors
Consultants

Board of Directors:

- 1 per Promoter membership
- 1 elected by Adopters & Supporters

Officers:

- President
- Secretary
- Treasurer

Technical Working
Group

Community
Development
Working Group

Wide Area File
system Working
Group

Other Working Groups
(as necessary)

Community Development Working Group

▶ Goals:

- Facilitate discussion and draft a community development model for Lustre, taking into consideration the needs/concerns of Lustre vendors.
- Deliver short and long term goals to the Board of Directors for Community Development of Lustre.
- Ensure proper execution of community involvement in Lustre; creating an open forum for community discussion.
- Advise the Board of Directors on the community's goals and perspective on Lustre.

Early progress

- ▶ We acknowledged that any sort of community development model would not be ready in time for Lustre v2.2 and possibly not even v2.3.
- ▶ A singular concern within the community was that the Lustre infrastructure (e.g. code repository, bug tracking/history, etc) not be solely held by one vendor.
- ▶ Interim solution
 - OpenSFS is hosting an independent backup of the Lustre source tree and bug tracking database and archiving it so if the worst case ever happens Lustre can still move forward without an interruption of service. (Courtesy of Indiana University)

OpenSFS CDWG proposal for a model for community development of Lustre has broad support

Model Activities

- Gatekeeping
- Testing
- Release Management
- Administration
- Documentation
- Dedicated testing equipment

Approach

- Ensure a quality process
- Engage respected experts
- Contribute resources and funding
- Assure an open process that encourages broad participation and maintains vendor neutrality
- Guarantee a consistent level of support over a long time period

Budget and next steps

Costs*

- Gatekeeping (1 – 2 FTEs)
- Testers (3 – 4 FTEs)
- Release Manager (1 FTE)
- Admin support (.5 FTE)
- Documentation (.25 FTE)
- Dedicated testing equipment (~150K / year)
 - Tech refresh, power, space, cooling
- Total costs can approach \$3M US/year

Path forward

- Determine the amount which OpenSFS is willing to contribute toward offsetting the \$3M cost
- Let a contract for Lustre Development Community Tree Maintenance
- Empower the community development working group to tackle the testing issue
- Start immediately

* *OpenSFS Community Development Working Group paper*

Community Tree Maintenance Contract

- ▶ This contract is about managing the branch, landings, and diagnosis/fixing of latent bugs unrelated to feature landings.
- ▶ The vendor will provide the gatekeeping and release management for Lustre feature releases in a manner that fosters community contribution to the releases.

High level release process

- ▶ Initial release planning
 - Includes meeting with developers who have proposed features to review release readiness as per feature landing guidelines
- ▶ Feature landing period
 - Gatekeeper reviews proposed features as per schedule and lands when feature landing criteria are fully met
 - Gatekeeper reviews proposed bugfix patches and lands those that meet the patch landing requirements
- ▶ Stabilization period
- ▶ Release testing
 - CDWG provides manpower/hardware resources from member organizations to facilitate the testing process
- ▶ Release logistics
 - Includes creating GA release tag

For more information,
e-mail “info@opensfs.org”