



Whamcloud

Lustre Developer Day Hackathon Project Ideas

LUG'24 Lubbock, Texas



ddn

Work on Small Projects with Other Lustre Developers

- ▶ Start and/or finish some small Lustre project(s)
 - Several options on next page, or work on your own
- ▶ Good opportunity for new developers to meet veterans
- ▶ Knowledgeable developers available for questions
 - Quick turn-around for questions and problem solving
- ▶ Tips for effective use of Git, Gerrit, Autotest, Maloo
 - Sidebar for those of you interested

Useful Lustre Development Links

- ▶ General development overview <https://wiki.lustre.org/Development>
- ▶ JIRA issue tracking system <https://jira.whamcloud.com/> (LU/LUDOC projects)
- ▶ Lustre Operations Manual https://wiki.lustre.org/Lustre_Manual_Changes
- ▶ How to submit patches overview https://wiki.lustre.org/Submitting_Changes
- ▶ Gerrit patch management system <https://review.whamcloud.com/> ([Details](#))
- ▶ Commit comment style https://wiki.lustre.org/Commit_Comments
- ▶ Lustre coding style https://wiki.lustre.org/Lustre_Coding_Style_Guidelines
- ▶ Jenkins build system <https://build.whamcloud.com/>
- ▶ Maloo test results database <https://testing.whamcloud.com/>
- ▶ Lustre mailing lists <https://www.lustre.org/ mailing-lists/>
- ▶ Lustre Slack channel using [join link](#) or use QR code on the right ->
- ▶ Autotest Test-Parameters:
<https://wiki.whamcloud.com/display/PUB/Changing+Test+Parameters+with+Gerrit+Commit+Messages>
- ▶ Presentation with tips on using Autotest, Maloo, Git, and Gerrit:
 - <https://wiki.lustre.org/images/5/5e/LUG2023-Lustre-Autotest-Maloo-Gerrit.pdf>

**Join the Lustre
Slack Channel**



Small Project Suggestions

Low Difficulty

- ▶ [LU-15837](#) add "lfs find -printf" enhancements
- ▶ [LU-16622](#) "lfs find" should accept OST range
- ▶ [LU-13720](#) "lfs mirror delete" resync file if needed
- ▶ [LU-10552](#) add "lfs find -mindepth N" option
- ▶ [LU-7495](#) add "lfs find -links [+]N" option
- ▶ [LU-14442](#) "lctl get_param '-w'" show write param
- ▶ [LU-17699](#) "lfs find" return a fraction of files
- ▶ [LU-17512](#) conditional operator for 'jobid_name'
- ▶ [LU-17648](#) save jobid of process deleting file

- ▶ [LU-4315](#) lfs and lctl man pages
- ▶ [LUDOC](#) many improvements to Lustre Manual
- ▶ Other "[easy](#)" labeled tickets in Jira

Medium Difficulty

- ▶ [LU-13335](#) name lookup for project IDs
- ▶ [LU-15504](#) add "lfs find -ls" option
- ▶ [LU-12480](#) add STATX_PROJID to Linux kernel
- ▶ [LU-16446](#) "lfs mirror" allow **set** mirror count
- ▶ [LU-17515](#) dynamic conns_per_peer tuning
- ▶ [LU-13527](#) OST FID lookup via "lfs fid2path"
- ▶ [LU-13123](#) list client NIDs with job in job_stats
- ▶ [LU-16789](#) "lfs migrate" use AIO/DIO for copy
- ▶ Other "[medium](#)" labeled tickets in Jira

Higher Difficulty

- ▶ [LU-7880](#) Performance stats in OBD_STATFS
- ▶ [LU-1941](#) FIEMAP compressed file support