Community Release Update

Lustre BOF - ISC 2018

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OpenSFS Lustre Working Group

Lustre on the Move

- Lustre Engineering team moving from Intel to Whamcloud
- Development and test infrastructure also relocating
  - Issue tracking https://jira.whamcloud.com
  - Patch reviews https://review.whamcloud.com
  - Download site http://downloads.whamcloud.com
  - Wiki https://wiki.whamcloud.com
- OpenSFS will be hosting a webinar soon to discuss
  - http://opensfs.org/press-releases/opensfs-congratulates-ddn-on-acquiring-intels-lustre-file-system-capability/

Lustre LTS Releases

- Lustre 2.10.0 went GA July 2017
  - Lustre 2.10.1 Oct 2017
  - Lustre 2.10.2 Dec 2017
  - Lustre 2.10.3 Jan 2018
- Lustre 2.10.4 went GA May 2018
  - Introduces support for RHEL 7.5 servers and clients
- LWG will decide baseline/timing of next LTS stream Q4 2018
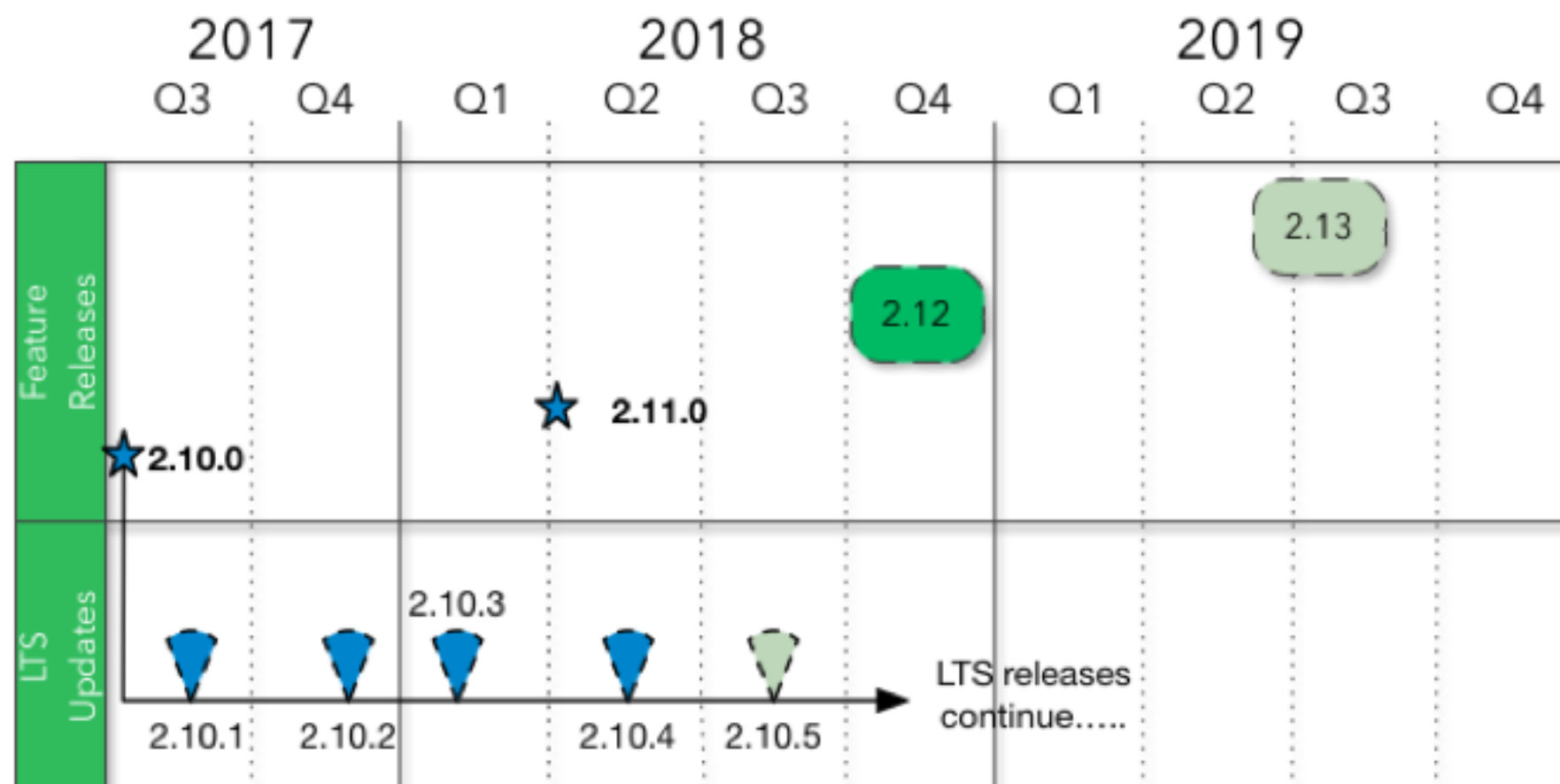
Lustre 2.11

- GA April 3rd 2018 http://wiki.lustre.org/Release_2.11.0
- Supports
  - RHEL 7.4 servers
  - RHEL 7.4 / SLES12 SP3 /Ubuntu 16.04 clients
  - Interop/upgrades from Lustre 2.10.x servers/clients
- New features included in this release
  - Data on MDT (LU-3285)
  - FLR Delayed Resync (LU-9771)
  - Lock-ahead (LU-6179)
- Enhancements to existing features
  - Lustre Audit with Changelogs (LU-9727)
  - OI Scrub for ZFS (LU-7585)

Lustre 2.12

- Targeted for October 2018 release
  - Feature cut-off end of June; Feature freeze end of July
- Will support
  - RHEL 7.5 servers/clients
  - SLES12 SP3 clients
  - Ubuntu 18.04 clients
- Interop/upgrades from latest Lustre 2.10.x and 2.11.x servers/clients
- Several features targeted for this release
  - DNE Directory Restriping (LU-4684) ONGOING
  - LNet Network Health (LU-9120) ONGOING
  - Lazy Size on MDT (LU-9538) ONGOING
- http://wiki.lustre.org/Release_2.12.0

Lustre Community Roadmap

2.10
- ZFS Snapshots
- Multi-rail LNet
- Progressive File Layouts
- Project Quotas

2.11
- Data on MDT
- FLR Delayed Resync
- Lock Ahead

2.12
- FLR Framework Advancements
- LNet Health
- DNE Dir Restriping
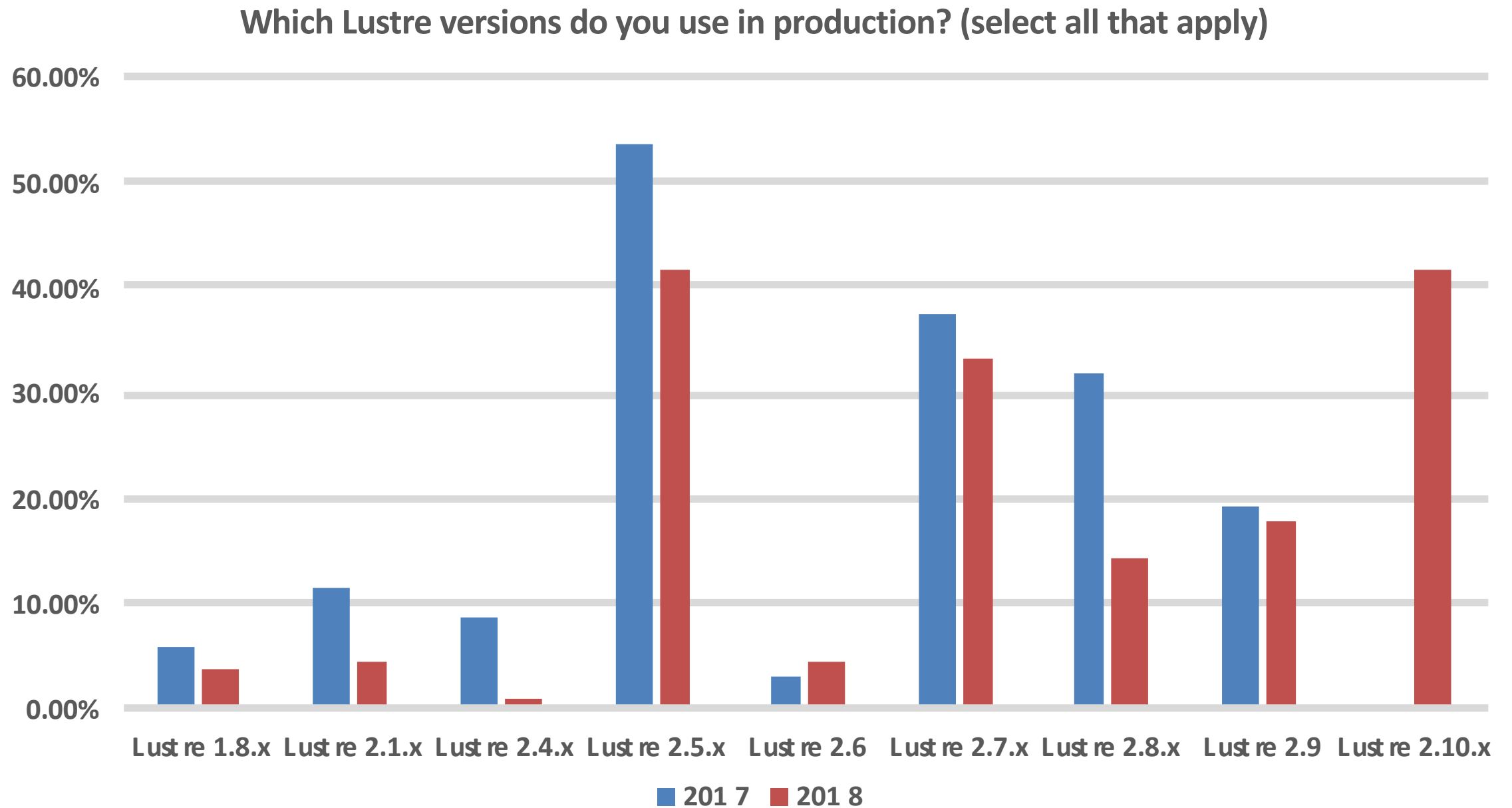
2.13
- FLR Erasure Coding
- Persistent Client Cache

* Estimates are not commitments and are provided for informational purposes only
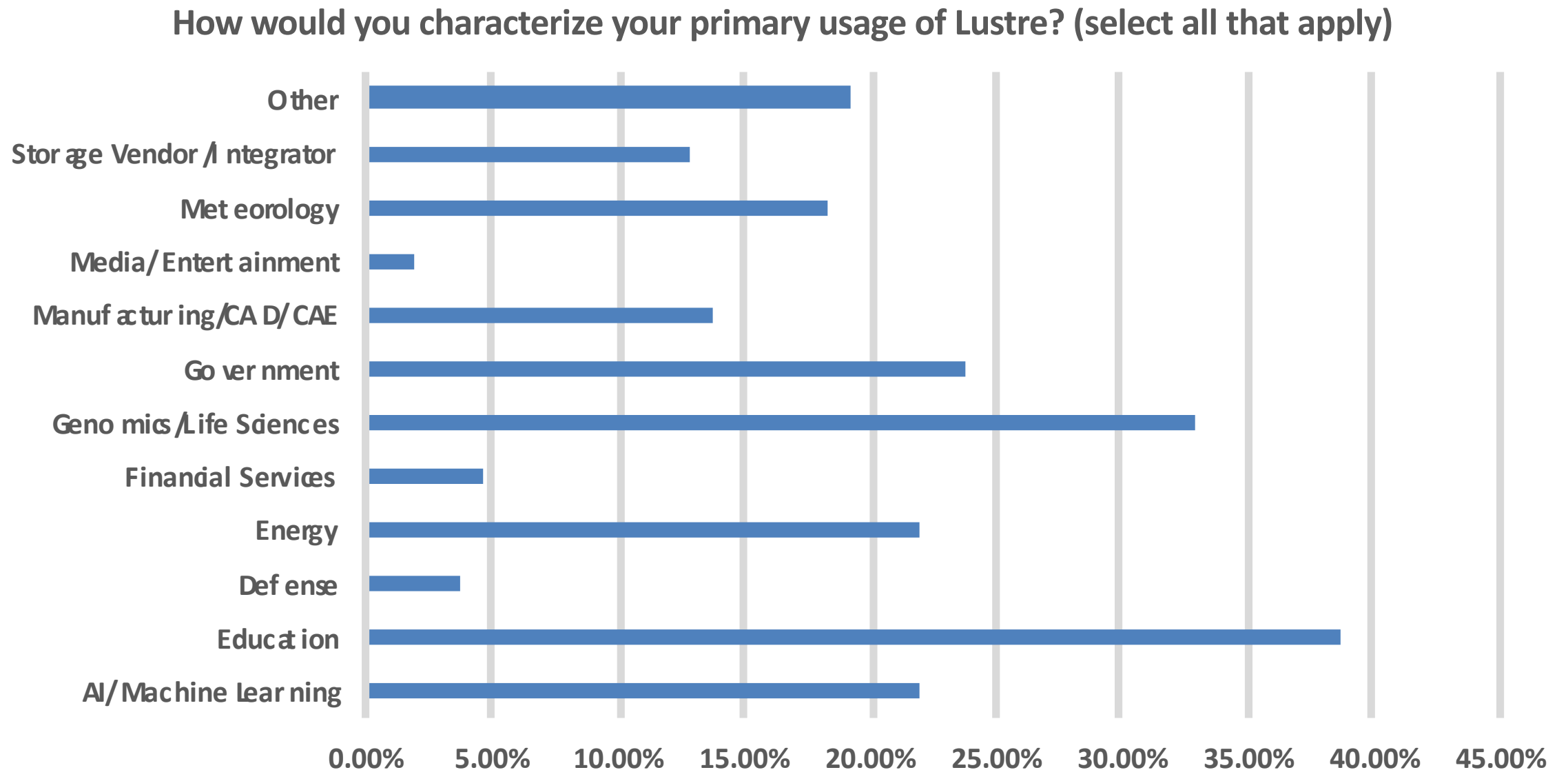* Fuller details of features in development are available at http://wiki.lustre.org/Projects

IML 4.x

- IML 4.0 GA Oct 2017; latest maintenance release 4.0.6
- https://github.com/whamcloud/integrated-manager-for-lustre/releases
- Open source releases of IML
  - Provides intuitive browser-based administration of Lustre filesystems
  - Distributed under an MIT license
  - Compatible with Lustre 2.10.x
- Possible for sites running Intel EE 2.x and 3.x to upgrade
- Some areas under consideration for future IML 4.x releases
  - Scalability
  - Modularity
  - Localization

Community Survey - Versions

Which Lustre versions do you use in production? (select all that apply)

- Lustre 2.10.x and 2.5.x most commonly-used version in production

Community Survey - Usage

How would you characterize your primary usage of Lustre? (select all that apply)

- AI/Machine Learning much higher than anticipated
- Need to refine categories based on feedback in Other

Thank you

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