Community Release Update

October 2018

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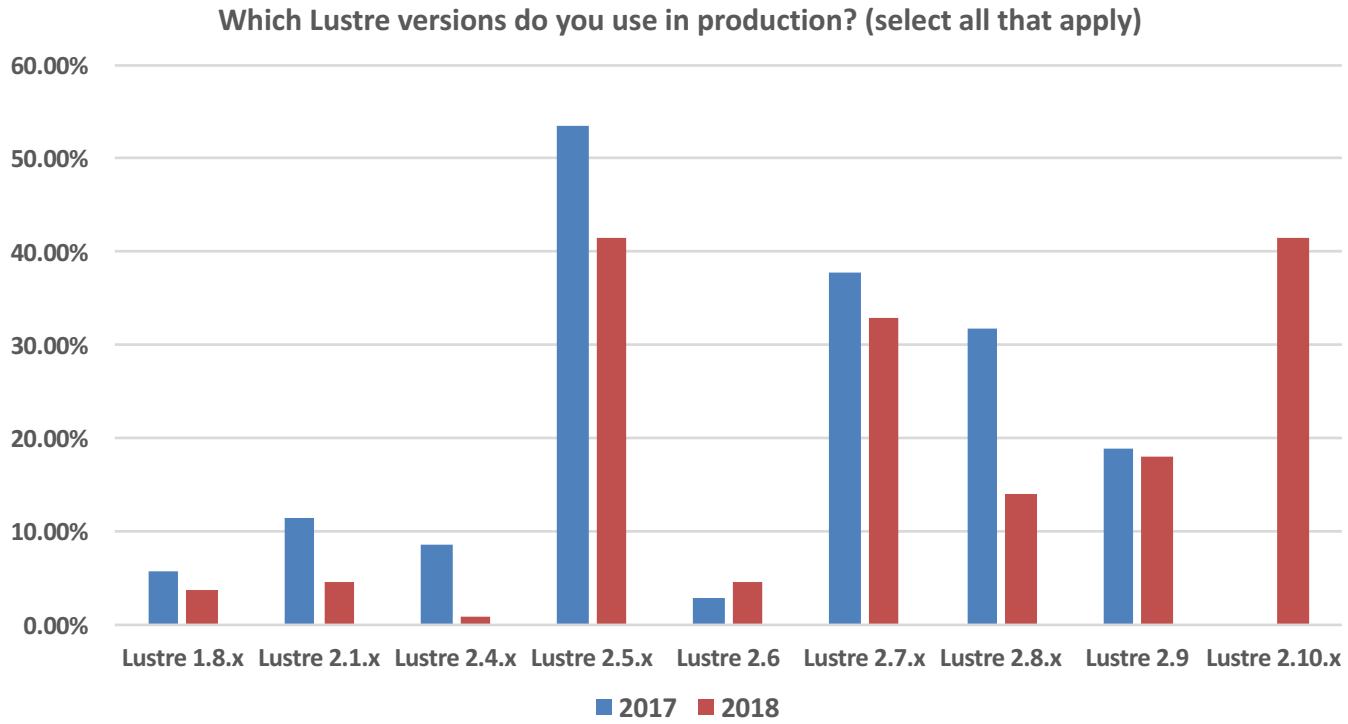
OpenSFS Lustre Working Group

Lustre on the Move

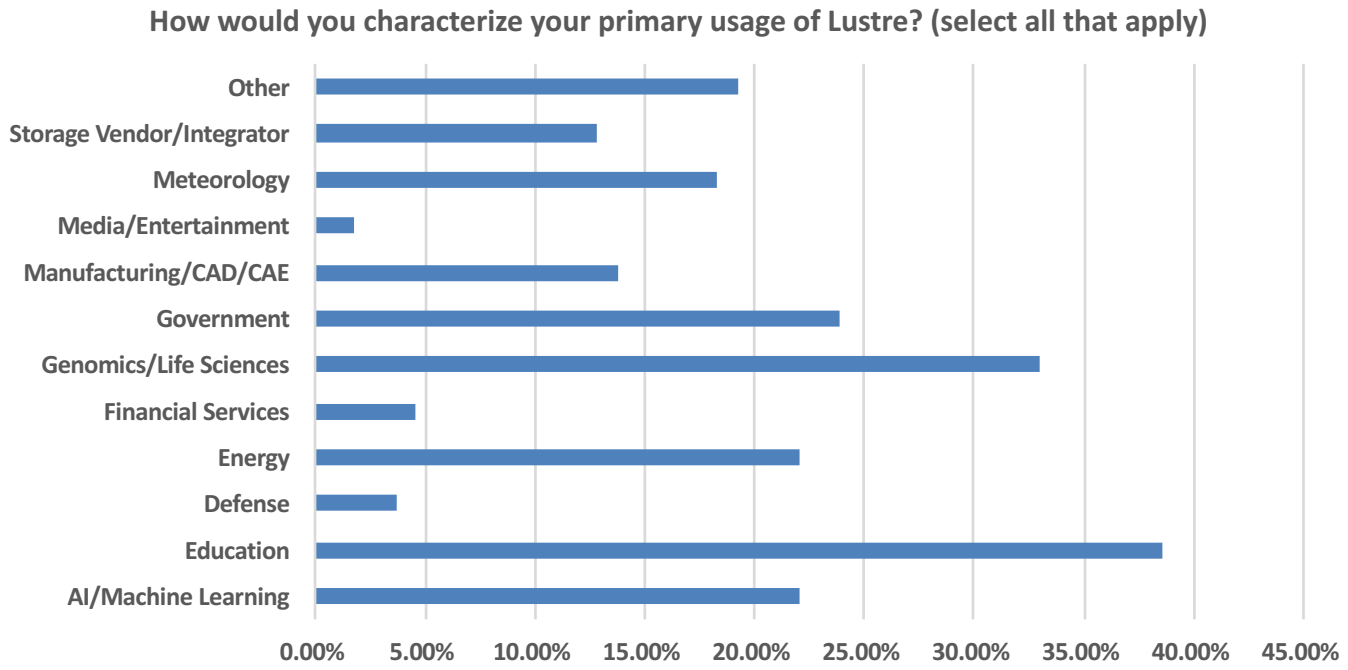
- Lustre Engineering team moved from Intel to Whamcloud
  - Whamcloud is an autonomous division of DDN
  - http://opensfs.org/press-releases/opensfs-congratulates-ddn-on-acquiring-intels-lustre-file-system-capability/
  - OpenSFS hosting webinar on this topic on Oct 2nd
    - http://lists.lustre.org/pipermail/lustre-discuss-lustre.org/2018-September/015926.html
- Development and test infrastructure relocated as a result
  - Issue tracking https://jira.whamcloud.com
  - Patch reviews https://review.whamcloud.com
  - Download site http://downloads.whamcloud.com
  - Wiki https://wiki.whamcloud.com

Community Survey - Versions



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

Community Survey - Usage



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

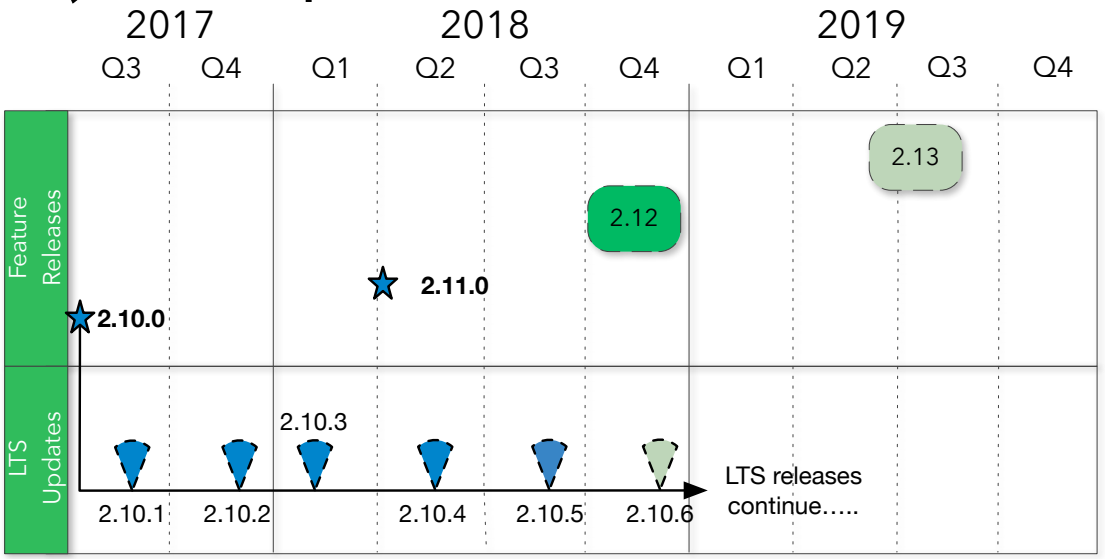
Lustre LTS Releases

- 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 May 2018 (introduced RHEL 7.5 support)
  - Lustre 2.10.5 Aug 2018 (first release since relocation)
- LWG will decide baseline/timing of next LTS stream Q4 2018

Lustre 2.12

- Targeted for October 2018 release
  - Feature complete and in stabilization period
- 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) CONFIRMED
  - LNet Network Health (LU-9120) CONFIRMED
  - Lazy Size on MDT (LU-9538) CONFIRMED
- http://wiki.lustre.org/Release_2.12.0

Lustre Community Roadmap



LEGEND: Expected Timeline | Timeline TBD | Completed | LTS Branch

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

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

2.12
- Lazy Size on MDT
- 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 4.0.8
- 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

Summary

- Hugely productive year in terms of roadmap advancement
- Lustre 2.11 is GA; Lustre 2.12 in final stages
- Lustre 2.10.5 is GA; 2.10.6 is targeted for Q4
- IML 4.0.8 is GA; IML 4.1 targeted for Q4
- Plenty of options to contribute to Lustre/IML

Thank you

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