



# Community Release Update

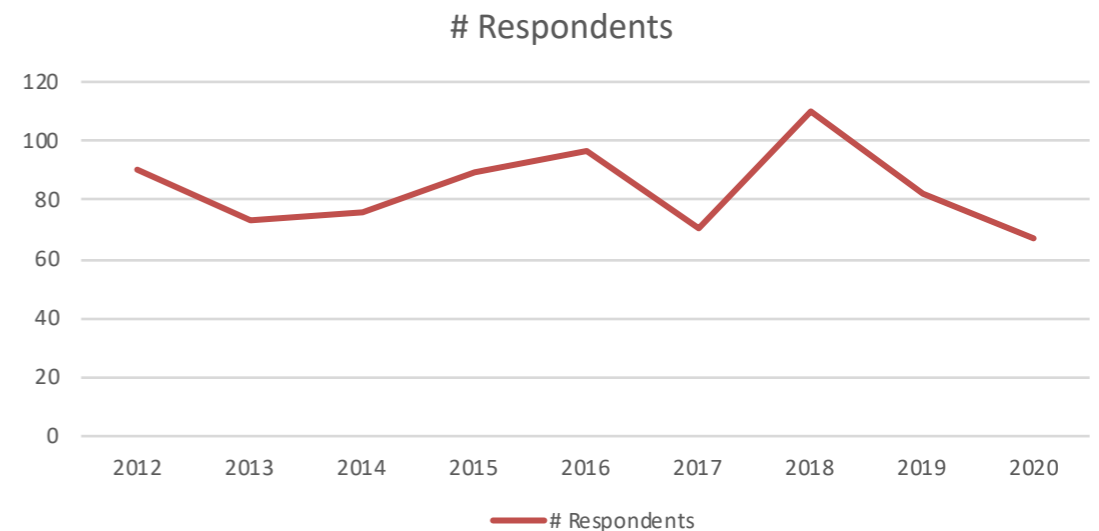
September 28<sup>th</sup> 2021

Peter Jones

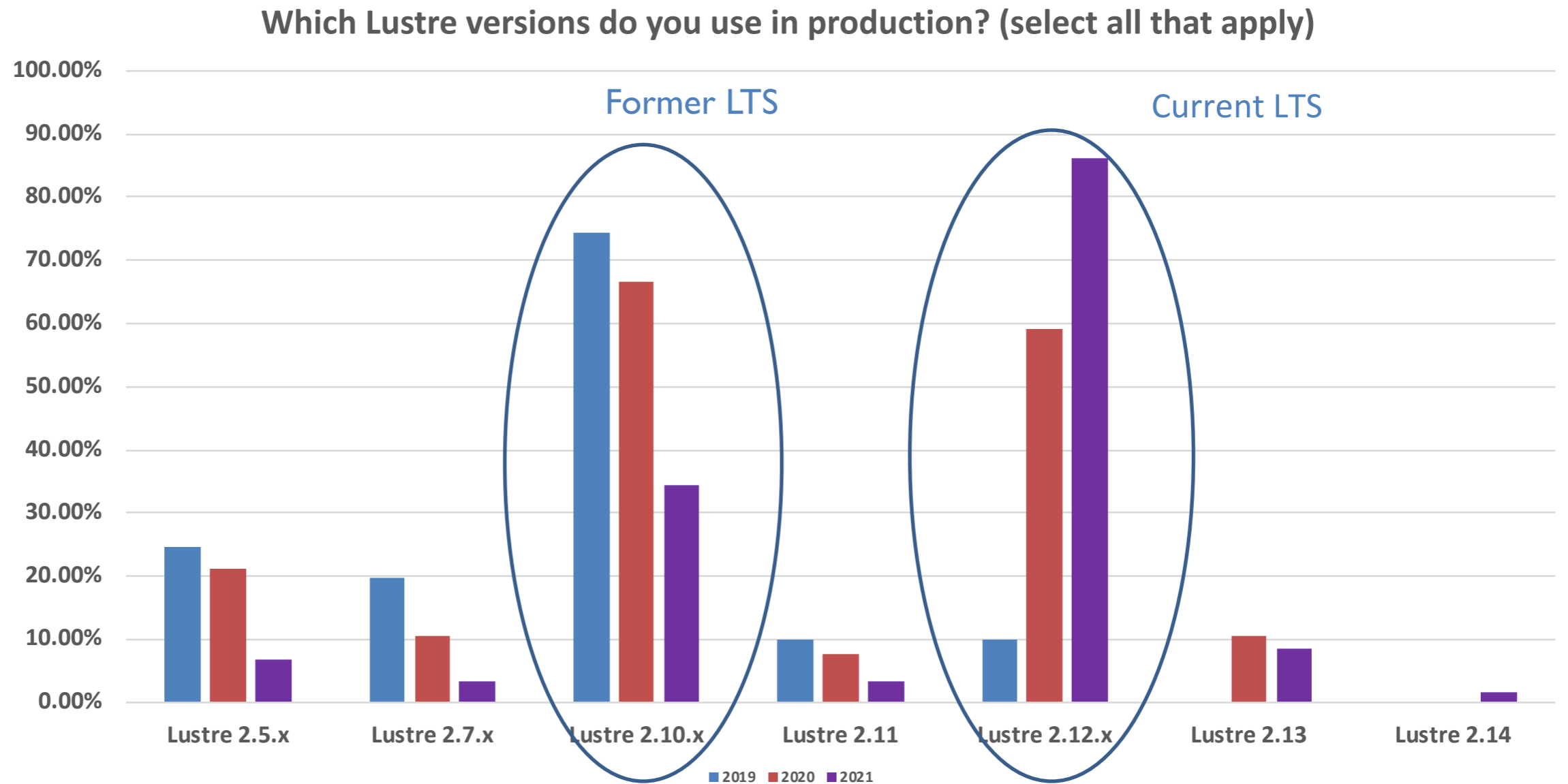
OpenSFS Lustre Working Group

# OpenSFS Lustre Working Group

- Has been operating as the single forum for planning activities for the community releases for a decade
- Led by Peter Jones (Whamcloud) and Dustin Leverman (ORNL)
- All welcome to attend and/or join the mailing list
- For more information visit the wiki
- [http://wiki.opensfs.org/Lustre Working Group](http://wiki.opensfs.org/Lustre_Working_Group)
- LWG issues survey annually in March to track trends in Lustre usage
- Full details available at [http://wiki.opensfs.org/Lustre Community Survey](http://wiki.opensfs.org/Lustre_Community_Survey)



# Community Survey - Versions

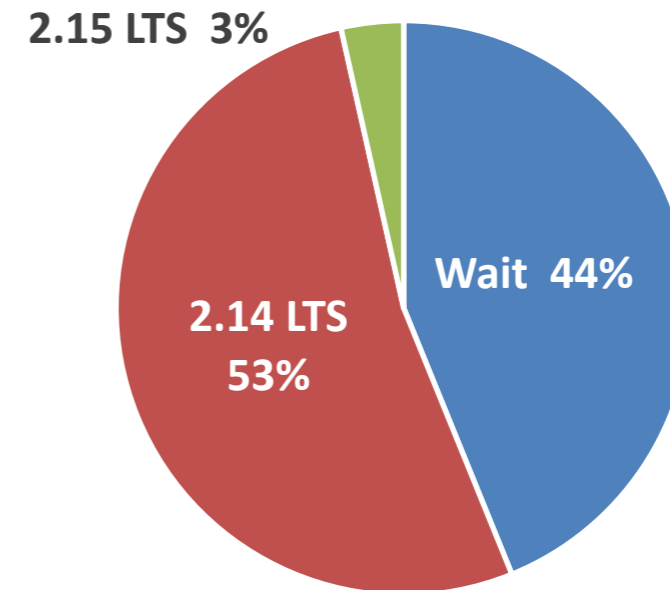


- Lustre 2.12.x LTS has the highest rate for production usage

# Community Survey - Analysis

- Would phase out updates on 2.12.x once switch made
- Opinions split about timing of moving the LTS branch
  - Newer features and support for new hardware drivers for change
  - Uncertainty around CentOS and desire for stability drivers to delay

Which option would you prefer for the LTS branch?



	RICE-OG	LUG21	ISC21
2.12.x	5	18	4
2.14.x	3	14	11
2.15.x	0	7	0
2.16.x	0	1	1
Total	8	40	16

# LTS Recommendation

- Designate Lustre 2.15 the new LTS branch with RHEL 8.x as primary distro for servers
  - Allows time for broader testing ahead of the initial GA
    - Will improve the quality of initial release
    - Provides time to work out alternative to CentOS (Alma/Rocky)
- What about those who prefer to remain on 2.12.x?
  - 2.12.x releases should continue for about another year
  - Interop between LTS releases means 2.12.x servers could be used with 2.15.x clients
  - Open source means that it is easy for interested parties to collaborate and publish any updates needed
- This is a recommendation so there is still a chance to lobby for alternative approach if you wish

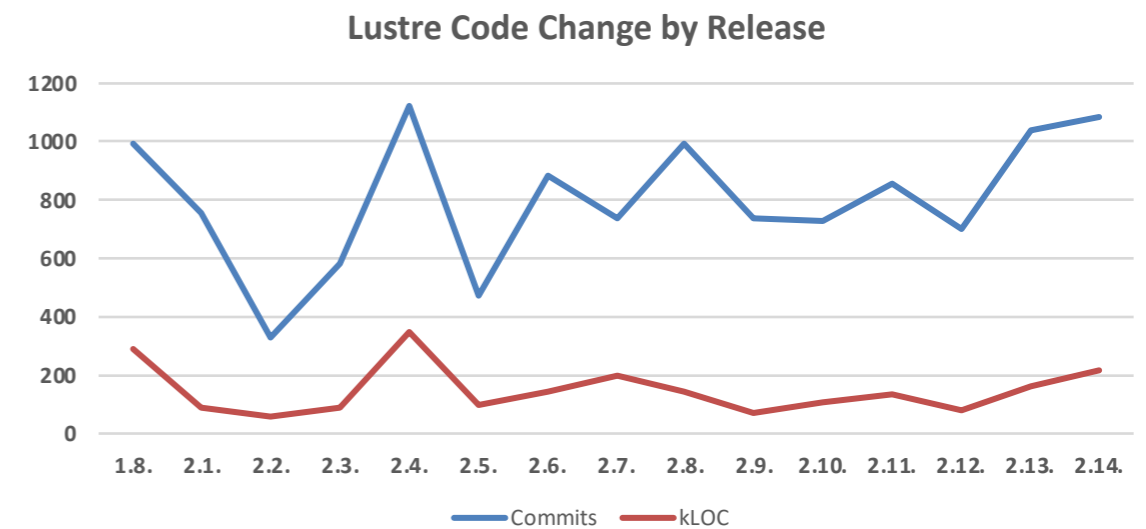
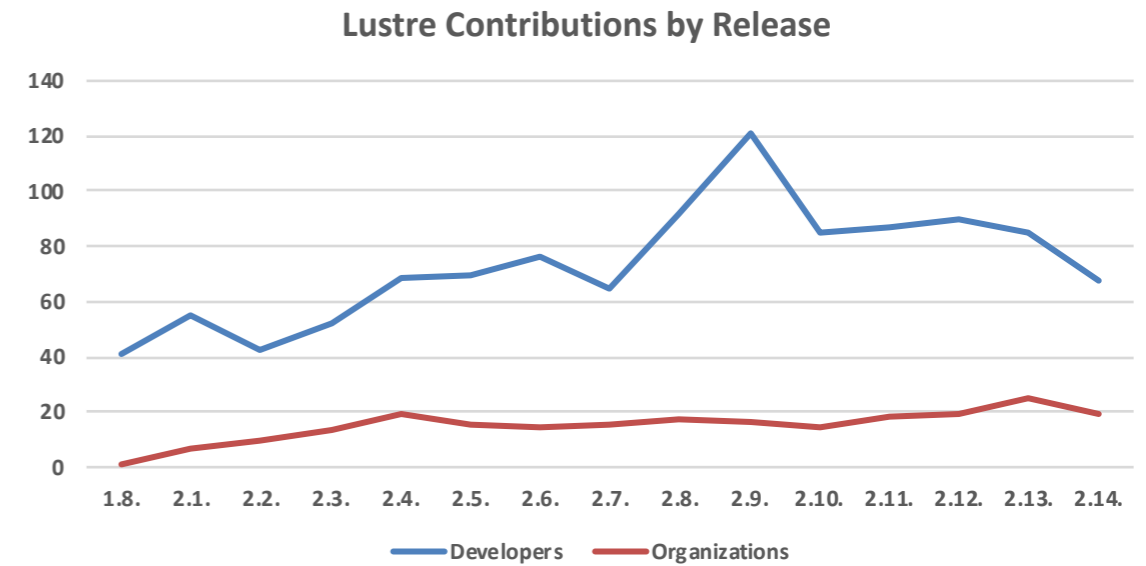
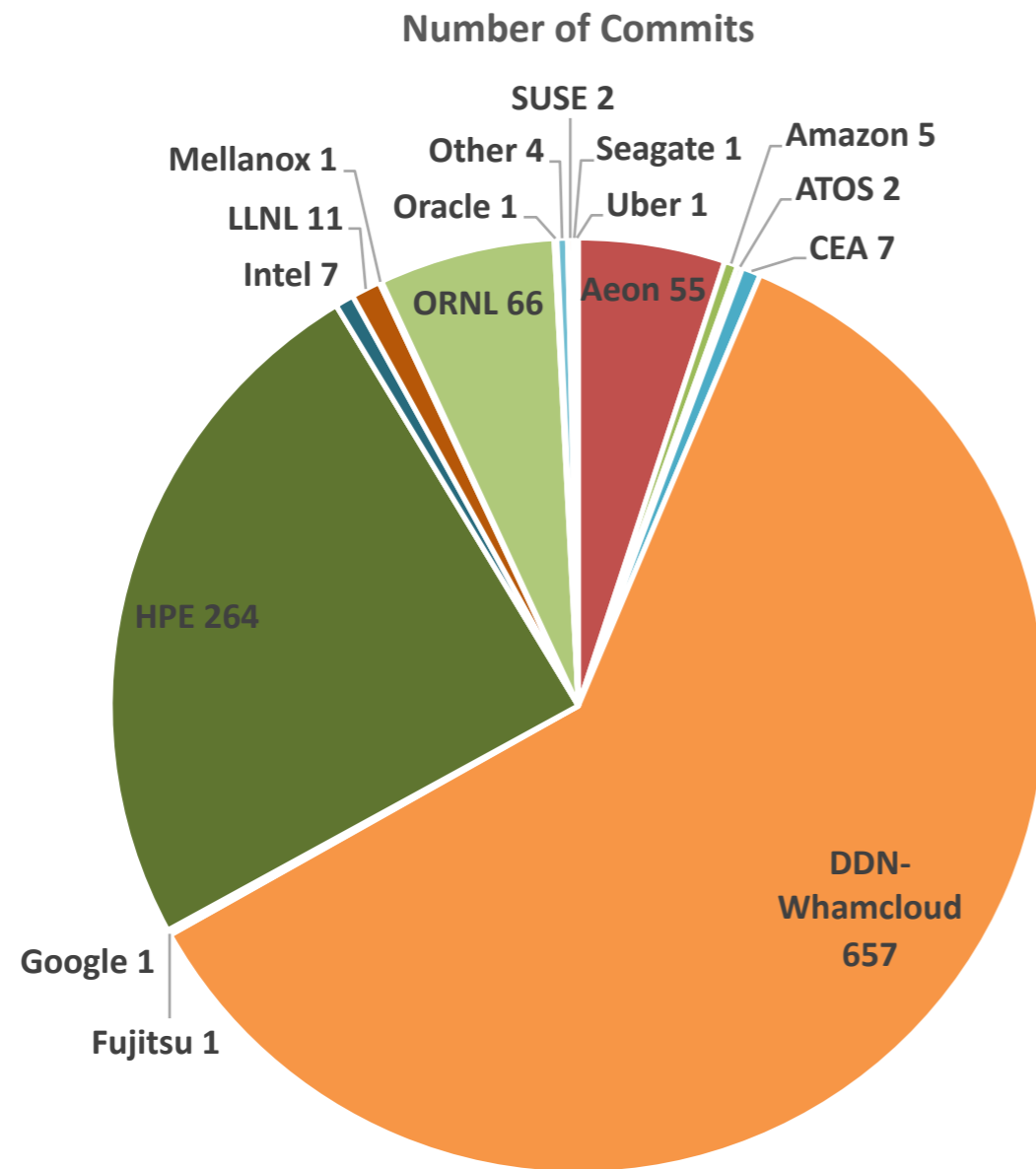
# Lustre 2.12.x LTS

- Lustre 2.12.7 went GA in July
  - RHEL 7.9 server and client support
  - RHEL 8.4 and SLES12 SP5 client support
  - Bug fixes from production 2.12.x deployments
  - [http://wiki.lustre.org/Lustre\\_2.12.7\\_Changelog](http://wiki.lustre.org/Lustre_2.12.7_Changelog)
- Lustre 2.12.8 expected towards the end of the year

# Lustre 2.14

- Went GA in February
- OS support
  - RHEL 8.3 servers/clients
  - RHEL 8.3/SLES15 SP2/Ubuntu 20.04 clients
- Interop/upgrades from 2.13 and latest Lustre 2.12.x
- Number of useful features
  - Client-side Data Encryption (LU-12275)
  - OST Pool Quotas (11023)
  - DNE Auto Restriping (LU-11025)
- [http://wiki.lustre.org/Release\\_2.14.0](http://wiki.lustre.org/Release_2.14.0)

# Lustre 2.14 Contributions

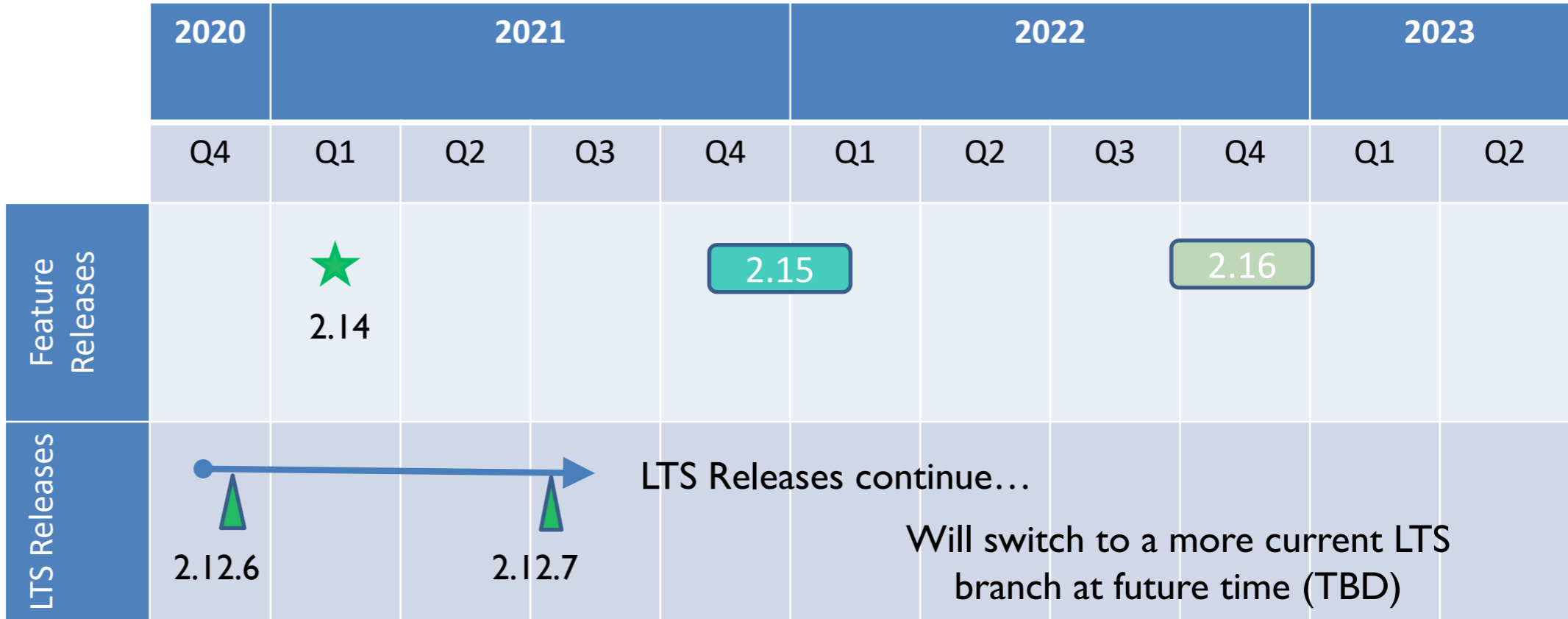




# Lustre 2.15

- Targeted for Q4 release
- OS support
  - RHEL 8.4 servers/clients
  - RHEL 8.4/SLES15 SP2/Ubuntu 20.04 clients
- Interop/upgrades from 2.14 and latest Lustre 2.12.x
- Number of useful features
  - Client-side Directory Encryption (LU-13717)
  - GPU Direct (LU-14798)
  - Network Selection Policy (UDSP) (LU-9121)
- [http://wiki.lustre.org/Release\\_2.15.0](http://wiki.lustre.org/Release_2.15.0)

# Lustre Community Roadmap



**LEGEND:**   Completed   Expected Timeline   Timeline TBD → LTS Branch

- 2.14**
- [Client Data Encryption](#)
  - [OST Pool Quotas](#)
  - [DNE Auto Restriping](#)

- 2.15**
- [Client Directory Encryption](#)
  - [GPU Direct](#)
  - [Network Selection Policy](#)

- 2.16**
- [FLR Erasure Coding](#)
  - [FLR Immediate Mirror](#)
  - [Metadata Writeback 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>



# Summary

- Recommending switching the LTS to 2.15
- Lustre 2.12.8 coming soon
- Lustre 2.15 in release testing
- Plenty of options for those interested in contributing to Lustre
- LWG [http://wiki.opensfs.org/Lustre Working Group](http://wiki.opensfs.org/Lustre_Working_Group)

# Thank you

**Open Scalable File Systems, Inc.**

3855 SW 153rd Drive  
Beaverton, OR 97006  
Ph: 503-619-0561  
Fax: 503-644-6708  
admin@opensfs.org



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