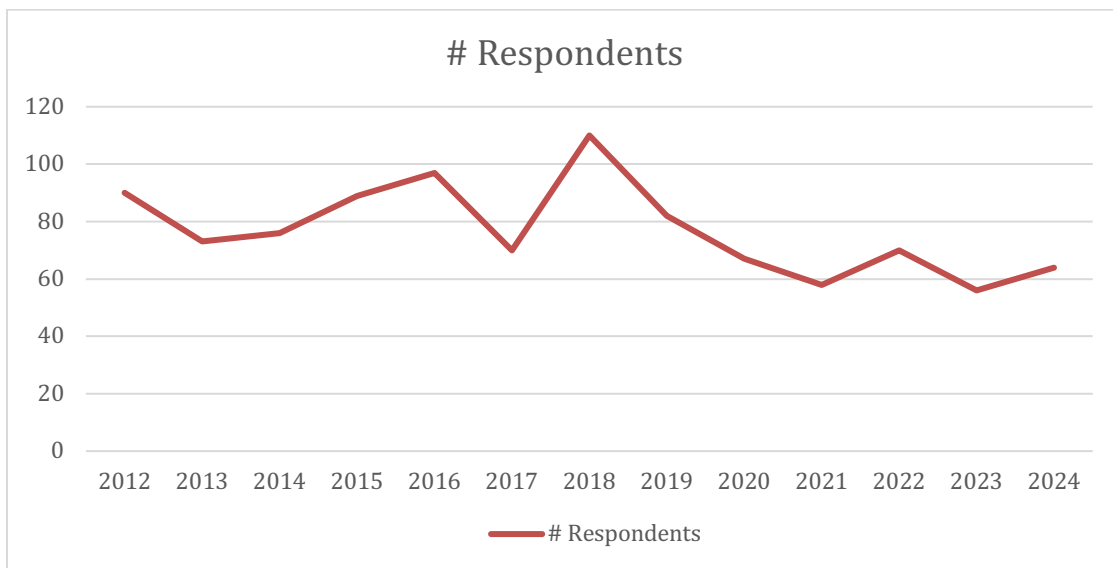**OpenSFS Survey March 2024 Results**

Background

A survey was developed and finalized during LWG meetings early in 2024. The intention was to collect information about Lustre usage across the community as input into the OpenSFS long-term support strategy.

Number of Respondents

- 64 respondents completed the survey.

Key Findings

- The Lustre 2.12.x LTS releases are still the most widely used in production
- There has been rapid adoption of the Lustre 2.15.x LTS releases
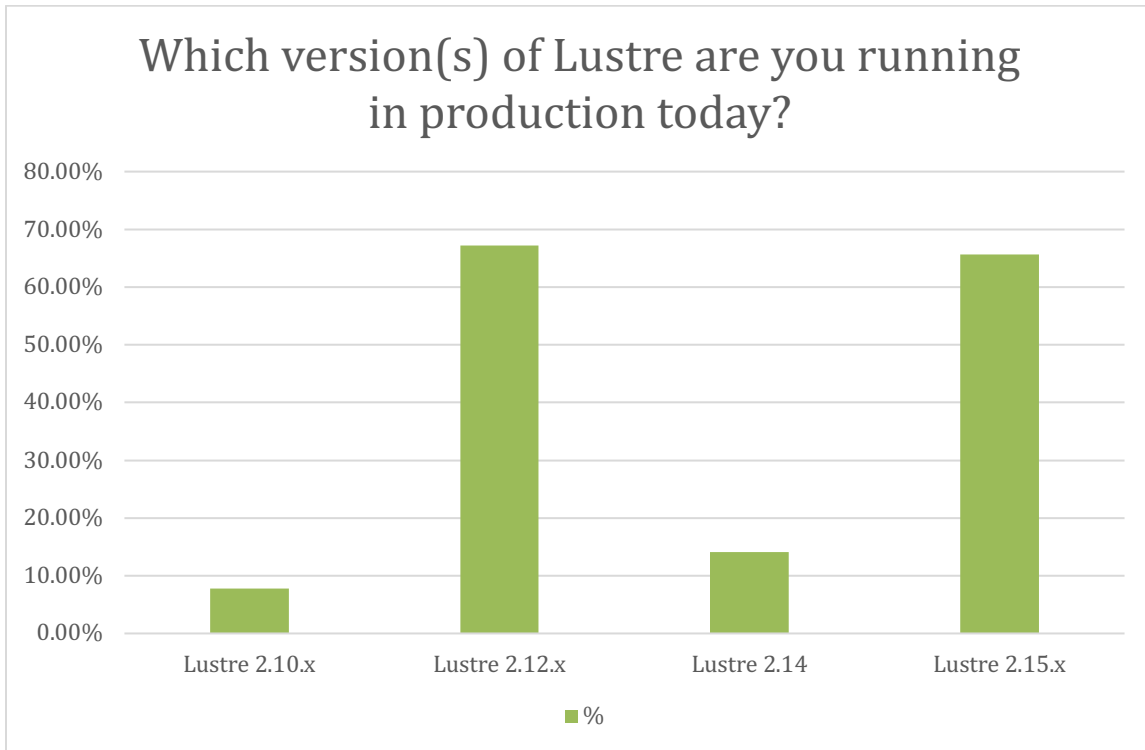
Detailed Findings

1. Which version(s) of Lustre are you running in production today?

This question allowed multiple selections so the sum can exceed the total number of respondents.

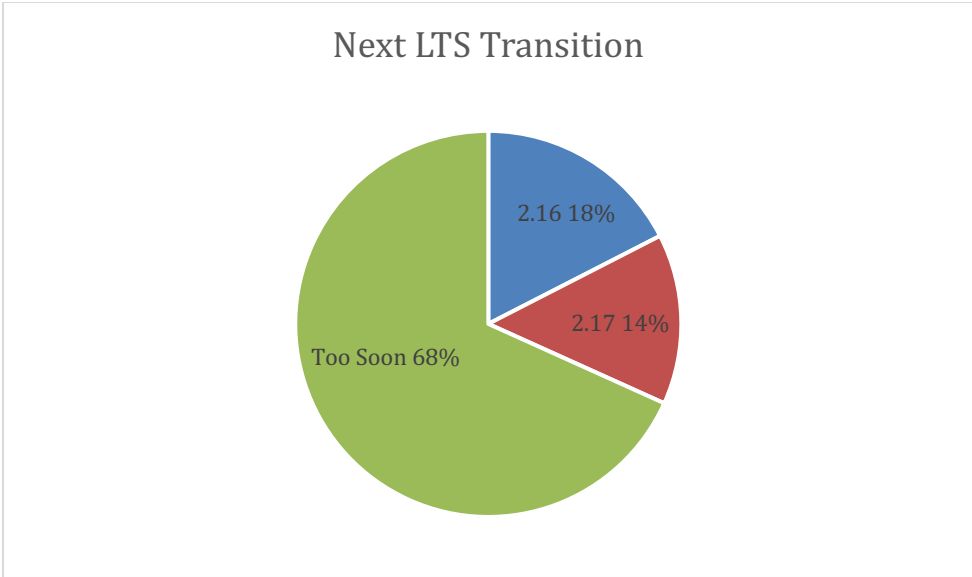| Version	%	#
Lustre 2.10.x	7.81%	5

Lustre 2.12.x	67.19%	43
Lustre 2.14	14.06%	9
Lustre 2.15.x	65.63%	42

Which version(s) of Lustre are you running in production today?

64 completed this question, 0 skipped.

2. <u>What is your assessment of the next LTS branch after 2.15.x?</u>

Lustre 2.16	17.19%	11
Lustre 2.17	14.06%	9
Too soon to decide	67.19%	43

Next LTS Transition
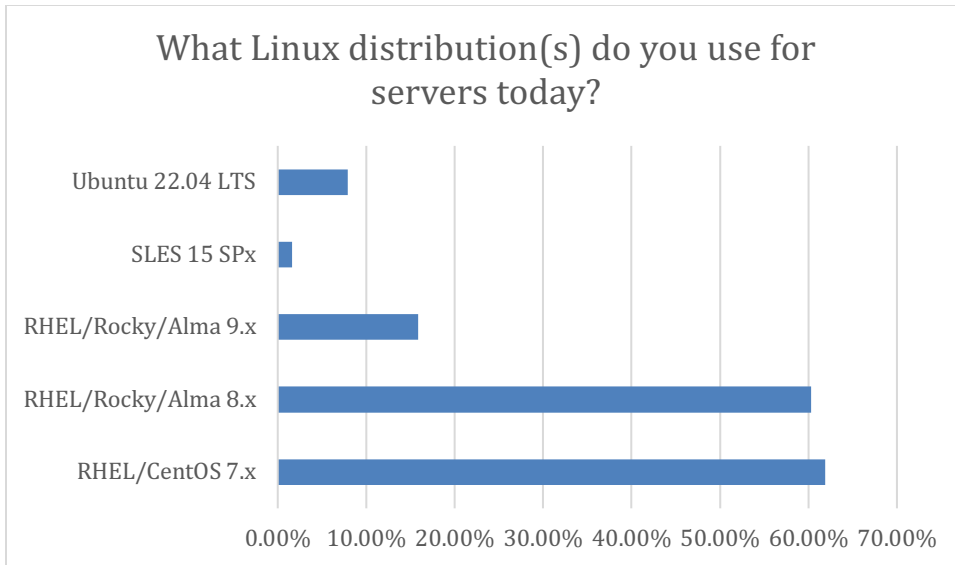

2.16 18%

2.17 14%

Too Soon 68%

63 completed this question, 1 skipped

3. <u>What Linux distribution(s) do you use for servers today?</u>

This question allowed multiple selections so the sum can exceed the total number of respondents.

Distro	%	#
RHEL/CentOS 7.x	61.90%	39
RHEL/Rocky/Alma 8.x	60.32%	38
RHEL/Rocky/Alma 9.x	15.87%	10
SLES 15 SPx	1.59%	1
Ubuntu 22.04 LTS	7.94%	5

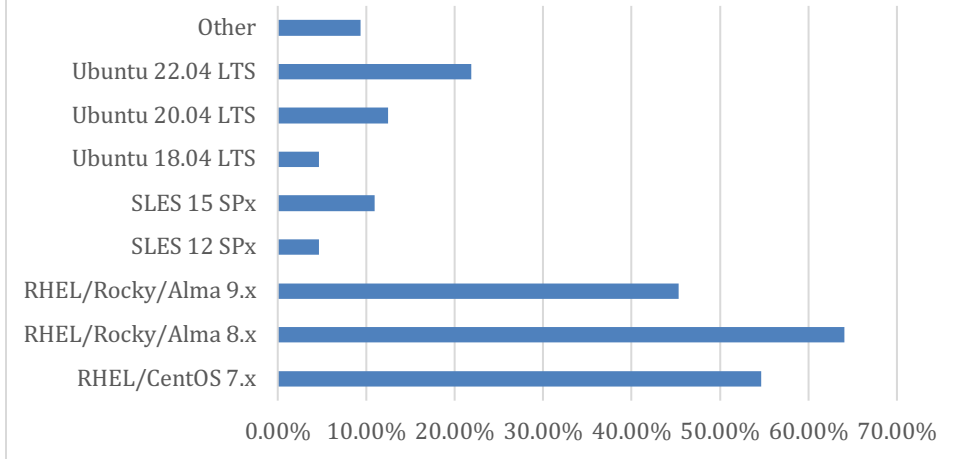**What Linux distribution(s) do you use for servers today?**

63 completed this question, 1 skipped

4. <u>What Linux distribution(s) do you use for clients today?</u>

This question allowed multiple selections so the sum can exceed the total number of respondents.

Distro	%	#
RHEL/CentOS 7.x	54.69%	35
RHEL/Rocky/Alma 8.x	64.06%	41
RHEL/Rocky/Alma 9.x	45.31%	29
SLES 12 SPx	4.69%	3
SLES 15 SPx	10.94%	7
Ubuntu 18.04 LTS	4.69%	3
Ubuntu 20.04 LTS	12.50%	8
Ubuntu 22.04 LTS	21.88%	14
Other	9.38%	6

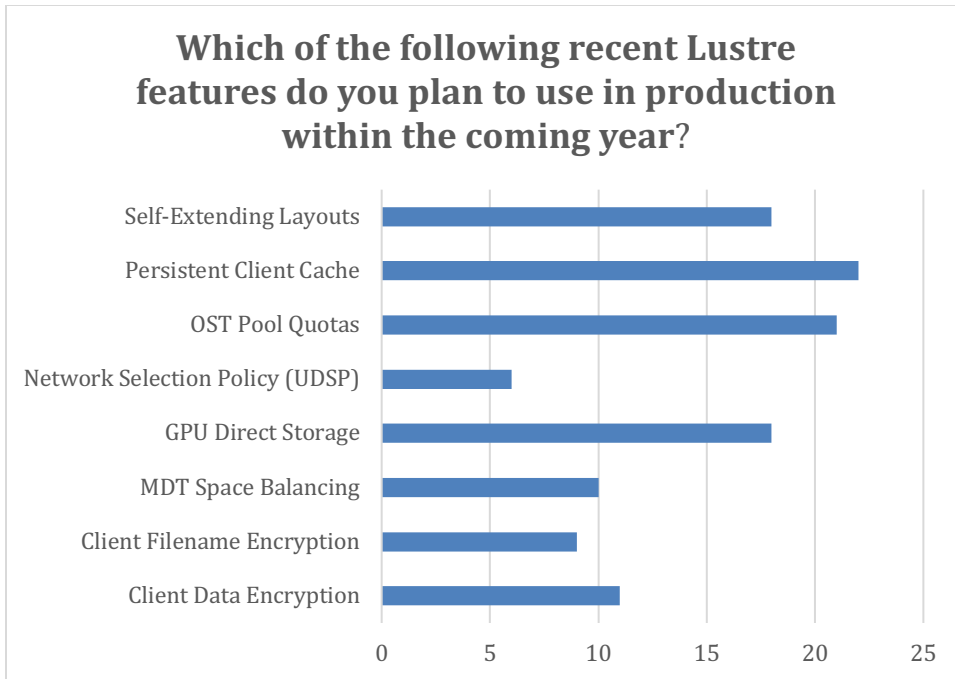## What Linux distribution(s) do you use for clients today?

Other responses included Debian and Ubuntu 24.04 (even though not GA at time of survey)

64 completed this question, 0 skipped.

5. <u>Which of the following recent Lustre features do you plan to use in production within the coming year?</u>

This question allowed multiple selections so the sum can exceed the total number of respondents.

Feature	%	#
Client Data Encryption	23.40%	11
Client Filename Encryption	19.15%	9
MDT Space Balancing	21.28%	10
GPU Direct Storage	38.30%	18
Network Selection Policy (UDSP)	12.77%	6
OST Pool Quotas	44.68%	21
Persistent Client Cache	46.81%	22
Self-Extending Layouts	38.30%	18

Which of the following recent Lustre features do you plan to use in production within the coming year?

47 completed this question, 17 skipped.

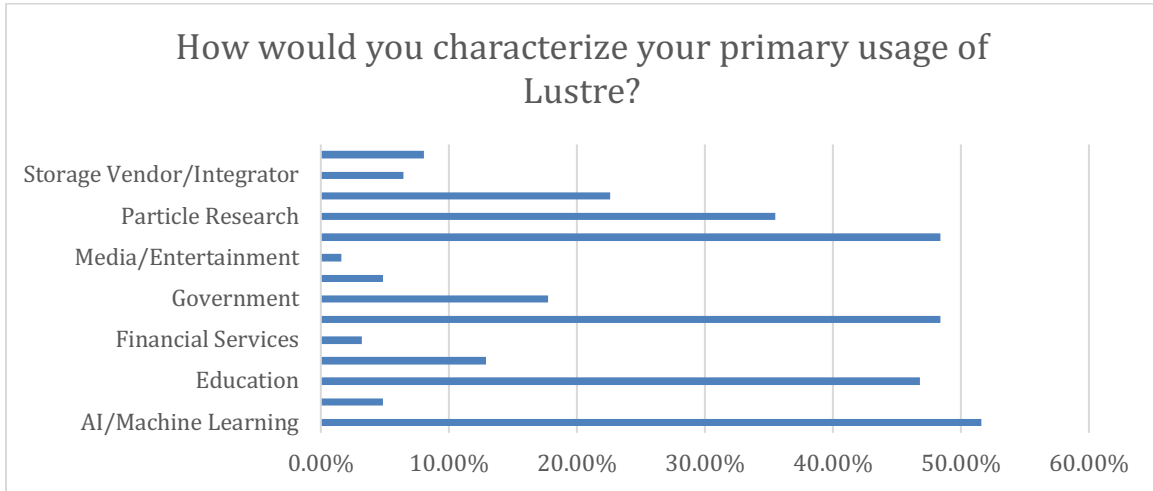6. <u>Which organization do you represent?</u>

50 Answered this question; 14 skipped.

7. <u>Which categories best describes your organization's usage of Lustre?</u>

This question allowed multiple selections so the sum can exceed the total number of respondents.

Primary Usage	%	#
AI/Machine Learning	51.61%	32
Defense	4.84%	3
Education	46.77%	29
Energy	12.90%	8
Financial Services	3.23%	2
Genomics/Life Sciences	48.39%	30
Government	17.74%	11
Manufacturing/CAD/CAE	4.84%	3
Media/Entertainment	1.61%	1
Meteorology/Climate Research	48.39%	30
Particle Research	35.48%	22

Radio Astronomy	22.58%	14
Storage Vendor/Integrator	6.45%	4
Other	8.06%	5

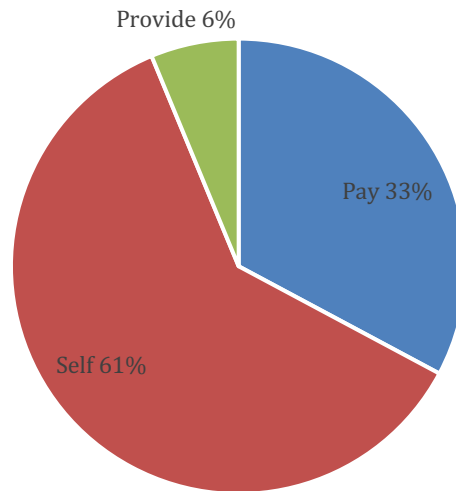The Other category had several different research categories.

62 respondents answered the question; 2 skipped.

8. <u>What best describes your Lustre support situation?</u>

This only permitted a single selection so the sum of respondents should equal the total number of respondents.

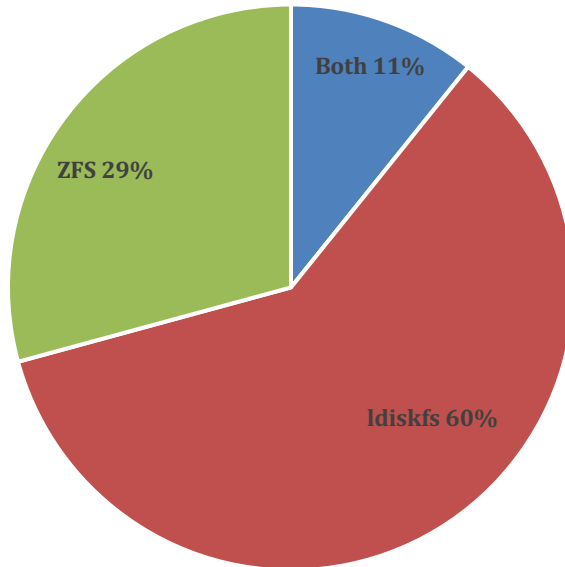|	
We have formal Lustre support arrangements in place with another organization	32.81%
We self-support	60.94%
We offer support to others	6.25%

What best describes your Lustre support situation?

Provide 6%

Pay 33%

Self 61%

64 respondents answered the question; 0 skipped.

9. What backend filesystem do you use for Lustre?

Ldiskfs vs Zfs

Both 11%

ZFS 29%

ldiskfs 60%

64 respondents answered the question; 0 skipped.

10. <u>Do you have any requirements that you prefer to use something other than Lustre for? If so, please provide some details.</u>

Feedback discussed at April 4th LWG meeting.

23 respondents answered; 41 skipped this question.