

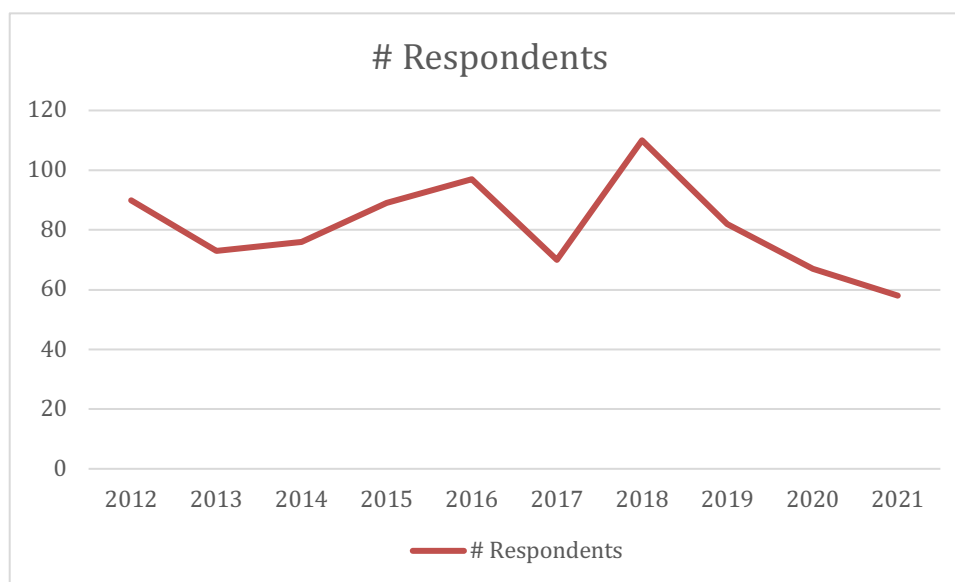
## OpenSFS Survey March 2021 Results

### Background

A survey was developed and finalized during LWG meetings early in 2021. The intention was to collect information about Lustre usage across the community as input into the OpenSFS long-term support strategy.

### Number of Respondents

- 58 respondents completed the survey



### Key Findings

- The Lustre 2.12.x LTS releases are the most widely used version in production
- There is a lot of uncertainty around plans for Linux distributions

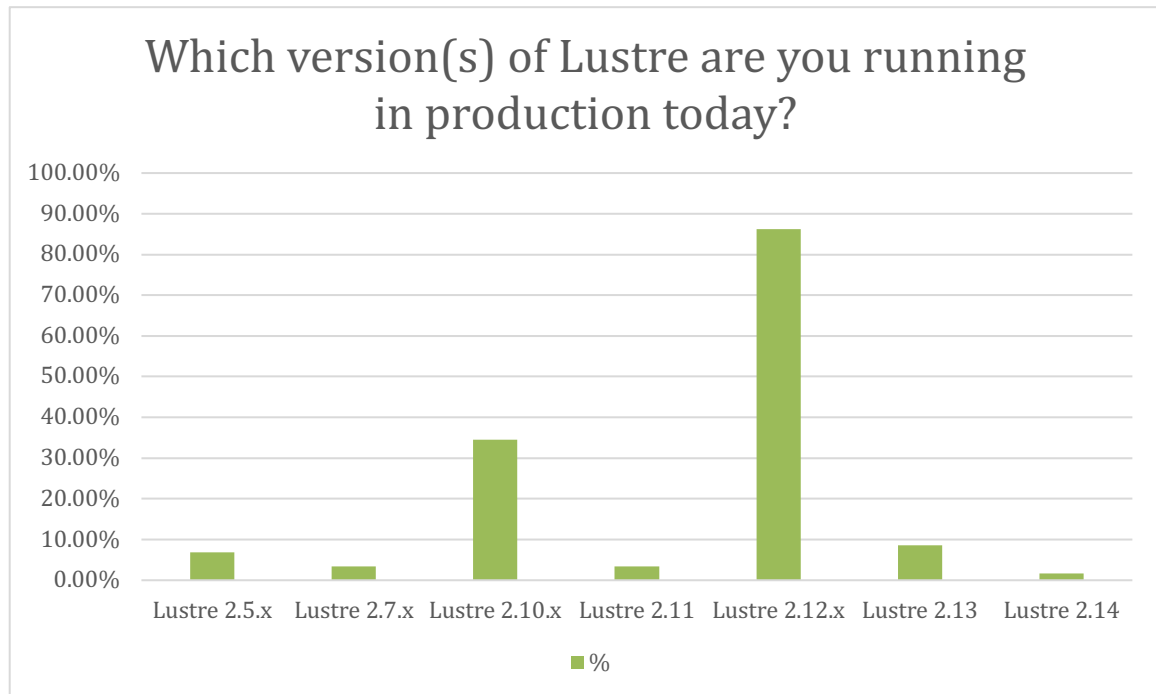
### Detailed Findings

#### 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 2.5.x	6.90%	4
Lustre 2.7.x	3.45%	2
Lustre 2.10.x	34.48%	20
Lustre 2.11	3.45%	2
Lustre 2.12.x	86.21%	50
Lustre 2.13	8.62%	5
Lustre 2.14	1.72%	1



58 completed this question, 0 skipped

## 2. Which option would you prefer relating to the LTS branch?

LTS Options	%	#
Remain on 2.12.x at least for the coming year and reassess then	43.86%	25
Transition to Lustre 2.14 as the next LTS release	52.63%	30
Transition to Lustre 2.15 once it is available	3.51%	2
Transition to Lustre 2.16 once it is available	0.00%	0

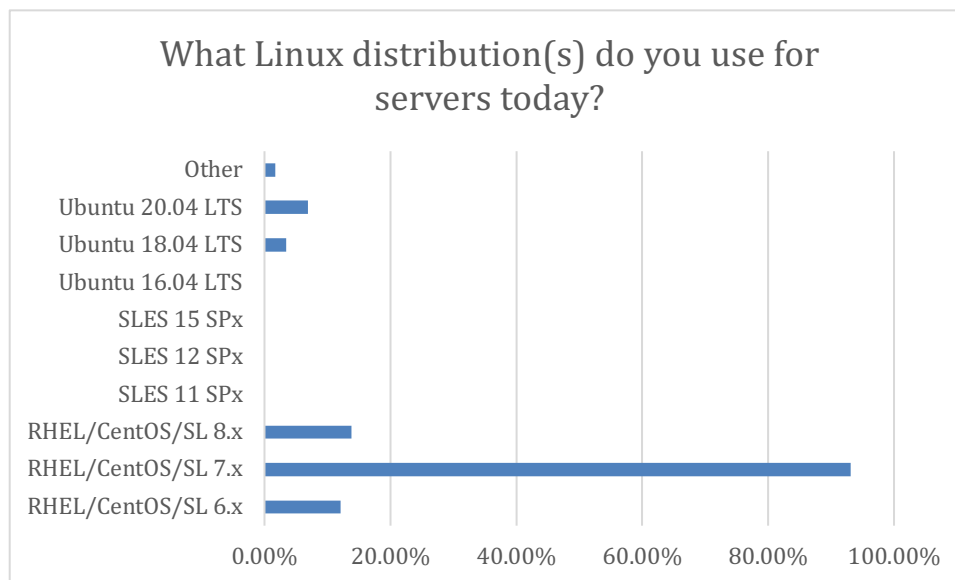
57 completed this question, 1 skipped

### 3. What Linux distribution(s) do you use for servers today?

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

Distro	%	#
RHEL/CentOS/SL 6.x	12.07%	7
RHEL/CentOS/SL 7.x	93.10%	54
RHEL/CentOS/SL 8.x	13.79%	8
SLES 11 SPx	0.00%	0
SLES 12 SPx	0.00%	0
SLES 15 SPx	0.00%	0
Ubuntu 16.04 LTS	0.00%	0
Ubuntu 18.04 LTS	3.45%	2
Ubuntu 20.04 LTS	6.90%	4
Other	1.72%	1

The Other selection was for Debian 7.11 and 9.13

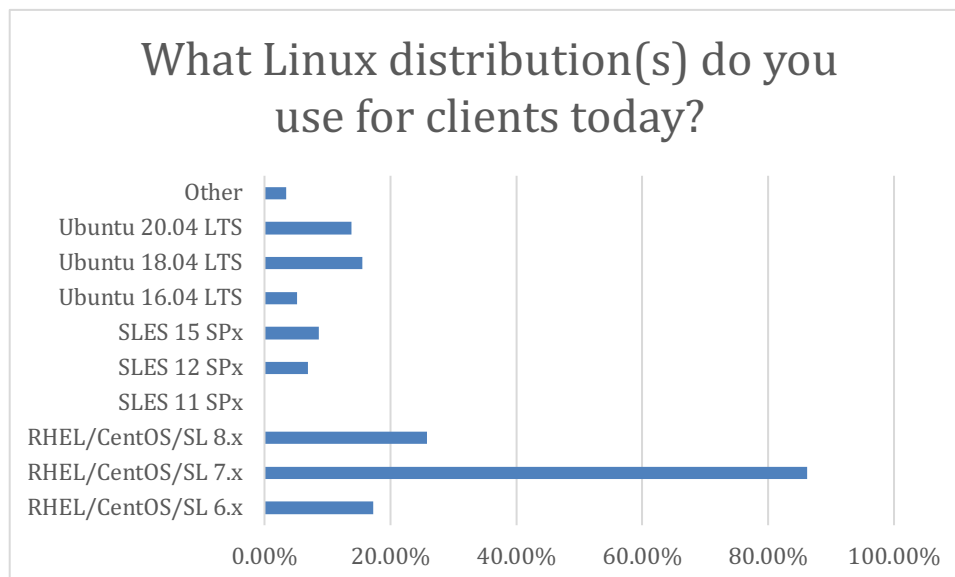


58 completed this question, 0 skipped

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

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

Distro	%	#
RHEL/CentOS/SL 6.x	17.24%	10
RHEL/CentOS/SL 7.x	86.21%	50
RHEL/CentOS/SL 8.x	25.86%	15
SLES 11 SPx	0.00%	0
SLES 12 SPx	6.90%	4
SLES 15 SPx	8.62%	5
Ubuntu 16.04 LTS	5.17%	3
Ubuntu 18.04 LTS	15.52%	9
Ubuntu 20.04 LTS	13.79%	8
Other	3.45%	2



Other responses included various Debian releases.

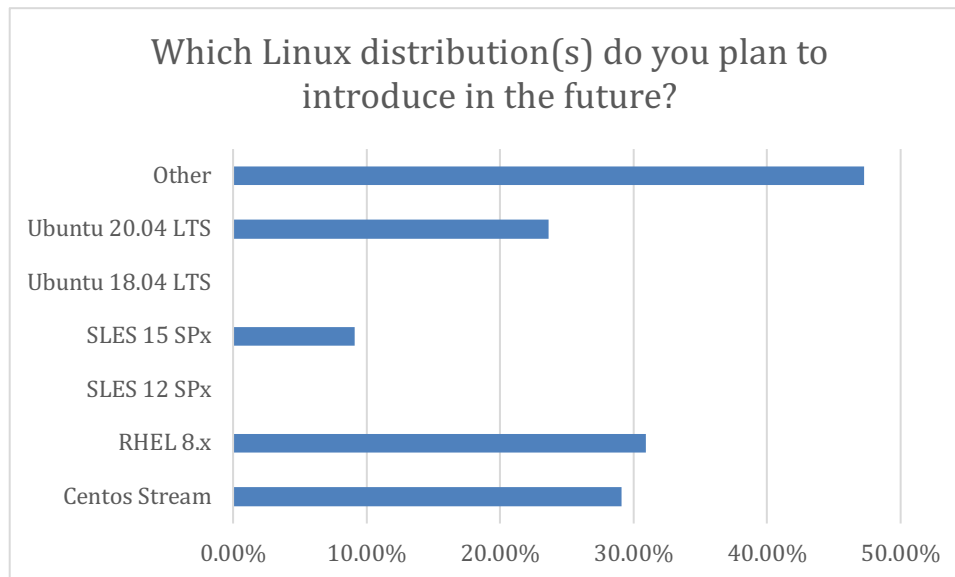
58 completed this question, 0 skipped.

##### 5. What Linux distribution(s) do you plan to introduce in the future?

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

Distro	%	#
Centos Stream	29.09%	16
RHEL 8.x	30.91%	18

SLES 12 SPx	0.00%	0
SLES 15 SPx	9.09%	5
Ubuntu 18.04 LTS	0.00%	0
Ubuntu 20.04 LTS	23.64%	13
Other	47.27%	26

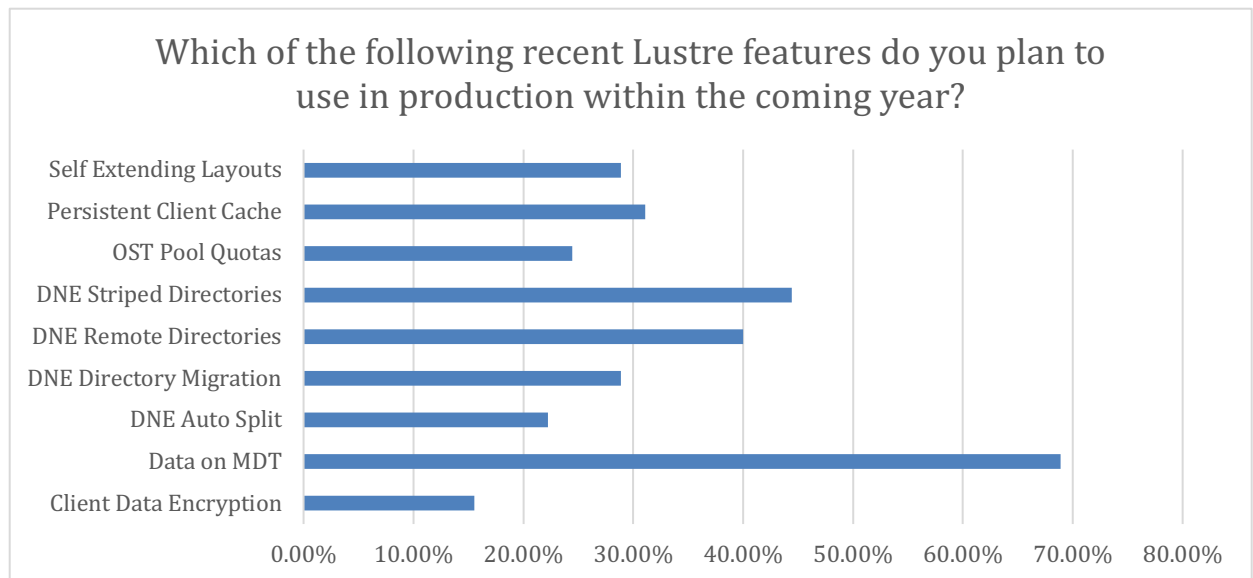


Other: 17 put RockyLinux/Alma or whatever becomes the industry-standard replacement for CentOS; 3 Debian; 1 Ubuntu 22.04; 2 Don't know; 1 Oracle Linux

58 completed this question, 0 skipped.

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

Feature	%	#
Client Data Encryption	15.56%	7
Data on MDT	68.90%	31
DNE Auto Split	22.22%	10
DNE Directory Migration	28.89%	13
DNE Remote Directories	40.00%	18
DNE Striped Directories	44.44%	20
OST Pool Quotas	24.44%	11
Persistent Client Cache	31.11%	14
Self-Extending Layouts	28.89%	13



45 completed this question, 13 skipped.

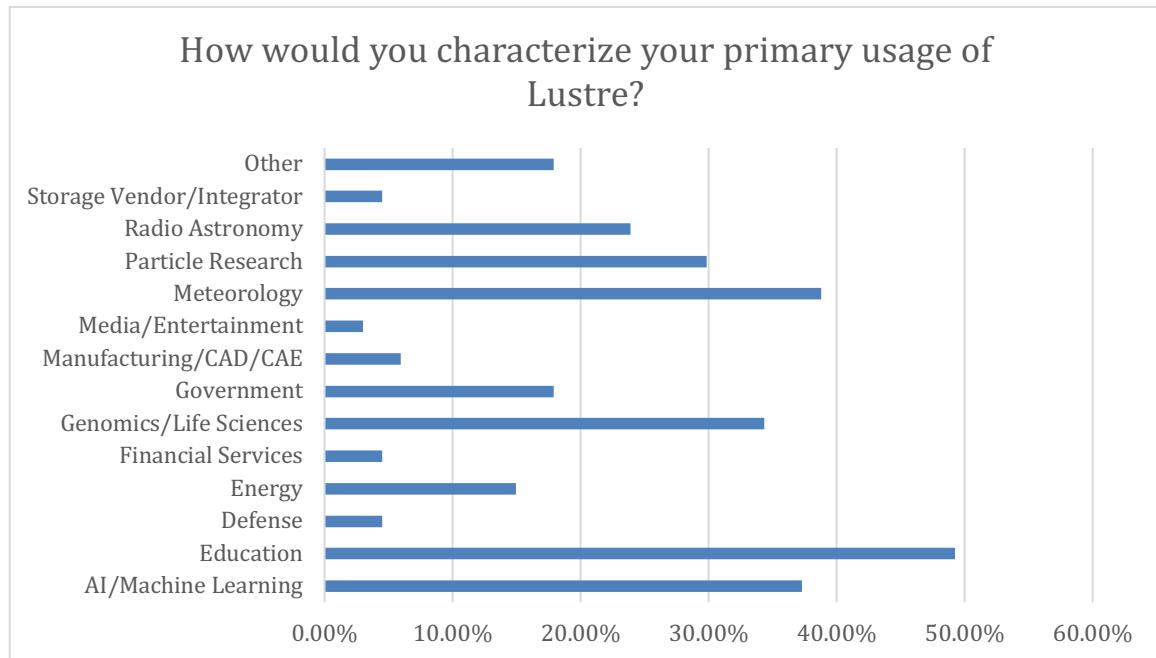
**7. Which organization do you represent?**

50 Answered this question; 8 skipped.

**8. Which categories best describes your organization's usage of Lustre?**

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

Primary Usage	%	#
AI/Machine Learning	38.60%	22
Education	33.33%	19
Defense	5.26%	3
Energy	17.54%	10
Financial Services	5.26%	3
Genomics/Life Sciences	42.11%	24
Government	15.79%	9
Manufacturing/CAD/CAE	8.77%	5
Media/Entertainment	3.51%	2
Meteorology/Climate Research	31.58%	18
Particle Research	33.33%	19
Radio Astronomy	17.54%	10
Storage Vendor/Integrator	12.28%	7
Other	8.77%	5



The Other category had no commonality between selections.

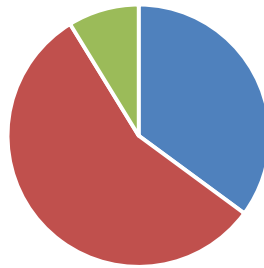
57 respondents answered the question; 1 skipped.

#### 9. What best describes your Lustre support situation?

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	35.09%
We self-support	56.14%
We offer support to others	8.77%

### What best describes your Lustre support situation?



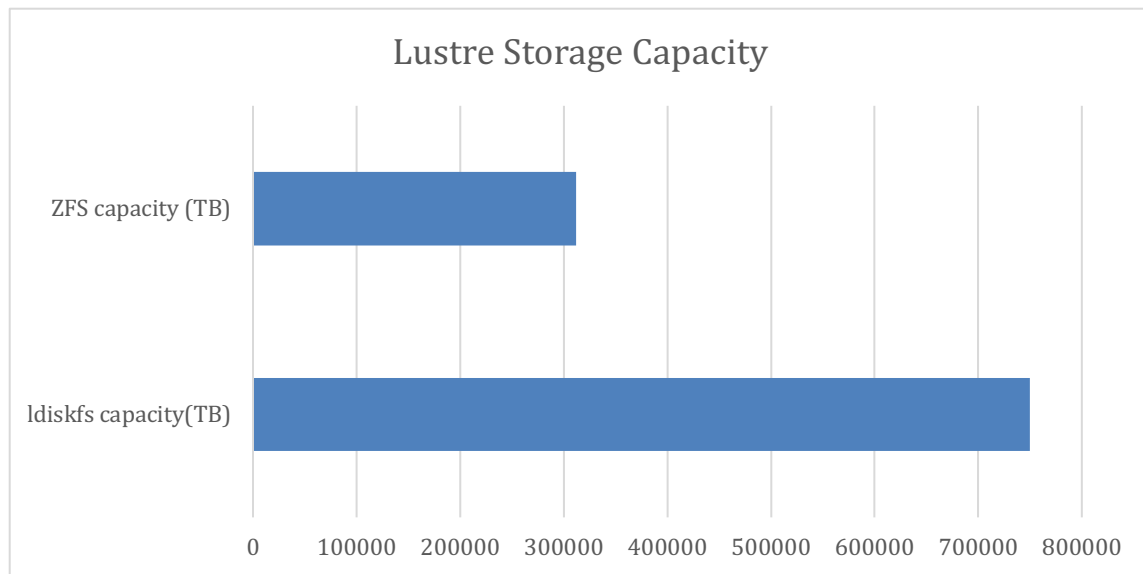
- We have formal Lustre support arrangements in place with another organization
- We self-support
- We offer support to others

57 respondents answered the question; 1 skipped.

### 10. What is the total amount of Lustre storage that you have?

	Total	Responses	Average
Number of filesystems	229	50	5
ldiskfs capacity (TB)	749563	46	16295
ZFS capacity (TB)	311645	46	6775
Number of MDTs	604	50	12
Number of OSTs	9558	50	192
Number of Clients	160140	50	3203
Number of Routers	1403	49	29





8 respondents skipped this question.