# **OpenSFS Survey March 2016 Results**

#### **Background**

A survey was developed and finalized during LWG meetings early in 2016. The intention was to collect information about Lustre usage across the community as input into the OpenSFS long-term support strategy.

### **Key Findings**

- 97 respondents completed the survey compared to 89 in 2015, 76 in 2014, 73 in 2013 and 90 in 2012
- While Lustre 2.5.x remains the most broadly used Lustre version in production, there has been strong uptake in adoption of Lustre 2.7.x and even some usage of Lustre 2.8 prior to it being GA

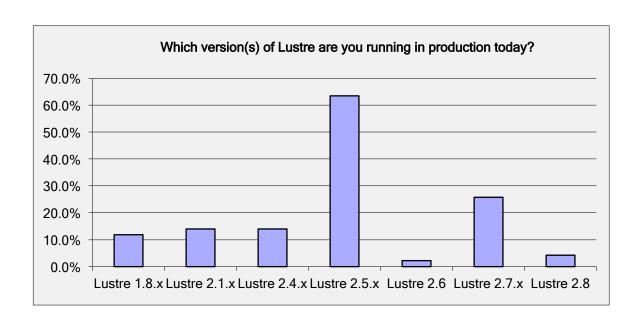
# **Detailed Findings**

## 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.

Which version(s) of Lustre are you running in production today?		
Answer Options	Response Percent	Response Count
Lustre 1.8.x	11.8%	11
Lustre 2.1.x	14.0%	13
Lustre 2.4.x	14.0%	13
Lustre 2.5.x	63.4%	59
Lustre 2.6	2.2%	2
Lustre 2.7.x	26.9%	25
Lustre 2.8	4.3%	4
Other (please specify)		15
ans	swered question	93
s	kipped question	4

Most comments provided clarifying details about which vendor distribution they were using. One site reported using Lustre 2.3



# 2. What Linux distribution(s) do you use?

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

Distro	Servers #	Servers %	Clients #	Clients %
RHEL/CentOS 5.x	12	12.6%	11	11.6%
RHEL/CentOS 6.x	88	92.6%	83	87.3%
RHEL/CentOS 7.x	11	11.6%	32	33.7%
SLES 11 SPx	2	2.1%	14	14.7%
SLES 12	1	1.1%	2	2.1%
SLES 12 SP1	1	1.1%	3	3.2%

Two respondents skipped this question

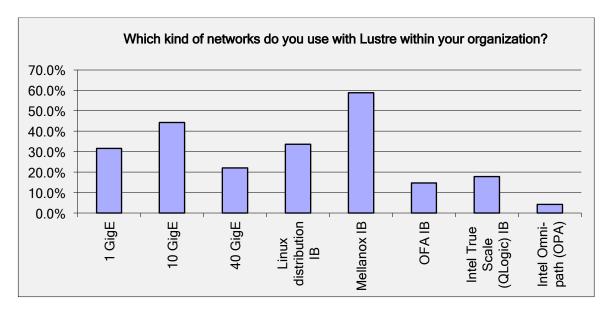
Other options indicated -1 Ubuntu and 1 Fedora Core

# 3. Which kind of networks do you use with Lustre within your organization?

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

Answer Options	Response Percent	Response Count
1 GigE	31.6%	30
10 GigE	44.2%	42
40 GigE	22.1%	21

Linux distribution IB	33.7%	32	
Mellanox IB	58.9%	56	
OFA IB	14.7%	14	
Intel True Scale (QLogic) IB	17.9%	17	
Intel Omni-path (OPA)	4.2%	4	
Other (please specify)		8	
ans	wered question		95
sk	kipped question		2



# 4. What best describes your level of interest in the following recent Lustre features?

Answer Options	Use in production	Will use within year	Testing /Evaluating	Feature not ready yet	May use in future	No interest	Response Count
DNE	9	15	17	1	35	6	83
HSM	5	10	20	3	39	10	87
NRS	3	4	10	2	36	12	67
LFSCK (lctl) Wide Striping	12	17	23	0	26	5	83
(161 - 2000 stripes)	5	3	11	1	27	28	75
ZFS	21	5	21	4	34	4	89
					answered	question	93
					skipped	question	4

#### 5. Which feature(s) would you like to see in upcoming versions of Lustre?

This question permitted free text answers and there was great diversity in the answers. The most popular suggestions had six respondents interested and was for project quotas

Thirty five respondents skipped this question

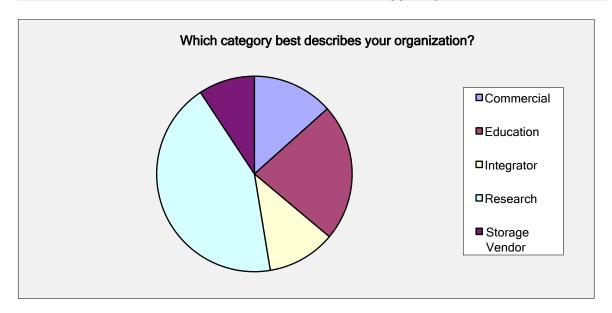
#### 6. Which organization do you represent?

76 Answered this question; 23 skipped it.

#### 7. Which category best describes your organization?

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

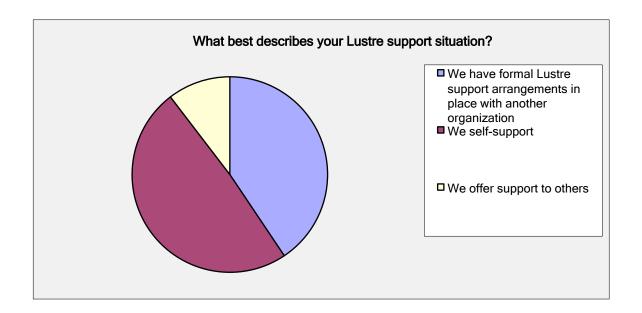
Answer Options	Response Percent	Response Count	
Commercial	13.4%	13	
Education	22.7%	22	
Integrator	11.3%	11	
Research	43.3%	42	
Storage Vendor	9.3%	9	
ans	wered question	97	7
sk	kipped question	(	)



#### 8. 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.

Answer Options	Response Percent	Respons Count	е
We have formal Lustre support arrangements in place with another organization	40.6%	39	
We self-support	49.0%	47	
We offer support to others	10.4%	10	
ans	wered question		96
sk	ripped question		1



# 9. What is the total number of Lustre filesystems you have in production?

406 filesystems were declared across all respondents.

Five respondents skipped this question

# 10. How many of the following components do you have in your largest Lustre filesystem?

#### **Component Total**

MDS	158
MDT	155
OSS	2,632
OST	9,410
Client	147,030

Eight respondents skipped this question.