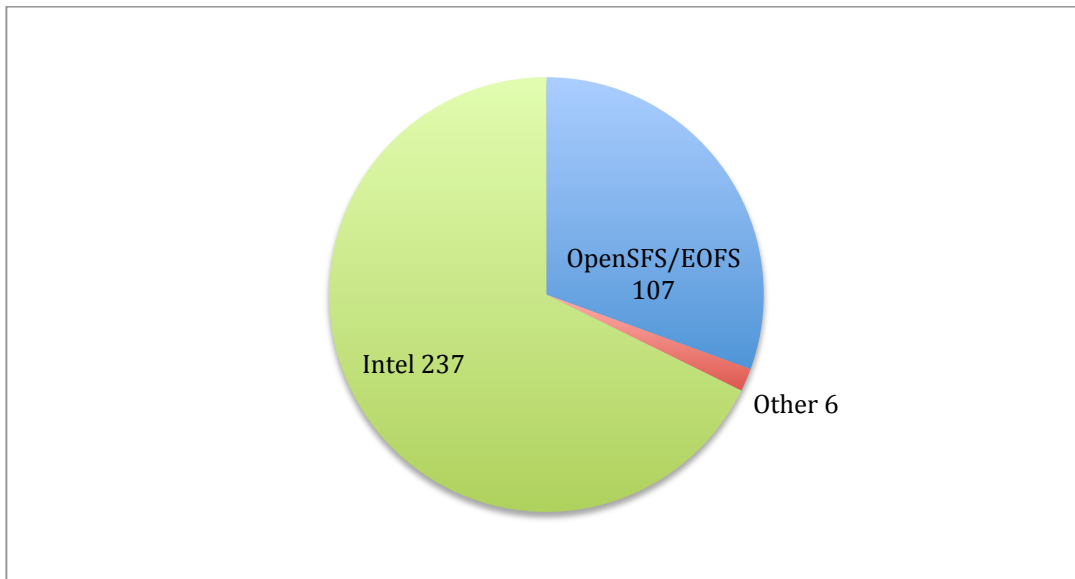




## **OpenSFS-Intel Lustre Tree Report - Q2 2015**

This report provides a brief summary of the highlights of activity on the Lustre master branch for Q2. The full details of landings can be seen at <http://tinyurl.com/wcgit>.

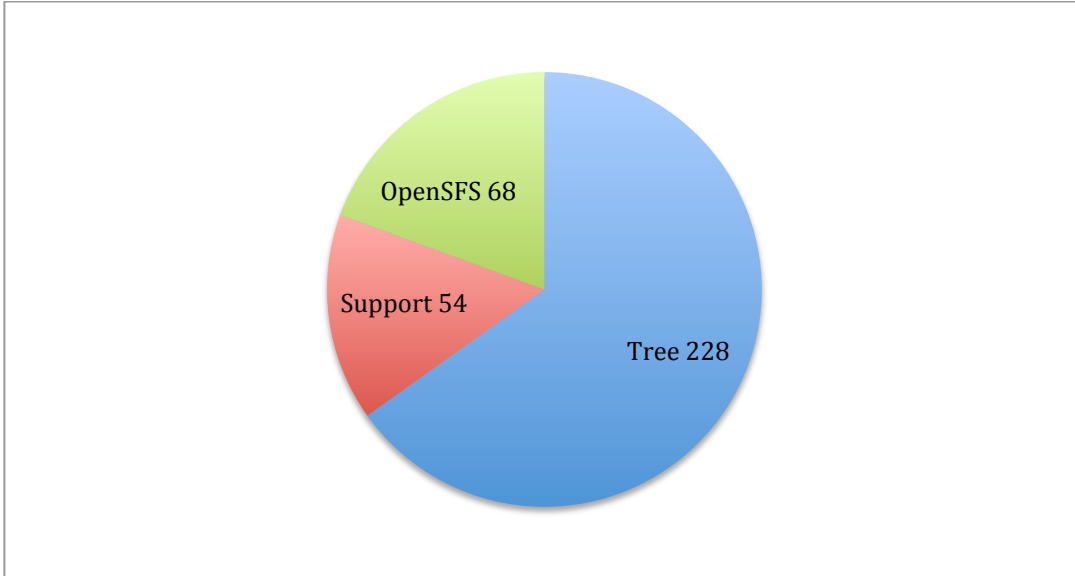
### **Landings By Organization**



These are just straight totals of the number of landings made to master during the quarter broken down by the organization. Contributions from outside Intel are broken down by the contributing engineer's community affiliation.



### Landings By Contract



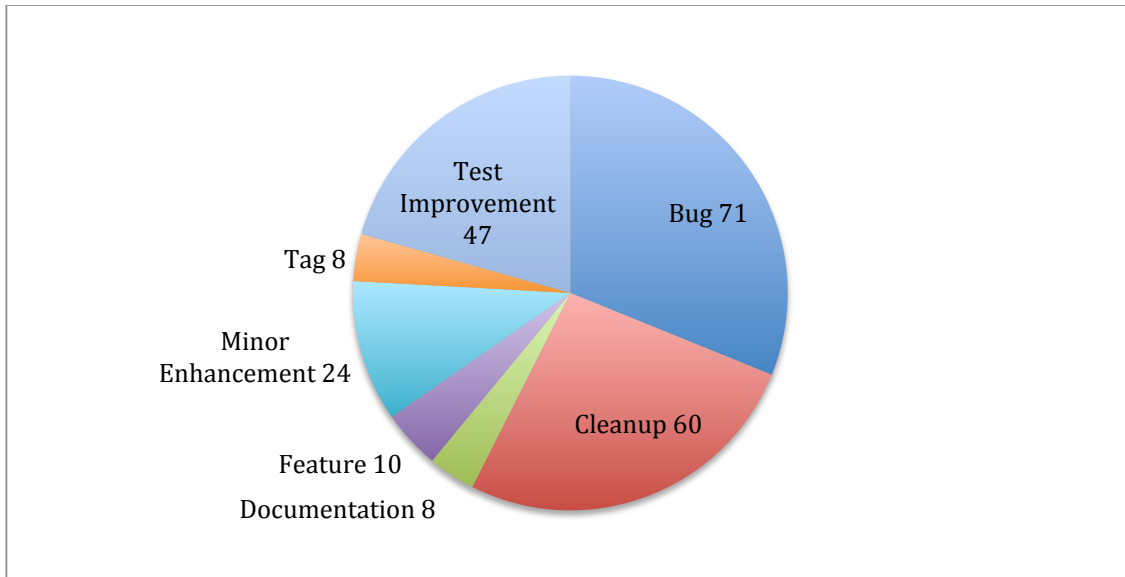
**OpenSFS NRE:** Landing of work funded by the OpenSFS-Intel NRE contract

**Support:** Landing of work funded by Intel support contracts

**Intel Funded/Open SFS Tree:** Landing of work not covered by other contracts. This work is partially funded by the OpenSFS-Intel Lustre Tree contract and otherwise covered by Intel.



### **Intel Funded/OpenSFS Tree Contract Landings by Type**



**Bug:** Correcting Lustre code in response to a defect discovered by Intel or an unsupported organization

**Cleanup:** Improvements to Lustre code to aid future maintenance. This includes reformatting code and deleting unused/obsolete code.

**Documentation:** Improvements to Lustre documentation (including internal code documentation)

**Feature:** Enhancing Lustre to provide new functionality not funded by other NRE contracts

**Minor Enhancement:** Enhancing Lustre to provide minor new capabilities e.g. supporting new kernels, etc

**Tag:** Creation of git tag for testing purposes

**Test Improvement:** Improvements made to Lustre tests (fixed flaws in the tests that can result in false failures, adding new tests, etc)



## **Quality Metrics**

The below report shows a summary of testing results from maloo.

Note that many test failures are due to issues with the testing environment or the test scripts themselves, rather than bugs in Lustre.

This report can be generated dynamically at <https://testing.hpdd.intel.com/reports> and the individual details can be drilled into and mapped to issues in JIRA.

Tests highlighted in red have either declined compared to the previous revision or else are new tests with at least one failure.

Tests highlighted in orange have one or more failures but an improved pass rate compared to the prior revision.

Tests highlighted in green passed all test runs.

Note that runracer test suite was renamed to racer and liblustre testing was suspended because this code has been deprecated.



Pass rate report for lustre-release - master

	2.7.4 626074 2014-08-17	2.7.62 968024 2014-04-09	2.7.91 819079 2014-03-28	2.8.94 867774 2014-02-09	2.8.93 834863 2014-01-27	2.8.92 475707 2013-01-02	2.8.91 544199 2014-12-05	2.8.90 729132 2014-11-08	2.8.84 346604 2014-10-11	2.8.83 780088 2014-09-26	2.8.82 644050 2014-08-30	2.8.80 804624 2014-07-11	2.8.79 302079 2014-06-18	2.8.68 216429 2014-04-19	2.8.67 488208 2014-03-19	2.8.66 420046 2014-02-26	2.8.65 399441 2014-02-03	2.8.64 216418 2014-01-11	2.8.63 451021 2014-01-01	2.8.62 480407 2013-12-02	2.8.61 148926 2013-11-06	2.8.60 805011 2013-11	
Provisioning-1																							
Provisioning-2																							
clean_post_upgrade																							
clean_pre_upgrade																							
conf-sanity	2/10	2/10	1/3	0/12	3/10	3/11	2/11	2/8	1/6	2/7	4/11	1/7	0/8	1/4	2/7	1/4	2/7	0/9	2/6	1/6	7/7		
fsanity	10/10	10/10	3/3	11/11	8/9	10/10	11/11	8/8	6/6	6/6	11/11	7/7	8/8	4/4	6/6	4/4	7/7	6/6	6/6	6/6	7/7		
large-scale	9/10	8/10	2/3	10/11	7/8	8/9	9/10	6/7	5/5	5/5	9/9	6/6	7/7	3/3	5/5	3/3	5/6	2/3	4/5	4/5	3/4		
fsck							0/8	0/7	0/5	0/6	0/9	1/6	1/7	0/3	1/6	0/3	2/6	1/7	1/5	4/5	4/5		
liblustre																							
inet-selftest	7/10	6/10	2/3	8/11	6/9	6/10	7/11	5/8	5/6	6/6	9/11	6/7	7/8	3/4	5/6	2/4	6/7	3/4	5/6	6/6	6/6		
lustre-initialization-1	11/12	11/12	3/13	14/15	12/13	13/13	13/14	11/12	8/10	10/12	12/14	8/9	8/9	4/5	9/9	4/4	6/6	8/9	8/9	10/10	6/6	1/1	
lustre-initialization-10																							
lustre-initialization-11																							
lustre-initialization-12																							
lustre-initialization-13																							
lustre-initialization-14																							
lustre-initialization-15																							
lustre-initialization-16																							
lustre-initialization-2	7/7	6/6	3/3	10/10	9/9	13/13	12/12	9/9	7/7	8/8	10/10	5/5	8/8	4/4	6/6	4/4	4/4	8/8	8/8	10/10	5/5	1/1	
lustre-initialization-3	3/3	4/4	1/1	5/5	8/8	5/5	5/5	6/6	4/4	6/6	4/4	3/3	3/3	3/3	4/4	1/1	2/2	7/7	5/5	4/4	1/1	1/1	
lustre-initialization-4	3/3	1/1	1/1	5/5	5/5	3/3	3/3	2/2	1/1	3/3	3/3												
lustre-initialization-5	1/1	1/1		4/4	2/2	3/3	2/2	2/2		1/1								1/1	2/2	2/2	1/1	1/1	
lustre-initialization-6	1/1	1/1		2/2	2/2	1/1	1/1	1/1		1/1								1/1	2/2	2/2	1/1	1/1	
lustre-initialization-7	1/1			1/1	1/1		1/1											1/1	1/1	1/1	1/1	1/1	
lustre-initialization-8	1/1																	1/1	1/1	1/1	1/1	1/1	
lustre-initialization-9	1/1																	1/1	1/1	1/1	1/1	1/1	
lustre-rync-test	9/10	9/10	2/3	10/11	8/9	9/10	10/11	5/8	6/6	6/6	10/11	7/7	8/8	3/4	5/6	4/4	6/7	4/5	6/6	6/6	7/7		
mds-survey	8/10	8/10	2/3	9/11	7/8	7/8	9/10	6/7	5/5	5/5	8/8	6/6	6/7	3/3	5/5	3/3	6/6	3/3	5/5	5/5	4/4		
metadatas-updates	1/10	1/10	1/3	1/11	1/8	2/9	1/10	1/7	0/5	1/5	3/9	1/6	1/7	0/3	1/5	0/3	2/6	0/3	1/5	5/6	5/5		
mmp	8/11	9/11	2/3	13/14	9/11	10/12	10/12	8/10	6/7	5/8	9/10	5/9	7/8	3/4	5/9	3/4	5/7	3/5	5/6	6/7	6/6	0/1	
node-provisioning-1	12/13	12/12	13/13	15/15	13/13	13/14	14/16	12/12	10/11	12/12	14/14	9/9	9/9	5/6	9/9	4/6	6/6	9/9	9/9	10/11	6/6	1/1	
node-provisioning-10																							
node-provisioning-11																							
node-provisioning-12																							
node-provisioning-13																							
node-provisioning-14																							
node-provisioning-15																							
node-provisioning-16																							
node-provisioning-2	7/7	6/6	3/3	10/10	9/9	13/13	12/12	9/9	7/7	9/9	10/10	5/5	8/8	4/4	6/6	4/4	4/4	8/8	8/8	10/10	5/5	1/1	
node-provisioning-3	3/3	4/4	1/1	5/5	8/8	5/5	5/5	6/6	4/4	6/6	4/4	3/3	3/3	3/3	4/4	1/1	2/2	7/7	5/5	4/4	1/1	1/1	
node-provisioning-4	3/3	1/1	1/1	5/5	5/5	3/3	3/3	2/2	1/1	3/3	3/3						2/2	1/1	2/2	2/2	1/1	1/1	
node-provisioning-5	1/1	1/1		4/4	2/2	3/3	2/2	2/2		1/1							1/1	2/2	2/2	1/1	1/1	1/1	
node-provisioning-6	1/1	1/1		2/2	2/2	1/1	1/1	1/1		1/1								1/1	2/2	2/2	1/1	1/1	
node-provisioning-7	1/1			1/1	1/1		1/1											1/1	1/1	1/1	1/1	1/1	
node-provisioning-8	1/1																	1/1	1/1	1/1	1/1	1/1	
node-provisioning-9	1/1																	1/1	1/1	1/1	1/1	1/1	
obdfilter-survey	8/10	8/10	2/3	8/11	7/8	8/9	6/10	5/7	5/5	5/5	9/9	6/6	7/7	3/3	5/5	3/3	6/6	3/3	5/5	5/5	4/4		
ost-pools	8/10	8/10	3/3	9/11	5/9	5/10	5/11	4/8	6/6	5/6	10/11	6/7	7/8	3/4	5/6	4/4	7/7	3/4	6/6	6/6	7/7		
parallel-scale	7/10	6/10	1/3	7/11	6/8	7/8	7/10	6/7	5/5	4/5	8/9	1/6	1/7	0/3	1/5	0/3	5/6	0/3	3/5	2/5	3/4		
parallel-scale-efsv3	8/10	8/10	2/3	7/11	6/8	6/9	8/10	6/7	5/5	4/5	9/9	3/6	2/7	1/3	1/5	1/3	1/6	0/3	2/6	2/5	2/4		
parallel-scale-efsv4	7/10	7/10	2/3	8/11	6/8	6/8	8/10	6/7	5/5	5/5	9/10	4/6	2/7	1/3	1/5	1/3	1/5	0/3	2/5	3/5	3/4		
performance-sanity	8/10	8/10	2/3	9/11	7/8	8/9	9/10	6/7	5/5	5/5	9/9	6/6	7/7	3/3	5/5	3/3	5/6	2/3	4/5	4/5	3/4		
posix	8/10	8/10	2/3	8/11	6/8	6/9	8/10	6/7	5/5	5/5	9/9	6/6	7/7	3/3	5/5	3/3	5/6	3/3	4/5	4/5	4/4		
racet	9/10	9/10	3/3	7/11	3/9	9/10	9/10	6/7	3/5	5/6	6/9	4/6	4/7	0/3	1/6	1/3	4/6	4/5	2/6	0/6	0/6		
recovery-double-scale	0/1	0/1		0/3	0/3	0/3	0/2	0/3	0/2	0/3	0/1	0/1						0/2	0/2	0/1		1/1	
recovery-mds-scale	0/1	0/1		0/3	0/3	0/3	0/2	0/3	0/2	0/3	0/1	0/1						0/2	0/2	0/4		1/1	
recovery-random-scale	1/1	1/1		3/3	3/3	3/3	1/2	2/3	2/2	3/3	0/1	1/1						2/2	1/2	0/4		1/1	
recovery-small	8/11	9/11	2/3	11/14	8/12	9/14	8/13	8/11	6/8	7/9	9/12	6/8	6/6	4/5	9/10	4/4	5/7	8/9	5/6	6/7	7/7	0/1	
replay-dual	11/11	11/11	2/3	12/14	2/11	0/13	1/12	1/10	0/7	0/8	9/10	6/7	7/7	3/3	7/8	2/3	5/6	4/6	4/7	5/6	4/5	1/1	
replay-ost-single	10/11	10/11	3/3	12/14	10/12	12/14	11/13	9/11	7/8	7/9	9/12	7/8	8/8	4/4	8/9	3/4	7/7	6/9	6/8	5/7	7/7	0/1	
replay-single	7/11	9/11	2/3	9/14	9/13	10/14	9/13	6/11	5/8	3/10	7/12	3/8	7/8	3/4	6/10	4/4	7/7	6/7	6/8	5/7	7/7	0/1	
replay-vbr	10/11	9/11	3/3	12/14	4/11	4/12	9/12	8/10	5/7	7/8	3/10	5/7	7/7	2/3	7/8	3/3	4/6	2/6	1/7	5/6	5/5	0/1	
runracer																							
unitests	10/10	10/10	3/3	11/11	11/11	11/11	11/11	9/9	6/6	7/8	11/11	7/7	8/8	4/4	7/7	4/4	7/7	6/6	6/6	6/6	8/8		
sanity	4/10	4/10	3/3	3/11	3/11	3/11	3/11	1/9	3/6	1/8	3/11	2/7	3/8	2/4	4/7	3/4	4/7	4/6	4/6	4/6	5/8		
sanity-benchmark	9/10	9/10	3/3	10/11	9/9	10/10	10/10	7/7	5/5	6/7	9/9	5/6	7/7	3/3	5/6	3/3	4/6	3/7	4/5	5/6	4/5		
sanity-bsm	6/10	7/10	0/3	9/11	9/10	9/10	9/11	8/8	6/6	6/7	8/10	6/7	6/6	4/4	6/7	3/4	5/7	4/7	1/1	0/1	2/2		
sanity-fsck	5/10	5/10	0/3	7/11	6/10	6/10	5/11	4/8	4/6	2/8	5/10	4/7	1/8	4/4	6/7	3/4	6/7	6/7	5/6	6/6	7/7		



## **Work Completed**

The focus for Q4 2014 was feature landing for 2.8.

Release testing was completed according to the 2.8 test plan on the following tags – 2.7.51, 2.7.52, 2.7.53, 2.7.54 and 2.7.55. A number of bugs were found and fixed as a result.

Multiple Modify RPCs (LU-5319).

CLIO Simplification (LU-3259).

DNE2 (LU-3534).

## **Work In Progress**

Support for RHEL 7.1 servers – a number of regressions appeared in RHEL 7.x server tests since switching from RHEL 7.0 to RHEL 7.1.

UID/GID Mapping (LU-3291).

NRS Delay (LU-6283).

Cleanup for upstream Lustre client.

Peter Jones  
HPDD, Intel  
July 7<sup>th</sup> 2015



## **Appendix A: Timeline for Lustre 2.8**

Release criterion is zero issues remaining on the Lustre 2.8 unresolved issues filter in JIRA - [https://jira.hpdd.intel.com/issues/?jql=fixVersion = 'Lustre 2.8.0' AND project = LU AND resolution = Unresolved ORDER BY priority DESC](https://jira.hpdd.intel.com/issues/?jql=fixVersion%20=%20'Lustre%202.8.0'%20AND%20project%20=%20LU%20AND%20resolution%20=%20Unresolved%20ORDER%20BY%20priority%20DESC)

The timeline for 2.8 can be found at [http://wiki.opensfs.org/Lustre 2.8.0](http://wiki.opensfs.org/Lustre_2.8.0)