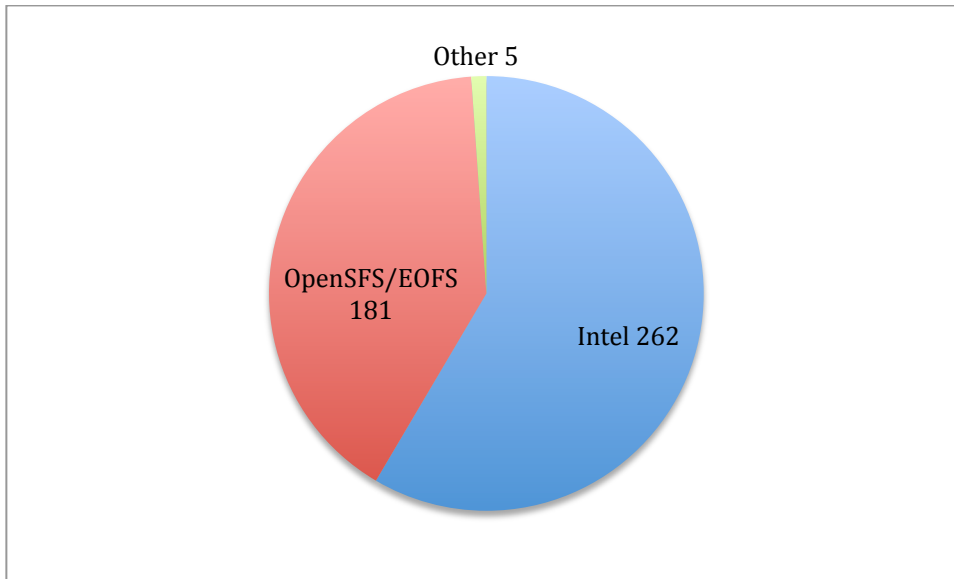




## **OpenSFS-Intel Lustre Tree Report - Q3 2013**

This report provides a brief summary of the highlights of activity on the Lustre master branch for Q3 2013 (and 2.5 specific work from Q2 2013 omitted from the Q2 report). The full details of landings can be seen at <http://tinyurl.com/wcgit>.

### **Landings By Organization**

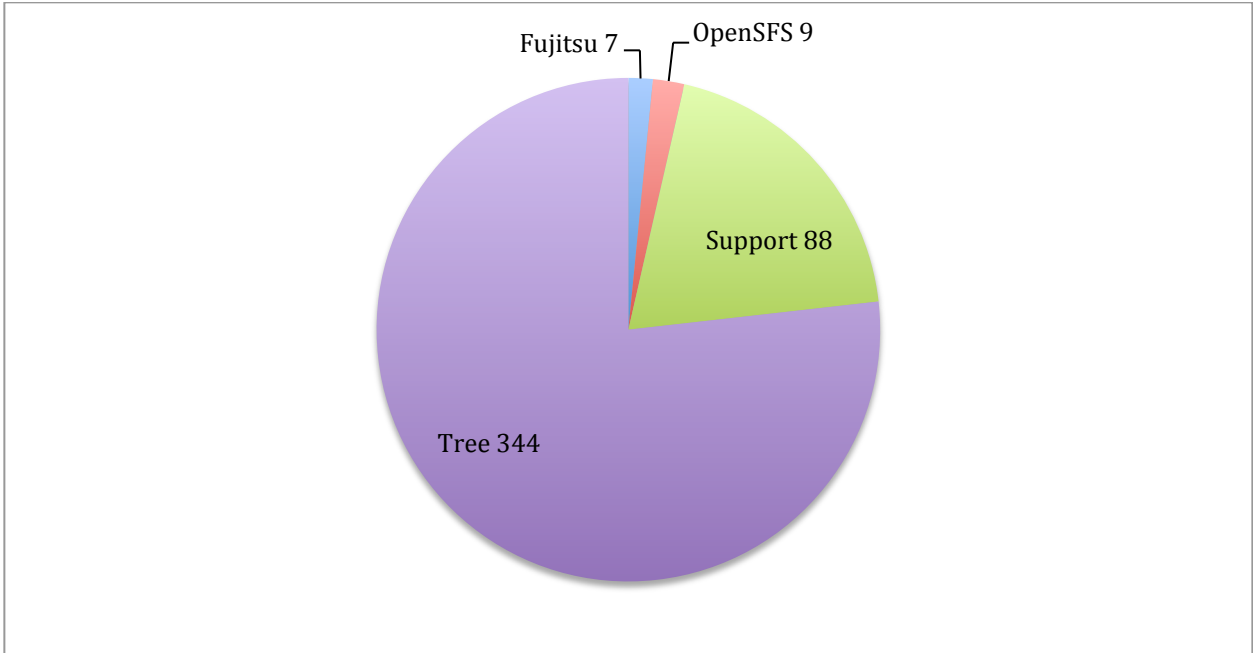


These are just straight totals of the number of landings made to master during the quarter broken down by the organization. Contributions from outside Intel are broken down by the contributing engineer's community affiliation.

Note that the number of landings may be lower than the number of git commits because it excludes landings that were subsequently reverted within the same cycle, thus reinstating the original code.



### Landings By Contract



**Fujitsu:** Landing of work contributed by Fujitsu

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

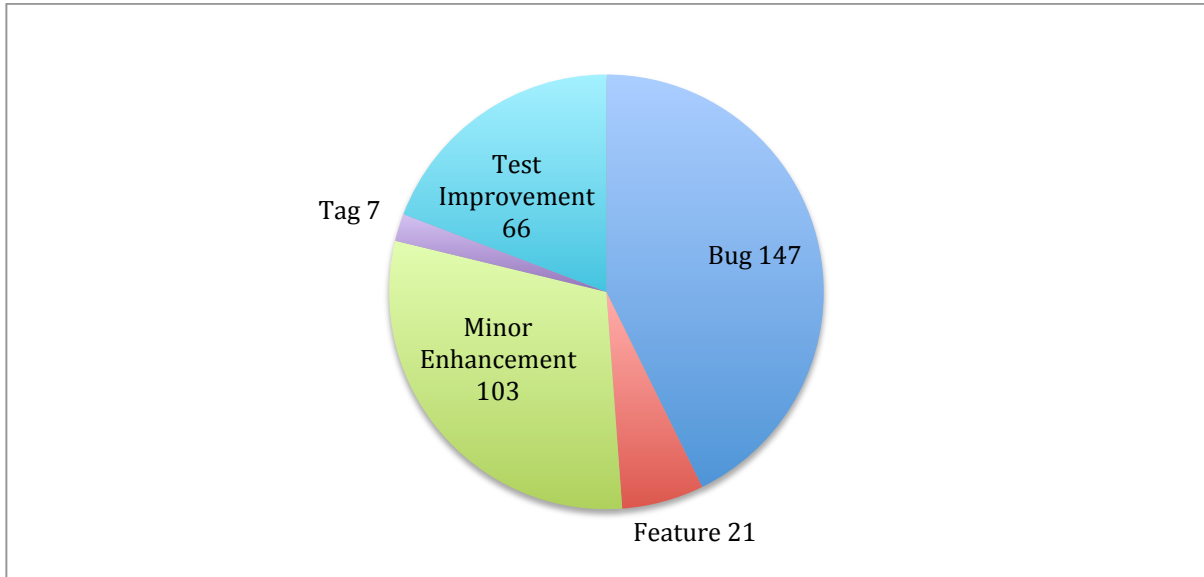
**Support:** Landing of work funded by Intel support contracts

**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

**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)

**Third Party Landing:** Performing inspections and testing on contribution from organization without support arrangements in place.



## **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://maloo.whamcloud.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

	2.493 165d23 2013-09-24	2.492 168d43 2013-09-03	2.491 169d23 2013-08-17	2.493 169d02 2013-07-31	2.491 169d3d4 2013-08-21	2.490 164d44 2013-05-15	2.385 160d3F 2013-06-07	2.384 159d4e1 2013-04-13	2.383 157d8a 2013-03-22	2.382 157d78 2013-03-06	2.381 1567d23 2013-02-10	2.389 1677d29 2013-01-19	2.388 1677d25 2012-12-31	2.386 1672d3 2012-11-19	2.384 1616d3 2012-10-29	2.383 159d23 2012-10-08	2.293 1611d97 2012-08-16	2.292 160d48 2012-07-30	2.291 160d76 2012-07-19	2.290 159d49 2012-07-10	2.289 164d1d 2012-07-02	2.287 159d05 2012-06-19			
clean_post_upgrade																							1/1		
clean_pre_upgrade																							1/1		
conf-sanity	4/6	5/8	5/7	2/3	3/4	5/9	2/6	1/2	1/1	2/4	1/1	2/5	3/8	1/3	1/1					6/6	9/10	4/6	10/10	6/6	6/6
insanity	5/6	7/8	7/7	3/3	3/4	9/9	6/6	2/2	1/1	4/4	1/1	3/5	7/7	3/3	1/1					6/6	10/10	6/6	10/10	6/6	6/6
large-scale	7/7	6/6	6/6	2/2	1/4	6/7	6/6	2/2	1/1	4/4	1/1	3/5	7/7	3/3	1/1					6/6	6/6	4/6	10/10	6/6	6/6
fsck	4/5	5/6	5/6	1/2	1/4	3/7	5/6	0/2	1/1	3/4	0/1	5/5	7/8	2/3	0/1					2/6	2/10	2/6	3/10	4/6	1/6
liblustre																									
intel-selftest	8/8	8/8	7/7	3/3	4/4	9/9	6/6	2/2	1/1	3/4	1/1	5/5	7/7	3/3	1/1					6/6	6/6	5/6	10/10	6/6	6/6
lustre-rsync-test	4/6	6/8	5/7	2/3	3/4	8/8	4/5	1/2	1/1	3/4	1/1	3/5	6/7	2/3	1/1					5/5	6/6	4/5	7/8	5/5	5/5
mdu-survey	4/5	5/6	6/6	2/2	4/4	5/5	4/4	2/2	1/1	3/3	1/1	5/5	7/7	3/3	1/1					5/5	3/7	3/4	7/7	4/4	4/4
metadata-updates	4/5	5/6	6/6	2/2	3/4	7/7	6/6	2/2	1/1	4/4	1/1	3/5	7/7	2/3	1/1					6/6	10/10	5/6	10/10	6/6	6/6
mmp	7/9	8/9	7/8	3/3	4/5	11/12	6/7	2/2	1/1	4/4	1/1	3/6	7/9	3/3	1/1					6/6	7/10	5/8	10/14	5/8	6/7
obdfilter-survey	7/7	6/6	6/6	2/2	2/4	7/7	5/6	1/2	1/1	4/4	1/1	3/5	7/7	2/3	1/1					1/6	6/9	5/6	10/10	6/6	6/6
ost-pools	4/6	7/8	7/7	3/3	3/4	6/7	6/6	1/2	1/1	4/4	0/1	3/5	3/7	1/3	1/1					3/6	9/10	5/6	10/10	6/6	6/6
parallel-scale	0/5	0/6	0/6	0/2	0/4	2/7	3/6	0/2	0/1	4/4	1/1	2/5	4/7	2/3	0/1					5/6	6/10	4/6	7/10	6/6	5/6
parallel-scale-refs0	7/9	5/9	4/6	2/2	3/4	6/7	6/6	2/2	1/1	4/4	1/1	1/5	7/7	1/3	0/1					4/5	3/8	2/5	6/9	4/5	4/5
parallel-scale-refs4	4/10	3/6	3/6	2/2	1/4	4/7	3/6	2/2	1/1	1/4	0/1	2/5	7/7	2/2	1/1					5/5	3/7	1/4	7/9	0/5	1/5
performance-sanity	5/5	6/6	6/6	2/2	2/4	5/7	5/6	2/2	1/1	4/4	1/1	2/5	6/7	3/3	1/1					6/6	7/10	4/6	8/10	6/6	6/6
posix	4/6	1/6	1/6	0/2	1/4	5/7	4/6	2/2	1/1	1/4	0/1	3/5	5/7	0/2	1/1					3/4	2/6	0/3	0/7	0/4	
racer	2/5	4/6	4/6	2/2	2/4	6/7	5/6	2/2	1/1	2/4	1/1	2/5	3/7	2/3	1/1					2/6	6/10	5/6	10/10	5/6	6/6
recovery-double-scale	0/3	1/1	1/1		1/1	1/5	1/1					0/1	0/2									0/2	0/4	0/2	1/1
recovery-mdu-scale	0/3	0/1	0/1		0/1	1/7	0/1	0/2				0/1	0/2									0/2	0/4	0/2	1/1
recovery-random-scale	0/3	0/1	0/1		1/1	1/3	0/1	0/2				0/1	0/2									0/2	0/4	0/2	1/1
recovery-small	7/9	8/9	8/8	2/3	3/5	12/12	5/7	1/2	1/1	3/4	1/1	2/6	4/6	2/3	1/1					6/6	9/10	5/8	10/14	5/8	6/7
replay-dual	2/8	2/7	2/7	2/2	3/5	7/10	7/7	2/2	1/1	3/4	1/1	1/6	5/6	2/3	1/1					6/6	8/10	5/8	10/14	5/8	6/7
replay-ost-single	4/9	7/8	7/8	3/3	3/5	8/12	5/7	2/2	1/1	3/4	0/1	3/6	6/6	2/3	0/1					6/6	10/10	6/8	10/14	5/8	6/7
replay-single	4/9	6/8	6/8	2/3	3/5	7/12	5/7	1/2	1/1	2/4	1/1	3/6	5/6	1/3	0/1					6/6	7/10	4/8	0/14	6/7	5/7
replay-vbr	1/8	2/7	2/7	2/2	3/5	9/10	6/7	2/2	1/1	4/4	1/1	3/6	7/6	3/3	1/1					6/6	9/10	6/8	10/14	5/8	6/7
runracer																									
runtests	6/6	8/8	7/7	4/4	3/4	7/9	6/6	1/2	1/1	5/5	1/1	3/5	8/8	3/3	1/1					6/6	9/10	5/6	10/10	7/7	8/8
sanity	1/6	3/8	1/7	1/4	2/4	4/9	1/6	1/2	1/1	3/5	1/1	0/5	0/6	0/3	0/1					5/6	8/10	2/7	4/10	1/7	3/8
sanity-benchmark	3/5	4/6	4/6	2/2	2/4	4/7	5/6	2/2	0/1	1/5	0/1	5/5	8/8	2/3	1/1					6/6	9/10	5/6	10/10	6/6	6/7
sanity-hsm	1/1	1/2	0/1	0/1		2/2																			
sanity-llck	5/6	7/8	6/7	3/3	3/4	3/5																			
sanity-quota	5/6	5/8	6/7	3/3	2/4	8/9	5/6	2/2	1/1	3/4	1/1	3/5	3/7	1/3	0/1					6/6	9/10	5/6	10/10	6/6	6/6
sanity-scrub	3/5	5/6	5/6	2/2	3/4	4/5														5/5	2/2				
sanity-sec	5/6	7/8	7/7	3/3	3/4	8/8	5/5	2/2	1/1	4/4	1/1	3/5	7/7	3/3	1/1					5/5	9/9	5/5	8/8	5/5	5/5
sanityn	5/6	7/8	6/7	2/3	2/4	6/11	4/12	1/2	1/1	3/4	1/1	3/5	7/8	2/3	1/1					6/6	9/10	5/6	10/10	6/6	6/6
sgodd-survey																									



## **Work Completed**

The main areas of focus for Q3 2013 were landing features and completing release testing for Lustre 2.5.

Release testing was completed according to the 2.5 test plan on the following tags – 2.4.52, 2.4.53, 2.4.90, 2.4.91, 2.4.92, and 2.4.93. A number of bugs were found and fixed as a result.

The remaining work to complete HSM was landed (LU-3608).

Landed Extended Attribute Cache (LU-3869); LNet Router Priority Parameter (LU-2934); Shrink ldlm\_poold workload (LU-2924); and Endianness fixes (LU-3221).

Support for SLES11 SP3 was landed (LU-3567).

Support for 3.7 kernel servers was landed (LU-1812).

Support for 3.8 kernel clients (LU-2850) was landed.

GSSAPI was enabled by default (LU-3490).

## **Work In Progress**

Further patches have been landed to match format of Lustre client in the 3.11 Linux kernel (LU-1346/2800).

Support for 3.9 kernel (LU-3079), 3.10 kernel (LU-3675/3319) and 3.11 kernel (LU-3974).

Peter Jones  
HPDD, Intel  
October 2<sup>nd</sup> 2013



## **Appendix A: Timeline for Lustre 2.5**

Release criterion is zero issues remaining on the Lustre 2.5 unresolved issues filter in JIRA - [https://jira.hpdd.intel.com/issues/?jql=fixVersion = "Lustre 2.5.0" AND project = LU AND resolution = Unresolved ORDER BY priority DESC](https://jira.hpdd.intel.com/issues/?jql=fixVersion%20=%20%22Lustre%202.5.0%22%20AND%20project%20=%20LU%20AND%20resolution%20=%20Unresolved%20ORDER%20BY%20priority%20DESC)

The timeline for 2.5 can be found at [http://wiki.opensfs.org/Lustre 2.5.0](http://wiki.opensfs.org/Lustre_2.5.0)