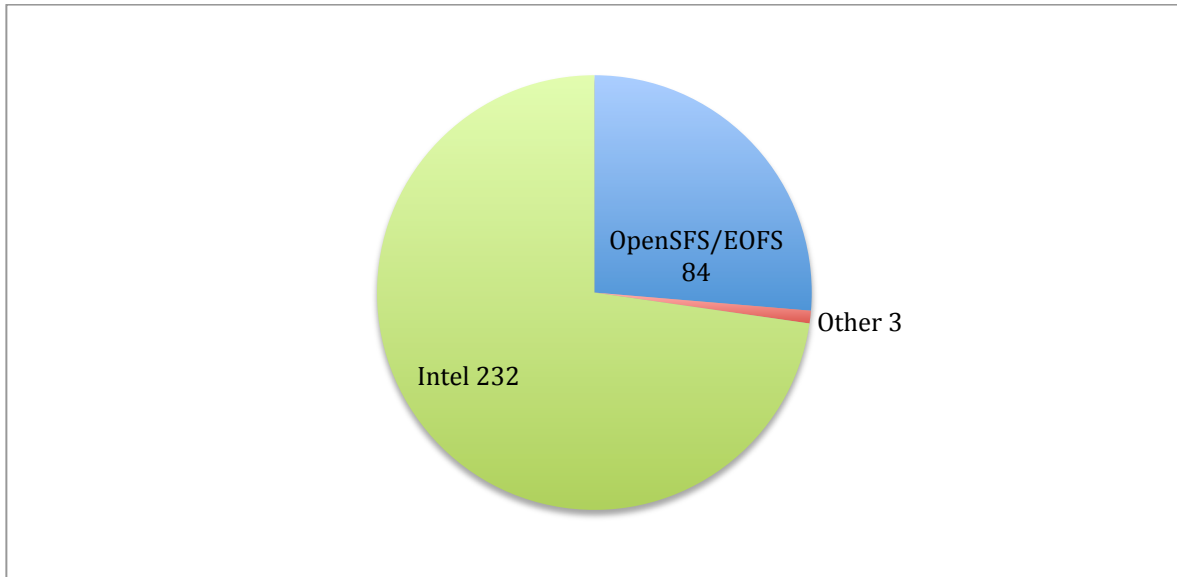## OpenSFS-Intel Lustre Tree Report – Q3 2014

This report provides a brief summary of the highlights of activity on the Lustre master branch for Q3. The full details of landings can be seen at http://tinyurl.com/wcgit .
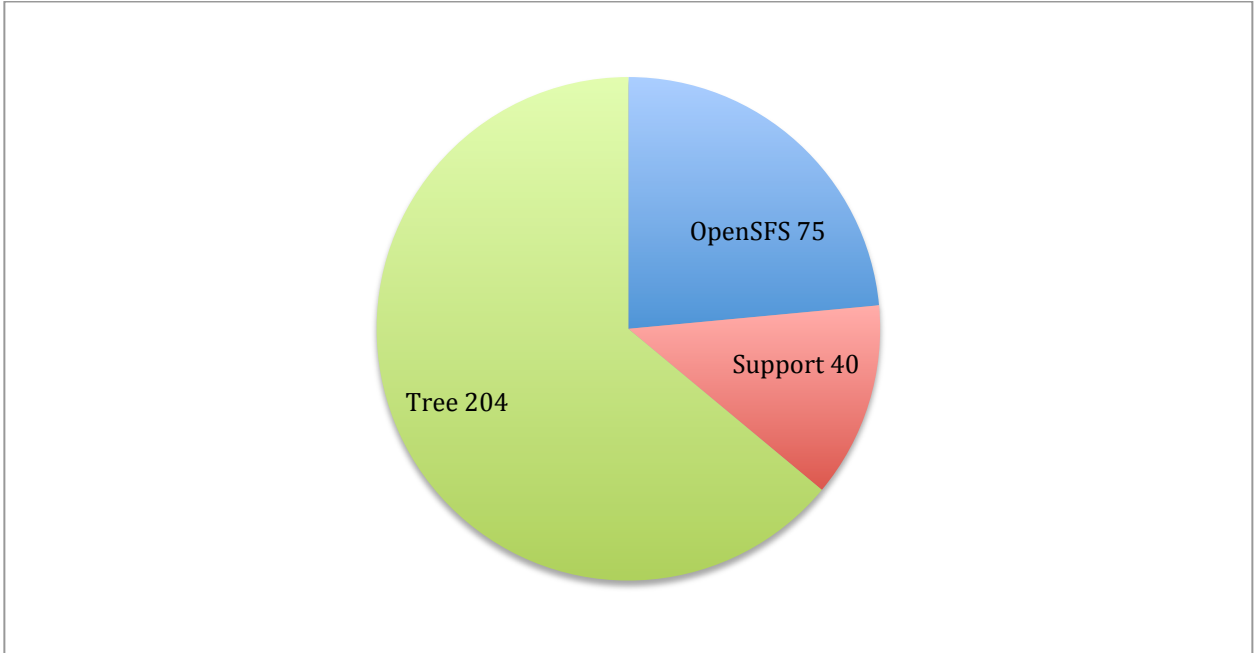
Landings By Organization

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.

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Landings By Contract

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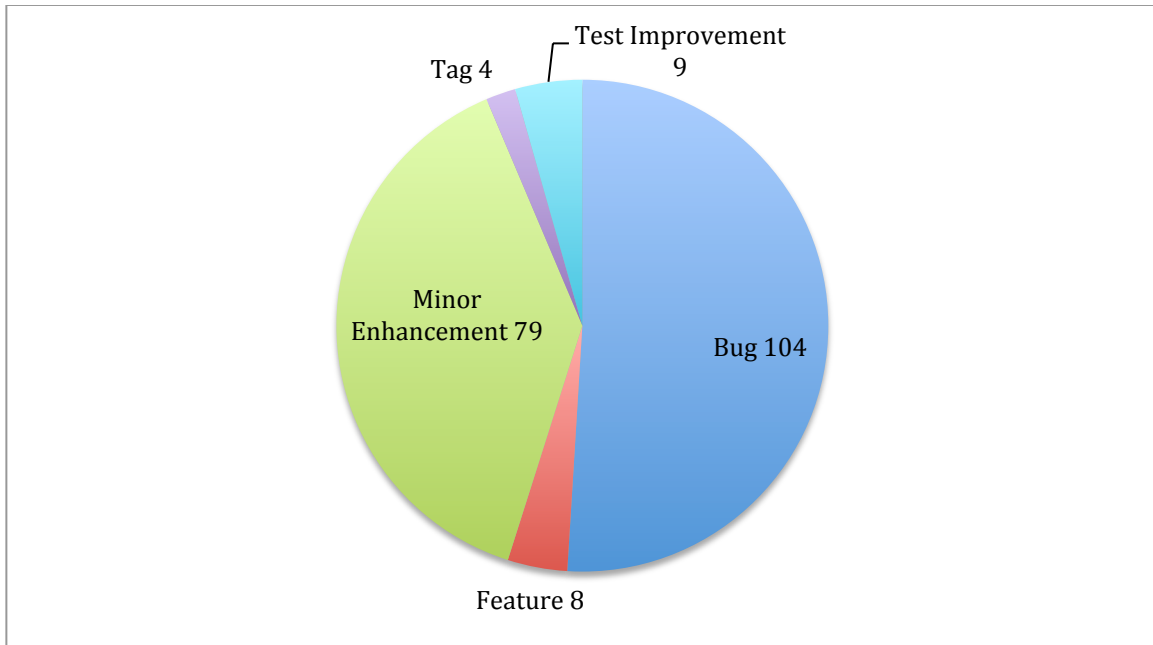**Support**: Landing of work funded by Intel support contracts
Intel Funded/Open SFS Tree: Landing of work not covered by other contracts.
This work is partially funded by the OpenSFS-Intel Lustre Tree contract and
otherwise covered by Intel.

Intel Funded/OpenSFS Tree Contract Landings by Type

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

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://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

	2.6.53 f9cad98 2014-09-26	2.6.52 64e6e56 2014-08-30	2.6.50 0ae652a 2014-07-11	2.5.59 28f2ff9 2014-05-15	2.5.58 21da42e 2014-04-19	2.5.57 c6853f5 2014-03-19	2.5.56 43fbefb 2014-02-25	2.5.55 39964a1 2014-02-03	2.5.54 2166e16 2014-01-11	2.5.53 ef1d121 2014-01-01	2.5.52 48cbaf7 2013-12-02	2.5.51 14693fc 2013-11-06	2.6.50 b5fb1fd 2013-10-11	2.4.93 1a5dc23 2013-09-24	2.4.92 1686463 2013-08-03	2.4.91 caa9228 2013-08-17	2.4.53 55605c6 2013-07-31	2.4.51 a5a3cb4 2013-06-21	2.4.50 04ec54f 2013-05-15	2.3.65 19043ff 2013-05-07	2.3.64 c59dee1 2013-04-13	2.3.63 f3ef9ea 2013-03-22
clean_post_upgrade																						
clean_pre_upgrade																						
conf-sanity	2/7	4/11	1/7	0/8	1/4	2/7	1/4	2/7	0/9	2/6	1/6	7/7		4/6	5/8	5/7	2/3	3/4	5/9	2/6	1/2	1/1
insanity	6/6	11/11	7/7	8/8	4/4	6/6	4/4	7/7	6/6	6/6	6/6	7/7		5/6	7/8	7/7	3/3	3/4	9/9	6/6	2/2	1/1
large-scale	5/5	9/9	6/6	7/7	3/3	5/5	3/3	5/6	2/3	4/5	4/5	3/4		7/7	6/6	6/6	2/2	1/4	6/7	6/6	2/2	1/1
lfsck	0/6	0/9	1/6	1/7	0/3	1/6	0/3	2/6	1/7	1/5	4/5	4/5		4/5	5/6	5/6	1/2	1/4	3/7	5/6	0/2	1/1
liblustre																						
lnet-selftest	6/6	9/11	8/7	7/8	3/4	5/6	2/4	6/7	3/4	5/6	6/6	6/6		8/8	8/8	7/7	3/3	4/4	9/9	6/6	2/2	1/1
lustre-rsync-test	6/6	10/11	7/7	8/8	3/4	5/6	4/4	6/7	4/5	6/6	6/6	7/7		4/6	6/8	5/7	2/3	3/4	8/8	4/5	1/2	1/1
mds-survey	5/5	8/8	6/6	6/7	3/3	5/5	3/3	6/6	3/3	5/5	5/5	4/4		4/5	5/6	6/6	2/2	4/4	5/5	4/4	2/2	1/1
metadata-updates	1/5	3/9	1/6	1/7	0/3	1/5	0/3	2/6	0/3	1/5	5/5	5/5		4/5	5/6	6/6	2/2	3/4	7/7	6/6	2/2	1/1
mmp	5/7	9/10	6/8	7/8	3/4	5/9	3/4	6/7	3/5	5/8	6/7	6/6	0/1	7/9	8/9	7/8	3/3	4/5	11/12	8/7	2/2	1/1
obdfilter-survey	5/5	9/9	6/6	7/7	3/3	5/5	3/3	6/6	3/3	5/5	5/5	4/4		7/7	6/6	6/6	2/2	2/4	7/7	5/6	1/2	1/1
ost-pools	5/6	10/11	8/7	7/8	3/4	5/6	4/4	7/7	3/4	6/6	6/6	7/7		4/6	7/8	7/7	3/3	3/4	8/7	6/6	1/2	1/1
parallel-scale	4/5	8/9	1/6	1/7	0/3	1/5	0/3	0/6	0/3	3/5	2/5	3/4		0/5	0/6	0/6	0/2	0/4	2/7	3/6	0/2	0/1
parallel-scale-nfsv3	4/5	9/9	3/6	2/7	1/3	1/5	1/3	1/6	0/3	2/6	2/5	2/4		7/9	5/9	4/6	2/2	3/4	6/7	6/6	2/2	1/1
parallel-scale-nfsv4	5/5	9/10	4/6	2/7	1/3	1/5	1/3	1/5	0/3	2/5	3/5	3/4		4/10	3/6	3/6	2/2	1/4	4/7	3/6	2/2	1/1
performance-sanity	5/5	9/9	6/6	7/7	3/3	5/5	3/3	5/6	2/3	4/5	4/5	3/4		5/5	6/6	6/6	2/2	2/4	5/7	5/6	2/2	1/1
posix	5/5	9/9	6/6	7/7	3/3	5/5	3/3	5/5	3/3	4/5	4/5	4/4		4/6	1/6	1/6	0/2	1/4	5/7	4/6	2/2	1/1
racer	5/6	6/9	4/6	4/7	0/3	1/6	1/3	4/6	4/5	2/5	0/6	0/6		2/5	4/6	4/6	2/2	2/4	6/7	5/6	2/2	1/1
recovery-double-scale	0/2	0/1	0/1			0/3			0/2	0/2	0/1		1/1	0/3	1/1	1/1		1/1	1/5	1/1		
recovery-mds-scale	0/2	0/1	0/1			0/3			0/2	0/2	0/4		1/1	0/3	0/1	0/1		0/1	1/7	0/1	0/1	0/2
recovery-random-scale	2/2	0/1	1/1			3/3			2/2	1/2	0/4		1/1	0/3	0/1	0/1		1/1	1/3	0/1	0/2	
recovery-small	6/8	8/12	6/8	6/8	4/5	9/10	4/4	5/7	8/9	5/8	6/7	7/7	0/1	7/9	8/9	8/8	2/3	3/5	12/12	5/7	1/2	1/1
replay-dual	6/7	9/10	8/7	7/7	3/3	7/8	2/3	5/6	4/6	4/7	5/6	4/5	0/1	2/8	2/7	2/7	2/2	3/5	7/10	7/7	2/2	1/1
replay-ost-single	7/8	8/12	7/8	8/8	4/4	8/9	3/4	7/7	6/9	6/8	5/7	7/7	0/1	4/9	7/9	7/8	3/3	3/5	8/12	5/7	2/2	1/1
replay-single	3/9	7/12	3/8	7/8	3/4	6/10	4/4	7/7	6/7	6/8	5/7	7/7	0/1	4/9	6/9	6/8	2/3	3/5	7/12	5/7	1/2	1/1
replay-vbr	6/7	3/10	5/7	7/7	2/3	7/8	3/3	4/6	2/6	1/7	5/6	5/5	0/1	1/8	2/7	2/7	2/2	2/3	9/10	6/7	2/2	1/1
runracer																						
runtests	7/7	11/11	7/7	8/8	4/4	7/7	4/4	7/7	6/6	6/6	6/6	8/8		6/6	8/8	7/7	4/4	3/4	7/9	6/6	1/2	1/1
sanity	1/7	3/11	2/7	3/8	2/4	4/7	3/4	4/7	4/6	4/6	4/6	5/8		1/6	3/8	1/7	1/4	2/4	4/9	1/6	1/2	1/1
sanity-benchmark	5/6	9/9	5/6	7/7	3/3	5/6	3/3	4/6	3/7	4/5	5/5	4/5		3/5	4/6	4/6	2/2	2/4	4/7	5/6	2/2	0/1
sanity-hsm	5/7	8/10	6/7	6/8	4/4	6/7	3/4	5/7	4/7	1/1	0/1	2/2		1/1	1/2	0/1	0/1		2/2			
sanity-lfsck	2/7	5/10	4/7	1/8	4/4	6/7	3/4	6/7	6/7	5/6	6/6	7/7		5/6	7/8	6/7	3/3	3/4	3/5			
sanity-quota	5/6	10/11	7/7	8/8	4/4	5/6	4/4	7/7	4/6	4/6	5/6	7/7		5/6	5/8	6/7	3/3	2/4	8/9	5/6	2/2	1/1
sanity-scrub	4/6	6/8	5/7	5/8	2/4	6/7	3/4	6/7	6/7	5/6	6/6	6/7		3/5	5/6	5/6	2/2	3/4	4/5	4/5		
sanity-sec	5/5	5/9	6/7	7/8	3/4	5/6	2/4	5/7	3/5	5/6	6/6	7/7		5/6	7/9	7/7	3/3	3/4	8/8	5/5	2/2	1/1
sanityn	6/7	9/11	6/7	6/8	3/4	6/7	4/4	7/7	7/7	6/6	6/6	6/7		5/6	7/8	6/7	2/3	2/4	6/11	4/12	1/2	1/1
sgpdd-survey																						

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Work Completed

The initial focus for Q3 2014 was bugfixing and release testing for Lustre 2.6 and then feature landing for 2.7 after 2.6 was declared GA.

Release testing was completed according to the 2.6 test plan on the following tags – 2.5.60 and 2.6.0-RC1. A number of bugs were found and fixed as a result.

Release testing was completed according to the 2.7 test plan on the following tags – 2.6.51, 2.6.52, and 2.6.53. A number of bugs were found and fixed as a result.

Support for 3.10 kernel (LU-3319).

Work In Progress

Support for 3.12 kernel (LU-4416).

Dynamic LNET Configuration (LU-2456).

MDT-MDT Consistency (LU-4788).

Peter Jones
HPDD, Intel
October 1st 2014

Appendix A: Timeline for Lustre 2.7

Release criterion is zero issues remaining on the Lustre 2.7 unresolved issues filter in JIRA - https://jira.hpdd.intel.com/issues/?jql=fixVersion = "Lustre 2.7.0" AND project = LU AND resolution = Unresolved ORDER BY priority DESC

The timeline for 2.7 can be found at http://wiki.opensfs.org/Lustre_2.7.0

Appendix B: Landings By Organization for Lustre 2.6

Number of commits between 2.5.50 and 2.6.0.
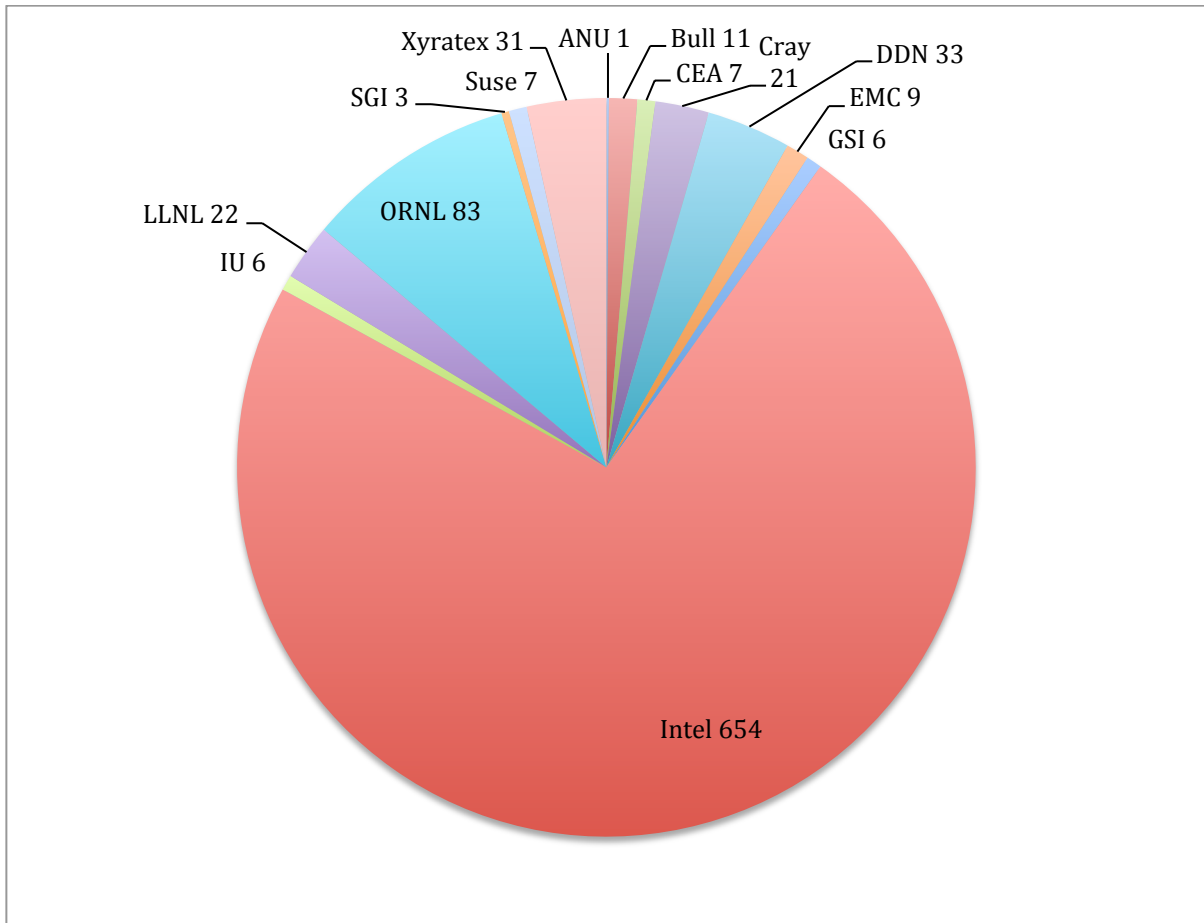
Number of Lines of code change between 2.5.50 and 2.6.0

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