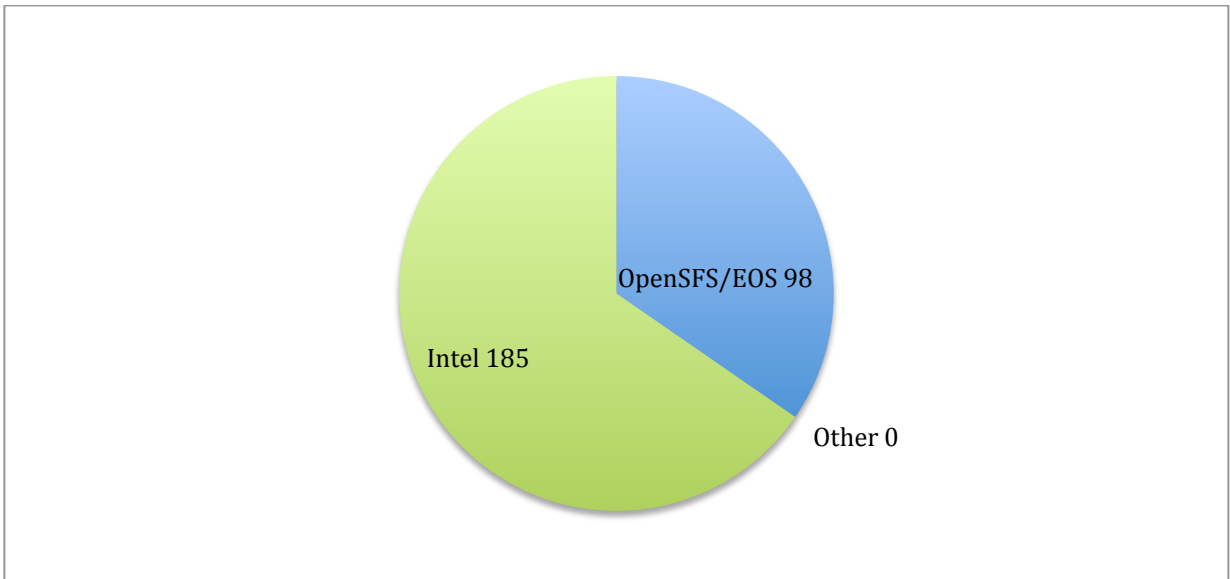




OpenSFS-Intel Lustre Tree Report - Q4 2013

This report provides a brief summary of the highlights of activity on the Lustre master branch for Q4. The full details of landings can be seen at <http://tinyurl.com/wcgit>.

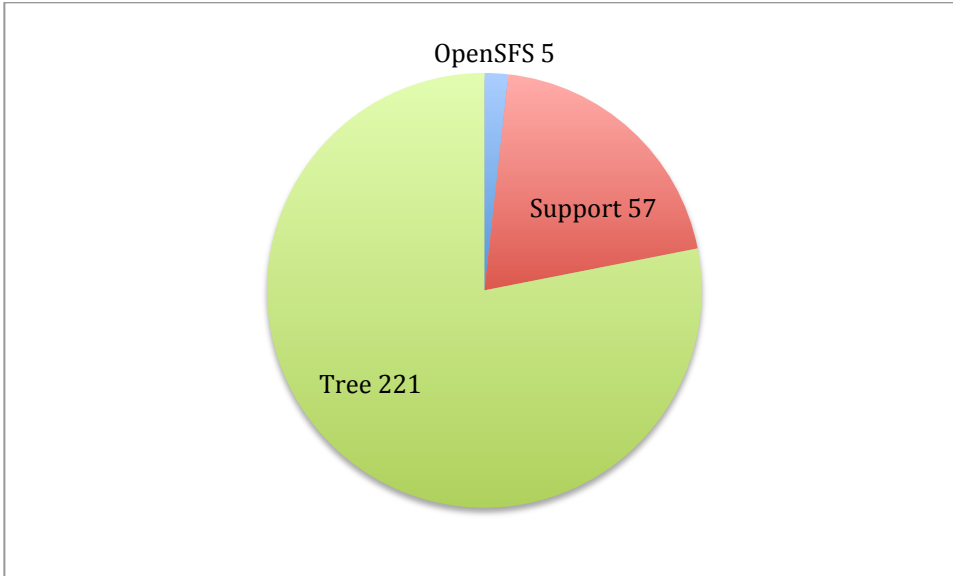
Landings By Organization



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

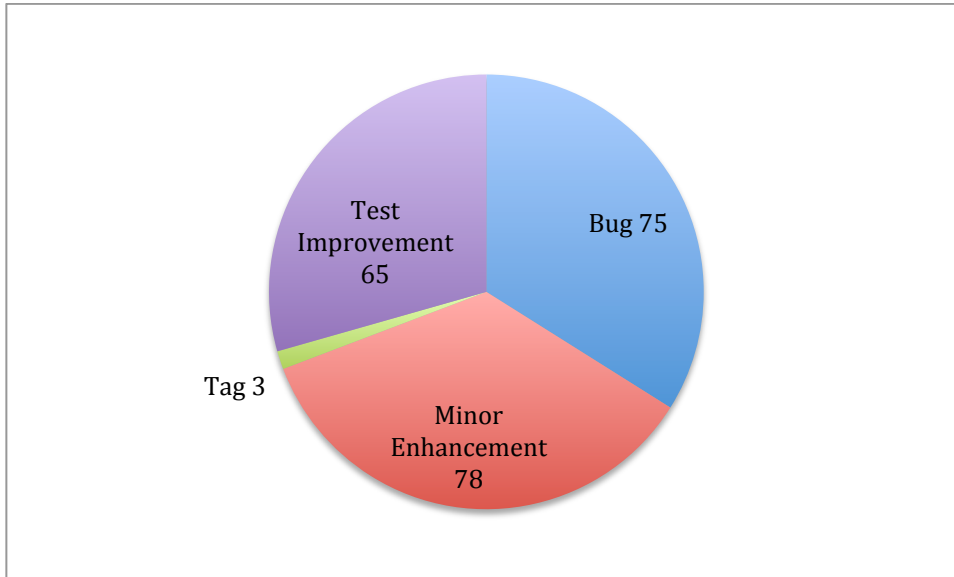
Support: Landing of work funded by Intel support contracts

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

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

| | 2.5.02 48ca7f 2015-12-02 | 2.5.01 1489fc 2015-11-06 | 2.5.00 b2b1f5 2015-10-11 | 2.4.93 1456c23 2015-09-24 | 2.4.92 1684e43 2015-09-03 | 2.4.91 ca8229 2015-08-17 | 2.4.93 556956 2015-07-31 | 2.4.91 a5a3c04 2015-06-21 | 2.4.90 04ec5af 2015-05-15 | 2.3.95 1943ff 2015-05-07 | 2.3.94 c584e41 2015-04-13 | 2.3.93 f5f9a1 2015-03-22 | 2.3.92 876e789 2015-03-06 | 2.3.91 2c0702b 2015-02-10 | 2.3.89 7677259 2015-01-19 | 2.3.88 1f7732b 2015-12-31 | 2.3.86 0728c3 2015-11-19 | 2.3.84 241610b 2015-10-29 | 2.3.83 09a429 2015-10-08 | 2.3.83 8b1105f 2015-09-16 | 2.3.82 f6a524 2015-07-30 | 2.3.81 ca8470c 2015-07-19 | | | |
|-----------------------|--------------------------------|--------------------------------|--------------------------------|---------------------------------|---------------------------------|--------------------------------|--------------------------------|---------------------------------|---------------------------------|--------------------------------|---------------------------------|--------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|--------------------------------|---------------------------------|--------------------------------|---------------------------------|--------------------------------|---------------------------------|-----|-------|-----|
| clean_post_upgrade | | | | | | | | | | | | | | | | | | | | | | | 1/1 | | |
| clean_pre_upgrade | | | | | | | | | | | | | | | | | | | | | | | 1/1 | | |
| conf-sanity | 1/0 | 7/7 | | 4/8 | 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 | 4/5 |
| insanity | 6/6 | 7/7 | | 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 |
| large-scale | 4/5 | 3/4 | | 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 | 6/9 | 4/8 |
| fsck | 4/5 | 4/5 | | 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 |
| iblustre | | | | | | | | | | | | | | | | | | | | | | | | | |
| inet-selftest | 6/6 | 6/6 | | 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 | 8/9 | 5/6 |
| lustre-syno-lest | 6/6 | 7/7 | | 4/6 | 8/8 | 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 | 8/9 | 4/5 |
| mds-survey | 5/5 | 4/4 | | 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 |
| metadata-updates | 5/5 | 5/5 | | 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 |
| mmp | 6/7 | 6/6 | 0/1 | 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 |
| obdfilter-survey | 5/5 | 4/4 | | 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 | | | | | 1/0 | 6/9 | 5/6 |
| ost-pools | 6/6 | 7/7 | | 4/6 | 7/8 | 7/7 | 3/3 | 3/4 | 6/7 | 6/6 | 1/2 | 1/1 | 4/4 | 0/1 | 3/6 | 3/7 | 1/3 | 1/1 | | | | | 0/0 | 9/9 | 5/6 |
| parallel-scale | 2/5 | 3/4 | | 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 | 1/1 | | | | | 5/6 | 6/10 | 4/6 |
| parallel-scale-efsv3 | 2/5 | 2/4 | | 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 | 0/8 | 2/5 |
| parallel-scale-efsv4 | 3/5 | 3/4 | | 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 | 0/7 | 1/4 |
| performance-sanity | 4/5 | 3/4 | | 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 |
| posix | 4/5 | 4/4 | | 4/6 | 1/8 | 1/8 | 0/2 | 1/4 | 5/7 | 4/5 | 2/2 | 1/1 | 1/4 | 0/1 | 3/5 | 5/7 | 0/2 | 1/1 | | | | | 3/4 | 2/6 | 0/3 |
| racer | 0/0 | 0/0 | | 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 |
| recovery-double-scale | 0/1 | | 1/1 | 0/3 | 1/1 | 1/1 | | 1/1 | 1/5 | 1/1 | | | | | 0/1 | 0/2 | | | | | | | | | 0/2 |
| recovery-mds-scale | 0/4 | | 1/1 | 0/3 | 0/1 | 0/1 | | 0/1 | 1/7 | 0/1 | 0/2 | | | | 0/1 | 0/2 | | | | | | | | | 0/2 |
| recovery-random-scale | 0/4 | | 1/1 | 0/3 | 0/1 | 0/1 | | 1/1 | 1/3 | 0/1 | 0/2 | | | | 0/1 | 0/2 | | | | | | | | | 0/2 |
| recovery-small | 6/7 | 7/7 | 0/1 | 7/9 | 8/9 | 8/8 | 2/3 | 3/5 | 12/12 | 5/7 | 1/2 | 1/1 | 3/4 | 1/1 | 2/6 | 4/9 | 2/3 | 1/1 | | | | | 6/6 | 9/10 | 5/8 |
| replay-dual | 5/6 | 4/5 | 1/1 | 2/8 | 2/7 | 2/7 | 2/2 | 3/5 | 7/10 | 7/7 | 2/2 | 1/1 | 3/4 | 1/1 | 1/6 | 5/9 | 2/3 | 1/1 | | | | | 6/6 | 8/10 | 5/8 |
| replay-ost-single | 5/7 | 7/7 | 0/1 | 4/9 | 7/9 | 7/8 | 3/3 | 3/5 | 8/12 | 5/7 | 2/2 | 1/1 | 3/4 | 0/1 | 3/6 | 6/9 | 2/3 | 0/1 | | | | | 6/6 | 10/10 | 6/8 |
| replay-single | 5/7 | 7/7 | 0/1 | 4/9 | 6/9 | 6/8 | 2/3 | 3/5 | 7/12 | 5/7 | 1/2 | 1/1 | 2/4 | 1/1 | 3/6 | 5/9 | 1/3 | 0/1 | | | | | 6/6 | 7/10 | 4/8 |
| replay-vbr | 5/6 | 5/5 | 0/1 | 1/8 | 2/7 | 2/7 | 2/2 | 3/5 | 9/10 | 6/7 | 2/2 | 1/1 | 4/4 | 1/1 | 3/6 | 7/9 | 3/3 | 1/1 | | | | | 6/6 | 9/10 | 6/8 |
| runracer | | | | | | | | | | | | | | | | | | | | | | | | | |
| runtests | 6/6 | 8/8 | | 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 |
| sanity | 4/6 | 5/8 | | 1/6 | 3/8 | 1/7 | 1/4 | 2/4 | 4/9 | 1/6 | 1/2 | 1/1 | 3/5 | 1/1 | 0/5 | 0/8 | 0/3 | 0/1 | | | | | 5/6 | 8/10 | 2/7 |
| sanity-benchmark | 5/5 | 4/5 | | 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 |
| sanity-hsm | 0/1 | 2/2 | | 1/1 | 1/2 | 0/1 | 0/1 | | 2/2 | | | | | | | | | | | | | | | | |
| sanity-llsc | 6/6 | 7/7 | | 5/6 | 7/8 | 0/7 | 3/3 | 3/4 | 3/5 | | | | | | | | | | | | | | | | |
| sanity-quota | 5/6 | 7/7 | | 5/6 | 5/6 | 0/7 | 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 |
| sanity-scrub | 6/6 | 6/7 | | 3/5 | 5/6 | 5/6 | 2/2 | 3/4 | 4/5 | | | | | | | | | | | | | | 5/5 | 2/2 | |
| sanity-sec | 6/6 | 7/7 | | 5/6 | 7/9 | 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 |
| sanityn | 6/6 | 6/7 | | 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 |
| sgdd-survey | | | | | | | | | | | | | | | | | | | | | | | | | |



Work Completed

The main areas of focus for Q4 2013 were landing features and completing release testing for Lustre 2.6.

Release testing was completed according to the 2.6 test plan on the following tags – 2.5.50, 2.5.51, and 2.5.52. A number of bugs were found and fixed as a result.

Support for 3.9 kernel was landed (LU-3079).

Matching format of Lustre client in the 3.11 Linux kernel (LU-1346/2800).

Work In Progress

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

Improving single client performance (LU-3321).

Unified request handler on OST (LU-3467).

Peter Jones
HPDD, Intel
January 2nd 2014



Appendix A: Timeline for Lustre 2.6

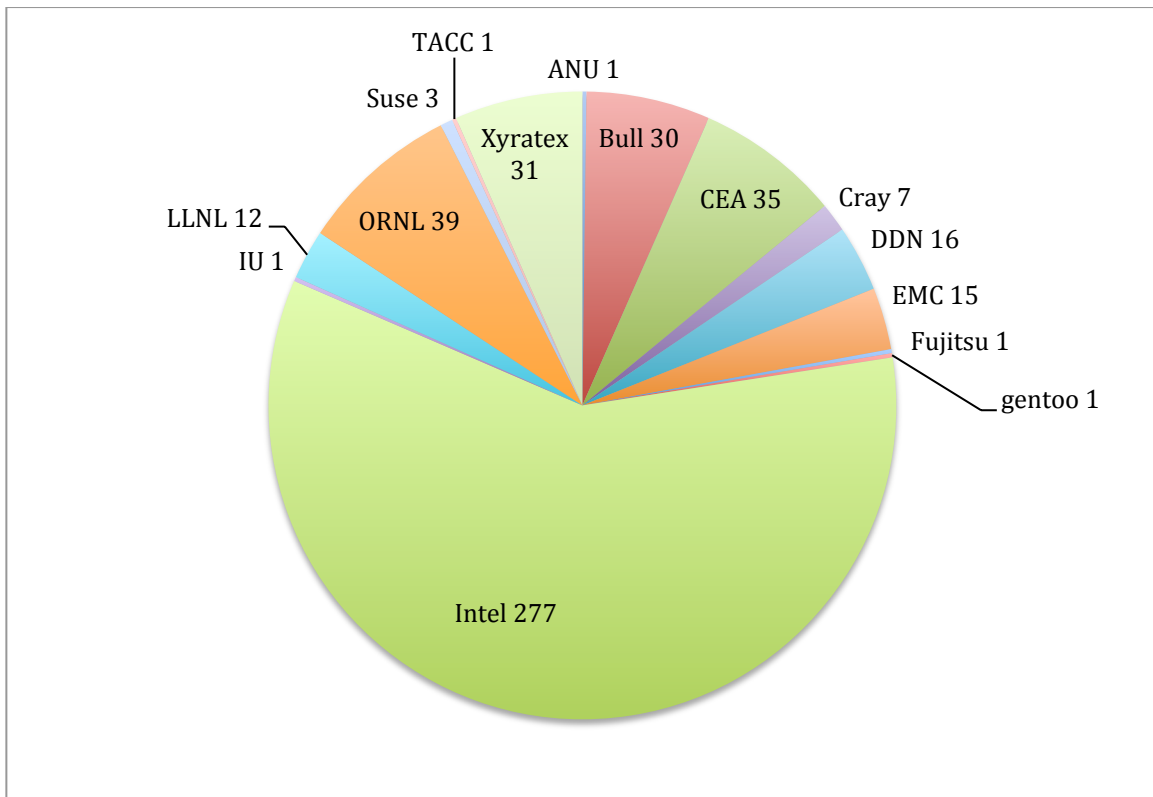
Release criterion is zero issues remaining on the Lustre 2.6 unresolved issues filter in JIRA –

<https://jira.hpdd.intel.com/issues/?jql=fixVersion%20%3D%20%22Lustre%202.6.0%22%20AND%20project%20%3D%20LU%20AND%20resolution%20%3D%20Unresolved%20ORDER%20BY%20priority%20DESC>

The timeline for 2.6 can be found at http://wiki.opensfs.org/Lustre_2.6.0

Appendix B: Landings By Organization for Lustre 2.5

Number of commits between 2.4.50 and 2.5.0.





Number of Lines of code change between 2.4.50 and 2.5.0

