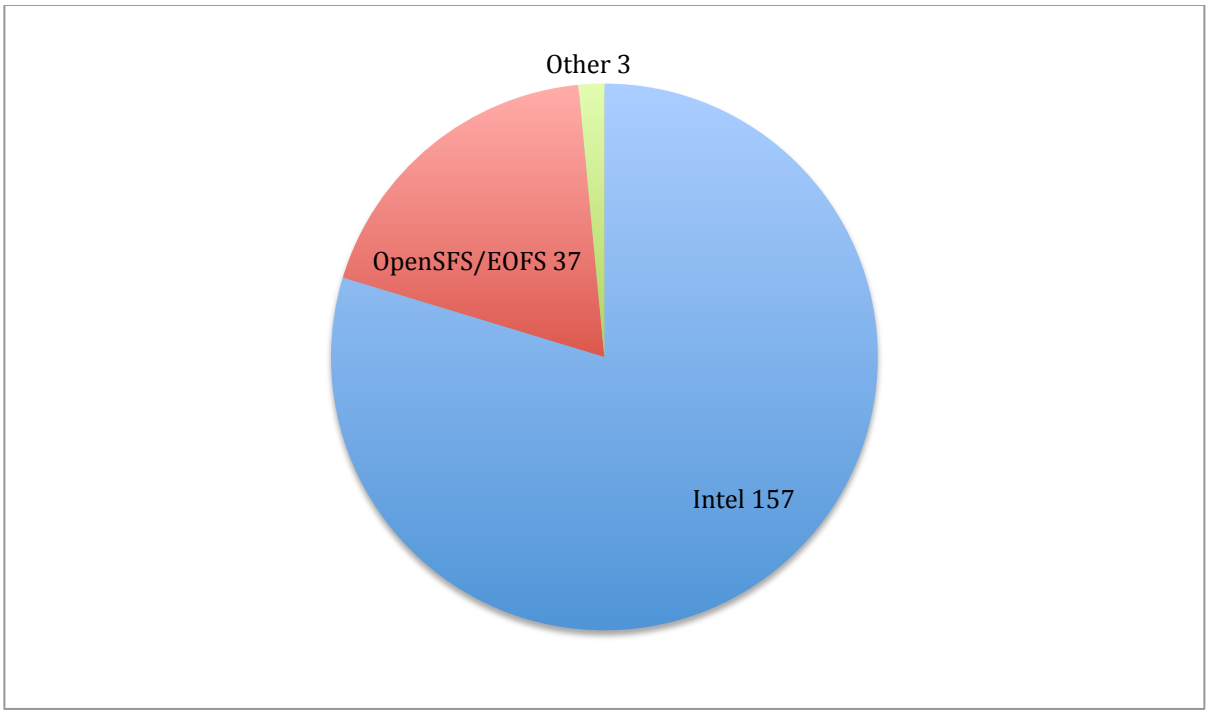
OpenSFS-Intel Lustre Tree Report – Q2 2013

This report provides a brief summary of the highlights of activity on the Lustre b2_4 and master branch for Q2 2013. Landings to master after the b2_4 branch will be included in the Q3 report. The full details of landings can be seen at **http://tinyurl.com/wcgit** .

Landings By Organization

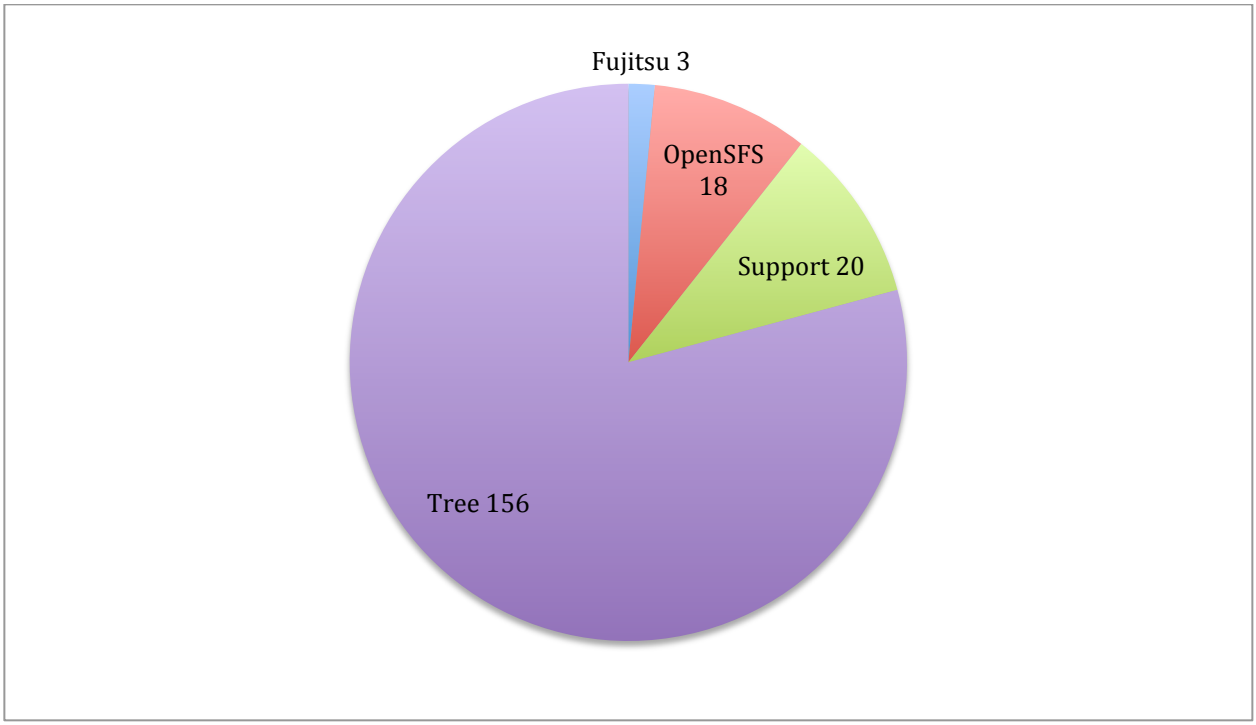


These are just straight totals of the number of landings made to master during the quarter broken down by the organization. Contributions from outside Intel are broken down by the contributing engineer's community affiliation.

Note that the number of landings is lower than the number of git commits because it excludes

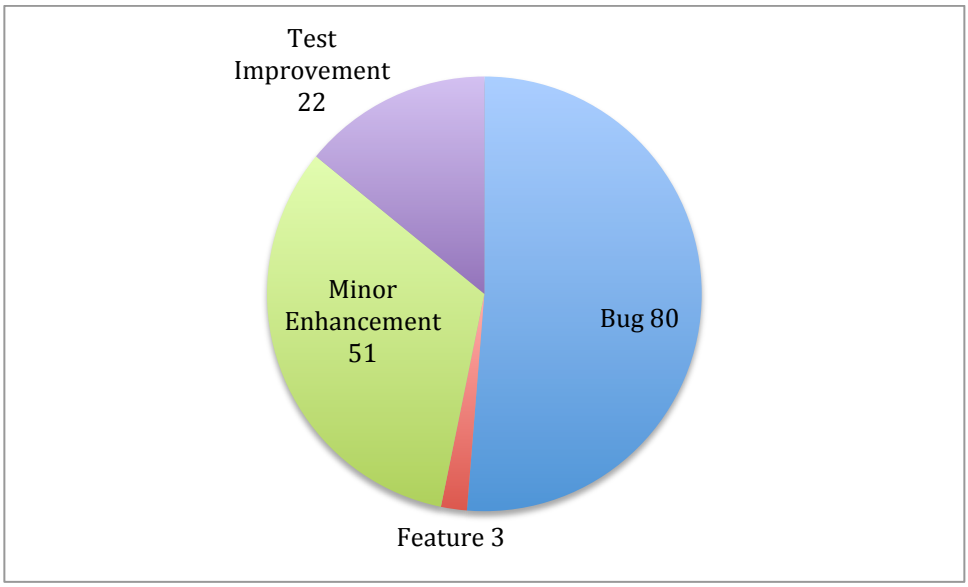
- Landings which were subsequently reverted within the same cycle, thus reinstating the original code
- The creation of tags

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
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 - b2_4

FINAL

Work Completed

The main areas of focus for Q2 2013 were completing release testing for Lustre 2.4 and landing features for Lustre 2.5.

Release testing was completed according to the 2.4 test plan on the following tags – 2.3.64, 2.3.65, 2.4.0-RC1 and 2.4.0-RC2. A number of bugs were found and fixed as a result.

Release testing was completed according to the 2.5 test plan on the following tag - 2.4.51. A number of bugs were found and fixed as a result.

Patches were landed to enable SLES servers to build (LU-3337).

In May, a five-day window of exclusive Hyperion access was granted to allow greater scale testing than is routinely available - with 737 clients.

A new version of e2fsprogs – 1.42.7-wc1 – was created to provide compatibility with 2.4 features.

Work In Progress

Further landings have taken place for HSM.

Many patches have already been landed in preparation for supporting servers for newer 3.x kernel (LU-1812)

Patches have been landed to match format required for accepting Lustre client into the upstream kernel (LU-1346)

Peter Jones
HPDD, Intel
July 2nd 2013

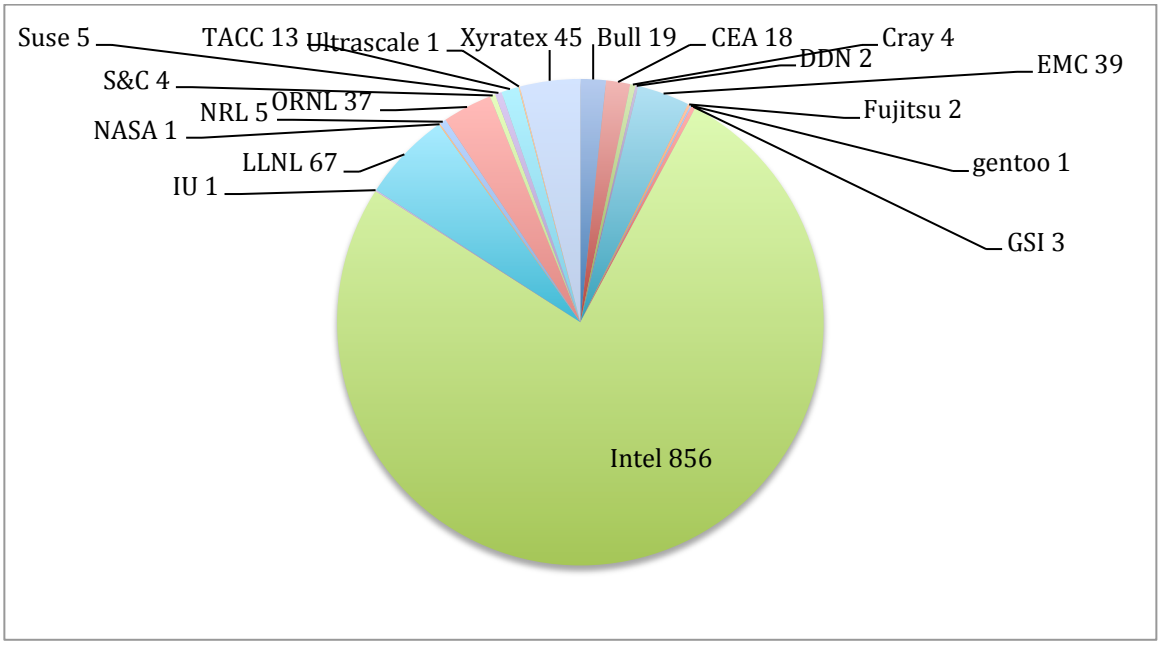
Appendix A: Timeline for Lustre 2.4

Release criterion is zero blockers remaining on the Lustre 2.4 Blockers filter in JIRA - http://jira.whamcloud.com/secure/IssueNavigator.jspa?mode=hide&requestId=10292.

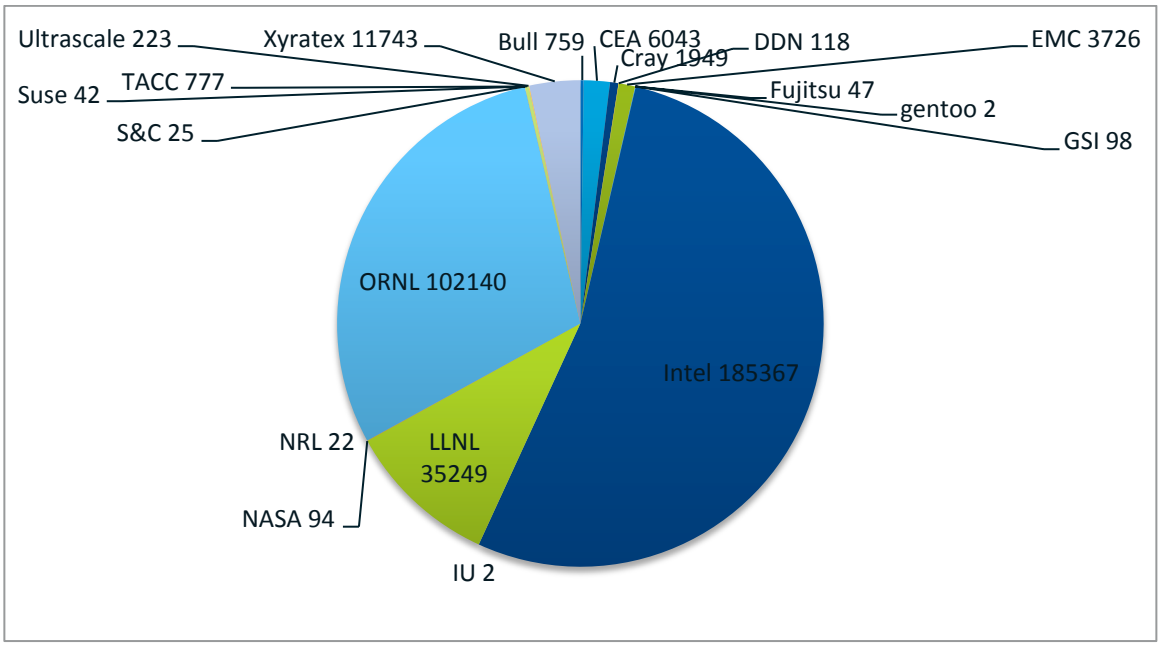
Milestone	Planned Date	Actual Date
Open for Landings	October 1st 2012	August 21st 2012
Feature Freeze	January 31st 2013	January 31st 2013
Code Freeze	March 31st 2013	May 15th 2013
GA	April 30th 2013	May 30th 2013

Appendix B: Landings By Organization for Lustre 2.4

Number of commits between 2.3.50 and 2.4.0.



Number of Lines of code change between 2.3.50 and 2.4.0



Appendix C: 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

The timeline for 2.5 can be found at http://wiki.opensfs.org/Lustre_2.5.0