ADVANCED OPERATING SYSTEMS

TERM PROJECT WEEKLY REPORT

Under,

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By,

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**OPTION CHOSEN:** SURVEY PROJECT

**PROJECT TITLE:** A STUDY ON LINUX LOCK SYSTEMS.

**GOAL:** To do a detailed analysis on the Linux lock systems.

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Using Kdiff3 we started analyzing the versions 3.12.x and 3.13.x. We had encounter few problems in understanding the technical terms and commands used in the patches. We sorted out those issues with the help of Shuanglong Zhang.

We had studied different types of locks and started comparing the various versions of kernel patches for these locks. We found that each patch has some addition and deletion of some features. We have categorized the features into:

• Spinlocks

• Mutex

• Time constraints

• Interrupts

• Bugs

• Maintenance

• Additional features

We made an in-depth survey on patches for these features and compared all the patches in the versions 3.12.x and 3.13.x. With the statistical information obtain from our comparisons we tried interpreting them graphically.

We are going to present our results in the class on 04/21/2014 and give more and detail explanation in our final report.

References:

[1] <http://kdiff3.sourceforge.net/doc/>

[2] <https://drupal.org/node/85184>

[3] <https://www.kernel.org/>

[4] <http://lxr.linux.no/>