



Using Linux Test Project for Kerrighed testing





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Linux Test Project (LTP)

- http://www.linuxtestproject.org/
- A set of very simple tests
 - Test the entire kernel sys-calls
 - Currently, more than 1500 tests



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Testing Kerrighed with LTP

- The idea: using LTP as a non-regression test suite
- 3 test cases
 - Running the tests with no capabilities
 - In this case, Kerrighed is not involved
 - Running the tests with "DISTANT_FORK"
 - Test the sys-calls with distant fork mechanism
 - Running the tests with migrations
 - Problem: how to migrate the tests at some "interesting" points ?

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- Modify each tests one by one to add a migration command
- Add a mechanism to migrate during each sys-call
- Another idea ?



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LTP as a Non Regression Test Suit

We have created a script hosting running tests

- trunk/tools/localTools/Script/krgltp.sh
- Each time a new test is running ok, the test is added in the script
- The script is used in 2 cases
 - Manually, before a commit
 - The script must be run at least 4 times with no error before committing
 - Automatically and continuously on our validation cluster
 - Automatic validation mechanism
 - Check-out the latest SVN version
 - Compile it (check for compilation issues)
 - Boot-up a cluster with the resulting system
 - Run the tests several times (check for regressions)



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- All existing sys-call options are not tested
 - Work is in progress by the LTP team
- Some Kerrighed specific functionalities are not tested



