WIP JUNIT COMPATIBLE XML
REPORTING FOR TOUTEST

OR: ABUSING A REFACTORED TCLUNIT TO ENABLE JENKINS STATISTICS ON TCLTEST OUTPUT

MATTHIAS KRAFT

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- · WHERE TO FIND?

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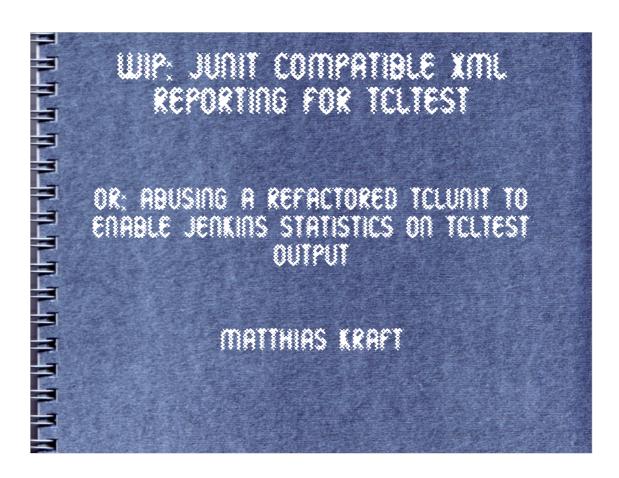
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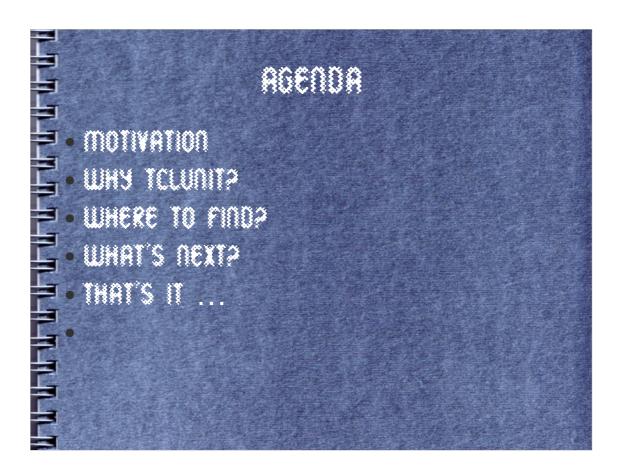
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THAT'S III THANKS FOR YOUR ATTENTION ANY SUGGESTIONS AND QUESTIONS ARE WELCOME...



- \* Welcome to my short Work-in-Progress talk.
- \* I'll tell you something about abusing a refactored tclunit to enable Jenkins statistics on tcltest output.

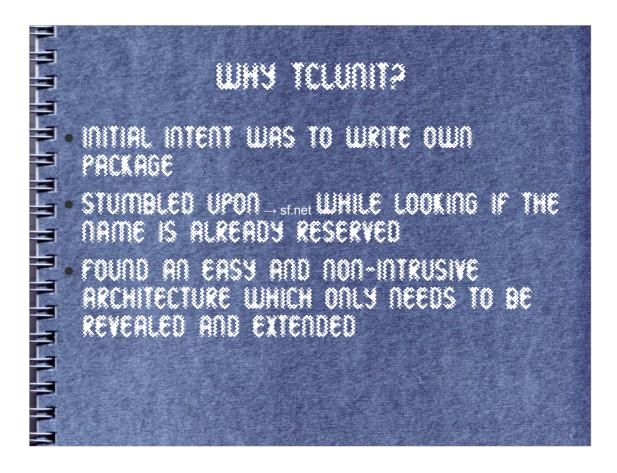


- \* The agenda ...
- \* I use a few terms not everyone might be familiar with...
- \* Jenkins (which is a fork of Hudson) is a Continuous Integration Build server. It is "making it easier for developers to integrate changes to the project, and making it easier for users to obtain a fresh build. The automated, continuous build increases the productivity."
- → jenkins-ci.org
- \* Continuous Integration is an agile development method. Together with Unit tests, e. g. written during Test Driven Development, it provides a possibility to deliver small pieces of software in short cycles with a high quality.

# OF SOFTWAKE AG WE AKE USING JENKINS FOR CONTINUOUS INTERPRISE ICE STATISTICS, OUT OF THE BOX E. G. FOR UNIT TESTS—View, Test Results TO EMPLOY THESE WROTE A SCRIPT AT WORK, WHICH IS "CLOSED SOURCE" AND TORE LIKE A QUICK HACK, HOWEVER

## → softwareag.com

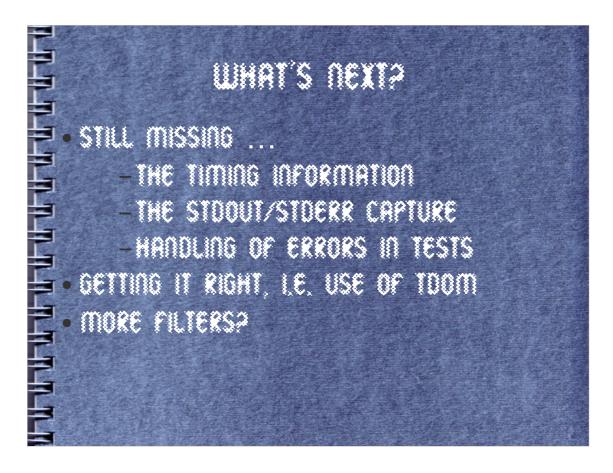
- \* "View" is a link to my local Jenkins showing two projects with their current test abstract and history
- \* "Test Results" is also a link into my Jenkins, but deep into a project. It shows a table of the test scripts run and how many of their tests passed, were skipped or failed. It also reports a failed test case. ... and by clicking on the links there more details can be displayed or history information could be retrieved, etc.
- \* the test logs have to come in a special XML format
- \* it however is **not** documented by a DTD or a Schema, only by the implementation within the ant-junit task, or Jenkins (directory core/src/main/java/hudson/tasks/junit/)



- $\rightarrow$  "sf.net":
  - tcllib.cvs.sf.net/viewvc/tcllib/tclapps/apps/tclunit/
- \* my initial idea was to take tcltest and make it emit the XML test log, then call it tclunit
- \* but tclunit was already taken by a tclapp written a couple of years ago by Bob Techentin
- \* although his tclapp was just a GUI for running a test script (or all test scripts within a directory) he wrote in a very clean style
- \* he basically starts a remote interpreter process running the tests and captures its output acting on the log message
- \* btw another considered name was already taken, too
- → docs.tinyos.net/tinywiki/index.php/TUnit

# WHERE TO FIND? THE OLD GUI HAD BEEN EXTRACTED AND IS AN EXTRA SCRIPT NOW, LIKE THE NEW XML GENERATOR THE TOLUNIT PACKAGE IS NOW ONLY AN EVENT GENERATOR ACTING ON THE LOG MESSAGES OF TOLTEST IT IS STILL WORK IN PROGRESS, ALTHOUGH IT CAN BE FOUND AT —> github.com

- → "github.com": https://github.com/makr/tclunit
- \* so all I had to do was separating GUI and functionality and make a proper tcl package from it
- \* then writing the XML generator
- \* although a couple of things are still missing it can already be used, as seen in the project page, where the "make test" output of Tcl is parsed by the script



- \* the test cases as well as the complete test run can have timing information
- \*\* from toltest currently only the complete test run timing information is available which would need to be stored as attribute in the testsuite header
- \*\* due to my as-easy-as-possible approach this is not possible
- \* stdout/stderr can be captured and stored in the XML file, too
- \* errors in test cases are currently completely ignored
- \* to add timing and output the current serial plain text handling has to make place for a proper DOM tree build up
- \*no more todos from my side, but if anyone has other ideas, feel free to fork on github and I will accept pull requests then



<sup>\*</sup> now its time to wake up and ask questions or tell me that I did something completely stupid in my spare time :-)