

Testing tool ATOS: principles and experience

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Regression tests

- Regression tests required because of continuous changes of XCTL
- Very time consuming and not very interesting procedure
- Automatisations of this long tests and their evaluation desired



ATOS: Automatic regression testing



- Script controlled test system for WINDOWS applications
- Used for periodic and event driven regression tests
- Similar functionality like commercial tools: e.g. WinRunner (very expensive)



ATOS: Basic functionality



- Taken from readme.txt:
 1. In order to make a new project, first analyze the sources of the application you want to test using RCParse
 2. Edit imported information
 3. Export information to an URF file
 4. Create a new ATOS project and import the URF file
 5. Design test scripts using ATOS

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Demonstration

- RCParse
- ATOS

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Experiences with ATOS

- Used in XCTL project and as an assignment for our SE course
- XCTL:
 - Now regular tests raise trust in changes
 - Timing problems → reference platform
- SE course:
 - Relatively easy to use
 - Intention of regression test not obvious to every student

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References

- J. Hanisch/J. Letzel:
Automatisation of Regression Tests
(Diploma thesis in German ☹)
- ATOS manual
(Available in English 😊)