



Add a new crosscutting feature

Ricca Filippo

ITC-Irst

Centro per la ricerca Scientifica e

Tecnologica

ricca@itc.it

The project - Before

- ◆ **JConsole**
- ◆ **Reverse engineering. Collect some views (Class Diagram)**
- ◆ **Instrumentation of the JAVA code using TXL and writing test cases with statement/branch coverage.**
- ◆ Aspect identification
- ◆ Extend the JAVA grammar for the ASPECTJ language
- ◆ AspectJ code generation using TXL
- ◆ Regression testing



The project - Now

- ◆ **JConsole**
- ◆ **Reverse engineering. Collect some views (Class Diagram)**
- ◆ **Instrumentation of the JAVA code using TXL and writing test cases with statement/branch coverage.**
- ◆ Change requirement - add a new crosscutting feature to Jconsole
- ◆ Extend the JAVA grammar for the ASPECTJ language
- ◆ Instrumentation of the ASPECTJ code using TXL and writing test cases with statement/branch coverage.
- ◆ Regression testing (no side effects)



Add a new crosscutting feature to Jconsole

New feature: persistent history between different sessions.

Solution: each Jconsole command should be stored on a file. When the “persistent_history” command is given the JConsole recover the history and visualize all commands.

AspectJ: the new feature is added with an aspect.



Examination

The examination consists of a discussion of the project.

Documentation: for each step of the project give:

- The result
- TXL rules
- Readme