

AGEDIS CONSORTIUM

AGEDIS



AGEDIS –

GOING INTO THE
HOME STRAIGHT, AND
BEYOND

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The Agedis project is reaching its conclusion after two and a half years of intensive technology development and industrial experimentation. In June 2003, we held our penultimate project review before the project review board consisting of Professor Antonia Bertolino of the University of Pisa, Professor Stuart Reid of Cranfield University, and Vasillis Kopanas of the European Commission. We were able to demonstrate the entire tool chain for software test generation and execution on an industrial example from the IBM Hursley development Laboratory.

The current version of the tool chain is activated from a graphical user interface, and contains additional productivity aids besides the core modules for modeling, test generation, and test execution. We have included the following additional components in the Agedis package used in the demonstration:

- A browser for the test suites and test traces.
- A model simulator – which represents execution scenarios as message sequence charts, a defect analysis module.
- A report generator – printing summaries of test results.
- A defect analyzer – which clusters the defects recorded in a trace file, and suggests additional test purposes in order to isolate the defects with similar traces.
- A connection to the Bugzilla bug tracking tool – for automated transfer of bugs to this tracking system.

In the next few months we will also be adding a model coverage analysis tool which will also provide feedback to the test generation process.

The final round of industrial scale experiments has begun. We are testing an e-tendering application at Intrasoft, and a classified system at France Telecom.

We will report on these experiments at our concluding conference on December 11-12 2004 in Nuremberg. This conference – The European Conference on Model Driven Software Engineering – will begin our shift of research focus from testing to the whole software engineering lifecycle. We are committed as a team to the OMG MDA initiative, and after the Agedis project concludes we will continue our work in the broader context of model driven software engineering.