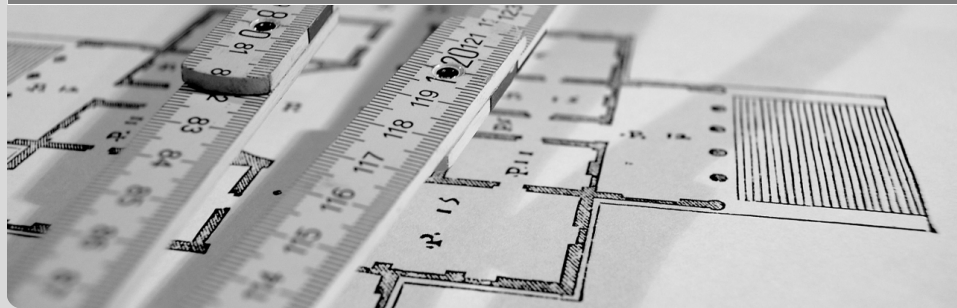


Repeatable Simulation with Palladio

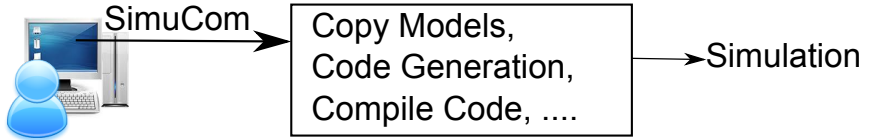
Praktikum, Adviser: Anne Kozirolek & Philipp Merkle

Michael Junker | 18.02.2015

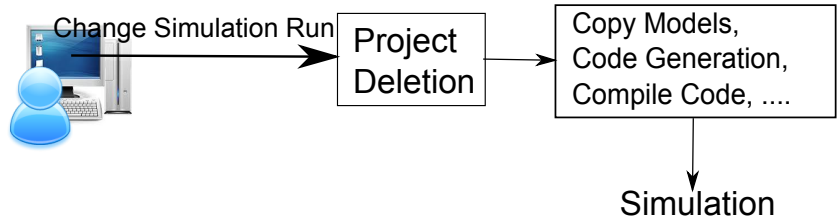
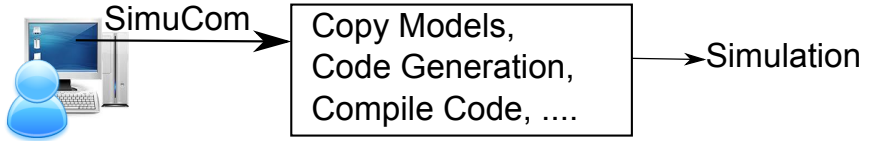
CHAIR FOR SOFTWARE DESIGN AND QUALITY

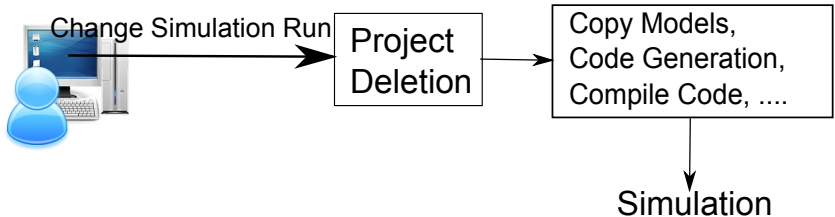
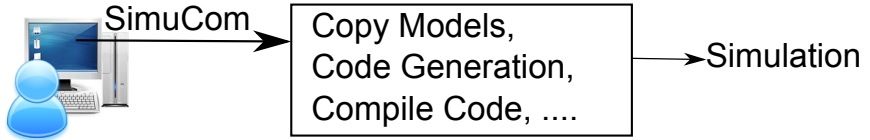


Szenario



Szenario





Code Generation (and other) skippable???

GUI standard

Name: MediaStore (Cache)

Architecture Model(s) Simulation Analysis Configuration Feature Settings Common

Allocation File
platform:/resource/MediaStoreExample/WithCache.allocation Workspace... File System... Default

Usage File
platform:/resource/MediaStoreExample/default.usagemodel Workspace... File System... Default

Middleware Repository File
pathmap://PCM_MODELS/Glassfish.repository Workspace... File System... Default

Event Middleware Repository File
pathmap://PCM_MODELS/default_event_middleware.repository Workspace... File System... Default

Apply Revert

GUI Rerun Simulation

Name: New_configuration

Rerun Configuration ☒ Simulation ☐ Common

Choose existing generated project
/de.uka.ipd.sdq.codegen.simucominstance Workspace...

Base project information
Base Project

Allocation File
 Workspace... File System... Default ☐ Regenerate allocation ☐ Regenerate system and allocation

Usage File
 Workspace... File System... Default ☐ Regenerate usage model

- Filtering projects essential to find specific generated project
- Filtering via project nature
- → Add new project nature to each generated project

- `de.uka.ipd.sdq.codegen.simucontroller`
 - Contains SimuBench and SimuCom Simulator
 - → Entry point for rerunning a simulation
- `de.uka.ipd.sdq.workflow.pcm` (Different constants to fill configuration object)
- `de.uka.ipd.sdq.simucom.rerunsimulation`
 - Dependency to `simucontroller`
 - Contains classes necessary for rerunning a simulation

- Rerunning simulation without project deletion or code regeneration
- Incremental code regeneration (allocation, usage and system)
- Debugging through generated code still in progress

- Deletion and complete regeneration can be skipped
- Allocation, System and Usage can be regenerated
- New launch configuration provided
- RerunSimuCom Plug-in now part of PCM
- Still in progress: Debug through simulation run