



OCL2Java

An overview to the status of the EMA project OCL2Java

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Name: OCL2Java

Developed by: Ferdinand Mehlan

- Purpose of the language / tool:
 - Generate executable Java code from ocl models

Technical Briefing

- Can be found in: github:
 - https://github.com/EmbeddedMontiArc/OCL2Java

Open accessible: Yes

■ MC version: 4.5.3

Uses: OCL, SIUnit

- Current state:
 - Rather stable
 - Old project, contains legacy code and discarded concepts
 - Uses old OCL version, pre-grammar rework

Algorithms and Functionallity

- OCL2Java
 - Entry point to functionality
 - Rewrite model with C-like define rules
 - 2. Load Model
 - 3. Pretransformations on AST
 - 4. Generate Java-Code with visitors

- OCLInvariantTest
 - Tests generator and compares generated code to desired

Generation

- Uses Visitor-pattern on model AST
 - InplaceVisitor and DeclarationVisitor call each other to build code string
 - realThis pattern to differentiate
 - Split into multiple classes to organize

