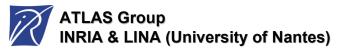
The ATLAS Transformation Language (ATL) project

Transforming models with ATL



M2M/ATL project's website: http://www.eclipse.org/m2m/atl/
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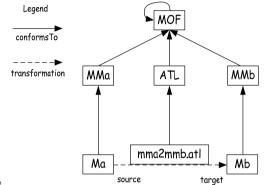


ATL Project Goals

ATL (ATLAS Transformation Language) is a model transformation language and toolkit. In the field of Model-Driven Engineering (MDE), ATL provides ways to produce a set of target models from a set of source models.

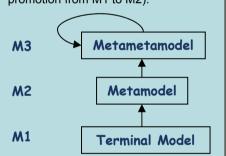
Developed on top of the Eclipse platform, the ATL Integrated Environnement (IDE) provides a number of standard development tools (syntax highlighting, debugger, etc.) that aims to ease development of ATL transformations. The ATL project includes also a library of ATL transformations.

Operational Context of ATL



Principles

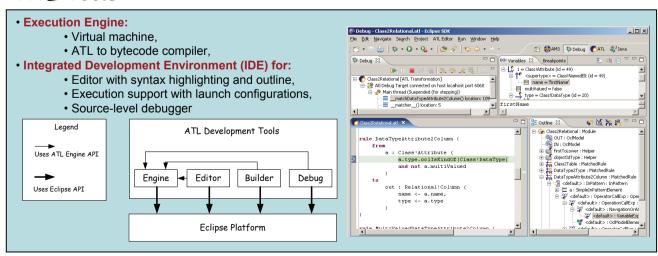
- A model transformation is the automatic creation of target models from source models.
- Model transformation is not only about M1 to M1 transformations (e.g. promotion from M1 to M2).



ATL Overview

- Source models and target models are distinct:
 - Source models are read-only (they can only be navigated, not modified)
 - Target models are write-only (they cannot be navigated)
- The language is a declarative-imperative hybrid
- A declarative rule specifies:
 - a source pattern to be matched in the source models
 - a target pattern to be created in the target models for each match during rule **application**
- · An imperative rule is basically a procedure
 - It can contain a declarative target pattern or an action block (i.e. a sequence of statements) or both
- · Recommended programming style: declarative

ATL Tools



Team:

http://www.sciences.univ-nantes.fr/lina/ATLAS/http://www.sciences.univ-nantes.fr/lina/atl/

Other Tools:

http://www.eclipse.org/gmt/am3/ http://www.eclipse.org/gmt/amw/ http://www.eclipse.org/gmt/modisco/

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