



ATL 3.1 Mini-deck

ATL PMC



ATL: ATLAS Transformation Language

- ATL: ATLAS Transformation Language
- ATL is a language and a Virtual Machine dedicated to model transformation
- ATL is an Eclipse Model-to-Model (M2M) component, inside of the Eclipse Modeling Project (EMP)
- ATL has been moved from GMT to M2M in 2007



Overview



- An Eclipse based IDE
 - Editor (syntax coloration, content assist)
 - Debugger
- A syntax adapted to Model To Model transformation
- A Virtual Machine
 - Executes ATL transformations pre-compiled into low-level transformation-specific bytecode
 - Provides execution environment for any transformation language
 - The M2M QVT Relational project is based on the ATL Virtual Machine

[http://wiki.eclipse.org/M2M/Relational_QVT_Language_\(QVTR\)](http://wiki.eclipse.org/M2M/Relational_QVT_Language_(QVTR))

- A use case implements a QVT Operational Mappings compiler

<http://www.eclipse.org/m2m/atl/usecases/QVT2ATLVM/>

Community



- Wiki-based FAQ, User Guide, and Tips & Tricks
- ATL Transformation Zoo (100+ scenarios, with contributions from the community)
- Complete use cases (20+, with contributions from the community)
- Articles
- Newsgroup: very active community, more than 2000 posts since its creation
- EclipseCon 2008, 2009: tutorial

<http://www.eclipsecon.org/2009/sessions?id=511>

- Publications about ATL:

<http://www.eclipse.org/m2m/atl/publication.php>