The Netherlands



ITEA 3 is a EUREKA strategic ICT cluster programme

Exploitable Results by Third Parties

17003 PANORAMA

Project details

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Name: APP4MC

Input(s):	Main feature(s)	Output(s):	
SW-descriptionHW-descriptionConstraintsDecisionsCosts	 Multi- and Many-Core development process support Common Data exchange and simulation format Event tracing Customizable workflow 	 SW distribution for embedded multicore systems Common data exchange and simulation format 	
Unique Selling Proposition(s):	 Development efficiency increase De-facto standard for data exchange New services and functions 		
Integration constraint(s):	JAVA 8 or newer		
Intended user(s):	SW-architects, SW-developer, HW designer,		
Provider:	7 Time developers		
Contact point:	 https://projects.eclipse.org/projects/automotive.app4mc/who 		
Condition(s) for reuse:	EPL2 licensed (Eclipse public license)		
		Latest: 30.11.2021	





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Input(s):	Main feature(s)	Output(s):	
 SW-description HW-description Mapping-decisions Or AMALTHEA model 	 Timing Simulation of an AMALTHEA Model 	 Trace Data Extendable SystemC-based generated Source- Code of AMALTHEA Models 	
Proposition(s):	dynamic aspects Allow early timing analysis on AMALTHEA models to substantiate design decisions		
constraint(s):	JAVA 8 (for model transformation) CMake C++-Compiler (Visual Studio Compiler, G++, Clang) Supported platforms: Win 64, Linux (64 bit), OSX (64 bit)		
Intended user(s):			
	APP4MC developers https://www.eclipse.org/app4mc/community/		
Contact point:	https://projects.eclipse.org/projects/automotive.app4mc/who		
Condition(s) for reuse:	EPL2 licensed (Eclipse public license)		
		Latest: 28.02.2022	





Name: APP4MC Cloud

ITEA3

Input(s):	Ma	ain feature(s)	Output(s):
AMALTHEA model		Static Analysis Timing Simulation of an AMALTHEA Model Common hosted infrastructure (ready to use)	 Result visualization Trace Data Model migration Model validation
Unique Selling Proposition(s):	 Ready to use infrastructure and tool setup Cloud processing Joint distributed environment Use case based configuration possibility 		
Integration constraint(s):	 Internet access https://app4mc.eclipseprojects.io/ 		
Intended user(s):	SW-architects, SW-developer, HW designer		
Provider:	 APP4MC developers https://www.eclipse.org/app4mc/community/ 		
Contact point:	 https://projects.eclipse.org/projects/automotive.app4mc/who 		
Condition(s) for reuse:	■ EPL2	2 licensed (Eclipse public license)	
			Latest: 28.02.2022



Name: Model-Based Safety Assurance and Traceability (MobSTr) Dataset

Input(s):	Main feature(s)	Output(s):
None.	 Fully traced set of safety-relevant artifacts to demonstrate model-based safety assurance and traceability Full stack of artifacts that covers the entire pre-implementation life-cycle (including hazard analysis and risk assessment, failure mode and effects analysis, as well as fault tree analysis. Defined traceability information mode that describes the link types based of the needs of safety assessment. 	S S)
Unique Selling Proposition(s):	 To the best of our knowledge, it is the most comprehensive freely available dataset of its kind and therefore represents a prime example of model-based safety assurance and traceability <u>Custom Eclipse installation</u> is provided, which enables easy installation and barrier-free reuse for research projects 	
Integration constraint(s):	 Can be used on laptops and desktop machines Some of the artifacts can be accessed with the following tools: Eclipse APP4MC (optional) Eclipse Papyrus (optional) Eclipse Capra (optional) ODE Editor (optional) Microsoft Excel (optional) 	
Intended user(s):	Researchers Interested Industrial Practitioners	
Provider:	 MobSTr Dataset contributors https://github.com/panorama-research/mobstr-dataset 	
Contact point:	https://www.researchgate.net/project/MobSTr-Dataset	
Condition(s) for reuse:	■ EPL2 licensed (Eclipse public license)	
		Latest: 02.03.2022





Input(s):	Main feature(s)	Output(s):
Any supported artifact, e.g., Java/C/C++ source code, UML diagrams in Papyrus, ReqIF models, Excel files, Amalthea model	 Creation of traceability links between artifacts in different languages/DSMLs Visualisation of the trace model Automatic consistency checking High customizability and extensibility 	 Model of traceability links Traceability link visualistion
Proposition(s):	development Support for many common artifact types out of the box High extensibility allows integration of additional artifact types quickly and easily	
constraint(s):	Works within the Eslipse Hell Cherk Hattern	
- 5	SW-architects SW-developers System engineers Test managers	
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Contact point:	https://projects.eclipse.org/projects/modeling.capra/who	
Condition(s) for reuse:	EPL2 licensed (Eclipse public license)	
		Latest: 04.03.2022



Name: ForSyDe IO

Input(s):	Main feature(s)	Output(s):	
SW-descriptionHW-descriptionConstraintsDecisions	 Embedded system-level design support Common Data exchange and simulation format Customizable workflow Extensible multi-aspect model Visualization 	 Common data exchange for embedded system- level design flows. Supporting design space exploration via IDeSyDe. 	
Unique Selling Proposition(s):	Integration with the App4mc framework. Integration with the IDeSyDe design space exploration tool. Visualization of the system model, before and after design space exploration. Development efficiency increase		
Integration constraint(s):	designed for Laptop or desktop machines JAVA 8 or newer OR Python 3.7 or newer Supported platforms: Win 64, Linux (64 bit)		
Intended user(s):	System designer, System architects, SW-	architects	
Provider:	 KTH Royal Institute of Technology https://www.kth.se/ 		
Contact point:	https://forsyde.github.io/forsyde-io/		
Condition(s) for reuse:	MIT Licensed (actual project)EPL2 licensed (One of its dependencies)		
		Latest: 08.03.2022	