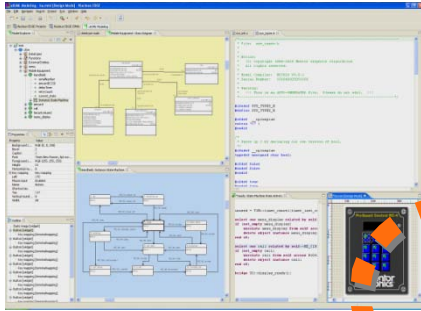
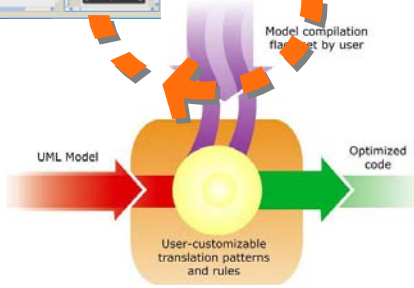
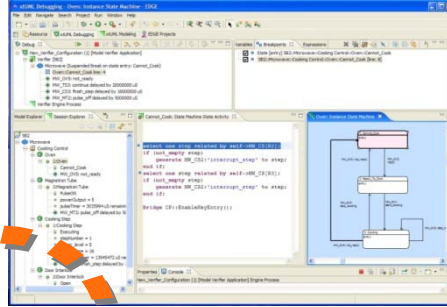


Model Construction



Model Execution



Model Compilation

The BridgePoint Design Flow. Platform-independent, executable translatable UML models permit early defect detection and repair. BridgePoint is an advanced, proven, UML-based environment that provides high quality, regular code conforming to any convention or standard.

Model Driven Development Enables Improved Processes and Products

Model driven development provides a structure for managing complexity while, at each design stage, making it possible to directly link design functionality back to original requirements and functional specifications. A virtual prototyping infrastructure in which models from different domains can be integrated at each stage of the development life cycle allows system integration issues to be identified and addressed earlier, helping reduce overall program time and cost

BridgePoint xtUML tools enable engineers to develop, model, and test their concepts in a platform-independent environment before the target hardware is built. This allows important design decisions to be made early---and correctly.

Major product features:

- Comprehensive design environment based on reusable, target-independent executable specifications and models
- Easily-interpreted graphical views of functionality, partitions and interactions
- Provides early testing and discovery of system design strengths and weaknesses
- Executes models interactively; translates design elements automatically, with direct target code generation
- Elimination of redundant time and cost spent on repetitive model creation; fast product development
- Automatic generation of optimized code for the specific system target
- Easy application of rules and templates to create system variants and ensure consistency and standards compliance
- Complies with industry-leading UML standards
- Most complete suite of UML tools for the development of real-time embedded systems, with powerful optimization tools and templates



Graphical Models Increase Understanding

BridgePoint uses graphical views that are far easier to read and interpret than ordinary code listings. Diagrams expose abstraction, which allows us to reason about their correctness. The views are concise enough to be understood by all project stakeholders, including non-technical personnel.

The design process begins with a system-level overview in which the system is partitioned into components and their interfaces. These components, in turn, contain the behaviors of specific elements that further describe the design. The models are reusable and platform-independent.

All of the fundamental BridgePoint building blocks (class diagrams, state machines, action language, etc.) enable fast and accurate development, executable models, and 100% translatable output.

We Don't Build Models Just for the Fun of It

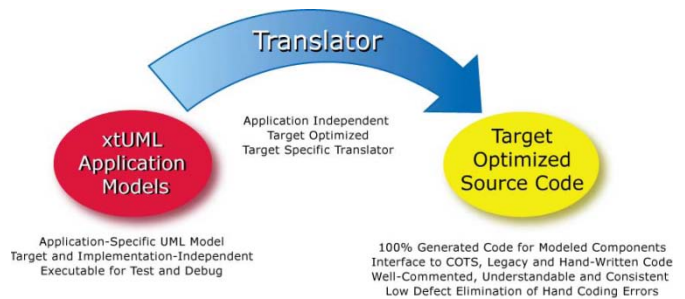
There have to be serious, amazing benefits to justify changing a nice comfy C++ development environment into something fundamentally different. Key benefits of BridgePoint change the economy of the development process.

- By working at a more powerful level of abstraction, more code is written in less time. Problems are easier to solve, because fewer irrelevant details need be considered.
- You can adapt to hardware changes because you are removed from those details. You can build models while the hardware and system software is designed and re-evaluated.
- Ideas can be quickly tested. Since the models can be executed independent of hardware/system software details, you can test your concepts without having to bind yourself to an unresolved platform.

Executable and Translatable UML Development

xtUML leverages several key concepts that revolve around the complete separation of application and software architecture design.

- Application models capture what the application does in a clear and precise manner. These models are executable, providing the opportunity for early validation of application requirements. Application models are fully independent of design and implementation details.
- Software architectures--defined in terms of target language patterns, design rules and implementation technologies--are incorporated into a translator that generates code for the target system. The software architectures are completely independent of the applications they support.
- The translator maps application models to the appropriate design rules and patterns, resulting in 100% complete code generation for modeled components.



BridgePoint Packaging Options

- ✓ System Designer - model development and execution
- ✓ Model Compiler - C, C++, or customizable
- ✓ UML Suite – full executable and translatable capability

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