**Performance Engineering**

# Foresight Tool Suite Datasheet

## Foresight Simulation & Analysis Environment

Foresight's military grade **R**esource **A**ware **M**odeling & **S**imulation (RAMS) environment is a visualization framework that combines an expressive graphical modeling language with an accurate, reality based, representation of your resource platform.  This composite model is executed on a high performance discrete event simulator, which allows you to interact with a working virtual prototype of your system.  Our powerful, yet intuitive, graphical modeling language includes constructs to represent data flow diagrams, state transition diagrams, and a procedural mini-specification grammar.

You interact with the virtual prototype to analyze your design, explore tradeoffs and ensure that your solution is fully optimized against your constraints, all before committing to a physical implementation.  Anticipating system implementation issues early in the design process allows you to manage complexity, leverage additional flexibility, compress product cycles and minimize execution risk.

As your product cycle progresses, Foresight models are refined into executable specifications that drive system implementation, enable test generation, support further analysis, provide a platform for software development and facilitate team communication.

## Foresight Tools

**Modeler** — Modeler provides an integrated modeling and simulation environment.  The core of the tool is a high performance discrete event simulation engine, thoroughly optimized for the design and analysis of complex systems.  Models are formed from hierarchical data flow & state diagrams, procedural descriptions and a data dictionary.  A rich library of pre-built elements is readily augmented to develop custom reusable models.  Modeler includes graphical & textual model editors, data visualization and document generation.

**CoderC++** — CoderC++ performs automatic model compilation (using C++).  CoderC++ creates fast batch simulations of your models and standalone virtual prototypes of your system.

**RQIF** — RQIF provides requirements traceability interfaces to external requirement management tools, including Telelogic DOORS™.

**Bridgeway** — Bridgeway implements a tool integration backplane and SDK that link your Foresight analyses with other simulations and applications over TCP/IP.  Bridgeway supports powerful co-simulation and implementation-in-the-loop.

## Services

Foresight's expert service professionals are available to accelerate your productivity by developing models, providing training, supporting your design team and even performing the analysis at your direction.

## Target Industries

♦ Automotive Controls
♦ Commercial Electronics
♦ Industrial Automation
♦ Military / Aerospace
♦ Wireless Communications

## Supported Platforms:

♦ Windows 2000/XP/Vista
♦ Linux (x86 based)
♦ Solaris V10

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