

## Foresight Systems Addresses Your Challenge

Your challenge is building complex highly constrained systems quickly and efficiently. Foresight Systems M&S meets the challenge head on. Our military grade **Resource Aware Modeling and Simulation (RAMS)** software works from system requirements to produce a detailed design specification that you can implement with confidence. These powerful analysis tools allow you to look ahead and optimize implementation decisions during system design. Anticipating system tradeoffs early allows you to manage complexity, provides additional flexibility, compresses product cycles and minimizes execution risk.

Foresight's tools are optimized to readily solve the design problems that present the most demanding requirements for functionality, performance, power consumption and asymmetric multi-processing. These conflicting constraints combine to create complexity that you cannot manage using conventional techniques. Our extensive history with defense / aerospace systems drove us to create this extremely accurate and broadly scalable software that allows you to fully visualize working systems.

We're engineers building tools for engineers.

### Your fastest path from concept to deployment!

*"Lockheed Martin, the world leader in the design of aerospace and defense technologies, selected Foresight as its corporate standard system engineering architecture analysis tool for discrete event simulation. To earn the banner of 'Lockheed Martin Preferred Tool', Foresight won the rigorous 'Ten Step' procurement process for this tool category as conducted by the Systems Engineering Subcouncil of the Lockheed Martin engineering process improvement program."*

PM, Systems Engr. Tools; Lockheed Martin

### Foresight's Solution

Foresight's RAMS environment is a visualization framework that combines a powerful, yet intuitive, graphical modeling language with a virtual resource representation that reflects the operational realities of your system. This composite model is executed on a high performance discrete event simulator. Our intuitive graphical modeling language includes constructs to represent data flow diagrams, state transition diagrams, and a procedural minispec language. Models and component implementations from other environments are easily incorporated through our co-simulation interface.

Our resource aware model based design methodology gives you a powerful tool to validate system requirements and explore your design space. Foresight models become executable specifications that drive implementation, test generation, further analysis and team communication.

While our software tools will address your design challenge, they may not be a complete solution for your specific project situation. Foresight's experienced service professionals are available to minimize your time to full productivity by developing models, providing training and even performing the analysis at your direction.

### Company Background

Foresight has been a critical component of the design process for military, aerospace and commercial systems for more than fifteen years. The tools have been constantly enhanced and optimized to become the most accurate, flexible and scalable system visualization & analysis programs on the market.

Our [executive team](#) has extensive demonstrated success engineering complex systems across the semiconductor, embedded, design automation and commercial software domains.

#### Foresight Tools are Used by Teams at the Leading Edge, Including:

Allied Micro Electronics	L-3 Communications	Northrop Grumman	Siemens Corp. Research
Bell Northern Research	Lockheed Martin	Orbital Sciences Corp.	Texas Instruments
Boeing	Motorola	Quantum	Textron
General Dynamics	Naval Surface Weapons	Raytheon	United Technologies
Hewlett-Packard	Nokia	Sandia National Labs	Westinghouse

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