



This highly intuitive visual approach allows you to see your program's logic at a glance, and quickly spot potential bugs or other difficulties. The visuals also make it a snap for you to show and discuss your work with other members of your development team including typically non-technical members such as conceptual designers and illustrators.

Some key features of **SimBionic's** IDE include:

- A comprehensive **integrated development environment** incorporating editor, debugger, and run-time engine.
- A highly intuitive **visual editor** accessible to the development team.
- A fully-integrated **debugger** that features code stepping, breakpoints, watch lists, arbitrary expression evaluation, and remote debugging ability.

## SimBionic Engine: Running Intelligent Behaviors

Notable features of **SimBionic's** sophisticated engine, which is the *brains* driving the behaviors of the entities you've created, include:

- Impressive speed, backed by a load-balancing scheduling system that minimizes impact on frame rate.
- Efficient use of memory, thanks to both a small footprint and the engine's own memory management system.
- A thin API for easy integration with virtually any C++ game, Java applet, or web server application.
- Stack-based hierarchical execution, which lets any behavior invoke any other behavior, which in turn can invoke any other behavior, ad infinitum, allowing you to construct sophisticated behaviors from simpler ones and efficiently reuse your work.
- Built-in commands supporting communication between entities via both message queues (that allow entities to join groups and exchange team messages) and virtual blackboards (that allow any entity to post messages that can be read by any other entity).
- Powerful API methods that let you precisely control when each entity is created, how often it executes, which behaviors it executes, and how extensively its activities are recorded.

Support for polymorphic indexing of behavior, allowing the game engine to dynamically select the appropriate behavior to perform based on the entity's object description.

## System Requirements

The SimBionic authoring tools and runtime engine are compatible with Windows 2000/XP.

## Contact

For more information about SimVentive, please contact Ryan Houlette at 617-616-1293 or [houlette@stottlerhenke.com](mailto:houlette@stottlerhenke.com).