VisSim/Real-TimePRO™

Data Acquisition, Control, and Hardware-in-the-Loop Validation

v8.0

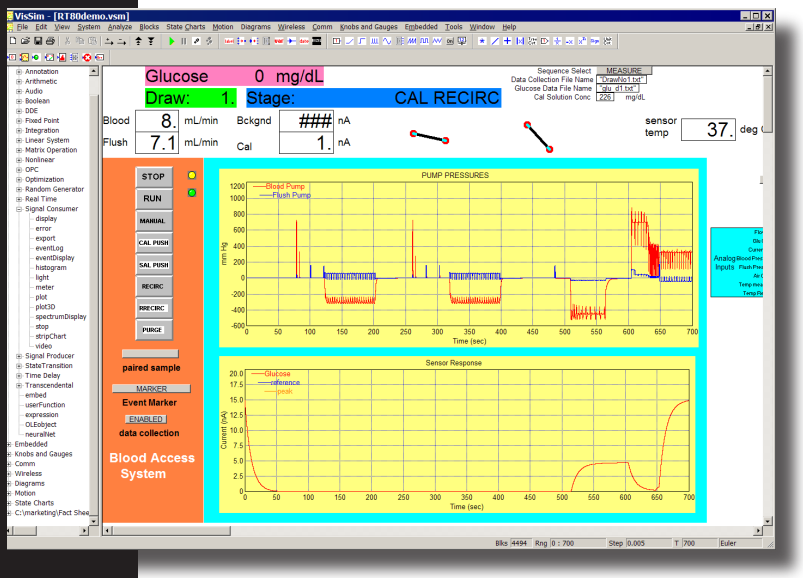
Modeling The Future

VisSim/Real-TimePRO interfaces VisSim to popular analog and digital I/O boards and devices from National Instruments, Measurement Computing, and Quanser.

VisSim/Real-TimePRO lets you couple a VisSim model directly with a real PLC or DCS system for off-line tuning, or to prototype a VisSim control with a real plant.

With VisSim/Real-TimePRO, hardware-in-the-loop (HIL) systems can be configured and executed by interfacing VisSim plant or controller models with real-world hardware, such as manufacturing plants, chemical processes, motors, pumps, and electric drives. The interface is through computer I/O cards, high-speed motion control interface cards, or serial port connections to PLCs or DCSs. There is no code generation or programming involved to configure an HIL system with VisSim/Real-TimePRO.

For the complete list of board support is online at www.vissim.com.



VisSim model of a real-time, hardware-in-the-loop system that automatically draws and returns blood samples from measurement.

HIGHLIGHTS

- Develop and validate control strategies
- Perform off-line tuning of controllers against a real-time plant
- Perform real-time control of actual plant
- Perform operator training against a real-time plant simulation
- Universal library support for National Instruments and Measurement Computing boards
- Real-time data acquisition and display
- Real-time HIL execution
- Real-time data logging with gating
- Closed-loop process control
- Cold junction compensation
- Pulse width modulation
- Thermocouple linearization
- PID tuning
- Connect up to 16 boards simultaneously
- Simultaneous use of boards from different vendor
- Up to 10 kHz data sampling rate

System Requirements

- Professional VisSim 8.0
- Windows XP, Vista, or 7
- Hardware board
- 128 MB RAM
- 125 MB hard disk space

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www.vissim.com

About Visual Solutions

Visual Solutions is a pioneer in the development of world-class software for modeling and simulating complex dynamic systems and for Model-Based Design of embedded systems.

VisSim is a visual environment for developing system models and performing dynamic simulations. Its unparalleled power, ease of use, and reliability has made it an essential tool on thousands of engineering projects spanning a diverse range of industries and disciplines, including motion control, closed-loop control, automotive, HVAC, aerospace, medical devices, and embedded controls development.

Since its founding in 1989, Visual Solutions has maintained a strong connection with the academic community. Visual Solutions software products have been incorporated into the curricula and research laboratories at thousands of universities and colleges. It has enhanced and improved teaching methods, learning skills, and research strategies.

Contact us now for more information on the VisSim product line.

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