

VisSim/OptimizePRO™

Constrained Parameter Optimization Software

v8.0

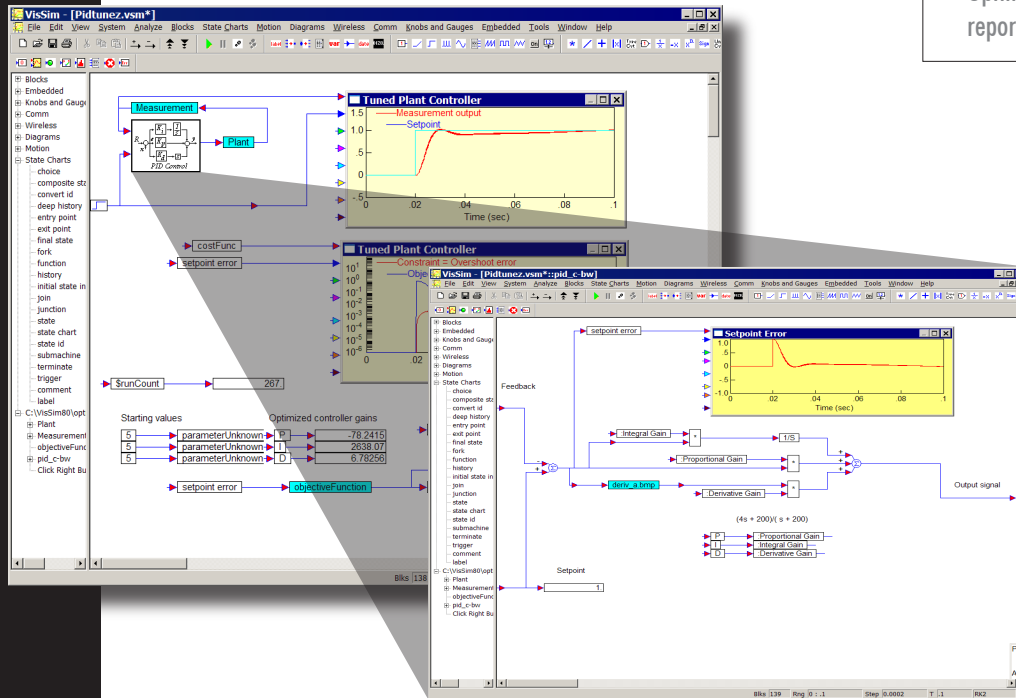
Modeling The Future

VisSim/OptimizePRO calculates optimal values for design variables subject to user-defined constraints starting from initial user guess values. For example, VisSim/OptimizePRO can automatically calculate optimal PID controller gains that give minimal time to setpoint, plus minimal overshoot. VisSim/OptimizePRO allows user-specified cost functions that can consider controller behavior such as steady-state error, overshoot, and rise and setting times.

VisSim/OptimizePRO also works with a physical system when used with VisSim/Real-TimePRO and VisSim/Embedded Controls Developer.

HIGHLIGHTS

- Constrained optimization
- General linear and nonlinear optimization
- Multi-nonlinear constrained optimization
- Optimization with no constraints
- Optimization with upper and lower design variable bounds
- Minimum and maximum of objective function
- Optimization and diagnostics reporting



Constrained optimization of controller gains of a PID controller (upper left). PID control structure is accessible by right clicking on the PID CONTROLLER compound block.

System Requirements

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

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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
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