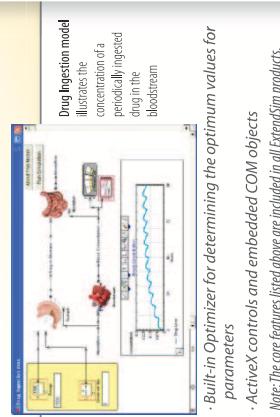
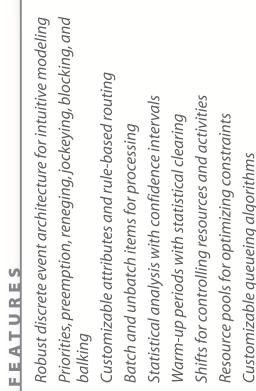


TYPICAL USES

- ENGINEERING/SCIENTIFIC**
- Biological and Ecological
 - Chemical and Environmental
 - Continuous Processes
 - Control Systems
 - Electronic Engineering
 - Finance and Economics
 - Mechanical Engineering
 - Medicine and Pharmacology
 - Mathematics and Physics



- Drug Ingestion model illustrates the concentration of a periodically ingested drug in the bloodstream.
- Built-in Optimizer for determining the optimum values for parameters
 - ActiveX controls and embedded COM objects
 - Note: The core features listed above are included in all ExtendSim products.



- An item template for fast model building
- Plus all the core ExtendSim features (databases, data linking, hierarchy, interactivity, and so forth).

BUSINESS/MANUFACTURING

- Banking Systems
- Call and Customer Contact Centers
- Communication Systems
- Discrete Event Systems
- Healthcare
- Insurance and Financial Services
- Inventory and Supply Chain Dynamics
- Lean, Six Sigma, and Reliability Engineering
- Manufacturing and Mining Production
- Scheduling and Logistics
- Service and Retail Systems
- Transportation and Material Handling

FEATURES

- Robust discrete event architecture for intuitive modeling
- Priorities, preemption, renegeing, jockeying, blocking, and balkling
- Customizable attributes and rule-based routing
- Batch and unbatch items for processing
- Statistical analysis with confidence intervals
- Warm-up periods with statistical cleaning
- Shifts for controlling resources and activities
- Resource pools for optimizing constraints
- Customizable queuing algorithms
- Item templates for fast model building
- Plus all the core ExtendSim features (databases, data linking, hierarchy, interactivity, and so forth).
- Mix flow and discrete event entities
- Includes separate Stat-It! application for distribution fitting
- Plus, all the features and capabilities of ExtendSim OR

- PRESENTATION**
- Airport Security Lines
 - Arson Traffic
 - Baggage Handling
 - Customer Flow
 - Emergency Rooms
 - Management Presentations
 - Production Lines
 - Reception Stations
 - Service Centers
 - Ticketing Processes
 - Traffic and Transportation Systems



- Airline security passengers must pass through metal detectors and baggage scanning before being allowed to board
- Shadows, footprints, vehicle trails, and 3D sound
 - Complete control over terrain environment
 - Open API for flexibility and customization
 - Plus, all the features and capabilities of ExtendSim AT

FEATURES

- Simulate rate-based flows (transactions per second, gallons or cartons per minute, etc.)
- Determine effective rates based on model flow, constraining rates, and rules
- Valves control and monitor flow; set goals for flow quantity and duration
- Merge, diverge, and route flow using rule-based options
- Prioritize flow by overriding rules
- See animated tank level and direction, plus blocking and starving conditions
- Conveyors can be non-accumulating or accumulating with accumulation points

FEATURES

- ExtendSim Suite**
- Professional 3D environment*
- The ExtendSim Suite package includes a next generation 3D animation capability that provides a three-dimensional representation of the world of the model. The 3D environment is independent of, but integrated with, the logical model – 3D animation can be added after the model has been validated. The objects modeled in the 3D world maintain information about their spatial locations in three dimensions as well as their other physical and behavioral properties.
- This package includes all the features and capabilities of ExtendSim AT, plus a fully integrated, flexible, and powerful 3D environment. Use ExtendSim Suite whenever modeling projects call for professional animation.
- 3D virtual environment tightly integrated with simulation engine
 - Animations run concurrently with model or buffered for post-processing
 - Over 100 pre-built 3D objects; new objects can be added as needed
 - Exact control of object position, scale, and collidability
 - 3D objects can be mounted on other objects
 - Objects can have their own animated movement
 - 3D animation blocks enhance 3D animation
 - Create custom paths for object movement



Imagine That!

ExtendSim CP*Continuous process*

Use ExtendSim CP to model the behavior of any process where time or values are recalculated at each periodic step. The package includes a Value library of components for performing continuous modeling tasks. For custom applications, the internal development environment allows you to create fully integrated, custom components to fit any need.

ExtendSim OR*Operations research*

The essential tool for researching operational performance, ExtendSim OR features a message-based discrete event architecture and capabilities. Use ExtendSim OR to track and analyze the behavior of physical or logical entities when events cause them to change state or move through a system. An integral part of Lean, Six Sigma, Risk and Throughput Analysis, and Capacity Planning projects, ExtendSim OR is designed for simulating, analyzing, and optimizing discrete event systems, plus has all the features and continuous modeling capabilities of ExtendSim CP.

ExtendSim AT*Advanced technology*

Our advanced technology product, ExtendSim AT, features a rate-based functionality for modeling batch processes. Use it to specify rates of flow for high volume or high speed systems, then delay and route the flow using constraints and rules. This package includes tanks, valves, conveyors, and more for modeling bulk systems, plus all the discrete event capabilities of ExtendSim OR for tracking individual entities. ExtendSim AT is particularly well-suited to manufacturers operating in a mixed-mode environment, but is flexible enough to accommodate any industry that operates in a high-speed or high-volume arena.

FEATURES

- Graphical simulation databases for storing, managing, and reporting data
- Dynamic data linking from parameters and data tables to internal and external sources
- Hierarchical modeling for unlimited levels of submodels; Navigator for jumping through model structure
- Interactive dialogs, controls, and user prompts, even during the simulation run
- Customizable 2D animation
- Authoring environment for creating custom user interfaces
- Monte Carlo, Agent Based, and State/Action modeling



PRICE PER SINGLE-USER LICENSE*

Features	ExtendSim Suite \$4,995	ExtendSim AT \$2,495	ExtendSim OR \$1,795	ExtendSim CP \$995
MODULAR DESIGN				
· Value library module for continuous modeling	•			
· Electronics engineering module	•	•		
· Statistical analysis components	•	•	•	
· Item library for discrete event modeling	•	•	•	
· Material handling components	•	•	•	
· Rate module for rate-based flow systems	•	•	•	
· Integrated Stat::Fit application – fit data to a distribution	•	•	•	
· 3D enabled modeling components	•			
STATE-OF-THE-ART INTERFACE				
· Graphical interface depicts relationships in modeled system	•	•	•	
· Animation - built-in and customizable 2D	•	•	•	
· Authoring environment for creating custom user interfaces	•	•	•	
· Unlimited hierarchical layers and submodels	•	•	•	
· Link data and tables to graphical simulation database	•	•	•	
· Interact with model during simulation run	•	•	•	
· Template library with pre-fabricated model segments	•	•	•	
· Animation of objects moving through model	•	•	•	
· Model verification tools with a mouse-click	•	•	•	
· Manage units for rate-based systems	•	•	•	
· Animated flow conveyor density and accumulation	•	•	•	
· 3D editor for creating virtual environments	•			
HIGH PERFORMANCE MODELING				
· COM/ActiveX - control of and by other applications	•	•	•	
· Exchange data via the Internet	•	•	•	
· Integrated relational databases for data mgmt. and control	•	•	•	
· ODBC/SQL direct linking to external databases	•	•	•	
· Agent Based and State/Action models	•	•	•	
· Scalability - build, view, and run models of any size	•	•	•	
· Customizable queuing algorithms	•	•	•	
· Item templates for fast model building	•	•	•	
· Message-based discrete event architecture	•	•	•	
· Initialize queues at simulation start	•	•	•	
· String, value, and database item attributes	•	•	•	
· Discrete rate simulations for high speed processes	•	•	•	
· Integrated and unlimited setpoints for rate-based systems	•	•	•	
· Cutting edge 3D animation of your process	•			
ADVANCED ANALYSIS				
· Evolutionary Optimizer - fully integrated	•	•	•	
· Statistical analysis with confidence intervals	•	•	•	
· Hot link interactively to MS Excel	•	•	•	
· Warm-up periods with statistical clearing	•	•	•	
· Sensitivity analysis for exploring alternatives	•	•	•	
· Activity Based Costing for financial outcomes	•	•	•	
· Easily summarize statistics for queues, activities, & resources	•	•	•	
· Detailed information on activity states	•	•	•	
· Gantt charts for analyzing system components	•	•	•	
· Import fitted distributions directly from Stat::Fit	•			
DEVELOPER POWER				
· Development environment optimized for simulation	•	•	•	
· Build libraries of new blocks and components in any field	•	•	•	
· Call DLLs and Shared Libraries written in other languages	•	•	•	
· Compiled for speed with over 1,100 functions	•	•	•	
· Create wizards for tasks or to interact with users	•	•	•	
· Interactive source code debugger with breakpoints	•	•	•	
· Open source libraries of blocks	•	•	•	
· Exposed database API	•	•	•	
· Open source discrete event technology	•	•	•	
· Advanced LP solver technology	•	•	•	
· Exposed 3D animation API	•			

* Call for network (concurrent-user) license pricing.

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