If you thought that building complex models for simulation or discrete analysis would require buying ridiculously expensive software and then writing code on top of that... we have good news for you!

ReliaSoft RENO is a powerful and user-friendly platform for building and running complex analyses for any probabilistic or deterministic scenario using an intuitive flowchart modeling approach and simulation. You can create flowchart models for complex reliability analyses, risk and safety analyses, decision making or maintenance planning.

**Benefits**

- Use flowchart simulation to model complex scenarios and forecast performance under a variety of different design and usage scenarios
- Perform sensitivity analysis to evaluate how key inputs will affect the results
- Automatically estimate optimum values by performing multiple simulation runs with different variables
- Wide range of applications for risk/safety analysis, complex reliability modeling, decision making, maintenance planning, optimization, operational research and logistics, etc.
RENO software highlights

Potential Applications
If you can flowchart it, you can simulate it! Some examples include:
- Risk/Safety Analysis
- Complex Reliability Modeling
- Decision Making
- Maintenance Planning
- Optimization
- Operational Research
- Financial Analysis

Easy to Build Flowchart Models
- Flowchart Blocks
  - Standard Blocks
  - Result Storage Blocks
  - Conditional Blocks
  - Binary Nodes
  - Logic Gates
  - Branch Gates
  - Summing Gates
  - Flag Markers and Go To Flags
  - Counter Blocks
  - Reset Blocks
  - Stop Flags
  - User Interface Blocks
  - Subchart Blocks
- Resources
  - Variables
  - Functions
  - Static Functions
  - Simulation Definitions (for use with BlockSim)
  - Tables
  - Models (created in RENO or in other Synthesis applications)
- Excel®-compatible Spreadsheets
- Integrated Run-Time Debugger
  - Step through the flowchart
  - Watch simulation proceed in “debug” mode

Equation Building Utilities
- Internal Functions
- Predefined Functions
  - Engineering
  - Math and Trigonometry
  - Financial
  - Statistical
  - Logical
- Function Selector & Equation Editor
  - to save time and reduce errors
- Color-Coding
  - for resources, functions and operands
- Resource Preview
  - see variable definitions as you type

Simulation Results
Display results during execution, in Excel®-compatible spreadsheet and or directly in the flowchart.
- Averages
- Sums
- Normalized Sums
- Arrays
- Minimum/Maximum Values
- Last Values (at the end of the simulation time)

Plots
- Plot a result against 1 or 2 varied constants
- Compare one result against another
- Plot results against the cumulative probability of the values
- Display results values in pie charts and bar charts

Sensitivity Analysis
- Vary one or two values across a set of simulation runs
- Analyze how different inputs will affect the final results

Optimization
- Automatically vary one or two constants within a given range
- Find the value(s) that minimize or maximize a specified result

Synthesis Integration
- Use BlockSim diagram results in RENO flowcharts
- Use RENO flowcharts to simulate response data for Weibull++
- Use models created from analyses performed in other Synthesis applications
- Transfer array of results to Weibull++

Multiple Languages Supported
For details, please visit:
http://www.reliasoft.com/languages

Available Services
- Detailed User Documentation
- Practical Example Files
- Quick Tour Guide
- Training for Theory + Software
- Professional Consulting Services

For more information visit: http://reno.reliasoft.com

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