

# BROADLEAF CAPITAL INTERNATIONAL PTY LTD

ACN 054 021 117

23 Bettowyn Road  
Pymble  
NSW 2073  
Australia

www.Broadleaf.com.au

Tel: +61 2 9488 8477  
Mobile: +61 4 1943 3184  
Fax: +61 2 9488 9685  
Cooper@Broadleaf.com.au

*Specialists in Strategic and Project Risk Management*

## @RISK 4.0

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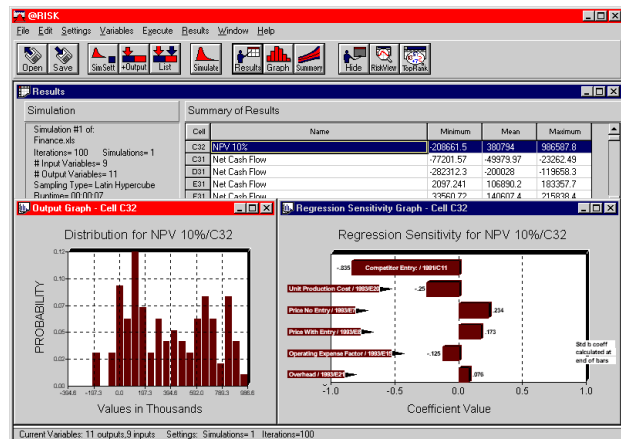
Product Section: Risk Analysis  
Operating System: Windows, DOS, Macintosh - Add-in for Excel, Lotus 1-2-3  
Palisade Product #: #1001 (Lotus 1-2-3 r2.x for DOS), 1002 (Lotus 1-2-3 r3.x+ for DOS);  
1004 (Excel for Mac); 1005 (Excel for Windows); 1005I (International Version);  
1008 (Developer's Kit) 1009 (Lotus 1-2-3 for Windows)  
Retail Price: Email Broadleaf Capital International for latest prices in Australia and NZ, on  
Cooper@Broadleaf.com.au

*Thank you for requesting information on @Risk from Palisade Corporation. Please call us at 02 9488 8477, or email us at Cooper@Broadleaf.com.au if you have further inquiries or wish to place an order.*

### @RISK

@RISK is the Risk Analysis and Simulation add-in for Microsoft Excel® or Lotus® 1-2-3. Add the power of Monte Carlo simulation to your spreadsheet models. Simply replace uncertain values in your spreadsheet with @RISK functions which represent a range of possible values. Select bottom-line cells, like Total Profits, as outputs, and start a simulation. @RISK recalculates your spreadsheet hundreds or even thousands of times, each time selecting random numbers from the @RISK functions you entered.

The result: distributions of possible outcomes and the probabilities of getting those results! This not only tells you what could happen in a given situation, but how likely it is that it will happen.



**@RISK is a Risk Analysis breakthrough!**

### Risk Analysis

Risk Analysis, in a broad sense, is any method — qualitative and/or quantitative — for assessing the impacts of risk on decisions. A myriad of Risk Analysis methods are used that blend both qualitative and quantitative techniques. The goal of any of these methods is to help the decision-maker choose a course of action, given a better understanding of the possible outcomes that could occur. You might wonder if what you do would be suitable for Risk Analysis. If you use data to solve problems, make forecasts, develop strategies, or make decisions, then you definitely should consider doing Risk Analysis.

### Risk Analysis With @RISK

Risk Analysis in @RISK is a quantitative method that seeks to determine the outcomes of a decision as a probability distribution. In general, the techniques in an @RISK Risk Analysis encompass four steps:

- **Developing a Model** - by defining your problem or situation in Excel or 1-2-3 worksheet format
- **Identifying Uncertainty** - in variables in your Excel or 1-2-3 worksheet and specifying their possible values with probability distributions, and identifying the uncertain worksheet results that you want to analyze.

- **Analyzing the Model with Simulation** - to determine the range and probabilities of all possible outcomes for the results of your worksheet
- **Making a Decision** - based on the results provided and personal preferences

@RISK helps with the first three steps, by providing a powerful and flexible tool that works with Excel or 1-2-3 to facilitate model building and Risk Analysis. The results that @RISK generates can then be used by the decision-maker to help choose a course of action.

### @RISK for Windows

@RISK is a direct add-in for Microsoft Excel or Lotus 1-2-3 for Windows. @RISK integrates seamlessly with your spreadsheet program via a new toolbar and functions. If you can use a spreadsheet, you can use @RISK!

You start by representing uncertainty in your spreadsheet. Select a cell and replace its value with one of 37 @RISK probability distribution functions which represents a range of possible values. Available distribution types include:

Beta	Erlang	Logistic	PERT
Beta-Subjective	Exponential	Log-Logistic	Poisson
Binomial	Extreme Value	Lognormal	Rayleigh
Chi-Square	Gamma	Lognormal2	Student's t
Correlations	General	Negative Binomial	Triangular
Cumulative	Geometric	Normal	Uniform
Discrete	Histogram	Pareto	Weibull
Discrete Uniform	Hypergeometric	Pearson V	
Error Function	Inverse Gaussian	Pearson VI	

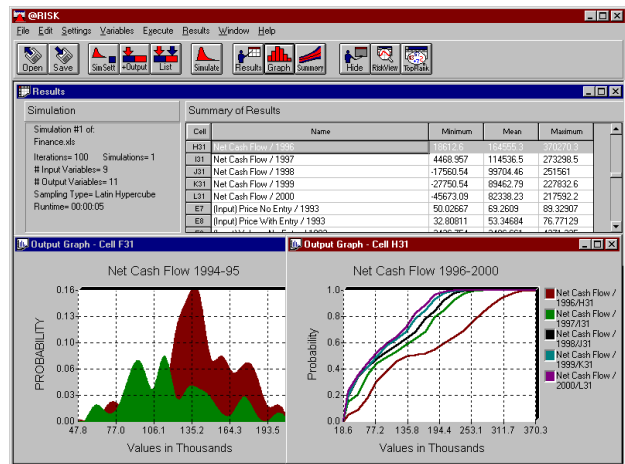
Next, select the cell or cells whose values you are interested in (such as Total Profit) and click the Add Output button in the @RISK toolbar. Then, click the Simulate button. @RISK recalculates your spreadsheet hundreds or thousands of times, each time selecting random numbers from the @RISK functions you entered. Each recalculation shows a possible combination of uncertain values or a "scenario" that could occur. The values for the output cell(s) are collected. At the end of the simulation, your results are displayed in the @RISK window.

### Dazzling Graphs

High resolution graphics are used to present the results from your @RISK simulations. Histograms, cumulative curves, summary graphs for cell ranges - all lead to a powerful presentation of results. Select the type of graph, then customize it by selecting colors and creating titles. All graphs may also be displayed in Excel or 1-2-3 format for further enhancement and hard copy.

### Accurate Statistics

The Simulation Statistics window contains statistics for all outputs displayed in a spreadsheet-like format for easy viewing. All the basic statistics you would expect are here. You can also enter Target values and find the likelihood of achieving them. This is especially useful for answering questions such as "What is the chance of a result greater than a million?" or "What is the likelihood of a negative outcome?" You can cut and paste this information to other applications, or have @RISK generate a full statistical report in an Excel or Lotus 1-2-3 spreadsheet.



*Generate overlay graphs in @RISK for Windows!*

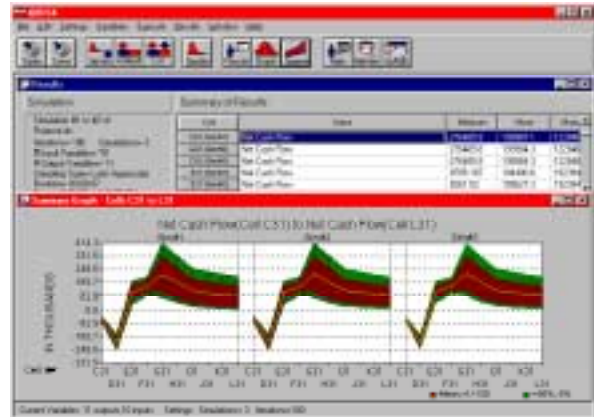
## Advanced Features

@RISK for Windows performs two additional advanced analyses: Sensitivity Analysis and Scenario Analysis. Sensitivity Analysis determines which input distributions have the biggest impact on the outputs. The results can be displayed as an easy-to-interpret Tornado chart, with longer bars at the top representing the most significant input variables. Scenario Analysis identifies combinations of inputs which lead to output target values. This allows simulation results to be characterized by statements such as "when Profit is high, significant inputs are low Operating Cost, very high Sales Price, high Sales Volume, etc."

## Innovations in @RISK for Windows

Do you use Windows 95 or Windows NT? @RISK for Windows 95 is a true 32-bit add-in to the latest version of Excel for Windows 95. Take advantage of the speed and power of Windows 95 in your @RISK models! An essentially unlimited number of output distributions may be generated from a single simulation - allowing for the analysis of even the largest and most complex spreadsheets!

All versions of @RISK for Windows (Excel and Lotus, 16- and 32-bit) allow you to overlay your graphs for easy visual comparison. Generate multiple summary graphs containing results from several simulations in one graph!



*@RISK for Windows's graphics show multiple simulation results in one graph!*

## @RISK for Windows Features

- True Spreadsheet Add-In
- Toolbar Interface
- 37 Distribution Functions
- Convergence Monitoring
- Histogram, Area, and Cumulative Graphs
- Summary Graphs
- Multiple Summary and Overlay Graphs
- Full Statistics Report
- Sensitivity Analysis - Multivariate Stepwise Regression and Rank Order Correlation
- Tornado Graphs
- Scenario Analysis
- Fully Customizable Graphs
- Graph in Excel/1-2-3
- Reports to Worksheet
- Macros - Execute During Simulation
- Macros - Control @RISK via Macros
- Fully Integrated With DecisionTools Suite: @RISK, BestFit, TopRank, PrecisionTree, and RISKview

## Use with the DecisionTools® Suite

@RISK was designed to work with our other **DecisionTools® Suite** products — **TopRank®**, **RISKview™**, **BestFit®** and **PrecisionTree®**. Start by using TopRank, the What-If Analysis add-in for Excel or Lotus 1-2-3 for Windows, to identify the critical values in your model. Next, in @RISK, replace those values with @RISK probability distribution functions. Use RISKview to preview these distributions or create one by simply drawing it and placing it directly in @RISK. Take real-world data and use BestFit to find the distribution which best fits your data, and use that function in @RISK to realistically represent uncertainty. Then run a thorough Monte Carlo simulation and analyze the results! Create a decision tree with PrecisionTree to accurately describe a decision, and use @RISK to perform a Monte Carlo simulation on your decision tree! With the DecisionTools Suite, you will be prepared to face the risks in any situation!

## @RISK Applications

- Capital Budgeting
- Chemical Process Engineering
- Corporate Planning
- Cost Analysis
- Engineering Reliability
- Environmental Impacts & Policy
- Foreign Exchange Modeling
- Health Risk Assessment

- Insurance
- Mergers & Acquisitions
- Mortgage Pricing
- Operations Research Analysis
- Petroleum and Mining Resource Evaluations
- R&D Assessment
- Toxicological Analysis
- And More!

### Add @RISK To Your Custom Applications With The @RISK Developers Kit!

The @RISK Developers Kit (RDK) contains a callable library of functions that allow you to add @RISK capabilities to your own application written in C, Visual Basic, or other programming languages. You can add uncertainty to your program using any of @RISK's 37 probability distribution functions. Input distributions can be correlated and Latin Hypercube and Monte Carlo sampling are available. The RDK's pre-built templates and examples make it easy to set up and execute a simulation directly in your own application. The RDK stores all data for you during a simulation, monitors the convergence of your outputs, and processes all data from your runs. Once a simulation is complete you'll get exactly the same graphs and reports you get in @RISK itself, including Sensitivity and Scenario Analysis, in the same @RISK interface! The RDK also allows OLE automation of @RISK for Excel. Call us for more details!

### International Versions Available!

@RISK is also available in French, German, and Spanish. These International versions of @RISK are identical in use and features to the latest English version of @RISK for Excel. The user's guide, menu commands, dialog boxes, and Help files have been completely translated. @RISK is now more accessible to International users and easier to learn than ever before! Call our Technical Sales Team for details!

"Monte Carlo simulation represents a significant advance in the black art of modeling the future. [...] Monte Carlo technology will make us — and our clients — a little smarter about what we can and cannot know about tomorrow and the days that follow."

*Robert Veres, "Dow Jones Investment Advisor" May 1996*

"My client's @RISK for Window 95 model runs in Excel 7.0, is 6MB in size, and has 480 inputs spanning 74 worksheets. When run on a Pentium 150, the model ran in a matter of minutes, tracking more outputs than ever before possible!"

*Dr. Sam Sugiyama, Economic and Engineering Consultants*

"@RISK... takes the 'if' out of what-if situations and lets business users make more intelligent decisions."

*John Taschek, PC Week*



**System Requirements:** IBM PC compatible 486 or higher; Microsoft Windows 95, NT or 3.x; Microsoft Excel 5.0, 7.0 (95) or 8.0 (97); Lotus 1-2-3 for Windows release 4.0 or 5.0; 4MB RAM free.

**Recommended:** 486 or higher CPU; Windows 95; 8MB RAM installed.

**Pricing and Availability** Email Broadleaf Capital International for latest prices for clients in Australia and New Zealand. International, network, volume, and academic pricing available.

**Technical Support:** Free, unlimited technical support

**Other Versions Available:** Lotus 1-2-3; Macintosh Excel; International @RISK (French, German, or Spanish), @RISK Developer's Kit

**Demo:** Free demo CD available, please fax or email your request to Cooper@Broadleaf.com.au, stating the kinds of applications in which you are interested. For additional information, visit our web site at [www.Broadleaf.com.au](http://www.Broadleaf.com.au)