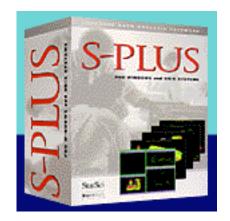
Platform: Windows

Available for ground shipment



Call S-PLUS Sales at 1-800-569-0123 for pricing.

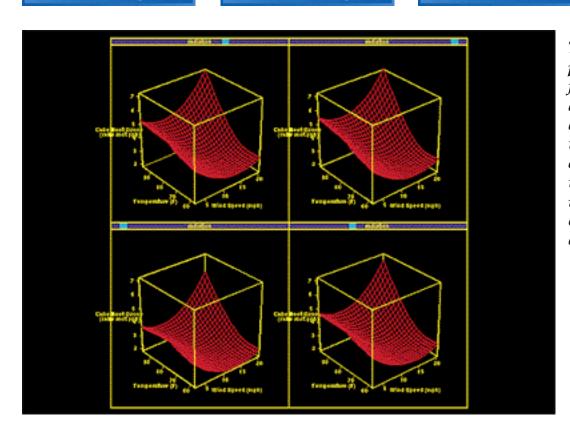
This advanced data-analysis software delivers control, clarity and confidence to your data analysis. Its object-oriented environment provides concrete benefits that traditional, procedural language analysis programs simply can't match. Every data set, function, or analysis model is treated as an object, which makes it easy to examine and explore data, run functions one step at a time, and visually compare models for fit. S-PLUS employs an interactive analysis process, giving you immediate feedback at every stage of analysis. And because you can visually explore and analyze data or data subsets, S-PLUS helps you develop a complete understanding of our your data.

Features & Specs

Product Sample

Screen Shots

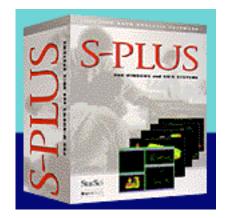
Back to Product List



Trellis graphics is a powerful new paradigm for understanding relationships in multidimensional data. This technique goes far beyond conventional display techniques to create insight and understanding of multi-dimensional data.

S-PLUS gives you the flexibility to fit alternative models using different fitting methods in a unified programming environment. It's graphics are integrated into the data analysis process, helping you understand your data quickly and evaluate which models give the best results. S-PLUS includes both classical and modern techniques, so you can quickly determine the best fitting models for your data. And all the documentation is included.

FEATURES & SPECS (page 1 of 5)



Interactive analysis, with step-by-step feedback Built-in, true object-oriented language

S-PLUS supports object classes, inheritance, generic functions, and methods Operators and functions work on scalars, vectors, arrays

Structured language, including for, while, next, repeat, break

Logical operators, including >, >=, <, <=, ==, !=, &, if else, all, any

Sophisticated operators for assigning, extracting, replacing parts of objects

"list" object contains structured arrays of dissimilar items

"Merge" function for intregrating data sets

"By" and "Aggregate" functions for analyzing specific variables for each of the various levels of another variable

Write your own functions for specific analyses

Modify any of the 1,650 provided functions

Interface with C and FORTRAN programs

Use as front-end for commercial libraries (IMSL, NAG, etc.)

Dynamic (run-time) and static loading of user-written C or FORTRAN programs

Dynamic loading of Dynamic Link Libraries (DLLs) in Windows

Interface with operating system

Spawn subprocesses

Access to operating system editors

Pass data to / from operating system and other applications

Input/Output

ASCII files

Input data from keyboard

Input binary files through user-written FORTRAN or C programs

Interactive data editor

PostScript and HPGL output

Support for all MS Windows printer drivers

Import/Export data frame from Excel and Lotus 1-2-3

spreadsheets in Windows

Import/Export data from dBase or any other ODBC supporting drivers in Windows

Product Sample

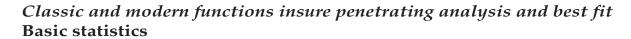
Screen Shots



FEATURES & SPECS (page 2 of 5)

Help and Documentation

Interactive point-and-click help system Extensive documentation Command line recall and editing Telephone and e-mail Helpline



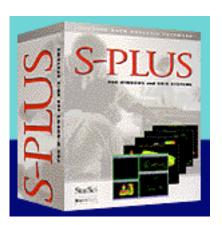
Descriptive summary statistics Student's t-test Chi-square test Wilcoxon rank sum test Binomial test Mantel-Haenszel test Probability distributions

Multivariate statistics and graphics

Hierarchical clustering
k-means clustering
Model-based clustering
Tree classifiers
Log-linear contingency table analysis
Minimum spanning tree
Principal components
Factor analysis
Canonical correlation
Multi-dimensional scaling
Chernoff's faces
Star-symbol plots
Dendogram plot of cluster-tree
Scatterplot matrices

Mathematical computing

Vector and matrix operations, +, *, etc. Eigenanalysis Invert matrix and solve linear equations Singular value and QR decompositions



Product Sample

Screen Shots

FEATURES & SPECS (page 3 of 5)

IEEE special values supported Interface to LAPACK for numerical linear algebra

Determinants, matrix norms, and conditional estimation

Linear equation solvers for underdetermined, square and least squares problems

Quality control charts

Shewhart charts

Cusum charts

Charts based on xbar, s, np, p, c, u

Regression and ANOVA

Linear least squares

Nonlinear least squares

Balanced and unbalanced ANOVA

Stepwise regression

Least trimmed squared residuals regression (high breakdown point robust regression)

Generalized linear models

Generalized additive models (GAM)

Residual deviance (for model comparison)

ACE and AVAS regression models

Projection pursuit regression

M-estimates of regression

Tree-based regression

Survival analysis

Kaplan-Meier and Fleming-Harrington curves

G-rho survival curve tests

Parametric survival models

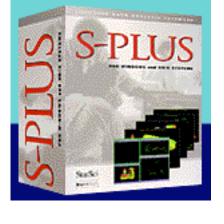
Cox proportional hazards models for time dependent covariates, multiple events and discontinuous intervals of risk

Formula-based model specification

National rate tables for age and sex matching of subjects to estimate expected survivalcurves

Product Sample

Screen Shots





FEATURES & SPECS (page 4 of 5)

Time series/signal analysis

Autocorrelation

Autoregression models (classical and robust)

ARIMA models

Linear filters

Complex demodulation

Spectral analysis

Fourier transformations

Smoothing: wide variety of robust and classical smoothers and filters

Integrated graphics help you determine which analysis methods to apply Interactive graphics/Data visualization

Multiple graphics windows

Location of graphics via mouse

Point identification using mouse

User-definable color maps

Interactive color map save/load

3D data spinning

Scatterplot matrix brushing with optional marginal histogram

Condition on different levels of an underlying variable

Formula-based display specification with conditioning on factors or continuous variables

Multi-paneled displays with flexible control over axes and aspect ratios

"Banking" computations that let the data select the aspect ratio

3D plotting

Contour plot

Data spinning

Mesh surface with user-selected perspective

Image plots (pixel data representation, color or gray scale)

Scatterplot matrix brushing

2D plotting

X-Y scatterplots

Time series plots

Box plots, pie charts, histograms, bar plots, dot charts

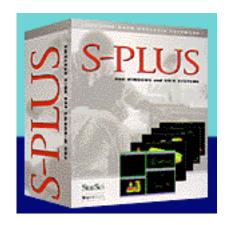
Overlay multiple plots or display side-by-side

Product Sample

Screen Shots



FEATURES & SPECS (page 5 of 5)



Log and linear axis scaling Control over line style, marker type, colors, labels, tick marks, text, fill pattern USA maps General mapping functions

Windows GUI features

Options can be specified in a user-friendly dialog box

Object brower to interactively display filter type and select S-PLUS objects

Command history window displays all commands, which can be selected, executed, edited or saved to a file

DDE serve support allows applications to send commands to S-PLUS and receive results, e.g. Visual Basic or

Visual C++ interface applications

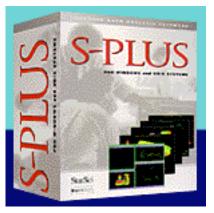
GUI functionality including: dialog boxes to interactively enter arguments to S-PLUS functions, customizable menus to generate S-PLUS commands, customizable dialog boxes and controls

Product Sample

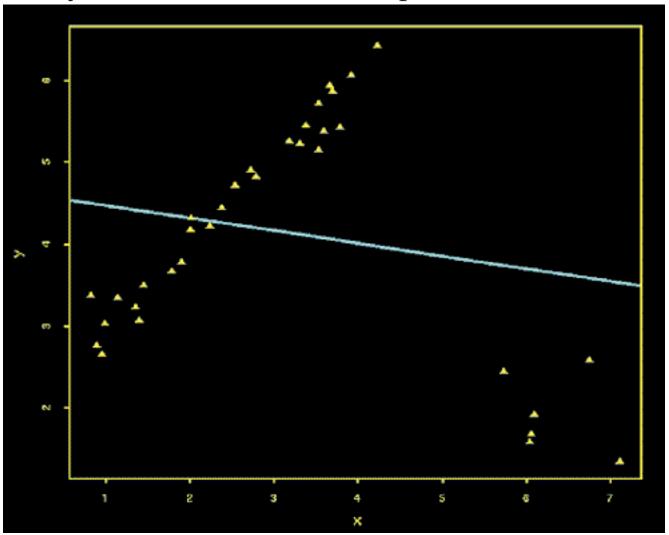
Screen Shots



SAMPLE PAGE (page 1 of 3)



Does your software make this simple mistake?



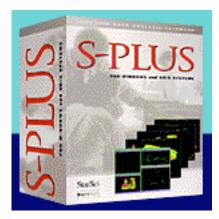
If the answer is "yes" or "maybe," take this opportunity to find out how the robust methods in S-PLUS will make a difference in your analysis.

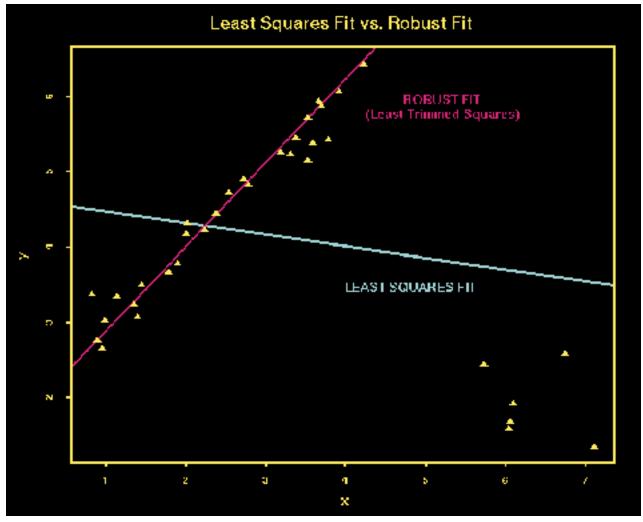
Any software using ordinary least squares will produce a misleading fit, such as the one shown in this simple example. The problem is even worse with two or more predictor variables, where such meaningless fits are difficult to detect graphically. The robust linear modeling methods in S-PLUS, like least trimmed squares, give a much better fit to the dominant data pattern, while revealing the outliers or unusual parts that deserve further exploration.

Features & Specs

Screen Shots

SAMPLE PAGE (page 2 of 3)





S-PLUS incorporates the S language developed at AT&T Bell Labs, the only modern, object-oriented language created specifically for data exploration and analysis. Designed by the founders of the Exploratory Data Analysis school of thought, inspired by J.W. Tukey, this interactive language environment gives you immediate feedback at every stage of your analysis. So you have complete control and confidence in your results.

Features & Specs

Screen Shots



SAMPLE PAGE (page 3 of 3)

S-PLUS S-PLUS

S-PLUS is a true object-oriented language.

As a true object-oriented language, S-PLUS handles all data, functions and fitted models as objects. The inherent flexibility of S-PLUS allows you to fit alternative models using both classical and modern methods. And all your output is available for input in subsequent operations, making it easy to carry out further analysis, determine the best fitting methods, and select optimum models. S-PLUS includes over 1,650 functions for performing and managing data analysis and also allows you to modify and create functions to suit your analysis. S-PLUS provides the most comprehensive set of robust and modern methods available anywhere. These methods include: robust linear regression, robust auto regressive modeling and smoothing, robust loess curve fitting, robust covariance matrices, tree models for regression and classification, generalized additive models, projection pursuit models and adaptive curve fitting. Also, over 150 cutting edge S-PLUS functions developed by leading researchers, scientists and statisticians can be accessed electronically.

S-PLUS incorporates Trellis graphics.

S-PLUS incorporates Trellis graphics, a powerful new paradigm for understanding relationships in multi-dimensional data also developed at AT&T Bell Labs. Central to trellis displays is the notion of conditioning: displaying one variable conditional on the values of two or more variables in the form of a grid-like, multi-paneled trellis. This technique goes far beyond conventional display techniques to create insight and understanding of multi-dimensional data.

Do not get left behind.

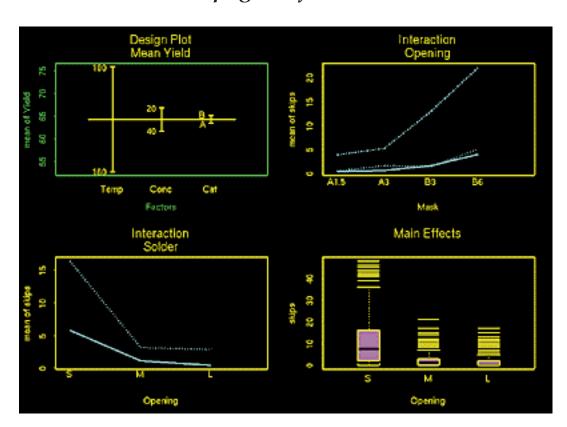
If you are not using S-PLUS, know that your peers and competitors are. For example, leading pharmaceutical companies, investment banks, GIS research organizations, universities and government research departments rely on S-PLUS for complex analysis problems.

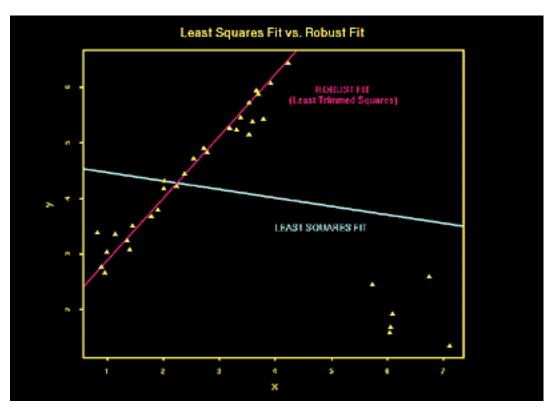
Find out why the world's leading researchers are depending on S-PLUS. Complete control. Penetrating insights. Thorough analysis. And quality results. When you need to be certain, you need S-PLUS.

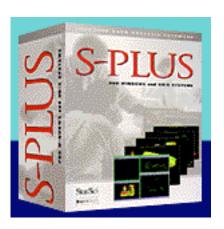
Features & Specs

Screen Shots

SCREEN SHOTS (page 1 of 1)







Features & Specs

Product Sample