

SYSTAT SOFTWARE INTRODUCES SYSTAT 12 PROVIDING USERS WITH A COMPREHENSIVE STATISTICAL ANALYSIS SOFTWARE PACKAGE

San Jose, Calif. – February 21, 2007 – Systat Software, Inc., a leading developer and supplier of award-winning scientific software and services, today introduced SYSTAT 12, providing scientists and professional researchers advanced statistical and graphical capabilities with improved ease-of-use and analytical efficiency.

SYSTAT 12 continues the legacy of Dr Leland Wilkinson, who created SYSTAT over twenty years ago and who pioneered programmable graphs for statistical visualization. SYSTAT 12 continues this tradition of state-of-the-art intelligent statistical graphing with significant graph enhancements, including greater interactivity, editability and customizability. This version also makes major strides in ease of use with an exciting and attractive interface that is customizable and containing many innovative features. And continuing its reputation of well-thought-out analytics, SYSTAT 12 contains major new statistical features which include Mixed Model Analysis, more Robust Regression procedures, Partial Least Squares Regression, Response Surface Optimization, many new probability distributions, and many more features. These put SYSTAT at the leading edge of professional statistical analyses. It is not only a package for the statistically-savvy scientist, but is also accessible to a novice data analyst Its output is stunning and is in a form ready to submit for publication. Also, keeping to its long-standing reputation for some of the finest documentation and training material available in any statistical package, SYSTAT 12 adds about 900 new pages of additional material, much of it useful in educational environments.

“SYSTAT has demonstrated once again that it is the package for the serious thinking statistician, but accessible to nearly anyone who can use a drop down menu. SYSTAT was the first to have a GUI and proves yet again that it still leads all other packages in interface technology. No matter what package a statistician regularly uses, it’s worth having a copy of SYSTAT, as well, if for no other reason (and there are plenty), for its first-class and unequalled graphics, which are even more customizable than before. SYSTAT 12 will clearly prove to be the best value of the major statistical packages on the market today.”

Robert T.Brennan, Ed.D.
Harvard Medical School

“..... The customizability of the interface extends far beyond that of most statistics programs, enabling users in different fields to tailor SYSTAT to their needs. The implementation of value and variable labeling equals or surpasses that of the best survey research tools. In fact, as one examines the program, it is difficult to find any element of SYSTAT that hasn't been thoughtfully improved. I've analyzed large data sets from national surveys for thirty years on a number of statistical platforms, and I would recommend SYSTAT V12 to anyone. I use it daily and ignore the other packages on my desktop.”

Carl Desportes Bowman
Professor of Sociology, Bridgewater College Survey Director, Institute for Advanced Studies in Culture, University of Virginia

SYSTAT 12 New Features

Strong Additions to Statistical Repertoire

The **Mixed Model** feature provides analysis of a variety of linear mixed models such as **Variance components** models and **Hierarchical mixed** models, producing different types of estimates of fixed and random effects parameters and variance components, with standard errors, confidence intervals and tests of hypotheses. Many types of dependent and heteroscedastic data such as repeated measures, growth curves and longitudinal data can be analyzed with this feature.

The **Robust Regression** feature adds two new procedures to the existing suite. They are:

Least Trimmed Squares (LTS) which is based on minimizing the smallest sum of squared residuals of h out of n data points; and **Scaled (S)** whose estimate is based on the scale estimator of residuals. Here SYSTAT finds robust estimates; weights the cases and gives weighted least-squares estimates.

The **Partial Least-Squares (PLS) Regression** method extracts latent factors of both the response and predictor variables from the data and then fits a regression equation of the response factors on the predictor factors. SYSTAT offers two most popular algorithms, viz., **Nonlinear Iterative Partial Least-Squares (NIPALS)** algorithm and the **Straight-forward Implementation of Partial Least-Squares (SIMPLS)** algorithm. The standard errors of the estimated regression coefficients are calculated by the Jackknife procedure. Crossvalidation procedures are used to validate the fitted regression model.

In the **Response Surface Optimization (RSM)** feature, factor-response data from well-designed experiments are used to fit a second degree response surface, using which optimal factor settings are computed. To optimize a combination of responses, desirability analysis is provided. SYSTAT gives desirability plots as quick graphs. SYSTAT also provides ridge analysis to help find the direction of the optimum when the above techniques do not lead to the optimum.

In an enhancement to its **Cluster Analysis** feature, SYSTAT provides new linkage methods such as **flexible beta, weighted linkage, uniform and kernel**. Five new **cluster validity indices** have been added. A **k-medians** procedure has been added. Facilities for **cutting cluster trees** based on leaf nodes and tree heights have been provided.

Other new features are: **Trend Analysis** in Time Series, several new **Probability Distributions** for which probability calculations can be done, from which random samples can be drawn, and which can be fit to data. Some new **association measures** have been added for various types of data. Several new **multiple comparison procedures** have been added. **Multivariate skewness and kurtosis** can now be computed and **multivariate normality** can be tested. In Analysis of Variance updates, various **types of sums of squares** can be computed and various **standard types of contrasts** can be computed and tested. Whenever models are fit by SYSTAT, values of **Akaike and Bayesian Information Criteria (AIC, AIC corrected, and BIC)** are produced in the output. In the Descriptive Statistics, Correlation, and Regression features, analysis of bootstrap samples can be carried out producing **bootstrap estimates** with standard errors and confidence intervals.

Unmatched Graphics Made Easier to Use

SYSTAT provides a large variety of scientific and technical graphing types, which helps you to produce the right type of graph for every need. Its **Interactive Graphics Dialog** can be used to change multiple aspects of your graphics using a single integrated dialog. You can compare subgroups, overlay charts, transform coordinates, add geographic projections, change colors, symbols, and more, to create insightful presentations. You can change graph locations, point-and-click to alter axis labels, scales, colors and symbols. You can speed up your analysis by rotating your 3-D graphs to visually determine the perfect power or log transformation to normalize your data using the **Dynamic Explorer**. You can present visually useful and attractive summary of large data using **hexagonal binning**.

Powerful New Data Manipulation Features

SYSTAT provides innumerable data manipulation features to get your data in the right form for the intended analysis. With a simple menu-dialog you can transform, sort, trim, center, standardize, select, rank, label, group, reshape, or weight your data. Your data file's value can be enhanced with additional information such as study details, variable information, variable labels, value labels, processing conditions, etc. You can save effort using **undo** and **redo** in the Data Editor up to 32 steps in the same session. You can increase data accuracy with **widened data field** of (23, 15). You can name your variables, including string variables, using up to **256 characters**. You can obtain basic **variable statistics** and **histogram** from the Variable Properties dialog.

Attractive, Innovative, and Customizable Interface

You can now **customize menus** and **toolbars** to tailor to your needs. Speed up your work with the friendly menu-dialog or with the **streamlined intuitive command language** or a combination thereof. Quickly navigate through detailed results using the **Output Organizer**. Instantly access recent multiple data sets, command scripts, and output, as also pdf files of manuals from **informative Startpage**. Access from Startpage, a menu of your choice from a few alternative **theme menus**. Save time and avoid errors with the **autocomplete facility** for file names, variable names, and main command names. **Import** and **export** files in other formats with ease. Savor the smart output view and stunning and **publication-quality output**---html or classic.

"I have found SYSTAT 12's ability to facilitate the capturing, transferring and integrating results as a major new benefit in data analysis," says Eugene B.Lieb, President, Custom Decision Support, Inc. "It often takes more time and effort to compile statistical results than to perform the actual analysis. SYSTAT 12's superb range of tools, ease of use, exceptional graphics and the new user friendly interface makes it, for me, the preferred statistical tool for marketing analysis."

About Systat Software, Inc. (www.systat.com)

Headquartered in San Jose, California, Systat Software is a leading developer of specialized scientific software products for data analysis, technical graphing, and presentation. Systat Software's global reach across 38 countries is backed by technical support centres in key geographies such as the US, UK, Germany and India.

Systat's core development team is headed by world-renowned statistician Prof. T. Krishnan. This team comprises of key researchers and statistical analysts who continuously work towards enhancing products to provide specialized domain expertise to their customers.