

# Systat Software Releases SigmaStat 4.0

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*Systat Software Inc a leading developer and supplier of award-winning scientific software and services today announced SigmaStat version 4.0.*

SAN JOSE, CA, UNITED STATES, February 4, 2016 /EINPresswire.com/ -- San Jose, Calif., —Monday February 1, [Systat Software](#) Inc a leading developer and supplier of award-winning scientific software and services today announced [SigmaStat](#) version 4.0 the latest version of their statistics software package designed to help scientists and engineers work their way through sometimes complicated and terminology-rich statistical procedures.

This version has multiple new statistical procedures including Principal Components Analysis (PCA), One-Way Analysis of Covariance (ANCOVA) with multiple covariates, Deming Regression and Cox Regression. New user interface additions include the ribbon interface, right-click mouse menus and drag and drop of items in the Notebook Manager.

36 new probability distribution functions are added to the transform language and generalized weighting has been added to nonlinear regression to allow use of user-determined error distributions and to enable robust fitting techniques. New graphs include profile plots for multi-factor ANOVA and normality test graphs. A new graph properties dialog makes editing graphs much easier with instant redraw when properties are changed. Of course all the previous features are there that assist the user selecting and running the correct test and in obtaining and understanding the results that they get.

More than 200,000 scientists and engineers have used SigmaStat worldwide. John Wass, PhD, reviews it as "...simple with useful tools and many explanations, both in the manual and within the program. It is the ideal program for the statistical novice!" Its approach has been called Advisory Statistics because it helps determine the correct test to use and then automatically examines the data to see if it satisfies the statistical assumptions. The updated SigmaStat4.0 adds multiple new analysis methods to extract additional information from the data.

Principal Components Analysis (PCA) finds variables that succinctly describe the data. Analysis of Covariance (ANCOVA) improves the description of the data by including the effect of important "nuisance" variables. A total of 36 probability functions have been added that can be used for function fitting or curve visualization. Graphical visualization of PCA results is enabled with Scree, Component Loadings and Component Scores plots. Similarly, graphs of adjusted means with confidence intervals and regression lines for groups have been added for ANCOVA.

New SigmaStat 4.0 Features, Enhancements and Capabilities

The important new features of SigmaStat version 4.0 are:

## User Interface

- Ribbon interface to improve access to commands
- Right-click mouse menus for easy access to commands for a graph page and report
- Drag-n-drop of items in the notebook manager for better organization of results

## New statistical procedures

- Principal Components Analysis (PCA)
- One-Way Analysis of Covariance (ANCOVA) with multiple covariates
- Cox Regression
- Deming Regression
- Odds Ratio and Relative Risk
- One-sample parametric and non-parametric T-tests
- Shapiro-Wilk Normality Test
- Enhancements to multiple comparisons to add P-values for Post-hoc testing of non-parametric ANOVAs and to allow the user to define arbitrary values for the significance level when doing Post-Hoc testing for any ANOVA

### Transform Language Enhancements

- 36 new functions for computing probability distributions
- New functions for solving implicit function equations
- Quick Transform dialog

### Nonlinear Regression Enhancements

- New wizard interface
- Uses equation items in a notebook in addition to .fit files to define fit models
- A fit library containing a number of predefined fit models
- New graphing features in regression, including confidence bands
- Weighted regression, using constant weights or weights that are functions of the regression parameters - iterative reweighting – that allows the user to apply robust regression techniques
- Akaike Information Criterion for comparing the performance of fit models
- New settings in the configuration file stat32.ini to improve the convergence and accuracy in curve fitting for difficult problems

### New Result graphs

- Profile plots for multi-factor ANOVA
- Graphs for the Normality test
- Deming Regression fit line with confidence bands
- Scree plots, plots of component loadings, and component scores for PCA
- Adjusted means with confidence intervals and Regression Lines for groups in ANCOVA

### Graphing Enhancements

- Greatly improved editing capability with a new Graph Properties dialog
- Object Properties dialog for graph customization
- Exporting selections on a graph page or the entire graph page to a large variety of bitmap and vector file formats. Graphs can also be saved as web pages
- Histogram Wizard
- Plot Equation dialog for graphing functions
- Plot Regression dialog to add linear regression curves to graphs

### Availability

SigmaStat version 4.0 is available in single user, network and site license options for Corporations, Government agencies, academic& R&D institutions. SigmaStat version 4.0 has numerous licensing options from a single user package and network licenses to an institution- or company-wide site license. The SigmaStat Network License offers concurrent license management, allowing you to install the software on as many computers as you need.

Additionally, a free, fully functional demo version is also available for download from the SigmaPlot website at <http://www.sigmaplot.com/downloads/download.php>. Users of SigmaStat version 3.5 and below can upgrade to this latest version for a modest cost. Upgrades, multi-user, government discounts and special bundle pricing are available by writing to [info-usa@systat.com](mailto:info-usa@systat.com). For online purchases, please also refer to our webstore at <http://www.sigmaplot.com/store/store.php> for pricing.

About Systat Software, Inc.

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 37 countries is backed by technical support centers in key geographies including the U.S., U.K., Germany and India. For more information, visit: <http://www.sigmaplot.com> or <http://www.sigmastat.com>

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