

# THE UNIX STATISTICIAN RELEASE 1.0

## STATISTICAL ANALYSIS APPLICATION

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1	ms3425	65000.0	85.0	0.5	337.0
2	ms 3438	45000.0	85.0	0.5	399.0
3	ms 3650	95000.0	61.0	0.5	599.0
4	ms6053	80000.0	28.0	1.0	668.0
5	ms 6085	75000.0	28.0	1.0	938.0
6	segate 225	105000.0	39.0	0.5	337.0
7	segate 4038	25000.0	39.0	1.0	624.0
8	segate 251	60000.0	39.0	0.5	694.0
9	segate 4096	50000.0	28.0	1.0	1034.0
10	sx20	55000.0	85.0	0.5	449.0
11	sx30		85.0	0.5	529.0
12	sx40		61.0	0.5	699.0

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- ▶ Ease of Use
- ▶ Effective Data Management
- ▶ Powerful Data Exchange
- ▶ Flexible Report Generation

The UNIX<sup>®</sup> Statistician™ is an easy to use multiuser statistical analysis application for SCO™ XENIX<sup>®</sup>. The UNIX Statistician is a graphical and powerful statistical analysis tool for applied statisticians in business, government, clinical research, and engineering who don't have the time to program. Easy to use, The UNIX Statistician offers a wide variety of statistical functions and includes such features as data management, data exchange, and report generation.

### Ease of Use

The UNIX Statistician is very easy to use with its friendly user interface, which includes ring-style menus, dialog boxes, and function keys that display on screen. The UNIX Statistician has online help for on-the-job training and a unique output manager for incredible graphic presentations.

### Effective Data Management

The UNIX Statistician has a data editor that allows maximum control over any complex character or numeric data. The data editor is full screen, field oriented, and accepts free format data entry. The UNIX Statistician also provides comprehensive transformation capabilities for numeric data, a data option in every submenu for interactive data analysis, sorting, and "select if" for analyzing subgroups.

### Powerful Data Exchange

The UNIX Statistician reads data directly from SCO FoxBASE™, SCO FoxBASE+™, and SCO Professional™, providing instant access to existing data.

### Flexible Report Generation

Extremely versatile, The UNIX Statistician can present its analysis in a wide variety of reports, tables and graphs. Some of the reports include estimates, T-values, standard errors, tail probabilities, ANOVA, residual analysis, correlation matrix, and case matrix.

### Product Features

#### ▶ Descriptive Statistics

- Mean
- Median
- Mode
- Standard Deviation
- Skewness
- Kurtosis
- Variance
- Harmonic Mean
- Geometric Mean
- Minimum
- Maximum
- Range
- Sum

#### ▶ Regression Analysis

- Multiple
- Multiple with Stepwise

▶ **Non-parametrics**

Median Test  
Mann-Whitney Test  
Kruskal-Wallis  
Runs Test  
Spearman's Rho  
Wilcoxon Signed Test

▶ **Cross Tabulation**

Contingency Tables  
Chi-Square Analysis  
Partial Chi-Square Analysis

▶ **Hypothesis Testing**

Single Mean  
Paired Difference  
Difference in Means

▶ **ANOVA (Analysis of Variance)**

One Way  
Two Way  
Two Way with Repeated Measures

▶ **Time Series Analysis**

Moving Averages  
Single Exponential Smoothing  
Double Exponential Smoothing  
Classical Decomposition  
Holt's Model

▶ **Probability Distribution**

Binomial  
Poisson  
Hypergeometric

▶ **Random Variable Generation**

Normal  
Uniform  
Binomial  
Gamma

▶ **Correlation**

Spearman  
Pearson

▶ **Report Generation**

Estimates  
T-values  
Standard Errors  
Tail Probabilities  
ANOVA  
F, R-sq, Dubin-Watson  
Residual Analysis  
Variance-Covariance Matrix  
Sums of Square Matrix  
Correlation Matrix  
Case Matrix  
Mean Square Error  
Mean Absolute Deviation  
Table of Actual Series  
Table of Predicted Series  
Table of Errors  
Table of Percentage Errors

▶ **Graphs**

Box Plots  
Whisker Plots  
Histograms  
X-Y Plots

▶ **Ease of Use**

Online Help  
Dialog Boxes  
Output Manager

▶ **Data Management**

Data Editor  
Sorting  
Comprehensive Transformations  
Select If

▶ **Data Exchange**

Data Import  
Data Export

**System Requirements**

Operating System: *SCO XENIX System V*  
Release 2.2.3 or later

RAM: 1 Mbyte

Disk Space: 1 Mbyte

One double-sided 5¼" disk drive

Optional: 80287 and 80387 math co-processor

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