

Test StatFolio Collection – November 2000

This collection of StatFolios and Design Files provides working example for most of the analyses in Version 5 of STATGRAPHICS *Plus*. The files are listed in the order they appear on the menu.

PLOT -

Scatterplots

SCATTER.SGP

- Univariate Plot
- X-Y Plot
- X-Y-Z Plot
- Multiple X-Y Plot
- Multiple X-Y-Z Plot

POLAR.SGP

- Polar Coordinates Plot

Exploratory Plots

EXPLORE.SGP

- Box-and-Whisker Plot
- Multiple Box-and-Whisker Plot
- Probability Plot
- Frequency Histogram
- Dot Diagram
- Multiple Dot Diagram
- Bubble Chart

RADAR.SGP

- Radar/Spider Plot

Business Charts

BUSINESS.SGP

- Barchart
- Multiple Barchart
- Pie Chart

COMPLINE.SGP

- Component Line Chart

HIGHLOW.SGP

- High-Low-Close Plot

Probability Distribution

PROBABLE.SGP

- 24 Probability Distributions

Response Surfaces

RESPONSE.SGP

Custom Chart

CUSTOM.SGP

DESCRIBE

Numeric

ONEVAR.SGP

NUMERIC.SGP

- One Variable Analysis
- Multiple Variable Analysis
- Subset Analysis
- Row-Wise Statistics

POWER.SGP

- Power Transformations

Categorical

CATEGORY.SGP

- Tabulation
- Crosstabulation
- Contingency Tables

Distribution Fitting

DISTRIB.SGP

- Uncensored Data
- Censored Data
- Probability Distributions
- Probability Plots

Life DATA

LIFE.SGP/LIFETIME.SGP

- Life Tables (Interval)
- Life Tables (Time)

WEIBULL.SGP

- Weibull Analysis

ARRHENIUS.SGP

- Arrhenius Plot

Hypothesis Test (Describe)

HYPO_D.SGP

Sample Size Determination (Describe)

SAMPLE_D.SGP

COMPARE -

Two-Sample

TWOSAMPLE.SGP

- Two Sample Analysis
- Paired Samples

HYPO_C.SGP

- Hypothesis Test (Compare)

Multiple Sample Comparison Analysis
COMPARE.SGP

Comparison of Proportions
PROPORTIONS.SGP

Comparison of Counts
COUNTS.SGP

Analysis of Variance
COMPARE.SGP
- One-Way ANOVA
- Multifactor ANOVA
- Variance Components

Sample Size (Compare)
SAMPLE_C.SGP

RELATE-

Simple Regression
RELATE.SGP

Multiple Regression
RELATE.SGP

Box-Cox Transformations
PLASMA.SGP

Polynomial Regression
RELATE.SGP

MODULES

QUALITY CONTROL

Pareto Analysis
PARETO.SGP

Process Capability Analysis
PROCESS.SGP -- PROCESS1.SGP

Variables Control Charts
VARIABLE.SGP

- X-Bar and R
- X-Bar and S
- X-Bar and S-Squared
- Individuals

Attributes Control Charts
ATTRIB.SGP

- p-Chart
- np-Chart
- c-Chart
- u-Chart

Time-Weighted Charts
TW_CHART.SGP

- Moving Average Chart
- Moving Average Individuals Chart
- EWMA Chart
- EWMA Individuals Chart
- CuSum Chart (V-Mask)
- Cusum Individuals Chart (V-Maks)
- Cusum Chart (H-K)
- CuSum Individuals Chart (H-K)

Multivariate Chart
MV_CHART.SGP

Special Control Charts
SPECIAL.SGP

- ARIMA Chart
- ARIMA Individuals Chart
- Toolwear Chart
- Toolwear Individuals Chart
- Acceptance Chart
- Acceptance Individuals Chart

Gage R&R
GAGER.SGP

- Data Setup
- Average and Range Method
- ANOVA Method
- Range Method

Custom Chart
CUSTOM.SGP

Fishbone Diagram
FISHBONE.SGP

Acceptance Sampling
ACCEPT.SGP

- attributes
- variables

EXPERIMENTAL DESIGN

Create Design

Optimize Design -- OPTIMIZE.SGP (Optimize.sfx)

Open Design -- SCREEN.SFX -- RESPONSE.SFX -- MIXTURE.SFX

Analyze Design -- Open any of the files listed in Open Design
Then select the Analyze menu item

Augment Design -- AUGMENT.SGP

Multiple Response Optimization -- MULTIPLE.SGP (Multiple.sfx)

MULTIVARIATE METHODS

Principal Components
PRINCIPAL.SGP

Factor Analysis
FACTOR.SGP

Cluster Analysis
CLUSTER.SGP

Discriminant Analysis
DISCRIM.SGP

Canonical Correlations
CANON.SGP

TIME-SERIES ANALYSIS

Descriptive Methods
DESCRIPT.SGP

Smoothing
SMOOTH.SGP

Seasonal Decomposition
SEASONAL.SGP

Forecasting
FORECAST.SGP -- ARIMA.SGP

ADVANCED REGRESSION

General Linear Models
GLM.SGP

Calibration Models
CALIB.SGP

Comparison of Regression Lines
LINES.SGP

Regression Model Selection
MODEL.SGP

Nonlinear Regression
NONLIN.SGP

Ridge Regression
RIDGE.SGP

Logistic Regression
LOGIC.SGP