Random Numbers Generation

This menu can be used to generate pseudo random data from different distributions.

How To

- ✓ Open the **DATA-> RANDOM NUMBERS GENERATION** menu and select the distribution, random numbers should be drawn from.
- ✓ Enter the number of variables (columns) to produce into the **NUMBER OF NEW VARIABLES** field.
- ✓ Enter the number of data points for each variable into the **RANDOM NUMBERS COUNT** field.
- ✓ Enter values used to characterize the selected distribution.
    - **DISCRETE UNIFORM, CONTINUOUS UNIFORM**
      Characterized by *lower* and *upper bounds*. Used to model the data that range over an interval of equally probable values. **DISCRETE UNIFORM** command generates integer numbers.
    - **NORMAL**
      Characterized by a *mean* and a *standard deviation*. The normal distribution is often used to describe, at least approximately, any variable that tends to cluster around the mean.
    - **CHI-SQUARE**
      Characterized by *degrees of freedom.* The chi-square distribution is rarely used to model natural phenomena, but it often arises in the hypothesis tests.
    - **F DISTRIBUTION** (also known as Snedecor's F distribution or the Fisher–Snedecor distribution)
      Characterized by *degrees of freedom for the numerator* and *degrees of freedom for the denominator*. The F-distribution models the distribution of the ratio of two chi-square distributed random variables.

Results

Variables with random values from a specified distribution are generated.