GAUSS Mathematical & Statistical System 6.0 Update

New GAUSS 6.0

New features and enhancements include:

- **New Run-Time Library procedures and structures**
- **New GUI features in GAUSS for Windows**
- **Many more functions support multi-dimensional arrays**
- **Faster inverse and linear equations solver**
- **The commands 'selif' and 'delif' are now intrinsics, making them up to 4 times faster**
- **Additional support for string arrays**
- **Faster multi-column sort**

Platforms:

Available for Windows, LINUX, and UNIX: AIX4, Sun Sparc and HPUX11.

GAUSS 6.0 includes a number of new features and enhancements designed to increase the speed, power and functionality of GAUSS. The new version of GAUSS includes additional support for string arrays, more functions support multi-dimensional arrays, and a faster multi-column sort, as well as new Run-Time Library procedures and structures and new GUI features in GAUSS for Windows.

- **New Run-Time Library procedures and structures**
  - New versions of the unconstrained optimization and equation solution procedures called **QNewtonmt** and **eqSolvemt** that use structures
  - **QNewtonmt** uses the new **gradmt** and **hessmt** procedures; an analytical gradient procedure can be provided which computes a subset of the derivatives and **QNewtonmt** will compute the remaining derivatives numerically.
  - Also new are functions for computing moving averages and combinations, **movingAve** a simple moving average, **movingaveWgt**, a weighted one, and **movingaveExpwgt**, an exponentially weighted one; these functions employ sparse matrices for very rapid calculations on large matrices
  - New combination functions compute all combinations of a sequence of integers taken k at a time; **combinate** returns a matrix of these integers, and **combinated** stores them in a GAUSS data set
- **New GUI features in GAUSS for Windows**
  - **Source View Window**
    This is a dockable dialog bar that gives the GAUSS user instant access to all source files and symbols in all active libraries. Capabilities include search, instant edit, and symbol/file properties.
  - **Error Window**
    Allows the GAUSS user to click on compiler errors and go right to the source where the problem occured, avoiding the hassles of searching through pages of files to find them.
  - **Debugger**
    The debugger now allows you to open a file by right clicking on it