# 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

### For More Information Contact:

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