

## FOR IMMEDIATE RELEASE

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## APTECH SYSTEMS, INC., ANNOUNCES GAUSS 6.0™

MAPLE VALLEY, WA – January 15, 2004 – Aptech Systems has released a new version, 6.0, of their popular GAUSS Mathematical and Statistical System. GAUSS includes a powerful and flexible matrix programming language and a wide variety of statistical, mathematical and matrix handling routines. Intelligently designed, yet easy-to-use, GAUSS 6.0 includes these performance enhancements:

- **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; **combinat**e 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 occurred, avoiding the hassles of searching through pages of files to find them.

## About Aptech Systems, Inc.

Ever since its foundation, Aptech Systems, Inc., has been bringing customers the unique GAUSS brand of highly specialized, scientific software products. GAUSS is backed by nearly 20 years of history in research and innovation. The power of GAUSS has been used for everything from basic statistical analysis to solving real world optimization and data analysis problems of exceptionally large scale. GAUSS runs on Windows, Linux, Solaris, and several other platforms. Aptech Systems, Inc., offers an even more powerful resource for advanced computational needs in their latest offering, GAUSS Mathematical and Statistical System, version 6.0. For more information, visit our website at [www.Aptech.com](http://www.Aptech.com).

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