

# GAUSS Mathematical & Statistical System v5.0 Update



## Now Available!

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### N-Dimensional Arrays


### 2D Arrays of Structures

### New Threadsafe Run-Time Library Functions

- **SQPsolveMT**
- **gradMT**
- **hessMT**

### Over 50 New Functions!

### User Configurable Output Buffering in the Windows GUI

 The GAUSS Mathematical and Statistical System 5.0 includes the following **NEW** and **ENHANCED** features:

- **N-Dimensional Arrays**

The flexibility of N-dimensional arrays is now available in GAUSS. A wide variety of functions and operators work with these arrays providing the GAUSS programmer powerful new methods for handling complex analytical problems.

- **2D Arrays of Structures**

Structures considerably simplify programming tasks by allowing the grouping of complex sets of matrices, string arrays as well as other structures under a single symbol name. GAUSS now permits 2D arrays of structures, significantly adding to the power of programming with structures in GAUSS.

### Platforms

#### Available for:

- Windows
- AIX4
- HP UX11
- Sun SPARC
- LINUX

- **New Threadsafe Run-Time  
Library Functions**

- **SQPsolveMT**

An optimization procedure that solves nonlinear programming problems.

- **gradMT**

Computes the numerical gradient of an arbitrary function

- **hessMT**

Computes the numerical Hessian of an arbitrary function

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## Aptech Systems Inc.

23804 SE Kent-Kangley Road, Maple Valley, WA 98038 USA

Phone: (425) 432-7855 ♦ FAX: (425) 432-7832 ♦ [info@Aptech.com](mailto:info@Aptech.com) ♦ URL: [www.Aptech.com](http://www.Aptech.com)

