

## New Features:

- User control over error display
- Path control instead of using an environment variable
- Directory control
- Message and signal control
- Missing value capability
- Timer capability
- VBA to Excel using RangeSet

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## Requirements:

Requires GAUSS Engine 6.0 or later

## Platforms:

Available for Windows

## Mercury GE 6.1

Mercury GE consists of a set of functions that provide an interface with the GAUSS Engine. These functions permit sending strings, string arrays, values and matrices from the external application to GAUSS, running the GAUSS code or procedures, and returning the data back to the external application. Thread control is explicitly supported.



## Product Details

Mercury GE has four main components:

- An Excel add-in that links an Excel Workbook to GAUSS. Data is sent to GAUSS, where it is processed, and the results are returned to the specified cells in the spreadsheet. Excel 97, 2000, 2003 and 2007 are supported.
- A library of interface functions for developers who need to link GAUSS to an external application using custom interfaces.
- Windows clipboard support for GAUSS.
- A demonstration project showing how GAUSS compliant DLLs are created.

Mercury GE is designed for developers who wish to use GAUSS functionality within their applications, or who need to provide a custom front end for GAUSS. It is available for the Windows version of the GAUSS Engine and includes royalty-free code for applications using the GAUSS Run-Time Engine.

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Sample demonstration projects are included for:

- Excel
- VC6, MFC, VC.NET, and C#
- VB6 and VB.NET

These demonstration projects are provided for both the GAUSS Engine and for the GAUSS Run-Time Engine.

Mercury GE 6.1 has the following new features:

- User control over error display—ErrorClear, ErrorGet, ErrorMode
- Path control instead of using an environment variable—PathGet, PathSet
- Directory control—DirGet, DirSet
- Message and signal control—messages and signals can be sent from the app to GAUSS, and from GAUSS to the app while GAUSS is executing a job—MsgFetch, MsgSend, SignalFetch, SignalSend
- Missing value capability—MissGet, MissSet, MissType, MissVal
- Timer capability—TimerStart, TimerStop
- VBA to Excel using RangeSet

The ability to send and receive messages and signals while GAUSS is executing allows for interactive control while a job is being executed, as well as the capability to display the ongoing progress of a job, such as during optimization or simulation.

The following example provides a feel for Mercury GE's capabilities; there are additional examples on the Econotron web site at [www.econotron.com](http://www.econotron.com), as well as an evaluation version of Mercury GE that can be downloaded.

Example:

```
dim xmat(1 to 4, 1 to 3) as Double
dim zm() as Double
...
ge.MatPut xmat, "x";
ge.ExecCode "zmat = myproc(x)";
ge.MatGet zm(), "zmat"
```

This is a simple VBA example. A matrix, xmat, is populated, and stored as the variable x using the MatPut command. A GAUSS procedure is executed using the ExecCode command, and the result, zmat, is returned to the VB matrix zm.

Full documentation, trial version and examples are available at <http://www.econotron.com>



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