

GAUSSTM 11

Quick Start Guide



S

S

U

A

G

Information in this document is subject to change without notice and does not represent a commitment on the part of Aptech Systems, Inc. The software described in this document is furnished under a license agreement or nondisclosure agreement. The software may be used or copied only in accordance with the terms of this agreement. The purchaser may make one copy of the software for backup purposes. No part of this manual may be reproduced or transmitted in any form or by any means, electronic or mechanical, including photocopying or recording, for any purpose other than the purchaser's personal use without the written permission of Aptech Systems, Inc.

© 1984, 2010 Aptech Systems, Inc.
All rights reserved.

GAUSS and GAUSS Light are trademarks of Aptech Systems, Inc.
PostScript is a trademark of Adobe Systems Inc.
IBM is a trademark of International Business Machines Corporation.
Windows is a registered trademark of Microsoft Corporation.
Other trademarks are the property of their respective owners.

Part Number: 007433
Version 11
Revised October 21, 2010

Contents

1	Introduction	1
	Product Overview	1
2	Getting Started	2
	Installation Under UNIX/Linux/Mac OS X	2
	Installation Under Windows.....	2
3	Documentation	4
	GAUSS Quick-Start Guide	4
	GAUSS User Guide	4
	GAUSS Language Reference	5
	Ordering Documentation	5
4	Support Services	6
	Contacting Our Support Services	6
5	Licensing	7
	Licensing Under UNIX/Linux/Mac OS X	7
	Licensing Under Windows	7
	Floating Network Licenses	7

Introduction 1

Product Overview

GAUSS is a complete analysis environment suitable for performing quick calculations, complex analysis of millions of data points, or anything in between. Whether you are new to computerized analysis or a seasoned programmer, the GAUSS family of products combine to offer you an easy to learn environment that is powerful and versatile enough for virtually any numerical task.

Since its introduction in 1984, GAUSS has been a standard for serious number crunching and complex modeling of large-scale data. Worldwide acceptance and use in government, industry, and the academic community is a firm testament to its power and versatility.

Getting Started **2**

Installation Under UNIX/Linux

1. Make a directory to install GAUSS in.
2. cd to that directory.
3. Unzip the .gz or .zip file if there is one.
4. Untar the .tar file.
5. In a terminal window at your GAUSS directory, run ./ginstall.
6. Put the installation directory in the executable path.
7. Put the installation directory in the shared library search path.
8. Install the license; please refer to Chapter 5: Licensing for instructions.

For last minute information, see README.term.

Installation Under Mac OS X

From Download

1. Download the file from your Premier Support site or from the download instructions provided by Aptech Systems.
2. Unzip the software in a temp directory.
3. Run GAUSS11_MacOSX_Installer.pkg by browsing to the folder where you saved the file and double-clicking on it to launch the installation process.
4. Install the license; please refer to Chapter 5: Licensing for instructions.

From CD

1. Insert the GAUSS 11 CD into the CD-ROM drive. Browse to the CD and double-click on the GAUSS11_MacOSX_Installer.pkg file.
2. Install the license; please refer to Chapter 5: Licensing for instructions.

Installation Under Windows

From Download

1. Download the file from your Premier Support site or from the download instructions provided by Aptech Systems.
2. Unzip the software in a temp directory.
3. Run GAUSS_11*.msi by browsing to the folder where you saved the file and double-clicking on it to launch the installation process or by clicking on Start, then Run, browse to the folder where you saved the file, and click on GAUSS_11*.msi.
4. Install the license; please refer to Chapter 5: Licensing for instructions.

From CD

1. Insert the GAUSS 11 CD into the CD-ROM drive. If the installation does not start automatically, browse to the drive where you have inserted the disc and double-click the GAUSS_11*.msi file.
2. Install the license; please refer to Chapter 5: Licensing for instructions.

Documentation **3**

GAUSS Quick-Start Guide

- Introduction
- Getting Started
- Documentation
- Support Services
- Licensing

GAUSS User Guide

- Introduction
- Getting Started
- Introduction to the Graphical User Interface
- Navigating the Graphical User Interface
- Using the Command Line Interface
- Language Fundamentals
- Operators
- Procedures and Keywords
- Sparse Matrices
- N-Dimensional Arrays
- Working With Arrays
- Structures
- Run-Time Library Structures
- Multi-Threaded Programming in GAUSS
- Libraries
- Compiler
- File I/O
- Foreign Language Interface
- Data Transformations

The GAUSS Profiler
Publication Quality Graphics
Time and Date
ATOG
Error Messages
Maximizing Performance
Fonts Appendix
Reserved Words Appendix
Singularity Tolerance Appendix

GAUSS Language Reference

Introduction
Commands by Category
Command Reference
Obsolete Commands Appendix
Colors Appendix

Ordering Documentation

Documentation in PDF format is available from our website at www.Aptech.com.

- GAUSS User Guide and Language Reference set (Part No. 007432)

For pricing information on printed documentation, please contact us at:

Aptech Systems, Inc.

Mailing Address:

P.O. Box 250

Black Diamond, WA 98010 USA

Street Address:

30741 Third Avenue, #160

Black Diamond, WA 98010 USA

Phone: (360) 886-7100

FAX: (360) 886-8922

E-mail for Corporate Sales: corpsw@Aptech.com OR info@Aptech.com

E-mail for Academic Sales: acsw@Aptech.com OR info@Aptech.com

E-mail for Government Sales: govsw@Aptech.com OR info@Aptech.com

Support Services 4

Contacting Our Support Services

To contact our support technicians under your Premier Support contract, please e-mail us at: support@Aptech.com and include the following information:

- Brief description of problem
- Operating system version (Windows 7, Vista, XP, Linux, Mac OS X, etc.)
- GAUSS version and revision number
- License ID of GAUSS
- Your phone number and/or email address
- Your name

Our contact information:

Aptech Systems, Inc.

Mailing Address:

PO Box 250

Black Diamond, WA 98010 USA

Street Address:

30741 Third Avenue, #160

Black Diamond, WA 98010 USA

Phone: (360) 886-7100

FAX: (360) 886-8922

E-mail: info@Aptech.com

Our Web address is: www.Aptech.com.

Licensing 5

Licensing Under UNIX/Linux

After you install GAUSS or the GAUSS Engine, go to the `gauss11` directory. If a file called `hostid.txt` does not already exist, run the following command from a terminal window:

```
./lm/rlmhostid > hostid.txt
```

Send the resulting `hostid.txt` file to license@aptech.com along with your GAUSS serial number (found on the license certificate) and your completed registration form to request a license.

If you are requesting a floating network license, please include the hostname of your server, which can be either the friendly name of the computer or the IP address. You will be sent a license code with instructions for installing it. Save the license file in the main `gauss11` folder.

Licensing Under Windows

After you install GAUSS or the GAUSS Engine, open a command prompt window and go to the `gauss11` directory (usually `C:\gauss11`). If a file called `hostid.txt` does not already exist, run the following command:

```
lm\rlmhostid.exe > hostid.txt
```

This will create a file called `hostid.txt` with the information needed to issue your license. Send the information in `hostid.txt` to license@aptech.com along with your GAUSS serial number (found on the license certificate) and your completed registration form to request a license. If you are requesting a floating network license, please include the hostname of your server, which can be either the friendly name of the computer or the IP address.

Aptech will send you a license with instructions for installing it. Save the license file in the main `gauss11` folder.

Floating Network Licenses

Licenses are not issued based on the hostid and hostname of the client machines, only on the hostid and hostname of the machine acting as the license server. Any machine may act as a license server so long as the client machines can ‘ping’ that machine to request license codes. For advanced instructions on setting up floating network licenses through a firewall, with special services, or to start up automatically at power up, see the RLM End User Manual available online at http://www.reprisesoftware.com/RLM_Enduser.html.

You can manage the license service from a browser window after the service by entering the IP address of the server followed by a colon (:) and 5054. For example, if the server IP address is 100.100.100.100, you would enter the URL as:

```
http://100.100.100.100:5054
```

From this window, you can check the status of the service, shutdown, reread/restart the service, switch reporting, new reporting, manage Windows services (Windows only), run diagnostics, etc.

More detailed information on the license manager used in GAUSS is available at <http://www.reprisesoftware.com/support/end-users.php>.

Start License Server

1. Open a command prompt/terminal window and go to the `gauss11` directory (usually `C:\gauss11`). Run the following command to start the service:

```
rlm.exe (Windows) or ./rlm (Linux/Solaris/Mac)
```

2. Test by starting GAUSS on the Server.
3. Minimize the command window or follow the instructions in the RLM End User Manual for setting up GAUSS as a service. Closing the command window without starting GAUSS as a service will shut down the service.

Configure Clients

Copy the license file used for the server or create a one-line client license to the `gauss11` on each client workstation where GAUSS is installed. The one-line client license needs to contain simply the word `HOST` and the hostname or IP address of the server; the name of the file should be `aptechclient.lic`.

GAUSS is now ready to run.

Aptech Systems, Inc.

30741 Third Avenue, #160

PO Box 250

Black Diamond, WA 98010

Phone: 360.886.7100

Fax: 360.886.8922

www.Aptech.com

info@Aptech.com

support@Aptech.com