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GemStone®

***GemBuilder for Java™***  
***GemBuilder for Java Release***  
***Notes***

June 2004



Version 2.1.2

Send your comments about this manual to [docs@gemstone.com](mailto:docs@gemstone.com)

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### **Patents**

GemStone is covered by U.S. Patent Number 6,256,637 "Transactional virtual machine architecture" and Patent Number 6,360,219 "Object queues with concurrent updating". GemStone may also be covered by one or more pending United States patent applications.



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## About This Documentation

These release notes describe new features and the bugs fixed in the GemBuilder® for Java™ Version 2.1.2 release.

We recommend that everyone using GemBuilder for Java read these release notes before beginning installation or development. These release notes are also available in PDF format with your GemBuilder for Java distribution and on the GemStone customer website.

## Other Useful Documents

- *GemBuilder for Java Tools* online documentation describes the independent set of tools that let you explore and modify Smalltalk code in the server.
- The *GemStone/S Programming Guide* describes the GemStone System and the GemStone Smalltalk language.
- If you will be acting as a system administrator, or developing software for someone else who must play this role, you should read the *GemStone/S System Administration Guide*.

## Technical Support

GemStone provides several sources for product information and support. GemBuilder for Java product manuals provide extensive documentation, and should always be your first source of information. GemStone Technical Support engineers will refer you to these documents when applicable. However, you may need to contact Technical Support for the following reasons:

- Your technical question is not answered in the documentation.
- You receive an error message that directs you to contact GemStone Technical Support.
- You want to report a bug.
- You want to submit a feature request.

Questions concerning product availability, pricing, keyfiles, or future features should be directed to your GemStone account manager.

When contacting GemStone Technical Support, please be prepared to provide the following information:

- Your name, company name, and GemStone/S license number
- The GemBuilder for Java and GemStone/S versions you are using
- The hardware platform and operating system you are using
- A description of the problem or request
- Exact error message(s) received, if any

Your GemBuilder for Java support agreement may identify specific individuals who are responsible for submitting all support requests to GemStone. If so, please submit your information through those individuals. All responses will be sent to authorized contacts only.

For non-emergency requests, you should contact Technical Support by web form, email, or facsimile. You will receive confirmation of your request, and a request assignment number for tracking. Replies will be sent by email whenever possible, regardless of how they were received.

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**World Wide Web: <http://support.gemstone.com>**

This is the preferred method of contact. The Help Request link is at the top right corner of the home page—please use this to submit help requests. This form requires an account, but registration is free of charge. To get an account, just complete the Registration Form, found in the same location. You'll be able to access the site as soon as you submit the web form.

**Email: [support@gemstone.com](mailto:support@gemstone.com)**

Please do not send files larger than 100K (for example, core dumps) to this address. A special address for large files will be provided as appropriate.

**Facsimile: (503) 629-8556**

When you send a fax to Technical Support, you should also leave a voicemail message to make sure your fax will be picked up as soon as possible.

**Telephone: (800) 243-4772 or (503) 533-3503**

We recommend you use telephone contact only for more serious requests that require immediate evaluation, such as a production system that is non-operational.

Emergency requests are handled by the first available engineer. If you are reporting an emergency and you receive a recorded message, do not use the voicemail option. Transfer your call to the operator, who will take a message and immediately contact an engineer.

Non-emergency requests received by telephone are placed in the normal support queue for evaluation and response.

## **24x7 Emergency Technical Support**

GemStone offers, at an additional charge, 24x7 emergency technical support. This support entitles customers to contact us 24 hours a day, 7 days a week, 365 days a year, if they encounter problems that cause their production application to go down, or that have the potential to bring their production application down. Contact your GemStone account manager for more details.

## GemStone Web Site

The GemStone Web site, at <http://support.gemstone.com>, provides a variety of information to help you use GemBuilder for Java products. Use of this site requires an account, but registration is free of charge. To get an account, just complete the Registration Form, found in the same location. You'll be able to access the site as soon as you submit the web form.

The following types of information are provided at this web site:

**Help Request** is an online form that allows designated technical support contacts to submit requests for information or assistance via email to GemStone Technical Support.

**Technotes** provide answers to questions of general interest submitted by GemBuilder for Java customers. They may contain coding examples, links to other sources of information, or downloadable code.

**Bugnotes** identify performance issues or error conditions that you may encounter when using a GemBuilder for Java product. A bugnote describes the cause of the condition, and, when possible, provides an alternative means of accomplishing the task. In addition, bugnotes identify whether or not a fix is available, either by upgrading to another version of the product, or by applying a patch. Bugnotes are updated regularly.

**Tips and Examples** provide information and instructions for topics that usually relate to more effective or efficient use of GemStone products. Some Tips may contain code that can be downloaded for use at your site.

**Release Notes and Install Guides** for your product software are provided in PDF format.

**Documentation** for GemBuilder for Java is provided in PDF format. This is the same documentation that is included with your GemBuilder for Java product, with the exception of the API reference files (javadocs).

**Community Links** provide customer forums for discussion of GemBuilder for Java product issues.

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Technical information on the GemStone Web site is reviewed and updated regularly. We recommend that you check this site on a regular basis to obtain the latest technical information for GemStone products. We also welcome suggestions and ideas for improving and expanding our site to better serve you.

## **Training and Consulting**

Consulting and training for all GemStone products are available through GemStone's Professional Services organization.

- Training courses are offered periodically at GemStone's offices in Beaverton, Oregon, or you can arrange for onsite training at your desired location.
- Customized consulting services can help you make the best use of GemStone products in your business environment.

Contact your GemStone account representative for more details or to obtain consulting services.



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# *GemBuilder for Java*

## *2.1.2 Release Notes*

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GemBuilder for Java version 2.1.2 fixes a critical bug that impacts GBJ systems that interface to large Gemstone/S repositories. These release notes provide details of the changes in this release. Please take time to read through them before installing or upgrading, to acquaint yourself with the changes.

To install GemBuilder for Java version 2.1.2, follow the instructions in the GemBuilder for Java Installation Guide.

Details of the bug fix are described in the following section “Bugs Fixed” on page 1-1

### **1.1 Bugs Fixed**

The following bug has been fixed since GemBuilder for Java 2.1.1:

#### **Logins fail with Class instance oops over 2 billion**

When an instance of a Class existed in the Gemstone/S repository with an oop value above 2 billion (2,147,483,647 or  $2^{31}-1$ ), the class information passed to GBJ during login could not be cast to the appropriate data type. This resulted in a ClassCastException, and the GBJ login would hang.

This is a special case related to bug #27066, which was fixed in GBJ version 2.1.1. (#30854).

