
GemStone®

GemBuilder for Smalltalk Release Notes

Version 7.1.2patch1

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PATENTS

GemStone is covered by U.S. Patent Number 6,256,637 "Transactional virtual machine architecture", Patent Number 6,360,219 "Object queues with concurrent updating", and Patent Number 6,567,905 "Generational Garbage Collector". GemStone may also be covered by one or more pending United States patent applications.

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Release Notes for GemBuilder for Smalltalk 7.1.2patch1

GemBuilder for Smalltalk (GBS) version 7.1.2patch1 is a patch release of the GemBuilder for Smalltalk 7.1.2 release. This patch release provides the fix for a critical bug in version 7.1.2, which is exposed when running with a GemStone/S 64 bit version 2.x server.

GBS Version 7.1.2 should not be used in production systems that are running with GemStone/S 64 bit version 2.0 or above!

While bug #38865 does not affect systems running with 32-bit GemStone/S or with GemStone/S 64 Bit version 1.x, we encourage the use of 7.1.2patch1 rather than 7.1.2 in all cases.

Installation

This patch release does not include a separate installation guide. To install GemBuilder for Smalltalk 7.1.2patch1, follow the instructions in the *GemBuilder for Smalltalk Installation Guide* for version 7.1.2.

To upgrade existing 7.1.2 installations, the changes between 7.1.2 and 7.1.2patch1 are provided as a filein. The GemBuilder for Smalltalk 7.1.2patch1 distribution includes an additional directory **patch**, containing the following:

GbsRuntime-7.1.2patch1-diffs.st

Filing in this file to your GBS 7.1.2 image will upgrade your image to a similar state as building with the 7.1.2patch1 parcels, including updating the version number.

Do not use this filein with releases other than 7.1.2.

Bug Fixed

The following bug has been fixed since GemBuilder for Smalltalk version 7.1.2:

Risk of cache dictionary corruption against GS64 2.x

When running against a GemStone/S 64 Bit server in which the OOPs are 64-bit values, when objects were replicated for which the lower-order 24 bits of the oop number were all zero, it caused errors in finalization and corrupted the cache dictionary. (#38865)