
GemStone®

GemStone/S *Release Notes*

Version 6.6.3.3

March 2013

vmware®

GEMSTONE[™]
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PATENTS

GemStone software is covered by U.S. Patent Number 6,256,637 "Transactional virtual machine architecture", Patent Number 6,360,219 "Object queues with concurrent updating", Patent Number 6,567,905 "Generational garbage collector with persistent object cache", and Patent Number 6,681,226 "Selective pessimistic locking for a concurrently updateable database". GemStone software may also be covered by one or more pending United States patent applications.

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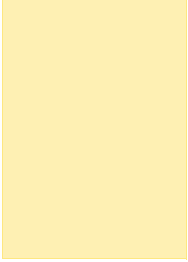
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VMware, Inc.
15220 NW Greenbrier Parkway
Suite 150
Beaverton, OR 97006



GemStone/S 6.6.3.3

Release Notes

Overview

GemStone/S 6.6.3.3 is a new version of the GemStone 32-bit Smalltalk object server, fixing a bug in updating statistics. We recommend everyone using GemStone/S upgrade to this new version.

These release notes provide changes between the previous general access version of GemStone/S, version 6.6.3.2, and version 6.6.3.3, and includes all changes described in the limited distribution 6.6.3.1 release. If you are upgrading from a version prior to 6.6.3.2, please also review the release notes for each intermediate release to see the full set of changes.

No separate Installation Guide is provided with this release. For installation instructions, use the Installation Guide for version 6.6.3.

Supported Platforms

GemStone/S version 6.6.3.3 is supported on the following platforms:

- ▶ Solaris 8, 9 and 10 on SPARC
- ▶ AIX 5.3, 6.1, and 7.1
- ▶ Red Hat Linux ES 5.0, 5.5, and 6.1
- ▶ Windows XP, Windows 2003, Windows 7, and Windows 2008 R2

For more information and detailed requirements for each supported platforms, please refer to the *GemStone/S Installation Guide v6.6.3* for that platform.

GBS version summary

The following versions of GBS are supported with GemStone/S version 6.6.3.3, with the following client Smalltalk and platforms versions.

GBS version 7.5

| VW 7.9.1 | VW 7.9 |
|--|--|
| <ul style="list-style-type: none"> ▶ Windows XP, Windows 7, and Windows 2008 R2 ▶ Solaris 9 and 10 on SPARC ▶ RedHat Linux ES 5.0, 5.5, and 6.1 | <ul style="list-style-type: none"> ▶ Windows XP, Windows 7, and Windows 2008 R2 ▶ Solaris 9 and 10 on SPARC ▶ RedHat Linux ES 5.0, 5.5, and 6.1 |

GBS version 7.4.1

| VisualWorks 7.8.1 | VisualWorks 7.8 | VisualWorks 7.7.1 |
|--|--|--|
| <ul style="list-style-type: none"> ▶ Windows XP, Windows 7, and Windows 2008 R2 ▶ Solaris 9 and 10 on SPARC ▶ RedHat Linux ES 5.0, 5.5, and 6.1 | <ul style="list-style-type: none"> ▶ Windows XP, Windows 7, and Windows 2008 R2 ▶ Solaris 9 and 10 on SPARC ▶ RedHat Linux ES 5.0, 5.5, and 6.1 | <ul style="list-style-type: none"> ▶ Windows XP and Windows 7 ▶ Solaris 9 and 10 on SPARC ▶ RedHat Linux ES 5.0 and 5.5 |

GBS version 5.2.7

| VA Smalltalk 8.0.2 | VA Smalltalk 7.5.2 |
|--|--|
| <ul style="list-style-type: none"> ▶ Windows XP, Windows 7, and Windows 2008 R2 | <ul style="list-style-type: none"> ▶ Windows XP |

For more information and details, see the *GemBuilder for Smalltalk Installation Guide* for that version. This information, and instructions for upgrading client libraries for GBS, are in the *GemStone/S Installation Guide v6.6.3*, chapter 3.

Changes in this release

Incorrect values for cache statistics **FreeTempOopCount** and **FreePersistentOopCount**

The value of the cache statistics **FreeTempOopCount** and **FreePersistentOopCount** were incorrect; **FreeTempOopCount** was updated incorrectly and had incorrectly large values, while **FreePersistentOopCount** was not always updated and was incorrectly low. (#42841)

These values were also not available via programmatic access using System cacheStatistics:. (#42915)

Ability to skip call to **shmdt()** on cache detach

On POWER7 hardware, especially with hyperthreading, processes may hang for several seconds in **shmdt()** on cache detach. It is possible this may occur on other platforms as well. To avoid this system call, set:

```
export GS_DISABLE_SHMDT=1
```

If not in topaz quiet mode (-q), a message similar to the following is printed to stdout at cache disconnect:

```
[Info]: Skipping shared memory segment detach system call  
shmdt ()
```