


GemStone/S 64 BitTM **Release Notes**

Special Patch Release

Version 3.2.8.3

April 2026



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PATENTS

GemStone software is or has been covered by U.S. Patent Number 6,256,637 "Transactional virtual machine architecture" (1998-2018), Patent Number 6,360,219 "Object queues with concurrent updating" (1998-2018), Patent Number 6,567,905 "Generational garbage collector with persistent object cache" (2001-2021), and Patent Number 6,681,226 "Selective pessimistic locking for a concurrently updateable database" (2001-2021).

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Release Notes for 3.2.8.3

GemStone/S 64 Bit™ 3.2.8.3 is a patch release version of the GemStone/S 64 Bit object server, fixing a critical bug in a legacy product line.

These Release Notes include changes between the previous version of GemStone/S 64 Bit, v3.2.8.2, and v3.2.8.3.

Upgrade

GemStone/S 64 Bit v3.2.8.3 contains a minor image change, in `GciLibrary class >> initializeFunctions`. While running `upgradeImage` is generally recommended, it is not strictly required when upgrading from 3.2.8.1 or 3.2.8.2.

When upgrading directly from v3.2.8.1 or v3.2.8.2 to v3.2.8.3, you may restart GemStone with the new executables without running `upgradeImage`, provided that you:

- Login as SystemUser and execute:

```
SystemRepository _setVersion
```

- Create a symlink in the v3.2.8.3 installation for the shared library name reference, that was not updated for the new version by `upgradeImage`.

```
chmod u+w $GEMSTONE/lib
ln -s $GEMSTONE/lib/libgcirpc-3.2.8.3-64.so
    $GEMSTONE/lib/libgcirpc-3.2.8-64.so
chmod u-w $GEMSTONE/lib
```

Alternatively, you can login as SystemUser and edit the method `GciLibrary class >> initializeFunctions` to use the correct path. This method is required when using `GsExternalSessions`.

Changes in this Release

Repository restoreFromBackup: may hang with oop high water mark exceeding 4 billion.

When the repository's oop number high water mark exceeded 4 billion, a number of operations that scan the entire repository, including backup, restore, MFC and write set union sweep, as well as multithreaded scan operations, could hang in v3.2.8.x. (#46252)

The fix in v3.2.8.2 was incomplete; the `restoreFromBackup`: operation was still subject to hang.