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# **GemStone/S 64 Bit<sup>TM</sup>**

## **Release Notes**

Limited Distribution  
Special Release

**Version 2.4.8.1**

October 2024



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## **PATENTS**

GemStone software 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 2.4.8.1

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GemStone/S 64 Bit™ 2.4.8.1 is a limited-distribution special release version of the GemStone/S 64 Bit object server, updating a C-level call that caused issues on Red Hat v9.x. This release has no image-level changes from 2.4.8.

These Release Notes include changes between the previous version of GemStone/S 64 Bit, v2.4.8, and v2.4.8.1.

## Supported Platforms

GemStone/S 64 Bit version 2.4.8.1 is supported on Linux only, for standard and RPM installation.

- ▶ Red Hat-compatible Linux 7.9, 8.9, and 9.4, and Ubuntu 20.04, on x86. GemStone is tested on a mixture of Red Hat, CentOS, and Rocky; these are all considered fully certified platforms.

Version 2.4.8 shared libraries for other platforms are compatible with 2.4.8.1.

## RPM Installation Changes

Installation via RPM, as described in the existing *GS64-rpm-ConversionGuideFrom32Bit-3.6.1.pdf*, and other RPM installation, is subject to spurious dependency errors. These errors do not reflect actual missing dependencies.

To avoid these errors, use the rpm flag `--nodeps`. For example,

```
rpm -i --nodeps rpmFileName
```

This applies to later versions of GemStone/S 64 Bit through 3.7.1, as well as v2.4.8.1.

## Changes in this Release

### SEGV on Stack overflow on RedHat v9.x

On RedHat 9, the options to the OS `mprotect()` call have changed from earlier Red Hat versions. This causes an SEGV when a Smalltalk stack overflow occurred. (#51158)