


GemStone/S 64 BitTM **Release Notes**

Limited Distribution
Special Release

Version 3.5.0.2

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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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GemStone/S 64 Bit 3.5.0.2 Release Notes (Limited Distribution Special Release)

Overview

GemStone/S 64 Bit 3.5.0.2 is a new limited distribution special release version of the GemStone/S 64 Bit object server, fixing a critical bug introduced in v3.5.

These Release Notes provide changes between the previous version of GemStone/S 64 Bit, version 3.5.0.1, and version 3.5.0.2. If you are upgrading from a version prior to 3.5.0.1, review the release notes for each intermediate release to see the full set of changes.

Supported Platforms

Server and Client Platforms

This limited distribution release includes distributions for Linux and Windows client only.

VSD Version

The GemStone/S 64 Bit v3.5.0.2 distribution includes VSD version 5.4.1. The previous version of GemStone/S, v3.5 included VSD v5.4.

VSD version 5.4.1 is a minor bug fix release, fixing a bug in parsing command line arguments.

Changes in this Release

Remote process support logs may not be written to intended location

The location in which Gem process log files are written is controlled by a number of settings, including `#dir` and `#log` directives in the `GEMSTONE_NRS_ALL` for both NetLDI and Gem and the NRS for a Gem, and `-D` setting for `startnetldi`. There were several changes made in v3.5 in how the precedence of these settings calculated the directory that would be used.

Gem logs were located correctly, but the location calculation for the logs for the shared page cache monitor and cache page server for a remote Gem was not done correctly, and for some configurations, these logs could be written to default location (the home directory).

`startnetldi -X` argument added

The `-X` argument has been added to `startnetldi`, allowing you to pass in an NRS (containing one or more of `#log:`, `#dir:`, and `#netldi:` settings), which take precedence over an `GEMSTONE_NRS_ALL` setting in the environment of the `startnetldi`.

`startnetldi -D` no longer used as default log location

The use of the `startnetldi -D` directory was expanded in v3.5 to be a default directory in the absence of a `#dir: /#log:` directive. This has been backed out, so the home directory is now used for in these cases.

NetLDI failed to close socket if Gem process fork fails

During an RPC login, the NetLDI forks the Gem Process, creating sockets to manage further communications. The NetLDI was failing to close these sockets if the fork failed for some reason, such as unable to create the gem log file. These open sockets could eventually cause NetLDI to fail due to too many open files in the NetLDI process. (#48370)