



Visual Statistics Display (VSD) Release Notes

Version 5.6.3

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PATENTS

GemStone software has been 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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VSD 5.6.3 Release Notes

Overview

Visual Statistics Display (VSD) version 5.6.3 is a new release of the VSD product, fixing several significant bugs.

These release notes describe changes between the previous version of VSD, version 5.6.1, and version 5.6.3.

This version of VSD supports statmonitor files generated from:

- ▶ All versions of GemStone/S 64 Bit™
- ▶ All versions of 32-bit GemStone/S
- ▶ All versions of GemBuilder™ for Smalltalk (GBS)

Supported Platforms

VSD version 5.6.3 is verified and supported on the following platforms:

- ▶ (64-bit) Windows 10 and Windows 11
- ▶ Red Hat Enterprise Server/CentOS/Rocky Linux 7.x, 8.x, and 9.x; Ubuntu 22.04 and 24.04 on x86; and Ubuntu 22.04 on arm64
- ▶ macOS 15.x (Sequoia) and 11.x (Big Sur), on x86 and Apple silicon (ARM).

VSD is expected to work on older versions of these platforms, but end-of-life platform versions are not officially supported.

Changes in this Release

New display control No All Zeros

VSD has an existing display control, **No Flatlines**, which is designed to hide uninteresting zero statistics. This both limits the specific list of statistics that is displayed on the main page, and also prevents including lines for these statistics if the line would be flat (that is, the value does not change in the life of the statmonitor data).

This can hide information for counter type stats, in the case that the underlying data is not zero but does not change. These statistics are included in the display list of statistics, since they are not zero. Since counter type stats display as changes per second, a constant data value results in a flat line of zero.

The new display control, **No All Zeros**, has the same effect on the list of displayed statistic names as **No Flatlines**. When **No All Zeros** is used rather than **No Flatlines**, counter stats with nonzero values are included in the chart, with flat lines at 0. To see the actual value, you must change the filter from **Per Second** to **No Filter**.

No Flatlines and **No All Zeros** are mutually exclusive; selecting one deselects the other.

ReclaimGem session stats not applied in v3.7.1.x and later

VSD automatically applies aliases to session stats according to the server-version specific definitions. These were not recognizing some version numbers. (#51493)

When monitoring GS64 v3.7.2 and later, stop monitoring does not work

VSD allows you to start and stop collecting statistics on a running Stone. Due to changes in signal handling, with v3.7.2 and later stones, VSD stop monitoring was ignored. (#51447)

Line trim may crash VSD

If trimming a line to the right, VSD code may SEGV, due to issues handling timestamps for multiple lines. (#51318)