
GemStone®

Visual Statistics Display (VSD) Release Notes

Version 4.0

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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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VSD 4.0 Release Notes

Overview

Visual Statistics Display (VSD) version 4.0 is a new version of the VSD product. With v4.0, VSD now fully supports millisecond timestamps. Note however that millisecond timestamps are not yet generated by released server or GBS versions. In addition, this release includes several bug fixes.

These release notes include changes since VSD version 3.5.

This version of VSD, like previous versions, can read statmonitor files generated from:

- ▶ All versions of GemStone/S 64 Bit through v3.2.4
- ▶ All versions of 32-bit GemStone/S
- ▶ All versions of GBS through v7.6.1

Supported Platforms

Platforms for Version 4.0

VSD version 4.0 is supported on the following platforms:

- ▶ Windows 7, Windows 2008 R2, and Windows 8
- ▶ Solaris 10 and 11 on SPARC
- ▶ Solaris 10 on x86
- ▶ AIX 6.1, TL1, SP1, and AIX 7.1
- ▶ Red Hat Linux ES 6.1, 6.4 and 6.5; Ubuntu 12.04; and SUSE Linux Enterprise 11 Service Pack 3, on x86
- ▶ Mac OSX 10.6.8 (Snow Leopard), with Darwin 10.8.0 kernel, on x86

Changes in this Release

VSD now understands new millisecond timestamp format

Previous versions of VSD were limited to reading text and GFS data files with timestamps at no more than 1 second intervals.

These previous versions were able to read statmonitor data generated with sub-second intervals, by treating each sample as a 1-second difference from the previous timestamp. This allowed sub-second data to be analyzed, but rendered axis labels less useful.

Now, VSD expects the timestamp field to be either an integer (as in previous releases), or the same timestamp digits followed by a decimal point and three digits of millisecond value. Note that no released products currently produce statmonitor data files with millisecond time stamps. Version 4.0 can read statmonitor data generated by previous versions of GemStone/S 64 Bit and GBS, and will be able to read future data files that do contain millisecond timestamps.

GFS statistics generated by GBS not viewable in VSD on AIX or Solaris

AIX and Solaris only

On big-endian machines, VSD does not correctly display GFS binary format statistical data files; all statistics are shown as zero. GBS generates statistics in the GFS binary format. Data generated from GemStone/S servers is not affected. (#44902)

Improvements to TCL support for large integers and large float values

As part of adding support for millisecond timestamp, code has been reviewed to improve support for larger integer and float values.