GemStone®

Visual Statistics Display (VSD) Release Notes

Version 5.5.3

February 2022

GEMTALK™ SYSTEMS

INTELLECTUAL PROPERTY OWNERSHIP

This documentation is furnished for informational use only and is subject to change without notice. GemTalk Systems LLC assumes no responsibility or liability for any errors or inaccuracies that may appear in this documentation.

Warning: This computer program and its documentation are protected by copyright law and international treaties. Any unauthorized copying or distribution of this program, its documentation, or any portion of it, may result in severe civil and criminal penalties, and will be prosecuted under the maximum extent possible under the law.

The software installed in accordance with this documentation is copyrighted and licensed by GemTalk Systems under separate license agreement. This software may only be used pursuant to the terms and conditions of such license agreement. Any other use may be a violation of law.

Use, duplication, or disclosure by the Government is subject to restrictions set forth in the Commercial Software - Restricted Rights clause at 52.227-19 of the Federal Acquisitions Regulations (48 CFR 52.227-19) except that the government agency shall not have the right to disclose this software to support service contractors or their subcontractors without the prior written consent of GemTalk Systems.

This software is provided by GemTalk Systems LLC and contributors "as is" and any expressed or implied warranties, including, but not limited to, the implied warranties of merchantability and fitness for a particular purpose are disclaimed. In no event shall GemTalk Systems LLC or any contributors be liable for any direct, indirect, incidental, special, exemplary, or consequential damages (including, but not limited to, procurement of substitute goods or services; loss of use, data, or profits; or business interruption) however caused and on any theory of liability, whether in contract, strict liability, or tort (including negligence or otherwise) arising in any way out of the use of this software, even if advised of the possibility of such damage.

COPYRIGHTS

This software product, its documentation, and its user interface © 1986-2022 GemTalk Systems LLC. All rights reserved by GemTalk Systems.

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).

TRADEMARKS

GemTalk, **GemStone**, **GemBuilder**, **GemConnect**, and the GemTalk logo are trademarks of GemTalk Systems LLC, or of VMware, Inc., previously of GemStone Systems, Inc., in the United States and other countries.

UNIX is a registered trademark of The Open Group in the United States and other countries.

Solaris, **Java**, and **Oracle** are trademarks or registered trademarks of Oracle and/or its affiliates. **SPARC** is a registered trademark of SPARC International, Inc.

Intel and **Pentium** are registered trademarks of Intel Corporation in the United States and other countries.

Microsoft, **Windows**, and **Windows Server** are registered trademarks of Microsoft Corporation in the United States and other countries.

Linux is a registered trademark of Linus Torvalds and others.

Red Hat and all Red Hat-based trademarks and logos are trademarks or registered trademarks of Red Hat, Inc. in the United States and other countries.

Ubuntu is a registered trademark of Canonical Ltd., Inc., in the U.S. and other countries.

SUSE is a registered trademark of Novell, Inc. in the United States and other countries.

AIX, **POWER6**, **POWER7**, and **POWER8** and **VisualAge** are trademarks or registered trademarks of International Business Machines Corporation.

Apple, **Mac**, **MacOS**, and **Macintosh** are trademarks of Apple Inc., in the United States and other countries.

CINCOM, **Cincom Smalltalk**, and **VisualWorks** are trademarks or registered trademarks of Cincom Systems, Inc.

Other company or product names mentioned herein may be trademarks or registered trademarks of their respective owners. Trademark specifications are subject to change without notice. GemTalk Systems cannot attest to the accuracy of all trademark information. Use of a term in this documentation should not be regarded as affecting the validity of any trademark or service mark.

GemTalk Systems LLC
15220 NW Greenbrier Parkway
Suite 240
Beaverton, OR 97006

Chapter

1 VSD 5.5.3 Release Notes

Overview

Visual Statistics Display (VSD) version 5.5.3 is a new maintenance release of the VSD product, including minor updates and improvements.

These release notes describe changes between the previous version of VSD, version 5.5.2, and version 5.5.3.

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)

VSD and GemStone/S 64 Bit 3.6.x

GemStone/S 64 Bit 3.6 writes statmonitor data files with a slightly updated format, with a new line containing the statmonitor command line. As a result, VSD 5.5 or later is required in order to read statmonitor files generated by GS64 v3.6 or later.

This version of VSD, and all VSD 5.5.x versions, can read data files generated by older versions of GS64, as well as by v3.6 and later.

Supported Platforms

VSD version 5.5.3 is verified and supported on the following platforms:

- (64-bit) Windows 7 and Windows 10
- Solaris 11.4 on x86
- AIX 7.1 and 7.2
- Red Hat/Centos Linux ES 6.x, 7.x and 8.x; and Ubuntu 16.04, 18.04, and 20.04 on x86; Ubuntu 18.04 on arm64
- OSX 11.1 (Big Sur) with Darwin 20.2.0 kernel on x86 and Apple M1, and OSX 10.15.6 (Catalina) with Darwin 19.6.0 kernel, on x86

Changes and Bug Fixes

Improved Search

Searching for a statistic or process was unintuitive. Now, in addition to the control-S for search, you may use control-F. In addition, the search behavior has been improved. See the online help for details on the search options. (#49783)

The statistics list pane now as a popup menu that includes both **Search For Counter...** and **Show Search Help...**.

Statistics level display controls removed

Individual statistics were defined with levels (Common/Advanced/Wizard), which was intended to allow you to control the number of statistics displayed. In practice, this occasionally resulted in unintentionally hidden statistics. The Main Window **Main > Settings > Statistic Level** menu item has been removed, and the Statistics Information Windows no longer displays a field with the level. The underlying code statistic definition fields are unchanged. (#49833)

Improved Help

VSD's online help has had significant updates for correctness and clarity, broken links removed, and material related to long-divested products has been removed.

Help Window Location recorded

The Help system window location was not recorded in .vsdrc or applied on startup. (#49561)

Default filter for statistics recorded but not applied on startup

The Statistics Information Windows allows you to modify the default filter for a statistic (e.g. persecond, persample, nofilter). Changes were recorded in .vsdrc, but when VSD was started, the default filters were not applied. (#49835)

SessionStats with aliases showed a stat type of unknown

SessionStat01-SessionStat48 are Gem statistics that can be updated using Smalltalk code. These were not correctly identified by VSD as Gem statistics, so they displayed as type unknown in the Statistics Information Window. (#49829)