VSI OpenVMS

PERFDAT V4.8

Release Notes

February 2019

Revision/Update Information	New manual.
Software Version	VSI PERFDAT V4.8
Operating System Version	OpenVMS Alpha V7.3-2 & higher OpenVMS I64 V8.2 & higher

February 2019

Copyright © 2019 VMS Software, Inc., (VSI), Bolton Massachusetts, USA.

VMS Software Inc. makes no warranty of any kind with regard to this material, including, but not limited to, the implied warranties of merchantability and fitness for a particular purpose. VMS Software Inc. shall not be liable for errors contained herein or for incidental or consequential damages in connection with the furnishing, performance, or use of this material.

This document contains proprietary information, which is protected by copyright. No part of this document may be photocopied, reproduced, or translated into another language without the prior written consent of VMS Software Inc. The information contained in this document is subject to change without notice

HPE, the HPE logo, and OpenVMS are trademarks of Hewlett-Packard Enterprise.

Microsoft, MS-DOS, Windows, and Windows NT are trademarks of Microsoft Corporation in the U.S. and/or other countries.

All other product names mentioned herein may be trademarks of their respective companies.

Confidential computer software. Valid license from VSI required for possession, use or copying.

VMS Software Inc. shall not be liable for technical or editorial errors or omissions contained herein. The information is provided “as is” without warranty of any kind and is subject to change without notice. The warranties for VMS Software Inc. products are set forth in the express limited warranty statements accompanying such products. Nothing herein should be construed as constituting an additional warranty.

Contents

Preface 4
PERFDAT Installation Release Notes 6
1.1 Upgrade Path 6
1.2 Kit Content 6
Supported Versions 7
2.1 Supported OpenVMS versions 7
2.2 Discontinued OpenVMS support 7
New Features 8
3.1 VSI PERFDAT upgrade 8
3.1.1 PERFDAT_HOUSEKEEPING.COM will be preserved 8
Bug Fixes 9
4.1 VSI PERFDAT OpenVMS data collector 9
4.1.1 SCS metric is disabled if a cluster member is removed from the cluster 9
4.2 VSI PERFDAT Query Interface (DQL) 10
4.2.1 SHOW ELEMENT command fails if statistics specified in the WHERE clause matches *LIM* or *COMP* 10
Important OpenVMS patch advisory 11

Preface

Audience

This manual is intended for all system managers who have installed VSI OpenVMS PERFDAT on their systems. Read this manual before you install, upgrade or use version V4.8 of VSI PERFDAT.

Document Structure

- Chapter 1 contains installation information
- Chapter 2 contains support information
- Chapter 3 contains OpenVMS patch advisories

Related Documents

The manuals listed below are available in support of this version:

- VSI PERFDAT V4.8– Upgrade and Installation Manual
- VSI PERFDAT V4.8– Architecture and Technical Description
- VSI PERFDAT V4.8– DQL$ Reference Manual
- VSI PERFDAT V4.8– PERFDAT_MGR Reference Manual

All manuals are in *Portable Document Format*(PDF) and are included in the PERFDAT048.A installation kit.
Extract the *PERFDAT_OPENVMS_DOCU_V48.ZIP* file using the OpenVMS BACKUP utility. Then transfer this file to a system such as a PC and UNZIP this file in order to access the individual manuals.

Conventions Used in this Manual

Special	in examples indicates text that the system displays or user typed input.
UPCASE	in a command represents text that you have to enter as shown.
Lowercase Italics	indicates variable information that a user supplies.
[ ]	in a command definition, enclose parts of the command that a user can omit.
Key	indicates a named key on the keyboard; for example, RETURN

CTRL/x	is the symbol used to represent the pressing of a control key. It indicates that the user holds down the key marked Ctrl and simultaneously pressing the appropriate key.

PERFDAT Installation Release Notes

This chapter contains information you need to know before installing or upgrading to VSI PEFDAT V4.8.

VSI recommends that you read the following manuals before installing or upgrading to VSI PEFDAT V4.8:

- VSI PERFDAT V4.8 – Release Notes (this manual)
- VSI PERFDAT V4.8 – Upgrade and Installation Manual

1.1 Upgrade Path

You can upgrade directly to VSI PERFDAT V4.8 from any VSI PERFDAT V4.x release or any ECO level of VSI PERFDAT V3.3. Use the following command to display the actual version of VSI PERFDAT in use:

$ MCR PERFDAT_MGR SHOW VERSION

1.2 Kit Content

In order to reduce the size of the installation kit the ZIP file containing the NET-SNMP V5.1.2 packages for Solaris 2.6, 7, 8 and 9 has been removed from installation kit PERFDAT048.A.

We recommend that these packages are installed on a Solaris system if you want to collect performance data from a Solaris system running one of the operating system versions listed above with the VSI PERFDAT SNMP extension.

2

Supported Versions

2.1 Supported OpenVMS versions

VSI PERFDAT V4.8 supports the following OpenVMS versions:

- HP OpenVMS V7.3-2 AXP
- HP OpenVMS V8.2 AXP
- HP OpenVMS V8.3 AXP
- HP OpenVMS V8.4 AXP
- HP OpenVMS V8.2 IA64
- HP OpenVMS V8.2-1 IA64
- HP OpenVMS V8.3 IA64
- HP OpenVMS V8.3-1H1 IA64
- HP OpenVMS V8.4 IA64
- VSI OpenVMS V8.4-1H1 IA64
- VSI OpenVMS V8.4-2 IA64
- VSI OpenVMS V8.4-2L1 IA64

2.2 Discontinued OpenVMS support

The following OpenVMS versions are not supported by VSI PERFDAT V4.8.

- HP OpenVMS V7.2-2 AXP
- HP OpenVMS V7.3 AXP
- HP OpenVMS V7.3-1 AXP

3

New Features

VSI PERFDAT V4.8 supports the following new VSI OpenVMS releases:

- VSI OpenVMS V8.4-2
- VSI OpenVMS V8.4-2L1

It provides the same functionalities and features as VSI PERFDAT V4.7.

3.1 VSI PERFDAT upgrade

3.1.1 PERFDAT_HOUSEKEEPING.COM will be preserved

The DCL script PERFDAT$BIN:PERFDAT_HOUSEKEEPING.COM is called by the VSI PERFDAT archiving process to cleanup log- and temp-files and the user is permitted to modify this script accordingly.

Prior to VSI PERFDAT V4.8 this DCL script was unconditionally replaced during the upgrade process so that any user modifications were lost except when the script was manually saved before the upgrade was started.

Starting with VSI PERFDAT V4.8 this script will be preserved during the upgrade process.

3

Bug Fixes

4.1 VSI PERFDAT OpenVMS data collector

4.1.1 SCS metric is disabled if a cluster member is removed from the cluster

Prior to V4.8, if a cluster member was removed from a cluster either because it was shut down or it crashed, the SCS data collection failed on the remaining cluster members with an access violation and the SCS metric was automatically disabled.

When this happened the VSI PERFDAT OpenVMS Data collector sent the following OPCOM message:

```
PERFDAT-E-COLLSCS, error during SCS collection processing -> SCS metrix will be disabled
```

In addition, the following trace-back information could be found in the log-file PERFDAT$LOG:PERFDAT_<node name>.LOG:

```
PERFDAT-E-COLLSCS, error during SCS collection processing -> SCS metrix will be disabled

PERFDAT_COLLECTSCS Traceback Information:
Line   895: Function CollectSCSInfo, Status 0xC

PERFDAT_COLLECTSCS Signal Array:
PC = <PC counter>, PSL = 00000203, Signal = 0000000C, 00000000, 00000034
```

The access violation happened because, prior to V4.8, the VSI PERFDAT OpenVMS data collector tried to fetch virtual circuit (VC) performance data unconditionally from all VCs even if some VCs were in a closed state.

Now the virtual circuit state is checked before performance data is collected for a particular VC. If the VC state indicates that the VC is closed or invalid for any other reason this VC is ignored.

4.2 VSI PERFDAT Query Interface (DQL)

4.2.1 SHOW ELEMENT command fails if statistics specified in the WHERE clause matches *LIM* or *COMP*

Prior to V4.8, if the SHOW ELEMENT command was used with the ORDERED BY clause and the WHERE clause referred to statistics that contained the following sub-strings (case insensitive:

- LIM (i.e. Ful**llm**ageName)
- COMP

the command failed with:

DQL-E-INVSYN, syntax error in WHERE clause - metrix /<metric name>/

Due to a bug in the query command parser such statistics were incorrectly identified as protected keywords.

Important OpenVMS patch advisory

If your system is running one of the following HP OpenVMS versions, please ensure that the following version- and platform-specific OpenVMS patches are also installed on the system:

HP OpenVMS Version	OpenVMS Patch Kit
OpenVMS V8.3 AXP	VMS83A_SYS-V1000
OpenVMS V8.3 IA64	VMS83I_SYS-V0800
OpenVMS V8.3-1H1 IA64	VMS831H1I_SYS-V0300

These patches fix a bug in the OpenVMS PMS sub-system that may crash the system if the PMS sub-system is released by VSI PERDAT.

The VSI PERFDAT OpenVMS data collector allocates the PMS sub-system in order to provide the statistics for the following metrics:

- DEVICE
- DEVICE.IOTIMEHIST
- DEVICE.FILE
- DEVICE.PROCESS
- DEVCE.PROCESS.FILE

Note

If you do not have these patches installed do NOT stop the VSI PERFDAT OpenVMS data collector and do NOT upgrade VSI PERFDAT (a VSI PERFDAT upgrade implicitly stops the OpenVMS data collector) to V4.8 until you have installed these patches and you have rebooted your system.