

HP Performance Agent

for the HP-UX operating system

Release Notes

Software version: 4.70/September 2007

This document provides an overview of the changes made to HP Performance Agent for the 4.70. It contains important information not included in the manuals or in online help.

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In This Version

This release of HP Performance Agent has the following features:

Other

The following new metrics are included:

All Classes(except Configuration Class):

STATDATE
STATTIME

Global Class:

GBL_CPU_WAIT_UTIL
GBL_MEM_DNLC_HIT_PCT
GBL_LOADAVG
GBL_LOADAVG5
GBL_DISK_PHYS_READ_PCT
GBL_MEM_VIRT
GBL_NET_DEFERRED_PCT
GBL_DISK_REQUEST_QUEUE
GBL_CPU_CLOCK
GBL_MEM_CACHE_WRITE_HIT
GBL_MEM_CACHE_WRITE_HIT_PCT

This release also includes enhancements and defect fixes. See the "Enhancements and Fixes" section for details.

▶ Before using HP Performance Agent, you must review and accept the license terms and conditions spelled out in the readme file available in /<directory>/HPUX/README, where <directory> is your DVD-ROM.

In this version the names HP OpenView Performance Agent is changed to HP Performance Agent and HP OpenView Operations is changed to HP Operations Manager.

▶ The new product name change is applicable to version 4.70 and later. Any references to earlier versions of HP Performance Agent will still have the name as HP OpenView Performance Agent.

Documentation Updates

The first page of this release notes document contains the following identifying information:

- Version number, which indicates the software version.
- Publish date, which changes each time the document is updated.

To check for recent updates or to verify that you are using the most recent edition, go to the following web site:

http://ovweb.external.hp.com/lpe/doc_serv/

▶ To view files in PDF format (*.pdf), Adobe Acrobat Reader must be installed on your system. To download Adobe Acrobat Reader, go to the following web site:
<http://www.adobe.com/>

Installation Notes

For installation requirements and instructions, refer to "HP Performance Agent for HP-UX Installation and Configuration Guide" provided as part of the product in Adobe Acrobat (.pdf) format and found as ovpainst.pdf in /opt/perf/paperdocs/ovpa/C/.

Before installing HP Performance Agent, make sure that your system meets the following minimum hardware and software requirements:

- Hardware
 - HP 9000, Integrity Servers and HP Workstations supported on the HP-UX 11i Version 1, Version 2, and Version 3 release and later.
- OS platform and compatibility
 - HP-UX 11i Version 1 (11.11) for the PA-RISC architecture
 - HP-UX 11i Version 2 (11.23) and later for both the Itanium (TM) and PA-RISC architectures
 - HP-UX 11i Version 3 (11.31) and later for both the Itanium (TM) and PA-RISC architectures

- Disk space

HP Performance Agent installs in the `/opt/perf/` and `/opt/OV` directories and creates its log and status files in the `/var/opt/perf/` and `/var/opt/OV` directories.

- recommended 70 MB space in the `/opt/perf/` and `/opt/OV` directories for first-time installation of HP Performance Agent
- recommended 125 MB space in the `/var/opt/perf/` and `/var/opt/OV` directories for log and status files

- Compatibility:

- On HP-UX 11.11, the following patch must be installed to use the correct version of `libc`.

`PHCO_31903` (or superseding patch)

- On HP-UX 11.11, the following patch must be installed to use the correct version of `libnm.1`. This patch is a Cumulative ARPA Transport patch.

`PHNE_27063` (or superseding patch)

- HPUX 11.11 and beyond running EMC PowerPath v2.1.2 or v3.0.0 must have the latest EMC patches installed to avoid conflicts with the HP Performance Agent/ GlancePlus products. Without these EMC patches, problems can occur ranging from HP Performance Agent/GlancePlus product core dumps to invalid disk queue metrics.

For the EMC PowerPath v2.1.2 release, use the following patch:

`EMCpower_patch213 HP.2.1.3_b002` (or superseding patch)

For the EMC PowerPath v3.0.0 release, use the following patch:

`EMCpower_patch301 HP.3.0.1_b002` (or superseding patch)

For more details about these EMC patches or to check whether a superseding patch is available, contact EMC Support.

- HP-UX 11.11 requires the following patches for the performance tools to properly run with VERITAS Volume Manager 3.2:

`PHKL_26419` for HP-UX B.11.11 (11.11) (or superseding patch)

`PHCO_26420` for HP-UX B.11.11 (11.11) (or superseding patch)

- If multiple processor sets are configured on an HP-UX 11.11 system and you are using the `log application=prm` switch in the `parm` file to log APP_ metrics by PRM Group, you must install the following kernel patch for it to function correctly:

`PHKL_28052` (or superseding patch)

- This revision of HP Performance Agent is verified to work with Process Resource Manager (PRM) version C.03.02.



If you are installing or upgrading HP Performance Agent on a system, on which GlancePlus is already installed, you must upgrade GlancePlus to the same release version. The GlancePlus and HP Performance Agent versions must always be the same.



There is no web fulfillment mechanism to convert the HP Performance Agent images to a non-trial licensed product. To obtain the production (non-trial) version of HP Performance Agent, you must purchase a License-to-Use product for each system on which HP Performance Agent images are installed, and at least one copy of the HP Performance Agent media product for your overall environment. The production software for HP Performance Agent must be installed from the media. It can be installed directly over the trial software (You need not remove the trial software).

Special Installation instructions

If you are installing HP Performance Agent 4.7 on a system on which if one or more of the following OV products are installed, it is recommended to restart them after HP Performance Agent 4.7 installation:

- 1 HP Operations Agent
- 2 HP Operations Manager for Unix
- 3 HP Performance Manager
- 4 HP Performance Insight
- 5 OV Internet Service

Enhancements and Fixes

The following issues (identified by error tracking number) are fixed in this release:

QXCR1000347704:

PROBLEM: Support logging of PROC_PROC_CMD in HP Performance Agent logs.

FIX: An option is provided in parm file to enable or disable logging of PROC_PROC_CMD in HP Performance Agent logfiles.

QXCR1000383942:

PROBLEM: Provide an option to disable flush option.

FIX: The flush interval can be disabled by setting flush at zero (i.e. flush = 0). If the flush is set to zero, the scopeux never logs the application and device data which are not meeting threshold values.

QXCR1000216935:

PROBLEM: RECORDS PER HOUR are limited to one record per second for logging DSI data.

FIX: RECORDS PER HOUR limit is increased to allow logging of more unsummarized data records per hour. To support this a new option "-u" is introduced with sdlcomp and need to use this option if more than one unsummarized data record per second need to be logged.

QXCR1000347643:

PROBLEM: Provide an option to Manage log file by days in addition to size.

FIX: Two new parameters "days" and "maintweekday" are introduced in parm file. The "days" parameter controls how large the scopeux logfiles can grow in terms of number of days of data logged. The "maintweekday" parameter specifies the day of the week log file maintenance is done once the limit for days parameter is met. The log file continues to grow even though the limit for days parameter is met until maintweekday when log file roll back is done removing the exceeded number of days of data from start of log file at mainttime.

QXCR1000026539:

PROBLEM: The metric GBL_MEM_PAGE_REQUEST_RATE is capped at 3276.7.

FIX: This issue associated with capping of metric GBL_MEM_PAGE_REQUEST_RATE has been resolved.

QXCR1000399040:

PROBLEM: Wrong libarmjava library is bundled in package for HP-UX 11.23 PA-RISC

FIX: Issue is fixed and correct libarmjava library is provided.

QXCR1000041926:

PROBLEM: Customer would like permissions of the status files to be changed.

FIX: Now the status files and the SCOPE log files have "644" permission.

QXCR1000372676:

PROBLEM: GBL_STATDATE, GBL_STATTIME, GBL_INTERVAL have to be included in all extracts.

FIX: New metrics STATDATE and STATTIME have been added to provide the ending time stamp for each interval in Performance Agent. The above metrics have been added to all the classes except for 'Configuration'.

QXCR1000419708:

PROBLEM: CODA aborts intermittently while serving DSI data sources containing a large number of classes.

FIX: Now the problem is fixed.

QXCR1000420544:

PROBLEM: When lvm class is enabled in parm file, CODA fails to run after some time.

FIX: The problem has been resolved now and the coda no longer aborts with too many open files error.

QXCR1000423212:

PROBLEM: OVPA communication daemon is not started automatically in the following scenarios:

- 1 After a reboot
 - 2 If "ovc -kill" is issued before "ovpa start"
-

FIX: Now OVPA communication daemon starts fine in all scenarios.

QXCR1000423390:

PROBLEM: Alarming based on process loop syntax in alarmdef file does not work consistently.

FIX: Now the problem is fixed.

QXCR1000438220:

PROBLEM: Under certain conditions rep_server fails to start when Performance Agent is configured in DCE data comm because of fstat() error.

FIX: The problem has been fixed now and rep_server no longer aborts during start up.

QXCR1000384929:

PROBLEM: GBL_PRI_QUEUE value is different in GlancePlus and Performance Agent.

FIX: Issue is fixed and the value is now consistent in GlancePlus and Performance Agent.

QXCR1000410616:

PROBLEM: Disk stats are incorrectly collected by Performance Agent.

FIX: Performance Agent now updates the file system addition/deletion without restarting scope.

Known Problems, Limitations, and Workarounds

QXCR1000346247:

PROBLEM: HP Performance Agent alarming module (alarmgen/perfalarm) processes the logged records every 15 seconds. Even if the logging interval is configured to less than 15 seconds (in case of PROCESS class), alarmgen/perfalarm processes all the logged records at the next 15 seconds boundary. Alarms generated on these records will have the timestamp of the last record processed.

For example:

If an alarm condition is met at 00:02:10, the alarmgen/ perfalarm will process that record at 00:02:15, and reports alarm start time as 00:02:00.

If an alarm condition is ended at 00:02:10, the alarmgen/perfalarm will process that record at 00:02:15, and reports alarm end time as 00:02:15..

WORKAROUND: None.

PROBLEM: Extract of logical data in combination with other classes of metrics are not supported. Example, extract -xt -ip / -id /-it / -idy (not supported).

WORKAROUND: Logical class of metrics can be extracted independently. Example, extract -xt -i is supported.

PROBLEM: On virtually partitioned systems, if the CPUs on a partition are removed/deleted, the CPU State is shown as "Disabled" in both HP Performance Agent and GlancePlus. Also, if the released CPUs are added to other partitions, still the CPU State is shown as "Disabled", on the partition where that CPU was removed.

WORKAROUND: NONE.

QXCR1000240349:

PROBLEM: BBC5 daemon fails to start on a system with PV (PerfView) installed. The default port for pvalarm, the "PV alarm management" daemon is 383, which conflicts with the default port for BBC communication broker daemon ovbbccb.

WORKAROUND: Choose a different port for pvalarm.

PROBLEM: On Itanium-based systems, HP Performance Agent 4.7 and OVOU Management Server 8.x (up to 8.10) for HP-UX can not coexist.

WORKAROUND: NONE.

PROBLEM: If you are installing on an HP-UX 11.23 system, you may see the following warning message for GlancePak and HP Performance Agent bundles.

WARNING: The software specification "B3699AA" refers to a bundle (or to a product, subproduct or fileset within a bundle). Only some of the software specified could be selected. The messages below show the items, which could not be selected and those items which were selected but generated a warning:

WORKAROUND: This message can be safely ignored.
Note: In Hp-UX 11.31, If the same data is being accessed by read/write system calls and mmap, the IO type will be determined by the first access. If the data is accessed by read/write first, then it will be categorized FS_IO whereas if mmap() was done first, it will be VM_IO.

PROBLEM: Extract with WK1/SPREADSHEET format has cell width limit of 255 characters. This limit truncates PROC_PROC_CMD metric length to 255 when extracted with WK1/SPREADSHEET format.

WORKAROUND: NONE.

Documentation Errata

None.

Software Version Information and File Placement Plan

Version Information

For a summary of version strings of the major executable components of HP Performance Agent for HP-UX, use the following command:

```
/opt/perf/bin/perfstat -v
```

File Placement

The following is a list of directory locations for product files. For a list of all files in the product, enter the command:

```
/usr/sbin/swlist -l file MeasureWare MeasurementInt
```

- **Release Notes (English):**
/opt/perf/ReleaseNotes/
- **Release Notes (Japanese):**
/opt/perf/ReleaseNotes/ja_JP.SJIS/
- **Executables including UI programs, daemons, and scripts:**
/opt/perf/bin/
- **Shared component binaries:**
/opt/OV/bin/
/opt/OV/lbin/
- **Shared component libraries:**
/opt/OV/lib/
- **Examples (refer to the README file in the directory for more information):**
/opt/perf/examples/
- **Man pages (English):**
/opt/perf/man/man1/
/opt/perf/man/man3/
/opt/perf/man/man4/
- **Man pages (Japanese):**
/opt/perf/man/ja_JP.SJIS/man1/
- **Printable documents:**
/opt/perf/paperdocs/ovpa/C/
/opt/perf/paperdocs/arm/C/

- **Printable documents:**
 /opt/perf/paperdocs/ovpa/C/
 /opt/perf/paperdocs/arm/C/
- **Default configuration and template files:**
 /opt/perf/newconfig/
 /opt/perf/newconfig/etc/rc.config.d/
- **Product configuration and status files:**
 /var/opt/perf/
 /var/opt/OV/conf/perf/
- **Product data and internal-use files (created during and after installation):**
 /var/opt/perf/datafiles/
- **Development include files:**
 /opt/perf/include/
- **Library files:**
 /opt/perf/lib/
 /opt/perf/lib/hpux32
 /opt/perf/lib/hpux64
 /opt/perf/lib/pa20_64
- **HP Performance Agent bootup scripts:**
 /sbin/init.d/ovpa
 /sbin/rc1.d/K190ovpa [linked to /sbin/init.d/ovpa]
 /sbin/rc2.d/S810ovpa [linked to /sbin/init.d/ovpa]
- **Online help files:**
 /opt/perf/help/ovpa/C/
- **Message catalogs:**
 /opt/perf/lib/nls/msg/C/

Local Language Support

Localization into Japanese (ja_JP.SJIS) is provided. This version of HP Performance Agent product and supporting user documentation are available in Japanese (ja_JP.SJIS).

The Japanese editions of the following HP Performance Agent manuals are available in PDF format at:

<http://www.jpn.hp.com/go/manual>:

These manuals are:

- HP Performance Agent for HP-UX Installation and Configuration Guide
- HP Performance Agent for UNIX User's Manual
- HP Performance Agent for UNIX Data Source Integration Guide
- HP Performance Agent and GlancePlus for UNIX Tracking Your Transactions

- Application Response Measurement (ARM) API Guide

Support

You can visit the HP Software support web site at:

www.hp.com/go/hpsoftwaresupport

This web site provides contact information and details about the products, services, and support that HP Software offers.

HP Software online software support provides customer self-solve capabilities. It provides a fast and efficient way to access interactive technical support tools needed to manage your business. As a valued support customer, you can benefit by using the support site to:

- Search for knowledge documents of interest
- Submit and track support cases and enhancement requests
- Download software patches
- Manage support contracts
- Look up HP support contacts
- Review information about available services
- Enter into discussions with other software customers
- Research and register for software training

Most of the support areas require that you register as an HP Passport user and sign in. Many also require an active support contract. To find more information about support access levels, go to the following URL:

http://h20230.www2.hp.com/new_access_levels.jsp

To register for an HP Passport ID, go to the following URL:

<http://h20229.www2.hp.com/passport-registration.html>

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