

HP OpenView GlancePlus

For the Linux Operating System

Release Notes

Software version: C.04.50 / October 2005

This document provides an overview of the changes made to HP OpenView GlancePlus (OV GlancePlus) version C.04.50. It contains important information not included in the manuals or in the online help.

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In This Version

This release of OpenView GlancePlus supports the following features:

- Support for OV GlancePlus on Red Hat, SuSE, Debian and Turbo distributions of Linux. Refer to section [Installation Notes](#) for more details.
- Dependency of `ttd` on `rpcbind` or `portmap` is eliminated. `ttd` is modified to function independently of `rpcbind` or `portmap`.
- Addition of the `PROC_PROC_CMD` process-level metric to OV GlancePlus:
This metric provides the full command string for a process.
- New `parm` file options have been added to take advantage of process arguments and command strings.
 - `javaarg` flag, when set in the `parm` file, will override the value of `PROC_PROC_ARGV1` specifically for `java` and `jre` processes. When `javaarg` is set to true, the value of `PROC_PROC_ARGV1` will be replaced with the `java` class or `jar` name extracted from the process' command string (no matter where it occurs). As an example, if a process command string is:

```
./java -Xms128M -D_hildago com.myco.myron -threadqueuemax 20
```

- If `javaarg` is not set (false), the value of `PROC_PROC_ARGV1` would be `-Xms128M`. However, if `javaarg` is set to true, then the value of `PROC_PROC_ARGV1` would be `com.myco.myron`. The `parm` configuration value of the `javaarg` flag is stored in the OVPA configuration metric class as `GBL_JAVAARG`.
- `argv1=` parameter allows you to bucket processes into applications based on pattern matching and asterisk wild cards (the pattern string is compared with `PROC_PROC_ARGV1` metric). When used with the `javaarg` flag, it is useful to define Java applications. For the above process example, with `javaarg` true, you could define an application such as:

```
application = myapp
argv1 = com.myco.*
```

- `cmd=` parameter allows you to bucket processes into applications based on a very flexible pattern matching algorithm using the entire command string of processes. Another way to define the application in the above example would be:

```
application = myapp
cmd = *my[Cc]o.*
```

- The `/opt/perf/newconfig/parm` default file is updated with more examples demonstrating the features discussed with the example.
- The number of applications that can be defined in the `parm` file is increased to 998; increase in number of application definitions affects the performance of perf tools.
- Added the `-aos` command line option as an alternative to the `-adviser_only -syntax` option.
- This release includes minor enhancements and defect fixes. Refer to the [Enhancements and Fixes](#) section for more details.

► Before using OV GlancePlus software, you must review and accept the license terms and conditions in the `readme` file available in `/<directory>/README`, where `<directory>` is your CD-ROM

Installation Notes

For installation requirements and instructions, refer to *HP OpenView GlancePlus for Linux Installation Guide*, provided as part of the product in Adobe Acrobat (.pdf) format as gpinst.pdf in /opt/perf/paperdocs/gp/C/.

Software and Hardware Requirements

For installation requirements and instructions, refer to *HP OpenView GlancePlus for Linux Installation Guide*, provided as part of the product in Adobe Acrobat (.pdf) format as gpinst.pdf in /opt/perf/paperdocs/gp/C/.

Before installing OV GlancePlus, make sure your system meets the minimum requirements specified below. These requirements apply to both xglance (the Motif interface) and glance (the character mode interface), unless otherwise noted:

- Hardware Requirements
 - System with Intel Pentium equivalent architecture (x86)
 - System with AMD64 architecture (x86_64/EM64T)[requirement]
- Linux Distribution Compatibility
 - On 32-bit Intel Pentium (x86):
 - Red Hat Enterprise Linux (ES/AS/WS) 2.1, 3 and 4
 - SuSE 8.x and 9.x
 - Debian 3.0 r2/r3/r4
 - TurboLinux Server 8
 - On 64-bit systems (x86_64):
 - Red Hat Enterprise Linux (ES/AS/WS) 3 and 4 (64 bit)
 - SuSE 9.x (64 bit)

NOTE FOR DEBIAN LINUX INSTALLATIONS:

Instructions to load RPM packages incase RPM is not installed on the system:

If the directory `/usr/bin/rpm` does not exist on your system, then you need to obtain a copy of Red Hat Package Manager (RPM) that works on your Debian Linux system. Once you have RPM installed, then the following commands can be used to install OV GlancePlus:

```
mkdir /var/lib/rpm  
rpm --initdb --dbpath /var/lib/rpm  
cd <Your-CD-ROM-Directory>  
./glance.install -f
```

The OV GlancePlus installation is dependent on `libXm.so.3` library provided by the libmotif3 package. On Debian systems, libmotif3 is available from version 3.1 onwards. If you are installing OV GlancePlus on Debian 3.0, you must download and install the backport of libmotif3 for Debian 3.0.

A *forced* install using the `-f` option is recommended as outlined in RPM package installation instructions. Frequent checking of the Debian site for an updated status of this package is also recommended. The libmotif3 package is used by the `xglance` binary only.

- Terminals
 - `glance`: Any terminal supported by the curses library
 - `xglance`: X-terminal or X-workstation display or emulator. Not all mouse functions are supported by every X server emulator.
- Software Requirements - Linux Packages

The following non-OpenView runtime libraries are required for OV GlancePlus to be installed successfully:

- C++ runtime needed by multiple OV GlancePlus binaries.
- For systems with kernel version 2.4:
`/usr/lib/libstdc++-libc6.1-1.so.2`
- For systems with kernel version 2.6:
`/usr/lib/libstdc++.so.5`
- X/Motif runtime library is needed by `xglance`:
`/usr/X11R6/lib/libXm.so.3`
- Curses runtime library needed by `glance`:
`/usr/lib/libncurses.so.5`

To verify if these libraries are installed on your system, run the following command.

```
rpm --query --whatprovides <library-name>  
dpkg -s <library-name> (for Debian systems)
```

These libraries can exist in one or more RPM packages available with the operating system media or can be downloaded from the Internet.

- Disk space

OV GlancePlus is installed in the `/opt/perf/` directory and some of its components create status files in the `/var/opt/perf/` directory. OV GlancePlus also creates one or more control files in the home directory of the user.

- OV GlancePlus approximately uses 20 MB of disk space in the `/opt/` directory when installed for the first time and uses a minimal space (status files) in the `/var/opt/perf/` directory.
- Runtime memory:
 - `xglance`: approximately 20 MB of virtual memory
 - `glance`: approximately 10 MB of virtual memory

 If you are installing or upgrading GlancePlus on a system that already has OVPA installed, upgrade OVPA to the same release version. GlancePlus and OVPA versions must always be the same.

Enhancements and Fixes

The following items (identified by error tracking number) are fixed in the current software release.

QXCR1000206685

PROBLEM: In OVPA and Glance on Linux all Oracle processes are named as `oracle`.

FIX: The problem of OVPA and Glance interpreting all Oracle process names as `oracle` has been fixed. Now OVPA and Glance resolve Oracle process names correctly.

QXCR1000247399

PROBLEM: Null pointer exception when trying to get Correlator Data for second-level correlation.

FIX: The problem of Null Pointer Exception when trying to get Correlator Data for second-level correlation in a Java program is resolved.

Known Problems, Limitations, and Workarounds

QXCR1000046025 (Legacy ID R555019786)

PROBLEM:

Some Linux kernels (2.4 versions), disk util, and queue metrics have a zero value or a larger value. Some Linux kernels do not support the instrumentation needed to create proper values for the following metrics:

- GBL_DISK_UTIL_PEAK
- GBL_DISK_REQUEST_QUEUE
- BYDSK_UTIL
- BYDSK_REQUEST_QUEUE
- BYDSK_CURR_QUEUE_LENGTH
- BYDSK_AVG_REQUEST_QUEUE
- BYDSK_QUEUE_*_UTIL
- BYDSK_AVG_SERVICE_TIME

These metrics have a value of zero or incorrect values.

WORKAROUND None

Documentation Errata

None

Software Version Information and File Placement Plan

Version Information

For a summary of version strings for the major executable components of GlancePlus for Linux systems, run the command:

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

File Placement

The following is a list of directory locations for product files:

Release Notes:

```
/opt/perf/ReleaseNotes/
```

Executables including UI programs, daemons and scripts:

```
/opt/perf/bin/
```

Examples (refer to the README file in the directory for more information):

/opt/perf/examples/arm

Man pages:

/opt/perf/man/

Printable documents:

/opt/perf/paperdocs/gp/C/

/opt/perf/paperdocs/arm/C/

Default configuration and template files:

/opt/perf/newconfig/

Development include files:

/opt/perf/include/

Library files:

/opt/perf/lib/

xglance online help files:

/opt/perf/hyperhelp

Application defaults file for xglance:

/opt/perf/hyperhelp/app-defaults

Temporary copy of application defaults file for gpm:

/opt/perf/newconfig/app-defaults/C

Production copy of application default file for gpm:

/var/opt/perf/app-defaults/C

Configuration startup files:

~userid/

Local Language Support

Localized OV GlancePlus is not currently available for Linux systems.

Support

Please visit the HP OpenView support web site at:

<http://www.hp.com/managementsoftware/support>

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

HP OpenView 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 valuable support customer, you can benefit by being able to:

- Search for knowledge documents of interest

- Submit and track progress on support cases
- Submit enhancement requests online
- Download software patches
- Manage a support contract
- Look up HP support contacts
- Review information about available services
- Enter 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://www.hp.com/managementsoftware/access_level

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

<http://www.managementsoftware.hp.com/passport-registration.html>

Online Documentation

To check for recent updates or to verify that you are using the most recent edition, visit the following URL:

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

- 1 In the Product list, click the product name.
- 2 In the Version list, click the version number.
- 3 In the OS list, click the OS type.
- 4 In the document list, click the document title.
- 5 To retrieve the document, click Open or Download.

► 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 URL:

<http://www.adobe.com>

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