HP GlancePlus

For HP-UX 11i v1 and Later

Software Version: 4.70

Installation Guide

hp ®

invent

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- Submit and track support cases and enhancement requests
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- 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 a support contract.

To find more information about access levels, go to:

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

To register for an HP Passport ID, go to:

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

Contents

1 Installing, Upgrading and Running HP GlancePlus

HP GlancePlus Components

GlancePlus gives you extra flexibility by providing you with two components: gpm, the Motif® interface, and glance, the character mode interface. Both are based on the same rich set of performance data.

GlancePlus supports monitoring of HP Integrity Virtual Machines 2.0, for more information, refer to the section, GlancePlus on a Virtualized Environment on page 12.

gpm

Use gpm, the Motif interface, to:

- View performance through a graphical user interface with multiple window capability

- Use powerful help subsystems including graphics, hyperlinks, and On Window and On Item capabilities

- Alert you to potential problems with alarm capabilities

- Monitor your system while you are doing other work

- Manage your Process Resource Management (PRM) environment.

glance

Use glance, the character mode interface, to:

- Monitor performance over slow data communications links

- Monitor the system remotely

- Monitor the system when an X-display is not available
- Alert you to potential problems with alarm capabilities

System Requirements

Before installing GlancePlus, make sure that your system meets these system requirements. These requirements apply to both gpm and glance, unless otherwise noted.

Hardware

HP 9000, Integrity Servers, and HP Workstations.

Operating System

- HP-UX 11i v1 release for the PA-RISC architecture.
- HP-UX 11i v2 release for both the Itanium (TM) and PA-RISC architectures
- HP-UX 11i v3 release for both the Itanium (TM) and PA-RISC architectures

> GlancePlus is supported on standard operating system kernels. Modifications to certain critical kernel parameters might affect the proper running of the product.

Software Dependency

Refer to the Release Notes for the latest information on software dependencies for gpm.

Disk Space

The GlancePlus product uses approximately 40 MB in the /opt/ directory path for first-time installation as well as minimal space (for log files) in the /var/opt/perf/ directory. The Japanese version requires an additional 10 MB.

Terminals

- gpm: HP X-terminal or X-workstation display
- glance: Any terminal supported by the curses library

Runtime Memory

- gpm: Approximately 20 MB of virtual memory
- glance: Approximately 10 MB of virtual memory

Installing or Upgrading GlancePlus

Following the steps below, it will take you less than 10 minutes to update all files from your GlancePlus source media. If you have a Factory Integrated System, your software has already been installed for you; skip the steps and read the two paragraphs at the end of this section.

▶ To run GlancePlus with HP Performance Agent, you must upgrade both products to the same release version.

1 Log in as **root**.

2 If you have previously installed GlancePlus or HP Performance Agent, run perfstat to check for active performance tools:

   /opt/perf/bin/perfstat

   If anyone is currently running glance or gpm, ask them to exit these programs.

3 If HP Performance Agent is running, stop it and all performance tool daemons by entering:

   /opt/perf/bin/mwa stop

4 Make sure the midaemon is *not* active by typing:

   /opt/perf/bin/midaemon -T

5 Make sure the ttd is *not* active by typing:

```
/opt/perf/bin/ttd -k
```

▶ If you stop ttd, any ARM-instrumented applications that are running must also be stopped before you restart ttd and GlancePlus processes.

6 Run perfstat again to make sure all the performance tools have been stopped.

7 If this is your first GlancePlus installation and you do not have a minimum of 40 MB of disk space in /opt, create a new *<path>*/perf directory in a location where you do have the space. Symbolically link it to /opt/perf. (Look at the ln man page if you need more information about creating symbolic links.)

8 Run swinstall to install GlancePlus, just as you install any other software package on HP-UX.

```
swinstall -s  <hostname>:<depot_path> <product_bundle_ID>
```

9 Change the source to point to your installation media and select the GlancePlus Pak bundle (or the GlancePlus bundle if you did not purchase GlancePlus Pak).

▶ If installation fails in the analysis phase, other performance tools (for example, Performance Agent) may still be running. The swinstall log file will contain instructions for stopping the software. Refer to Step 2 above for instructions.

Installation of GlancePlus automatically updates files used by /etc/profile and allows the users to access the product and the man pages without explicitly updating their shell environment variables. This takes effect the next time you log in. The product executable files reside in /opt/perf/bin and the man pages reside in /opt/perf/man.

Applications are defined in the parm file, located in /var/opt/perf. You can customize your parm file to match your system usage. For more information, refer to the section "Defining Applications" in the online help.

The /opt/perf/examples/ directory contains examples of configuration files, syntax files, and sample program files that can be used to customize your HP Performance Tools. For example, the /examples/adviser/ directory contains examples of adviser syntax and the /examples/arm/ directory contains Application Response Measurement sample files. For more information, see the /opt/perf/examples/README file.

GlancePlus on a Virtualized Environment

This version of GlancePlus supports monitoring of HP Integrity Virtual Machines 2.0 and later. GlancePlus can be installed both on the guest and host operating systems. For installation procedures refer to the section, Installing or Upgrading GlancePlus on page 10.

▶ *HPVM 1.0 is not supported by Performance Agent and HP GlancePlus (GlancePlus).*

GlancePlus on the Host Operating System

Host operating system is the system on which HPVM is installed. When installed on the host machine, GlancePlus captures the following:

- System wide performance, application, transaction and resource usage data.
- Individual virtual machine's performance and resource usage data.

  A new class of metrics, BYLS, is introduced to record performance and resource data for individual guest operating systems.

GlancePlus on the Guest Operating System

Guest operating systems are the systems that run on HPVM. When installed on the guest operating system, GlancePlus captures system wide performance, resource, and transaction data. All the resource utilization values captured represent the logical utilizations.

▶ For complete list of metrics and descriptions, refer to the *Dictionary of Performance Metrics.*

Running GlancePlus

To run GlancePlus, you must be logged into the system where it was installed.

1   To run the GlancePlus Motif interface, you need to export the display to your workstation. Use one of the following commands:

Korn shell: **export DISPLAY=**<*workstationid*>**:0.0**

C-shell: **setenv DISPLAY** <*workstationid*>**:0.0**

Bourne shell: **DISPLAY=**<*workstationid*>**:0.0**
                    export DISPLAY

<*workstationid*> is the name of the workstation where you want to run GlancePlus.

2   To start GlancePlus in the Motif interface, enter:

> **gpm**

To start GlancePlus in the Character Mode interface, enter:

> **glance**

Removing GlancePlus

If you need to remove GlancePlus from a system, run the swremove script that is in the /usr/sbin/ directory. Before removing GlancePlus, this script will check to see if you wish to remove log and data files that were created.

Remove GlancePlus by entering:

> **swremove** <*file_ProductID*>

<*file_ProductID*> is the ID you used to install GlancePlus with the swinstall script, either as a separate bundle or as part of the GlancePlus Pak bundle.

2 Documentation

Release Notes

For additional information about this release of GlancePlus, refer to the
GlancePlus Release Notes located in:

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

Online Help

For gpm users

- To learn about the features available in the Motif interface version of
  GlancePlus, click on the **Help** menu in any gpm window.

- To get help on a particular gpm window, display the window, then select **On
  This Window** from the Help menu.

- To get help on a particular item in an gpm window, click the **?** button in the
  top right corner of the window, then click the item you want to know
  about. Note that gpm will stay in the **On Item Help** mode until you click the
  ? button again.

  You can also get help on an item by pointing to the item, then clicking the
  right mouse button.

For glance users:

To learn about all of the features available in the character mode version of
GlancePlus, enter the **h** command or select the **Help** softkey. Type **?** to display
the glance command menu.

Viewing and Printing Documents

The GlancePlus software includes the standard GlancePlus documentation set in viewable and printable file formats. You can view the Adobe Acrobat format (*.pdf) documents online and print as needed. ASCII text (*.txt) documents are also printable. However, you can view a text file on your screen using any UNIX text editor such as vi.

The documents are listed in the following table along with their file names and online locations.

Table 1   GlancePlus Documentation Set

Document	File Name	Location
HP GlancePlus software Installation Guide	gpinst.pdf	/opt/perf/ paperdocs/gp/C/
GlancePlus for HP-UX Metrics Dictionary	gp-metrics.txt	/opt/perf/ paperdocs/gp/C/
HP Performance Agent and GlancePlus Tracking Your Transactions Manual	tyt.pdf	/opt/perf/ paperdocs/arm/C/
Application Response Measurement (ARM) API Guide	arm2api.pdf	/opt/perf/ paperdocs/arm/C/

Viewing Documents on the Web

The listed documents can also be viewed on the HP Software Manuals web site at:

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

Select **glanceplus** from the product list box, select the **release version** (which automatically selects the appropriate OS), and click **[Open]** to view the document online, or click **[Download]** to place the file on your computer.

Adobe Acrobat Files

The Adobe Acrobat files were created with Acrobat 7.0 and can also be viewed with the Adobe Acrobat Reader versions 4.0 and higher. If the Acrobat Reader is *not* in your Web browser, you can download it from Adobe's web site:

http://www.adobe.com

While viewing a document in the Acrobat Reader, you can print a single page, a group of pages, or the entire document.

From HP-UX, you can read a PDF document using the `acroread` command, if you have installed the Adobe Acrobat Reader on your system. Enter the following command where *<path>* is the location of the `acroread` command.

<path>/**acroread** *filename.pdf*

ASCII Text Files

To print a text file, type:

lp -dprintername *filename*

For example,

lp -dros1234 metsun.txt