

HP GlancePlus Pak

For HP-UX 11i v1 and Later

Software Version: 4.70

Installation Guide

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1 GlancePlus Pak Components

Introduction

GlancePlus Pak combines the following products into one package:

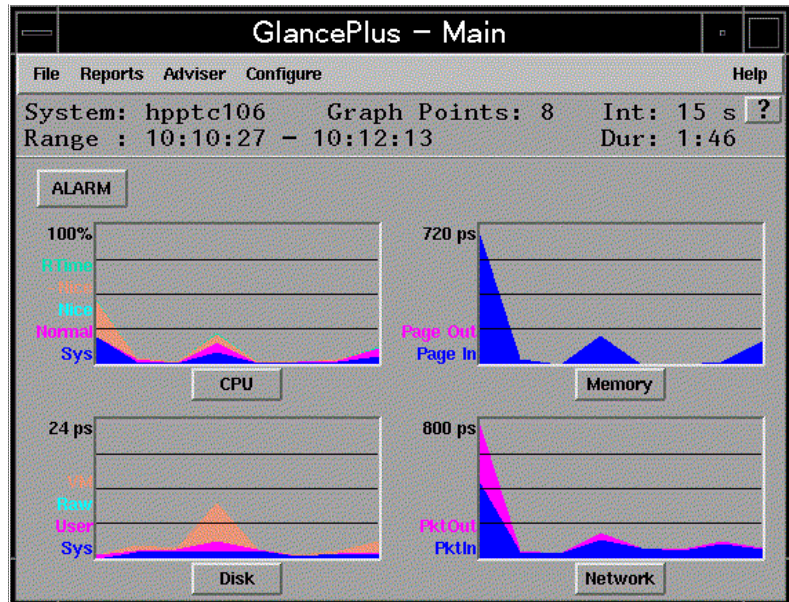
- [GlancePlus](#)
- [HP Performance Agent](#)

Together, these two products offer node-level management capabilities that keep you informed of a system's performance and availability. The following sections explain the specific ways that these products help you manage a GlancePlus Pak-installed system.

GlancePlus

GlancePlus is a powerful real-time system performance monitoring and diagnostic tool that provides immediate performance information about your system. It lets you easily examine system activities, identify and resolve performance bottlenecks, and tune your system for more efficient operation. GlancePlus helps you make sure that your users are more productive and your business applications run more smoothly.

Figure 1 GlancePlus Motif-mode interface



You can access GlancePlus in the following two ways: `gpm`, a Motif®-based graphical interface and `glance`, a character mode interface. Both modes provide the same set of performance data.

The Motif®-based GlancePlus interface, `gpm`, provides graphs that immediately draw your attention to system activity. It allows you to:

- View the system performance graphs in easily understood formats. You can also look at multiple windows to get a more complete view of a problem.

- View alarms and dynamic system performance graphs within an icon so you can efficiently keep an eye on your system's performance while attending to other tasks.
- Configure the product to best suit your needs and work style.
- Graphically display the resource use of the allocations groups set up by HP Process Resource Management software on HP 9000 systems.
- Learn how to use the product quickly. You can start using the product and interpreting performance data without having to search through volumes of manuals. The award-winning online help system includes hyperlinks and context sensitive features. You can click on a window (On-window) or an item (On-item) to display information that is relevant to the area of the product you are using.

The GlancePlus character-mode interface, `glance`, shows GlancePlus data as ASCII text and involves less system overhead, but offers fast transmission over serial lines. It allows you to:

- Remotely monitor the system or when an X-terminal is not available.
- Monitor the system when memory resources are critical.
- Monitor performance over serial data communications.
- View alerts to potential problems with real-time performance metric alarms.

HP Performance Agent

Performance Agent gathers a system's resource and performance data into log files. It time stamps the data, summarizes it, and uses it to detect alarm conditions. The data and alarm information available through Performance Agent can also be easily used by other products (such as HP Performance Manager for UNIX and HP Operations Manager for UNIX) for analysis and problem detection.

Using Performance Agent, you can determine trends in system activities, obtain information that enables you to balance workloads and accurately plan for future system upgrades. Performance Agent also allows you to integrate your system into an Operations Manager- or HP Performance Manager-based framework for centralized management of your distributed environment.

Performance Agent can gather data on measured end-to-end response times for instrumented transactions as they are executed within the system. Using its data source integration (DSI) technology, you can configure Performance Agent to collect data from sources external to the system. You can integrate Performance Agent data into other products for analysis, problem detection, and alarming.

Specifically, Performance Agent lets you:

- Characterize the workloads in the environment and analyze resource use, allowing you to more effectively balance the system workloads.
- Perform trend analyses based on historical data to isolate and identify bottlenecks.
- Perform service-level management based on transaction response time and respond to error conditions.

2 Licensing

Introduction

This chapter briefly discusses the GlancePlus Pak licensing agreement. Please refer to the licensing terms and conditions for a more complete description of the licensing conditions.

GlancePlus Pak Licensing Agreement

GlancePlus Pak is licensed to be installed and used on one system only.

3 Installation Requirements

Introduction

Before installing GlancePlus Pak, make sure that your system meets the minimum requirements for:

- Hardware
- Software

Hardware

System Requirements

- HP 9000 and Integrity Servers and HP Workstations
- 32 MB RAM, 64 MB virtual memory

Display Requirements

The following is required for running the GlancePlus Motif interface, `gpm` and character mode interface, `glance`:

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

Disk Space Requirements

- 100 MB in the `/opt/perf/` and `/opt/ov/` directories for first-time installations of GlancePlus and Performance Agent.
- 125 MB in the `/var/opt/perf/` and `/var/opt/ov/` directories for Performance Agent.

Software

- HP-UX 11i v1 (11.11) and later with X-Windows libraries X11R6 and Motif libraries 2.1
- System patch requirements: Refer to the product Release Notes in `/opt/perf/ReleaseNotes`.

4 Installing GlancePlus Pak

Introduction

Installing GlancePlus Pak addresses the following topics:

- Installation Instructions
- Results of Installation
- Removing GlancePlus Pak
- Removing ITO-SE that Remained from a Previous GlancePlus Pak Version

Installation Instructions

Complete the following procedure to install GlancePlus Pak from the GlancePlus Pak source media. The installation should complete in 30 minutes or less. If you have a factory-integrated system with the software already installed, skip the steps and refer [Chapter 5, Running the GlancePlus Pak Components](#).

- 1 Log on to the system as **root**.
- 2 If you have previously installed GlancePlus Pak, GlancePlus, or Performance Agent:
 - a Run `perfstat` to check for active performance tools:
`/opt/perf/bin/perfstat`
 - b Ask anyone currently running `glance` or `gpm` to exit these programs.
 - c Stop Performance Agent (if running), all ARM-instrumented applications, and all performance tool daemons by entering:
`/opt/perf/bin/mwa stop`
`/opt/perf/bin/midaemon -T`
`/opt/perf/bin/ttd -k`
Before you stop `ttd`, be sure to close any ARM-instrumented applications as well. Otherwise, results in collecting transaction data are unpredictable.
 - d Run `perfstat` again to make sure all the performance tools have been stopped.

If this is a new installation of GlancePlus Pak:

- e Verify you have a minimum of 100 MB of disk space in the directory `/opt/`. If you do not have this much space, create a new `<path>/perf` directory in a location where you do have the space. Symbolically link the directory to `/opt/perf/` and `/opt/ov/`.
- 3 Run `swinstall` as described here. Change the source to point to your installation media and select the GlancePlus Pak Software bundle.
`swinstall -s <hostname>:<depot_path> <product_bundle_ID>`

Results of Installation

The analysis phase of `swinstall` checks the following:

- Operating System version
- Disk space
- RAM and Swap space
- Kernel parameters

You can view the results in the logfile `/var/adm/sw/swagent.log`. You can check all or some components of the GlancePlus Pak by running `perfstat`.

Successful Installations

GlancePlus Pak Installation automatically updates files used by `/etc/profile` and lets users access the product and its manpages without manually updating their shell environment variables. You need to log in again for the changes in `/etc/profile/` to become active. Most executable files reside in `/opt/perf/bin/`. The manpages reside in `/opt/perf/man/`.

Incomplete Installations

If the installation does not complete successfully, the cause could be that system requirements are not being met or a performance tool (for example, Performance Agent) is still running when it should have been stopped. Check the `swinstall` log file `/var/adm/sw/swagent.log` for possible causes.

Removing GlancePlus Pak

To remove GlancePlus Pak, complete the following steps:

- 1 Log on as **root**.
- 2 Run `perfstat` to check for active performance tools. Enter:

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

If anyone is currently running `glance`, `gpm`, or any ARM-instrumented applications, ask them to exit these programs.

- 3 If Performance Agent is running, stop it and all performance tool daemons. Enter:

```
/opt/perf/bin/mwa stop  
/opt/perf/bin/midaemon -T  
/opt/perf/bin/ttd -k
```

If any ARM-instrumented applications are still running when you stop `ttd`, transaction data collection results are unpredictable.

- 4 Run `perfstat` again to make sure all the performance tools have been stopped.
- 5 Remove GlancePlus Pak. Enter:

```
swremove <file_ProductID>
```

If the system is an HP Operations for UNIX-managed node, the HP Operations Agent will not be removed.

Removing ITO-SE that Remained from a Previous GlancePlus Pak Version

You would only remove ITO-SE from GlancePlus Pak, if it remained on the machine from a previous GlancePlus Pak version (C.03.55 is the last version of GlancePlus Pak that contained ITO-SE).

To remove ITO-SE from GlancePlus Pak, follow the procedure below.

1 Log on as **root**.

2 Run `perfstat` to check if node is managed. Enter:

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

- If the system is an Operations Manager for UNIX managed node, the HP Operations (ITO) Agent will not be removed.
- If the system is running the OpenView Database Pak 2000 product, the script does not remove ITO-SE or the MeasureWare Integration Templates.

If you are updating GlancePlus Pak on an 11.0 system and the Database Pak is on the system, it relies on ITO-SE. Removing any of the ITO-SE components would remove reporting capabilities of the Database Pak Smart PlugIn.

3 Remove ITO-SE and MeasureWare Agent Integration Templates. Enter:

```
/opt/perf/bin/itose.remove
```



If you have updated the GlancePlus Pak to the June 2002 and later release, the functionality provided by ITO-SE and MeasureWare Integration templates within the GlancePlus Pak 2000 will no longer be supported by HP. If you had these two components on your system prior to updating to the June 2002 release, they will remain on your system. You can remove these components by following the procedures in [Removing ITO-SE that Remained from a Previous GlancePlus Pak Version](#) in Chapter 4.

5 Running the GlancePlus Pak Components

Introduction

After installing GlancePlus Pak, you can manually start the Performance Agent data gathering and alarm activation.

The sections that follow are sequenced according to how you should proceed.

- [Starting Performance Agent](#)
- [Starting GlancePlus](#)

Starting Performance Agent

When installation is complete, you can start Performance Agent. The Performance Agent scripts, `ovpa` and `mwa`, let you start all or some processes and stop or restart currently running processes.

If you are installing Performance Agent for the first time, the default data communication mode is HTTP. If you are upgrading Performance Agent, the previously used DCE data communication mode is enabled by default.

Depending on the data communication protocol you want to enable, you can use the `ovpa` or `mwa` script to start or stop Performance Agent.



It is recommended that you use the `ovpa` script to start Performance Agent and enable Performance Agent to use the HTTP data communication protocol. However, if you want to use the DCE data communication protocol, the `mwa` script is provided for backward compatibility.

The following table lists the different services that can be started for the different protocols.

Table 1 Performance Agent services started for different protocols.

Services started for HTTP protocol	Services started for DCE protocol
<code>scopeux</code>	<code>scopeux</code>
<code>coda</code>	<code>coda</code>
<code>perfalarm</code>	<code>perfalarm</code>
<code>midaemon</code>	<code>midaemon</code>
<code>ttd</code>	<code>ttd</code>
<code>ovc (BBC 5)</code>	<code>ovc (BBC 5)</code>
<code>ovbbccb (BBC 5)</code>	<code>ovbbccb (BBC 5)</code>
	<code>perflbd</code>
	<code>rep_server</code>
	<code>alarmgen (if perfalarm is not present)</code>



The `perflbd`, `rep_server`, and `alarmgen` processes are used for DCE communication

Before you start Performance Agent, enter the following command to check if any processes is running:

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

Using the `ovpa` script

To start Performance Agent and its processes using `ovpa`:

- 1 Log in as user `root`.
- 2 Type: `/opt/perf/bin/ovpa start`

The `ovpa start` script starts Performance Agent and all its processes, including the `scopeux` (data collector), `midaemon` (measurement interface daemon), `ttd` (transaction tracking daemon), `coda`, `ovc`, `ovbbccb`, and the alarm generator. As the script executes, the status of the processes that are started is displayed on the screen.

You can stop Performance Agent processes while they are running and restart them using the `ovpa` script and appropriate options.

- `ovpa stop` stops all Performance Agent processes except `ttd` (the transaction tracking daemon), `ovc`, and `ovbbccb`. `ttd` should always be running. If HP Operations agent is running on the system, `ovpa stop` will not stop the `coda` daemon.



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

- `ovpa restart server` causes `coda` to stop and then start, temporarily disabling alarming and access for clients such as HP Performance Manager, and rereads the `datasources` file. It also stops and then restarts the `perfalarm` processes and rereads the `alarmdef` file.
- `ovpa restart` causes `scopeux` and the server processes to temporarily stop and then start. It reads the `parm` file as well as forces the transaction daemon `ttd` to reread its configuration file `ttd.conf`.

- `ovpa restart` alarm causes the alarm generator process to reread the `alarmdef` file so that if you have made changes to the file, the new alarm definitions will take effect without restarting all Performance Agent processes. This action does not disrupt other processes.

Using the `mwa` script

To start Performance Agent and its processes using `mwa`:

- 1 Log in as **root**.
- 2 Start Performance Agent and its processes by entering:

```
/opt/perf/bin/mwa start
```

The `mwa start` script starts Performance Agent and all its processes, including `scopeux` (data collector), `midaemon` (measurement interface daemon), `tttd` (transaction tracking daemon), `coda`, `ovc`, `ovbbccb`, `perflbd`, `rep_server`, and the alarm generator. As the script executes, the names of some of the processes that are running and the files that are in use are displayed.

You can stop Performance Agent processes while they are running and restart them using the `mwa` script and its appropriate options.

- `mwa stop` stops all Performance Agent processes except `tttd` (transaction tracking daemon), `ovc`, and `ovbbccb`. `tttd` should always be left running. `mwa stop` does not stop the `coda` daemon if other products are using `coda`.
- Performance Agent can be reinitialized using the `mwa restart` option. Changes to configuration files will take effect on your system only if the processes are restarted.
- `mwa restart server` restarts the `coda` daemon and the repository servers, temporarily disabling alarming and access for clients such as HP Performance Manager, and rereads the `perflbd.rc` file. It also stops and starts the alarm generator processes and rereads the `alarmdef` file. The HTTP based alarm generator, `perfalarm`, is enabled by default¹.

1. To enable the DCE based alarm generator, `alarmgen`, stop Performance Agent, rename the `perfalarm` executable to `perfalarm.old`, and restart Performance Agent using the `mwa` script.

- `mwa restart` restarts the server processes and all the daemons including `coda`, `scopeux` and the transaction daemon `ttd`. It rereads the `parm` file and the `ttd.conf` transaction configuration file.



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

- `mwa restart alarm` cause the alarm generator processes to restart and reread the `alarmdef` file. This action does not disrupt any other processes.

For more information, refer to *HP Performance Agent for HP-UX Installation and Configuration Guide*.

To customize the `parm` file to suit the system use, refer to Chapter 2, Managing Data Collection, of the *HP Performance Agent for Unix, User's Manual*. To customize alarm definitions, refer to Chapter 7, Performance Alarms, of the *HP Performance Agent for Unix User's Manual*.

Starting GlancePlus

Before you can run the Motif interface of GlancePlus, set the `DISPLAY` variable on your workstation. To do this, run one of the following commands, depending on your system:

Korn Shell: `export DISPLAY=<workstation_ID>:0.0`

C-Shell: `setenv DISPLAY <workstation_ID>:0.0`

Bourne Shell: `DISPLAY=<workstation_ID>:0.0`

where `<workstation_ID>` is your workstation name. `xhost` must also be set for the display to be accessible. See the `xhost` manpage for more information.

To start GlancePlus from the command line:

- 1 Log on to the system where GlancePlus is installed.
- 2 To start GlancePlus in the:
 - Motif interface, type: **gpm**
 - Character mode interface, type: **glance**

6 Documentation

Introduction

In addition to printed manuals for its integrated products, GlancePlus Pak also includes:

- [Printable Files](#)
- [Release Notes](#)
- [Documentation on the Web](#)

Printable Files

The printable files are in two different formats: Adobe Acrobat“ (*.pdf) and ASCII text file. The printable files are installed in the following directories:

`/opt/perf/paperdocs/gpak/C/` – for GlancePlus Pak

`/opt/perf/paperdocs/ovpa/C/` – for HP Performance Agent

`/opt/perf/paperdocs/gp/C/` – for GlancePlus

Release Notes

HP GlancePlus Pak for HP-UX Release Notes are available in the following directory:

`/opt/perf/ReleaseNotes/`

Refer to the *HP GlancePlus Pak for HP-UX Release Notes* as well as the *HP Performance Agent for HP-UX Installation & Configuration Guide* and the *GlancePlus Installation Guide* for more information about documentation.

Documentation on the Web

You can view, download, and print the Adobe Acrobat format (*.pdf) documents from the HP Software Manuals web site at:

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

Select **GlancePlus Pak** from the product list box, select the release version, select the OS, and select the manual title. Click [**Open**] to view the document online, or click [**Download**] to place the file on your computer.

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