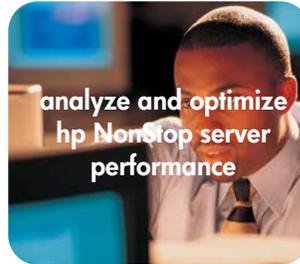




hp Guardian  
performance analyzer  
software



a product description  
from hp

### features at a glance

- Rapid analysis of performance data
- Quick index of server performance
- Comprehensive performance reports
- Performance-analysis commentaries
- Recommendations for server tuning
- Prediction of the impact of recommendations
- Generation of command files for recommended changes

Optimizing the performance of HP NonStop™ servers, HP Guardian Performance Analyzer (GPA) software analyzes performance data, makes recommendations, and helps implement those recommendations to balance resources for a single server or for several servers in a network. GPA software supplies operations managers with vital information and saves performance specialists time and effort.

After summarizing and analyzing server performance data, GPA software reports the results in easy-to-read formats, moving from high-level summary information to detailed specific performance parameters. GPA software makes recommendations on how to better balance a server's performance and predicts the improvements you can expect to achieve by making the adjustments. Its failure analysis indicates how well a server would continue to function if a processor were to fail.

For a better understanding of the total performance picture, GPA software also gives you a textual commentary on the analysis, explaining the performance issues involved. The product not only provides analyses and recommendations, but also gives you a means to implement those recommendations. It automatically generates many of the command files needed to optimize the server, as well as files to back out the recommended changes if desired. Because GPA software performs analyses rapidly, you can monitor server efficiency regularly and make adjustments before problems arise.

### rapid analysis of performance data

The GPA product uses HP Measure performance measurement software to collect data for its analyses. This lets you regularly monitor and gather data on all NonStop servers in your network.

GPA software can run an analysis without significant impact on server performance, even during peak periods. This makes it possible to implement a regular program of performance analysis, so you can spot problems early or even predict them instead of waiting for them to happen.

## **quick index of server performance**

GPA software gives managers a high-level tool for checking the performance of each server in the network. A server-performance score provides an overall performance rating, as well as a rating for each major performance category. It also shows you to what extent the existing capacity of the server is being used. The report even indicates how well the server would perform if any processors were to fail. When a rating is poor, you can examine the global performance indicators to determine what conditions are adversely affecting processing.

## **comprehensive performance reports**

Detailed charts follow the summary, reporting on performance parameters for the three major components of the server: processors, disk volumes, and cache. The tabular format is easily customized. The report also includes a diagram that correlates utilization and capacity information with the server's physical configuration. With this comprehensive report, performance specialists can readily pinpoint problems and their causes.

## **performance-analysis commentaries**

Based on the analysis, the report includes a clear text explanation of overall server health and describes the various performance issues involved. It also indicates what resources are needed to support fault tolerance. You can edit the text as desired to tailor the report to your needs.

## **recommendations for server tuning**

Having analyzed the current performance of the server, GPA software offers recommendations on how to balance the server optimally. It might, for example, recommend moving primary disk I/O paths, changing disk cache allocations, and redistributing processes.

## **prediction of the impact of recommendations**

Because the analysis program is a table-driven model, GPA software simulates the anticipated performance resulting from its recommended changes. It can also make several predictions in a single pass, which greatly reduces the time needed to tune your server. For easy comparison, GPA software presents its predicted performance improvements in the same format used in the current server reports.

## generation of command files for recommended changes

To help you save time and reduce the chance of error in implementing the recommendations, GPA software generates two OBEY files containing peripheral utility program (PUP) commands to

- Redistribute primary disk processes among processors and reallocate the optimal number of disk cache blocks, balancing processor and disk I/O loads
- Back out the implemented changes, returning the server to its original settings

## specifications

hardware	Any NonStop server Maximum number of processors: 16
software	NonStop Kernel operating system, any supported software release, C30.09 or later Enform query language and report formatter Measure system performance measurement software

## ordering information

<i>product ID</i>	<i>description</i>
6942	Guardian Performance Analyzer software

For more information, go to [www.hp.com/go/nonstop](http://www.hp.com/go/nonstop).

July 2002, first published 1994, 1999. All product names mentioned herein may be trademarks of their respective companies. HP shall not be liable for technical or editorial errors or omissions contained herein. The information is subject to change without notice. The warranties for HP products are set forth in the express limited warranty statements accompanying such products. Nothing herein should be construed as constituting an additional warranty.

02-0392

©2002 Hewlett-Packard Company

