hp data sheet

hp performance management bundle for NonStop servers

The HP Performance Management Bundle for NonStop servers is a suite of integrated operations management software products that puts you in control.

features at a glance

- Efficient data collection
- Resource monitoring
- Performance tuning
- Performance database collection and analysis
- Workstation-based open-performance database
- Powerful reporting and graphical views
- Automated in-depth performance audits
- Disk analysis
- Performance analysis
- Pathway management

The management of HP NonStop servers is an important component of application availability. Poor system tuning not only wastes resources but can also lead to system downtime. To assure maximum system performance and availability, operations management functions include a wide variety of performance monitoring and tuning tasks. These tasks are automated and simplified by specialized HP performance products. The HP Performance Management Bundle for NonStop servers is a suite of integrated operations management software products that puts you in control. The suite includes

- HP Measure, powerful software for measuring server performance
- HP ViewSys, real-time system resource monitoring
- HP Guardian Performance Analyzer, a server-tuning tool
- HP Tandem Performance Data Collector, powerful software for collecting and storing performance data
- HP Open Database, a powerful performance database
- HP Data Browser, a performance data review and reporting tool
- HP Insight, expert analysis and audits of complex performance problems
- HP Disk Prospector, a disk usage and activity review tool
- HP System Performance Analyzer, a performance analysis tool
- HP Pathway View, a Pathway management tool

Implementation of these software products provides proactive system management, improved response time, and assurance of continuous operations for your NonStop server.

Measure software

Measure software provides services to collect and examine the statistics needed to optimize the performance of online transaction processing (OLTP) applications for your NonStop servers. With Measure software, you can gather information from applications as well as servers and network components. This software can be run continuously with low server overhead.

Using the data collected by Measure software, you can tune your server to maximize your current investment in hardware and software. You can detect bottlenecks and unbalanced workloads. Measure data also yields information for sizing the resources needed for new applications. In addition, Measure software provides information for capacity planning, so future needs can be addressed proactively.

Measure software's programmatic interface gives you access to a set of data collection services for building high-level performance tools for such activities as capacity planning, resource accounting, and load control.

Key features of Measure software include

- Coordination of performance data collection functions
- Continuous measurements of performance
- Powerful and easy-to-use collection capabilities
- Flexible data examination

ViewSys software

ViewSys software is an interactive online monitoring program that allows you to view system resource usage on a running system. You can select from multiple screens to display the usage of either resources across all processors in a system or all resources within a set of processors. Resources monitored include CPU usage, page fault, disk I/O, and link control blocks (LCBs).

Key features of ViewSys software include

- Online resource monitoring for local or remote systems
- Individual or multiple CPUs and system resources

Guardian performance analyzer software

Optimizing the performance of NonStop servers, Guardian Performance Analyzer (GPA) software analyzes performance data, makes recommendations, and helps implement those recommendations to balance server resources. 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 and predicts the performance 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 a textual commentary on the analysis, explaining the performance issues involved.

GPA software not only provides analysis 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 analysis rapidly, you can monitor server efficiency regularly and make adjustments before problems arise.

Key features of GPA software include

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

Tandem performance data collector software

Tandem Performance Data Collector (TPDC) software provides an efficient, cost-effective way to collect and store performance information generated by NonStop servers.

TPDC software gathers data from the NonStop operating system, the file system, and Measure software. As the single source for collecting performance data, TPDC software reduces the human and computer resources needed for a comprehensive analysis of your NonStop subsystems and applications.

After collecting the data, TPDC software organizes and stores it in a single file that is used for generating reports and for analysis by such client applications as GPA software.

The System Performance Analysis Using Measure component uses TPDC data to generate more than 80 reports to assist in analyzing your performance data.

Key features of TPDC software include

- Collection of all key performance data
- Access to performance data by client applications
- Comprehensive reporting capability
- Low system overhead

open database software

Open Database (ODB) is an ODBC-compliant SQL database implemented as a Microsoft® Access database residing on a Windows system–based workstation. ODB software contains detailed performance data collected on host systems from Measure, the file system, and the NonStop operating system by TPDC software. It supports both the latest HP ServerNet architecture and the Dynabus architecture. ODB includes the Performance Management Console, which provides an easy-to-use user interface.

Much more than a Measure database on a workstation, the ODB offering contains virtually all detailed Measure data, but it has been reorganized extensively, summarized, and cross-linked so it can be used effectively at many levels by performance experts and nonexperts alike. For instance, the ODB Process Table contains not only Measure process data but also extended summaries and information from non Measure sources, including process disk I/O, process-to-process traffic, device I/O activity, system process and process pair information, and much more. To obtain the same information from Measure software would require detailed knowledge of multiple Measure entities and extensive computation. Some information (such as process pairs) is not available from Measure software.

Key features of ODB software include

- Use of SQL and other powerful query tools
- True network performance database
- Self describing and extensible
- Open platform for performance applications

data browser software

Data Browser (DB) software shortens analysis time by helping you sort, view, and analyze raw data from the ODB product. Using DB software, you can easily navigate through ODB information, combine fields and performance entities into a single easy-to-understand view, find relationships between entities, apply multiple layers of filters to define new conditions, and automatically graph information in the data browser. You can also export DB data to comma-separated value (CSV) files, Microsoft Excel files, and Microsoft Word files for analysis or integration into presentations and reports.

Key features of DB software include

- Customizable views and filter options create new data sets
- Drill links performance information to related entities
- Graph Center shows data in graphical form

insight software

Insight software, in combination with ODB software, helps performance analysts quickly and easily identify current or potential system problems. Insight software shows the location and performance of key system components as easy-to-read graphs. System information is combined into integrated graphical displays that give analysts the information they need to assess the performance of their systems. Analysis features help users quickly and easily find performance anomalies related to poorly configured systems and stressed system components.

Key features of Insight software include

- Graphical representation of key system components and their performance
- Rapid completion of system performance audits
- Automated in-depth analysis of potential system problem areas

disk prospector software

Disk Prospector (DiskPro) software, in combination with ODB software, automates the laborious and time-consuming task of analyzing disk and file usage. DiskPro improves productivity and reduces cost of ownership by providing graphical analysis and reporting of NonStop system disk volumes and files.

DiskPro software enables the user to review disk and file usage and activity, produce graphs and reports, and perform what-if analysis. These functions are based on the ODB data for one or more collected samples. DiskPro software is able to open and view multiple samples simultaneously and perform all available functions in an interactive format.

Key features of DiskPro software include

- Disk analysis
- File analysis
- What-if analysis
- Graphing, reporting, and export functions

system performance analyzer software

System Performance Analyzer (SPA) contains internal logic and algorithms on how a properly configured system should behave. From this knowledge base, it analyzes your system metrics and grades different components of your system. Each component receives a score from 0 to 100, with 100 being the highest score. On the first screen, SPA shows its "report card" along with a general assessment of the system's health. The screen provides links to more detailed analysis, including the factors that contribute to the score shown on the report card.

Not only is SPA software capable of analyzing your current system performance, but it can also recommend specific actions that should be taken to make it better. This includes reassigning disks to different processors and increasing cache size for different components. SPA even predicts how your system would have behaved, had the recommended changes been in place when the metrics were collected.

SPA software is the only product that can estimate how your system would perform if you were to upgrade your processor model and/or increase memory size. It contains a list of systems currently marketed by HP and asks you to select a processor model and a memory size. SPA analyzes your collected metrics as if they were running in the newly selected environment. The results indicate what you could expect if your system were upgraded to the selected model.

Pathway View software

The Pathway environment on NonStop servers is the foundation of choice for thousands of system and application designers. Over the years, the community of users relying on Pathway to run and manage their business has grown steadily larger.

Today's Pathway environments are larger and more complex than ever. Managing Pathway's internal resources and monitoring their effect and distribution over system resources in general is essential. Proper analysis of Pathway environment performance requires collecting both general system metrics and internal Pathway metrics. These two sets of data must be compared, processed, and analyzed together before you can obtain a complete picture of Pathway and system activities. Pathway View software handles these tasks.

Pathway View allows you to monitor and record detailed Pathway transaction metrics for any user-specified Pathway environment for specific hours of the day at specific intervals and over a given period of days.

ordering information

product ID	description
SA30	Performance Management Bundle for NonStop servers host component
SA31V4	Performance Management Bundle for NonStop servers workstation component
9086	Measure software
SE11	ViewSys software
6942	Guardian Performance Analyzer (GPA) software
SJ42	Tandem Performance Data Collector (TPDC) software
SJ47V4	Open Database (ODB) software
SJ48V4	Data Browser (DB) software
SJ49V4	Insight software
SJ50V2	Disk Prospector (DiskPro) software
SJ37V1	System Performance Analyzer (SPA) software
SJ38V1	Pathway View software

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For more information, go to www.hp.com/go/nonstop.

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