

Precise™ for Storage: HDS

Application Performance Management for Hitachi Data Systems environments

Introduction

Precise for Storage: HDS provides a complete view of your application performance infrastructure by collecting performance metrics from Hitachi Data Systems Lightning 9900 V Series, Lightning 9900 Series, and Thunder 9200 storage systems and correlating this data with additional information collected by Precise for Oracle.

This holistic, “user-to-spindle” view lets you detect performance bottlenecks quickly and proactively, improve application performance, leverage infrastructure investment, and optimize scarce personnel resources. Precise for Storage: HDS is linked to Hitachi Freedom Storage systems via Hitachi HiCommand Device Manager using its application programming interfaces (APIs).

If, for example, Precise for Storage: HDS discovers a critical application waiting for I/O, it’s easy to look “upstream” to detect what caused the data request. And it’s just as easy to drill down into the storage system via HiCommand Device Manager to investigate how the storage devices handled that request.

Precise for Storage: HDS houses all the information it collects in a rich data store, the performance warehouse, that virtually eliminates the need to “re-create” problems. It uses low-overhead technology to capture performance information continuously, so you can quickly respond to a performance bottleneck. Over time, the performance warehouse provides the historical perspective necessary to facilitate long-term trending, analysis, and reporting.

Features

- Provides a correlated view of storage, database, applications, and operating performance metrics

- Links I/O requests with the specific action on the disk arrays
- Identifies and isolates the root cause of application I/O wait bottlenecks
- Provides actionable information and directs the user to solve the performance problem
- Saves historical collection for performance trending and capacity planning
- Incurs low overhead while gathering data and performing “what if” analysis

Benefits

- Become aware of problems before they affect the end user
- Optimize performance by bridging logical (data files) to physical (Hitachi Freedom Storage system)
- Expedite data retrieval by optimizing data placement in the Hitachi Freedom Storage system
- Distinguish between infrastructure components that work well and those that don’t
- Focus scarce IT resources on real issues rather than finger pointing and “blamestorming”
- Align tuning goals with the end-user experience
- Optimize RAID configurations to support Oracle

Discovering Precise for Storage

Precise for Storage: HDS fulfills two critical performance management functions in the Hitachi environment: monitoring and tuning, and viewing and correlating.

Monitoring and tuning

A technically unparalleled sampling method allows Precise for Storage: HDS to monitor database performance without imposing appreciable CPU overhead. As a result, it can gather information from business applications, the Oracle database, the

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operating system, and Hitachi Freedom Storage systems without affecting performance.



Figure 1 When Precise for Storage: HDS finds excessive I/O waits, it allows you effectively to drill down into Hitachi HiCommand.

Viewing and correlating

Because it spans the infrastructure, Precise for Storage: HDS can pinpoint the cause of a performance problem—wherever it exists in the environment and before it degrades performance. Precise for Storage: HDS provides a comprehensive performance management solution that eliminates the guesswork from and slashes the time to problem resolution compared with conventional monitoring and tuning. And it not only monitors the infrastructure, but it also provides a methodology to investigate anomalies and resolve problems. This can all be done safely through simulations without affecting production environments.

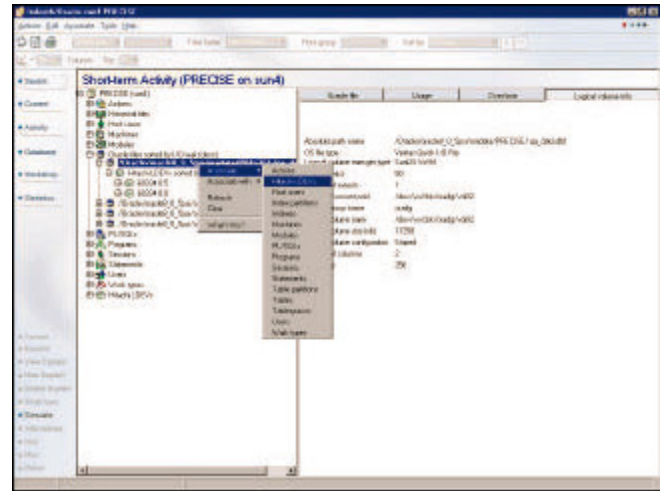


Figure 2 By mapping logical data files to physical storage devices, the user can optimize Oracle/HDS performance.

Discovering Precise

Precise for Storage: HDS helps businesses with Hitachi Freedom Storage environments surpass their performance needs—end to end, top to bottom—while boosting their competitive advantage and return on technology investments. The Precise solution adds a unique dimension to performance management—a holistic view of your business environment.

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Holistic transaction view

Tailored to enterprise web, application, database and middleware systems, Precise monitors each component to identify and track problems caused by, for example an inefficient SQL statement, to their origin. The core technology of Precise for Storage: HDS also enables Precise to continuously capture and correlate information from enterprise web, application, database, and middleware systems. It gets to the root of a performance problem, regardless of the cause—ERP applications, database parameters, user customizations or extensions, or the Hitachi system configuration. Precise enables problem isolation and root cause drill down to reduce mean time to repair. And by optimizing the way enterprise systems work with Lightning 9900 and Thunder 9200 storage, Precise maximize enterprise system performance and help you meet—and exceed—your business goals.

About Precise Software Solutions

Commitment, Focus, Experience

performance in complex, heterogeneous environments, assuring availability and business continuity. Precise offers a complete solution – from discovery through ongoing management – that allows our customers to focus on their core business. We offer the broadest platform support, in terms of enterprise application, operating system, database, and development environment coverage. Precise is the solution of choice for IT as an organization-wide standard for application management.

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