HITACHI
D A T A   S Y S T E M S

Don't **compromise**
availability to
gain performance.

HIGHLIGHTS

Increased productivity
through simplified data
management

Dynamic workload
balancing

An evolutionary step
toward true data
management automation

You make enough choices in life. System performance versus application availability shouldn't be one of them. With HS-DataTune, you don't have to settle for anything less than the best. Part of Hitachi Storage Management Solutions, the revolutionary HS-DataTune package consists of:

- HDS GRAPH-Track™†
- Hitachi Volume Relocation (HVR), a function of Hitachi Remote Copy††
- HDS Copy Migration Manager† licensed software
- Integration services from Hitachi Data Systems.

HS-DataTune lets you dynamically manage your HDS 7700 Scalable Array and, if necessary, move data nondisruptively. It doesn't matter if you have round-the-clock operations, multiple platforms sharing the same storage system, or limited software reporting capabilities. HS-DataTune makes sure you'll never have to sacrifice availability for performance.

The ultimate in performance monitoring.

The GRAPH-Track component of HS-DataTune delivers in-depth information quickly and easily. Running on a dedicated PC attached to the 7700's internal LAN, GRAPH-Track can support as many as eight 7700s, and allows you to analyze the status of all active components within the subsystem.

GRAPH-Track scrutinizes activity all the way to the logical device level, and reports the following:

- Channel microprocessor utilization
- Cache usage rate by function
  - Ratio of random, sequential, and read/write operations
  - Rate of random, sequential, and total I/O operations
  - Percent of write-pending data in cache
- Logical device utilization.

This data pinpoints potential bottlenecks, caused by changing workloads, that can have a negative impact on throughput, and lets you "fine tune" your 7700 for maximum benefit.

† HDS GRAPH-Track and HDS Copy Migration Manager are available under license. Availability varies from region to region. Please contact your HDS representative for further information.
†† Hitachi Remote Copy is available with an HDS service agreement.

Dynamic cache tuning at your fingertips.

GRAPH-Track highlights valuable cache usage information. Cache read/write and read-hit ratios are reported in real time. With this data, you can adjust your cache allocations and bus mode—either dynamically or in up to 10 scheduled time intervals—to accommodate changing workload priorities. For example, you can alter the bus mode from normal to sequential during the nightly/daily cycle in order to give higher priority to batch applications.

Easy, transparent, and fast!

The HVR component of HS-DataTune allows for the movement of data from one logical volume to another—within or between 7700 subsystems—nondisruptively. Used in conjunction with industry-standard software features, HVR lets you complete this logical volume move without interrupting access to mission-critical production data. Your applications continue to run smoothly as you move data in order to balance workloads and gain maximum throughput.

The choice is yours.

No restrictions. It's that simple. You can manage HS-DataTune with either MVS-based or PC-based software. The HS-DataTune package includes HDS Copy Migration Manager, a specialized licensed software tool created for the 7700. Running on a dedicated PC attached to the 7700's internal LAN, HDS Copy Migration Manager ensures seamless, easy-to-use subsystem management. For MVS-based software control, you can use the Peer-to-Peer Remote Copy TSO command set. With HS-DataTune, you choose the interface that works best for your environment.

HDS Professional Services puts your mind at ease.

HS-DataTune is more than the combination of 7700 hardware and software functions. It also includes a professional analysis, conducted by performance and capacity planning specialists, and on-site training and consulting. Our Professional Services team works with you to integrate HS-DataTune components into your unique environment and train your staff in the methodology behind HS-DataTune. This combination of hardware, software, and services pushes storage management to new levels, enhancing the productivity of your IT professionals.

Hitachi Data Systems— For computing as critical as your business.

Hitachi Storage Management Solutions are designed to address enterprise-wide business requirements. Performance and availability are key to your success. At HDS, we don't expect you to choose one over the other. HS-DataTune allows you to achieve optimum performance without compromising data availability. Like the other Hitachi Storage Management Solutions, HS-DataTune demonstrates HDS' commitment to meet—and exceed—customer needs. From the desktop to the glass house, you can count on Hitachi Data Systems to be there, helping you master your mission-critical storage management challenges.