

High Availability Solutions for MPE

SYSTEM CLUSTERING, REPLICATION AND
DISASTER RECOVERY FOR 24X7 DATA ACCESSIBILITY

- NetBase® Network File Access (NFA) clusters multiple systems to appear as a single system for load balancing
- NetBase® Shadowing provides replication of transactional data from one system to one or more remote systems for high availability, load balancing, and disaster recovery
- NetBase® integrates with Hewlett-Packard's AllBase Replication APIs to provide high availability and disaster recovery for AllBase databases
- AutoRPM™ centralizes software to reduce licensing costs
- NetBase® Statistics provides file access monitoring and "what if" scenario generation for fine tuning of clustered systems
- NBCopy™ facilitates file copying to remote systems without the need for NS 3000
- Quark+® compresses multiple file sets, including directory and user environment information for storage and/or transfer as a single file in a compressed format

The Importance of High Availability

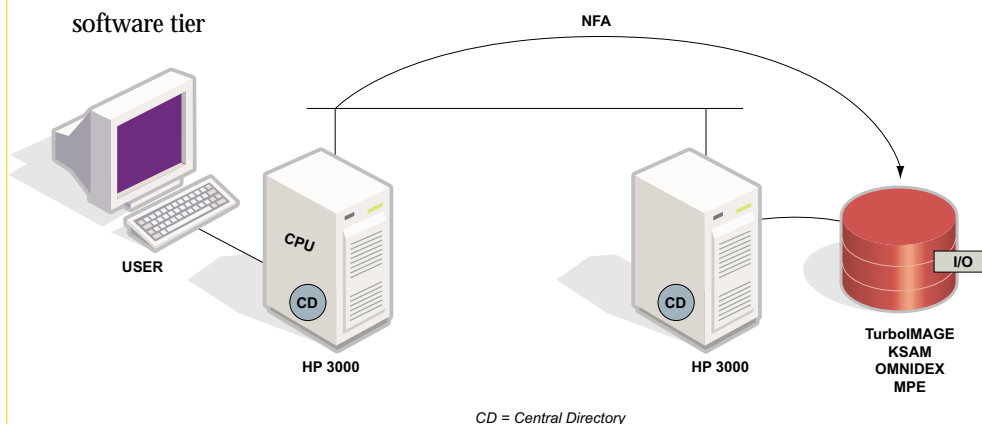
Today's businesses rely on current information to make informed decisions. Most computing environments are required to run 365 days a year, 24 hours a day. They depend on the practical application of computer systems to perform everyday business activities without interruption due to natural, technical, or human threats. When the workplace is impaired by any disruption, business functions grind to a halt, leaving the business unable to service its customers. Fault-resiliency, uninterrupted system uptime and continuous data availability in applications are IS goals in any corporation. In fact, the health of a business could depend on the availability of its data.

In addition to system, application, and data availability, Quest Software's High Availability Solutions for MPE enable disaster tolerance and shared system resources. These solutions create an open systems environment with legacy systems. Quest Software's High Availability Solutions for MPE enables real-time access to mission-critical data through application replication, clustering, data distribution, and disaster recovery.

Maximize Network Performance with NetBase® Network File Access

NetBase® Network File Access (NFA) maximizes networking performance by minimizing individual network transactions. NetBase NFA lets you spread applications across multiple machines in a cluster to isolate application usage and increase network throughput. NetBase NFA minimizes individual network transactions with NetBase cache, enabling cost-effective, horizontal systems growth and flexibility. In addition, NetBase NFA:

- Provides transparent access and control of applications on remote systems
- Provides cost-effective solutions for clustering systems in the same or lower software tier



NetBase NFA extends Hewlett-Packard's connectivity to thousands of users.

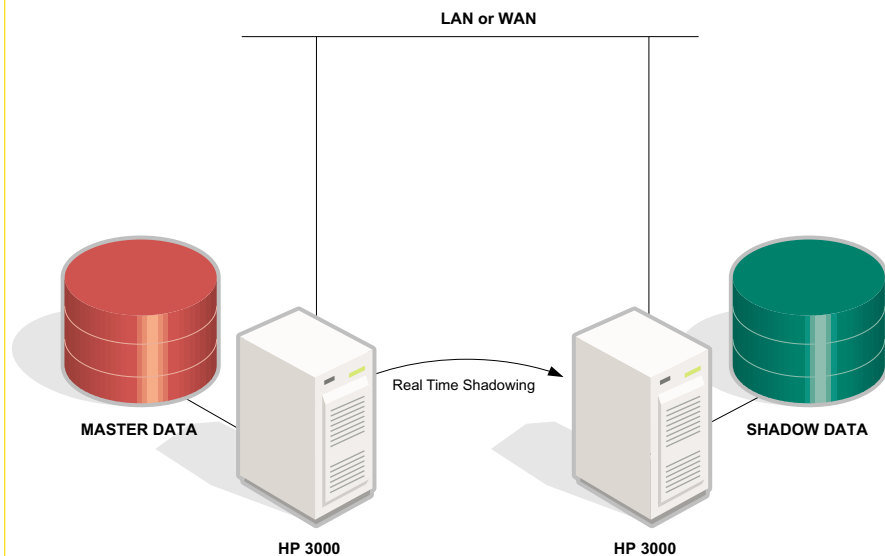
High Availability Solutions for MPE

NetBase Shadowing ensures the reliability of your production systems by:

- Increasing fault tolerance, providing resiliency to system and network failures, and ensuring immediate recovery after a failure
- Providing data backup capability on secondary systems anytime while users access production copies of file systems or databases
- Offloading query and reporting workloads to a secondary system so target data is always available
- Enabling rapid failover capability and eliminating the need for tape vaulting and offsite data protection

Increase Fault Tolerance with NetBase Shadowing

NetBase® Shadowing provides a critical software backbone for 24x7 data availability, forming an essential foundation for any corporate disaster recovery strategy for HP 3000 systems. NetBase Shadowing ensures continuous uptime by transparently replicating data in real time across the corporate wide area network (WAN) to one or more machines. It maintains secondary copies of TurboIMAGE databases, IMAGE/SQL, KSAM and MPE files. These exact copies can be used to implement disaster recovery, increase performance of data access, offload busy machines, provide 24x7 access to reference data, and automatically perform concurrent backups without downtime. It enables customers to balance loads between systems on their network, gaining optimal usage of every machine.



NetBase Shadowing provides 24x7 data availability and fault-resiliency for MPE over a wide area network.

Replicate AllBase™ RDBMS with AllBase Shadowing

This add-on module to NetBase works in concert with Hewlett-Packard's AllBase Replication product. AllBase Shadowing enables AllBase RDBMS to be replicated over a LAN or WAN to another HP 3000 system. AllBase Shadowing provides a fully functional replication engine to the HP 3000 platform, allowing all tables to be replicated by running read-only reports against the target data. Performing disaster recovery and workload balancing, AllBase Shadowing provides data protection in a high-availability environment.

Plan Successful Network Strategies with NetBase Statistics

NetBase Statistics provides comprehensive data to maximize system performance, specifying details at the process and user levels. Accurate records of network file access, process and network overhead, system location, and file access response times are essential to successful networking strategies. NetBase Statistics takes networking analysis to the final step, predicting resulting performance for proposed network changes and presenting the file access statistics in a clear and concise format.

The Scenario Generator takes the guesswork out of file placement, allowing a “what if” approach for modeling changes to file placement prior to making changes that can affect the environment.

NetBase Statistics capabilities include:

- Generating accurate records of network file access, process overhead and response times for development of successful networking strategies
- Providing information “at a glance” as to where system resources are being used, by which users and by which programs
- Allowing for “what if” modeling of network strategies in advance from data gathered using the NetBase Statistics Scenario Generator

Make Copies without Remote Sessions with NBCopy™

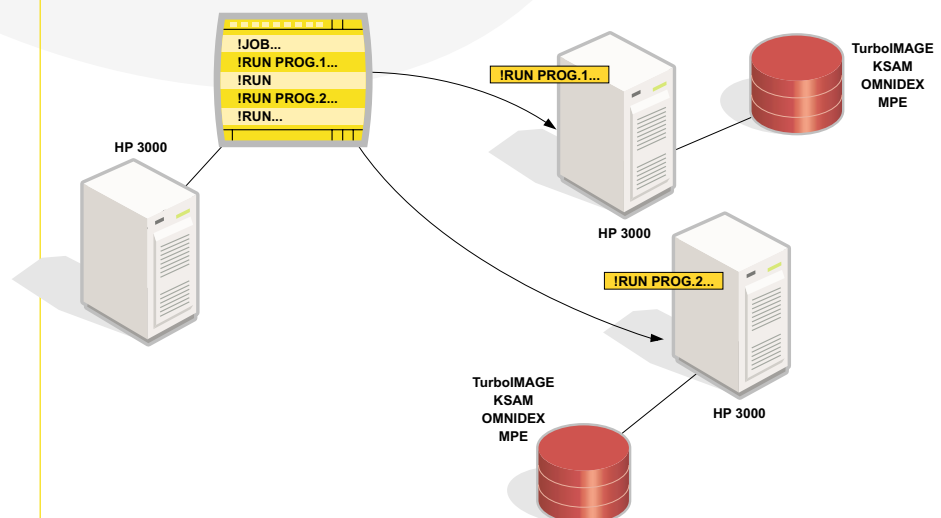
NBCopy enables you to make copies of many different types of files easily, making exact duplicates on the same or remote systems without the need for remote sessions. NBCopy has been optimized to perform without NS 3000 services, increasing your return on investment. NBCopy supports many different types of files, and offers several options for modifying the new copy during the copying process. Combined with Quark+, NBCopy delivers speedy, cost-efficient remote file distribution for HP 3000.

Compress Files Fast with Quark+®

Quark+® is a NetBase-supported archiving program built from the same features as the PK Zip program for PC systems. Quark+ compresses many files and stores them in a single, compressed-format file, leaving directory and account structures intact. It aids in timely remote resynchronization of data on a shadowed system and remote-system environment re-creation from the source system. Quark+ also distributes software at some locations, reducing licensing costs.

Reduce Software Licensing Costs with AutoRPM™

AutoRPM™ is a built-in interface from the NetBase central directory to remote process management (RPM), which is supported by Hewlett-Packard. AutoRPM grants system administrators the ability to automatically forward programs to run only on a given system on the network where software licenses exist. For example, system administrators may wish to use this feature to improve performance by assigning a program to run on the optimal system in the network and access data on another system, significantly reducing software licensing costs and improving system performance by spreading CPU utilization among several systems.



NetBase AutoRPM provides software license cost reduction while allowing full access to applications from any system in the network.

Summary

Fault-resiliency, uninterrupted system uptime and continuous data availability in applications are IS goals in any corporation. Quest Software's High Availability Solutions for MPE provide system, application, and data availability; disaster tolerance; shared system resources; and a horizontal growth strategy. These high availability solutions create an open systems environment with real-time access to mission-critical data through application replication, clustering, data distribution, and disaster recovery.

MPE Solutions Overview

Middleware	Output Management	High Availability
<ul style="list-style-type: none">• Data movement• Data migration• Data marts• Data warehousing• Data access• Direct interface• File mounts• Consolidated replication	<ul style="list-style-type: none">• Managing print files• Local printing• Network printing• Coexistence printing• Electronic report distribution• Data center automation• Report availability• Report warehousing	<ul style="list-style-type: none">• Disaster recovery• Replication• Clustering• File copying• Software distribution• Scenario generation• Workload balancing



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For more information on Quest Software's High Availability Solutions for MPE, please call 949.754.8000 or visit us at www.quest.com.

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