

The DG/UX® operating system is the industry-leading implementation of commercial UNIX provided for the AViiON® family of open enterprise servers. DG/UX software is the product of years of intensive focus on the needs of commercial applications running across a spectrum of industries from healthcare to government to manufacturing. The design and implementation of the DG/UX operating system has focused on the following customer requirements:

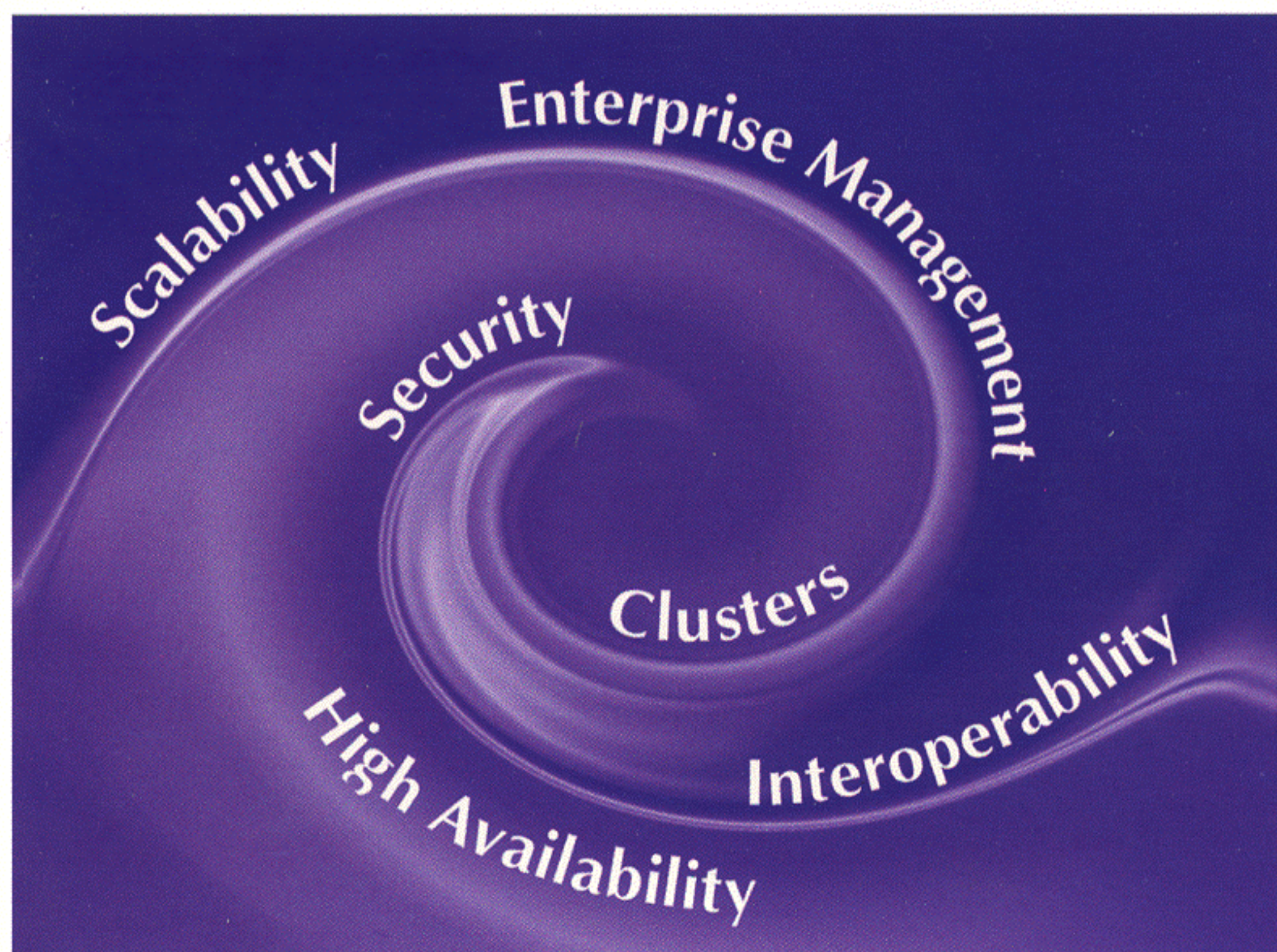
- Outstanding price/performance, allowing the full power of symmetric multiprocessing and ccNUMA to be deployed
- Unquestionable reliability and availability
- Excellent management of large amounts of information for storage and backup
- True adherence to standards to assure application portability and investment protection
- Enterprise-class systems management and administration
- Enterprise-class security features

DG/UX is an advanced implementation of the UNIX operating system that has been optimized for commercial computing. In addition, to help protect your investments, it adheres to international, national, and de facto industry standards. The incorporation of these standards provides independent software developers, value-added resellers, system integrators, original equipment manufacturers, distributors, and large and small businesses a state-of-the-art environment for business processing as well as for maximizing applications availability and portability. A broad range of layered horizontal and vertical software products from leading vendors is available on the DG/UX operating system.

Reliability, integrity, availability, ease-of-use, and productivity features are delivered in DG/UX to allow customers to concentrate on their business, not on their computer systems.

Benefits

- Superior implementation of the UNIX System V, Release 4 operating system
 - Designed with commercial server orientation for open enterprise computing
- ccNUMA and large memory support for improved scalability
 - Extends SMP scalability to 64 processors and beyond
 - Allows memory and I/O to scale along with the number of processors
 - Is application transparent
- The most value for your money with optimum investment protection
 - Source code application compatibility across AViiON product line architectures
 - Performance and scalability
 - Application-transparent symmetric multiprocessing and ccNUMA
 - Standards compliance ensures applications portability
 - Delivers advanced high-availability features
 - Interoperates easily in multi-vendor environments
 - Java support for portable application development and deployment
- Access to your applications and data when you need them with DG/UX high-availability features
 - Built-in fast file recovery with no applications changes
 - Three-way software disk mirroring for on-line backups
 - Support for CLARiiON® disk and tape array subsystems
 - Support for DG/UX Clusters™
 - Dynamic bad block disk remapping
 - On-line controller restart without system downtime
 - Applications-transparent routing of I/O through back-up LAN and disk controllers
- Enhanced storage management
 - Ability to meet commercial aspects of business storage needs such as large file systems
 - Virtual Disk Management allows modifications of disk configurations to transparently occur without interrupting the execution of applications
 - Legato Networker for unattended network-wide backup and recovery
- Easy to administer using DGEM (Data General Enterprise Management) platform, graphical desktop environment using NT, OpenView, and Data General-developed software to manage the DG/UX system



Benefits (continued)

- DG/UX Manager™
- NAVISPHERE™ Manager for AViiON Systems
- DG/UX CLARiiON Manager™
- DG/UX Graphical FileSystem Manager™
- DG/UX Cluster Manager™
- M3W Server Manager™
- Robust, extensible, cost-effective, enterprise-class, commercial information security
 - High Assurance Security provides confidence that features function correctly and as a cohesive whole, all working to enforce a single security policy
 - Replaces “superuser” with a highly configurable set of administrative roles which may be limited to performing only administrative duties; access to enterprise data can be restricted or eliminated
 - Actively prevents the introduction of computer viruses; not limited to recognition of known viruses
 - Industry-leading approach to management of users accounts enables the customer to control all aspects of how and when users access the system and what they can do once they are on
 - Users and administrators can be restricted to running only officially installed software
 - Principle of least privilege; fine-grained capability mechanism allows assignment of “just enough” privileges for a job
 - Configurable to adapt to the way a site works

DG/UX Features

- Standards Compliance
 - USL System V Release 4 and Release 3
 - Berkeley Software Distribution 4.3
 - IEEE POSIX 1003.1 and FIPS 151-1
 - ANSI C, TCP/IP, ONC/NFSv3, X-Windows Version 11 Release 5, and OSF/Motif 1.2
 - Java server support
 - Clustering options: QuickClusters,™ Failover Clusters, and Disaster Recovery Clusters
- Data Integrity and High Availability
 - Highly available operation with: intelligent selective-fsck based File System; Fast Recovery File System on a per file system basis; and auto-reboot after power and software failures
 - Rapid recovery of user community and critical system resources by reloading and restarting sync and async controllers after a controller has failed without bringing the system down
 - On-line backups using three-way software disk mirroring
 - With CLARiiON systems, disk failures are transparent to applications. CLARiiON products allow on-line replacement of a failed component, including disks and on-line re-build of data, without the need to take the application down
 - Disaster recovery clusters
 - Multi-ported disk array configurations enable clustered AViiON servers to support on-line transfer of control from one system to another if the initial system goes off-line

- Very large file systems span multiple physical disks via a virtual disk architecture; file systems may be resized without back-up/restore operations, transparent to applications execution
- Very large files (2 TB)
- Dynamic bad block disk remapping
- Redundant and self-identifying system data structures
- Unbuffered I/O support and write-verify options
- DG/UX Clusters, in combination with a relational database management system, allows AViiON systems to provide a shared database service across multiple AViiON systems, resulting in improved applications availability and performance
- Redirection of LAN and disk I/O to back-up controllers upon failure of primary controller; transparent to application execution
- Enhanced Diagnostics Capabilities
 - Error logging for disk, tape, and memory
 - AV/AlertSM machine-initiated diagnostic call-out service assists preemptive repair scheduling
- Ease of Use
 - A set of graphical management tools: M3W Server Manager, DG/UX Manager, NAVISPHERE Manager for AViiON Systems, DG/UX CLARiiON Manager, DG/UX Graphical File System Manager, and DG/UX Cluster Manager
 - CD-ROM documentation with Hypertext search
- Performance
 - Intelligent scheduler tuned for interactive network server, database, and transaction-oriented applications with optional round-robin or FIFO schedulers available
 - Multi-threaded, re-entrant, preemptible kernel with fully concurrent I/O optimized for symmetric multiprocessing with fine-grain locking
 - Software disk striping, memory-mounted file systems
 - POSIX THREADS interface for optimized system performance
 - Fibre Channel for unparalleled performance, flexibility, and availability
 - Class Scheduling Facility (CSF) for workload optimization
- Innovative kernel technology
 - Redesigned and re-implemented UNIX kernel delivers scalability, ease of maintenance, extensibility, reliability, security, and applications-transparent symmetric multiprocessing across the AViiON family of servers
- Standard and optional security features
 - Password encryption and aging
 - Virus protection
 - Trusted networking
 - Fine-grained audit controls
 - High-assurance Session Monitor
 - Extensible authentication (e.g., smart cards)
 - Extensible security policy
 - Powerful and flexible access control policies (MAC, DAC, and CAC)
 - Centralized authentication service with SecurID
 - Standard access control with POSIX ACLs

 Data General

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