EMC SYMMETRIX VMAX 20K STORAGE SYSTEM

The EMC® Virtual Matrix Architecture™ is a new way to build storage systems that transcends the physical constraints of all existing architectures by scaling system resources through common building blocks called EMC® Symmetrix® VMAX® 20K engines.

A single VMAX 20K engine provides the complete foundation for a high-availability Symmetrix VMAX 20K system. Each VMAX 20K engine contains two Symmetrix VMAX 20K directors and redundant interfaces to the EMC Virtual Matrix™ interconnect. Each Symmetrix VMAX 20K director consolidates front-end, global memory, and back-end functions, enabling direct memory access to data for optimized I/O operations.

VMAX 20K engines are interconnected via a set of multiple active fabrics that provides scalable performance and high availability. VMAX 20K engines can be added non-disruptively to provide linear scale-out of Symmetrix system resources. The Virtual Matrix is architected to scale to dozens of engines, geographically dispersed throughout a data center, delivering unprecedented scale of infrastructure services under a single point of management.

VMAX 20K ENGINE MAXIMUM SPECIFICATIONS

- Four Quad-core 2.33 GHz Intel® Xeon® processors
- Up to 128 GB of memory
- Virtual Matrix bandwidth: 24 GB/s

VMAX 20K MAXIMUM SYSTEM SPECIFICATIONS

- Eight VMAX 20K engines
- 1 TB of memory
- Virtual Matrix bandwidth: 192 GB/s

VMAX 20K INTERCONNECT

- Industry-standard RapidIO® fabric (Virtual Matrix Architecture is extensible to other standard interconnects.)

CONNECTIVITY

Symmetrix VMAX 20K systems are available in configurations supporting up to eight VMAX 20K engines with a maximum of 128 front-end ports. Optimized hardware logic and data protection encoding ensures end-to-end data integrity with automated channel failover for a maximum availability and load balancing. Symmetrix VMAX 20K systems support all popular hardware and operating system platforms, storage area networks (SANs), and high-availability cluster environments. IPv6, IPsec, and compression support are available with 1 Gb/s Ethernet ports. IPv6 support is available with 10 Gb/s Ethernet.

PROTOCOL	USABLE SYSTEM PORTS
8 Gb/s Fibre Channel Host/ SAN Ports	4-128 per array, 4-16 ports per engine
8 Gb/s Fibre Channel Remote Replication Ports	2-32 per array, 2-4 ports per engine
8 Gb/s FICON Host Ports	4-64 per array, 4-8 ports per engine
4 Gb/s Fibre Channel Host/SAN Ports	4-128 per array, 4-16 ports per engine
4 Gb/s Fibre Channel Remote Replication Ports	2-32 per array, 2-4 ports per engine
4 Gb/s FICON Host Ports	4-64 per array, 4-8 ports per VMAX engine
10 Gb/s & 1 Gb/s Ethernet Remote Replication Ports	2-32 ports per array, 2-4 ports per engine
10 Gb/s FCoE Host Ports10	4-64 per array, 4-8 ports per engine
10 Gb/s iSCSI Host Ports10	4-64 ports per array, 4-8 ports engine
1 Gb/s GigE Remote Replication Ports	2-32 ports per array, 2-4 ports per engine
1 Gb/s iSCSI Ports	4-64 per array, 4-8 ports per engine

Configuration And Resource Guide For Symmetrix Vmax

RD Boyd

Configuration And Resource Guide For Symmetrix Vmax:

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