

STORAGE CONFIGURATIONS

DATABASE I/O ACCELERATOR

THE SOLUTION

Database I/O typically requires a large number of small random I/O transactions, which can result in spinning disks (HDD) failing to deliver enough I/O capability. MPSTOR's I/O Accelerator uses Solid State Disks (SSD) to deliver high I/O to Fibre Channel or SAS hosts. A secondary issue is I/O bandwidth contention across volumes, which MPStackware solves with a volume I/O rate configuration that guarantees a max I/O rate per volume.

The I/O accelerator is a storage appliance based on the MPStackware data storage management software and an off-the-shelf AIC 2U, 24-bay, SFF Storage Server system. It enables flexible and easy deployment of SSD based disk arrays to multiple servers and hundreds of users over existing FC infrastructure. The MPStackware management software, with its intuitive web-based GUI, provides for easy set up and administration.

HARDWARE CONFIGURATION

Based on the AIC 2U 24bay SFF Storage Server system, with the LSI 3G/6G Internal SAS Controllers supports up to 24 Solid State Disks and FC 4G for host connections, for increased I/O performance.



HARDWARE CONFIGURATION

AIC SB221-GE, a 2U 24bay SFF Storage Server Barebone enclosure

Dual LGA1366 sockets to support two(2) Dual-Core/Quad Core/6-Core Intel® Xeon® processors 5500/5600 series (Nehalem/Westmere)

Twelve(12) DIMM slots support up to 192 GB of DDR3 800/1066/1333 MHz Registered ECC memory (recommended) / Unbuffered ECC SDRAM

3xLSISAS3081E Internal HBA
1xLSIFC for Host connection
24xSSD Disks

SOFTWARE

MPSTACKWARE V2.01

Intuitive, easy-to-use and deploy, in 5 easy steps.

Web-based GUI for easy setup and management of your storage.

KEY FEATURES

- SAS/FC iSCSI/CIFs Support
- SAS/SATA and SSD Disks
- Volume Virtualisation, Host and Port Volume Mapping, Raid Levels 0,1,5 and 6, Traffic Analytics and comprehensive support features.
- Logical Volume mapping /masking
- Thin Provisioning & Snapshot
- Bandwidth and I/O throttle per Logical Volume
- InfiniBand 10G/40G

SPECIFIED PERFORMANCE

Up to 70K I/Os per FC port

APPLICATIONS & ADVANTAGES

TARGET APPLICATIONS

- Oracle Database Accelerator
- Cloud database backup
- Video Editing application
- OnLine Transaction oriented applications
- Sequential applications: copying, backup, video

ADVANTAGES

- High performance
- Low cost
- Turnkey solution
- Future proof