JazzStore and tekdxFile FAQ

File System

- One file system (i.e., disk/RAID) per tekDX server node.
- Each server supports multiple clients and up to 256 open files.

FAT32 Implementation

- The file system is compatible with Windows 2000. Interoperability with other Windows versions have not yet been tested.
- Supports long filenames and file sizes up to 4 GB.
- tekdxFile has its own fdisk/format functions that support one partition up to 384 GB per device (tekDX server). Windows can only format partitions up to 32 GB (although it can mount file systems of any size).
- Read/write transfer sizes should be a multiple of the sector size (512 bytes), for best performance.
- The real-time File Allocation Table (FAT) is updated in memory, not directly to the disk. The disk may be updated via 2 different methods as outlined below. It should be noted that synchronizing to disk will affect throughput. The greater the frequency of the updates the greater the throughput reduction.
    1. The user may invoke tekdxFileSync() from the client. This will flush the FAT to disk.
    2. The server may be set to periodically flush the FAT to disk.

Performance

The real-time FAT32 file system driver does not impose any extra overhead to the Fibre Channel throughput rates. That is, the FAT32 driver is capable of sequential throughput rates equivalent to the raw sequential access rates of a given device.

Hardware Support

FC22A-PMC-CC 1-Gigabit Fibre Channel PMC with two HSSDC ports.
FC22A-PMC-CF 1-Gigabit Fibre Channel PMC HBA with one HSSDC port and one fiber port.
FC22A-PMC-FF 1-Gigabit Fibre Channel PMC HBA with two fiber ports.
FC23-PMC-1C SBS 2-Gigabit Fibre Channel PMC HBA with one HSSDC port.
FC23-PMC-1F SBS 2-Gigabit Fibre Channel PMC HBA with one fiber port.

Any Fibre Channel SCSI-FCP RAID or disk.

TEK Microsystems, Inc
2 Elizabeth Drive
Chelmsford, MA 01824-4112
P: 978-244-9200
F. 978-244-1078
U: www.tekmicro.com
F. info@tekmicro.com