

# A sampling of clustered storage vendors

<i>Vendor/product</i>	<i>Description</i>	<i>Comment</i>
<b>3PAR Inc.</b> InServ Storage Servers	Clustered block-level access	Supports thin provisioning, dynamic reconfiguration of the type of drives and RAID levels used by volumes
<b>BlueArc Corp.</b> Titan	Clustered NAS	File serving for NFS, Windows, CIFS and iSCSI block data; OEM'd by Hitachi Data Systems; moving from high end into midmarket
<b>Dell EqualLogic Inc.</b> PS Series	iSCSI SANs	Focused on small- and medium-sized business market
<b>EMC Corp.</b> Celerra Multi-Path File System	Clustered NAS	Supports iSCSI, Fibre Channel
<b>Exanet Inc.</b> ExaStore	Clustered NAS	Latest releases add on-demand provisioning, continuous data protection and redesigned user interface
<b>Hewlett-Packard (HP) Co.</b> PolyServe	Clustered NAS file system	Will still run on industry-standard servers, but will be optimized for HP storage hardware and management software
<b>Hifn Inc.</b> Swarm	Clustered iSCSI storage appliances optimized to work with VMware's clustered file system for virtualized environments	Supports iSCSI, CIFS, NFS
<b>Ibrix Inc.</b> FusionFS	Parallel file system and scalable volume	FusionFS supports NFS and CIFS protocols, as well as the Ibrix FusionClient (a driver Ibrix says delivers higher write performance, tighter consistency and balanced resource utilization)
<b>Ibrix</b> FusionHA	High-availability clustering with active-active, server-to-server failover and dynamic load balancing	Monitors hardware and software for failures, and automatically transfers control to another component or server without loss of service
<b>Isilon Systems Inc.</b> Isilon IQ X-Series	Clustered NAS	Allows independent scaling of capacity and performance
<b>LeftHand Networks Inc.</b> Network Storage Module (hardware from Dell, HP or IBM) and SAN/iQ clustering software	Clustered iSCSI SANs	Latest release includes performance improvements, data replication, failover and more efficient thin provisioning
<b>Network Appliance (NetApp) Inc.</b> NetApp Clustered Failover	Failover software	Monitors health of storage controllers and automatically fails over to working storage controller if needed
<b>Panasas Inc.</b> ActiveStor Storage Clusters; Parallel NFS (pNFS)	Parallel storage for clustered servers	Aimed at high-performance and technical computing environments. pNFS claims to eliminate NFS server scalability and performance issues by allowing clients to access storage devices directly and in parallel
<b>Sun Microsystems Inc.</b> Lustre	Clustered file system	Sun is aiming at the high-performance computing market; pledges continued support for Linux and Solaris, as well as for hardware from multiple vendors
<b>VMware</b> Virtual Machine File System	Clustered file system	Allows multiple instances of ESX Server to access the same virtual machine storage, easing movement of virtual machines among servers
<b>XIV Ltd.</b> ( <i>acquired by IBM Corp. in January 2008</i> ) Nextra	Scalable storage grid for snapshots	Replicates chunks of data among industry-standard servers; claims this scales CPU and cache as storage capacity grows