



E-Class High Performance Configuration

Subsystem Info:

One E310f cascaded with one J300s, both fully populated with SAS drives; total 24 drives with 512MB DDR2 ECC

HDD: 24 Fujitsu MAU3036RC SAS with disk write cache enabled and disabled

Array Configuration:

4 RAID 5 array units with 6 SAS drive each. Each array is mapped to each individual 4Gbit fiber channel port. These numbers are taken with the logical array units in write-back mode, using two hosts so not to be limited by the host CPU power and Bandwidth when driving traffic across all ports of the subsystem. Disabling of Cache Mirroring is available in SR2

Server Info:

Dell PowerEdge SC2900 x 2

Dual Intel dual-core Xeon 3.0GHz, 2MB L2 cache, 800MHz bus, 2GB DDR2 SDRAM ECC

HBA Info:

LSI 7204XP-LC

1 per server (dual ported, disregard topology of diagram below i.e. used 1 HBA with both ports per server)

RAID 5 Cache Mirroring Disabled:

	512B (IO/SEC)		64KB (MB/SEC)	
	READ	WRITE	READ	WRITE
Cached I/O Sequential	176631	142393	1459.2	1312.9
Disk I/O Sequential	174763	138135	1357.8	837.9

RAID6 Cache Mirroring Disabled:

	512B (IO/SEC)		64KB (MB/SEC)	
	READ	WRITE	READ	WRITE
Cached I/O Sequential	179170	143258	1453.9	1317.8
Disk I/O Sequential	177211	135773	1350.5	646.3

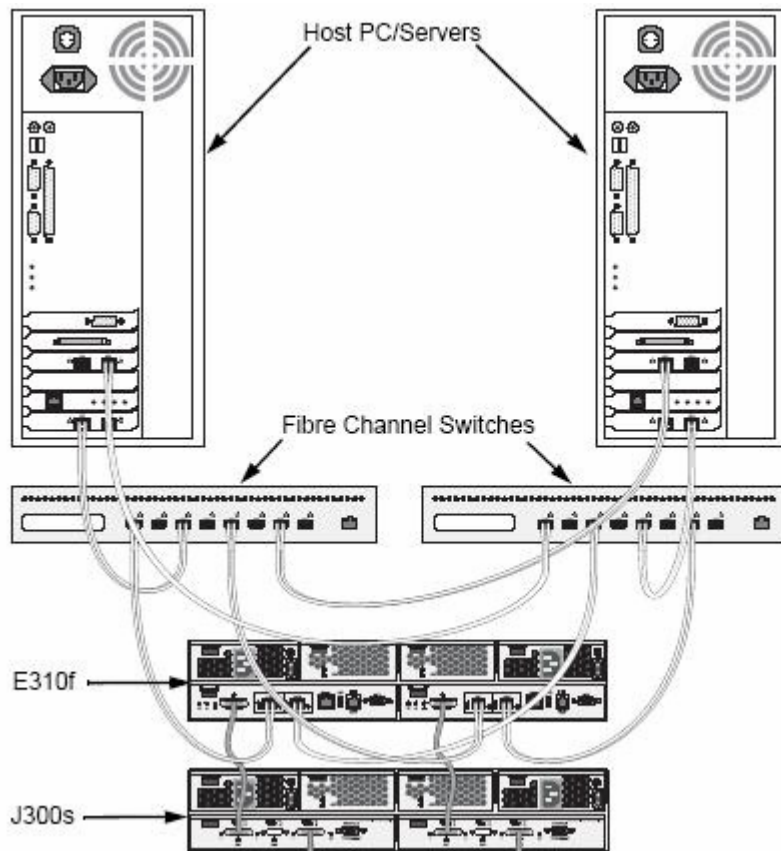
RAID5 Cache Mirroring Enabled:

	512B (IO/SEC)		64KB (MB/SEC)	
	READ	WRITE	READ	WRITE
Cached I/O Sequential	176521	20590	1463.9	848.9
Disk I/O Sequential	174482	20586	1360.9	450.6

RAID6 Cache Mirroring Enabled:

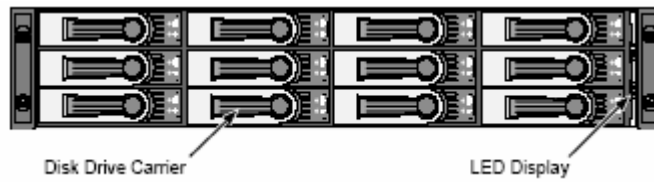
	512B (IO/SEC)		64KB (MB/SEC)	
	READ	WRITE	READ	WRITE
Cached I/O Sequential	177250	20622	1453.8	848.9
Disk I/O Sequential	175485	20569	1353.0	355.3

Setup Information:



Front View:

E310f



J300s

