

Unofficial Specs:	DS4100	FAStT200	FAStT200 HA	DS4300 SCU	DS4300	DS4300 Turbo	FAStT500	DS4400	DS4500	DS4800
Formerly:	FAST100	-	-	FAST600 SCU	FAST600	FAST600 Turbo	-	FASIT700	FASIT900	-
IBM:	1724-100	3542-1RU/1RX	3542-2RU-2RX	1722-60U/60X	1722-60U/60X	1722-60U/60X	3552-1RU/1RX	1742-1RU/1RX	1742-90RU/RX	1815-82A/84A/88A
LSI:	E2822	E2400	E2400	E2600	E2600	E2600	E4400	E4600	E5600	E6998
SGI:	TP9300	n/a	n/a	TP9300	TP9300	TP9300	TP9400 v1	TP9400 v2	TP9500	TP9700
STK:	?	D173	D173	D220	D220	D240	9176	D178	D280	FLX380
Raid Controllers:	2	1	2	1	2	2	2	2	2	2
Raid Levels:	0,1,3,5,10	0,1,3,5,10	0,1,3,5,10	0,1,3,5,10	0,1,3,5,10	0,1,3,5,10	0,1,3,5,10	0,1,3,5,10	0,1,3,5,10	0,1,3,5,10
Max Cache Memory:	256MB/cont	128MB/cont	128MB/cont	256MB/cont	256MB/cont	1GB/cont	512MB/cont	1GB/cont	1GB/cont	2:4:8GB/cont
Storage Manager:	9.10	9.10	9.10	9.10	9.10	9.10	9.10	9.10	9.10	9.14
Firmware:	5.42	05.30	05.30	05.34	05.34	6.10	5.30	6.10	06.10	06.14
HBA Speeds:	1:2Gbps	1Gbps	1Gbps	1:2Gbps	1:2Gbps	1:2Gbps	1Gbps	1:2Gbps	1:2Gbps	1:2:4Gbps
HBA Connections:	4	1	2	2	4	4	8; Notes 1 & 10	8; Notes 2 & 10	8; Notes 1 & 10	8; Notes 1 & 10
Disk Drive Speeds:	2Gbps	1Gbps	1Gbps	2Gbps	2Gbps	2Gbps	1Gbps	1:2Gbps	1:2Gbps	1:2:4Gbps
Max Qty FC-AL Disks:	n/a	30	60	14	56	112	220/224, Note 2	224, Note 2	224, Note 2	224, Note 2
Max Raw FC-AL Capacity:	n/a	4.4TB	8.8TB	2.0TB	8.2TB	16.4TB	32.1TB	32.7TB, Note 3	32.7TB, Note 3	67TB
Max Qty S-ATA Disks:	112	n/a	n/a	n/a	112	112	220/224, Note 2	224, Note 2	224, Note 2	224, Note 2
Max Raw S-ATA Capacity:	28TB	n/a	n/a	n/a	28TB	28TB	56TB	56TB	56TB	56TB
IOPs-Cache Read (FC-AL):	Not Supported	5,900, Note 4	11,800, Note 4	45,500, Note 4	45,500, Note 5	77,500, Note 5	60,000, Note 4	110,000, Note 5	148,000, Note 5	TBD
IOPs-Random Read (FC-AL):	Not Supported	2,300, Note 4	4,600, Note 4	17,500, Note 4	17,500, Note 5	25,000, Note 5	20,000, Note 4	38,000, Note 5	53,200, Note 5	TBD
IOPs-Random Write (FC-AL):	Not Supported	650, Note 4	1,300, Note 4	4,100, Note 4	4,100, Note 5	5,200, Note 5	5,018, Note 4	8,500, Note 5	10,900, Note 5	TBD
MB/s Cache Read (1) (FC-AL):	Not Supported	96	193	768	768	800	380	424	800	TBD
MB/s Seq Read (1) (FC-AL):	Not Supported	85	170	392	392	400	380	390	790	TBD
MB/s Seq Write (1) (FC-AL):	Not Supported	53	106	292	292	300	239	240	600	TBD
MB/s Seq Read (S-ATA):	Supported	Not Supported	Not Supported	Supported	Supported	111:264; Note 11	Not Supported	Supported	Supported	Supported
MB/s Seq Write (S-ATA):	Supported	Not Supported	Not Supported	Supported	Supported	52:95; Note 11	Not Supported	Supported	Supported	Supported
Seq Write, 16k Cache Seg (SATA):	Supported	Not Supported	Not Supported	Supported	Supported	62:128; Note 11	Not Supported	Supported	Supported	Supported
MB/s Seq Write, No Mirror (SATA):	Supported	Not Supported	Not Supported	Supported	Supported	103:170; Note 11	Not Supported	Supported	Supported	Supported
Base Partition Licenses:	0, Note 8	16	16	0, Note 8	0, Note 8	8	16	64	16	16
Max Partitions Licenses:	Upg to 4, 8, 16	16	16	Upg to 4, 8, 16	Upg to 4, 8, 16	Upg 16 or 64	64	64	64	64
Max LUNs:	1,024	512	512	1,024	1,024	1,024	512	2,048	2,048	TBD
LUNs per Partition:	32	32	32	32	32	256	32	256, Note 9	256, Note 9	TBD
Premium Features (6):	F,V,R	F	F	n/a	F	F,V,R	F,R	F,R,V (7)	F,R,V (7)	TBD
Max flashcopy vols w/o RM:	4:256, Note 12	4:256, Note 12	4:256, Note 12	4:512, Note 12	4:512, Note 12	4:512, Note 12	4:256, Note 12	4:1024, Note 12	4:1024, Note 12	TBD
Additional Details URLs:										

(1) For more than 4 connections, requires the purchase of 2 additional mini-hubs.

(2) For more than 110 (1Gbps EXP500) or 112 (2Gbps EXP710/700) you need to purchase 2 additional drive side mini-hubs.

(3) Assumes 14 EXP700's with 2Gbps hard disks.

(4) Perf measured w/Storage Mgr 8.3 & 05.3x firmware & represent subsystem maxs, not average response.

(5) Perf measured w/Storage Mgr 8.3 & 05.3x firmware & represent subsystem maxs, not avg response. FAST600Turbo & 900 used Storage Mgr 8.4.

(6) F=FlashCopy, V=Volume Copy, R=Remote Mirroring

(7) Volume Copy requires Storage Manager 8.4 and firmware 05.4x or higher.

(8) Note with 0 base partitions all LUNs will be created in the Default Host Group. Many LUNs can be created.

(9) Storage Mgr 8.4 or later firmware required for 256 LUNs/partition.

(10) If more than 4 connections, you can only direct-attach. i.e. SAN-attach not avail for >4 connections.

(11) Min:Max where Min=1 and Max=8 drawers

(12) MaxRunning:MaxConfigured (without remote mirroring option enabled).

** Only 32 LUNs in default host grp w/8.3. Add'l partition lic keys can be purchased to get 4:8:16 partitions in addition to default host group.

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Updates: <http://rainsux.dyndns.org/DS4000-FAST-Features.pdf>

Date: 27-Jan-2006

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NT:	No	RPQ	RPQ	RPQ	RPQ	RPQ	RPQ	RPQ	RPQ	?
(Dropped @ SM9.1)		FC	FC	FC	FC	FC, VC	FC, RM	FC, VC, RM	FC, VC, RM	
Win2000 & Win2003:	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	FC	FC	FC	FC	FC	FC, VC	FC, RM	FC, VC, RM	FC, VC, RM	FC, VC, RM
Novell:	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	FC	FC	FC	FC	FC	FC, VC	FC, RM	FC, VC, RM	FC, VC, RM	FC, VC, RM
Linux for Intel (IA-32):	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	FC	FC	FC	FC	FC	FC, VC	FC, RM	FC, VC, RM	FC, VC, RM	FC, VC, RM
AIX:	Yes	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
	FC		FC		FC	FC, VC	FC, RM	FC, VC, RM	FC, VC, RM	FC, VC, RM
Dynix:	No	Yes	Yes	No	No	No	No	No	No	No
HP-UX:	27-Aug-04	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
		FC	FC	FC	FC	FC, VC	FC, RM	FC, VC, RM	FC, VC, RM	FC, VC, RM
Solaris:	27-Aug-04	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
		FC	FC	FC	FC	FC, VC	FC, RM	FC, VC, RM	FC, VC, RM	FC, VC, RM
IRIX:	RPQ	RPQ	RPQ	RPQ	RPQ	RPQ	RPQ	RPQ	RPQ	RPQ
VMware:	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Tru64:	RPQ	RPQ	RPQ	RPQ	RPQ	RPQ	RPQ	RPQ	RPQ	?
MPEix:	No	No	No	No	No	No	No	No	No	No

Full Details: <http://www.storage.ibm.com/disk/fastt/pdf/interop-matrix.pdf>

Authors: mailto:doug_ranz@hotmail.com

FC: Flash Copy

VC: Volume Copy

RM: Remote Mirroring

?: Still Investigating. If you think you've got the answer, please contact me.

Updates: <http://rainsux.dyndns.org/DS4000-FASIT-Features.pdf>

Date: 27-Jan-2006