

Unofficial Specs:

	DS4100	FAStT200	FAStT200 HA	DS4300 SCU	DS4300	DS4300 Turbo	FAStT500	DS4500	DS4800
Formerly:	FAStT100	-	-	FAStT600 SCU	FAStT600	FAStT600 Turbo	-	FAStT900	-
IBM:	1724-100	3542-1RU/1RX	3542-2RU-2RX	1722-60U/60X	1722-60U/60X	1722-60U/60X	3552-1RU/1RX	1742-90RU/RX	1815-82A/84A
LSI:	?	E2400	E2400	E2600	E2600	E2600	E4400	E5600	?
SGI:	?	n/a	n/a	TP9300	TP9300	TP9300	TP9400 v1	TP9500	?
STK:	?	D173	D173	D220	D220	D240	9176	D280	?
Raid Controllers:	2	1	2	1	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
Max Cache Memory:	256MB/cont	128MB/cont	128MB/cont	256MB/cont	256MB/cont	1GB/cont	512MB/cont	1GB/cont	2GB/ctrl : 4GB/ctrl
Storage Manager:	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	06.10	06.14
HBA Speeds:	1:2Gbps	1Gbps	1Gbps	1:2Gbps	1:2Gbps	1:2Gbps	1Gbps	1:2Gbps	1:2:4Gbps
HBA Connections:	4	1	2	2	4	4	8; Notes 1 & 10	8; Notes 1 & 10	8
Disk Drive Speeds:	2Gbps	1Gbps	1Gbps	2Gbps	2Gbps	2Gbps	1Gbps	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
Max Raw FC-AL Capacity:	n/a	4.4TB	8.8TB	2.0TB	8.2TB	16.4TB	32.1TB	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
Max Raw S-ATA Capacity:	28TB	n/a	n/a	n/a	28TB	28TB	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	148,000, Note 5	550,000
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	53,200, Note 5	79,000
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	10,900, Note 5	22,000
MB/s Cache Read (1) (FC-AL):	Not Supported	96	193	768	768	800	380	800	1,600
MB/s Seq Read (1) (FC-AL):	Not Supported	85	170	392	392	400	380	790	1,600
MB/s Seq Write (1) (FC-AL):	Not Supported	53	106	292	292	300	239	600	1,300
MB/s Seq Read (S-ATA):	Supported	Not Supported	Not Supported	Supported	Supported	111:264; Note 11	Not Supported	Supported	Supported
MB/s Seq Write (S-ATA):	Supported	Not Supported	Not Supported	Supported	Supported	52:95; Note 11	Not Supported	Supported	Supported
Seq Write, 16k Cache Seg (SATA):	Supported	Not Supported	Not Supported	Supported	Supported	62:128; Note 11	Not 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
Base Partition Licenses:	0, Note 8	16	16	0, Note 8	0, Note 8	8	16	16	8,16,64
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
Max LUNs:	1,024	512	512	1,024	1,024	1,024	512	2,048	2,048
LUNs per Partition:	32	32	32	32	32	256	32	256, Note 9	256, Note 9
Premium Features (6):	F,R	F	F	F	F,V	F,V,R	F,R	F,R,V (7)	F,R,V
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
Additional Details URLs:	%s/ibm.com/compatibility_services_pdf87786.pdf	%s/ibm.com/compatibility_services_pdf86812.pdf	%s/ibm.com/compatibility_services_pdf86812.pdf	%s/ibm.com/compatibility_services_pdf86812.pdf	%s/ibm.com/compatibility_services_pdf86812.pdf	%s/ibm.com/compatibility_services_pdf86812.pdf	%s/ibm.com/compatibility_services_pdf86812.pdf	%s/ibm.com/compatibility_services_pdf86812.pdf	%s/ibm.com/compatibility_services_pdf86812.pdf

- (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. FAStT600Turbo & 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).

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Updates: <http://rainsux.dvndns.org/DS4000-FAStT-Features.pr>

Date: 10-May-2005

** 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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	1742-100	3542-1RU/1RX	3542-2RU-2RX	1722-60U/60X	1722-60U/60X	1722-60U/60X	3552-1RU/1RX	1742-1RU/1RX	1815-82A/84A
NT: (Dropped @ SM9.1)	No	RPQ FC	RPQ FC	RPQ FC	RPQ FC	RPQ FC, VC	RPQ FC, RM	RPQ FC, VC, RM	No
Win2000 & Win2003:	Yes FC	Yes FC	Yes FC	Yes FC	Yes FC	Yes FC, VC	Yes FC, RM	Yes FC, VC, RM	Yes FC, VC, RM
Novell:	Yes FC	Yes FC	Yes FC	Yes FC	Yes FC	Yes FC, VC	Yes FC, RM	Yes FC, VC, RM	Yes FC, VC, RM
Linux for Intel (IA-32):	Yes FC	Yes FC	Yes FC	Yes FC	Yes FC	Yes FC, VC	Yes FC, RM	Yes FC, VC, RM	Yes FC, VC, RM
AIX:	Yes FC	No	Yes FC	No	Yes FC	Yes FC, VC	Yes FC, RM	Yes FC, VC, RM	Yes FC, VC, RM
Dynix:	No	Yes	Yes	No	No	No	No	No	No
HP-UX:	27-Aug-04	Yes FC	Yes FC	Yes FC	Yes FC	Yes FC, VC	Yes FC, RM	Yes FC, VC, RM	Yes FC, VC, RM
Solaris:	27-Aug-04	Yes FC	Yes FC	Yes FC	Yes FC	Yes FC, VC	Yes FC, RM	Yes FC, VC, RM	Yes FC, VC, RM
IRIX:	RPQ	RPQ	RPQ	RPQ	RPQ	RPQ	RPQ	RPQ	RPQ
VMware:	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes FC, VC, RM
Tru64:	RPQ	RPQ	RPQ	RPQ	RPQ	RPQ	RPQ	RPQ	RPQ
MPEix:	No	No	No	No	No	No	No	No	No

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

FC: Flash Copy

VC: Volume Copy

RM: Remote Mirroring

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

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Unofficial Specs:

DS4400

Formerly: FAST700
1742-1RU/1RX

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

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