

HDS RAID Arrays SAN Boot Support Matrix

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Cells highlighted in light blue are new entries.

Support of OS, OS/HBA, or specific HBA Code with "Submit ISR" indicated or that is not in this matrix requires a interoperability support request (ISR).

IBM AIX HBA Support

IBM AIX 5.3	VSP		USP-V/M		USP/NSC	
FW / FCODE	Direct	Switch	Direct	Switch	Direct	Switch
IBM 41Y8527	Submit ISR	Submit ISR	Submit ISR	1.24 2.00	Submit ISR	1.24
IBM 43W6859	Submit ISR	Submit ISR	Submit ISR	3.10a0	Submit ISR	Submit ISR
IBM 44X1945	Submit ISR	Submit ISR	Submit ISR	3.14	Submit ISR	Submit ISR
IBM 5716	1.91a5	Submit ISR	1.91a5	1.90a4 1.90x13 1.91a5	1.90a4 1.91a5	1.90a4 1.91a5
IBM 5735	Not supported	1.11x4	Not supported	1.10a5 1.11x4 111304	Not supported	1.10a5
IBM 5758	Submit ISR	Submit ISR	2.10x8	2.10x8 2.71x4 2.71x10	2.10x5	2.10x5 2.10x8 2.71x4 2.71x10
IBM 5759	Submit ISR	Submit ISR	2.10x8	2.10x8 2.71x4 2.71x10	2.10x5	2.10x5 2.10x8 2.71x4 2.71x10
IBM 5773	Submit ISR	Submit ISR	2.71a2	2.71a2 2.71x15	Submit ISR	2.71a2 2.71x15
IBM 5774	Submit ISR	Submit ISR	2.71a2	2.71a2 2.71x15	Submit ISR	2.71a2 2.71x15
IBM 6228	Submit ISR	Submit ISR	3.93a0	3.93a0	Submit ISR	3.91a1 3.93a0
IBM 6239	Submit ISR	Submit ISR	1.92a1	1.92a1	1.81x1 1.92a1	1.00x5 1.81x1 1.92a1

IBM AIX 6.1	VSP		USP-V/M		USP/NSC	
FW / FCODE	Direct	Switch	Direct	Switch	Direct	Switch

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IBM 41Y8527	Submit ISR	Submit ISR	Submit ISR	2.04	Submit ISR	Submit ISR
IBM 44X1945	Submit ISR	Submit ISR	Submit ISR	3.14	Submit ISR	Submit ISR
IBM 5716	1.91a5	1.91a5	1.91a5 191105	1.90a4 1.90x13 1.91a5 191105	1.90a4 1.91a5	1.90a4 1.91a5
IBM 5735	Not supported	1.11x4	Not supported	1.10a5 1.11x4 111304	Not supported	Submit ISR
IBM 5758	Submit ISR	2.71x4 2.71x10	2.10x8	2.10x8 2.71x4 2.71x10	2.10x5	2.10x5 2.10x8 2.71x4 2.71x10
IBM 5759	Submit ISR	2.71x4 2.71x10	2.10x8	2.10x8 2.71x4 2.71x10	2.10x5	2.10x5 2.10x8 2.71x4 2.71x10
IBM 5773	Submit ISR	2.71a2	2.71a2	1.11x4 2.71a2	Submit ISR	2.71a2
IBM 5774	Submit ISR	2.71a2	2.71a2	1.11x4 2.71a2	Submit ISR	2.71a2
IBM 6228	Submit ISR	Submit ISR	3.93a0	3.93a0	Submit ISR	3.91a1 3.93a0
IBM 6239	1.92a1	1.92a1	1.92a1 1.92a2 192101	1.92a2 192101	1.81x1 1.92a1 192101	1.00x5 1.81x1 1.92a1 192101

IBM AIX 7.1	VSP		USP-V/M		USP/NSC	
FW / FCODE	Direct	Switch	Direct	Switch	Direct	Switch
IBM 5716	1.91a5	1.91a5	1.91a5	1.91a5	1.91a5	1.91a5
IBM 5758	Submit ISR	2.71x4 2.71x10	Submit ISR	Submit ISR	Submit ISR	Submit ISR
IBM 5759	Submit ISR	2.71x4 2.71x10	Submit ISR	Submit ISR	Submit ISR	Submit ISR
IBM 6239	1.92a1	1.92a1	1.92a1	1.92a1	1.92a1	1.92a1

HP HP-UX (IA64) HBA Support

HP HP-UX 11.23 (IA64)	VSP		USP-V/M		USP/NSC	
EFI	Direct	Switch	Direct	Switch	Direct	Switch
HP 403619-B21	Submit ISR	Submit ISR	1.09	1.05 1.09	1.09	1.05 1.09
HP 403621-B21	Submit ISR	Submit ISR	Submit ISR	1.09	Submit ISR	1.09

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HP A6795A	Submit ISR	Submit ISR	Submit ISR	1.24	1.24	1.17 1.24
HP A6826A	Submit ISR	Submit ISR	1.49	1.49	1.49	1.47 1.49
HP A9782A	Submit ISR	Submit ISR	1.49	1.49	1.49	1.47 1.49
HP A9784A	Submit ISR	Submit ISR	1.49	1.49	1.49	1.47 1.49
HP AB378A	Submit ISR	Submit ISR	1.05	1.05 1.09	1.05	1.01 1.05 1.09
HP AB378B	Submit ISR	Submit ISR	1.05	1.05 1.09	1.05	1.05 1.09
HP AB379A	Submit ISR	Submit ISR	1.05	1.05 1.09	1.05	1.01 1.05 1.09
HP AB379B	Submit ISR	Submit ISR	1.05	1.05 1.09	1.05	1.05 1.09
HP AB465A	Submit ISR	Submit ISR	1.49	1.49	1.49	1.47 1.49
HP AD193A	Submit ISR	Submit ISR	1.05	1.05 1.09	1.05	1.05 1.09
HP AD194A	Submit ISR	Submit ISR	1.05	1.05 1.09	1.05	1.05 1.09
HP AD299A	Submit ISR	Submit ISR	1.05	1.05 3.21a3	1.05	1.05 3.21a3
HP AD300A	Submit ISR	Submit ISR	1.09	1.05 1.09	1.09	1.05 1.09
HP AD355A	Submit ISR	Submit ISR	1.05	1.05 3.21a3	1.05	1.05 3.21a3

HP HP-UX 11.31 (IA64)	VSP		USP-V/M		USP/NSC	
EFI	Direct	Switch	Direct	Switch	Direct	Switch
HP 403619-B21	Submit ISR	Submit ISR	1.09	1.05 1.09 2.20	1.09	1.05 1.09 2.20
HP 403621-B21	Submit ISR	Submit ISR	Submit ISR	1.09	Submit ISR	1.09
HP 451871-B21	Submit ISR	2.20	Submit ISR	Submit ISR	Submit ISR	Submit ISR
HP A6795A	Submit ISR	Submit ISR	1.24	1.24	1.24	1.24
HP A6826A	Submit ISR	Submit ISR	1.49	1.49	1.49	1.49
HP A9782A	Submit ISR	Submit ISR	1.49	1.49	1.49	1.49
HP A9784A	Submit ISR	Submit ISR	1.49	1.49	1.49	1.49

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HP AB378A	Submit ISR	Submit ISR	1.05	1.05 1.09	1.05	1.05 1.09
HP AB378B	Submit ISR	Submit ISR	1.05	1.05 1.09	1.05	1.05 1.09
HP AB379A	Submit ISR	Submit ISR	1.05	1.05 1.09	1.05	1.05 1.09
HP AB379B	Submit ISR	Submit ISR	1.05	1.05 1.09	1.05	1.05 1.09
HP AB465A	Submit ISR	Submit ISR	1.49	1.49	1.49	1.49
HP AD193A	Submit ISR	Submit ISR	1.05	1.05 1.09	1.05	1.05 1.09
HP AD194A	Submit ISR	Submit ISR	1.05	1.05 1.09	1.05	1.05 1.09
HP AD222A	Submit ISR	Submit ISR	Submit ISR	4.00a8	Submit ISR	Submit ISR
HP AD299A	Submit ISR	Submit ISR	Submit ISR	3.21a3	Submit ISR	3.21a3
HP AD300A	Submit ISR	Submit ISR	1.09	1.05 1.09	1.09	1.05 1.09
HP AD355A	Submit ISR	Submit ISR	Submit ISR	3.21a3	Submit ISR	3.21a3

HP HP-UX (PA-RISC) HBA Support

HP HP-UX 11.23 (PA-RISC) FW / FCODE	VSP		USP-V/M		USP/NSC	
	Direct	Switch	Direct	Switch	Direct	Switch
HP A5158A	Submit ISR	Submit ISR	Bundled	Bundled	Bundled	Bundled
HP A6795A	Submit ISR	Submit ISR	Submit ISR	Bundled	Bundled	Bundled
HP A6826A	Submit ISR	Submit ISR	3.03.154	3.03.154	3.03.154	3.03.154
HP A9782A	Submit ISR	Submit ISR	3.03.154	3.03.154	3.03.154	3.03.154
HP A9784A	Submit ISR	Submit ISR	3.03.154	3.03.154	3.03.154	3.03.154
HP AB378A	Submit ISR	Submit ISR	4.00.70	4.00.70 4.00.90	4.00.70	4.00.70 4.00.90
HP AB378B	Submit ISR	Submit ISR	4.00.70	4.00.70 4.00.90	4.00.70	4.00.70 4.00.90
HP AB379A	Submit ISR	Submit ISR	4.00.70	4.00.70 4.00.90	4.00.70	4.00.70 4.00.90
HP AB379B	Submit ISR	Submit ISR	4.00.70	4.00.70 4.00.90	4.00.70	4.00.70 4.00.90
HP AB465A	Submit ISR	Submit ISR	3.03.154	3.03.154	3.03.154	3.03.150 3.03.154

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HP AD193A	Submit ISR	Submit ISR	4.00.70	4.00.70 4.00.90	4.00.70	4.00.70 4.00.90
HP AD194A	Submit ISR	Submit ISR	4.00.70	4.00.70 4.00.90	4.00.70	4.00.70 4.00.90

HP HP-UX 11.31 (PA-RISC)	VSP		USP-V/M		USP/NSC	
FW / FCODE	Direct	Switch	Direct	Switch	Direct	Switch
HP A5158A	Submit ISR	Submit ISR	Bundled	Bundled	Bundled	Bundled
HP A6795A	Submit ISR	Submit ISR	Bundled	Bundled	Bundled	Bundled
HP A6826A	Submit ISR	Submit ISR	3.03.154	3.03.154	3.03.154	3.03.154
HP A9782A	Submit ISR	Submit ISR	3.03.154	3.03.154	3.03.154	3.03.154
HP A9784A	Submit ISR	Submit ISR	3.03.154	3.03.154	3.03.154	3.03.154
HP AB378A	Submit ISR	Submit ISR	4.00.70	4.00.70 4.00.90	4.00.70	4.00.70 4.00.90
HP AB378B	Submit ISR	Submit ISR	4.00.70	4.00.70 4.00.90	4.00.70	4.00.70 4.00.90
HP AB379A	Submit ISR	Submit ISR	4.00.70	4.00.70 4.00.90	4.00.70	4.00.70 4.00.90
HP AB379B	Submit ISR	Submit ISR	4.00.70	4.00.70 4.00.90	4.00.70	4.00.70 4.00.90
HP AB465A	Submit ISR	Submit ISR	3.03.154	3.03.154	3.03.154	3.03.150 3.03.154
HP AD193A	Submit ISR	Submit ISR	4.00.70	4.00.70 4.00.90	4.00.70	4.00.70 4.00.90
HP AD194A	Submit ISR	Submit ISR	4.00.70	4.00.70 4.00.90	4.00.70	4.00.70 4.00.90

RedHat Linux (IA32) HBA Support

Linux RHEL 4.0 (IA32)	VSP		USP-V/M		USP/NSC	
BIOS	Direct	Switch	Direct	Switch	Direct	Switch
Emulex LP10000	Submit ISR	Submit ISR	Submit ISR	2.02a1	Submit ISR	2.02a1
Emulex LP10000DC	Submit ISR	Submit ISR	Submit ISR	2.02a1	Submit ISR	2.02a1
Emulex LPe11000	Submit ISR	Submit ISR	Submit ISR	2.00a1	Submit ISR	2.00a1
Emulex LPe11002	Submit ISR	Submit ISR	Submit ISR	2.00a1	Submit ISR	2.00a1
HP 403619-B21	Submit ISR	Submit ISR	Submit ISR	1.26	Submit ISR	1.26
HP 403621-B21	Submit ISR	Submit ISR	3.00a4	3.00a4	Submit ISR	3.00a4

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QLogic QLA2340	Submit ISR	Submit ISR	Submit ISR	1.43	Submit ISR	Submit ISR
QLogic QLA2460	Submit ISR	Submit ISR	Submit ISR	1.29	Submit ISR	1.29
QLogic QLA2462	Submit ISR	Submit ISR	Submit ISR	1.29	Submit ISR	1.29
QLogic QLE2460	Submit ISR	Submit ISR	1.04	1.04	1.29	1.29
Sun SG-XPCI1FC-QF4	Submit ISR	Submit ISR	Submit ISR	1.29	Submit ISR	1.29
Sun SG-XPCI2FC-QF4	Submit ISR	Submit ISR	Submit ISR	1.29	Submit ISR	1.29
Sun SG-XPCIE1FC-EM4	Submit ISR	Submit ISR	Submit ISR	2.00a1	Submit ISR	2.00a1
Sun SG-XPCIE1FC-QF4	Submit ISR	Submit ISR	Submit ISR	Submit ISR	1.29	1.29
Sun SG-XPCIE2FC-EM4	Submit ISR	Submit ISR	Submit ISR	2.00a1	Submit ISR	2.00a1
Sun SG-XPCIE2FC-QF4	Submit ISR	Submit ISR	Submit ISR	Submit ISR	1.29	1.29

Linux RHEL 5.0 (IA32)	VSP		USP-V/M		USP/NSC	
BIOS	Direct	Switch	Direct	Switch	Direct	Switch
Emulex LP11000	Submit ISR	Submit ISR	2.02a2	2.02a2	Submit ISR	Submit ISR
Emulex LP11002	Submit ISR	Submit ISR	2.02a2	2.02a2	Submit ISR	Submit ISR
Emulex LPe11000	Submit ISR	Submit ISR	2.02a2	2.00a1 2.02a2	Submit ISR	2.00a1 3.03a9
Emulex LPe11002	Submit ISR	Submit ISR	2.02a2	2.00a1 2.02a2	Submit ISR	2.00a1 3.03a9
Emulex LPe12000	Submit ISR	Submit ISR	2.02a2	2.02a2	Submit ISR	2.02a2
Emulex LPe12002	Submit ISR	Submit ISR	2.02a2	2.02a2	Submit ISR	2.02a2
HP 361426-B21	Submit ISR	Submit ISR	Submit ISR	1.45	Submit ISR	Submit ISR
HP 403619-B21	Submit ISR	Submit ISR	Submit ISR	1.26	Submit ISR	1.26
HP 403621-B21	Submit ISR	Submit ISR	3.00a4	3.00a4	Submit ISR	3.00a4
IBM 46M6065	Submit ISR	2.09	Submit ISR	Submit ISR	Submit ISR	Submit ISR
QLogic QLA2460	Submit ISR	1.29	2.01 2.10	1.29	Submit ISR	1.29
QLogic QLA2462	Submit ISR	1.29	2.01 2.10	1.29	Submit ISR	1.29

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QLogic QLE2460	Submit ISR	Submit ISR	2.02 2.10	2.02	1.29 2.02 2.10	1.29 2.02
QLogic QLE2462	Submit ISR	Submit ISR	2.02 2.10	2.02	1.29 2.02 2.10	1.29 2.02
QLogic QLE2560	Submit ISR	Submit ISR	2.10	2.02	2.10	2.10
QLogic QLE2562	Submit ISR	Submit ISR	2.10	2.02	2.10	2.10
Sun SG-XPCI1FC-QF4	Submit ISR	Submit ISR	Submit ISR	1.29	Submit ISR	1.29
Sun SG-XPCI2FC-QF4	Submit ISR	Submit ISR	Submit ISR	1.29	Submit ISR	1.29
Sun SG-XPCIE1FC-EM4	Submit ISR	Submit ISR	Submit ISR	2.00a1	Submit ISR	2.00a1
Sun SG-XPCIE1FC-QF4	Submit ISR	Submit ISR	Submit ISR	Submit ISR	1.29	1.29
Sun SG-XPCIE2FC-EM4	Submit ISR	Submit ISR	Submit ISR	2.00a1	Submit ISR	2.00a1
Sun SG-XPCIE2FC-QF4	Submit ISR	Submit ISR	Submit ISR	Submit ISR	1.29	1.29

Linux RHEL 6.X (IA32)	VSP		USP-V/M		USP/NSC	
BIOS	Direct	Switch	Direct	Switch	Direct	Switch
Hitachi HFC0401/0402	Submit ISR	Submit ISR	Submit ISR	10.00.03.07	Submit ISR	Submit ISR
Hitachi HFCE0802	Submit ISR	Submit ISR	Submit ISR	10.00.04.03	Submit ISR	Submit ISR

RedHat Linux (IA64) HBA Support

Linux RHEL 4.0 (IA64)	VSP		USP-V/M		USP/NSC	
EFI	Direct	Switch	Direct	Switch	Direct	Switch
HP 403619-B21	Submit ISR	Submit ISR	Submit ISR	1.09	Submit ISR	1.09

Linux RHEL 5.0 (IA64)	VSP		USP-V/M		USP/NSC	
EFI	Direct	Switch	Direct	Switch	Direct	Switch
HP 403619-B21	Submit ISR	Submit ISR	Submit ISR	1.09	Submit ISR	1.09
HP 403621-B21	Submit ISR	Submit ISR	Submit ISR	6.03a11	Submit ISR	Submit ISR

RedHat Linux (X64) HBA Support

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Linux RHEL 4.0 (X64)	VSP		USP-V/VM		USP/NSC	
BIOS	Direct	Switch	Direct	Switch	Direct	Switch
Emulex LPe11000	Submit ISR	Submit ISR	2.00a1	2.00a1	2.00a1	2.00a1
Emulex LPe11002	Submit ISR	Submit ISR	2.00a1	2.00a1	2.00a1	2.00a1
HP 403619-B21	Submit ISR	Submit ISR	Submit ISR	1.26	Submit ISR	1.26
HP 403621-B21	Submit ISR	Submit ISR	3.00a4	3.00a4	Submit ISR	3.00a4
IBM 26R0884	Submit ISR	Submit ISR	Submit ISR	Submit ISR	1.24	1.24
IBM 26R0890	Submit ISR	Submit ISR	Submit ISR	Submit ISR	1.24	1.24
QLogic QLA2460	Submit ISR	Submit ISR	Submit ISR	Submit ISR	1.24	1.24
QLogic QLA2462	Submit ISR	Submit ISR	Submit ISR	Submit ISR	1.24	1.24
QLogic QLE2460	Submit ISR	Submit ISR	1.29	1.29	Submit ISR	1.29
QLogic QLE2462	Submit ISR	Submit ISR	1.29	1.29	Submit ISR	1.29
Sun SG-XPCI1FC-QF4	Submit ISR	Submit ISR	Submit ISR	Submit ISR	1.24	1.24
Sun SG-XPCI2FC-QF4	Submit ISR	Submit ISR	Submit ISR	Submit ISR	1.24	1.24
Sun SG-XPCIE1FC-EM4	Submit ISR	Submit ISR	2.00a1	2.00a1	2.00a1	2.00a1
Sun SG-XPCIE1FC-QF4	Submit ISR	Submit ISR	1.29	1.29	Submit ISR	1.29
Sun SG-XPCIE2FC-EM4	Submit ISR	Submit ISR	2.00a1	2.00a1	2.00a1	2.00a1
Sun SG-XPCIE2FC-QF4	Submit ISR	Submit ISR	1.29	1.29	Submit ISR	1.29
Sun SG-XPCIEFCGBE-Q8-Z	Submit ISR	Submit ISR	Submit ISR	2.02	Submit ISR	Submit ISR

Linux RHEL 5.0 (X64)	VSP		USP-V/VM		USP/NSC	
BIOS	Direct	Switch	Direct	Switch	Direct	Switch
Brocade 825	Submit ISR	Submit ISR	Submit ISR	Submit ISR	Submit ISR	2.3.0.0
Cisco UCS M81KR	Submit ISR	2.0(1q)	Submit ISR	Submit ISR	Submit ISR	Submit ISR
Emulex LPe11000	Submit ISR	2.02a2	2.00a1	2.00a1 2.82a4	2.00a1	2.00a1
Emulex LPe11002	Submit ISR	2.02a2	2.00a1	2.00a1 2.82a4	2.00a1	2.00a1
HP 403619-B21	Submit ISR	Submit ISR	Submit ISR	1.26	Submit ISR	1.26

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HP 403621-B21	Submit ISR	Submit ISR	3.00a4	3.00a4 3.03a9	Submit ISR	3.00a4
HP 456972-B21	Submit ISR	Submit ISR	Submit ISR	6.03a11	Submit ISR	Submit ISR
IBM 26R0884	Submit ISR	Submit ISR	Submit ISR	Submit ISR	1.24	1.24
IBM 26R0890	Submit ISR	Submit ISR	Submit ISR	Submit ISR	1.24	1.24
IBM 44X1940	Submit ISR	2.09	Submit ISR	2.09	Submit ISR	2.09
IBM 46M6065	Submit ISR	Submit ISR	Submit ISR	2.09	Submit ISR	Submit ISR
QLogic QLA2460	Submit ISR	Submit ISR	2.10	1.29 2.10	1.24	1.24 1.29
QLogic QLA2462	Submit ISR	Submit ISR	2.10	1.29 2.10	1.24	1.24 1.29
QLogic QLE2460	Submit ISR	Submit ISR	1.29	1.29	Submit ISR	1.29
QLogic QLE2462	Submit ISR	Submit ISR	1.29	1.29	Submit ISR	1.29
Sun SG-XPCI1FC-QF4	Submit ISR	Submit ISR	Submit ISR	Submit ISR	1.24	1.24
Sun SG-XPCI2FC-QF4	Submit ISR	Submit ISR	Submit ISR	Submit ISR	1.24	1.24
Sun SG-XPCIE1FC-EM4	Submit ISR	Submit ISR	2.00a1	2.00a1	2.00a1	2.00a1
Sun SG-XPCIE1FC-QF4	Submit ISR	Submit ISR	1.29	1.29	Submit ISR	1.29
Sun SG-XPCIE2FC-EM4	Submit ISR	Submit ISR	2.00a1	2.00a1	2.00a1	2.00a1
Sun SG-XPCIE2FC-QF4	Submit ISR	Submit ISR	1.29	1.29	Submit ISR	1.29
Sun SG-XPCIEFCGBE-Q8-Z	Submit ISR	Submit ISR	Submit ISR	2.02	Submit ISR	Submit ISR

Linux RHEL 6.X (X64)	VSP		USP-V/M		USP/NSC	
BIOS	Direct	Switch	Direct	Switch	Direct	Switch
Hitachi HFC0401/0402	Submit ISR	Submit ISR	Submit ISR	10.00.03.07	Submit ISR	Submit ISR
Hitachi HFCE0802	Submit ISR	Submit ISR	Submit ISR	10.00.04.03	Submit ISR	Submit ISR

SuSE Linux (IA32) HBA Support

Linux SLES 9.0 (IA32)	VSP		USP-V/M		USP/NSC	
BIOS	Direct	Switch	Direct	Switch	Direct	Switch
HP 403619-B21	Submit ISR	Submit ISR	Submit ISR	1.26	Submit ISR	1.26

HDS RAID Arrays SAN Boot Support Matrix

HP 403621-B21	Submit ISR	Submit ISR	3.00a4	3.00a4	Submit ISR	3.00a4
QLogic QLA2460	Submit ISR	Submit ISR	1.29	1.29	1.29	1.29
QLogic QLA2462	Submit ISR	Submit ISR	Submit ISR	Submit ISR	1.29	1.29
QLogic QLE2460	Submit ISR	Submit ISR	1.29	1.29	1.29	1.29
QLogic QLE2462	Submit ISR	Submit ISR	Submit ISR	Submit ISR	1.29	1.29

Linux SLES 10.0 (IA32)	VSP		USP-V/VM		USP/NSC	
BIOS	Direct	Switch	Direct	Switch	Direct	Switch
HP 403619-B21	Submit ISR	Submit ISR	Submit ISR	1.26	Submit ISR	1.26
HP 403621-B21	Submit ISR	Submit ISR	3.00a4	Submit ISR	Submit ISR	3.00a4
QLogic QLA2460	Submit ISR	Submit ISR	1.29 2.10	1.29 2.10	1.29	1.29
QLogic QLA2462	Submit ISR	Submit ISR	1.29 2.10	1.29 2.10	1.29	1.29
QLogic QLE2460	Submit ISR	Submit ISR	1.29	1.29	1.29	1.29
QLogic QLE2462	Submit ISR	Submit ISR	Submit ISR	Submit ISR	1.29	1.29
Linux SLES 11.0 (IA32)	VSP		USP-V/VM		USP/NSC	
BIOS	Direct	Switch	Direct	Switch	Direct	Switch
Emulex LP11000	Submit ISR	Submit ISR	Submit ISR	3.03a9	Submit ISR	Submit ISR
Emulex LP11002	Submit ISR	Submit ISR	Submit ISR	3.03a9	Submit ISR	Submit ISR

SuSE Linux (IA64) HBA Support

Linux SLES 9.0 (IA64)	VSP		USP-V/VM		USP/NSC	
EFI	Direct	Switch	Direct	Switch	Direct	Switch
HP 403619-B21	Submit ISR	Submit ISR	Submit ISR	1.09	Submit ISR	1.09

Linux SLES 10.0 (IA64)	VSP		USP-V/VM		USP/NSC	
EFI	Direct	Switch	Direct	Switch	Direct	Switch
HP 403619-B21	Submit ISR	Submit ISR	Submit ISR	1.09	Submit ISR	1.09

SuSE Linux (X64) HBA Support

HDS RAID Arrays SAN Boot Support Matrix

Linux SLES 9.0 (X64)	VSP		USP-V/VM		USP/NSC	
BIOS	Direct	Switch	Direct	Switch	Direct	Switch
HP 403619-B21	Submit ISR	Submit ISR	Submit ISR	1.26	Submit ISR	1.26
HP 403621-B21	Submit ISR	Submit ISR	3.00a4	3.00a4	Submit ISR	3.00a4
QLogic QLA2460	Submit ISR	Submit ISR	1.29	1.24 1.26 1.29	1.29	1.29
QLogic QLA2462	Submit ISR	Submit ISR	1.29	1.24 1.26 1.29	1.29	1.29
QLogic QLE2460	Submit ISR	Submit ISR	1.29	1.29	1.29	1.29
QLogic QLE2462	Submit ISR	Submit ISR	1.29	1.29	1.29	1.29
Sun SG-XPCI1FC-QF4	Submit ISR	Submit ISR	Submit ISR	1.24 1.26	Submit ISR	Submit ISR
Sun SG-XPCI2FC-QF4	Submit ISR	Submit ISR	Submit ISR	1.24 1.26	Submit ISR	Submit ISR

Linux SLES 10.0 (X64)	VSP		USP-V/VM		USP/NSC	
BIOS	Direct	Switch	Direct	Switch	Direct	Switch
Emulex LP10000	Submit ISR	Submit ISR	Submit ISR	4.12a7	Submit ISR	Submit ISR
Emulex LP11000	Submit ISR	Submit ISR	2.72a2	2.72a2	Submit ISR	2.72a2
Emulex LP11002	Submit ISR	Submit ISR	2.72a2	2.72a2	Submit ISR	2.72a2
Emulex LPe11000	Submit ISR	Submit ISR	1.71a0 2.72a2 4.12a7	1.71a0 2.72a2 4.12a7	1.71a0	1.71a0 2.72a2
Emulex LPe11002	Submit ISR	Submit ISR	1.71a0 2.72a2 4.12a7	1.71a0 2.72a2 4.12a7	1.71a0	1.71a0 2.72a2
Emulex LPe12000	Submit ISR	Submit ISR	Submit ISR	Submit ISR	2.02a2	Submit ISR
Emulex LPe12002	Submit ISR	Submit ISR	Submit ISR	Submit ISR	2.02a2	Submit ISR
HP 403621-B21	Submit ISR	Submit ISR	3.00a4	3.00a4	Submit ISR	3.00a4
HP 403619-B21	Submit ISR	Submit ISR	Submit ISR	1.26	Submit ISR	1.26
IBM 46M6065	Submit ISR	Submit ISR	Submit ISR	2.09	Submit ISR	Submit ISR
QLogic QLA2460	Submit ISR	Submit ISR	1.29	1.24 1.26 1.29	1.29	1.29

HDS RAID Arrays SAN Boot Support Matrix

QLogic QLA2462	Submit ISR	Submit ISR	1.29	1.24 1.26 1.29	1.29	1.29
QLogic QLE2460	Submit ISR	Submit ISR	1.29 2.10	1.29 2.10	1.29	1.29
QLogic QLE2462	Submit ISR	Submit ISR	1.29 2.10	1.29 2.10	1.29	1.29
QLogic QLE2560	Submit ISR	Submit ISR	2.10	2.10	Submit ISR	Submit ISR
QLogic QLE2562	Submit ISR	Submit ISR	2.10	2.10	Submit ISR	Submit ISR
Sun SG-XPCI1FC-QF4	Submit ISR	Submit ISR	Submit ISR	1.24 1.26	Submit ISR	Submit ISR
Sun SG-XPCI2FC-QF4	Submit ISR	Submit ISR	Submit ISR	1.24 1.26	Submit ISR	Submit ISR

Linux SLES 11.0 (X64)	VSP		USP-V/VM		USP/NSC	
BIOS	Direct	Switch	Direct	Switch	Direct	Switch
Emulex LPe11000	Submit ISR	Submit ISR	Submit ISR	5.12a2	Submit ISR	Submit ISR
Emulex LPe11002	Submit ISR	Submit ISR	Submit ISR	5.12a2	Submit ISR	Submit ISR
Sun SG-XPCIEFCGBE-Q8-Z	Submit ISR	Submit ISR	Submit ISR	Submit ISR	Submit ISR	2.02
IBM 44X1940	Submit ISR	2.27	Submit ISR	Submit ISR	Submit ISR	Submit ISR

Novell OES Linux (IA32) HBA Support

OES Linux 10.0 (IA32)	VSP		USP-V/VM		USP/NSC	
BIOS	Direct	Switch	Direct	Switch	Direct	Switch
HP 403619-B21	Submit ISR	Submit ISR	Submit ISR	1.24 1.26	Submit ISR	Submit ISR

Novell OES Linux (X64) HBA Support

OES Linux 10.0 (X64)	VSP		USP-V/VM		USP/NSC	
BIOS	Direct	Switch	Direct	Switch	Direct	Switch
HP 403619-B21	Submit ISR	Submit ISR	Submit ISR	1.24 1.26	Submit ISR	Submit ISR

Novell NetWare HBA Support

NetWare 6.5	VSP		USP-V/VM		USP/NSC	
BIOS	Direct	Switch	Direct	Switch	Direct	Switch

HDS RAID Arrays SAN Boot Support Matrix

HP 403619-B21	Submit ISR	Submit ISR	Submit ISR	1.26 1.29	Submit ISR	Submit ISR
IBM 26R0836	Submit ISR	Submit ISR	Submit ISR	Submit ISR	Submit ISR	1.43
QLogic QLE2460	Submit ISR	Submit ISR	1.29	1.29	Submit ISR	Submit ISR
QLogic QLE2462	Submit ISR	Submit ISR	1.29	1.29	Submit ISR	Submit ISR
Sun SG-XPCIE1FC-QF4	Submit ISR	Submit ISR	1.29	1.29	Submit ISR	Submit ISR
Sun SG-XPCIE2FC-QF4	Submit ISR	Submit ISR	1.29	1.29	Submit ISR	Submit ISR

HP OpenVMS (Alpha) HBA Support

HP OpenVMS 8.2 (Alpha)	VSP		USP-V/M		USP/NSC	
FW / FCODE	Direct	Switch	Direct	Switch	Direct	Switch
HP FCA2354	Submit ISR	3.93a0	N/A	3.92a2 3.93a0	N/A	3.92a2 3.93a0
HP FCA2384	Submit ISR	Submit ISR	N/A	1.91x1 1.91x6	N/A	1.91x1 1.91x6
HP FCA2684	Submit ISR	Submit ISR	N/A	1.91x1 1.91x6	N/A	1.91x1 1.91x6
HP FCA2684DC	Submit ISR	Submit ISR	N/A	1.91x1 1.91x6	N/A	1.91x1 1.91x6

HP OpenVMS 8.3 (Alpha)	VSP		USP-V/M		USP/NSC	
FW / FCODE	Direct	Switch	Direct	Switch	Direct	Switch
HP FCA2354	Submit ISR	Submit ISR	N/A	3.92a2 3.93a0	N/A	3.92a2 3.93a0
HP FCA2384	Submit ISR	Submit ISR	N/A	1.91x1 1.91x6	N/A	1.91x1 1.91x6
HP FCA2684	Submit ISR	Submit ISR	N/A	1.91x1 1.91x6	N/A	1.91x1 1.91x6
HP FCA2684DC	Submit ISR	Submit ISR	N/A	1.91x1 1.91x6	N/A	1.91x1 1.91x6

HP OpenVMS 8.4 (Alpha)	VSP		USP-V/M		USP/NSC	
FW / FCODE	Direct	Switch	Direct	Switch	Direct	Switch
HP FCA2354	Submit ISR	3.93a0	N/A	Submit ISR	N/A	Submit ISR
HP FCA2384	Submit ISR	1.91x6	N/A	Submit ISR	N/A	Submit ISR
HP FCA2684	Submit ISR	1.91x6	N/A	Submit ISR	N/A	Submit ISR

HDS RAID Arrays SAN Boot Support Matrix
HP OpenVMS (IA64) HBA Support

HP OpenVMS 8.2 (IA64)	VSP		USP-V/VM		USP/NSC	
EFI	Direct	Switch	Direct	Switch	Direct	Switch
HP A6826A	Submit ISR	Submit ISR	N/A	Submit ISR	N/A	1.47
HP A9782A	Submit ISR	Submit ISR	N/A	Submit ISR	N/A	1.47
HP A9784A	Submit ISR	Submit ISR	N/A	Submit ISR	N/A	1.47
HP AB465A	Submit ISR	Submit ISR	N/A	Submit ISR	N/A	1.47

HP OpenVMS 8.3 (IA64)	VSP		USP-V/VM		USP/NSC	
EFI	Direct	Switch	Direct	Switch	Direct	Switch
HP 403619-B21	Submit ISR	Submit ISR	N/A	1.09	N/A	1.09
HP A6826A	Submit ISR	Submit ISR	N/A	1.5	N/A	1.49 1.50
HP A9782A	Submit ISR	Submit ISR	N/A	1.5	N/A	1.47 1.50
HP A9784A	Submit ISR	Submit ISR	N/A	1.5	N/A	1.47 1.50
HP AB378A	Submit ISR	Submit ISR	N/A	1.09	N/A	1.09
HP AB378B	Submit ISR	Submit ISR	N/A	1.09	N/A	1.09
HP AB379A	Submit ISR	Submit ISR	N/A	1.09	N/A	1.09
HP AB379B	Submit ISR	Submit ISR	N/A	1.09	N/A	1.09
HP AB465A	Submit ISR	Submit ISR	N/A	1.5	N/A	1.47 1.50
HP AD193A	Submit ISR	Submit ISR	N/A	1.09	N/A	1.09
HP AD194A	Submit ISR	Submit ISR	N/A	1.09	N/A	1.09
HP AD300A	Submit ISR	Submit ISR	N/A	1.09	N/A	1.09

HP OpenVMS 8.3-1H1 (IA64)	VSP		USP-V/VM		USP/NSC	
EFI	Direct	Switch	Direct	Switch	Direct	Switch
HP 403619-B21	Submit ISR	2.20	N/A	Submit ISR	N/A	Submit ISR

HP OpenVMS 8.4 (IA64)	VSP		USP-V/VM		USP/NSC	
EFI	Direct	Switch	Direct	Switch	Direct	Switch
HP 451871-B21	Submit ISR	2.20	N/A	Submit ISR	N/A	Submit ISR

HDS RAID Arrays SAN Boot Support Matrix

HP AH401A	Submit ISR	2.20	N/A	Submit ISR	N/A	Submit ISR
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Sun Solaris (SPARC) HBA Support

Sun Solaris 9	VSP		USP-V/VM		USP/NSC	
FW / FCODE	Direct	Switch	Direct	Switch	Direct	Switch
Emulex LP10000	Submit ISR	Submit ISR	1.50a4 1.50a9 3.00a2 3.10a3	1.50a4 1.50a9 3.00a2 3.10a3	1.50a4	1.50a4 1.50a9 1.90a4
Emulex LP10000DC	Submit ISR	Submit ISR	1.50a4 1.50a9 3.00a2 3.10a3	1.50a4 1.50a9 3.00a2 3.10a3	1.50a4	1.50a4 1.50a9 1.90a4
Emulex LP11000	Submit ISR	Submit ISR	1.50a9 3.00a2	1.50a9 3.00a2	Submit ISR	1.50a9
Emulex LP11002	Submit ISR	Submit ISR	1.50a9 3.00a2	1.50a9 3.00a2	Submit ISR	1.50a9
Emulex LP9002L	Submit ISR	Submit ISR	Submit ISR	1.50a9	Submit ISR	Submit ISR
QLogic QLA2340	Submit ISR	Submit ISR	1.17	1.16 1.17	1.17	1.17
QLogic QLA2342	Submit ISR	Submit ISR	1.17	1.16 1.17	1.17	1.17
QLogic QLA2460	Submit ISR	Submit ISR	1.24 1.27 2.00	1.24 1.26 1.27 2.00	Submit ISR	Submit ISR
QLogic QLA2462	Submit ISR	Submit ISR	1.24 1.26 1.27 2.00	1.24 1.26 1.27 2.00	Submit ISR	Submit ISR
Sun SG-XPCI1FC-EM2	Submit ISR	Submit ISR	1.50a4 1.50a9 3.00a2	1.50a4 1.50a9 3.00a2	1.50a4	1.50a4 1.50a9 1.90a4
Sun SG-XPCI1FC-EM4-Z	Submit ISR	Submit ISR	1.50a9 3.00a2	1.50a9 3.00a2	Submit ISR	1.50a8 1.50a9
Sun SG-XPCI1FC-QF4	Submit ISR	Submit ISR	1.24 1.27 2.00	1.24 1.26 1.27 2.00	Submit ISR	Submit ISR
Sun SG-XPCI1FC-QL2	Submit ISR	Submit ISR	1.17	1.16 1.17	1.17	1.17
Sun SG-XPCI2FC-EM2	Submit ISR	Submit ISR	1.50a4 1.50a9 3.00a2	1.50a4 1.50a9 3.00a2	1.50a4	1.50a4 1.50a9 1.90a4

HDS RAID Arrays SAN Boot Support Matrix

Sun SG-XPCI2FC-EM4-Z	Submit ISR	Submit ISR	1.50a9 3.00a2	1.50a9 3.00a2	Submit ISR	1.50a8 1.50a9
Sun SG-XPCI2FC-QF2-Z	Submit ISR	Submit ISR	1.17	1.16 1.17	1.17	1.17
Sun SG-XPCI2FC-QF4	Submit ISR	Submit ISR	1.24 1.26 1.27 2.00	1.24 1.26 1.27 2.00	Submit ISR	Submit ISR

Sun Solaris 10 (SPARC)	VSP		USP-V/M		USP/NSC	
FW / FCODE	Direct	Switch	Direct	Switch	Direct	Switch
Emulex LP10000	Submit ISR	Submit ISR	1.50a4 1.50a9 3.00a2 3.01a1 3.10a3	1.50a4 1.50a9 3.00a2 3.01a1 3.10a3	1.50a4	1.50a4 1.50a9 1.90a4 1.92a1
Emulex LP10000DC	Submit ISR	Submit ISR	1.50a4 1.50a9 3.00a2 3.01a1 3.10a3	1.50a4 1.50a9 3.00a2 3.01a1 3.10a3	1.50a4	1.50a4 1.50a9 1.90a4 1.92a1
Emulex LP11000	Submit ISR	Submit ISR	1.50a9 3.00a2 3.01a1	1.50a9 3.00a2 3.01a1	Submit ISR	1.50a9
Emulex LP11002	Submit ISR	Submit ISR	1.50a9 3.00a2 3.01a1	1.50a9 3.00a2 3.01a1	Submit ISR	1.50a9
Emulex LP9002L	Submit ISR	Submit ISR	3.01a1	3.01a1	Submit ISR	Submit ISR
Emulex LPe11000	Submit ISR	3.10a3	1.50a9 3.00a2 3.01a1 3.10a3	1.50a9 3.00a2 3.01a1 3.10a3	3.01a1	1.50a9 3.01a1
Emulex LPe11002	Submit ISR	3.10a3	1.50a9 3.00a2 3.01a1 3.10a3	1.50a9 3.00a2 3.01a1 3.10a3	3.01a1	1.50a9 3.01a1
Emulex LPe12000	Submit ISR	3.10a3	3.01a1 3.10a3	3.01a1 3.10a3	3.10a3	3.10a3
Emulex LPe12002	Submit ISR	3.10a3	3.01a1 3.10a3	3.01a1 3.10a3	3.10a3	3.10a3
QLogic QLA2340	Submit ISR	Submit ISR	1.17	1.16 1.17	1.17	1.17
QLogic QLA2342	Submit ISR	Submit ISR	1.17	1.16 1.17	1.17	1.17

HDS RAID Arrays SAN Boot Support Matrix

QLogic QLA2460	Submit ISR	3.15	1.24 1.26 1.27 2.00	1.24 1.26 1.27 2.00 3.15	Submit ISR	Submit ISR
QLogic QLA2462	Submit ISR	3.15	1.24 1.26 1.27 2.00	1.24 1.26 1.27 2.00 3.15	Submit ISR	Submit ISR
QLogic QLE2460	Submit ISR	2.02	1.24 1.26 1.27 2.00	1.24 1.26 1.27 2.00	1.26 2.00	1.26 2.00
QLogic QLE2462	Submit ISR	2.02	1.24 1.26 1.27 2.00	1.24 1.26 1.27 2.00	1.26 2.00	1.26 2.00
QLogic QLE2560	Submit ISR	Submit ISR	2.00	2.00	2.00 2.01	2.00 2.01
QLogic QLE2562	Submit ISR	Submit ISR	2.00	2.00	2.00 2.01	2.00 2.01
Sun SG-XPCI1FC-EM2	Submit ISR	Submit ISR	1.50a4 1.50a9 3.00a2 3.10a3	1.50a4 1.50a9 3.00a2 3.10a3	1.50a4	1.50a4 1.50a9 1.90a4
Sun SG-XPCI2FC-EM2	Submit ISR	Submit ISR	1.50a4 1.50a9 3.00a2 3.10a3	1.50a4 1.50a9 3.00a2 3.10a3	1.50a4	1.50a4 1.50a9 1.90a4
Sun SG-XPCI1FC-EM4-Z	Submit ISR	2.82a4	1.50a9 3.00a2 3.01a1	1.50a9 3.00a2 3.01a1	3.01a1	1.50a8 1.50a9 3.01a1
Sun SG-XPCI2FC-EM4-Z	Submit ISR	2.82a4	1.50a9 3.00a2 3.01a1	1.50a9 3.00a2 3.01a1	3.01a1	1.50a8 1.50a9 3.01a1
Sun SG-XPCIE1FC-EM4	Submit ISR	Submit ISR	1.50a9 3.00a2 3.01a1	1.50a9 3.00a2 3.01a1	3.01a1	1.50a9 3.01a1
Sun SG-XPCIE2FC-EM4	Submit ISR	Submit ISR	1.50a9 3.00a2 3.01a1	1.50a9 3.00a2 3.01a1	3.01a1	1.50a9 3.01a1
Sun SG-XPCI1FC-QL2	Submit ISR	Submit ISR	1.17	1.16 1.17	1.17	1.17
Sun SG-XPCI2FC-QF2-Z	Submit ISR	Submit ISR	1.17	1.16 1.17	1.17	1.17

HDS RAID Arrays SAN Boot Support Matrix

Sun SG-XPCI1FC-QF4	2.10	Submit ISR	1.24 1.26 1.27 2.00	1.24 1.26 1.27 2.00	2.00	2.00
Sun SG-XPCI2FC-QF4	2.10	Submit ISR	1.24 1.26 1.27 2.00	1.24 1.26 1.27 2.00	2.00	2.00
Sun SG-XPCIE1FC-QF4	2.10	1.29 2.01	1.24 1.26 1.27 2.00 2.01	1.24 1.26 1.27 2.00 2.01	1.26 2.01	1.26 2.01
Sun SG-XPCIE2FC-QF4	2.10	1.29 2.01	1.24 1.26 1.27 2.00 2.01	1.24 1.26 1.27 2.00 2.01	1.26 2.01	1.26 2.01
Sun SG-XPCIE1FC-QF8-Z	Submit ISR	2.03 2.04	Submit ISR	2.04	Submit ISR	Submit ISR
Sun SG-XPCIE2FC-QF8-Z	Submit ISR	2.04	Submit ISR	2.04	Submit ISR	Submit ISR
Sun SG-XPCIEFCGBE-Q8-N	Submit ISR	2.04 3.15	Submit ISR	2.04 3.15	Submit ISR	Submit ISR

Sun Solaris (X64) HBA Support

Sun Solaris 10 (X64)	VSP		USP-V/VM		USP/NSC	
	Direct	Switch	Direct	Switch	Direct	Switch
Emulex LP10000	Submit ISR	Submit ISR	2.00a1	2.00a1	Submit ISR	Submit ISR
Emulex LP10000DC	Submit ISR	Submit ISR	2.00a1	2.00a1	Submit ISR	Submit ISR
Emulex LP11000	Submit ISR	Submit ISR	2.00a1	2.00a1	Submit ISR	Submit ISR
Emulex LP11002	Submit ISR	Submit ISR	2.00a1	2.00a1	Submit ISR	Submit ISR
Emulex LPe11000	Submit ISR	Submit ISR	2.00a1 2.01a2 5.02a1	2.00a1 2.01a2 5.02a1	2.01a2 5.03a4	2.01a2 5.03a4
Emulex LPe11002	Submit ISR	Submit ISR	2.00a1 2.01a2 5.02a1	2.00a1 2.01a2 5.02a1	2.01a2 5.03a4	2.01a2 5.03a4
Emulex LPe12000	Submit ISR	Submit ISR	5.03a0	5.03a0	Submit ISR	Submit ISR
Emulex LPe12002	Submit ISR	Submit ISR	5.03a0	5.03a0	Submit ISR	Submit ISR

HDS RAID Arrays SAN Boot Support Matrix

QLogic QLA2340	Submit ISR	Submit ISR	1.54	1.54	Submit ISR	Submit ISR
QLogic QLA2342	Submit ISR	Submit ISR	1.54	1.54	Submit ISR	Submit ISR
QLogic QLA2460	Submit ISR	Submit ISR	2.02	2.02	1.26	1.26
QLogic QLA2462	Submit ISR	Submit ISR	2.02	2.02	1.26	1.26
QLogic QLE2460	Submit ISR	Submit ISR	1.29 2.02	1.29 2.02	1.26	1.26
QLogic QLE2462	Submit ISR	Submit ISR	1.29 2.02	1.29 2.02	1.26	1.26
Sun SG-XPCI1FC-EM2	Submit ISR	Submit ISR	2.00a1	2.00a1	Submit ISR	Submit ISR
Sun SG-XPCI2FC-EM2	Submit ISR	Submit ISR	2.00a1	2.00a1	Submit ISR	Submit ISR
Sun SG-XPCI1FC-EM4-Z	Submit ISR	5.01a9	2.00a1	2.00a1	Submit ISR	Submit ISR
Sun SG-XPCI2FC-EM4-Z	Submit ISR	5.01a9	2.00a1	2.00a1	Submit ISR	Submit ISR
Sun SG-XPCIE1FC-EM4	Submit ISR	Submit ISR	2.00a1 2.01a2	2.00a1 2.01a2	2.01a2	2.01a2
Sun SG-XPCIE2FC-EM4	Submit ISR	Submit ISR	2.00a1 2.01a2	2.00a1 2.01a2	2.01a2	2.01a2
Sun SG-XPCI1FC-QL2	Submit ISR	Submit ISR	1.54	1.54	Submit ISR	Submit ISR
Sun SG-XPCI2FC-QF2-Z	Submit ISR	Submit ISR	1.54	1.54	Submit ISR	Submit ISR
Sun SG-XPCI1FC-QF4	2.10	1.04	2.02	2.02	1.26	1.26
Sun SG-XPCI2FC-QF4	2.10	1.04	2.02	2.02	1.26	1.26
Sun SG-XPCIE1FC-QF4	3.15	3.15	1.29 2.02 2.10 3.15	1.29 2.02 2.10 3.15	1.26 2.10	1.26 2.10
Sun SG-XPCIE2FC-QF4	3.15	3.15	1.29 2.02 2.10 3.15	1.29 2.02 2.10 3.15	1.26 2.10	1.26 2.10
Sun SG-XPCIEFCGBE-Q8-Z	2.10	Submit ISR	Submit ISR	Submit ISR	Submit ISR	Submit ISR
Sun SG-XPCIEFCGBE-Q8-N	Submit ISR	3.00	Submit ISR	3.00	Submit ISR	Submit ISR

HP Tru64 HBA Support

HP Tru64 5.1B FW / FCODE	VSP		USP-V/M		USP/NSC	
	Direct	Switch	Direct	Switch	Direct	Switch

HDS RAID Arrays SAN Boot Support Matrix

HP FCA2354	Submit ISR	3.93a0	N/A	3.93a0	N/A	3.93a0
HP FCA2384	Submit ISR	Submit ISR	N/A	1.91x6	N/A	1.91a6 1.91x6
HP FCA2684	Submit ISR	1.91x6	N/A	1.91x6	N/A	1.91a6 1.91x6
HP FCA2684DC	Submit ISR	Submit ISR	N/A	1.91x6	N/A	1.91a6 1.91x6

IBM VIOS HBA Support

IBM VIOS 1.x	VSP		USP-V/M		USP/NSC	
FW / FCODE	Direct	Switch	Direct	Switch	Direct	Switch
IBM 41Y8527	Submit ISR	Submit ISR	Submit ISR	1.24 2.00	Submit ISR	1.24
IBM 5716	Submit ISR	Submit ISR	1.91a5	1.90a4 1.90x13 1.91a5	1.90a4 1.91a5	1.90a4 1.91a5
IBM 5758	Submit ISR	2.71x4 2.71x10	2.10x8	2.10x8	2.10x5	2.10x5 2.10x8
IBM 5759	Submit ISR	2.71x4 2.71x10	2.10x8	2.10x8	2.10x5	2.10x5 2.10x8
IBM 5773	Submit ISR	Submit ISR	2.71a2	2.71a2	Submit ISR	2.71a2
IBM 5774	Submit ISR	Submit ISR	2.71a2	2.71a2	Submit ISR	2.71a2
IBM 6228	Submit ISR	Submit ISR	3.93a0	3.93a0	Submit ISR	3.91a1 3.93a0
IBM 6239	Submit ISR	Submit ISR	1.92a1	1.92a1	1.81x1	1.00x5 1.81x1

IBM VIOS 2.x	VSP		USP-V/M		USP/NSC	
FW / FCODE	Direct	Switch	Direct	Switch	Direct	Switch
IBM 5716	1.91a5	1.91a5	1.91a5	1.91a5	1.91a5	1.91a5
IBM 5735	Not supported	1.11x4	Not supported	1.11x4 1.91a5 111304	Not supported	Submit ISR
IBM 5758	Submit ISR	2.71x4 2.71x10	2.10x8	2.10x8 2.71x4 2.71x10	2.10x5	2.10x5 2.10x8 2.71x4 2.71x10
IBM 5759	Submit ISR	2.71x4 2.71x10	2.10x8	2.10x8 2.71x4 2.71x10	2.10x5	2.10x5 2.10x8 2.71x4 2.71x10
IBM 5774	Submit ISR	2.71a2	Submit ISR	2.71x15	Submit ISR	Submit ISR

HDS RAID Arrays SAN Boot Support Matrix

IBM 6228	Submit ISR	Submit ISR	3.93a0	3.93a0	Submit ISR	3.91a1 3.93a0
IBM 6239	Submit ISR	1.92a1	1.92a1	1.92a1	1.81x1 1.92a1	1.00x5 1.81x1 1.92a1

VMWare ESX (IA32) HBA Support

VMWare ESX 3.5 (IA32)	VSP		USP-V/M		USP/NSC	
BIOS	Direct	Switch	Direct	Switch	Direct	Switch
Emulex LP10000	Submit ISR	Submit ISR	Submit ISR	1.70a3	Submit ISR	1.70a3
Emulex LP10000DC	Submit ISR	Submit ISR	Submit ISR	1.70a3	Submit ISR	1.70a3
Emulex LP11000	Submit ISR	Submit ISR	Submit ISR	1.71a0 1.71a3 1.91a5	Submit ISR	1.71a0
Emulex LP11002	Submit ISR	Submit ISR	Submit ISR	1.71a0 1.71a3 1.91a5	Submit ISR	1.71a0
Emulex LP9002DC	Submit ISR	Submit ISR	Submit ISR	1.70a3 1.71a0	Submit ISR	1.71a0
Emulex LP9002L	Submit ISR	Submit ISR	Submit ISR	1.70a3 1.71a0	Submit ISR	1.71a0
Emulex LP9802	Submit ISR	Submit ISR	Submit ISR	1.70a3 1.71a0	Submit ISR	1.70a3 1.71a0
Emulex LP9802DC	Submit ISR	Submit ISR	Submit ISR	1.70a3 1.71a0	Submit ISR	1.70a3 1.71a0
Emulex LPe11000	Submit ISR	Submit ISR	Submit ISR	1.70a3 1.71a0 2.72a2 3.00a4	Submit ISR	1.71a0
Emulex LPe11002	Submit ISR	Submit ISR	Submit ISR	1.70a3 1.71a0 2.72a2 3.00a4	Submit ISR	1.71a0
Emulex LPe12000	Submit ISR	Submit ISR	Submit ISR	Submit ISR	2.01a2	Submit ISR
Emulex LPe12002	Submit ISR	Submit ISR	Submit ISR	Submit ISR	2.01a2	Submit ISR
HP 403619-B21	Submit ISR	Submit ISR	Submit ISR	1.16 1.26	Submit ISR	1.26 2.04
HP 403621-B21	Submit ISR	Submit ISR	Submit ISR	1.70a3 3.00a4	Submit ISR	3.00a4
IBM 26K4841	Submit ISR	Submit ISR	Submit ISR	1.47	Submit ISR	Submit ISR
QLogic QLA2340	Submit ISR	Submit ISR	Submit ISR	1.45 1.47	Submit ISR	1.43 1.45

HDS RAID Arrays SAN Boot Support Matrix

QLogic QLA2342	Submit ISR	Submit ISR	Submit ISR	1.45 1.47	Submit ISR	1.43 1.45
QLogic QLA2460	Submit ISR	Submit ISR	Submit ISR	1.04 1.29	Submit ISR	1.29
QLogic QLA2462	Submit ISR	Submit ISR	Submit ISR	1.04 1.29	Submit ISR	1.29
QLogic QLE2460	Submit ISR	Submit ISR	1.04 1.29	1.16 1.26	Submit ISR	1.26 2.10
QLogic QLE2462	Submit ISR	Submit ISR	1.04 1.29	1.16 1.26	Submit ISR	1.26 2.10
QLogic QLE2560	Submit ISR	Submit ISR	Submit ISR	Submit ISR	Submit ISR	2.00
QLogic QLE2562	Submit ISR	Submit ISR	Submit ISR	Submit ISR	Submit ISR	2.00
Sun SG-XPCI1FC-EM2	Submit ISR	Submit ISR	Submit ISR	1.70a3	Submit ISR	1.70a3
Sun SG-XPCI1FC-EM4-Z	Submit ISR	Submit ISR	Submit ISR	1.71a0 1.71a3 1.91a5	Submit ISR	1.71a0
Sun SG-XPCI1FC-QF4	Submit ISR	Submit ISR	Submit ISR	1.04	Submit ISR	Submit ISR
Sun SG-XPCI1FC-QL2	Submit ISR	Submit ISR	Submit ISR	1.45 1.47	Submit ISR	1.43 1.45
Sun SG-XPCI2FC-EM2	Submit ISR	Submit ISR	Submit ISR	1.70a3	Submit ISR	1.70a3
Sun SG-XPCI2FC-EM4-Z	Submit ISR	Submit ISR	Submit ISR	1.71a0 1.71a3 1.91a5	Submit ISR	1.71a0
Sun SG-XPCI2FC-QF2-Z	Submit ISR	Submit ISR	Submit ISR	1.45 1.47	Submit ISR	1.43 1.45
Sun SG-XPCI2FC-QF4	Submit ISR	Submit ISR	Submit ISR	1.04	Submit ISR	Submit ISR
Sun SG-XPCIE1FC-EM4	Submit ISR	Submit ISR	Submit ISR	1.70a3 3.00a4	Submit ISR	1.71a0
Sun SG-XPCIE1FC-QF4	Submit ISR	Submit ISR	Submit ISR	1.16 1.26	Submit ISR	1.26
Sun SG-XPCIE2FC-EM4	Submit ISR	Submit ISR	Submit ISR	1.70a3 3.00a4	Submit ISR	1.71a0
Sun SG-XPCIE2FC-QF4	Submit ISR	Submit ISR	Submit ISR	1.16 1.26	Submit ISR	1.26

VMWare ESX 4.X (IA32)	VSP		USP-V/M		USP/NSC	
BIOS	Direct	Switch	Direct	Switch	Direct	Switch
Emulex LP11000	Submit ISR	Submit ISR	2.72a2	2.72a2	2.72a2	2.72a2
Emulex LP11002	Submit ISR	Submit ISR	2.72a2	2.72a2	2.72a2	2.72a2

HDS RAID Arrays SAN Boot Support Matrix

Emulex LPe11000	Submit ISR	Submit ISR	2.02a1 2.72a2	2.02a1 2.02a2 2.72a2	2.01a2 2.02a2 2.72a2	2.01a2 2.72a2
Emulex LPe11002	Submit ISR	Submit ISR	2.02a1 2.72a2	2.02a1 2.02a2 2.72a2	2.01a2 2.02a2 2.72a2	2.01a2 2.72a2
Emulex LPe12000	Submit ISR	Submit ISR	1.10a5	1.10a5 2.01a2 2.02a1 3.03a11	Submit ISR	Submit ISR
Emulex LPe12002	Submit ISR	Submit ISR	1.10a5	1.10a5 2.01a2 2.02a1 3.03a11	Submit ISR	Submit ISR
HP 403621-B21	Submit ISR	Submit ISR	Submit ISR	6.03a11	Submit ISR	Submit ISR
QLogic QLA2460	Submit ISR	Submit ISR	1.27	1.27	1.27	1.27
QLogic QLA2462	Submit ISR	Submit ISR	1.27	1.27	1.27	1.27
QLogic QLE2460	Submit ISR	Submit ISR	1.08 2.10	1.08 2.10	1.08	1.04 1.08
QLogic QLE2462	Submit ISR	Submit ISR	1.08 2.10	1.08 2.10	1.08	1.04 1.08
QLogic QLE2560	Submit ISR	Submit ISR	2.00 2.02 2.10	2.00 2.02	Submit ISR	2.02
QLogic QLE2562	Submit ISR	Submit ISR	2.00 2.02 2.10	2.00 2.02	Submit ISR	2.02

VMWare ESX (X64) HBA Support

VMWare ESX 3.5 (X64)	VSP		USP-V/VM		USP/NSC	
	Direct	Switch	Direct	Switch	Direct	Switch
Emulex LP10000	Submit ISR	Submit ISR	Submit ISR	1.70a3	Submit ISR	1.70a3
Emulex LP10000DC	Submit ISR	Submit ISR	Submit ISR	1.70a3	Submit ISR	1.70a3
Emulex LP11000	Submit ISR	Submit ISR	Submit ISR	1.71a0 1.71a3	Submit ISR	1.71a0
Emulex LP11002	Submit ISR	Submit ISR	Submit ISR	1.71a0 1.71a3	Submit ISR	1.71a0
Emulex LP9002DC	Submit ISR	Submit ISR	Submit ISR	1.70a3 1.71a0	Submit ISR	1.71a0
Emulex LP9002L	Submit ISR	Submit ISR	Submit ISR	1.70a3 1.71a0	Submit ISR	1.71a0

HDS RAID Arrays SAN Boot Support Matrix

Emulex LP9802	Submit ISR	Submit ISR	Submit ISR	1.70a3 1.71a0	Submit ISR	1.70a3 1.71a0
Emulex LP9802DC	Submit ISR	Submit ISR	Submit ISR	1.70a3 1.71a0	Submit ISR	1.70a3 1.71a0
Emulex LPe11000	Submit ISR	Submit ISR	Submit ISR	1.70a3 1.71a0 2.72a2 3.00a4	Submit ISR	1.71a0
Emulex LPe11002	Submit ISR	Submit ISR	Submit ISR	1.70a3 1.71a0 2.72a2 3.00a4	Submit ISR	1.71a0
Emulex LPe12000	Submit ISR	Submit ISR	Submit ISR	Submit ISR	2.01a2	Submit ISR
Emulex LPe12002	Submit ISR	Submit ISR	Submit ISR	Submit ISR	2.01a2	Submit ISR
HP 403619-B21	Submit ISR	Submit ISR	Submit ISR	1.16 1.26 1.29 2.04	Submit ISR	1.26 1.29 2.04
HP 403621-B21	Submit ISR	Submit ISR	Submit ISR	1.70a3 3.00a4	Submit ISR	3.00a4
QLogic QLA2340	Submit ISR	Submit ISR	Submit ISR	1.45 1.47 2.04	Submit ISR	1.45 2.04
QLogic QLA2342	Submit ISR	Submit ISR	Submit ISR	1.45 1.47 2.04	Submit ISR	1.45 2.04
QLogic QLE2460	Submit ISR	Submit ISR	1.04 1.29	1.16 1.26 1.29	Submit ISR	1.26 1.29 2.10
QLogic QLE2462	Submit ISR	Submit ISR	1.04 1.29	1.16 1.26 1.29	Submit ISR	1.26 1.29 2.10
QLogic QLE2560	Submit ISR	Submit ISR	1.04 1.29	Submit ISR	Submit ISR	2.00
QLogic QLE2562	Submit ISR	Submit ISR	1.04 1.29	Submit ISR	Submit ISR	2.00
Sun SG-XPCI1FC-EM2	Submit ISR	Submit ISR	Submit ISR	1.70a3	Submit ISR	1.70a3
Sun SG-XPCI1FC-EM4-Z	Submit ISR	Submit ISR	Submit ISR	1.71a0 1.71a3	Submit ISR	1.71a0
Sun SG-XPCI1FC-QL2	Submit ISR	Submit ISR	Submit ISR	1.45 1.47	Submit ISR	1.45
Sun SG-XPCI2FC-EM2	Submit ISR	Submit ISR	Submit ISR	1.70a3	Submit ISR	1.70a3
Sun SG-XPCI2FC-EM4-Z	Submit ISR	Submit ISR	Submit ISR	1.71a0 1.71a3	Submit ISR	1.71a0

HDS RAID Arrays SAN Boot Support Matrix

Sun SG-XPCI2FC-QF2-Z	Submit ISR	Submit ISR	Submit ISR	1.45 1.47	Submit ISR	1.45
Sun SG-XPCIE1FC-EM4	Submit ISR	Submit ISR	Submit ISR	1.70a3 3.00a4	Submit ISR	1.71a0
Sun SG-XPCIE1FC-QF4	Submit ISR	Submit ISR	Submit ISR	1.16 1.26 1.29	Submit ISR	1.26 1.29
Sun SG-XPCIE2FC-EM4	Submit ISR	Submit ISR	Submit ISR	1.70a3 3.00a4	Submit ISR	1.71a0
Sun SG-XPCIE2FC-QF4	Submit ISR	Submit ISR	Submit ISR	1.16 1.26 1.29	Submit ISR	1.26 1.29

VMWare ESX 4.X (X64)	VSP		USP-V/VM		USP/NSC	
BIOS	Direct	Switch	Direct	Switch	Direct	Switch
Emulex LP11000	Submit ISR	2.02a2	2.72a2	2.72a2 2.82a4	2.72a2	2.72a2
Emulex LP11002	Submit ISR	2.02a2	2.72a2	2.72a2 2.82a4	2.72a2	2.72a2
Emulex LPe11000	2.00a1	2.00a1 2.02a2	2.02a1 2.72a2	2.02a1 2.02a2 2.72a2 2.82a4	2.01a2 2.02a2 2.72a2	2.01a2 2.72a2
Emulex LPe11002	2.00a1	2.00a1 2.02a2	2.02a1 2.72a2	2.02a1 2.02a2 2.72a2 2.82a4	2.01a2 2.02a2 2.72a2	2.01a2 2.72a2
Emulex LPe12000	Submit ISR	Submit ISR	1.10a5	1.10a5 2.01a2 2.02a1 3.03a11	Submit ISR	Submit ISR
Emulex LPe12002	Submit ISR	Submit ISR	1.10a5	1.10a5 2.01a2 2.02a1 3.03a11	Submit ISR	Submit ISR
Hitachi HFC0401/0402	Submit ISR	10.00.03.07	Submit ISR	Submit ISR	Submit ISR	Submit ISR
Hitachi HFCE0802	Submit ISR	10.00.04.03	Submit ISR	Submit ISR	Submit ISR	Submit ISR
HP 381881-B21	Submit ISR	Submit ISR	Submit ISR	1.47	Submit ISR	Submit ISR
HP 403619-B21	Submit ISR	Submit ISR	Submit ISR	1.26 2.04	Submit ISR	2.04
HP 403619-B21	Submit ISR	6.03a11	Submit ISR	Submit ISR	Submit ISR	Submit ISR
IBM 26R0836	Submit ISR	Submit ISR	Submit ISR	Submit ISR	1.47	1.47
IBM 26R0886	Submit ISR	Submit ISR	Submit ISR	Submit ISR	2.04	2.04

HDS RAID Arrays SAN Boot Support Matrix

IBM 44X1940	Submit ISR	2.09	Submit ISR	Submit ISR	Submit ISR	2.09
IBM 46M6065	Submit ISR	2.09	Submit ISR	Submit ISR	Submit ISR	Submit ISR
QLogic QLA2340	Submit ISR	Submit ISR	Submit ISR	2.04	Submit ISR	2.04
QLogic QLA2342	Submit ISR	Submit ISR	Submit ISR	2.04	Submit ISR	2.04
QLogic QLA2460	Submit ISR	Submit ISR	1.27	1.27	1.27	1.27
QLogic QLA2462	Submit ISR	Submit ISR	1.27	1.27	1.27	1.27
QLogic QLE2460	Submit ISR	Submit ISR	1.08 2.10	1.08	1.08	1.08
QLogic QLE2462	Submit ISR	Submit ISR	1.08 2.10	1.08	1.08	1.08
QLogic QLE2560	Submit ISR	2.02 2.15	2.00 2.02	2.02	Submit ISR	2.02
QLogic QLE2562	Submit ISR	2.02 2.15	2.00 2.02	2.02	Submit ISR	2.02

VMWare ESX 5.X (X64)	VSP		USP-V/VM		USP/NSC	
BIOS	Direct	Switch	Direct	Switch	Direct	Switch
Emulex LPe12000	Submit ISR	Submit ISR	Submit ISR	Submit ISR	Submit ISR	2.02a2
Emulex LPe12002	Submit ISR	Submit ISR	Submit ISR	Submit ISR	Submit ISR	2.02a2
Hitachi HFC0401/0402	Submit ISR	10.00.03.07	Submit ISR	Submit ISR	Submit ISR	Submit ISR
Hitachi HFCE0802	Submit ISR	10.00.04.03	Submit ISR	Submit ISR	Submit ISR	Submit ISR
QLogic QLE2560	Submit ISR	Submit ISR	3.00	3.00	2.02	2.02
QLogic QLE2562	Submit ISR	Submit ISR	3.00	3.00	2.02	2.02

Microsoft Windows (IA32) HBA Support

Microsoft Windows 2003 (IA32)	VSP		USP-V/VM		USP/NSC	
BIOS	Direct	Switch	Direct	Switch	Direct	Switch
Brocade 825	Submit ISR	Submit ISR	Submit ISR	1.1.0.6 2.3.0.0	Submit ISR	Submit ISR
Emulex LP10000	Submit ISR	5.12a2	1.70a3 1.71a0	1.70a1 1.70a3 1.71a0	2.01a2 2.02a2	1.70a1 1.71a0

HDS RAID Arrays SAN Boot Support Matrix

Emulex LP1000DC	Submit ISR	5.12a2	1.70a3 1.71a0	1.70a1 1.70a3 1.71a0	2.01a2 2.02a2	1.70a1 1.71a0
Emulex LP11000	Submit ISR	2.12a6 5.12a2	1.70a3 1.71a0	1.70a3 1.71a0	2.01a2 2.02a2	1.71a0
Emulex LP11002	Submit ISR	2.12a6 5.12a2	1.70a3 1.71a0	1.70a3 1.71a0	2.01a2 2.02a2	1.71a0
Emulex LP9002DC	Submit ISR	Submit ISR	1.70a1 1.70a3	1.70a1 1.70a3	Submit ISR	Submit ISR
Emulex LP9002L	Submit ISR	Submit ISR	1.70a1 1.70a3	1.70a1 1.70a3	Submit ISR	Submit ISR
Emulex LP9802	Submit ISR	Submit ISR	1.70a3 1.71a0	1.70a3 1.71a0	Submit ISR	1.90a4
Emulex LP9802DC	Submit ISR	Submit ISR	1.70a3 1.71a0	1.70a3 1.71a0	Submit ISR	1.90a4
Emulex LPe11000	Submit ISR	5.12a2	Submit ISR	2.80a4	1.70a3 2.01a2 2.02a2	1.70a3 2.70a5
Emulex LPe11002	Submit ISR	5.12a2	Submit ISR	2.80a4	1.70a3 2.01a2 2.02a2	1.70a3 2.70a5
Emulex LPe12000	Submit ISR	Submit ISR	Submit ISR	2.01a2	Submit ISR	2.01a2
Emulex LPe12002	Submit ISR	Submit ISR	Submit ISR	2.01a2	Submit ISR	2.01a2
HP 361426-B21	Submit ISR	Submit ISR	Submit ISR	1.45	Submit ISR	Submit ISR
HP 403619-B21	Submit ISR	Submit ISR	Submit ISR	1.26	Submit ISR	1.26
HP 403621-B21	Submit ISR	Submit ISR	Submit ISR	2.80a4 3.00a4 3.03a9	1.70a3 3.00a4	3.00a4
IBM 26R0836	Submit ISR	1.47	Submit ISR	Submit ISR	Submit ISR	Submit ISR
IBM 26R0890	Submit ISR	2.04	Submit ISR	1.24 2.04	Submit ISR	Submit ISR
IBM 41Y8527	Submit ISR	2.04	Submit ISR	Submit ISR	2.01	2.01
IBM 44X1945	Submit ISR	2.09	Submit ISR	Submit ISR	Submit ISR	Submit ISR
IBM 46M6065	Submit ISR	2.09	Submit ISR	Submit ISR	Submit ISR	Submit ISR
IBM 48P7061	Submit ISR	Submit ISR	Submit ISR	1.43	Submit ISR	Submit ISR

HDS RAID Arrays SAN Boot Support Matrix

QLogic QLA2340	Submit ISR	1.54.	1.43 1.45	1.04 1.25 1.43 1.47 1.45 1.54	1.47	1.43 1.47 1.54
QLogic QLA2342	Submit ISR	1.54.	1.43 1.45	1.04 1.25 1.43 1.47 1.45 1.54	1.47	1.43 1.47 1.54
QLogic QLA2460	Submit ISR	Submit ISR	1.43	1.04 1.12	1.18 1.24 1.26	1.04 1.12 1.18 1.24 1.26 2.10
QLogic QLA2462	Submit ISR	Submit ISR	1.43	1.04 1.12	1.18 1.24 1.26	1.04 1.12 1.18 1.24 1.26 2.10
QLogic QLE2460	Submit ISR	3.00	1.16 1.26 1.29	1.16 1.26 1.29	1.09	1.09
QLogic QLE2462	Submit ISR	3.00	1.16 1.26 1.29	1.16 1.26 1.29	1.09	1.09
Sun SG-XPC11FC-EM2	Submit ISR	Submit ISR	1.70a3 1.71a0	1.70a1 1.70a3 1.71a0	Submit ISR	1.70a1 1.71a0
Sun SG-XPC11FC-EM4-Z	Submit ISR	Submit ISR	1.70a3 1.71a0	1.70a3 1.71a0	Submit ISR	1.71a0
Sun SG-XPC11FC-QF4	Submit ISR	Submit ISR	1.43	1.04	1.18 1.24 1.26	1.12 1.18 1.24 1.26
Sun SG-XPC11FC-QL2	Submit ISR	Submit ISR	1.43 1.45	1.04 1.43 1.45	1.47	1.43 1.47
Sun SG-XPC12FC-EM2	Submit ISR	Submit ISR	1.70a3 1.71a0	1.70a1 1.70a3 1.71a0	Submit ISR	1.70a1 1.71a0
Sun SG-XPC12FC-EM4-Z	Submit ISR	Submit ISR	1.70a3 1.71a0	1.70a3 1.71a0	Submit ISR	1.71a0

HDS RAID Arrays SAN Boot Support Matrix

Sun SG-XPCI2FC-QF2-Z	Submit ISR	Submit ISR	1.43 1.45	1.04 1.43 1.45	1.47	1.43 1.47
Sun SG-XPCI2FC-QF4	Submit ISR	Submit ISR	1.43	1.04	1.18 1.24 1.26	1.12 1.18 1.24 1.26
Sun SG-XPCIE1FC-EM4	Submit ISR	Submit ISR	Submit ISR	Submit ISR	1.70a3	1.70a3
Sun SG-XPCIE1FC-QF4	Submit ISR	Submit ISR	1.16 1.26	1.16 1.26	1.09	1.09
Sun SG-XPCIE2FC-EM4	Submit ISR	Submit ISR	Submit ISR	Submit ISR	1.70a3	1.70a3
Sun SG-XPCIE2FC-QF4	Submit ISR	Submit ISR	1.16 1.26	1.16 1.26	1.09	1.09

Microsoft Windows 2008 (IA32)	VSP		USP-V/VM		USP/NSC	
	Direct	Switch	Direct	Switch	Direct	Switch
BIOS						
Brocade 825	Submit ISR	Submit ISR	Submit ISR	2.1.0.0	Submit ISR	2.1.0.0
Emulex LP10000	Submit ISR	Submit ISR	1.70a3 1.71a0	1.70a1 1.70a3 1.71a0	2.01a2 2.02a2	1.70a1 1.71a0
Emulex LP10000DC	Submit ISR	Submit ISR	1.70a3 1.71a0	1.70a1 1.70a3 1.71a0	2.01a2 2.02a2	1.70a1 1.71a0
Emulex LP11000	Submit ISR	Submit ISR	1.70a3 1.71a0	1.70a3 1.71a0	2.01a2 2.02a2	1.71a0
Emulex LP11002	Submit ISR	Submit ISR	1.70a3 1.71a0	1.70a3 1.71a0	2.01a2 2.02a2	1.71a0
Emulex LP9802	Submit ISR	Submit ISR	1.70a3 1.71a0	1.70a3 1.71a0	Submit ISR	Submit ISR
Emulex LP9802DC	Submit ISR	Submit ISR	1.70a3 1.71a0	1.70a3 1.71a0	Submit ISR	Submit ISR
Emulex LPe11000	Submit ISR	2.12a6	Submit ISR	Submit ISR	1.70a3 2.01a2 2.02a2	1.70a3
Emulex LPe11002	Submit ISR	2.12a6	Submit ISR	Submit ISR	1.70a3 2.01a2 2.02a2	1.70a3
Emulex LPe12000	Submit ISR	Submit ISR	Submit ISR	2.01a2 2.02a2	2.02a2	2.01a2 2.02a2
Emulex LPe12002	Submit ISR	Submit ISR	Submit ISR	2.01a2 2.02a2	2.02a2	2.01a2 2.02a2
Hitachi HFC0401/0402	Submit ISR	10.00.03.07	Submit ISR	Submit ISR	Submit ISR	Submit ISR
Hitachi HFCE0802	Submit ISR	10.00.04.03	Submit ISR	Submit ISR	Submit ISR	Submit ISR

HDS RAID Arrays SAN Boot Support Matrix

HP 403619-B21	Submit ISR	Submit ISR	Submit ISR	1.26	Submit ISR	1.26
HP 403621-B21	Submit ISR	Submit ISR	Submit ISR	3.00a4	1.70a3 3.00a4	3.00a4
IBM 26R0890	Submit ISR	Submit ISR	Submit ISR	1.24	Submit ISR	Submit ISR
IBM 41Y8527	Submit ISR	Submit ISR	Submit ISR	Submit ISR	2.01	2.01
IBM 46M6065	Submit ISR	2.09	Submit ISR	Submit ISR	Submit ISR	Submit ISR
IBM 48P7061	Submit ISR	Submit ISR	Submit ISR	1.43	Submit ISR	Submit ISR
QLogic QLA2340	Submit ISR	Submit ISR	1.43 1.45	1.04 1.29 1.43 1.45	1.47	1.29 1.43 1.47
QLogic QLA2342	Submit ISR	Submit ISR	1.43 1.45	1.04 1.29 1.43 1.45	1.47	1.29 1.43 1.47
QLogic QLA2460	Submit ISR	Submit ISR	1.43	1.04 1.12 1.29	1.18 1.24 1.26	1.12 1.18 1.24 1.26 1.29
QLogic QLA2462	Submit ISR	Submit ISR	1.43	1.04 1.12 1.29	1.18 1.24 1.26	1.12 1.18 1.24 1.26 1.29
QLogic QLE2460	Submit ISR	Submit ISR	1.16 1.26 1.29	1.12 1.16 1.26 1.29	1.09	1.09 1.12
QLogic QLE2462	Submit ISR	Submit ISR	1.16 1.26 1.29	1.12 1.16 1.26 1.29	1.09	1.09 1.12
Sun SG-XPCI1FC-EM2	Submit ISR	Submit ISR	1.70a3 1.71a0	1.70a1 1.70a3 1.71a0	Submit ISR	1.70a1 1.71a0
Sun SG-XPCI1FC-EM4-Z	Submit ISR	Submit ISR	1.70a3 1.71a0	1.70a3 1.71a0	Submit ISR	1.71a0
Sun SG-XPCI1FC-QF4	Submit ISR	Submit ISR	1.43	1.04	1.18 1.24 1.26	1.12 1.18 1.24 1.26

HDS RAID Arrays SAN Boot Support Matrix

Sun SG-XPCI1FC-QL2	Submit ISR	Submit ISR	1.43 1.45	1.04 1.43 1.45	1.47	1.43 1.47
Sun SG-XPCI2FC-EM2	Submit ISR	Submit ISR	1.70a3 1.71a0	1.70a1 1.70a3 1.71a0	Submit ISR	1.70a1 1.71a0
Sun SG-XPCI2FC-EM4-Z	Submit ISR	Submit ISR	1.70a3 1.71a0	1.70a3 1.71a0	Submit ISR	1.71a0
Sun SG-XPCI2FC-QF2-Z	Submit ISR	Submit ISR	1.43 1.45	1.04 1.43 1.45	1.47	1.43 1.47
Sun SG-XPCI2FC-QF4	Submit ISR	Submit ISR	1.43	1.04	1.18 1.24 1.26	1.12 1.18 1.24 1.26
Sun SG-XPCIE1FC-EM4	Submit ISR	Submit ISR	Submit ISR	Submit ISR	1.70a3	1.70a3
Sun SG-XPCIE1FC-QF4	Submit ISR	Submit ISR	1.16 1.26	1.16 1.26	1.09	1.09
Sun SG-XPCIE2FC-EM4	Submit ISR	Submit ISR	Submit ISR	Submit ISR	1.70a3	1.70a3
Sun SG-XPCIE2FC-QF4	Submit ISR	Submit ISR	1.16 1.26	1.16 1.26	1.09	1.09

Microsoft Windows (IA64) HBA Support

Microsoft Windows 2003 (IA64)	VSP		USP-V/VM		USP/NSC	
	Direct	Switch	Direct	Switch	Direct	Switch
EFI						
Emulex LP10000	Submit ISR	Submit ISR	Submit ISR	Submit ISR	3.11a5	3.11a5
Emulex LP10000DC	Submit ISR	Submit ISR	Submit ISR	Submit ISR	3.11a5	3.11a5
Emulex LP9002DC	Submit ISR	Submit ISR	Submit ISR	Submit ISR	Submit ISR	3.10a6
Emulex LP9002L	Submit ISR	Submit ISR	Submit ISR	Submit ISR	Submit ISR	3.90a7 3.10a6

Microsoft Windows 2008 (IA64)	VSP		USP-V/VM		USP/NSC	
	Direct	Switch	Direct	Switch	Direct	Switch
EFI						
Emulex LPe11000	Submit ISR	Submit ISR	2.72a2	2.72a2	Submit ISR	Submit ISR
Emulex LPe11002	Submit ISR	Submit ISR	2.72a2	2.72a2	Submit ISR	Submit ISR
Emulex LPe12000	Submit ISR	Submit ISR	Submit ISR	Submit ISR	1.00a5	1.00a5

HDS RAID Arrays SAN Boot Support Matrix

Emulex LPe12002	Submit ISR	Submit ISR	Submit ISR	Submit ISR	1.00a5	1.00a5
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Microsoft Windows (X64) HBA Support

Microsoft Windows 2003 (X64)	VSP		USP-V/VM		USP/NSC	
	Direct	Switch	Direct	Switch	Direct	Switch
BIOS						
Brocade 1020	Submit ISR	2.3.0.2	Submit ISR	2.3.0.2	Submit ISR	2.3.0.2
Brocade 825	Submit ISR	2.3.0.2	Submit ISR	2.3.0.0 2.3.0.2	Submit ISR	2.3.0.2
Emulex LP10000	Submit ISR	5.12a2	1.70a3 1.71a0	1.70a3 1.71a0	2.01a2 2.02a2	1.71a0
Emulex LP10000DC	Submit ISR	5.12a2	1.70a3 1.71a0	1.70a3 1.71a0	2.01a2 2.02a2	1.71a0
Emulex LP11000	Submit ISR	Submit ISR	1.70a3 1.71a0 2.00a1	1.70a3 1.71a0 2.00a1	2.01a2 2.02a2	1.71a0
Emulex LP11002	Submit ISR	Submit ISR	1.70a3 1.71a0 2.00a1	1.70a3 1.71a0 2.00a1	2.01a2 2.02a2	1.71a0
Emulex LP9002DC	Submit ISR	Submit ISR	1.70a1 1.70a3	1.70a1 1.70a3	Submit ISR	Submit ISR
Emulex LP9002L	Submit ISR	Submit ISR	1.70a1 1.70a3	1.70a1 1.70a3	Submit ISR	Submit ISR
Emulex LP9802	Submit ISR	Submit ISR	1.70a3 1.71a0	1.70a3 1.71a0	Submit ISR	1.90a4
Emulex LP9802DC	Submit ISR	Submit ISR	1.70a3 1.71a0	1.70a3 1.71a0	Submit ISR	1.90a4
Emulex LPe11000	Submit ISR	5.03a10 5.12a12	2.00a1	1.71a0 2.00a1 3.03a7	2.01a2 2.02a2	1.70a3 1.71a0 2.70a5
Emulex LPe11002	Submit ISR	5.03a10 5.12a12	2.00a1	1.71a0 2.00a1 3.03a7	2.01a2 2.02a2	1.70a3 1.71a0 2.70a5
Emulex LPe12000	Submit ISR	Submit ISR	Submit ISR	2.01a2 3.03a7 5.03a0	2.02a2	2.01a2
Emulex LPe12002	Submit ISR	Submit ISR	Submit ISR	2.01a2 3.03a7 5.03a0	2.02a2	2.01a2
HP 403619-B21	Submit ISR	2.12	Submit ISR	1.26 1.29	Submit ISR	1.26 1.29
HP 403621-B21	Submit ISR	6.00a5	Submit ISR	3.00a4 3.03a9	Submit ISR	2.50a8 3.00a4
HP 451871-B21	Submit ISR	2.16	Submit ISR	2.12	Submit ISR	Submit ISR

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IBM 39Y9306	Submit ISR	Submit ISR	Submit ISR	2.04	Submit ISR	Submit ISR
IBM 41Y8527	Submit ISR	2.04	Submit ISR	2.04	2.01	2.01
IBM 44X1940	Submit ISR	Submit ISR	Submit ISR	2.09	Submit ISR	Submit ISR
IBM 46M6065	Submit ISR	2.09	Submit ISR	Submit ISR	Submit ISR	Submit ISR
QLogic QLA2340	Submit ISR	Submit ISR	1.45	1.45	Submit ISR	1.54
QLogic QLA2342	Submit ISR	3.00	1.45	1.45	Submit ISR	1.54
QLogic QLA2460	Submit ISR	3.00	1.29	1.29	Submit ISR	1.04
QLogic QLA2462	Submit ISR	Submit ISR	1.29	1.29	Submit ISR	1.04
QLogic QLE2460	Submit ISR	Submit ISR	1.16 1.26 1.29	1.16 1.26 1.29	1.26 1.29	1.04 1.26 1.29
QLogic QLE2462	Submit ISR	Submit ISR	1.16 1.26 1.29	1.16 1.26 1.29	1.26 1.29	1.04 1.26 1.29
QLogic QLE2560	Submit ISR	2.15	Submit ISR	Submit ISR	Submit ISR	Submit ISR
QLogic QLE2562	Submit ISR	2.15	Submit ISR	Submit ISR	Submit ISR	Submit ISR
Sun SG-XPCI1FC-EM2	Submit ISR	Submit ISR	1.70a3 1.71a0	1.70a3 1.71a0	Submit ISR	1.71a0
Sun SG-XPCI1FC-EM4-Z	Submit ISR	Submit ISR	1.70a3 1.71a0	1.70a3 1.71a0	Submit ISR	1.71a0
Sun SG-XPCI1FC-QF4	Submit ISR	Submit ISR	Submit ISR	Submit ISR	Submit ISR	1.04
Sun SG-XPCI1FC-QL2	Submit ISR	Submit ISR	1.45	1.45	Submit ISR	Submit ISR
Sun SG-XPCI2FC-EM2	Submit ISR	Submit ISR	1.70a3 1.71a0	1.70a3 1.71a0	Submit ISR	1.71a0
Sun SG-XPCI2FC-EM4-Z	Submit ISR	Submit ISR	1.70a3 1.71a0	1.70a3 1.71a0	Submit ISR	1.71a0
Sun SG-XPCI2FC-QF2-Z	Submit ISR	Submit ISR	1.45	1.45	Submit ISR	Submit ISR
Sun SG-XPCI2FC-QF4	Submit ISR	Submit ISR	Submit ISR	Submit ISR	Submit ISR	1.04
Sun SG-XPCIE1FC-EM4	Submit ISR	Submit ISR	Submit ISR	1.71a0	Submit ISR	1.70a3 1.71a0
Sun SG-XPCIE1FC-QF4	Submit ISR	Submit ISR	1.16 1.26 1.29	1.16 1.26 1.29	1.26 1.29	1.04 1.26 1.29
Sun SG-XPCIE2FC-EM4	Submit ISR	Submit ISR	Submit ISR	1.71a0	Submit ISR	1.70a3 1.71a0

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Sun SG-XPCIE2FC-QF4	Submit ISR	Submit ISR	1.16	1.16	1.26	1.04
			1.26	1.26	1.29	1.26
			1.29	1.29		1.29

Microsoft Windows 2008 (X64)	VSP		USP-V/VM		USP/NSC	
BIOS	Direct	Switch	Direct	Switch	Direct	Switch
Brocade 825	Submit ISR	Submit ISR	Submit ISR	1.1.0.6	Submit ISR	Submit ISR
Cisco UCS M81KR	Submit ISR	2.0(1q)	Submit ISR	Submit ISR	Submit ISR	Submit ISR
Emulex LP10000	Submit ISR	Submit ISR	1.70a3 1.71a0	1.70a3 1.71a0	2.01a2 2.02a2	1.71a0
Emulex LP10000DC	Submit ISR	Submit ISR	1.70a3 1.71a0	1.70a3 1.71a0	2.01a2 2.02a2	1.71a0
Emulex LP11000	Submit ISR	Submit ISR	1.70a3 1.71a0 2.00a1	1.70a3 1.71a0 2.00a1	2.01a2 2.02a2	1.71a0
Emulex LP11002	Submit ISR	Submit ISR	1.70a3 1.71a0 2.00a1	1.70a3 1.71a0 2.00a1	2.01a2 2.02a2	1.71a0
Emulex LP9802	Submit ISR	Submit ISR	1.70a3 1.71a0	1.70a3 1.71a0	Submit ISR	Submit ISR
Emulex LP9802DC	Submit ISR	Submit ISR	1.70a3 1.71a0	1.70a3 1.71a0	Submit ISR	Submit ISR
Emulex LPe11000	Submit ISR	2.12a6	2.00a1	1.71a0 2.00a1 2.02a1	2.01a2 2.02a2	1.70a3 1.71a0 2.02a1
Emulex LPe11002	Submit ISR	2.12a6	2.00a1	1.71a0 2.00a1 2.02a1	2.01a2 2.02a2	1.70a3 1.71a0 2.02a1
Emulex LPe12000	Submit ISR	2.02a1	Submit ISR	2.01a2 2.02a1	2.02a2	2.01a2 2.02a1
Emulex LPe12002	Submit ISR	2.02a1	Submit ISR	2.01a2 2.02a1	2.02a2	2.01a2 2.02a1
Hitachi HFC0401/0402	Submit ISR	10.00.03.07	Submit ISR	Submit ISR	Submit ISR	Submit ISR
Hitachi HFCE0802	Submit ISR	10.00.04.03	Submit ISR	Submit ISR	Submit ISR	Submit ISR
HP 403619-B21	Submit ISR	2.12	Submit ISR	1.26 1.29	Submit ISR	1.26 1.29
HP 403621-B21	Submit ISR	Submit ISR	Submit ISR	3.00a4	Submit ISR	3.00a4
HP 451871-B21	Submit ISR	Submit ISR	Submit ISR	3.00a4	Submit ISR	3.00a4
IBM 41Y8527	Submit ISR	Submit ISR	Submit ISR	2.12	Submit ISR	Submit ISR
IBM 46M6065	Submit ISR	2.09	Submit ISR	Submit ISR	Submit ISR	Submit ISR

HDS RAID Arrays SAN Boot Support Matrix

QLogic QLA2340	Submit ISR	Submit ISR	1.45	1.45	Submit ISR	Submit ISR
QLogic QLA2342	Submit ISR	Submit ISR	1.45	1.45	Submit ISR	Submit ISR
QLogic QLA2460	Submit ISR	Submit ISR	1.29	1.29	Submit ISR	1.04
QLogic QLA2462	Submit ISR	Submit ISR	1.29	1.29	Submit ISR	1.04
QLogic QLE2460	Submit ISR	Submit ISR	1.16 1.26 1.29	1.16 1.26 1.29	1.26 1.29	1.04 1.26 1.29
QLogic QLE2462	Submit ISR	Submit ISR	1.16 1.26 1.29	1.16 1.26 1.29	1.26 1.29	1.04 1.26 1.29
Sun SG-XPCI1FC-EM2	Submit ISR	Submit ISR	1.70a3 1.71a0	1.70a3 1.71a0	Submit ISR	1.71a0
Sun SG-XPCI1FC-EM4-Z	Submit ISR	Submit ISR	1.70a3 1.71a0	1.70a3 1.71a0	Submit ISR	1.71a0
Sun SG-XPCI1FC-QF4	Submit ISR	Submit ISR	Submit ISR	Submit ISR	Submit ISR	1.04
Sun SG-XPCI1FC-QL2	Submit ISR	Submit ISR	1.45	1.45	Submit ISR	Submit ISR
Sun SG-XPCI2FC-EM2	Submit ISR	Submit ISR	1.70a3 1.71a0	1.70a3 1.71a0	Submit ISR	1.71a0
Sun SG-XPCI2FC-EM4-Z	Submit ISR	Submit ISR	1.70a3 1.71a0	1.70a3 1.71a0	Submit ISR	1.71a0
Sun SG-XPCI2FC-QF2-Z	Submit ISR	Submit ISR	1.45	1.45	Submit ISR	Submit ISR
Sun SG-XPCI2FC-QF4	Submit ISR	Submit ISR	Submit ISR	Submit ISR	Submit ISR	1.04
Sun SG-XPCIE1FC-EM4	Submit ISR	Submit ISR	Submit ISR	1.71a0	Submit ISR	1.70a3 1.71a0
Sun SG-XPCIE1FC-QF4	Submit ISR	Submit ISR	1.16 1.26 1.29	1.16 1.26 1.29	1.26 1.29	1.04 1.26 1.29
Sun SG-XPCIE2FC-EM4	Submit ISR	Submit ISR	Submit ISR	1.71a0	Submit ISR	1.70a3 1.71a0
Sun SG-XPCIE2FC-QF4	Submit ISR	Submit ISR	1.16 1.26 1.29	1.16 1.26 1.29	1.26 1.29	1.04 1.26 1.29
Sun SG-XPCIE2FCGBE-E-N	Submit ISR	Submit ISR	Submit ISR	5.03a4	Submit ISR	Submit ISR

Microsoft Windows 2008 R2 (X64)	VSP		USP-V/VM		USP/NSC	
	Direct	Switch	Direct	Switch	Direct	Switch
BIOS						
Brocade 1020	Submit ISR	2.3.0.2	Submit ISR	2.3.0.2	Submit ISR	2.3.0.2

HDS RAID Arrays SAN Boot Support Matrix

Brocade 825	Submit ISR	2.3.0.2	Submit ISR	2.3.0.0 2.3.0.2	Submit ISR	2.3.0.2
Cisco UCS M71KR-Q	Submit ISR	2.0(1q)	Submit ISR	Submit ISR	Submit ISR	Submit ISR
Cisco UCS M81KR	Submit ISR	2.0(1q)	Submit ISR	Submit ISR	Submit ISR	Submit ISR
Emulex LPe11000	Submit ISR	5.03a10	Submit ISR	2.02a2	Submit ISR	2.12a6 2.82a4 5.03a0
Emulex LPe11002	Submit ISR	5.03a10	Submit ISR	2.02a2	Submit ISR	2.12a6 2.82a4 5.03a0
Hitachi HFC0401/0402	Submit ISR	10.00.03.07	Submit ISR	Submit ISR	Submit ISR	Submit ISR
Hitachi HFCE0802	Submit ISR	10.00.04.03	Submit ISR	Submit ISR	Submit ISR	Submit ISR
HP 403619-B21	Submit ISR	2.15	Submit ISR	Submit ISR	Submit ISR	Submit ISR
HP 403621-B21	Submit ISR	6.03a11	Submit ISR	Submit ISR	Submit ISR	3.11a5
HP 451871-B21	Submit ISR	2.20	Submit ISR	2.15	Submit ISR	Submit ISR
HP 456972-B21	Submit ISR	6.03a11	Submit ISR	6.03a11	Submit ISR	Submit ISR
IBM 44X1940	Submit ISR	2.09	Submit ISR	2.09	Submit ISR	Submit ISR
QLogic QLE2560	2.37	2.15 2.37	2.37	2.37	Submit ISR	Submit ISR
QLogic QLE2562	2.37	2.15 2.37	2.37	2.37	Submit ISR	Submit ISR

Citrix XENServer (X64) HBA Support

Citrix XENServer 5.6 (X64)	VSP		USP-V/M		USP/NSC	
BIOS	Direct	Switch	Direct	Switch	Direct	Switch
HP 403619-B21	Submit ISR	2.20	Submit ISR	Submit ISR	Submit ISR	Submit ISR