



IBM Linux on POWER

Facts and Features

(IBM @server OpenPower, p5, i5, pSeries and BladeCenter JS20)

July 28, 2005

Product Line	IBM @server® OpenPower™ 710	IBM @server OpenPower 720
Machine Type	9123-710	9124-720
System Packaging	rack drawer (2U)	rack drawer (4U), deskside
Microprocessor type	64-bit IBM POWER5™	64-bit POWER5
# of processors / system and clock rates available	1- or 2-way 1.65 GHz	1-, 2- or 4-way 1.5 GHz 2- or 4-way 1.65 GHz
Linux® Distributions *	RHEL AS 4 / SLES 9	RHEL AS 4 / SLES 9
Linux LPAR Support	O / O	O / O
Capacity on Demand (CoD) Features	- / -	- / -
Storage Interfaces		
1975 (52P8630) PCI-X Dual Channel Ultra320 SCSI RAID Adapter	X / X	X / X
1976 (52P8631) Dual Channel SCSI RAID Enablement Card	- / -	X / X
1974 (52P8632) PCI-X Dual Channel Ultra320 SCSI Adapter	X / X	X / X
1977 (52P8633) 2 Gigabit Fibre Channel PCI-X Adapter	X / X	X / X
Communications and Connectivity		
2738 (52P8639) 2-Port USB PCI Adapter	X / X	X / X
1985 (52P8640) 10/100 Mbps Ethernet PCI II Adapter	X / X	X / X
1978 (52P8641) Gigabit Ethernet-SX PCI-X Adapter (Fibre)	X / X	X / X
1979 (52P8642) 10/100/1000 Base-TX Ethernet PCI-X Adapter	X / X	X / X
1983 (52P8643) 2-Port 10/100/1000 Base-TX Ethernet PCI-X	X / X	X / X
1984 (52P8644) 2-Port Gigabit Ethernet-SX PCI-X Adapter	X / X	X / X
1981 (52P8614) 10 Gigabit Ethernet-SR PCI-X Adapter	P / X	P / X
1982 (52P8615) 10 Gigabit Ethernet-LR PCI-X Adapter	P / X	P / X
5723 (64P1243) 2-Port Asynchronous EIA-232 PCI Adapter ^b	P / X	P / X
Display Adapters ^a		
1980 (52P8645) PCI-X 2D Graphics Accelerator GXT135P	X / X	X / X
Disk Drives and Subsystems		
2591 (52P8634) External USB 1.44MB Diskette Drive	X / X	X / X
2104 Expandable Storage Plus	X / X	X / X
2105 Enterprise Storage Server	X / X	X / X
DS4000 Series ^e	X / X	X / X
DS6000 Series	X / X	X / X
DS8000 Series	X / X	X / X
Expansion Drawers		
7311-D20 I/O Drawer	- / -	X / X
Fibre Channel Directors, Switches and Hubs		
2031-016/032/216/224/232/L00 McDATA Fibre Channel Switch	X / X	X / X
2032-001/064/140 McDATA Fibre Channel Director	X / X	X / X
2042-001/128/256 INRANGE FC/9000 Fibre Director	X / X	X / X
2062-D01/D04/T07 Cisco Fabric Switch / Director	X / X	X / X
2005-H08/H16 SAN Switch	X / X	X / X
3534-F08 SAN Switch	X / X	X / X
2109-F16/F32/M12/M14/S08/S16 SAN Switch	X / X	X / X
Internal Optical and Tape Drives		
1994 (52P8635) IDE Slimline DVD-ROM	X / X	X / X
1993 (52P8636) IDE Slimline DVD-RAM	X / X	X / X
1992 (52P8652) IBM VXA-2 80/160GB Tape Drive	- / -	X / X
1991 (52P8638) 36/72 DDS Generation-5 4mm Tape Drive	- / -	X / X
External Tape Drives and Libraries		
3494 Enterprise Automated Tape Library ^f	X / X	X / X
3580 Ultrium LTO Gen 2 Tape Drive ^f	X / X	X / X
3581 LTO Gen 2 Ultrium Tape Autoloader ^f	X / X	X / X
3582 Ultrium Tape Library ^f	X / X	X / X
3583 LTO Ultrium Scalable Tape Library ^f	X / X	X / X
3584 UltraScalable Tape Library ^f	X / X	X / X
3590 H11/H1A/E11/E1A Enterprise Tape Drive ^f	X / X	X / X
3592 Enterprise Tape Drive ^f	X / X	X / X
Benchmarks		
	(1-, 2-way 1.65 GHz RHEL AS 4)	(1-, 2-, 4-way; 1.65 GHz SLES 9)
SPECint_base2000	1,129, -	1,121, -, -
SPECfp_base2000	1,828, -	1,865, -, -
SPECint_rate_base2000	-, 29.5	-, -, 58.8
SPECfp_rate_base2000	-, 39.0	-, -, 78.8
SPEC OMPMbase2001	-, 5,020	-, -, 9,664
SPECjbb2000	-, -	-, -, 136,167
SPECsfs_R1.v3	-, -	-, -, 73,092 (SLES 9 SP1)
Linpack HPC	-, 12,120	-, -, 24,120 (RHEL AS 4)
SPECjAppServer2004	-, -	-, -, 1,334

Product Line	IBM @server p5 510	IBM @server p5 520
Machine Type	9110-510	9111-520
System Packaging	rack drawer (2U)	19" rack drawer (4U); deskside
Microprocessor type	64-bit POWER5	64-bit POWER5
# of processors / system and clock rates available	1- or 2-way 1.5 GHz 1- or 2-way 1.65 GHz	1- or 2-way 1.5 GHz 2-way 1.65 GHz
Linux Distributions *	RHEL AS 4 / SLES 9	RHEL AS 4 / SLES 9
Linux LPAR Support	X / X	X / X
Capacity on Demand (CoD) Features	- / -	- / -
Storage Interfaces		
5703 PCI-X Dual Channel Ultra320 SCSI RAID Adapter	X / X	X / X
5709 Dual Channel SCSI RAID Enablement Card	- / -	X / X
5712 PCI-X Dual Channel Ultra320 SCSI Adapter	X / X	X / X
6204 PCI Universal Differential Ultra SCSI Adapter	X / X	X / X
6239 2 Gigabit Fibre Channel PCI-X Adapter	X / X	X / X
5716 2 Gigabit Fibre Channel PCI-X Adapter	X / X	X / X
Communications and Connectivity		
2738 2-Port USB PCI Adapter	X / X	X / X
4962 1-Port 10/100 Mbps Ethernet Adapter	X / X	X / X
5700 Gigabit Ethernet-SX PCI-X Adapter (Fibre)	X / X	X / X
5701 10/100/1000 Base-TX Ethernet PCI-X Adapter (Copper)	X / X	X / X
5706 2-Port 10/100/1000 Base-TX Ethernet PCI-X	X / X	X / X
5707 2-Port Gigabit Ethernet-SX PCI-X Adapter	X / X	X / X
5718 10 Gigabit Ethernet-SR PCI-X Adapter	P / X	P / X
5719 10 Gigabit Ethernet-LR PCI-X Adapter	P / X	P / X
5723 2-Port Asynchronous EIA-232 PCI Adapter ^b	P / X	P / X
Display Adapters ^a		
2848 PCI 2D Graphics Accelerator GXT135	X / X	X / X
2849 PCI 2D Graphics Accelerator GXT135P	X / X	X / X
Disk Drives and Subsystems		
2591 External USB 1.44MB Diskette Drive	X / X	X / X
2104 Expandable Storage Plus	X / X	X / X
2105 Enterprise Storage Server	X / X	X / X
DS4000 Series ^e	X / X	X / X
DS6000 Series	X / X	X / X
DS8000 Series	X / X	X / X
Expansion Drawers		
7311-D20 I/O Drawer	- / -	O / O
Fibre Channel Directors, Switches and Hubs		
2031-016/032/216/224/232/L00 McDATA Fibre Channel	X / X	X / X
2032-001/064/140/C36/C40 McDATA Fibre Channel Director	X / X	X / X
2042-001/128/256/C40 INRANGE FC/9000 Fibre Director	X / X	X / X
2062-D01/D07/T07 Cisco Fabric Switch / Director	X / X	X / X
2005-H08/H16 SAN Switch	X / X	X / X
3534-F08 SAN Switch	X / X	X / X
2109-F16/F32/M12/S08/S16 SAN Switch	X / X	X / X
Internal Optical and Tape Drives		
2640 IDE Slimline DVD-ROM	X / X	X / X
5751 IDE Slimline DVD-RAM	X / X	X / X
6120 IBM VXA2 80/160GB Tape Drive	- / -	X / X
6258 36/72 DDS Generation5 4mm Tape Drive	- / -	X / X
External Tape Drives and Libraries		
3494 Enterprise Automated Tape Library ^f	X / X	X / X
3580 Ultrium LTO Gen 2 Tape Drive ^f	X / X	X / X
3581 LTO Gen 2 Ultrium Tape Autoloader ^f	X / X	X / X
3582 Ultrium Tape Library ^f	X / X	X / X
3583 LTO Ultrium Scalable Tape Library ^f	X / X	X / X
3584 UltraScalable Tape Library ^f	X / X	X / X
3590 H11/H1A/E11/E1A Enterprise Tape Drive ^f	X / X	X / X
3592 Enterprise Tape Drive ^f	X / X	X / X
Benchmarks		(2-way; 1.65 GHz RHEL AS 3 U3)
SPEC OMPMbase2001		4,758

Product Line	IBM @server p5 550	IBM @server p5 570
Machine Type	9113-550	9117-570
System Packaging	19" rack drawer (4U); deskside	19" rack drawer (4U)
Microprocessor type	64-bit POWER5	64-bit POWER5
# of processors / system and clock rates available	1-, 2- or 4-way 1.5 GHz 2- or 4-way 1.65 GHz	2-, 4- or 8-way 1.5 GHz 2-, 4-, 8-, 12- or 16-way 1.65 GHz 2-, 4-, 8-, 12- or 16-way 1.9 GHz
Linux Distributions *	RHEL AS 4 / SLES 9	RHEL AS 4 / SLES 9
Linux LPAR Support	X / X	X / X
Capacity on Demand (CoD) Features	X ⁹ / X ⁹	X ⁹ / X ⁹
Storage Interfaces		
5703 PCI-X Dual Channel Ultra320 SCSI RAID Adapter	X / X	X / X
5709 Dual Channel SCSI RAID Enablement Card	X / X	X / X
5712 PCI-X Dual Channel Ultra320 SCSI Adapter	X / X	X / X
6203 PCI Dual Channel Ultra3 SCSI Adapter	- / -	X / X
6204 PCI Universal Differential Ultra SCSI Adapter	X / X	X / X
6228 2 Gigabit Fibre Channel PCI Adapter	- / -	X / X
6239 2 Gigabit Fibre Channel PCI-X Adapter	X / X	X / X
5716 2 Gigabit Fibre Channel PCI-X Adapter	X / X	X / X
Communications and Connectivity		
2738 2-Port USB PCI Adapter	X / X	X / X
4961 4-Port 10/100 Mbps Ethernet Adapter	- / -	X / X
4962 1-Port 10/100 Mbps Ethernet Adapter	X / X	X / X
5700 Gigabit Ethernet-SX PCI-X Adapter (Fibre)	X / X	X / X
5701 10/100/1000 Base-TX Ethernet PCI-X Adapter (Copper)	X / X	X / X
5706 2-Port 10/100/1000 Base-TX Ethernet PCI-X	X / X	X / X
5707 2-Port Gigabit Ethernet-SX PCI-X Adapter	X / X	X / X
5718 10 Gigabit Ethernet-SR PCI-X Adapter	P / X	P / X
5719 10 Gigabit Ethernet-LR PCI-X Adapter	P / X	P / X
5723 2-Port Asynchronous EIA-232 PCI Adapter ^d	P / X	P / X
Display Adapters^a		
2848 PCI 2D Graphics Accelerator GXT135	X / X	X / X
2849 PCI 2D Graphics Accelerator GXT135P	X / X	X / X
Disk Drives and Subsystems		
2591 External USB 1.44MB Diskette Drive	X / X	X / X
2104 Expandable Storage Plus	X / X	X / X
2105 Enterprise Storage Server	X / X	X / X
DS4000 Series ^e	X / X	X / X
DS6000 Series	X / X	X / X
DS8000 Series	X / X	X / X
Expansion Drawers		
7311-D10 I/O Drawer	- / -	X / X
7311-D11 I/O Drawer	- / -	X / X
7311-D20 I/O Drawer	X / X	X / X
Fibre Channel Directors, Switches and Hubs		
2031-016/032/216/224/232/L00 McDATA Fibre Channel Switch	X / X	X / X
2032-001/064/140 McDATA Fibre Channel Director	X / X	X / X
2042-001/128/256 INRANGE FC/9000 Fibre Director	X / X	X / X
2062-D01/D04/T07 Cisco Fabric Switch / Director	X / X	X / X
2005-H08/H16 SAN Switch	X / X	X / X
3534-F08 SAN Switch	X / X	X / X
2109-F16/F32/M12/M14/S08/S16 SAN Switch	X / X	X / X
Internal Optical and Tape Drives		
2640 IDE Slimline DVD-ROM	X / X	X / X
5751 IDE Slimline DVD-RAM	X / X	X / X
6120 IBM VXA2 80/160GB Tape Drive	X / X	- / -
6258 36/72 DDS Generation5 4mm Tape Drive	X / X	- / -
External Tape Drives and Libraries		
3494 Enterprise Automated Tape Library ^f	X / X	X / X
3580 Ultrium LTO Gen 2 Tape Drive ^f	X / X	X / X
3581 LTO Gen 2 Ultrium Tape Autoloader ^f	X / X	X / X
3582 Ultrium Tape Library ^f	X / X	X / X
3583 LTO Ultrium Scalable Tape Library ^f	X / X	X / X
3584 UltraScalable Tape Library ^f	X / X	X / X
3590 H11/H1A/E11/E1A Enterprise Tape Drive ^f	X / X	X / X
3592 Enterprise Tape Drive ^f	X / X	X / X
Benchmarks		
SPEC OMPMbase2001		(2-, 4-, 8-, 16-way; 1.9 GHz SLES 9)
SPECweb99_SSL		-, 12,403, -, -
SPECjbb2000		-, 4,970, -, -
SPECsfs_R1.v3		82,615, 160,995, 299,197, 542,145
SPECweb99		-, 73,092 (SLES 9 SP1), -, -
		-, 13,500 (RHEL AS 3 U3), 25,000 (RHEL AS 4), -

Product Line	IBM @server p5 575
Machine Type	9118-575
System Packaging	24" system frame
Microprocessor type	64-bit POWER5
# of processors / system and clock rates available	8-way 1.9 GHz / 16-way 1.5 GHz
Linux Distributions *	RHEL AS 4 / SLES 9
Linux LPAR Support	X / X
Capacity on Demand (CoD) Features	- / -
Storage Interfaces	
5703 PCI-X Dual Channel Ultra320 SCSI RAID Adapter	X / X
5709 Dual Channel SCSI RAID Enablement Card	- / -
5712 PCI-X Dual Channel Ultra320 SCSI Adapter	X / X
6203 PCI Dual Channel Ultra3 SCSI Adapter	X / X
6204 PCI Universal Differential Ultra SCSI Adapter	X / X
6228 2 Gigabit Fibre Channel PCI Adapter	X / X
6239 2 Gigabit Fibre Channel PCI-X Adapter	X / X
5716 2 Gigabit Fibre Channel PCI-X Adapter	X / X
Communications and Connectivity	
2738 2-Port USB PCI Adapter	X / X
4961 4-Port 10/100 Mbps Ethernet Adapter	X / X
4962 1-Port 10/100 Mbps Ethernet Adapter	X / X
5700 Gigabit Ethernet-SX PCI-X Adapter (Fibre)	X / X
5701 10/100/1000 Base-TX Ethernet PCI-X Adapter (Copper)	X / X
5706 2-Port 10/100/1000 Base-TX Ethernet PCI-X	X / X
5707 2-Port Gigabit Ethernet-SX PCI-X Adapter	X / X
5718 10 Gigabit Ethernet-SR PCI-X Adapter	P / X
5719 10 Gigabit Ethernet-LR PCI-X Adapter	P / X
5723 2-Port Asynchronous EIA-232 PCI Adapter [Ⓓ]	P / X
Display Adapters [Ⓐ]	
2848 PCI 2D Graphics Accelerator GXT135	X / X
2849 PCI 2D Graphics Accelerator GXT135P	X / X
Disk Drives and Subsystems	
2591 External USB 1.44MB Diskette Drive	X / X
2104 Expandable Storage Plus	X / X
2105 Enterprise Storage Server	X / X
DS4000 Series [Ⓔ]	X / X
DS6000 Series	X / X
DS8000 Series	X / X
Expansion Drawers	
5791 Internal I/O Drawer	X / X
5794 Internal I/O Drawer	X / X
7040-61D I/O Drawer	X / X
Fibre Channel Directors, Switches and Hubs	
2031-016/032/216/224/232/L00 McDATA Fibre Channel Switch	X / X
2032-001/064/140 McDATA Fibre Channel Director	X / X
2042-001/128/256 INRANGE FC/9000 Fibre Director	X / X
2062-D01/D04/T07 Cisco Fabric Switch / Director	X / X
2005-H08/H16 SAN Switch	X / X
3534-F08 SAN Switch	X / X
2109-F16/F32/M12/M14/S08/S16 SAN Switch	X / X
Internal Optical and Tape Drives	
2640 IDE Slimline DVD-ROM	X / X
5751 IDE Slimline DVD-RAM	X / X
6120 IBM VXA2 80/160GB Tape Drive	- / -
6258 36/72 DDS Generation5 4mm Tape Drive	- / -
External Tape Drives and Libraries	
3494 Enterprise Automated Tape Library [†]	X / X
3580 Ultrium LTO Gen 2 Tape Drive [†]	X / X
3581 LTO Gen 2 Ultrium Tape Autoloader [†]	X / X
3582 Ultrium Tape Library [†]	X / X
3583 LTO Ultrium Scalable Tape Library [†]	X / X
3584 UltraScalable Tape Library [†]	X / X
3590 H11/H1A/E11/E1A Enterprise Tape Drive [†]	X / X
3592 Enterprise Tape Drive [†]	X / X
Benchmarks (SLES 9)	(8-way; 1.9 GHz RHEL AS 4)
SPECfp_rate_base2000	229
SPEC OMPMbase2001	23,640
Linpack HPC	56,780

Product Line	IBM @server p5 590	IBM @server p5 595
Machine Type	9119-590	9119-595
System Packaging	24" system frame	24" system frame
Microprocessor type	64-bit POWER5	64-bit POWER5
# of processors / system and clock rates available	8-, 16- or 32-way 1.65 GHz	16-, 32-, 48- or 64-way 1.65 GHz 16-, 32-, 48- or 64-way 1.9 GHz
Linux Distributions *	RHEL AS 4 / SLES 9	RHEL AS 4 / SLES 9
Linux LPAR Support	X / X	X / X
Capacity on Demand (CoD) Features	X / X	X / X
Storage Interfaces		
5703 PCI-X Dual Channel Ultra320 SCSI RAID Adapter	X / X	X / X
5709 Dual Channel SCSI RAID Enablement Card	- / -	- / -
5712 PCI-X Dual Channel Ultra320 SCSI Adapter	X / X	X / X
6203 PCI Dual Channel Ultra3 SCSI Adapter	X / X	X / X
6204 PCI Universal Differential Ultra SCSI Adapter	X / X	X / X
6228 2 Gigabit Fibre Channel PCI Adapter	X / X	X / X
6239 2 Gigabit Fibre Channel PCI-X Adapter	X / X	X / X
5716 2 Gigabit Fibre Channel PCI-X Adapter	X / X	X / X
Communications and Connectivity		
2738 2-Port USB PCI Adapter	X / X	X / X
4961 4-Port 10/100 Mbps Ethernet Adapter	X / X	X / X
4962 1-Port 10/100 Mbps Ethernet Adapter	X / X	X / X
5700 Gigabit Ethernet-SX PCI-X Adapter (Fibre)	X / X	X / X
5701 10/100/1000 Base-TX Ethernet PCI-X Adapter (Copper)	X / X	X / X
5706 2-Port 10/100/1000 Base-TX Ethernet PCI-X	X / X	X / X
5707 2-Port Gigabit Ethernet-SX PCI-X Adapter	X / X	X / X
5718 10 Gigabit Ethernet-SR PCI-X Adapter	P / X	P / X
5719 10 Gigabit Ethernet-LR PCI-X Adapter	P / X	P / X
5723 2-Port Asynchronous EIA-232 PCI Adapter ^D	P / X	P / X
Display Adapters ^a		
2848 PCI 2D Graphics Accelerator GXT135	X / X	X / X
2849 PCI 2D Graphics Accelerator GXT135P	X / X	X / X
Disk Drives and Subsystems		
2591 External USB 1.44MB Diskette Drive	X / X	X / X
2104 Expandable Storage Plus	X / X	X / X
2105 Enterprise Storage Server	X / X	X / X
DS4000 Series ^e	X / X	X / X
DS6000 Series	X / X	X / X
DS8000 Series	X / X	X / X
Expansion Drawers		
5791 Internal I/O Drawer	X / X	X / X
5794 Internal I/O Drawer	X / X	X / X
7040-61D I/O Drawer	X / X	X / X
Fibre Channel Directors, Switches and Hubs		
2031-016/032/216/224/232/L00 McDATA Fibre Channel Switch	X / X	X / X
2032-001/064/140 McDATA Fibre Channel Director	X / X	X / X
2042-001/128/256 INRANGE FC/9000 Fibre Director	X / X	X / X
2062-D01/D04/T07 Cisco Fabric Switch / Director	X / X	X / X
2005-H08/H16 SAN Switch	X / X	X / X
3534-F08 SAN Switch	X / X	X / X
2109-F16/F32/M12/M14/S08/S16 SAN Switch	X / X	X / X
Internal Optical and Tape Drives		
2640 IDE Slimline DVD-ROM	- / -	- / -
5751 IDE Slimline DVD-RAM	- / -	- / -
External Tape Drives and Libraries		
3494 Enterprise Automated Tape Library [†]	X / X	X / X
3580 Ultrium LTO Gen 2 Tape Drive [†]	X / X	X / X
3581 LTO Gen 2 Ultrium Tape Autoloader [†]	X / X	X / X
3582 Ultrium Tape Library [†]	X / X	X / X
3583 LTO Ultrium Scalable Tape Library [†]	X / X	X / X
3584 UltraScalable Tape Library [†]	X / X	X / X
3590 H11/H1A/E11/E1A Enterprise Tape Drive [†]	X / X	X / X
3592 Enterprise Tape Drive [†]	X / X	X / X
Benchmarks		
		(16-, 32-, 64-way 1.9 GHz SLES 9)
SPECfp_rate_base2000		-, 754 (SLES 9 SP1), -
SPECjbb2000		-, 1,076,309, -
Linpack HPC		-, 217,100, -

Product Line	IBM @server i5 520	IBM @server i5 550
Machine Type	9406-520	9406-550
System Packaging	19" rack drawer (4U); deskside	19" rack drawer (4U); deskside
Microprocessor type	64-bit POWER5	64-bit POWER5
# of processors / system and clock rates available	1- or 2-way 1.65 GHz	1-, 2- or 4-way 1.65 GHz
Linux Distributions *	RHEL AS 4 / SLES 9	RHEL AS 4 / SLES 9
Linux LPAR Support	X / X	X / X
Capacity on Demand (CoD) Features	- / -	X ⁹ / X ⁹
Storage Interfaces		
0627 PCI-X Dual Channel U320 SCSI RAID Adapter	X / X	X / X
0628 PCI-X Dual Channel Ultra320 SCSI RAID Adapter	X / X	X / X
5709 Planar Dual Channel SCSI RAID Adapter	X / X	X / X
0624 PCI-X Dual Channel Ultra320 SCSI Adapter	X / X	X / X
0645 PCI-X Dual Channel Ultra320 SCSI Adapter	X / X	X / X
6203 PCI Dual Channel Ultra3 SCSI Adapter	X / X	X / X
6204 PCI Universal Differential Ultra SCSI Adapter	X / X	X / X
0611 2 Gigaabit Fibre Channel PCI Adapter	X / X	X / X
0612 2 Gigaabit Fibre Channel PCI Adapter	X / X	X / X
0625 2 Gigaabit Fibre Channel PCI-X Adapter	X / X	X / X
0626 2 Gigaabit Fibre Channel PCI-X Adapter	X / X	X / X
Communications and Connectivity		
0632 2-Port USB PCI Adapter	X / X	X / X
0603 PCI 100 Mbps Token-Ring Adapter	X / X	X / X
0607 PCI 10/100 Mbps Ethernet Adapter	X / X	X / X
0623 PCI 10/100 Mbps Ethernet Adapter	X / X	X / X
0637 4-Port 10/100 Mbps Ethernet Adapter	X / X	X / X
4962 10/100 Mbps Ethernet PCI II Adapter	X / X	X / X
0620 Gigaabit Ethernet-SX PCI-X Adapter (Fibre)	X / X	X / X
0621 10/100/1000 Base-TX Ethernet PCI-X Adapter (Copper)	X / X	X / X
0643 2-Port 10/100/1000 Base-TX Ethernet PCI-X Adapter	X / X	X / X
0644 2-Port Gigaabit Ethernet-SX PCI-X Adapter (Fibre)	X / X	X / X
5718 10 Gigaabit Ethernet-SR PCI-X Adapter	P / X	P / X
Display Adapters^a		
2848 PCI 2D Graphics Accelerator GXT135	X / X	X / X
0633 PCI 2D Graphics Accelerator GXT135P	X / X	X / X
Disk Drives and Subsystems		
2591 External USB 1.44MB Diskette Drive	X / X	X / X
2104 Expandable Storage Plus	X / X	X / X
2105 Enterprise Storage Server	X / X	X / X
DS4000 Series ^e	X / X	X / X
DS6000 Series	X / X	X / X
DS8000 Series	X / X	X / X
Expansion Drawers		
7311-D10 I/O Drawer	X / X	X / X
7311-D11 I/O Drawer	- / -	X / X
7311-D20 I/O Drawer	X / X	X / X
Fibre Channel Directors, Switches and Hubs		
2031-016/032/216/224/232/L00 McDATA Fibre Channel	X / X	X / X
2032-001/064/140 McDATA Fibre Channel Director	X / X	X / X
2042-001/128/256 INRANGE FC/9000 Fibre Director	X / X	X / X
2062-D01/D04/T07 Cisco Fabric Switch / Director	X / X	X / X
2005-H08/H16 SAN Switch	X / X	X / X
3534-F08 SAN Switch	X / X	X / X
2109-F16/F32/M12/M14/S08/S16 SAN Switch	X / X	X / X
Optical Drives and Libraries		
4430 4.7GB SCSI DVD-RAM	X / X	X / X
4425 32X/40X CD-ROM	X / X	X / X
4625 40X CD-ROM auto-dock	X / X	X / X
4630 4.7GB SCSI DVD-RAM	X / X	X / X
4631 16/48X DVD-ROM auto-dock	X / X	X / X
2640 IDE Slimline DVD-ROM	X / X	X / X
5751 IBM 4.7GB IDE Slimline DVD-RAM Drive	X / X	X / X
4633 4.7GB SCSI DVD-RAM Drive	X / X	X / X
Tape Drives and Libraries		
3494 Enterprise Automated Tape Library ^f	X / X	X / X
3580 Ultrium LTO Gen 2 Tape Drive ^f	X / X	X / X
3581 LTO Gen 2 Ultrium Tape Autoloader ^f	X / X	X / X
3582 Ultrium Tape Library ^f	X / X	X / X
3583 LTO Ultrium Scalable Tape Library ^f	X / X	X / X
3584 UltraScalable Tape Library ^f	X / X	X / X
3590 H11/H1A/E11/E1A Enterprise Tape Drive ^f	X / X	X / X
3592 Enterprise Tape Drive ^f	X / X	X / X
1889 80GB VXA-2 Tape Drive	X / X	- / -
4684 30GB 1/4-Inch Cartridge Tape	X / X	X / X
4685 80GB VXA-2 Tape Drive	X / X	X / X
4687 50GB 1/4-Inch Cartridge Tape	X / X	X / X
5753 30GB 1/4-Inch Cartridge Tape	X / X	X / X
5754 50GB 1/4-Inch Cartridge Tape	X / X	X / X
6134 60/150GB 8 mm Tape Drive	X / X	- / -
6258 36/72GB 4 mm Tape bolt-in	X / X	- / -
4482 4GB QIC Tape	X / X	X / X

Product Line	IBM @server i5 520	IBM @server i5 550
Machine Type	9406-520	9406-550
System Packaging	19" rack drawer (4U); deskside	19" rack drawer (4U); deskside
4482 16GB QIC Tape	X / X	X / X
4483 16GB QIC Tape	X / X	X / X
4683 16GB QIC Tape	X / X	X / X
4486 25GB QIC Tape	X / X	X / X
4686 25GB QIC Tape	X / X	X / X
4487 50GB QIC Tape	X / X	X / X
WAN Adapters		
0608 PCI Two-Line WAN Adapter	X / X	X / X
0609 PCI Dual WAN/Modem	X / X	X / X
0610 PCI Dual WAN/Modem (ANSI)	X / X	X / X
0613 PCI Two-Line WAN Adapter	X / X	X / X
0614 PCI Two-Line WAN w/ Modem	X / X	X / X
0615 PCI Two-Line WAN w/Modem (CIM)	X / X	X / X
0616 PCI Quad Modem	X / X	X / X
0617 PCI Quad Modem (CIM)	X / X	X / X

Product Line	IBM @server i5 570	IBM @server i5 595
Machine Type	9406-570	9406-595
System Packaging	19" rack drawer (4U)	19" rack drawer (4U)
Microprocessor type	64-bit POWER5	64-bit POWER5
# of processors / system and clock rates available	2-, 4-, 8-, 12- or 16-way 1.65 GHz	8/16-, 16/32-, or 32/64-way 1.65 GHz
Linux Distributions *	RHEL AS 4 / SLES 9	RHEL AS 4 / SLES 9
Linux LPAR Support	X / X	X / X
Capacity on Demand (CoD) Features	X / X	X / X
Storage Interfaces		
0627 PCI-X Dual Channel U320 SCSI RAID Adapter	X / X	X / X
0628 PCI-X Dual Channel Ultra320 SCSI RAID Adapter	X / X	X / X
5709 Planar Dual Channel SCSI RAID Adapter	X / X	X / X
0624 PCI-X Dual Channel Ultra320 SCSI Adapter	X / X	X / X
0645 PCI-X Dual Channel Ultra320 SCSI Adapter	X / X	X / X
6203 PCI Dual Channel Ultra3 SCSI Adapter	X / X	X / X
6204 PCI Universal Differential Ultra SCSI Adapter	X / X	X / X
0611 2 Gigabit Fibre Channel PCI Adapter	X / X	X / X
0612 2 Gigabit Fibre Channel PCI Adapter	X / X	X / X
0625 2 Gigabit Fibre Channel PCI-X Adapter	X / X	X / X
0626 2 Gigabit Fibre Channel PCI-X Adapter	X / X	X / X
Communications and Connectivity		
0632 2-Port USB PCI Adapter	X / X	X / X
0603 PCI 100 Mbps Token-Ring Adapter	X / X	X / X
0607 PCI 10/100 Mbps Ethernet Adapter	X / X	X / X
0623 PCI 10/100 Mbps Ethernet Adapter	X / X	X / X
0637 4-Port 10/100 Mbps Ethernet Adapter	X / X	X / X
4962 10/100 Mbps Ethernet PCI II Adapter	X / X	X / X
0620 Gigabit Ethernet-SX PCI-X Adapter (Fibre)	X / X	X / X
0621 10/100/1000 Base-TX Ethernet PCI-X Adapter (Copper)	X / X	X / X
0643 2-Port 10/100/1000 Base-TX Ethernet PCI-X Adapter	X / X	X / X
0644 2-Port Gigabit Ethernet-SX PCI-X Adapter (Fibre)	X / X	X / X
5718 10 Gigabit Ethernet-SR PCI-X Adapter	P / X	P / X
Display Adapters^a		
2848 PCI 2D Graphics Accelerator GXT135	X / X	X / X
0633 PCI 2D Graphics Accelerator GXT135P	X / X	X / X
Disk Drives and Subsystems		
2591 External USB 1.44 MB Diskette Drive	X / X	X / X
2104 Expandable Storage Plus	X / X	X / X
2105 Enterprise Storage Server	X / X	X / X
DS4000 Series ^e	X / X	X / X
DS6000 Series	X / X	X / X
DS8000 Series	X / X	X / X
Expansion Drawers		
7311-D10 I/O Drawer	X / X	X / X
7311-D11 I/O Drawer	X / X	X / X
7311-D20 I/O Drawer	X / X	X / X
Fibre Channel Directors, Switches and Hubs		
2031-016/032/216/224/232/L00 McDATA Fibre Channel	X / X	X / X
2032-001/064/140 McDATA Fibre Channel Director	X / X	X / X
2042-001/128/256 INRANGE FC/9000 Fibre Director	X / X	X / X
2062-D01/D04/T07 Cisco Fabric Switch / Director	X / X	X / X
2005-H08/H16 SAN Switch	X / X	X / X
3534-F08 SAN Switch	X / X	X / X
2109-F16/F32/M12/M14/S08/S16 SAN Switch	X / X	X / X
Optical Drives and Libraries		
4430 4.7GB SCSI DVD-RAM	X / X	X / X
4425 32X/40X CD-ROM	X / X	X / X
4625 40X CD-ROM auto-dock	X / X	X / X
4630 4.7GB SCSI DVD-RAM	X / X	X / X
4631 16/48X DVD-ROM auto-dock	X / X	X / X
2640 IDE Slimline DVD-ROM	X / X	X / X
5751 IBM 4.7GB IDE Slimline DVD-RAM Drive	X / X	X / X
4633 4.7GB SCSI DVD-RAM Drive	X / X	X / X
Tape Drives and Libraries		
3494 Enterprise Automated Tape Library ^f	X / X	X / X
3580 Ultrium LTO Gen 2 Tape Drive ^f	X / X	X / X
3581 LTO Gen 2 Ultrium Tape Autoloader ^f	X / X	X / X
3582 Ultrium Tape Library ^f	X / X	X / X
3583 LTO Ultrium Scalable Tape Library ^f	X / X	X / X
3584 UltraScalable Tape Library ^f	X / X	X / X
3590 H11/H1A/E11/E1A Enterprise Tape Drive ^f	X / X	X / X
3592 Enterprise Tape Drive ^f	X / X	X / X
1889 80GB VXA-2 Tape Drive	- / -	- / -
4684 30GB 1/4-Inch Cartridge Tape	X / X	X / X
4685 80GB VXA-2 Tape Drive	X / X	X / X
4687 50GB 1/4-Inch Cartridge Tape	X / X	X / X
5753 30GB 1/4-Inch Cartridge Tape	X / X	X / X
5754 50GB 1/4-Inch Cartridge Tape	X / X	X / X
6134 60/150GB 8 mm Tape Drive	- / -	- / -
6258 36/72GB 4 mm Tape bolt-in	- / -	- / -

Product Line	IBM @server i5 570	IBM @server i5 595
Machine Type	9406-570	9406-595
System Packaging	19" rack drawer (4U)	19" rack drawer (4U)
4482 4GB QIC Tape	X / X	X / X
4682 4GB QIC Tape	X / X	X / X
4483 16GB QIC Tape	X / X	X / X
4683 16GB QIC Tape	X / X	X / X
4486 25GB QIC Tape	X / X	X / X
4686 25GB QIC Tape	X / X	X / X
4487 50GB QIC Tape	X / X	X / X
WAN Adapters		
0608 PCI Two-Line WAN Adapter	X / X	X / X
0609 PCI Dual WAN/Modem	X / X	X / X
0610 PCI Dual WAN/Modem (ANSI)	X / X	X / X
0613 PCI Two-Line WAN Adapter	X / X	X / X
0614 PCI Two-Line WAN w/ Modem	X / X	X / X
0615 PCI Two-Line WAN w/Modem (CIM)	X / X	X / X
0616 PCI Quad Modem	X / X	X / X
0617 PCI Quad Modem (CIM)	X / X	X / X

Product Line	IBM @server pSeries® 615	IBM @server pSeries 630
Machine Type	7029-6C3 / 7029-6E3	7028-6C4 / 7028-6E4
System Packaging	19" rack drawer (4U); deskside	19" rack drawer (4U); deskside
Microprocessor type	64-bit POWER4+™	64-bit POWER4+
# of processors / system and clock rates available	1- or 2-way 1.2 GHz / 1.45 GHz ⁿ	1-,2- or 4-way 1.2 GHz / 1.45 GHz ⁿ
Linux Distributions *	RHEL AS 4 / SLES 9	RHEL AS 4 / SLES 9
Linux LPAR Support	- / -	X / X
Capacity on Demand (CoD) Features	- / -	- / -
Storage Interfaces		
5703/5711 PCI-X Dual Channel Ultra320 SCSI RAID Adapter	X / X	X / X
5709 Dual Channel SCSI RAID Enablement Card	X / X	- / -
5710/5712 PCI-X Dual Channel Ultra320 SCSI Adapter	X / X	X / X
6203 PCI Dual Channel Ultra3 SCSI Adapter	X / X	X / X
6204 PCI Universal Differential Ultra SCSI Adapter	X / X	X / X
6228 2 Gigabit Fibre Channel PCI Adapter	X / X	X / X
6239 2 Gigabit Fibre Channel PCI-X Adapter	X / X	X / X
5716 2 Gigabit Fibre Channel PCI-X Adapter	X / X	X / X
Communications and Connectivity		
2738 2-Port USB PCI Adapter	X / X	X / X
4961 4-Port 10/100 Mbps Ethernet Adapter	X / X	X / X
4962 1-Port 10/100 Mbps Ethernet Adapter	X / X	X / X
5700 Gigabit Ethernet-SX PCI-X Adapter (Fibre)	X / X	X / X
5701 10/100/1000 Base-TX Ethernet PCI-X Adapter (Copper)	X / X	X / X
5706 2-Port 10/100/1000 Base-TX Ethernet PCI-X	X / X	X / X
5707 2-Port Gigabit Ethernet-SX PCI-X Adapter	X / X	X / X
5718 10 Gigabit Ethernet-SR PCI-X Adapter	P / X	P / X
5719 10 Gigabit Ethernet-LR PCI-X Adapter	P / X	P / X
5723 2-Port Asynchronous EIA-232 PCI Adapter ^d	P / X	P / X
Display Adapters ^a		
2848 PCI 2D Graphics Accelerator GXT135	X / X	X / X
2849 PCI 2D Graphics Accelerator GXT135P	X / X	X / X
Disk Drives and Subsystems		
2591 External USB 1.44MB Diskette Drive	X / X	X / X
2104 Expandable Storage Plus	X / X	X / X
2105 Enterprise Storage Server	X / X	X / X
DS4000 Series ^e	X / X	X / X
DS6000 Series	X / X	X / X
DS8000 Series	X / X	X / X
Expansion Drawers		
7311-D20 I/O Drawer	- / -	X / X
Fibre Channel Directors, Switches and Hubs		
2031-016/032/216/224/232/L00 McDATA Fibre Channel Switch	X / X	X / X
2032-001/064/140 McDATA Fibre Channel Director	X / X	X / X
2042-001/128/256 INRANGE FC/9000 Fibre Director	X / X	X / X
2062-D01/D04/T07 Cisco Fabric Switch / Director	X / X	X / X
2005-H08/H16 SAN Switch	X / X	X / X
3534-F08 SAN Switch	X / X	X / X
2109-F16/F32/M12/M14/S08/S16 SAN Switch	X / X	X / X
Optical Drives and Libraries		
2623/2627 4.7GB SCSI DVD-RAM	- / X	- / X
2633 IDE 48X CD-ROM	- / -	X / X
2634 16/48X DVD-ROM	- / -	X / X
2640 IDE Slimline DVD-ROM	X / X	- / -
5751 IBM 4.7GB IDE Slimline DVD-RAM Drive	X / X	- / -
5752 4.7GB SCSI DVD-RAM Drive	X / X	X / X
Tape drives and libraries		
3494 Enterprise Automated Tape Library ^f	X / X	X / X
3580 Ultrium LTO Gen 2 Tape Drive ^f	X / X	X / X
3582 Ultrium Tape Library ^f	X / X	X / X
3584 UltraScalable Tape Library ^f	X / X	X / X
3590 H11/H1A/E11/E1A Enterprise Tape Drive ^f	X / X	X / X
3592 Enterprise Tape Drive ^f	X / X	X / X
6120 80/160 GB Tape Drive with VXA Technology	X / X	X / X
6134 60/150GB 8 mm Tape Drive	X / X	X / X
6158 20/40GB 4 mm Tape Drive	X / X	X / X
6258 36/72GB 4 mm Tape bolt-in	X / X	X / X
Benchmark		
	(1-way; 1.2 GHz, 1.45 GHz SLES 8)	(1-way; 1.2 GHz, 1.45 GHz SLES 8)
SPECint_base2000	727, -	720, -
SPECfp_base2000	877, -	852, -
SPECint_base2000	-	-, 856
SPECfp_base2000	-	-, 984

Product Line	IBM @server pSeries 650	IBM @server pSeries 655
Machine Type	7038-6M2	7039-651
System Packaging	19" rack drawer (8U - system / 4U - I/O)	24" system frame
Microprocessor type	64-bit POWER4+	64-bit POWER4+
# of processors / system and clock rates available	2-, 4-, 6- or 8-way 1.2 GHz / 1.45 GHz	4- or 8-way 1.7 GHz
Linux Distributions *	RHEL AS 4 / SLES 9	RHEL AS 4 / SLES 9 ^c
Linux LPAR Support	X / X	X / X
Capacity on Demand (CoD) Features	X / X	- / -
Storage Interfaces		
5703/5711 PCI-X Dual Channel Ultra320 SCSI RAID Adapter	X / X	X / X
5709 Dual Channel SCSI RAID Enablement Card	- / -	- / -
5710/5712 PCI-X Dual Channel Ultra320 SCSI Adapter	X / X	X / X
6203 PCI Dual Channel Ultra3 SCSI Adapter	X / X	X / X
6204 PCI Universal Differential Ultra SCSI Adapter	X / X	X / X
6228 2 Gigabit Fibre Channel PCI Adapter	X / X	X / X
6239 2 Gigabit Fibre Channel PCI-X Adapter	X / X	X / X
5716 2 Gigabit Fibre Channel PCI-X Adapter	X / X	X / X
Communications and Connectivity		
2738 2-Port USB PCI Adapter	X / X	X / X
4961 4-Port 10/100 Mbps Ethernet Adapter	X / X	X / X
4962 1-Port 10/100 Mbps Ethernet Adapter	X / X	X / X
5700 Gigabit Ethernet-SX PCI-X Adapter (Fibre)	X / X	X / X
5701 10/100/1000 Base-TX Ethernet PCI-X Adapter (Copper)	X / X	X / X
5706 2-Port 10/100/1000 Base-TX Ethernet PCI-X	X / X	X / X
5707 2-Port Gigabit Ethernet-SX PCI-X Adapter	X / X	X / X
5718 10 Gigabit Ethernet-SR PCI-X Adapter	P / X	P / X
5719 10 Gigabit Ethernet-LR PCI-X Adapter	P / X	P / X
5723 2-Port Asynchronous EIA-232 PCI Adapter ^d	P / X	P / X
Display Adapters^a		
2848 PCI 2D Graphics Accelerator GXT135	X / X	X / X
2849 PCI 2D Graphics Accelerator GXT135P	X / X	X / X
Disk Drives and Subsystems		
2591 External USB 1.44MB Diskette Drive	X / X	X / X
2104 Expandable Storage Plus	X / X	X / X
2105 Enterprise Storage Server	X / X	X / X
DS4000 Series ^e	X / X	X / X
DS6000 Series	X / X	X / X
DS8000 Series	X / X	X / X
Expansion Drawers		
7040-61D I/O Drawer	- / -	X / X
7311-D10 I/O Drawer	X / X	- / -
7311-D20 I/O Drawer	X / X	- / -
Fibre Channel Directors, Switches and Hubs		
2031-016/032/216/224/232/L00 McDATA Fibre Channel Switch	X / X	X / X
2032-001/064/140 McDATA Fibre Channel Director	X / X	X / X
2042-001/128/256 INRANGE FC/9000 Fibre Director	X / X	X / X
2062-D01/D04/T07 Cisco Fabric Switch / Director	X / X	X / X
2005-H08/H16 SAN Switch	X / X	X / X
3534-F08 SAN Switch	X / X	X / X
2109-F16/F32/M12/M14/S08/S16 SAN Switch	X / X	X / X
Optical Drives and Libraries		
2628 40X CD-ROM auto-dock	X / X	- / -
2629 4.7GB SCSI DVD-RAM	X / X	- / -
2635 16/48X DVD-ROM auto-dock	X / X	- / -
Tape Drives and Libraries		
3494 Enterprise Automated Tape Library ^f	X / X	X / X
3580 Ultrium LTO Gen 2 Tape Drive [†]	X / X	X / X
3582 Ultrium Tape Library [†]	X / X	X / X
3584 UltraScalable Tape Library [†]	X / X	X / X
3590 H11/H1A/E11/E1A Enterprise Tape Drive [†]	X / X	X / X
3592 Enterprise Tape Drive [†]	X / X	X / X
6131 60/150GB 8 mm Tape auto-dock	X / X	- / -
6158 20/40GB 4 mm Tape Drive	X / X	X / X
6258 36/72GB 4 mm Tape bolt-in	X / X	X / X
6185 20/40GB 4 mm Tape auto-dock	X / X	- / -
Benchmarks		
	(1-way; 1.45 GHz SLES 8)	(1-way; 1.7 GHz SLES 8)
SPECint_base2000	886	1,031, 1,023 (LPAR)
SPECfp_base2000	1,091	1,405, 1,405 (LPAR)

Product Line	IBM @server pSeries 670	IBM @server pSeries 690
Machine Type	7040-671	7040-681
System Packaging	24" system frame	24" system frame (+ I/O frame)
Microprocessor type	64-bit POWER4+	64-bit POWER4+
# of processors / system and clock rates available	4-, 8- or 16-way 1.5 GHz	8-, 16-, 24- or 32-way 1.5 GHz, 1.7 GHz, 1.9 GHz
Linux Distributions *	RHEL AS 4 / SLES 9	RHEL AS 4 / SLES 9
Linux LPAR Support	X / X	X / X
Capacity on Demand (CoD) Features	X / X	X / X
Storage Interfaces		
5703/5711 PCI-X Dual Channel Ultra320 SCSI RAID Adapter	X / X	X / X
5710/5712 PCI-X Dual Channel Ultra320 SCSI Adapter	X / X	X / X
6203 PCI Dual Channel Ultra3 SCSI Adapter	X / X	X / X
6204 PCI Universal Differential Ultra SCSI Adapter	X / X	X / X
6228 2 Gigabit Fibre Channel PCI Adapter	X / X	X / X
6239 2 Gigabit Fibre Channel PCI-X Adapter	X / X	X / X
5716 2 Gigabit Fibre Channel PCI-X Adapter	X / X	X / X
Communications and Connectivity		
2738 2-Port USB PCI Adapter	X / X	X / X
4961 4-Port 10/100 Mbps Ethernet Adapter	X / X	X / X
4962 1-Port 10/100 Mbps Ethernet Adapter	X / X	X / X
5700 Gigabit Ethernet-SX PCI-X Adapter (Fibre)	X / X	X / X
5701 10/100/1000 Base-TX Ethernet PCI-X Adapter (Copper)	X / X	X / X
5706 2-Port 10/100/1000 Base-TX Ethernet PCI-X	X / X	X / X
5707 2-Port Gigabit Ethernet-SX PCI-X Adapter	X / X	X / X
5718 10 Gigabit Ethernet-SR PCI-X Adapter	P / X	P / X
5719 10 Gigabit Ethernet-LR PCI-X Adapter	P / X	P / X
5723 2-Port Asynchronous EIA-232 PCI Adapter ^b	P / X	P / X
Display Adapters ^a		
2848 PCI 2D Graphics Accelerator GXT135	X / X	X / X
2849 PCI 2D Graphics Accelerator GXT135P	X / X	X / X
Disk Drives and Subsystems		
2591 External USB 1.44MB Diskette Drive	X / X	X / X
2104 Expandable Storage Plus	X / X	X / X
2105 Enterprise Storage Server	X / X	X / X
DS4000 Series ^e	X / X	X / X
DS6000 Series	X / X	X / X
DS8000 Series	X / X	X / X
Expansion Drawers		
7040-61D I/O Drawer	X / X	X / X
Fibre Channel Directors, Switches and Hubs		
2031-016/032/216/224/232/L00 McDATA Fibre Channel Switch	X / X	X / X
2032-001/064/140 McDATA Fibre Channel Director	X / X	X / X
2042-001/128/256 INRANGE FC/9000 Fibre Director	X / X	X / X
2062-D01/D04/T07 Cisco Fabric Switch / Director	X / X	X / X
2005-H08/H16 SAN Switch	X / X	X / X
3534-F08 SAN Switch	X / X	X / X
2109-F16/F32/M12/M14/S08/S16 SAN Switch	X / X	X / X
Optical Drives and Libraries		
2623/2627 4.7GB SCSI DVD-RAM	- / X	- / X
2624 32X/40X CD-ROM	X / X	X / X
2634 16/48X DVD-ROM	X / X	X / X
Tape Drives and Libraries		
3494 Enterprise Automated Tape Library ^f	X / X	X / X
3580 Ultrium LTO Gen 2 Tape Drive ^f	X / X	X / X
3582 Ultrium Tape Library ^f	X / X	X / X
3584 UltraScalable Tape Library ^f	X / X	X / X
3590 H11/H1A/E11/E1A Enterprise Tape Drive ^f	X / X	X / X
3592 Enterprise Tape Drive ^f	X / X	X / X
6120 80/160 GB Tape Drive with VXA Technology	X / X	X / X
6158 20/40GB 4 mm Tape Drive	X / X	X / X
6258 36/72GB 4 mm Tape bolt-in	X / X	X / X
Benchmarks	-	(16-way; 1.7GHz SLES 8 SP3)
SPECjbb2000	-	256,002

POWER™ Systems Supporting Linux

Machine	Processor	HW withdrawn from Mktg	Red Hat RHEL 4	Red Hat RHEL 3	Red Hat 7.1	SUSE LINUX SLES 9	SUSE LINUX SLES 8
9123-710	POWER5	-	X	X		X	
9110-510 (p5-510)	POWER5	-	X	X		X	
9119-595 (p5-595)	POWER5	-	X	X		X	
9406-595 (i5-595)	POWER5	-	X	X		X	
9119-590 (p5-590)	POWER5	-	X	X		X	
9406-550 (i5-550)	POWER5	-	X	X		X	
9124-720	POWER5	-	X	X		X	
9111-520 (p5-520)	POWER5	-	X	X		X	
9113-550 (p5-550)	POWER5	-	X	X		X	
9117-570 (p5-570)	POWER5	-	X	X		X	
9406-570 (i5-570)	POWER5	-	X	X		X	
9406-520 (i5-520)	POWER5	-	X	X		X	
8842 4TX (JS20)	970	-	X	X		X	X
8842 42X (JS20)	970	-	X	X		X	X
8842 41X (JS20)	970	8/26/05	X	X		X	X
8842 21X (JS20)	970	1/28/05		X		X	X
7029-6C3 (p615)	POWER4™	-	X	X		X	X
7029-6E3 (p615)	POWER4	-	X	X		X	X
9406-890	POWER4	-	X	X	X	X	X
9406-870	POWER4	-	X	X	X	X	X
9406-825	POWER4	-	X	X	X	X	X
7039-651 (p655)	POWER4	11/18/05	X	X		X	X
7038-6M2 (p650)	POWER4	6/21/05	X	X		X	X
7028-6C4 (p630)	POWER4	-	X	X		X	X
7028-6E4 (p630)	POWER4	-	X	X		X	X
7040-671 (p670)	POWER4	11/18/05	X	X		X	X
7040-681 (p690)	POWER4	11/18/05	X	X		X	X
9406-800	SSTAR	-	X	X	X	X	X
9406-810	SSTAR	-	X	X	X	X	X
9406-270	SSTAR	11/21/03	X	X	X	X	X
9406-820	SSTAR	11/21/03	X	X	X	X	X
9406-830	SSTAR	11/21/03	X	X	X	X	X
9406-840	SSTAR	11/21/03	X	X	X	X	X
7028-6C1 (p610)	POWER3™	3/9/04					X
7028-6E1 (p610)	POWER3	3/9/04					X
7026-B80 (p640)	POWER3	12/31/03			X		X
7044-170	POWER3	12/31/03					X
7044-270	POWER3	12/31/03					X
7025-6F0 (p620)	RS64	9/12/03			X		X
7025-6F1 (p620)	RS64	9/12/03			X		X
7026-6H0 (p660)	RS64	9/12/03			X		X
7026-6H1 (p660)	RS64	9/12/03			X		X
7026-6M1 (p660)	RS64	9/12/03			X		X

Product Line
Machine Type
System Packaging

IBM @server BladeCenter™ JS20
8842-41X / 8842-42X / 8842-42T
blade server (rack drawer)
(14 server blades per 7U chassis)
(8 server blades per 8U BladeCenter T chassis)^h
(84 server blades per 42U rack)
(40 server blades per 84-inch telecommunications rack)^h

Microprocessor type 64-bit IBM PowerPC® 970
of processors / system and clock rates available 2-way 2.2 GHz

System Memory DDR ECC Memory (standard – maximum) 512MB – 8GB / 1G – 8G / 1G – 8G^k
Data - instruction (L1) cache 64KB/32KB
Level 2 (L2) cache 512KB
Level 3 (L3) cache -

Reliability, availability, serviceability
ECC memory X / X / X
Service processor X / X / X
Light Path diagnostics X / X / X
Hot-swap disk bays - / - / -
Redundant hot-swap power supply O / O / O
Redundant hot-swap cooling fans X / X / X
NEBS 3 Compliant - / - / X

Capacity
Maximum I/O Expansion connections I PCI-X (64 bit)
Maximum PCI bus speed (MHz) 133
Disk bays (minimum/maximum) 1 / 2
Number of internal IDE disks 1 - 2
Internal IDE storage (1 or 2 40GB or 60GB drives) (minimum/maximum) 40GB / 120GB^j
Internal SCSI storage (minimum/maximum) -
SCSI storage expansion -

Communications and connectivity
Serial/asynchronous X
Integrated Gigabit Ethernet Controllers 2

	RHEL AS 3	RHEL AS 4	SLES 8, SP3A or later	SLES 9	AIX 5L™ 5.2 APAR 1Y60347 or later ⁱ	AIX 5L 5.3 APAR 1Y62267 or later
OS Support	X	X	X	X	X	X
CSM for Linux on POWER V1.4.1	X	X	X	X	-	-
CSM for AIX 5L V1.4.1	-	-	-	-	X	X
IBM ESSL for Linux V4.2	X	X	X	X	-	-
IBM ESSL for AIX 5L V4.2	-	-	-	-	X	X
Linux Distributions orderable from IBM *	X	-	-	X	N/A	N/A
LPAR Support	-	-	-	-	-	-
Storage Interfaces						
Integrated ATA-100 IDE controller	X	X	X	X	X	X
73P6112 IBM JS20 Fibre Channel Daughter Card	X	X	X	X	X	X
SCSI and RAID Controllers						
73P6112 JS20 Fibre Channel Expansion Card	X	X	X	X	X	X
26K6457 Topspin InfiniBand Host Channel Adapter	X	X	X	X	P	P
Communications and Connectivity						
73P9030 IBM BladeCenter Gigabit Ethernet Expansion Card	X	X	X	X	X	X
73P6000 Myricom Myrinet Expansion Card	X	X	X	X	X	X
Disk Drives and Subsystems						
25R6906 Internal 40GB 5400 rpm ATA-100 IDE Drive	X	X	X	X	X	X
25R6904 Internal 60GB 5400 rpm ATA-100 IDE Drive	X	X	X	X	X	X
2105 Enterprise Storage Server	X	X	X	X	X	X
DS4000 Series	X	X	X	X	X	X
DS6000 Series	P	P	P	P	P	P
DS8000 Series	P	P	P	P	P	P
BladeCenter Switch Modules						
48P7062 Blade Center 2-Port Fibre Channel Switch Module	X	X	X	X	X	X
73P6100 IBM eServer™ BladeCenter Copper Pass-thru Module	X	X	X	X	X	X
13N2281 Cisco Systems® Intelligent Gigabit Ethernet Switch Module ^l	X	X	X	X	X	X
13N0568 IBM BladeCenter 4-Port Gb Ethernet Switch Module ^l	X	X	X	X	X	X
73P9057 Nortel Networks® Layer 2-7 Gigabit Ethernet Switch Module ^l	X	X	X	X	X	X
26K6477 QLogic Enterprise 6-port Fibre Channel Switch Module	X	X	X	X	X	X
90P0165 Brocade® Enterprise SAN Switch Module	X	X	X	X	X	X
26K5601 Brocade Entry SAN Switch Module	X	X	X	X	X	X
49P2694 BladeCenter Acoustic Attenuation Module	X	X	X	X	X	X
02R9080 IBM BladeCenter Optical Pass-thru Module	X	X	X	X	X	X
Fibre Channel Directors, Switches and Hubs						
2031-016/032/216/224/232/L00 McDATA Fibre Channel Switch	X	X	X	X	X	X
2032-001/064/140 McDATA Fibre Channel Director	X	X	X	X	X	X
2042-001/128/256 INRANGE FC/9000 Fibre Director	X	X	X	X	X	X
2062-D01/D04/T07 Cisco Fabric Switch / Director	X	X	X	X	X	X
2005-H08/H16 SAN Switch	X	X	X	X	X	X
3534-F08 SAN Switch	X	X	X	X	X	X

2109-F16/F32/M12/M14/S08/S16 SAN Switch	X	X	X	X	X	X
Internal Optical and Tape Drives						
USB CD-ROM	X	X	X	X	X	X
USB Floppy Drive	X	X	X	X	X	X
USB DVD-ROM	X	X	X	X	X	X
External Tape Drives and Libraries						
3494 Enterprise Automated Tape Library [†]	-	-	-	-	-	-
3580 Ultrium LTO Gen 2 Tape Drive [†]	-	-	-	-	-	-
3581 LTO Gen 2 Ultrium Tape Autoloader [†]	-	-	-	-	-	-
3582 Ultrium Tape Library [†]	X	X	X	X	-	-
3583 LTO Ultrium Scalable Tape Library [†]	X	X	X	X	-	-
3584 UltraScalable Tape Library [†]	X	X	X	X	-	-
3590 H11/H1A/E11/E1A Enterprise Tape Drive [†]	-	-	-	-	-	-
3592 Enterprise Tape Drive [†]	-	-	-	-	-	-
Benchmarks						
Linpack HPC	(2-way; 2.2 GHz SLES 9)				-	-
	13,270					

For the latest information reference the Server Proven website at:

<http://www.ibm.com/servers/eserver/serverproven/compat/us/blade/8842.html>

Guidelines

JS20 General Guidelines

BladeCenter SCSI Storage Expansion Unit (sidecar) is currently not available

Serial over LAN (SoL) is the method used to support OS installation, monitoring and control the JS20. A keyboard/video/mouse (KVM) Management Module is not required.

SoL communication requires a supported Gigabit ethernet switch module to be installed in bay 1 of the BladeCenter chassis.

When ethernet boot is employed, a 2nd supported ethernet switch must also be installed

When performing network boot, the boot server must be on the same subnet as the JS20

BASP is not supported, use BONDING .O module

Red Hat Enterprise Level 3 U2 Guidelines when used with JS20

Direct attach of FASiT storage is supported by installing an external switch

Failover to a backup switch is not supported for FASiT storage

The Alteon switch is not supported

Failover to a backup is not supported with an Optical Pass-thru Module (OPM) interface to an ethernet switch network

IBM Director 4.12 and 4.2 Guidelines when used with JS20

OS deployment is handled via CSM instead of RDM

Hardware Inventory, hardware alerts, and hardware health status are available from the chassis query via the management module (out of band)

Management Processor assistant is available from the chassis query via the management module (out of band)

Asset ID is currently not available

Configuration of the SNMP agent is done through the management module web tool

Network Configuration is handled via the WebSM tool for AIX 5L

Configuring operating system accounts via system accounts is not available

Optional IBM Director 4.12 and 4.2 (Advanced Server Management) Guidelines

Capacity Manager is not currently available

System Availability is not currently available

Software Rejuvenation is not currently available

Active PCI Manager is not currently available

Real Time diagnostics is available from the chassis query via the management module

Upward Integration to other Applications from IBM Director

Tivoli® Enterprise and Tivoli NetView alerts are available via the management module

CA Unicenter alerts are available via the management module

Footnotes

X	=	Supported
P	=	Planned (anticipated to be available from Linux distributors 2Q2005)
O	=	Optionally Available
-	=	Not Supported
N/A	=	Not Applicable
SOD	=	Statement of General Direction Announced

* Linux distributions are orderable from IBM as follows:
SUSE LINUX Enterprise Server 9 available as 5639-SLP
Red Hat Enterprise Linux AS 3 available as 5639-RDH

* RHEL AS 4 = Red Hat Enterprise Linux AS 4 for POWER
More information is available at: (<http://www.redhat.com/software/rhel/as/>)
SLES 9 = SUSE LINUX Enterprise Server 9 for POWER
More information is available at: (http://www.suse.com/us/business/products/server/sles/i_pseries.html)

- a For versions of the GXT135P (Feature Codes 2848 and 2849) with a digital port as VGA1, please see http://www.ibm.com/servers/eserver/pseries/linux/sles8_release_notes.pdf for information on configuring this card for use with Linux. There is limited native X-Windows and graphics support on these adapters. Remote X-Windows capabilities are fully enabled. Graphics adapters do not function properly when the system is configured for LPAR.
- b Note that SLES 9 SP1 is the lowest SUSE LINUX version supported with the 2-port Asynchronous EIA-232 PCI Adapter (Feature Code 5723) on POWER.
- c Support for Linux running in single system image mode (non-LPAR) requires a network attached pSeries system with AIX 5L™. Linux running in an LPAR on the p655 requires either AIX 5L in an LPAR on the p655 or a network attached pSeries system with AIX 5L.
- e Updates and restrictions regarding TotalStorage® DS4000 Series (formerly FASiT Family) support:
- SLES 9 and SLES 9 SP1 single path attachment from a pSeries server to DS4000 is provided.
 - SLES 8 SP3 Multi-path failover support is available via the Emulex MultiPulse driver. The Emulex FC MultiPulse Device Driver for IBM pSeries OEM-ed adapter (9802 and 9002L) required to support path failover can be found at the following Web site: <http://www.emulex.com/ts/docoem/framibm.htm>
 - RHEL AS 3 U4 with Multi-path RDAC failover is supported (Note that RHEL AS 3 U4 is the lowest RH revision supported with Linux on POWER).
 - Multi-path failover support is not available for SLES9 or RHEL4 at this time.
 - Multiple 6228 host bus adapters (HBA) are supported in a pSeries server provided the DS4000 logical volumes (LUNs) are masked to only one HBA with DS4000 Storage Partitions or SAN switch zoning.
 - Attachment from pSeries can be: direct attach or through IBM Fibre Channel Switch (2109/3534) fabrics (Quick loop mode not supported) or McDATA Director/Switch fabrics (2031/2032).
- f Enterprise and Ultrium tape drives are only supported via Fibre Channel attachment.
- g The 1.65 GHz p5-550 and i5-550 servers have processor CoD capabilities; The 1.5 GHz p5-570 has memory CoD capabilities; 1.65 and 1.9 GHz models have memory and processor CoD.
- h JS20 Model 8842-41X and 8842-42X blades may be installed in the BladeCenter T chassis, but have not been tested for NEBS 3 compliance.
- i The AIX 5L V5.2 5200-05 Maintenance Package (APAR IY66260) is recommended.
- j The second drive position cannot be used when the Fibre Channel Expansion Card, Myrinet Cluster Expansion Card, Dual Gigabit Ethernet Expansion Card or Topspin InfiniBand Host Channel Adapter Expansion Card is installed.
- K The JS20 blade provides four memory DIMM sockets. Memory DIMMs of the same capacity must be installed in pairs, but pairs of two different capacities may be installed.
- I Serial over LAN supported.

More Information

Further details on the support of Linux distributions on IBM pSeries servers is contained in a white paper, "Linux on IBM @server pSeries Overview", available at

http://www.ibm.com/servers/eserver/pseries/linux/whitepapers/linux_pseries.html.



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The IBM home page on the Internet can be found at <http://www.ibm.com>.

The pSeries home page on the Internet can be found at <http://www.ibm.com/servers/eserver/pseries>.

The Linux for pSeries home page on the Internet can be found at <http://www.ibm.com/linux/power>.

The OpenPower home page on the Internet can be found at <http://www.ibm.com/eserver/openpower>.