



IBM'S POWER5-BASED P5 UNIX [& I5/OS] SERVERS (FEBRUARY 08, 2005)

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Introduced	2/2005	Standard Models: 7/2004 Express: 10/2004		7/2004	11/2004	10/2005 [10 days after 520E & 550E]	
Form Factor	19" rack 2U	Deskside or 19" rack 4U		19" rack 4U	24" frame (+ expansion for 590/595)		
Clock speeds	1.5GHz for Express models 1.65GHz for Standard with 1.9GHz option for 570				1.9GHz	1.65GHz	1.65 or 1.9GHz
Max # of processors	2		4	E: 8; S: 16	8	32	64
n-way options	1 or 2	E: 1 or 2 S: 2	E: 1, 2 or 4 S: 2 or 4	E: 2, 4 or 8 S: 2, 4, 8, 12 or 16	8	8, 16 or 32	16, 32, 48 or 64
Operating Systems	AIX 5L v5.2(+), Linux (Red Hat & SUSE)			AIX 5L v5.2(+), Linux (Red Hat & SUSE), i5/OS			
Level 1 cache	32KB – 64KB per processor						
Level 2 cache	1.9MB per processor MCM				15.2MB	7.6MB per MCM	
Level 3 cache	36MB per processor MCM				288MB	144MB per MCM	
Min/Max. memory (GBs)	.05/32	E: .05/32 S: 1/32	E: .05/64 S: 1/64	E: 2/256 S: 2/512	1/256	8GB/1TB	8GB/2TB
LPARs	up to 10 per processor (in 1/100 th of a processor increments)			160	80	254	
Virtual LAN & Virtual I/O	Optional					Standard	
Processor CUoD	No		Just on Standard Model	Just on Standard Model	No	Yes	
On/Off Processor CoD							
Reserve CoD			No				
Memory CUoD							
On/Off Memory CoD							
Max. PCI slots	3	34	60	S: 163	24	160	240
Max. disk storage (TB)	0.5	8.2	15.2	S: 38.7	1.4	9.3	14
SPECfp_base2000 rating	2,071	2,034	2,121	2,576 (1.9GHz)	2,413	2,223	2,585 (1.9GHz)
<i>For comparison, the SPECfp_base2000 rating for the IBM p690 with 1.7GHz POWER4+ is 1,598</i>							
SPECjbb2000 rating	76,040 (1.65GHz, 2way)	75,607 (1.65GHz, 2way)		633,106 (1.9GHz, 16-way)			2,200,162 (1.9GHz, 64-way)
<i>For comparison, the SPEC jbb2000 rating for the IBM p69, 32-way, with 1.7GHz POWER4+ is 553,480</i>							
Start price	\$4,799	\$4,971	\$10,000	\$24,927		\$27,000	\$92,000