



ORACLE

IBM eserver pSeries 680

Model 7017-S85

TPC-C Rev. 5.0 Upgrade
From TPC-C Rev. 3.5Report Date: June 22, 2001
October 16, 2000 (original)

Description	Part No.	Source	Unit Price	Qty	Ext Price	Maint Price
Server Hardware						
IBM eserver pSeries 680	7017-S85	1	11,188	1	11,188	22,584
16bit PCI SCSI cables	2447	1	75	1	75	0
32x CD-ROM drive	2624	1	375	1	375	0
9.1 GB 1" Ultra SCSI Hot Sw ap	2913	1	0	2	0	0
Async/Terminal Cable	2934	1	45	1	45	0
8-port Async Adapter, EIA-232/422	2943	1	1,395	1	1,395	0
10/100 Mbs Ethernet PCI Adapter	2968	1	275	14	3,850	0
9.1 GB 10K RPM 1" Ultra SCSI Hot Sw ap Disk	3002	1	1,260	2	2,520	0
Remote I/O Cable (3142, 3143) set	3142	1	4,170	1	4,170	0
16384 MB (4x4096) R1 Memory	4194	1	147,456	2	294,912	0
32768 MB (4x8192) R1 Memory	4195	1	294,912	2	589,824	0
6w ay 600Mhz RS64 IV Proc, 16MB L2	5320	1	230,000	1	230,000	55,776
6w ay 600Mhz RS64 IV Proc, 16MB L2	5321	1	250,000	3	750,000	167,328
I/O Pow er Cable set (1-6000 & 5-6008) set	6000	1	625	1	625	0
1000 Watt AC Pow er Supply	6193	1	765	1	765	0
Pow er Regulators (6194, 6195)	6194	1	2,505	1	2,505	0
Ultra SCSI PCI-Bus Adapter	6206	1	395	2	790	0
Advanced SerialRAID Adapter	6230	1	3,000	19	57,000	0
32 MB Fast-Write Cache Option	6235	1	575	3	1,725	0
SCSI I/O Draw er, 10 EIA	6320	1	23,766	4	95,064	0
Primary I/O Draw er Group	6321	1	600	1	600	0
Secondary I/O Draw er Group	6323	1	734	3	2,202	0
Support Processor Group	6326	1	2,700	1	2,700	0
Remote I/O Hub, Dual Loop	6503	1	8,000	1	8,000	0
SCSI 6-pack Hot Sw ap Back Plane	6547	1	600	1	600	0
I/O Rack(6098, 6107)	7036	1	3,550	2	7,100	1,536
Prestige 6000VA, 208-240V UPS	9910-EP8	1	6,625	1	6,625	0
Prestige EXT UPS, Rack Mount	9910-U33	1	3,822	2	7,644	0
System Rack Model S00(6098,6107)	7014-T00	1	3,550	10	35,500	7,680
Additional Pow er Distribution Unit	6171	1	1,000	20	20,000	0
SSA Disk Subsystem, Black Cover	7133-D40	1	13,000	90	1,170,000	397,440
50/60 Hz AC, 300 VDC Pow er Supply	8022	1	2,000	90	180,000	0
18 GB Disk Drive Modules	8518	1	4,500	751	3,379,500	0
9 GB Disk Drive Modules	8509	1	2,760	685	1,890,600	0
SSA Cables	8802	1	125	90	11,250	0
Subtotal					8,769,149	652,344
Server Software						
AIX 4.3.S for S85(Media only)	5765-C34	1	50	1	50	33,144
IBM C for AIX V5	5765-E32	1	799	1	799	24,690
Oracle8i (TM) Enterprise Edition Release 3 (8.17,		2	666,900	1	666,900	926,640
Subtotal					667,749	984,474
Client Hardware						
RS/6000 Model 44P-270 w/ CD-ROM	7044-270	1	5,649	10	56,490	16,800
9.1 GB 10K RPM Ultra SCSI Enhanced Disk	2906	1	1,260	10	12,600	0
Async Terminal/Printer Cable	2934	1	45	10	450	0
10/100 Mbps Ethernet Adapter, PCI	2968	1	275	40	11,000	0
9.1 GB SCSI Hard Disk	3029	1	0	10	0	0
Serial Port Converter Cable	3925	1	25	10	250	0
Memory Expansion Feature	4098	1	1,038	10	10,380	0
512MB SDRAM DIMM Memory	4120	1	3,072	80	245,760	0
2-w ay 375 MHz Pow er3 , 4MB L2	4362	1	13,000	20	260,000	33,600
IBM ASCII Terminal, Keyboard, Cable	3153-BG3	1	577	11	6,347	3,344
Subtotal					603,277	53,744
Client Software						
AIX 4. Unlimited Users(Media only)	5765-C34	1	50	10	500	21,031
IBM Websphere Applicaton Server	41L3462	1	21,000	10	210,000	15,665
Subtotal					210,500	36,696
Discounts					(4,312,699)	(118,397)
Total					5,937,976	1,608,861

Notes:

Pricing Sources:

1=IBM, 2=Oracle

Audited by: Francois Raab , Info Sizing

Three-Year Cost of Ownership

tpmC

\$/tpmC

\$7,546,837

220,807.27

\$34.18

Prices used in TPC benchmarks reflect the actual prices a customer would pay for a one-time purchase of the stated components. Individually negotiated discounts are not permitted. Special prices based on assumptions about past or future purchases are not permitted. All discounts reflect standard pricing policies for the listed components. For complete details, see the pricing sections of the TPC benchmark specifications. If you find that the stated prices are not available according to these terms, please inform the TPC at pricing@tpc.org. Thank you

Numerical Quantities Summary for the IBM eserver pSeries 680

MQTH, computed Maximum Qualified Throughput: 220,807.27 tpmC

Repeatability Run: 220,405.93 tpmC 0.18% difference

<u>Response Times (in seconds)</u>	<u>90th %</u>	<u>Average</u>	<u>Maximum</u>
New Order	0.78	0.37	11.90
Payment	0.73	0.33	12.67
Order-Status	0.76	0.35	10.81
Delivery (interactive)	0.19	0.11	1.87
Delivery (deferred)	0.27	0.15	2.63
Stock-Level	1.14	0.70	10.93
Menu	0.00	0.00	2.54

Transaction Mix, in percent of total transactions

	<u>Percent</u>
New Order	44.91%
Payment	43.02%
Order-Status	4.01%
Delivery	4.01%
Stock-Level	4.02%

Keying/Think Times (in seconds)

	<u>Min.</u>	<u>Average</u>	<u>Max.</u>
New Order	18.00/0.01	18.01/12.02	18.13/120.21
Payment	3.00/0.01	3.01/12.02	3.13/120.21
Order-Status	2.00/0.01	2.01/10.01	2.12/100.11
Delivery	2.00/0.01	2.01/5.02	2.11/50.21
Stock-Level	2.00/0.01	2.01/5.02	2.12/50.20

Test Duration

Ramp-up Time	37 min 40 sec
Measurement interval	30 minutes
Transactions during measurement interval (all types)	14,747,794
Ramp-down time	10 minutes

Checkpointing

Number of checkpoints	1
Checkpoint interval	29 min 54 sec