



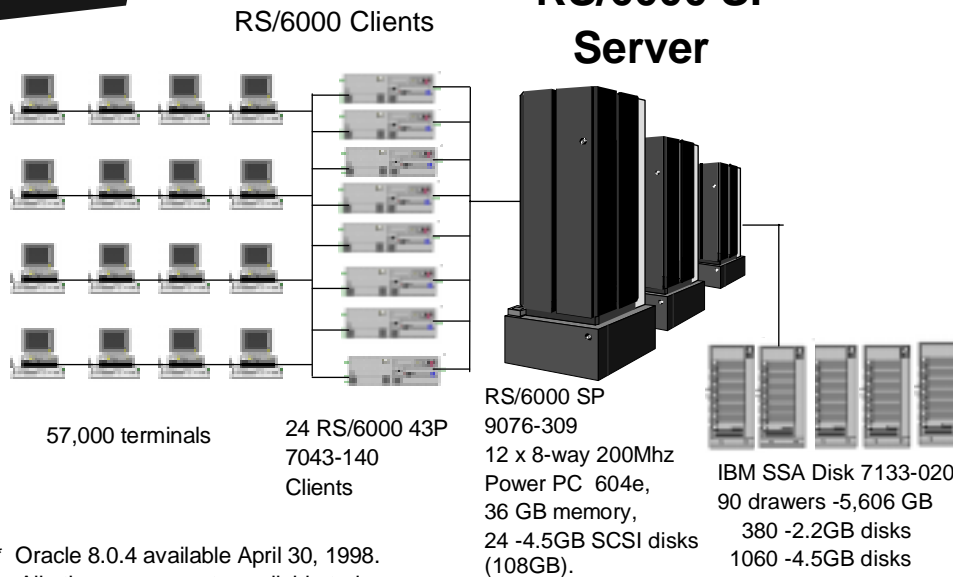
# IBM RS/6000 SP Model 309 c/s

TPC-C Rev. 3.3.2

Report Date: February 18,  
1998

<b>Total System Cost</b>	<b>TPC-C Throughput</b>	<b>Price/Performance</b>	<b>Availability Date</b>	
<b>\$8,409,582</b>	<b>57,053.80 tpmC</b>	<b>\$147.40 /tpmC</b>	<b>April 30, 1998*</b>	
<b>Processors</b>	<b>Database Manager</b>	<b>Operating System</b>	<b>Other Software</b>	<b>Number of Users</b>
12 nodes, each with 8 x 200MHz IBM PowerPC604e	Oracle8 Enterprise Edition 8.0.4	AIX 4.2.1 PSSP 2.3	IBM TXSeries 4.2 for AIX	57,000

## RS/6000



\* Oracle 8.0.4 available April 30, 1998.  
All other components available today.

System Components	Clients		Server	
	Qty	Description	Qty	Description
<b>Nodes</b>	<b>24</b>	<b>RS/6000 43P Model 140</b>	<b>12</b>	<b>RS/6000 SP High Nodes (SP Model 9076-309)</b>
<b>Processor</b>	<b>per Node</b>	1 233MHz PowerPC 604e w/ 1MB L2 cache	<b>per Node</b>	8 200MHz PowerPC 604e w/ 2MB L2 cache
<b>Memory</b>		640MB each		3.0GB each
<b>Disk Controllers</b>		1 SCSI-2 F/W Adapters		1 SCSI-2 F/W Adapters 2 SSA Adapters
<b>Disk Drives</b>		1 2.1GB SCSI		24 4.5GB SCSI F/W Disks 380 2.2GB SSA Disks 1060 4.5GB SSA Disks
<b>Total Storage</b>	<b>50.4 GB</b>		<b>5,714.0 GB</b>	
<b>Terminals</b>	<b>1</b>	<b>System Console/client</b>	<b>1</b>	<b>RS/6000 Control Workstn</b>
<b>Term. Connect</b>	<b>2,615</b>	<b>CentreCOM 24 Port Ethernet Hubs + 10% spares</b>		



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Description	Part Number	Third Party Brand Pricing	Unit Price	Qty	Extended Price	5 yr Maint Price
<b>Server Hardware</b>						
RS/6000 SP	9076-309		97,600	1	97,600	29,760
604E Exp Frame	1019		97,600	2	195,200	59,520
604E Exp Drawer	2009		47,600	9	428,400	181,440
SCSI-2 F/W Adapter	2415		1,070	12	12,840	0
Ethernet Adapter	2980		722	36	25,992	0
4.5GB SCSI-2 F/W DD	3000		1,800	24	43,200	0
SP Switch	4011		70,000	1	70,000	20,160
SP Switch Adapter	4020		10,000	12	120,000	0
1GB SMP DIMMS on 1GB Card	4030		29,500	36	1,062,000	0
604E SMP 200Mhz Proc	4324		12,000	48	576,000	276,480
Enhanced SSA 4-port Adapter	6216		2,000	24	48,000	0
<b>SubTotal</b>					<b>2,679,232</b>	<b>567,360</b>
<b>SSA Storage</b>						
SSA Disk Subsystem	7133-020		19,350	90	1,741,500	864,000
2.2GB Disk Drive Module	9204		0	92	0	0
2.2GB Add'l Disk Drive	3201		2,100	288	604,800	0
4.5GB Disk Drive Module	3404		0	268	0	0
4.5GB Add'l Disk Drive	3401		2,100	792	1,663,200	0
10.0M SSA Copper Cable	5100		75	102	7,650	0
1.00M SSA Copper Cable	5010		40	66	2,640	0
Rack Subsystem	7015-R00		3,110	15	46,650	22,320
<b>SubTotal</b>					<b>4,066,440</b>	<b>886,320</b>
<b>Server Software</b>						
AIX 4.2, IBM C	5765-423		615	1	615	0
CD-ROM	5692-AIX		50	1	50	0
Perf.Toolbox,PAIDE(perfagent)	5765-654		450	1	450	0
Oracle8 Enterprise Edition, Parallel Server Option, Partitioning Option	not yet avail	Oracle	1,340,429	1	1,340,429	1,340,429
<b>SubTotal</b>					<b>1,341,544</b>	<b>1,340,429</b>
<b>Control Workstation</b>						
RS/6000 Model P40	7025-F40		13,995	1	13,995	7,680
GXT12P Graphics Adapter	2838		340	1	340	0
4.5GB Ultra SCSI 16-bit	2902		30	1	30	0
8 Port Async Adapter	2943		1,395	1	1,395	0
PCI Ethernet Adapter	2985		195	1	195	0
G52 Color Monitor	3617		700	1	700	0
16MB-64MB EDO DRAM	4129		640	2	1,280	0
Enhanced mouse	6041		75	1	75	0
8mm tape drive, internal	6147		5,395	1	5,395	0
Quiet Touch Keybd	6600		100	1	100	0
CD-ROM	5692-AIX		50	1	50	0
<b>SubTotal</b>					<b>23,555</b>	<b>7,680</b>
<b>Clients</b>						
RS/6000 43P Model 140 with 1MB L2 cache, intg SCSI-2 F/W and Enet	7043-140		5,900	24	141,600	80,640
Async Terminal/Printer Cable	2934		45	24	1,080	0
PCI Ethernet BNC/RJ-45	2985		195	48	9,360	0
PCI Ethernet AUI/RJ-45	2987		195	48	9,360	0
128 MB DRAM DIMM Base	4102		1,280	24	30,720	0
128 MB DRAM DIMM Add'l	4115		2,560	96	245,760	0
Ethernet 10base2 tranceiver	4223		195	48	9,360	0
233MHz CPU upgrade	4315		2,100	24	50,400	0
IBM Ascii Terminal, Keyboard	3153-BG3		577	24	13,848	7,920
Smart UPS 700VA	9910-A03		743	24	17,832	0
CD-ROM	5692-AIX		50	24	1,200	0
IBM TXSeries 4.2 for AIX	5697-D17		2,315	24	55,560	62,367
<b>SubTotal</b>					<b>586,080</b>	<b>150,927</b>
<b>User Connectivity</b>						
Ethernet Hub (24 port) incl 10% s	AT3024SL-15	CentreCOM	2	191	2615	499,465
<b>SubTotal</b>					<b>499,465</b>	<b>0</b>
<b>Discounts</b>					<b>(3,285,185)</b>	<b>(454,265)</b>
<b>Total</b>					<b>5,911,131</b>	<b>2,498,451</b>
<b>Notes:</b>						
Pricing Sources: 1=Oracle Corp. 2=Allied Telesyn Intl.						
Audited by: Francois Raab, Information Paradigm						

<b>Five-Year Cost of Ownership:</b>	<b>\$8,409,582</b>
<b>tpmC Rating:</b>	<b>57,053.80</b>
<b>\$/tpmC:</b>	<b>\$147.40</b>

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](mailto:pricing@tpc.org). Thank you.