



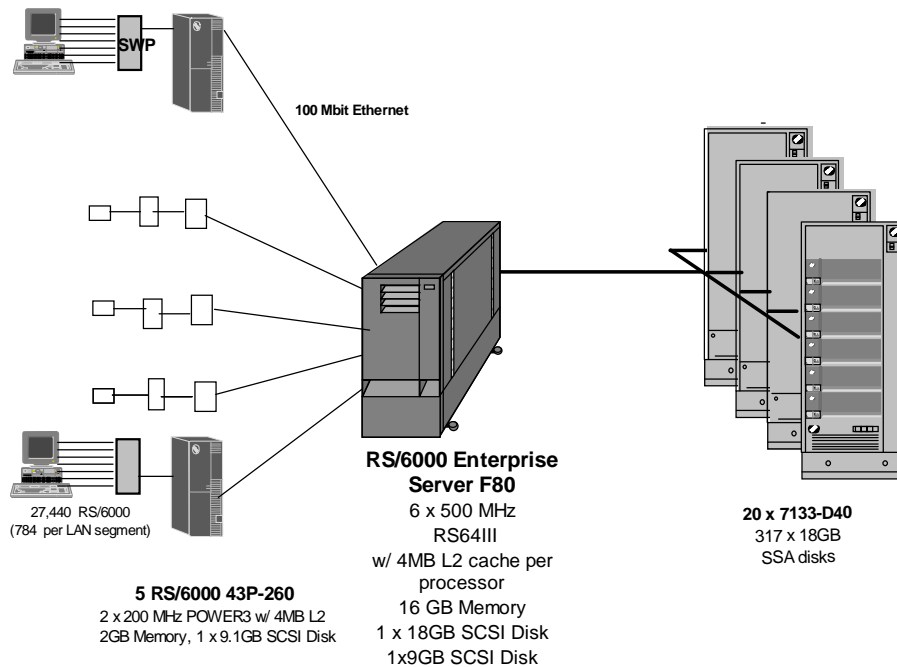
# IBM RS/6000 Enterprise Server F80 c/s

TPC-C Rev. 3.5

ORACLE

Report Date  
May 9, 2000

<b>Total System Cost</b>	<b>TPC-C Throughput</b>	<b>Price/Performance</b>	<b>Availability Date</b>	
<b>\$2,026,681</b>	<b>33,571.30 tpmC</b>	<b>\$60.37/tpmC</b>	<b>June 9, 2000</b>	
<b>Processors</b>	<b>Database Manager</b>	<b>Operating System</b>	<b>Other Software</b>	<b>No. Users</b>
<b>6 x IBM RS64-III</b>	<b>Oracle8 Enterprise Edition 8.1.6</b>	<b>AIX 4.3.3 +APAR IY09807</b>	<b>Websphere Application Server Enterprise Edition Version 3.0</b>	<b>27,440</b>



System Components	Clients		Server	
	Quantity	Description	Quantity	Description
Processor	5	2 x 200 MHz POWER3 w/ 4MB L2 cache each	1	6 x 500 MHz IBM RS64-III w/ 4MB L2 cache each
Memory		2 GB		16 GB
Disk Controllers	5	SCSI-2 Adapters	2	SCSI-2 Adapters
			5	SSA Adapters
Disk Drives	5	9.1 GB SCSI	317	18 GB SSA disk
			1	18 GB SCSI Disk
			1	9.1 GB SCSI Disk
<b>Total Storage</b>		<b>9.1 GB each client</b>		<b>5,319.68 GB</b>
Terminals	5	System Console	1	System Console
Term. Connect	3,773	8-Port Ethernet Hubs		



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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 Server Model F80	7025-F80		6205	1	6205	7,680
SCSI2-pack	6555		595	1	595	0
32x Speed CD-ROM	2624		375	1	375	0
18.2 GB 1" Ultra SCSI	3023		1800	1	1800	0
9.1 GB 1" Ultra SCSI	3152		1260	1	1260	0
Async/Terminal Cable	2934		45	1	45	0
Memory Expansion feature	4075		1500	2	3000	0
16 GB memory	4131		13312	16	212992	0
6 way 500 Mhz Processor	5206		43500	1	43500	11,520
Advanced SerialRAID Adapter	6230		3000	5	15000	0
32MB Fast-Write Cache Option	6235		575	1	575	0
10/100 Mbps Ethernet Adapter			N/C	1	0	0
System Rack - Stealth Black	7014-S00		3500	1	3500	1,536
System Rack - Stealth Black	7014-T00		3550	2	7100	3,072
Additional Power Distribution unit	6171		1000	5	5000	0
SSA disk Subsystem, Black Cover	7133-D40		13000	20	260000	176,640
50/60 Hz AC, 300 VDC Power Supply	8022		2000	20	40000	0
Prestige EXT10000VA, 110-127V, 50/60Hz	9910-U11		1135	1	1135	0
18.2GB Advanced Disk Drive Modules	8518		4500	317	1426500	0
SSA Cables	8802		65	40	2600	0
			<b>Subtotal</b>		<b>2,031,182</b>	<b>200,448</b>
<b>Server Software</b>						
AX 4.3.3 for F80	5765-C34		50	1	50	11,050
IBM C for AX V4.4	5765-C64		799	1	799	8,230
Oracle8 Enterprise Edition 8.1.6 64bit		1	250,930	1	250,930	250,930
			<b>Subtotal</b>		<b>251,779</b>	<b>270,210</b>
<b>Client Hardware</b>						
RS/6000 Model 43P-260	7043-260		3,762	5	18810	33,840
CDROM	2624		375	5	1875	0
9.1 GB SCSI Hard Disk	3029		1260	5	6300	0
Async Terminal/Printer Cable	2934		45	5	225	0
10/100 Mbps Ethernet Adapter, PCI	2968		275	10	2750	0
Memory Expansion Feature	4098		1,038	10	10380	0
256MB(2*128) SDRAM DIMM Memory	4110		2,560	40	102400	0
200 MHz Power3 Processor, 4MB L2	4342		8,000	10	80000	0
IBM ASCII Terminal, Keyboard	3153-BG3		577	6	3462	0
			<b>Subtotal</b>		<b>226,202</b>	<b>33,840</b>
<b>Client Software</b>						
AX 4. Unlimited Users	5756-C34		50	5	250	5,524
IBM Websphere Application Server Enterprise Edition Version 3.0	41L3462		5,025	5	25125	1,755
			<b>Subtotal</b>		<b>25375</b>	<b>7278.95</b>
<b>User Connectivity</b>						
8port Ethernet Switch + 4 Spare	ES-3108P	2	79	12	948	190
Ethernet Hub (8port) + 10% Spares	CT1008DP	3	18.00	3,773	67,914	
			<b>Subtotal</b>		<b>68,862</b>	<b>190</b>
			<b>Discounts</b>		<b>(1,027,624)</b>	<b>(61,062)</b>
			<b>Total</b>		<b>1,575,776</b>	<b>450,905</b>

Notes:

Pricing Sources:

1=Oracle, 2=PC Connection, 3=Netcruiser Tech. Inc.

Audited by: Francois Raab, Info Sizing

Five-Year Cost of Ownership:

2,026,681

tpm C 33,571.30

\$/tpm C 60.37

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 RS/6000 F80

MQTH, computed Maximum Qualified Throughput: 33,571.30 tpmC

Repeatability Run: 33,533.57 tpmC 0.11% difference

<u>Response Times (in seconds)</u>	<u>90th %</u>	<u>Average</u>	<u>Maximum</u>
New Order	2.15	1.04	122.45
Payment	1.97	0.95	143.12
Order-Status	2.03	1.00	98.19
Delivery (interactive )	0.19	0.11	0.35
Delivery (deferred )	0.21	0.14	2.89
Stock-Level	2.24	1.15	87.78
Menu	0.01	0.00	2.33

<u>Transaction Mix, in percent of total transactions</u>	<u>Percent</u>
New Order	44.81%
Payment	43.01%
Order-Status	4.05%
Delivery	4.05%
Stock-Level	4.05%

<u>Keying/Think Times (in seconds)</u>	<u>Min.</u>	<u>Average</u>	<u>Max.</u>
New Order	18.00/0.01	18.01/12.03	18.08/120.30
Payment	3.00/0.01	3.01/12.03	3.08/120.31
Order-Status	2.00/0.01	2.01/10.04	2.07/100.30
Delivery	2.00/0.01	2.01/5.01	2.08/50.30
Stock-Level	2.00/0.01	2.01/5.06	2.08/50.30

### Test Duration

Ramp-up Time	37 min 02 sec
Measurement interval	30 minutes
Transactions during measurement interval (all types)	2,247,253
Ramp-down time	10 minutes

### Checkpointing

Number of checkpoints	1
Checkpoint interval	29 min 44 sec

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