

IBM	AS/400e server model 740 with feature code 2070		TPC-C Rev. 3.4	
			Report Date: June 3, 1999	
Total System Cost	TPC-C Throughput	Price/Performance	Availability Date	
\$3,037,802	43,419.15	\$69.96	June 1, 1999	
Processors	Database Manager	Operating System	Other Software	Number of Users
1 AS/400e 740-2070 (12-way) 6 AS/400e 9406-170 2388	DB2 for AS/400 Version 4 Release 3	OS/400 Version 4 Release 3	BEA TUXEDO 6.4 V4 R4 INT LNG ENV C OS/400 V4 R4	34,500
AS/400e server 740-2070 C/S Priced Configuration				
<p style="text-align: center;">AS/400e Series - Priced Configuration </p> <p>AS/400 Server 9406-740 2070 12-way 40GB Memory 304 8.56gb Disk 36 17.5gb Disk 2.9 TB Disk 6 TRLAN</p> <p>AS/400 Clients</p> <p>6 - AS/400 9406-170 2388 2-way 3.5GB Memory 10 - 8.56gb Disk 85 GB Disk 1 TRLAN 1 Ethernet</p> <p>8271-712 Ethernet Switch</p> <p>10mb Ethernet Hub</p> <p>34,500 PCs running Web Browser</p>				
System components:				
	Qty:	Description:		
Server				
Processors	1	AS/400e server 740-2070		
Memory	12	40 GB main memory		
Disk controllers	20	6533 DASD IOP		
	1	Integrated multifunction IOP		
Disk drives	340	304 8589 MB DASD		
		36 17542 MB DASD		
Total storage		2.9 TB		
Clients (each):	6			
Processor	2	AS/400e server 9406-170 2388		
Memory		3.5 GB main memory		
Disk controller	1	Integrated multifunction IOP		
Disk	10	8568 MB DASD		



**AS/400e server model
740-2070**

TPC-C REV 3.4 EXECUTIVE SUMMARY

Report Date: June 3, 1999

AS/400 9406-740 Configuration

Item Description	Feature Number	Third Party Pricing	Unit Price	Qty.	Extended Price	Extended Maintenance	5-Year Price
Server Hardware:							
AS/400 9406 - Model 740 12-way Processor	2070		342,500	1	342,500	80,400	422,900
Token-Ring Adapter (9249)	Bundled			1	0		0
Battery Backup	Bundled			1	0		0
Twinax Work Station Controller (5540)	Bundled			1	0		0
2048 Optional MB Base Memory	8193		32,256	4	129,024		129,024
Optical Link	2688		2,000	6	12,000		12,000
Optical Bus Adapter	2695		1,000	1	1,000		1,000
2048 MB Main Storage	3193		36,864	16	589,824		589,824
Storage Expansion Unit	5057		5,000	1	5,000	10,560	15,560
Storage Expansion Unit	5058		5,000	10	50,000		50,000
1063 Mbps System Unit Expansion Tower	5073		14,900	1	14,900	105,600	120,500
1063 Mbps Storage Expansion Tower	5083		14,900	10	149,000	144,000	293,000
Token Ring Adapter	6149		1,200	6	7,200		7,200
RAID Disk Unit Controller	6533		9,900	20	198,000		198,000
2.5 GB 1/4-inch Tape Drive	6382		1,300	1	1,300		1,300
Lan/Wan/Workstation IOP	2629		2,600	6	15,600		15,600
Operations Console Cable	0328		125	1	125		125
V.24/EIA232 20 ft Cable	0330		125	1	125		125
17.2 GB Disk Unit	6714		3,000	36	108,000		108,000
8.58 GB Disk Unit	6713		1,650	303	499,950		499,950
Base 8.58 GB Disk Unit	8713		600	1	600		600
External V.34 modem	7852		525	1	525		525
Server Subtotal					2,124,673	340,560	2,464,708
Client Hardware:							
AS/400 9406-170 V4R4	2388		105,125	1	105,125	20,160	125,285
Twinax Work Station Controller (9720)	Bundled			1	0		0
Base Token Ring Adapter (9724)	Bundled			1	0		0
Tape Drive	6381		1,000	1	1,000		1,000
128 MB Main Storage	3002		1,280	2	2,560		2,560
256 MB Main Storage	3004		2,560	12	30,720		30,720
Opt Base 8.58 GB Disk Unit	8813		600	1	600		600
8.58 GB Disk Unit	6813		1,650	9	14,850		14,850
PCI Raid Disk Unit Ctr	2740		4,000	1	4,000		4,000
PCI Lan/Wan/Workstation IOP	2809		1,800	1	1,800		1,800
PCI 100/10 Mbps Ethernet IOA	2838		900	1	900		900
32Mb IOP Memory (for IPCS)	2861		125	1	125		125
PCI Integrated Netfinity Server	2866		1,500	1	1,500		1,500
PCI System Exp Unit Base 16Mb	7101		3,000	1	3,000	2,640	5,640
External V.34 Modem	7852		525	1	525		525
Single Client Subtotal					166,705	22,800	189,505
Number of Clients				6			
Client Subtotal					1,000,230	136,800	1,137,030
Server Software:							
IBM Operating System/400 V4R3M0	Bundled			1	0		0
Client Software:							
IBM Operating System/400 V4R4M0	Bundled			6	0		0
BEA Tuxedo V6.4		1	3,000	6	18,000	14,400	32,400
ILE COBOL	5738-CB1		7,200	1	7,200		7,200
Application Development Toolkit	5716-PW1		7,850	1	7,850		7,850
DB2 Query Manager Dev. Toolkit	Bundled			1	0		0
ILE C	5716-CX2		7,200	1	7,200		7,200
Software Subtotal					40,250	14,400	54,650
User Connectivity:							
12-port 10/100 Ethernet Switch	8271-712		3,495	4	13,980	5,600	19,580
8-Port 10Mb Hub (10% spares)	Z99552	1	28	5448	150,120		150,120
8-port Token Ring connection unit (including 2 spares)	8226		545	4	2,180		2,180
User Connectivity Subtotal					166,280	5,600	171,880
5-year System Subtotal					3,331,433	497,360	3,828,793
Discounts:							
				%Allowance	Volume	Discount	
Revenue Allowance				20	3,181,313	(636,263)	
Mid-range System Option				17	497,360	(84,551)	
Extended Maintenance Option				17	412,809	(70,177)	

Notes:
 Revenue Allowance is applied to hardware and software for the priced configuration.
 EMO is a discount for prepayment of 5 years of maintenance costs.
 MSRO is available to customers when agreement is reached for the customer to perform certain duties

Five-Year Cost of Ownership: \$3,037,802

tpmC Rating: 43,419.15

\$/tpmC: \$69.96

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 IBM AS/400e server 740-2070

MQTH, computed Maximum Qualified Throughput 43,419.15
 % throughput difference, reported & reproductivity 0.07%

Response Times (in seconds)	<u>90%</u>	<u>Avg.</u>	<u>Max.</u>
- New Order	0.400	0.284	7.594
- Payment	0.300	0.204	8.391
- Order-Status	0.400	0.300	1.375
- Delivery (interactive portion)	0.200	0.111	0.657
- Delivery (deferred portion)	9.13	4.13	26.56
- Stock-Level	1.000	0.471	7.922
- Menu	0.111	0.110	6.671

- Response time delayed for emulated components 0.0

Transaction Mix (in percent of total transactions)	
- New Order	44.85%
- Payment	43.09%
- Order-Status	4.03%
- Delivery	4.02%
- Stock-Level	4.02%

Keying/Think Times (in seconds)	<u>Min.</u>	<u>Avg.</u>	<u>Max.</u>
- New Order 18.00/120.313	18.00/.015	18.00/12.054	
- Payment 3.00/120.313	3.00/.015	3.00/12.031	
- Order-Status 2.00/100.610	2.00/.015	2.00/10.060	
- Delivery Stock-Level	2.00/.015	2.00/5.045	2.00/50.406
	2.00/.015	2.00/5.096	2.00/50.407

Test Duration	
- Ramp-up time	82 minutes
- Measurement interval	20 minutes
- Number of checkpoints	0
- Checkpoint interval	0 minutes
- Number of transactions (all types) completed in Measurement Interval 1,936,158	