

Numerical Quantities Summary for Ultra Enterprise 2 Model 2200

MQTH, Computed Maximum Qualified Throughput **3107.17 tpmC**

% throughput difference, reported & reproducibility runs < 0.5%

Response Times (in secs)	90th Percentile	Average	Maximum
Menu	0.25	0.02	0.70
New-Order	1.40	0.79	11.67
Payment	1.40	0.63	4.88
Order-Status	1.20	0.56	4.47
Delivery(interactive)	0.04	0.02	0.33
Delivery(deferred)	2.00	0.73	5.00
Stock-level	2.00	0.90	6.00

Transaction Mix, in percent of total transactions

New-Order	44.80%
Payment	43.12%
Order-Status	4.03%
Delivery	4.03%
Stock-level	4.02%

Keying/Think Times (in secs)	Average.	Min.	Maximum
New-Order	18.02/12.19	18.01/0	18.09/122.0
Payment	3.01/12.28	3.01/0	3.09/122.0
Order-Status	2.02/10.22	2.01/0	2.05/90.5
Delivery	2.02/5.19	2.01/0	2.11/52.0
Stock-level	2.02/5.09	2.01/0	2.05/52.0

Test Duration

Ramp-up time	15 minutes
Measurement Interval	30 minutes
Number of transactions (all types) completed in measurement interval	208050

Sun Microsystems

Ultra Enterprise 2 C/S w/2 Front-Ends

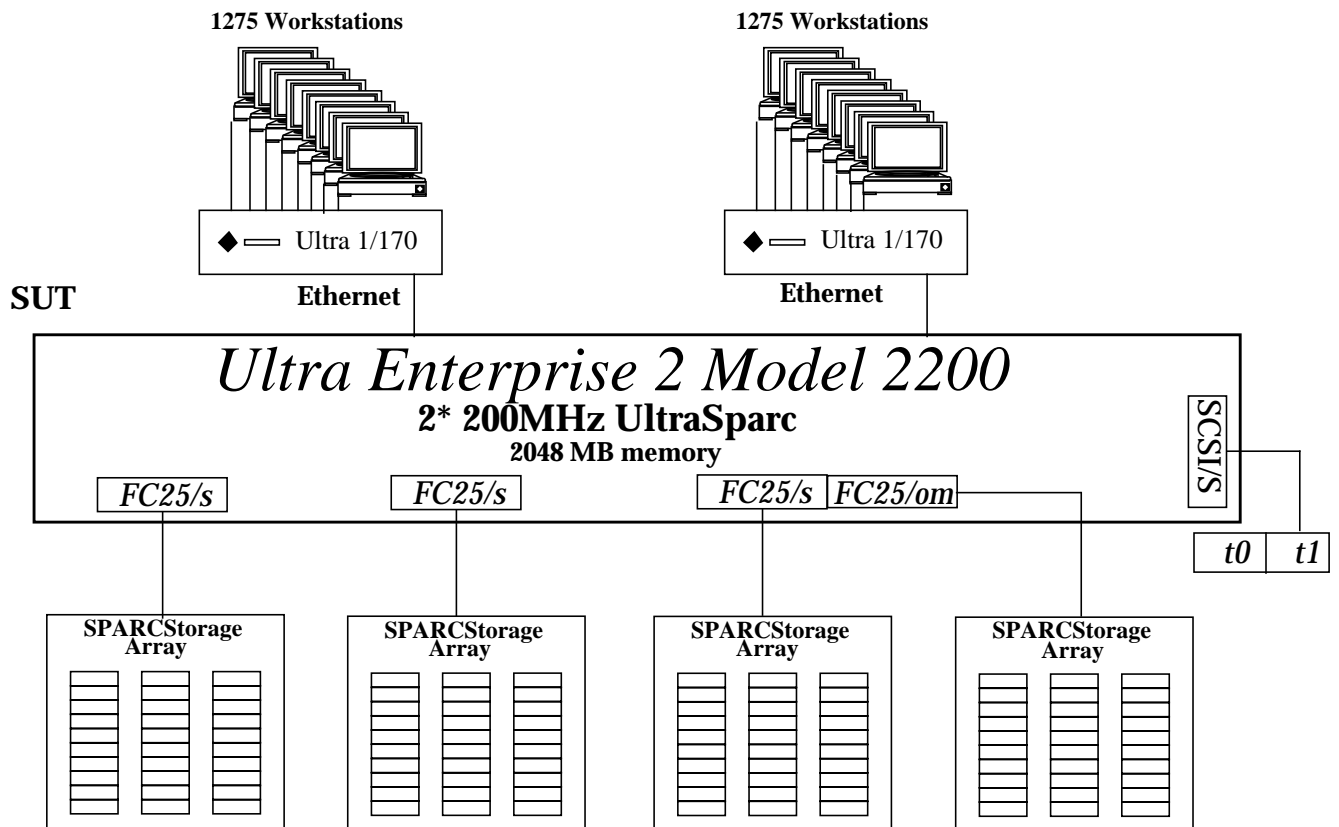
TPC-C

Report Date: 4/15/96

Order Number	Description	Quantity	Unit Price	Extended Price	Maint. rate/unit	5 yr total Maint.
Hardware						
A14-UCB2-9S-512EB	Ultra Enterprise 2 Model 2200 (2*200MHz proc, 1MB Ecache, 512-MB RAM+ 2*2.1GB SCSI disk)	1	44621.00	44621.00	225	12150
X7004A	256MB SIMM expansion	6	11250.00	67500.00		
792A	SSA Model 112 w/ 30 2.1 GB Disks	4	35100.00	140400	120	25920
1057A	FibreChannel S/Bus Host Adapter	3	1200.00	3600		
595A	FibreChannel Optical Module	1	450.00	450		
X6256A	4-8GB 4mm DDS2 Internal Drive	1	1125.00	1125		
	Ultra Enterprise 2 Total:			257,696.00		38,070.00
Front-End System						
A11-UBA1-9S-064CB	Ultra Enterprise 1 Model 170 (64MB RAM + 1 x 2.1GB SCSI Disk)	2	11621.00	23242	76	8208
X1058A	SBus Quad Ethernet Controller	2	746.00	1492		
X7003A	128 MB SIMM expansion	8	4275.00	34200		
	Ultra Enterprise 1 Total:			58,934.00		8,208.00
Terminals and Connectivity						
SX-WY35-G-G35	Wyse 35 terminal for console	3	295.00	885		
Data Com/Bocca 24 plus	24 Port Hub (10% spare)	118	349.00	41182		
	Terminals and Connectivity Total:			42,067.00		
	ALL HARDWARE SUBTOTALS:			358,697.00		46,278.00
Software						
Sun						
SOLS-C	Solaris Software on CD-ROM	1	100	100		
CC-3.0.1-S	SPARCompiler Single User License	1	695	695	20	1,140.00
	Sun Software Total:			795.00		1,140.00
DB2						
	DB2 for common server (38 users)	1	6209	6209		0.00
	DB2 Software Totals:			6,209.00		
Independence Technologies Inc.						
	Tuxedo 4.2.1 Development License	1	2395	2395	359.25	1,796.25
	Tuxedo 4.2.1 Runtime License	2	7500	15000	1125	11,250.00
	Tuxedo Software Totals:			17,395.00		13,046.25
	ALL SOFTWARE SUBTOTALS:			24,399.00		14,186.25
Sun maintenance rate/unit is monthly rate and Tuxedo maintenance rate/unit is yearly rate H/W Maintenance 1 YR warranty (maintenance at 50%) & 4 YR Maintenance						
Discount						
	Sun Prepaid Maintenance Discount (Hardware)	15%				-6,941.70
	TOTAL HARDWARE AND SOFTWARE COST (5 YR)					436,618.55
	Price Per TpmC					140.52

Sun Microsystems	Ultra Enterprise 2		TPC-C Rev 3.0
IBM Corporation	C/S w/2 Front-Ends		Report Date:4/15/96
Total System Cost	TPC-C Throughput	Price/Performance	Availability Date
\$436,618.55	3107.17 tpmC	\$141 per tpmC	Aug 31, 1996

Processors	Database Manager	Operating System	Other Software	Number of Users
2 UltraSPARC I 200 MHz	DB2 for Solaris V2.1.1 RDBMS	Solaris 2.5.1	Tuxedo Ver. 4.2.1	2550



System Components

Database Nodes:

Processors

Cache memory

Main memory

Disk controllers

Disk Drives

Total Disk Storage

Terminals

10 BaseT Hubs

Server System

1 Ultra Enterprise 2 Model 2200

2 x 200 MHz UltraSPARC RISC

16KB D, 16KB I, 1MB External

2048 MB

4 FC25/S + 1 SCSI/S

122 x 2.1 GB SCSI

256 GB

1 Console

None

Front End Systems

2 Ultra Enterprise 1 Model 170

1 x 167 MHz UltraSPARC each

32KB (D+I), 512KB External each

512 MB each

1 x SCSI-2 each

1 x 2.1GB SCSI-2 in each

2 GB in each

2 Consoles

118 x 24-Port