

Data General Corporation	AViiON AV 8700 Server		TPC-C Rev 3.4 Report Date: January 21, 1999	
Total System Cost	TPC-C Throughput	Price/Performance	Availability Date	
\$ 644,899	23,070.97 tpmC	\$27.96/tpmC	March 25, 1999	
Processors	Database Manager	Operating System	Other Software	Number of Users
4 Intel Pentium Xeon @ 450MHz Server (4) Dual Pentium II @ 400MHz Clients	Microsoft SQL Server 7.0, Enterprise Edition	Microsoft Windows NT 4.0, Enterprise Edition	BEA Tuxedo 6.4 Microsoft Visual C++ MS SQL Server Toolkit	18600



System Component	Server		Each of 4 Clients	
Processors	4	Intel Pentium Xeon @450 MHz with 2 MB L2 Cache	2	Intel Pentium II @ 400 MHz
Memory	1	8 GB SDRAM	1	256 MB RAM
Disk Controllers	7 1	Adaptec AAC-364 Integrated SCSI	1	Integrated SCSI
Disk Drives	1 8 192	9 GB 7200 rpm disk 18 GB 10K rpm disks 9 GB 10K rpm disks	1	4 GB 7200 rpm disk
Total Storage		1770.31 GB		3.47 GB
Network Controllers	1	100 MB Ethernet	1 2	Integrated 100 MB Ethernet Quad 10/100 MB Ethernet

Data General Corporation	AViiON AV 8700 Server Client/Server				TPC-C REV 3.4 Report Date: 21-January-1999		
Description	Part Number	Third Party	Unit Price	Qty	Extended Price	5 yr. Maint. Price	
Server Hardware		Brand	Pricing				
AV8700 Quad Xeon 450 MHz, 1GB Mem, CD, NIC	70841		21,597	1	21,597	3,974	
Xeon 450 MHz 2MB L2 Cache Upgrade (4-way)	R73125		21,597	1	21,597	960	
Replace 1GB Memory with 2GB (8x256MB)	R73123		5,037	1	5,037	979	
Second Memory Board with 1GB (4x256MB)	R73121		7,137	1	7,137	816	
1GB Memory Upgrade Kit (4x256MB)	7166		5,037	5	25,185	2,304	
9GB 7200 RPM LP DISK FOR AV8700	61032		720	1	720	230	
9GB 10000 RPM DISK FOR CSS4	61035		1,020	192	195,840	48,760	
18GB 10000 RPM DISK FOR CSS4	61036		1,680	8	13,440	3,270	
CSS4 SCSI STORAGE ENCLOSURE,RACKMOUNT	6966R-E		1,800	26	46,800	3,492	
DG 17" SVGA 1.R COLOR MONITOR, STD	26107B		321	1	321	65	
5' SCSI-2 68 PIN HIGH DENSITY CABLE	15445E005		66	26	1,716	0	
ADAPTEC RAID CONTROLLER PACKAGE (7)	7519		19,800	1	19,800	3,340	
73" DEEPRACK CAB,MIXED VOLT AC POWER	14022-G7		2,637	3	7,911	0	
Subtotal					367,101	68,190	
Server Software							
WINDOWS NT ENABLE KIT FOR AV8700	7061-D		150	1	150	0	
MS Windows NT Server, Enterprise Edition 4.0 incl 25 CALs	Q224AN21CD		3,999	1	3,999	0	
Microsoft SQL Server, Enterprise Edition, 7.0 Unltd User Lic.		Microsoft	1	28,999	28,999	10,475	
Subtotal					33,148	10,475	
Client Hardware							
AV2700R Dual Pentium II 450MHz, 64MB, CD	70776		7,017	4	28,068	6,144	
Replace 64MB Memory with 128MB	R73107		300	4	1,200	0	
128MB Memory Upgrade Kit	7139		597	4	2,388	0	
4GB Disk Drive for AV2700R	61024		660	4	2,640	1,326	
Quad 10/100BASE-T NIC	7497		836	8	6,688	1,224	
14" SVGA Color Monitor	26105B		177	4	708	351	
Subtotal					41,692	9,045	
Client Software							
Microsoft Windows NT Server 4.0	Q138AF21CD		809	4	3,236	0	
WINDOWS NT ENABLE KIT FOR AV2700	7061-D		150	4	600	0	
Visual C++ 32-bit edition (subscription)		Microsoft	1	499	499	0	
Tuxedo Run Time		BEA	2	3,000	12,000	9,000	
Subtotal					16,335	9,000	
User Connectivity							
Ethernet Hub, 12-port 100TX + 10% spares	40444TC1		657	3	1,971	0	
Ethernet Hub, 8-port 10BASE-T + 10% spares	DEH2924	Datacomm	3	33 2574	84,942	3,000	
Subtotal					86,913	3,000	
Total					\$545,189	\$99,710	
Notes: ** All products except part #'s 61035, 61036, and 7519 available now. * All Microsoft maintenance covered by the maintenance cost of SQL Server Pricing: 1=Microsoft, 2=BEA, 3=Datacomm Audited by Information Paradigm				Five-Year Cost of Ownership: \$644,899 tpmC Rating: 23070.97 \$ / tpmC: 27.96			
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

MQTh, computed Maximum Qualified Throughput

23,070.97

% throughput difference, reported & reproducibility runs

0.10%

Response Times in seconds

	90 th Percentile	Average	Maximum
- Neworder	0.72	0.43	4.32
- Payment	0.61	0.33	4.27
- Order Status	0.63	0.37	2.28
- Delivery (interactive portion)	0.41	0.32	0.95
- Delivery (deferred portion)	0.83	0.49	1.96
- Stock-Level	2.38	2.00	5.54
- Menu	0.33	0.23	1.13

Response time delay added for menu delay

0.1

Response time delay added for response time delay

0.1

Transaction Mix, in percent of total transactions

- New-Order	44.85 %
- Payment	43.05 %
- Order-Status	4.01%
- Delivery	4.04%
- Stock-Level	4.05%

Keying/Think Times (in seconds)

	Min		Average		Max	
- New-Order	18.0	0.0	18.01	12.04	18.05	120.70
- Payment	3.00	0.0	3.01	12.05	3.05	120.31
- Order-Status	2.00	0.0	2.01	10.03	2.05	100.61
- Delivery	2.00	0.0	2.01	5.04	2.05	48.84
- Stock-Level	2.00	0.0	2.01	5.11	2.05	50.40

Test Duration

- Ramp-up time	66 minutes
- Measurement interval	30 minutes
- Number of checkpoints	1
- Checkpoint interval	29min 53 sec
- Number of transactions (all types) completed in measurement interval	1,543,187