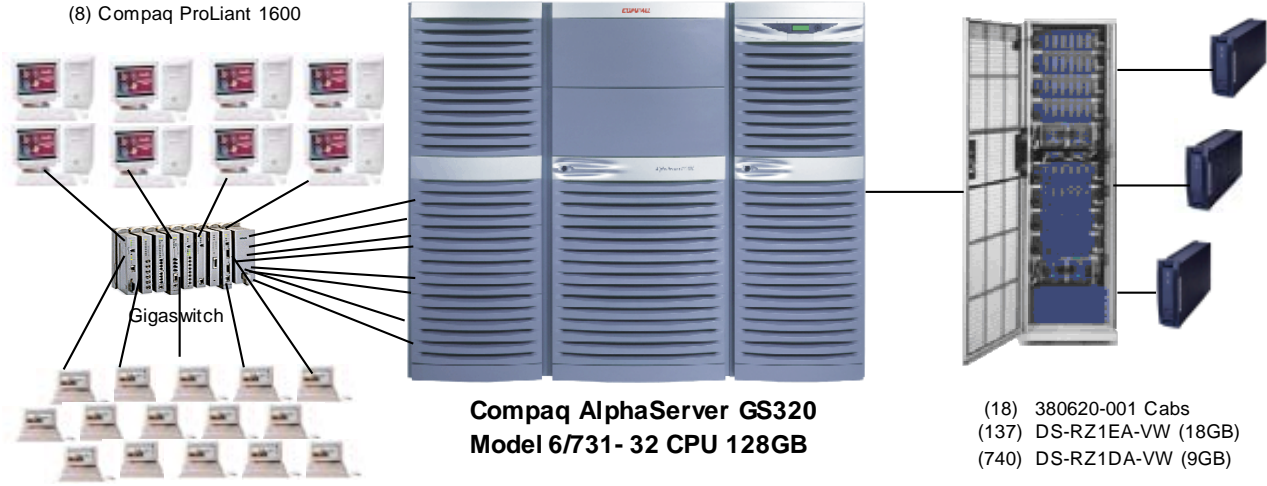
	Compaq AlphaServer GS320 Model 6/731	TPC-C Rev. 3.5
	32 CPU Client/Server System	Report Date: July 3, 2000

Total System Cost	TPC-C Throughput	Price/Performance	Availability Date	
\$8,150,992	122,608	\$66.48	August 31, 2000	
Processors	Database	Operating System	Other Software	Number of Users
32 731MHz DECchip 21264A	Oracle v8.1.7	Compaq Tru64 UNIX V5.1	Compaq DB Web Connector V1.1	101,300



(8) Compaq ProLiant 1600

Gigaswitch

**Compaq AlphaServer GS320
Model 6/731- 32 CPU 128GB**

(18) 380620-001 Cabs
(137) DS-RZ1EA-VW (18GB)
(740) DS-RZ1DA-VW (9GB)

100 Ethernet Segments
on 10/100 Mbps
Ethernet Modules
1,013 Users per Segment
Total PC's - 101,300

System Components	Qty	Type	Qty	Type
Database Nodes	1	Compaq AlphaServer GS320 Model 6/731	1	Compaq ProLiant 1600
Processors	32	6/731 MHz Alphachip 21264A	2	600 MHz Intel Pentium III
Cache Memory		4MB Cache	1	512KB Cache
Memory	32	4 GB Memory	1	128MB Memory
Total Memory	128	GB Memory	2	256MB Memory
Disk Controllers	52	Fiber Storage Controllers		640 Total
Disks	740	9.1GB Disks	1	18GB Disk
	137	18.1GB Disks		
Total Disk Storage	9213.7	GB		



**AlphaServer GS320
Model 6/731**

**TPC-C REV 3.5 EXECUTIVE
SUMMARY
PAGE 2 OF 2
Report Date: July 3, 2000**

Description	Part Number	Third Party Brand	Unit Price Pricing	Qty	Extended Price	5 yr. Maint. Price
Server Hardware						
Compaq AlphaServer GS 320 6/731 Model 32	DA-320EC-AA		1	666,000	666,000	476,962
GS 160/320 CPU SMP Upgrade	3X-KN8AA-AA		1	23,000	23,000	Inc.
GS 160/320 ADD-on CPU UNIX SMP	3X-KN8AA-SA		1	40,000	15	600,000
GS 160/320 4GB Memory Module	3X-MS8AA-SA		1	42,000	32	1,344,000
PCI Fibre Adapter	DS-KGPSA-CA		1	4,000	52	208,000
PCI to Ultra SCSI Adapter	KZPBA-CA		1	460	2	920
Dshf 180w Dif Blw Mtrc blue	DS-BA356-JF		1	1,464	2	2,928
16Bit SCSI for KZPSC/B A356	BN31S-1E		1	116	2	232
1600 Watt Bulk Power Converter	H7506-AA		1	10,000	4	40,000
GS 160/320 PCI Expansion Box	3X-DWWPA-SA		1	15,000	8	120,000
GS 80/160/320 Expansion Cab	H9A20-AA		1	5,000	2	10,000
15M Fibre Op Cable 50/125	234457-B 23		1	227	52	11,804
PCI to gbE SX Adapter	DEGPA-SA		1	1,949	8	15,592
SC-SC DUAL FOCbl, MM, P.P., 4.5M	BN34B-4E		1	96	8	768
ESA 12000 Storage Array	380620-001		1	88,629	18	1,595,322
15M Fibre Op Cable 50/125	234457-B 23		1	227	144	32,688
9.1GB 7200rpm UWS CSIDisk**	DS-RZIDA-VW		1	650	814	529,100
18.2GB 7200rpm UWS CSIDisk**	DS-RZIEA-VW		1	1,945.45	151	293,763
16 port Fibre Switch	DS-DSGGA-AB		1	38,333	13	498,329
Short Wave Optical GB IC	3380561-B 21		1	492	196	96,432
12/24gb 4MM DAT Tape	TLZ10-LB		1	1,135	1	1,135
GS -R outer 16 Slot Chassis	DGSRAB-A		1	9,995	2	19,990
GS -R 64MB Switch Control Pro	DGSRCA-B		1	8,995	2	17,990
GS/Rtr 2-P Geeth SX 16mB Line Card	DGSRSA-AB		1	7,995	8	63,960
GS/R 16-Slot Switching Fabric Module	DGSRD-AA		1	4,995	4	19,980
GS/Rtr 8-P Fast Ethernet 16mb Line Card	DGSR-AB		1	5,995	13	77,935
VT 510, WHITE, NORTH AMER, NO KEY	VT510-AA		1	395	1	395
US & Canada/English KB	PCXLA-NA		1	25	1	25
Subtotal					6,290,288	1,076,878
Server Software						
5YR TRU64UNIX BRZ 9x5	FM-W16U9-60		1	34,074	1	34,074
5YR GS 160/320 TRU64 UNIX SMP	FM-W16SM-60		1	8,550	31	265,050
HS G80 SW U/A LIC/MCD/DOC	380553-001		1	750	72	54,000
GIGAs w/Rtr All Lic/MCD Pkg	QB-64PAA-WA		1	3,995	1	3,995
5YR 5x9 HS 80 SW Dual Controller	FM-DBAL3-60		1	13,937	36	501,732
5YR 5x9 HS 90 P Platform SW	FM-PBAT1-60		1	1,514	36	54,504
Dig UNIX Alpha CDRM	QA-MT4AA-H8		1	395	1	395
Oracle RDBMS and SQL * Net	Oracle		2	1,065,000	1	1,065,000
Oracle RDBMS and SQL *Net 5YR Maintenance	Oracle		2	1,065,000	1	1,065,000
Subtotal					1,123,390	1,920,360
Client Hardware						
Compaq Proliant 1600	153552-001		1	4,450	8	35,600
Processor 600Mhz	153555-B 21		1	1,837	8	14,696
256MB SDRAM DIMM Memory	313616-B 21		1	1,688	16	27,008
Ethernet Dual Channel	338456-B 21		1	482	8	3,856
Gigabit Daughter CD Upgrade	338456-B 23		1	918	8	7,344
18GB Drive	388144-B 22		1	1,271	8	10,168
SC-SC DUAL FOCbl, MM, P.P., 4.5M	BN34B-4E		1	96	8	768
V700 15" Color Monitor**	325900-001		1	205	10	2,050
Subtotal					101,490	21,920
Client Software						
Application Optimizer WNT Server Edition	QB-641AA-SA		1	450	8	3,600
Subtotal					3,600	2,880
User Connectivity						
Compex Micro Hub/8-8 Port Hub***	DEH2924		3	32.50	13970	454,025
Subtotal					454,025	Spared
ICS Discount: 38% on Server Hardware/Software based on volume.					(\$2,452,432)	
Subtotal					\$5,520,361	\$2,630,630
Five Year Cost of Ownership						\$8,150,992
1=IC System Solutions, 2=Oracle, 3= MicroWarehouse					tpmC Rating:	122,608
Audited by InfoSizing					\$ / tpmC:	\$66.48
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.						

Numeric Quantities Summary
AlphaServer GS320 6/731 32 CPU Client Server System

MQTH

MQTH, computed Maximum Qualified Throughput	122608.142
% Throughput difference, reported and reproducibility runs	.004%

Response Times in seconds

Transaction	90th percentile	Average	Maximum
New-Order	2.108	0.837	18.817
Payment	1.981	0.833	16.324
Order-Status	1.838	0.721	7.371
Delivery (interactive)	1.368	0.488	5.387
Delivery (deferred)	1.421	0.641	14.500
Stock-Level	1.960	0.766	9.952
Menu	1.366	0.490	22.165

Transaction Mix in percent of total transactions

Transaction	Total Occurrences	Percentage
New-Order	14712977	44.976%
Payment	14069335	43.008%
Order-Status	1310447	4.006%
Delivery (interactive)	1309948	4.004%
Stock-Level	1310313	4.005%

Keying/Think Times in seconds

Transaction	Minimum	Average	Maximum
New-Order	18.000/0.000	18.001/12.004	18.176/120.010
Payment	3.000/0.000	3.000/12.000	3.168/119.960
Order-Status	2.000/0.000	2.000/10.000	2.165/ 99.786
Delivery (interactive)	2.000/0.000	2.000/ 5.001	2.161/ 49.933
Stock-Level	2.000/0.000	2.000/ 5.002	2.166/ 49.962

Emulation Delay in seconds

Transaction	Response Time	Menu Response Time
New-Order	0.10	0.10
Payment	0.10	0.10
Order-Status	0.10	0.10
Delivery (interactive)	0.10	0.10
Stock-Level	0.10	0.10

Test Duration

Ramp up time	65 minutes
Measurement interval	120:00.00 minutes
Number of checkpoints	4
Number of New Order transactions	14712977
Number of transactions (all types) completed in measurement interval	32713020