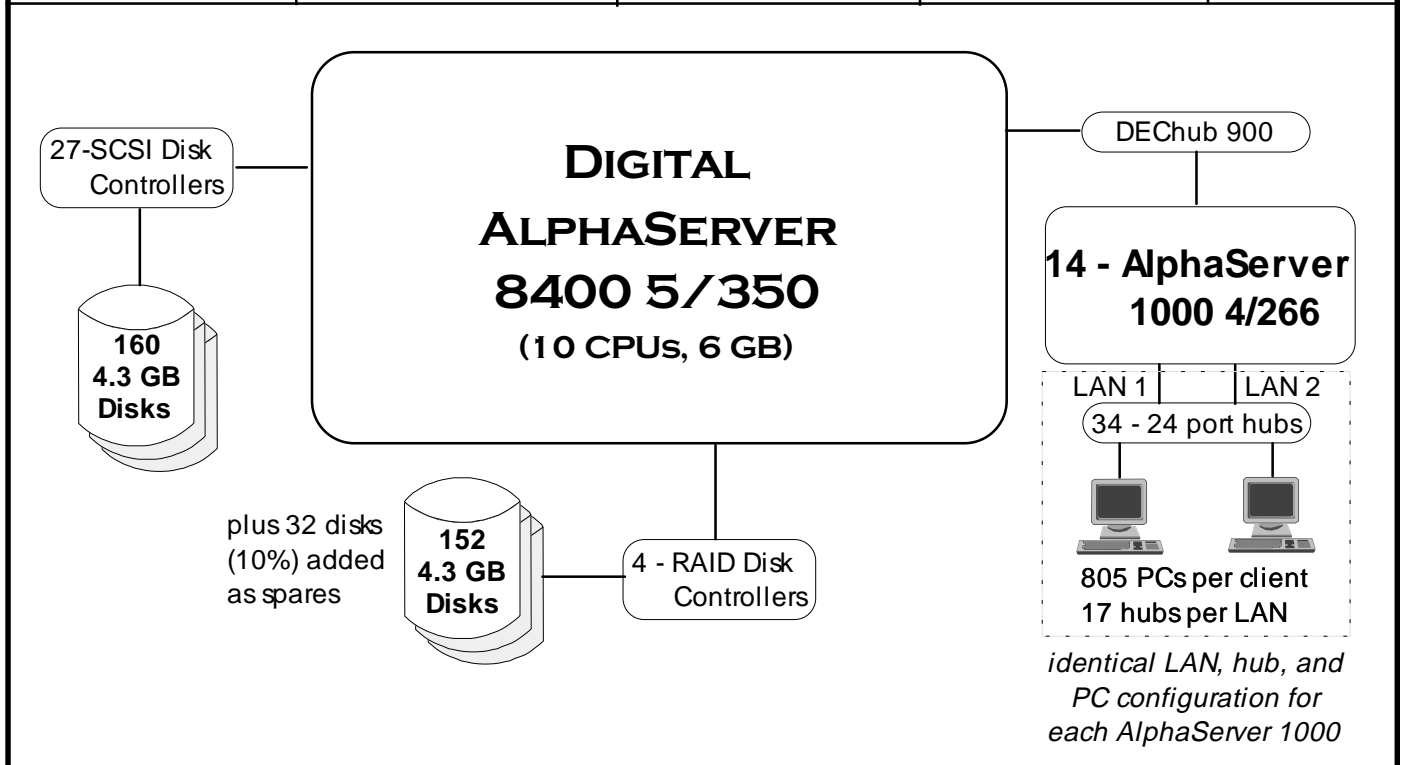


Digital Equipment Corporation and Informix Software	Digital AlphaServer 840 5/350 - C/S		TPC-C Rev 3.0
	10 - AlphaServer 1000 4/266 Front-Ends		Report Date: 25 March 96
Total System Cost	TPC-C Throughput	Price/Performance	Availability Date
\$3,778,989.32	13,646.17 tpmC	\$277 per tpmC	June 1996
Processors	Database Manager	Operating System	Other Software
10 - 350 MHz DECchip 21164	INFORMIX- OnLine Dynamic Server version 7.20	Digital UNIX V3.2D-2	ITI TUXEDO System/T v4.2.2
			Number of Users 11,270



System Components	Server		Client(s)	
	Quantity	Type	Quantity	Type
Processors	10	DECchip 21164 350 MHz	1	DECchip 21064A 266 MHz
Cache Memory		4 MB Secondary		512 KB per client
Memory		6 GB		512 MB per client
Disk Controllers	27	SCSI Controllers	1	SCSI controller per client
	4	RAID Controllers		
Disk Drives	312	4.3 GB SCSI (3.996 GB formatted)	2	2.1 GB per client
Total Storage		1,246.75 GB		
Tape Drives	1	8 GB DAT		
Terminals	1	System Console	1	System Console per client
Terminal Connectivity	517	Multiport Repeaters (hubs)	11,270	User PC total

	Part Number	Unit Price	Qty	Discount	Extended Price	5 Year Service	5 Year Cost
SERVER HARDWARE:							
Digital AlphaServer 8400 in-cabinet	DA-291DF-AA	455,600	1	(91,120.00)	\$364,480.00	0	\$364,480.00
Dual 5/350 SMP Upgr UNIX	754P2-AX	65,000	4	(52,000.00)	208,000.00	0	208,000.00
2GB AlphaServer 8xxx Memory	MS7CC-FA	212,600	2	(85,040.00)	340,160.00	0	340,160.00
VT510, White, North American	VT510-AA	376	1	(75.20)	300.80	0	300.80
US/UK 108 KEYBOARD	LK411-AA	63	1	(12.60)	50.40	0	50.40
48Volt Power Regulator Option	H7263-AA	8,346	1	(1,502.28)	6,843.72	0	6,843.72
Sys I/O Module w/4 I/O Chans	KFTHA-AA	8,200	1	(1,640.00)	6,560.00	0	6,560.00
PCI PIU for 8400 System Cab	DWLPA-AA	9,000	2	(3,600.00)	14,400.00	0	14,400.00
2nd 12 Slot PCI for DWLPA-AA	DWLPA-BA	9,000	2	(3,600.00)	14,400.00	0	14,400.00
PCI-SCSI Host Bus Adapter, FNS	KZPAA-AA	355	1	(71.00)	284.00	0	284.00
2.0 M Cable, SCSI-2 "A"	BN21H-02	82	1	(16.40)	65.60	0	65.60
600-MBYTE, 5.25" CD ROM DRIVE	RRDCD-CA	500	1	(100.00)	400.00	0	400.00
PCI-HOST BUS ADAPTER (FWD)	KZPSA-BB	995	31	(5,552.10)	25,292.90	0	25,292.90
10 M Cable, SCSI-3 "P" 1S/1R	BN21K-10	193	31	(1,196.60)	4,786.40	0	4,786.40
PCI to FDDI Adptr DAS,MMF,SC	DEFPA-DA	1,695	1	(457.65)	1,237.35	0	1,237.35
MIC-SC DUAL FO CBL, MM,P-P, 10M	BN34D-10	103	1	(20.60)	82.40	0	82.40
Cab w/fan tray/7200 RPM device	SW800-FA	6,102	3	(3,661.20)	14,644.80	0	14,644.80
SWXXX CNTLR SHELF W/PWR	BA350-MB	1,684	4	(1,347.20)	5,388.80	0	5,388.80
HSZ40 32MB WB CAC,RAID,DSK MR	HSZ40-BF	11,800	1	(2,360.00)	9,440.00	0	9,440.00
SW SCSI Array Cntrl 42 Device	HSZ40-BA	6,675	3	(4,005.00)	16,020.00	0	16,020.00
Shelf, 7-dev, 16-bit SSB	BA356-SB	590	27	(3,186.00)	12,744.00	0	12,744.00
150w Universal AC Pwr Supply	BA35X-HF	440	27	(2,376.00)	9,504.00	0	9,504.00
SCSI Signal Convrt 16-bit SSB	DWZZB-VW	600	27	(3,240.00)	12,960.00	0	12,960.00
STOR SHLF/METRIC W/PS SCSI	BA350-JA	1,171	24	(5,620.80)	22,483.20	0	22,483.20
DEChub 900 MultiSwitch, US/JA	DMHUB-AA	4,090	1	(1,104.30)	2,985.70	0	2,985.70
DEChub 900 Power Supply	H7894-MA	1,015	1	(274.05)	740.95	0	740.95
6-Port Conc with Mod PMDS	DEF6M-MA	6,765	3	(5,479.65)	14,815.35	0	14,815.35
DEChub/HUBw/U/A CDrom PKG	QB-32VAC-AA	239	1	(43.02)	195.98	0	195.98
HUBwatch U/A TRAD LIC	QL-0MWA9-AA	2,961	1	(532.98)	2,428.02	0	2,428.02
8 GB DAT W/SNAP-IN SW CARRIER	TLZ07-VA	1,999	1	(399.80)	1,599.20	0	1,599.20
STORAGE:							
RZ29 4.3 GB Disk w/Snap-in Carrier	RZ29B-VA	2,199	165	(72,567.00)	290,268.00	0	290,268.00
RZ29 4.3 GB SCSI Disk **	RZ29B-VW	2,329	179	(83,378.20)	333,512.80	0	333,512.80
Server System WARRANTY:							
YR2-5 5x9/4HR, 8400	FM-4Z4HR-60	43,968	1	-	43,968.00	0	43,968.00
SERVER SOFTWARE:							
5YR, Digital UNIX s/w, 8400 Dual Proces	FM-84DOS-60	24,204	1	-	24,204.00	0	24,204.00
INFORMIX-OnLine RT (5,000+ users)	INFORMIX	702,000	1	-	702,000.00	168,480	870,480.00
INFORMIX-ESQL/C RT (5,000+ users)	INFORMIX	117,000	1	-	117,000.00	28,080	145,080.00
CLIENT HARDWARE:							
AlphaServer 1000 4/266 UNIX	PB72C-FA	9,780	14	(27,384.00)	109,536.00	0	109,536.00
Dataram 128 MB SIMM	QS-HQ1AC-HJ	4,500	56	-	252,000.00	0	252,000.00
2.1 GBF 3.5" DK IN MOD CARRIER	RZ28M-VA	1,349	14	(3,777.20)	15,108.80	0	15,108.80
PCI, 32 Bit, B. M., PC NIC	DE435-AA	179	14	(501.20)	2,004.80	0	2,004.80
PCI to FDDI ADPTR SAS,MMF,SC	DEFPA-AA	1,195	14	(3,346.00)	13,384.00	0	13,384.00
MIC-SC Dual FO Cabl, P-P, 3M	BN34D-03	86	14	(240.80)	963.20	0	963.20
VT510, White, North American	VT510-AA	376	14	(1,052.80)	4,211.20	0	4,211.20
PS/2 NORTH AMERICAN KBD	LK471-AA	75	14	(210.00)	840.00	0	840.00
Client Systems WARRANTY:							
5YR 5x9/4HR, ASrvr 1000	FM-MK4HR-60	3,085	14	-	43,190.00	0	43,190.00
5YR Digital UNIX s/w, AS1000	FM-MKOSF-60	5,153	14	-	72,142.00	0	72,142.00
CLIENT SOFTWARE:							
Digital UNIX unlimited user license	QL-MT7AE-AA	6,620	14	(18,536.00)	74,144.00	0	74,144.00
Digital UNIX Alpha Base CD-ROM	QA-MT4AA-H8	314	1	(62.80)	251.20	0	251.20
/iTi TP Monitor Run Time License	/iTi TP Mo	6,000	13	(23,400.00)	54,600.00	46,125	100,725.00
/iTi TP Monitor Development License	/iTi TP Mo	7,500	1	-	7,500.00	-	7,500.00
/iTi TP Monitor Documentation	/iTi TP Mo	295	1	-	295.00	-	295.00
INFORMIX OnLine Development (1 user)	INFORMIX	1,500	1	-	1,500.00	5,400	6,900.00
INFORMIX-ESQL/C Development (1 user)	INFORMIX	375	1	-	375.00	1,500	1,875.00
TERMINAL SUPPORT:							
HTI, ULTRA SlimLine 24 PORT HUB **	DEH1477 (Data C.W.)	280	517	-	144,760.00	0	144,760.00
Multi Multi-Client Desktop Sys	VX47A-F3	-	11,270	-	0.00	0	0.00
Additional WARRANTY AND INSTALLATION:							
* Extended Warranty (M13-60) Avnet Computer	FM-WRNTY-60	46,773	1	-	46,772.75	0	46,772.75
Hardware Installation service	Avnet	61,580	1	-	61,580.00	0	61,580.00
CONFIGURATION TOTAL:					\$3,529,404.32		\$3,778,989.32
** 10% or minimum of 2 spares are added in place of on site service. These products have 5 years return to Vendor Warranty.							tpmC= 13,646.17 \$/tpmC = \$276.93

Notes:

Audited by Tom Sawyer of Performance Metrics, Inc.

Numerical Quantities Summary
Digital AlphaServer 8400 5/350
INFORMIX-OnLine Dynamic Server version 7.20

MQTh, Computed Maximum Qualified Throughput: 13,646.17

Transaction Mix
(% of Total Transactions)

New-Order	44.62%
Payment	43.20%
Order-Status	4.06%
Delivery	4.03%
Stock-Level	4.10%

Response Time (seconds)

Transaction	Average	90th Percentile	Maximum
New-Order	0.90	1.20	67.21
Payment	0.69	0.81	52.52
Order-Status	1.20	1.88	47.79
Delivery (interactive)	0.23	0.23	23.51
Delivery (deferred)	2.76	5.07	30.68
Stock-Level	1.08	1.88	25.38
Menu			

Keying/Think Times (seconds)

	Minimum	Average	Maximum
New-Order	18.00 / 0.00	18.00 / 12.08	18.00 / 120.00
Payment	3.00 / 0.00	3.00 / 12.05	3.00 / 120.00
Order-Status	2.00 / 0.10	2.00 / 10.15	2.00 / 100.00
Delivery (interactive)	2.00 / 0.10	2.00 / 5.08	2.00 / 50.00
Stock-Level	2.00 / 0.10	2.00 / 5.00	2.00 / 50.00

Test Duration:	
Ramp-up time	30.00 minutes
Measurement interval (MI)	30 minutes
Transactions completed during MI	917,572
Ramp-down time	9 minutes
Checkpointing:	
Number of checkpoints	1
Checkpoint interval	30 minutes
Reproducibility:	
Reported measurement	13,646.17
Reproducibility measurement	13,586.60
Difference	0.44%