



Digital Equipment Corporation
&
Oracle Corporation

Digital AlphaServer 8400
5/625
12 CPUs using Oracle8

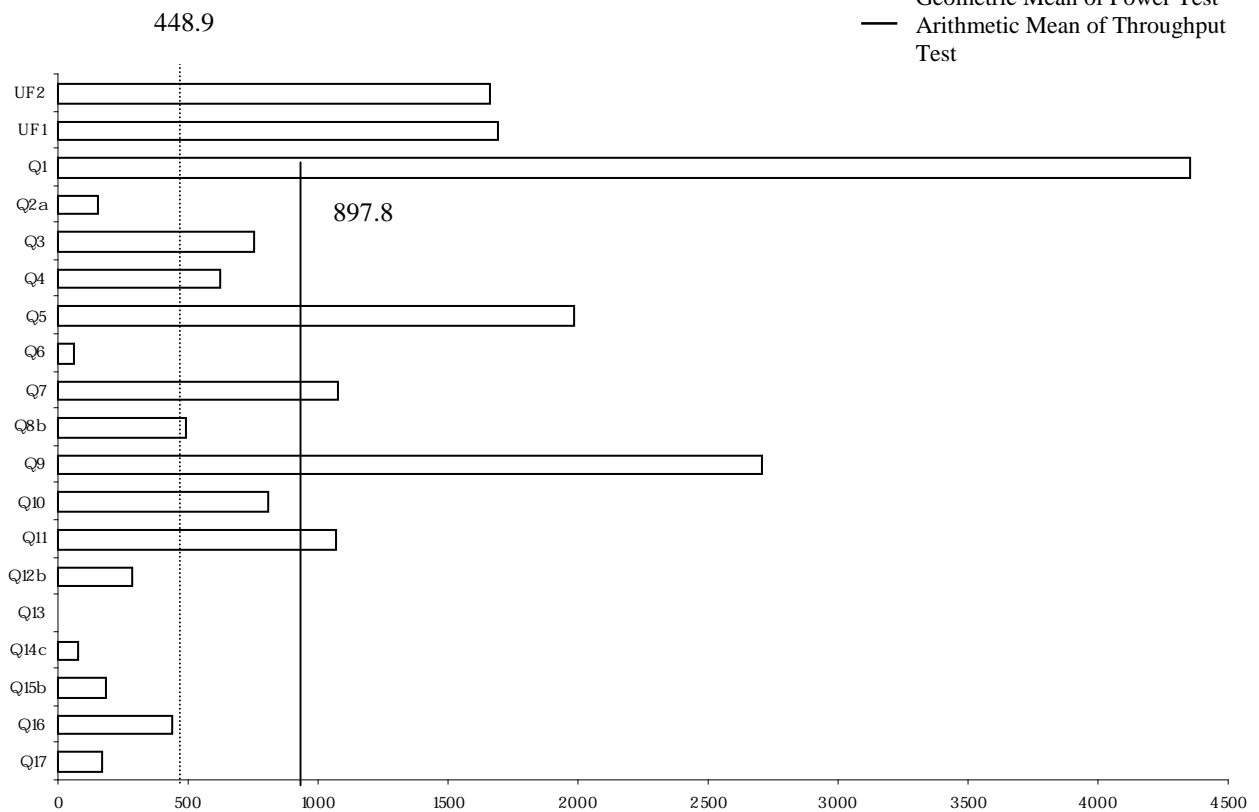
TPC-D Rev. 1.3.1

Report Date:

27 May 98

Total System Cost	TPC-D Power	TPC-D Throughput	Price/Performance	
\$2,649,262	2406.2 QppD@ 300GB	986.1 QthD@ 300GB	\$1,720 QphD@ 300GB	
Database Size	Database Manager	Operating System	Other Software	Availability Date
300GB	Oracle8 v8.0.4	Digital UNIX V4.0D	None	May 27, 1998

Query Time in Seconds



Database Load Time = 22 hours 50 minutes 17 seconds Disk Size/Database Size=7.47 RAID: No

Components	Qty	Type
Processors	12	612 Mhz DECchip 21164
Cache Memory per Processor		4MB
Memory	2	4 GB
Disk Controllers	29	PCI
Disks	521	4.3 GB Disks
Total Disk Storage		2240.3GB



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Description	Part Number	Third Party	Unit Price	Qty	Extended Price	5 yr. Maint. Price
Server Hardware						
		Brand	Pricing			
AS8400 5/625 EXP SYS 4GB UNIX	DA-292GG-BA	1	318,370	1	318,370	81,740
AS8400/8200 5/625 SMP UNIX	758P2-AX	1	42,250	5	211,250	98,965
4 GB AlphaServer 8xxx Memory	MS7CC-GA	1	93,184	1	93,184	32,047
48Volt PowerRegulator Option	H7263-AA	1	5,968	1	5,968	2,644
PCI PIU for 8400 for System Cab	DWLPA-AA	1	5,850	1	5,850	756
2nd 12 Slot PCI for DWLPB-AA	DWLPA-BA	1	5,850	2	11,700	1,512
PCI-HOST BUS ADAPTER (FWD)	KZPSA-BB	1	712	29	20,648	9,715
10 M Cable, SCSI-3 "P" 1S/1R	BN21K-10	1	138	24	3,312	0
White, North American, No Key	VT510-AA	1	245	1	245	0
LK401-AA KYBD, US/UK	LK401-AA	1	49	1	49	0
4.3GB SCSI Narrow HDD in SBB**	DS-RZ29L-VA	1	688	10	6,880	0
5YR;AS8400 DUAL UNIX BRZ24X7	FM-D84US-60	1	34,603	1		34,603
Dig UNIX Alpha CDRM	QA-MT4AA-H8	1	257	1	257	0
			Subtotal		677,713	261,982
Storage						
cab w/fan tray/7200RPM device	SW800-FA	1	4,562	8	36,496	2,680
7Dev Rackm pwr no I/O Module	BA356-JC	1	789	120	94,680	80,280
I/O Module; 16-bits for BA356	BA35X-MH	1	111	120	13,320	Inc
Active Term; SCSI-2 16-bits	BA35X-ME	1	83	120	9,960	Inc
CRD 5500 Raid Storage Unit	CMD5500	1	22,025	24	528,600	
5YR 7X24/4HR CRD 5500 128/FT	CMD/CRD5500	1	7,708	24		184,992
2.0 M Cable, SCSI-3 "P" 1S/1R	BN21K-02	1	94	240	22,560	
4.3GB 7200RPM UltraSCSI HDD**	DS-RZ1CB-VW	1	753	511	384,783	
			Subtotal		1,090,399	267,952
Oracle License	Oracle	2	150,480	1	150,480	200,736
			Subtotal		150,480	200,736
			Total		\$1,918,592.00	\$730,670.00

Notes:** 10% Spares

1=IC System Solutions, 2=Oracle
Audited by Information Paradigm, Inc.

Five-Year Cost of Ownership: \$2,649,262
QphD **1,540.40**
\$/QphD **\$1,720**

Audited By: Francois Raab of Information Paradigm, Inc.

Notes: 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 Specification. If you find that the stated prices are not available according to these terms, please inform the TPC @ tpc.org. Thank you.



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Numeric Quantity Summary

AlphaServer 8400 5/625 12 CPUs

Measurement Results:

Database Scaling (SF/Size)	300
Total Data Storage/Database Size	7.47
Database Load Time	22 hours, 50 minutes, and 17 seconds
Query Streams for Throughput Test	0
TPC-D Power Metric (QppD@300GB)	2406.2
TPC-D Throughput Metric (QthD@300GB)	986.1
Composite QphD@300GB	1540.4
Total System Price Over 5 Years	2,649,262
TPC-D Price/Performance Metric	\$1,720

Measurement Intervals:

Measurement Interval in Throughput Test (Ts)	18,619 seconds
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Duration of Stream Execution:

Stream ID	Seed	Start Date	Start Time	End Date	End Time
Stream 00	1661279136	Sun, May 24, 1998	8:45:53	Sun, May 24, 1998	13:56:12
UF1		Sun, May 24, 1998	8:45:53	Sun, May 24, 1998	9:14:06
UF2		Sun, May 24, 1998	13:28:30	Sun, May 24, 1998	13:56:12

TPC-D Timing Intervals (in seconds)

Q1	Q2a	Q3	Q4	Q5	Q6	Q7	Q8b	Q9	Q10
4357.1	155.5	754.8	625.4	1988.2	63.1	1077.1	491.4	2710.8	810.1

Q11	Q12b	Q13	Q14c	Q15b	Q16	Q17	UF1	UF2
1068.8	288.2	5.9	75.9	186.0	439.7	166.0	1693.7	1661.8