

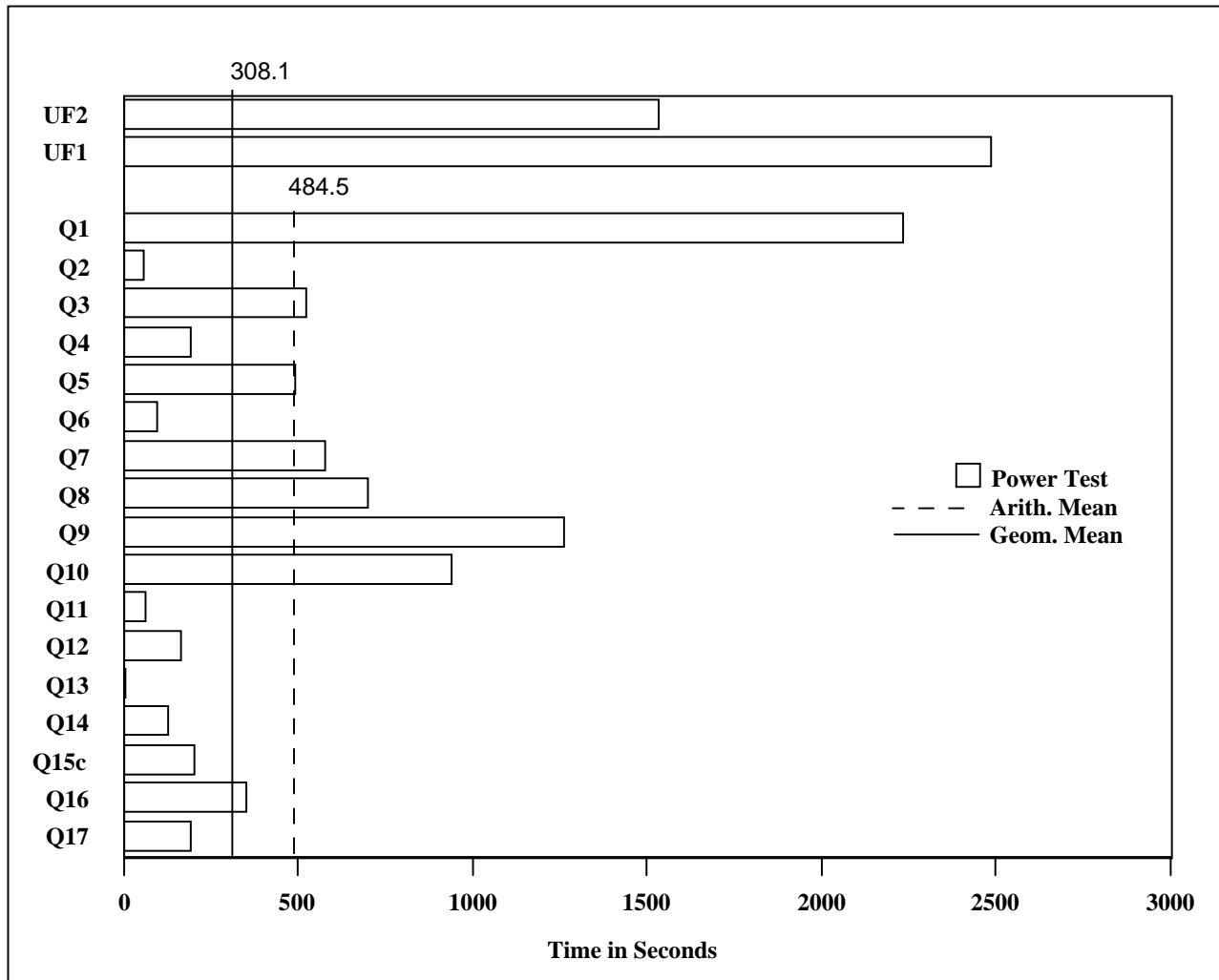


IBM RS/6000 F50-332 with DB2 UDB for AIX, V5

TPC-D Rev. 1.2.3

Report Date:
January 26, 1998
Revised: April 6, 1999

Total System Cost	TPC-D Power	TPC-D Throughput	Price/Performance
\$326,982	1168.1 QppD@100GB	499.1 QthD@100GB	\$428 \$/ QphD@100GB
Database Size 100GB	Database Manager DB2 UDB for AIX, V5	Operating System IBM AIX 4.2.1	Other Software None
			Availability Date March 31, 1998



Database Load Time: 28:38:33 hours	Total Data Storage/Database Size: 4.2	Raid: N
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System Components

Processors	4 x 332MHz PowerPC 604e - 256K L2
Memory	3GB
Disk Controllers	1 PCI F/W SCSI 3 PCI SSA (Serial Storage Architecture)
Disk Drives	18 x 4.5GB F/W SCSI Hot Pluggable 80 x 4.5GB SSA Hot Pluggable
Total GB Storage	420.2 GB



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Server Model F50/332 4way TPC-D Pricing 1 Stream

Description	Part Number	Unit Price	Qty	Extended Price	5 yr. Maint Price
Server Hardware					
RS/6000 Server Model F50	7025-F50	17,900	1	17,900	11,952
1 604e, 128mb Memory, 4,5GB Disk, 2 Intg SCSI2 F/W Adptr, CDROM					
332MHz 2way Proc Card Sel, 2-256kb L2	4357	3,000	1	3,000	2,640
332MHz 2way Proc Card, 2-256kb L2	4359	10,000	1	10,000	5,760
256MB DIMM Memory Select	4106	1,280	1	1,280	0
256MB DIMM Memory Modules	4110	2,560	11	28,160	0
Memory Expansion Feature 2nd Card	4093	1,038	1	1,038	0
16-bit Integrated SCSI Adapter Cable	2447	75	2	150	0
PCI SCSI-2 F/W Adapter	6208	360	1	360	0
PCI SSA 4port RAID Adapter	6215	3,000	3	9,000	0
Internal 4/8 GB 4mm Tape Drive	6142	2,695	1	2,695	0
ASCII Display Station & Cable	3153-BG3	622	1	622	660
Subtotal				74,205	21,012
Server Software					
AIX 4.2.1 F50 + Support	5765-C34	145	1	145	0
C++ for AIX	5765-421	1,578	1	1,578	0
DB2 Enterprise Extended Edition for AIX	0795-115	34,999	1	34,999	0
DB2 EEE for AIX, up to 4 nodes	04L7-900	34,999	1	34,999	0
Subtotal				71,721	0
Storage Devices					
4.5 GB SCSI-2 F/W Hot Swap Disk	2901	1,400	17	23,800	0
SCSI Hot Swap 6-Pack Kits	6519	375	2	750	0
System Rack Model R00	7015-R00	3,110	1	3,110	1,488
SSA Disk Subsystem (Rack-mount)	7133-020	19,350	5	96,750	48,000
4.5 GB Disk Drive Module	3401	1,900	60	114,000	0
SSA Cables	5006	40	10	400	0
Subtotal				238,810	49,488
Total				384,736	70,500
Discounts					
Midrange Service Agreement, Extended Maintenance		17%		(21,932.55)	
IBM Software Revenue Discount		17%		(11,899.66)	
Dollar Volume Discount		30%		(94,421.40)	
Five Year Cost of Ownership:				326,982.39	
	QppD	1168.1			
	QthD	499.1			
	QphD	763.50			
\$/QphD@100GB				428.27	

Audited by Francois Raab, Information Paradigm Inc.

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.



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Numerical Quantities Summary

Measurement Results:

Database Scaling (SF/Size)	=	100
Total Data Storage/Database Size	=	4.2
Database Load Time	=	28:38:33
Query Streams for Throughput Test	=	0
TPC-D Power Metric (QppD@100GB)	=	1,168.1
TPC-D Throughput Metric (QthD@100GB)	=	499.1
Composite Query-per-Hour Rating (QphD@100GB)	=	763.5
Total System Price over 5 years	=	\$326,982
TPC-D Price/Performance Metric (\$/QphD@100GB)	=	\$428

Measurement Intervals

Measurement Interval in Throughput Test (Ts) = 12,263 seconds

Duration of Stream Execution

Stream ID	Seed Used	Start Date	Start Time	End Date	End Time
UF1		12/13/97	14:48:39	12/13/97	15:30:08
Stream 00	1056204987	12/13/97	14:48:39	12/13/97	18:13:02
UF2		12/13/97	17:47:24	12/13/97	18:13:02

Timing Intervals (in Seconds)

Stream ID	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	
Stream 00	2237.6	60.6	527.3	193.6	494.7	101.5	579.4	701.2	1263.2	
Stream ID	Q10	Q11	Q12	Q13	Q14	Q15	Q16	Q17	UF1	UF2
Stream 00	946.4	66.1	169.4	7.1	131.4	207.6	353.3	195.8	2489.1	1537.5