



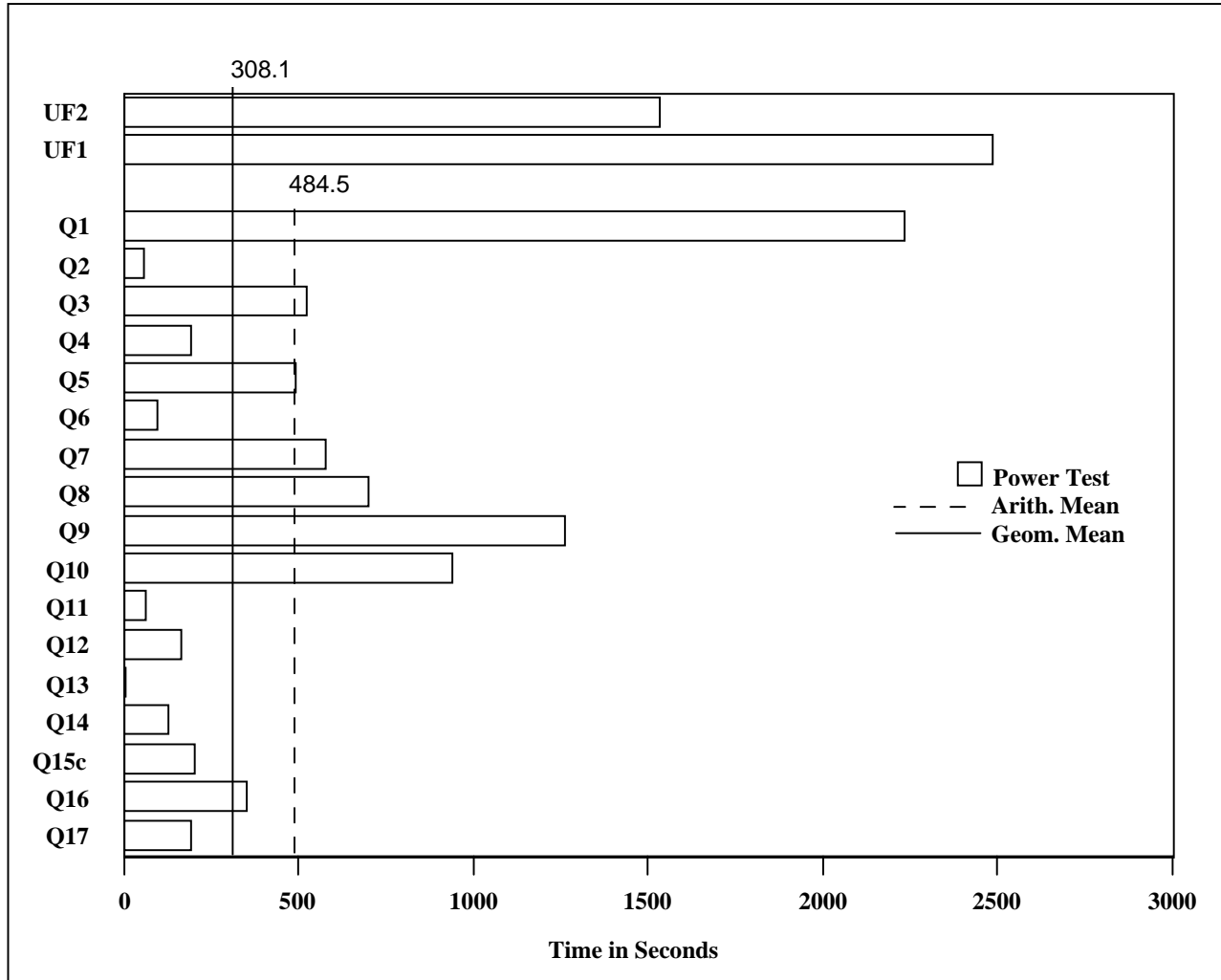
# IBM RS/6000 H50

## with DB2 UDB for AIX, V5

TPC-D Rev. 1.2.3

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

<b>Total System Cost</b>	<b>TPC-D Power</b>	<b>TPC-D Throughput</b>	<b>Price/Performance</b>
<b>\$340,202</b>	<b>1168.1</b> QppD@100GB	<b>499.1</b> QthD@100GB	<b>\$446</b> \$/ QphD@100GB
Database Size <b>100GB</b>	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

### System Components

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



# IBM RS/6000 H50

## with DB2 UDB for AIX, V5

TPC-D Rev. 1.2.3

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

### Server Model H50 4way TPC-D Pricing 1 Stream

Description	Part Number	Unit Price	Qty	Extended Price	5 yr. Maint Price
<b>Server Hardware</b>					
RS/6000 Server Model H50	7025-H50	22,000	1	22,000	10,992
<b>128mb Memory, 4,5GB Disk,</b>					
2 Intg SCSI2 F/W Adptr, CDROM					
<b>332MHz 2way Proc Card Sel, 2-256kb L2</b>	4338	3,000	1	3,000	1,920
<b>332MHz 2way Proc Card, 2-256kb L2</b>	4320	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
<b>Subtotal</b>				78,305	19,332
<b>Server Software</b>					
<b>AIX 4.2.1 H50 + Support</b>	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
<b>Subtotal</b>				71,721	0
<b>Storage Devices</b>					
4.5 GB SCSI-2 F/W Hot Swap Disk	2901	1,400	11	15,400	0
SCSI Hot Swap 6-Pack Kits	6519	375	2	750	0
Multi-Storage Tower w/ 2 x 4.5 GB Disks	7131-105	6,150	1	6,150	6,720
4.5 GB SCSI-2 1" Hot-swap Disk	3090	1,900	3	5,700	0
4.5 GB SCSI-2 1" non Hot-swap Disk	3036	1,800	1	1,800	0
System Rack Model R00	7015-R00	3,110	2	6,220	2,976
SSA Disk Subsystem w/ 4 - 4.5GB Disks	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
<b>Subtotal</b>				247,170	57,696
<b>Total</b>				<b>397,196</b>	<b>77,028</b>
<b>Discounts</b>					
Midrange Service Agreement, Extended Maintenance		17%		(23,963.41)	
IBM Software Revenue Discount		17%		(11,899.66)	
Dollar Volume Discount		30%		(98,159.40)	
<b>Five Year Cost of Ownership:</b>				<b>340,202</b>	
	QppD	1168.1			
	QthD	499.1			
	QphD	763.54			
<b>\$/QphD@100GB</b>				<b>446</b>	

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](mailto:pricing@tpc.org). Thank you.



**IBM RS/6000 H50**  
with **DB2 UDB for AIX, V5**

TPC-D Rev. 1.2.3

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

**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	=	\$340,202
TPC-D Price/Performance Metric (\$/QphD@100GB)	=	\$446

**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