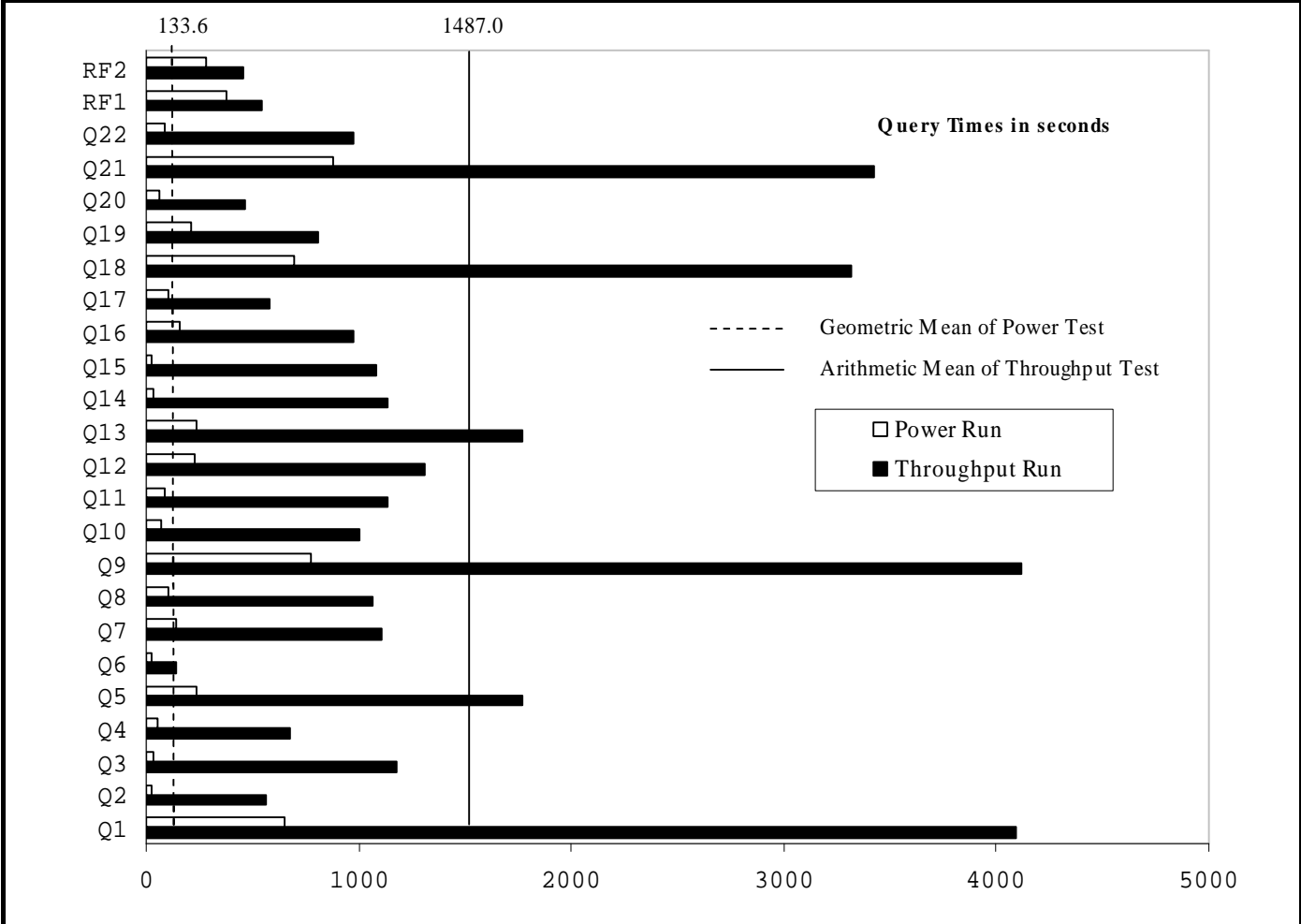
		HP Integrity Superdome		TPC-H Rev. 2.6.0	
				Report Date May 21, 2007	
Total System Cost		Composite Query per Hour Rating		Price Performance	
\$1,967,970 USD		60,359.3 QphH @ 3000G		\$32.60 USD \$ / QphH @3000G	
Database size	Database Manager	Operating System	Other Software	Availability Date	
3000G	Microsoft SQL Server 2005 Enterprise Edition for Itanium-based systems SP2	Microsoft Windows Server 2003, Datacenter Edition (64-bit) SP1	MS Visual Basic MS Visual C++ MS Resource Kit	May 21, 2007	



Database Load Time = 25h45m26s Load included backup: Y Total Data Storage / Database Size = 11.24 RAID(Base Tables): Y RAID(Base Tables and Auxiliary Data Structure): Y RAID(All)= Y	
System configuration	
Processors/Cores/Threads	32/64/64 DC Itanium 2 Processor 9050 @ 1.6GHz / 18MB
Memory	256 GB Main Memory
Disk Controllers	49 SmartArray 6402 2 Fibre Channel Controllers
Disk Drives	6 36GB SCSI (Boot/Tools) 988 36GB SCSI (DB/Log)
Total Disk Storage	33,715 GB



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Description	Price Key	Part Number	Unit Price	Qty.	Extended Price	3 Yr Maint Price
HP Superdome 32p/64c Chassis	1	A9834A, Opt. 429	\$235,950	1	\$235,950	
IPF Superdome Cell Board (sx2000)	1	A9837A	\$19,250	8	\$154,000	
HP 12 Slot PCI-X Chassis for sx2000	1	A9836A	\$16,950	4	\$67,800	
3 Year Svc & Support Price (Hardware and Software)	1			1		\$667,176
HP Superdome Itanium2 1.6 GHz/18MB CPU	1	AB406A	\$23,000	32	\$736,000	
Superdome 256GB Memory Pack	1	A9856A	\$611,950	1	\$611,950	
Graphite I/O expansion power subsystem	1	A5861D	\$34,860	1	\$34,860	
12 Slot PCI I/O Enclosure	1	A9852A	\$25,750	1	\$25,750	
12 Slot PCI-X Chassis for rack expansion cabinet	1	A9836AZ	\$16,950	4	\$67,800	
HP ProCurve Switch2124	1	J4868AZ	\$279	1	\$279	\$219
HP Superdome Rack System Mgmt. Station	1	A9802B	\$6,500	1	\$6,500	
1U RackMT Display/Keyboard/Mouse	1	AB243AZ	\$3,046	1	\$3,046	
1000Base-T Gigabit Eth Adp	1	A9900A	\$486	1	\$486	
FC-HBA 2GB, 1 Channel	1	AB467A	\$1,520	2	\$3,040	
HP Smart Array Controller 6402 (incl. boot)	1	A9890A	\$1,669	49	\$81,781	
HP Dual Channel U320 SCSI Adapter	1	A7173A	\$795	1	\$795	
36GB, 15krpm Ultra3 Wide disk	1	286776-B22	\$319	994	\$317,086	
Storageworks MSA30 SB (incl boot)	1	302969-B21	\$2,829	97	\$274,413	
Storage MSA30 Support 3yrs 24x7 4 hr incl disks	1	HA110A3 #7GT	\$1,827	97		\$177,219
SW 4000 39FT Cable All	1	150214-B21	\$114	97	\$11,058	
HP Universal Rack 10642 G2	1	AF002A	\$1,489	7	\$10,423	
HP 10642 G2 Sidepanel Kit	1	AF054A	\$359	7	\$2,513	
4 Bay Rack Support	1	HA1103A Opt 6EC	\$1,558	1		\$1,558
HP 16A High Voltage Modular PDU	1	252663-B24	\$299	21	\$6,279	
Modular Storage Array 1000	1	201723-B22	\$6,995	2	\$13,990	
MSA1000 controller	1	218231-B22	\$4,290	4	\$17,160	
MSA1000 Fibre Channel I/O Module	1	218960-B21	\$375	2	\$750	
Storage MAS1000 Support 3yrs 24x7 4hr incl disks	1	HA110A3 #6FG	\$3,222	2		\$6,444
5M LC to LC Cable Kit	1	221692-B22	\$82	2	\$164	
SCSI Cable 10m VHDT568 / HDTS68 Multimd	1	C2363B	\$335	1	\$335	
SCSI Terminator LVD/SE HDTS68 Multimd	1	C2364A	\$100	1	\$100	
HP C13/C14 Jumper Cord 2.5M	1	E7742A	\$25	1	\$25	
5300 Tape Array	1	C7508BZ	\$1,045	1	\$1,045	
DVD Rom drive	1	Q1592A	\$649	1	\$649	
		Server Subtotal			\$2,686,027	\$852,616



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Microsoft Windows Server 2003 DC Edition 64-bit Service Pack 1	1	T2372A opt032	\$64,000	1	\$64,000	
Microsoft SQL Server 2005 Enterprise Edition	2	810-04794	\$8,487	1	\$8,487	\$245
Microsoft SQL Server 2005 Client License	2	359-01911	\$156	45	\$7,020	
Microsoft Visual C++ Standard	2	254-00170	\$109	1	\$109	
Microsoft Visual Basic	2	046-00856	\$109	1	\$109	
Server Software Subtotal					\$79,725	\$245
Total Extended Price					\$3,618,613	
Total Discounts					\$1,650,643	
HP's Large Configuration Discount *						
Price Key: 1-HP, 2-Microsoft Audited by Lorna Livingtree of Performance Metrics, Inc.	3 year cost of ownership:				\$1,967,970 USD	
* All discounts are based on US list prices and for similar quantities and configurations. A 46.64 % discount was based on the overall specific components and support pricing from vendor 1 in this single quotation. Discounts for similarly sized configurations will be similar to those quoted here, but may vary based on the components in the configuration.	QphH @ 3000GB				6,0359.3	
	\$/QphH @ 3000GB				\$32.61 USD	
	Sales contact: HP Sales Development, 19111 Pruneridge Ave., Cupertino, CA 95014 (408) 447 2320					



Numerical Quantities

Measurement Results

Database Scale Factor	3000GB
Total Data Storage / Database Size	11.24
Start of Database Load	2007-04-28 16:04:13
End of Database Load	2007-04-29 17:49:38
Database Load Time	25h45m26s
Query Streams for Throughput Test	8
TPC-H Power	80,838.3
TPC-H Throughput	45,068.3
TPC-H Composite Query-per-Hour (QphH@3000GB)	60,359.3
Total System Price over 3 Years	\$1,967,970 USD
TPC-H Price/Performance Metric (USD /QphH@3000GB)	\$32.60 USD / QphH@3000GB

Measurement Interval

Measurement Interval in Throughput Test (Ts) = seconds 42176 seconds

Duration of Stream Execution

	Seed	Query Start Date/Time	Query End Date/Time	RF1 Start Date/Time	RF1 End Date/Time	RF2 Start Date/Time	RF2 End Date/Time	Duration
Stream 00	429174938	04/29/07 22:08:39	04/29/07 23:30:55	04/29/07 22:00:26	04/29/07 22:06:49	04/29/07 23:30:55	04/29/07 23:35:34	1:35:08
Stream 01	429174939	04/29/07 23:35:36	04/30/07 8:32:18	4/30/07 9:03:03	4/30/07 9:10:53	04/30/07 9:10:54	04/30/07 9:17:47	9:42:11
Stream 02	429174940	04/29/07 23:35:36	04/30/07 9:01:17	4/30/07 9:17:49	4/30/07 9:26:01	04/30/07 9:26:02	04/30/07 9:32:55	9:57:19
Stream 03	429174941	04/29/07 23:35:36	04/30/07 8:19:34	4/30/07 9:32:58	4/30/07 9:41:55	04/30/07 9:41:57	04/30/07 9:49:20	10:13:44
Stream 04	429174942	04/29/07 23:35:36	04/30/07 8:48:35	4/30/07 9:49:24	4/30/07 9:58:34	04/30/07 9:58:36	04/30/07 10:06:38	10:31:02
Stream 05	429174943	04/29/07 23:35:37	04/30/07 8:29:16	4/30/07 10:06:43	4/30/07 10:16:08	04/30/07 10:16:11	04/30/07 10:23:52	10:48:15
Stream 06	429174944	04/29/07 23:35:37	04/30/07 8:29:08	4/30/07 10:23:57	4/30/07 10:33:35	04/30/07 10:33:37	04/30/07 10:41:52	11:06:14
Stream 07	429174945	04/29/07 23:35:38	04/30/07 8:43:36	4/30/07 10:41:59	4/30/07 10:51:51	04/30/07 10:51:54	04/30/07 11:00:01	11:24:23
Stream 08	429174946	04/29/07 23:35:39	04/30/07 9:03:01	4/30/07 11:00:10	4/30/07 11:10:18	04/30/07 11:10:22	04/30/07 11:18:31	11:42:53



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TPC-H Timing Intervals (in seconds):

Query	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8
Stream 0	650.2	22.2	37.2	55.4	237.8	30.4	136.7	104.8
Stream 1	3918.9	634.2	1010.9	1223.5	2552.7	115.6	1037.4	759.4
Stream 2	3765.7	441.8	640.5	767.6	1012.4	247.3	1317.3	1284.2
Stream 3	3203.2	188.1	2374.1	346.1	2213.5	141.4	1477.6	1321.8
Stream 4	5912.4	89.2	201.9	410.9	819.4	64.5	463.7	1498.0
Stream 5	4552.4	1177.8	1044.8	553.2	2050.3	145.1	1272.7	951.4
Stream 6	3978.3	460.1	1822.1	640.4	1334.2	122.5	1179.9	1209.4
Stream 7	2683.4	1007.1	1920.0	953.0	1231.8	155.5	943.7	543.2
Stream 8	4739.6	488.8	426.2	530.7	2920.1	155.5	1182.0	942.3
Min Qi	2683.4	89.2	201.9	346.1	819.4	64.5	463.7	543.2
Max Qi	5912.4	1177.8	2374.1	1223.5	2920.1	247.3	1477.6	1498.0
Avg Qi	4094.2	560.9	1180.1	678.2	1766.8	143.4	1109.3	1063.7
Query	Q9	Q10	Q11	Q12	Q13	Q14	Q15	Q16
Stream 0	770.3	68.0	90.8	231.5	240.5	34.3	30.2	161.9
Stream 1	4435.3	944.9	893.7	1221.3	1392.7	482.1	2063.4	923.3
Stream 2	3596.9	1408.7	2507.1	2825.4	1598.2	2196.6	733.3	644.5
Stream 3	4844.1	1228.4	597.8	726.1	1563.6	1108.8	191.0	750.4
Stream 4	3550.9	668.9	1286.6	1341.9	2184.9	959.0	2350.5	1322.1
Stream 5	3511.7	345.2	1221.2	780.4	2457.6	458.7	1004.3	1319.6
Stream 6	4141.4	967.3	628.8	1469.6	1530.3	542.1	898.3	1472.2
Stream 7	3872.9	551.7	1835.2	746.2	2055.9	2266.7	806.4	665.8
Stream 8	5015.5	1945.1	89.7	1381.8	1380.0	1072.5	591.6	693.8
Min Qi	3511.7	345.2	89.7	726.1	1380.0	458.7	191.0	644.5
Max Qi	5015.5	1945.1	2507.1	2825.4	2457.6	2266.7	2350.5	1472.2
Avg Qi	4121.1	1007.5	1132.5	1311.6	1770.4	1135.8	1079.9	974.0
Query	Q17	Q18	Q19	Q20	Q21	Q22	RF1	RF2
Stream 0	101.6	694.7	209.1	62.0	878.3	88.4	382.8	278.7
Stream 1	288.4	3365.6	526.4	769.0	2684.2	959.2	469.5	413.5
Stream 2	1242.1	3184.5	539.5	542.2	2373.1	1072.4	491.4	413.2
Stream 3	576.3	3085.2	1176.0	262.2	3497.5	564.2	536.8	443.5
Stream 4	834.9	2833.2	623.8	200.2	5279.4	282.5	550.4	481.9
Stream 5	369.1	4352.1	683.5	467.0	2683.7	617.1	565.4	461.0
Stream 6	325.4	3493.8	973.0	254.9	3289.7	1276.5	578.1	494.6
Stream 7	381.9	3528.7	592.4	817.9	4051.7	1266.6	592.5	486.8
Stream 8	624.4	2735.1	1352.1	425.8	3540.3	1809.7	608.2	489.7
Min Qi	288.4	2735.1	526.4	200.2	2373.1	282.5	469.5	413.2
Max Qi	1242.1	4352.1	1352.1	817.9	5279.4	1809.7	608.2	494.6
Avg Qi	580.3	3322.3	808.3	467.4	3425.0	981.0	549.0	460.5