

	IBM @set	rver xSer	ries 250	TPC-H	I Revision	n 1.3.0	
	0	licrosoft					
	SOL	Server 2	000	Report March	23, 2001		
Description	Part Number	Source	Unit Price	Qty	Ext. Price	5-Yr.	
Description		oource	Onici nee	Qty	LAL I HOG	Maint.	
Server Hardware							
xSeries 250 / 900MHz/2MB L2 Cache Pentium III Xeon	8665-8RY	1	11,203	1	11,203	10,295	
900MHz / 2MB L2 Cache Processor	19K4635	1	6,599	3	19,797	0	
1GB SDRAM ECC RDIMM II	33L3119	4	2,320	4	9,280	0	
Mylex eXtremeRAID 2000 Adapter*	E2000-4-32NB	3	1,872	7	13,104	0	
Netfinity 4.2M Ultra2 SCSI Cable	03K9311	4	99	18	1,782	0	
250W Hot-Swap Redundant Power Supply	37L3760	1	299	1	299	0	
E54 15" (13.8" Viewable) Color Monitor	6331N2N	4	165	1	165	270	
Netfinity Rack	9306900	4	1,580	1	1,580	1,308	
Side Panel Kit	94G6669	4	179	1	179	0	
			:	Subtotal	\$57,389	\$11,873	
Server Storage							
Netfinity EXP300 Rack Storage Expansion Enclosure	35311RU	4	2,858	9	25,722	7,074	
Netfinity 9.1GB 15K Ultra160 SCSI Drive	19K0655	4	538	121	65,098	0	
			:	Subtotal	\$90,820	\$7,074	
Server Software							
Microsoft SQL Server 2000 Enterprise Edition	810-00652	2	5,549	1	5,549	10,475	
Microsoft SQL Server 2000 Client Licenses	359-00532	2	7,300	1	7,300	InclAbove	
Microsoft Windows 2000 Advanced Server	C10-00475	2	2,399	1	2,399	InclAbove	
Visual Studio Professional 6.0 Win32	659-00390	2	1,079	1	1,079	InclAbove	
			:	Subtotal	\$16,327	\$10,475	
				Total	\$164,536	\$29,422	
Notes: Standard 3-Year and extended warranties			5-Year Cos	t of Own	ership:	\$193,958	
coverage. *10% or minimum 2 spares are added in 5-year return-to-vendor warranty.		e; product has a	6	QphH @ 1	100GB:	1147.9	
Pricing: 1 - IBM List Price; 2 - Microsoft Corp.; 3 - Audited by Brad Askins of InfoSizing, Inc			QphH @ 1		\$169		

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. Al 1 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 stated prices are not available according to these terms, please inform the TPC at pricing@tpc.org. Thank you.

IBM	IBM @server xSeries 250 with	ТРС-Н Rev 1.3.0			
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Measurement Results:

Database Scale Factor	100
Total Data Storage/Database Size	10.25
Start of Database Load	08:13:11
End of Database Load	15:43:10
Database Load Time	07:29:59
Query Streams for Throughput Test	5
TPC-H Power	1676.5
TPC-H Throughput	785.9
TPC-H Composite Query-per-Hour (QphH@100GB)	1,147.9
Total System Price over 5 Years	\$193,958
TPC-H Price/Performance Metric (\$/QphH@100GB)	\$169

Measurement Interval:

Measurement Interval in Throughput Test (Ts) = 50,385 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		03/12/01 11:16:45	03/12/01 11:15:00	03/12/01 14:04:32	00 54 40	
	311154310	03/12/01 14:04:31	03/12/01 11:16:40	03/12/01 14:06:16	02:51:16	
Stream 01	044454044	03/12/01 14:06:18	03/12/01 14:06:18	03/13/01 03:46:05	40.07.54	
Stream 01	311154311	03/13/01 03:44:12	03/13/01 03:46:01	03/13/01 03:48:18	13:37:54	
Standard 00	311154312	03/12/01 14:06:18	03/13/01 03:48:19	03/13/01 03:50:36	40.05.04	
Stream 02		03/13/01 02:41:49	03/13/01 03:50:34	03/13/01 03:52:52	12:35:31	
Stan and 02	311154313	03/12/01 14:06:18	03/13/01 03:52:54	03/13/01 03:55:11	10.00.00	
Stream 03		03/13/01 03:06:56	03/13/01 03:55:10	03/13/01 03:57:25	13:00:38	
Streem 0.4	044454044	03/12/01 14:06:18	03/13/01 03:57:27	03/13/01 03:59:46	40.00.40	
Stream 04	311154314	03/13/01 02:45:07	03/13/01 03:59:45	03/13/01 04:01:52	12:38:48	
Stream 05	311154315	03/12/01 14:06:19	03/13/01 04:01:54	03/13/01 04:04:00	11.00.10	
		03/13/01 01:29:38	03/13/01 04:03:59	03/13/01 04:06:03	11:23:19	

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TPC-H Timing Intervals (in seconds):

Query	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12
Stream 00	1,182.2	21.2	382.5	395.0	519.8	50.3	404.9	221.8	1,518.9	382.7	248.0	434.9
Stream 01	1,165.3	300.4	932.7	399.7	1,423.5	153.8	1,211.3	5,226.5	4,720.7	815.2	1,804.1	936.6
Stream 02	2,167.7	373.6	1,021.4	942.7	1,593.1	170.1	1,258.9	557.0	6,980.2	915.7	3,178.1	1,163.3
Stream 03	3,014.4	295.9	502.2	1,043.2	1,519.8	97.9	1,025.2	3,183.0	6,863.8	910.9	4,650.8	551.9
Stream 04	2,775.6	455.3	739.5	1,437.5	1,698.8	105.2	960.1	579.3	7,062.4	943.3	4,134.6	992.8
Stream 05	2,557.5	459.1	880.6	968.5	1,392.1	105.0	928.6	399.9	3,610.1	789.3	2,582.5	1,579.8
Minimum	1,165.3	295.9	502.2	399.7	1,392.1	97.9	960.1	399.9	3,610.1	789.3	1,804.1	551.9
Average	2,336.1	376.9	815.3	958.3	1,525.5	126.4	1,076.8	1,989.1	5,847.4	874.9	3,270.0	1,044.9
Maximum	3,014.4	459.1	1,021.4	1,437.5	1,698.8	170.1	1,258.9	5,226.5	7,062.4	943.3	4,650.8	1,579.8
Stream ID	Q13	Q14	Q15	Q16	Q17	Q18	Q19	Q20	Q21	Q22	RF1	RF2
Stream 00	460.7	51.6	81.6	260.5	45.7	1,266.2	74.1	37.1	1,923.1	103.1	100.1	103.8
04	0.000 5	405.0	4 5 40 7	700.0	000.0	7 405 0	544.0	0 070 0	40.404.0	400.4	40.400.0	400 7

Stream 00	460.7	51.6	81.6	260.5	45.7	1,266.2	74.1	37.1	1,923.1	103.1	100.1	103.8
Stream 01	2,090.5	195.8	1,548.7	792.2	829.6	7,405.0	514.0	6,070.6	10,434.8	103.4	49,183.2	132.7
Stream 02	1,074.4	254.2	1,518.6	2,001.5	1,046.1	5,875.8	2,185.6	253.9	10,240.9	198.2	135.4	136.0
Stream 03	744.7	253.2	1,579.8	322.3	1,378.1	7,383.9	398.4	354.7	10,594.4	169.5	136.0	134.5
Stream 04	1,306.2	323.7	1,529.0	610.1	294.0	5,970.2	934.4	908.0	11,564.4	203.6	137.9	126.0
Stream 05	922.0	109.9	1,263.4	1,500.6	1,504.0	6,729.9	915.0	76.7	11,587.9	136.9	124.6	123.0
Minimum	744.7	109.9	1,263.4	322.3	294.0	5,875.8	398.4	76.7	10,240.9	103.4	124.6	123.0
Average	1,227.6	227.4	1,487.9	1,045.3	1,082.4	6,673.0	989.5	1,532.8	10,884.5	162.3	9,943.4	130.4
Maximum	2,090.5	323.7	1,579.8	2,001.5	1,504.0	7,405.0	2,185.6	6,070.6	11,587.9	203.6	49,183.2	136.0