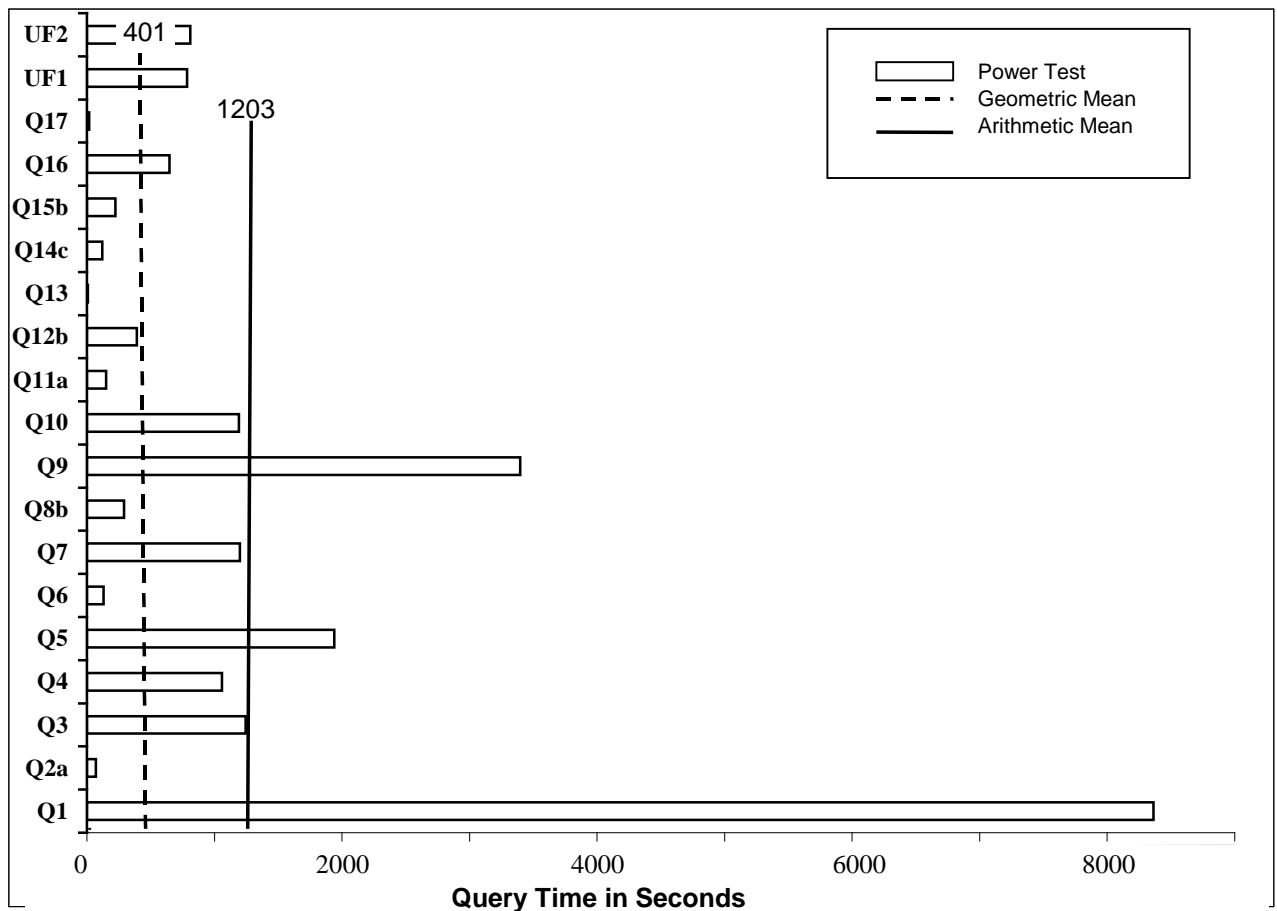


<b>DELL Computer Corp.</b>		<b>DELL PowerEdge 6100 with Oracle 8.0.4</b>		TPC-D Rev. 1.2.3
				Report Date: 1/6/98
Total System Cost		TPC-D Power	TPC-D Throughput	Price/Performance
<b>336,116</b>		<b>898.2</b> QppD @ 100GB	<b>277.6</b> QthD @ 100GB	<b>673.04</b> \$ per QphD @ 100GB
Database Size	Database Manager	Operating System	Other Software	Availability Date
100GB	Oracle 8.0.4	Microsoft NT 4.0 Enterprise Server SP 3	Visual C++ MKS Toolkit	12/31/1997



Database Load Time	39:33:00	Total Disk/Database Size	7.54	RAID: N
--------------------	----------	--------------------------	------	---------

**MAJOR SYSTEM COMPONENTS**

Node:	<b>1 DELL PowerEdge 6100</b>	Disk Controllers:	<b>6 disk controllers</b>
Processors:	<b>4 200MHz PentiumPro</b>	Disk Storage System:	<b>18 DELL disk subsystems</b>
Cache:	<b>1MB L2, each Processor</b>	Disk Drives:	<b>82 9GB; 4 4GB</b>
RAM:	<b>2 GB</b>	Total Disk Storage:	<b>754 GB</b>
Network Interface:	<b>1 Network Interface Card</b>		

<b>DELL Computer Corp.</b>		<b>DELL PowerEdge 6100 with Oracle 8.0.4</b>				TPC-D Rev. 1.2.3	
						Report Date:	1/6/98
Description	Part Number	Note #	Unit Price	Qty	Extended Price	5-yr Maint. Price	
<b>Central Equipment</b>							
Dell PowerEdge 6100							
with 1 PentiumPro200-1MB L2	220-0376	1	7,036	1	7,036	3,083	
2nd Processor Card	311-0346	1	859	1	859		
Pentium Pro200-1MB L2	311-0345	1	3,269	3	9,807		
2GB ECC RAM	311-1424	1	10,199	1	10,199		
Ultascan 800 HS Monitor	320-5401	1	374	1	374		
AMI MegaRAID 434, 16M EDO	43432100016	2	2,215	8	17,720		
AMI MegaRAID Battery Backup	42400000000	2	368	8	2,944		
Intel EtherExpress Pro/10+ Single Combo Network Adapter	L371469	1	115	1	115		
				Subtotal	49,054	3,083	
<b>Storage Devices</b>							
Dell PowerEdge Scalable Disk System	220-9031	1	1,449	18	26,082	42,894	
SCSI Cables	310-0052	1	129	18	2,322		
9GB Pluggable UW SCSI-3 Disk Drive	340-5880	1	899	82	73,718		
4GB Pluggable UW SCSI-3 Disk Drive, 10,000 RPM	340-0483	1	899	4	3,596		
				Subtotal	105,718	42,894	
<b>Software</b>							
Oracle 8.0.4		3	50,160	1	50,160	66,640	
MS NT Server 4.0 Enterprise , 25CAL		4	3,999	1	3,999	10,475	
MS Visual C++ v5.0		4	499	1	499	2,495	
MKS Toolkit for NT		5	399	1	399	700	
				Subtotal	55,057	80,310	
				Total	209,829	126,287	
<b>Total 5-Year Cost of Ownership</b>						<b>\$336,116</b>	
<b>Price/Performance (QphD@100GB)</b>						<b>\$673.04</b>	
Audited By: Francois Raab, Information Paradigm Inc.							
Notes: 1 Source is Dell Computers Corp. Prices are in effect prior to Dec 26, 97. Items are currently available. Maintenance for the Disk Drives is included in the Maintenance for the PowerEdgeScalable Disk System							
2 Source is American Megatrends Inc. Prices are in effect prior to Dec 26, 97. Items are currently available. 2 spares are added in place of onsite service (products have a 5 year return-to-vendor warranty)							
3 Source is Oracle. Prices are in effect Dec 31, 97. Items are currently available.							
4 Source is Microsoft. Prices are in effect prior to Dec 26, 97. Items are currently available.							
5 Source is Mortice Kern Systems. Prices are in effect prior to Dec 26, 97. Items are currently available.							
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 base 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 section 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.							

<b>DELL Computer Corp.</b>	<b>DELL PowerEdge 6100 with Oracle 8.0.4</b>		TPC-D Rev. 1.2.3							
			Report Date: 1/6/98							
NUMERICAL QUANTITIES SUMMARY										
<b>Measurement Results:</b>										
Database Scaling (SF/Size)		=	100							
Total Data Storage / Database Size		=	7.54							
Database Load Time		=	39:33:00							
Query Streams for Throughput Test (S)		=	0							
TPC-D Power Metric (QppD@100GB)		=	898.2							
TPC-D Throughput Metric (QthD@100GB)		=	277.6							
Composite Query-per-Hour Rating (QphD@100GB)		=	499.4							
Total System Price Over 5-years		=	\$336,116							
TPC-D Price/Performance Metric (Price-per-QphD@100GB)		=	673.0							
<b>Measurement Intervals:</b>										
Measurement Interval in Throughput Test (Ts)		=	22046 seconds							
<b>Duration of stream execution:</b>										
Stream	Seed		Start Date / Time		End Date / Time		Total Time			
00	332300075		12/27/97 / 16:04:16		12/27/97 / 22:11:42		6:07:26			
Updates(1)										
UF1(01)	N/A		12/27/97 / 16:04:16		12/27/97 / 16:17:23		0:13:07			
UF2(01)	N/A		12/27/97 / 21:58:12		12/27/97 / 22:11:42		0:13:30			
<b>Timing Intervals (in Sec.):</b>										
Query	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>
Stream 00	8362.8	71.4	1245.6	1059.5	1939.2	130.1	1199.5	291.9	3398.5	1192.1
Query	<b>11</b>	<b>12</b>	<b>13</b>	<b>14</b>	<b>15</b>	<b>16</b>	<b>17</b>	<b>UF1</b>	<b>UF2</b>	
Stream 00	151.4	390.9	8.4	120.8	222.1	647.6	18.4	785.3	810.9	