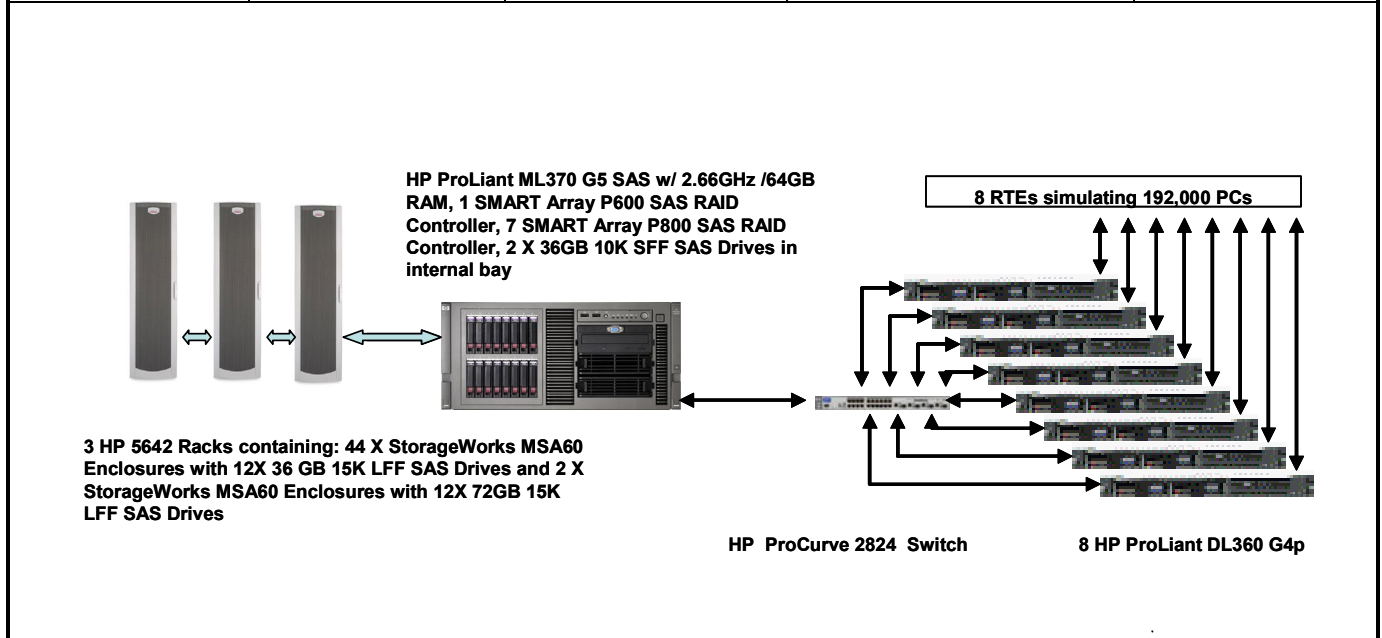


Hewlett-Packard Company	HP ProLiant ML370 G5 SAS Intel X5355 QC	TPC-C Rev. 5.7
	C/S with 8 HP ProLiant DL360 G4p	Report Date: Nov. 13, 2006

Total System Cost	TPC-C Throughput	Price/Performance	Availability Date
USD \$443,553	240,737	USD \$1.85	Feb. 1 , 2007

Database Server Processors /Cores/Threads	Database Manager	Operating System	Other Software	Number of Users
2/8/8 Intel X5355 2.66GHz QC	Microsoft SQL Server 2005 Enterprise x64 Edition SP1	Windows Server 2003 Enterprise x64 Edition SP1	Microsoft Visual C++ Microsoft COM+	192,000



	Server		Each Client	
System Components	Quantity	Description	Quantity	Description
Processors/Cores/Threads	2/8/8	2.66GHz Intel X5355 QC w/ 8M Cache	2/2/4	3.6 GHz Intel Xeon w/ 2MB cache
Memory	8	8 GB DDR (2 X 4 GB)	1	1024 MB
Disk Controllers	1	Smart P600 Controller	1	Integrated Smart Array 6i Controller
	7	Smart P800 Controller		
Disk Drives	24	72GB 15K LFF SAS Drives (log)	2	36 GB SCSI Drive
	528	36 GB 15K LFF SAS Drives (data)		
	2	36 GB 10K SFF SAS Drives (internal, O/S)		
Total Storage		19,554 GB		72 GB

Hewlett-Packard Company	HP ProLiant ML370 G5 SAS			TPC-C Rev. 5.7		
	Intel X5355 QC Client/Server			Report Date	13-Nov-06	
Description	Part Number	Third Party	Unit Price	Qty	Extended Price	3 yr. Maint. Price
Server Hardware						
Brand Pricing						
HP ML370 G5 Rack SAS MOD-FX Svr	400606-B21	1	1,513	1	1,513	
HP X2.66GHz/1333MHz, 120W processor kit	433104-B21	1*	1,999	2	3,998	
8GB FBD PC2-5300 2 x 4GB Kit	397415-B21	1	8,499	8	67,992	
HP ML370 G5 Mem. Board Kit	403766-B21	1	179	1	179	
HP Smart Array P800/512MB SAS Controller	381513-B21	1*	1,299	7	9,093	
HP SMART Array P600 3G SAS/SATA RAID Controller	337972-B21	1	729	1	729	
HP s7540 17in. CRT Monitor	PF997AA#ABA	1	139	1	139	
HP PS/2 Scroll Mouse carbonite	DG169AV	1	5	1	5	
HP Enhanced Keyboard	DG170AV#ABA	1	10	1	10	
HP 5642 Pallet Unassembled Rack	358254-B21	1	689	3	2,067	
UPS R1500 XR Low Voltage US	204404-001	1	866	1	866	
HP 36GB 15K SAS 3.5 Hot Plug Hard Drive	375868-B21	1	269	528	142,032	
HP 36GB 15K SAS 3.5 Hot Plug Hard Drive (10% Spares)	375868-B21	1	269	53		14,257
HP 72GB 15K SAS 3.5 Hot Plug Hard Drive	375870-B21	1	399	24	9,576	
HP 72GB 15K SAS 3.5 Hot Plug Hard Drive (10% Spares)	375870-B21	1	399	3		1,197
HP 36GB 10K SAS 2.5 Hot Plug Hard Drive	375859-B21	1	279	2	558	
HP StorageWorks MSA-60 Storage	418408-B21	1*	3,250	46	149,500	
HP StorageWorks MSA-60 Storage (10% Spares)	418408-B21	1*	3,250	5		16,250
HP CPe 3Y 4H 24x7 HW ProLiant ML370	U4529E	1	949	1		949
				Subtotal	388,257	32,653
Server Software						
Microsoft SQL Server 2005 Enterprise X64 Edition(per processor)	810-03134	Microsoft	23,432	2	46,864	Incl Below
Microsoft Visual C++ Standard	254-00170	Microsoft	109	1	109	Incl Below
Microsoft Windows 2003 Server, Enterprise Edition X64	P72-00274	Microsoft	2,334	1	2,334	Incl Below
Microsoft Problem Resolution Services		Microsoft	245	1		245
				Subtotal	49,307	245
Client Hardware						
HP DL360G4p X3.6GHz/2MB/1GB SCSI US Svr	376236-001	1	2,699	8	21,592	
Dual Integrated Gigabit NIC, Integrated Smart Array Controller 6i						
Intel Xeon 3.6GHz 2MB DL360G4 Processor	376242-B21	1	879	8	7,032	
36GB 15K U320 Pluggable Hard Drive	286776-B22	1	269	16	4,304	
HP CP 3Y 4H 24x7 HW Entry300 4-Hour 24 Hour x 7 Day Coverage 3 Years	162675-002	1	599	8		4,792
				Subtotal	32,928	4,792
Client Software						
Windows Server 2003, Standard Edition	P73-00295	Microsoft	719	8	5,752	Incl. Above
				Subtotal	5,752	0
User Connectivity						
HP ProCurve Switch 2824	J4903A#ABA	1	2499	1	2,499	
HP CP for HP ProCurve Networking products 3 Yr 4 hr/24x7	U2856E	1	1000	1		1,000
10 foot Cat5E Non Booted Network Patch Cables	cblc5ENB10	3	3	18	54	
10 foot Cat5E Non Booted Network Patch Cables (plus 10% spares)	cblc5ENB10	3	3	2		6
				Subtotal	2,553	1,006
Large Purchase and Net 30 discount (See Note 1)	16.0%	1			(\$67,789)	(\$6,151)
				Total	\$411,008	\$32,545
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 pricing 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.				Three-Year Cost of Ownership: USD \$443,553		
				tpmC Rating: 240,737		
				\$ / tpmC: USD \$1.85		
Pricing: 1=HP Direct 800-203-6748 2= Microsoft 3= LanAdapters.com						
Note 1 = Discount based on HP Direct guidance applies to all lines where pricing = 1						

Numerical Quantities Summary

MQTH, Computed Maximum Qualified Throughput

240,737 tpmC

Response Times (in seconds)	Average	90%	Maximum
New-Order	0.34	0.58	5.24
Payment	0.31	0.54	4.50
Order-Status	0.33	0.56	5.33
Delivery (interactive portion)	0.11	0.11	1.00
Delivery (deferred portion)	0.14	0.19	5.31
Stock-Level	0.33	0.56	2.23
Menu	0.11	0.12	1.15

Transaction Mix, in percent of total transaction

New-Order	44.91%
Payment	43.02%
Order-Status	4.03%
Delivery	4.01%
Stock-Level	4.03%

Emulation Delay (in seconds)

	Resp.Time	Menu
New-Order	0.10	0.10
Payment	0.10	0.10
Order-Status	0.10	0.10
Delivery (interactive)	0.10	0.10
Stock-Level	0.10	0.10

Keying/Think Times (in seconds)

	Min.	Average	Max.
New-Order	18.02/0.00	18.03/12.06	18.40/120.54
Payment	3.02/0.00	3.03/12.06	3.40/120.54
Order-Status	2.02/0.00	2.03/10.06	2.40/100.53
Delivery (interactive)	2.02/0.00	2.03/5.07	2.40/50.53
Stock-Level	2.02/0.00	2.03/5.07	2.40/50.53

Test Duration

Ramp-up time	48 minutes
Measurement interval	120 minutes
Transactions (all types) completed during measurement interval	66,612,080
Ramp down time	6 minutes

Checkpointing

Number of checkpoints	4
Checkpoint interval	30 minutes