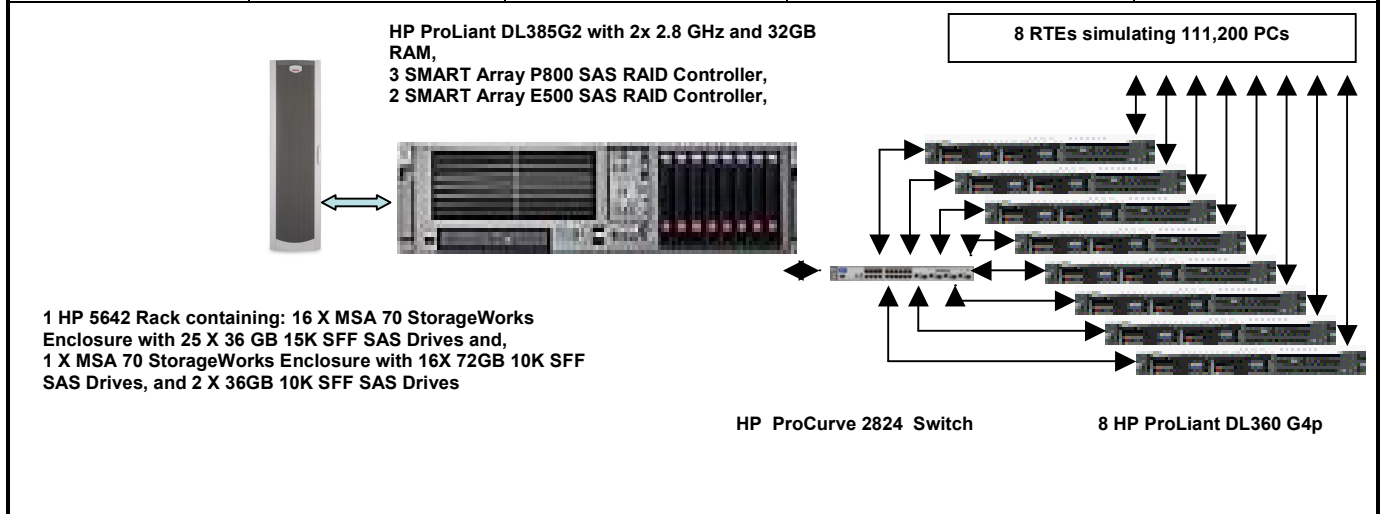


Hewlett-Packard Company	HP ProLiant DL385 G2 2.8GHz/1MB	TPC-C Rev. 5.7
	8 HP ProLiant DL360 G4p	Report Date: Nov 9, 2006

Total System Cost	TPC-C Throughput	Price/Performance	Availability Date
USD \$317,559	139,693	USD \$2.28	April 19, 2007

Database Server Processors /Cores/Threads	Database Manager	Operating System	Other Software	Number of Users
2/4/4 AMD 2220 2.8 GHz DC	Microsoft SQL Server 2005 Enterprise x64 Edition SP1	Windows Server 2003 Enterprise x64 Edition SP1	Microsoft Visual C++ Microsoft COM+	111,200



	Server		Each Client	
System Components	Quantity	Description	Quantity	Description
Processors/Cores/Threads	2/4/4	AMD 2220 2.8 GHz 1MB cache	1/1/2	3.6 GHz Intel Xeon w/ 2MB cache
Memory	32GB	(8 x 4GB) GB DDR2	1GB	1024 MB
Disk Controllers	3 2	Smart P800 Controller Smart E500 Controller	1	Integrated Smart Array 6i Controller
Disk Drives	16	72GB 10K SFF SAS Drives (log)	2	36 GB SCSI Drive
	400	36 GB 15K SFF SAS Drives (data)		
	2	36 GB 10K SFF SAS Drives (OS)		
Total Storage		14,669.20 GB		36 GB

Hewlett-Packard Company	HP ProLiant DL385G2		TPC-C Rev. 5.7			
	2.8GHz/1MB		Report Date	9-Nov-06		
Description	Part Number	Third Party	Unit Price	Qty	Extended Price	3 yr. Maint. Price
Server Hardware						
		Brand Pricing				
HP Optmn- 2.8/1000-1M DC DL385R02 (1 processor, dual nic)	438815-001	1*	3,739	1	3,739	
HP Optmn- 2.8/1000-1M DC F10 processor	438827-B21	1*	1,249	1	1,249	
Smart Array Battery Attach Kit	417836-B21	1*	36	1	36	
8GB PC2-5300 2 x 4GB Kit	408854-B21	1*	7,999	4	31,996	
HP Smart Array P800/512MB SAS Controller	381513-B21	1*	1,299	3	3,897	
HP Smart Array E500/256 SAS Controller	435129-B21	1*	600	2	1,200	
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	1	689	
UPS R1500 XR Low Voltage US	204404-001	1	866	1	866	
36GB 15Krpm SFF SAS HDD	431933-B21	1*	375	400	150,000	
36GB 15Krpm SFF SAS HDD (10% spares)	431933-B21	1*	375	40		15,000
HP 72GB 3G SAS 10K SFF HDD	375861-B21	1	329	16	5,264	
HP 72GB 3G SAS 10K SFF HDD (10%spares)	375861-B21	1	329	2		658
HP 36GB 10K SAS 2.5 Hot Plug Hard Drive	375859-B21	1	279	2	558	
HP StorageWorks MSA-70 Storage	418800-B21	1*	3,250	17	55,250	
HP StorageWorks MSA-70 Storage (10% Spares)	418800-B21	1*	3,250	2		6,500
HP 3y 4h 24x7 ProLiant DL38x HW Support	U4545E	1	949	1		949
				Subtotal	254,898	23,107
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 Srvr	376236-001	1	2,699	8	21,592	
Dual Integrated Gigabit NIC, Integrated Smart Array Controller 6i						
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	25,896	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 (plus 10% spares)	UPT-4P5E-10	3		20	62	
				Subtotal	2,561	1,000
Large Purchase and Net 30 discount (See Note 1)	16.0%	1			(\$45,337)	(\$4,663)
				Total	\$293,078	\$24,481
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 \$317,559		
				tpmC Rating: 139,693		
				\$ / tpmC: USD \$2.28		
Pricing: 1=HP Direct 800-203-6748 2= Microsoft 3= Lanshack.com						
Note 1 = Discount based on HP Direct guidance applies to all lines where pricing = 1						
* = These components are not immediately orderable. See the FDR for more information.						
Note 2 = The benchmark results were audited by Lorna Livingtree of Performance Metrics						

Numerical Quantities Summary

MQTH, Computed Maximum Qualified Throughput

139,693 tpmC

Response Times (in seconds)

	Average	90%	Maximum
New-Order	0.30	0.74	5.48
Payment	0.27	0.71	5.53
Order-Status	0.29	0.73	5.38
Delivery (interactive portion)	0.10	0.11	4.63
Delivery (deferred portion)	0.14	0.21	3.88
Stock-Level	0.29	0.73	5.44
Menu	0.10	0.11	4.84

Transaction Mix, in percent of total transaction

New-Order	44.92%
Payment	43.01%
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	18.17/120.53
Payment	3.02/0.00	3.03/12.06	3.17/120.53
Order-Status	2.02/0.00	2.03/10.07	2.16/100.53
Delivery (interactive)	2.02/0.00	2.03/5.07	2.17/50.52
Stock-Level	2.02/0.00	2.03/5.07	2.17/50.53

Test Duration

Ramp-up time	27 minutes
Measurement interval	120 minutes
Transactions (all types) completed during measurement interval	38,643,582
Ramp down time	8 minutes

Checkpointing

Number of checkpoints	4
Checkpoint interval	30 minutes