



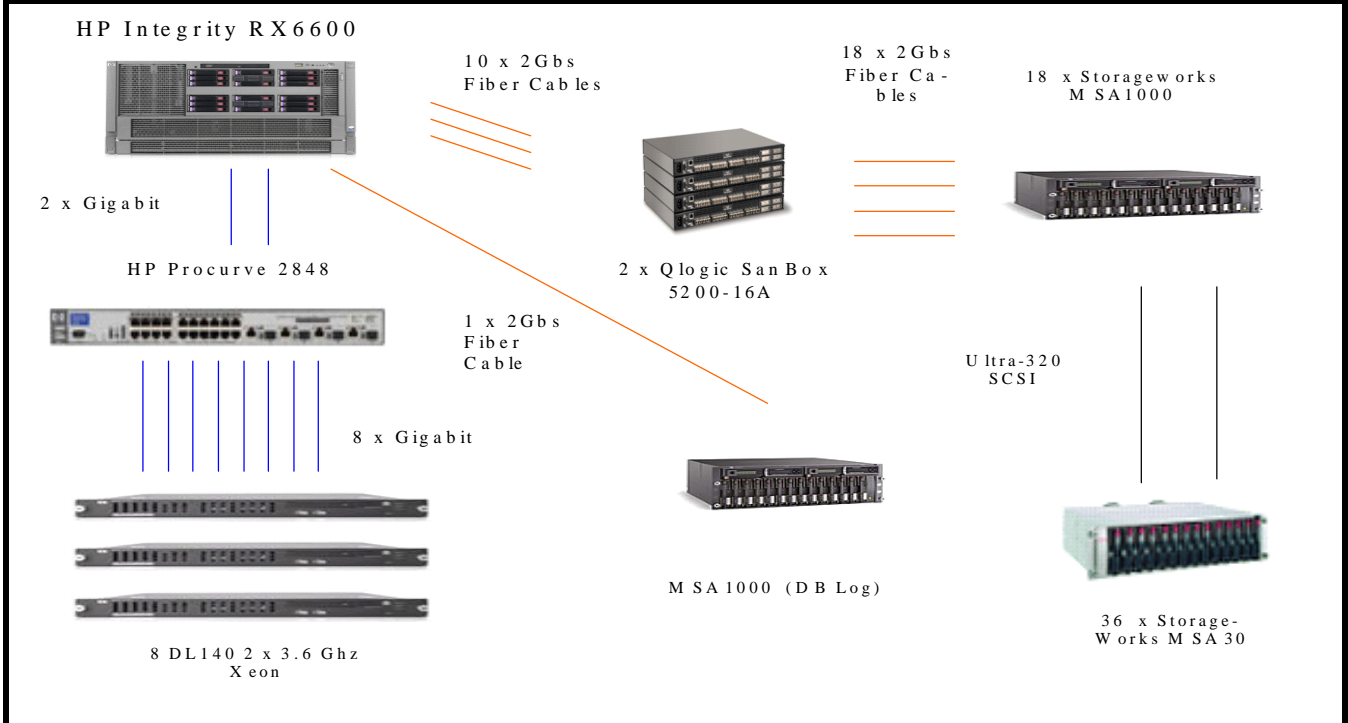
**invent**  
**Hewlett-Packard**  
**Company**

# HP Integrity rx6600


TPC-C Rev 5.7

TPC-C Pricing  
 Rev 1.1.0

<b>Total System Cost</b>	<b>TPC Throughput</b>	<b>Price/Performance</b>	<b>Report Date</b>	<b>Availability Date</b>
\$771,957 USD	344,928 tpmC	\$2.24 USD per tpmC	July 18, 2006	Dec 1, 2006
<b>Procs/Cores/Threads</b>	<b>DataBase Manager</b>	<b>Operating System</b>	<b>Other Software</b>	<b>Number of Users</b>
Srvr - 4/8/16 Dual Core Itanium 2 Processor 9050 @ 1.6GHz Client - 8 x 2/2/4 Intel Xeon @ 3.6 GHz	Microsoft SQL Server 2005 Enterprise Itanium Edition SP1	Microsoft Windows Server 2003, Enterprise Edition for Itanium-based Systems, SP1	Microsoft Visual C++ Microsoft COM+ Transaction Monitor	276,000



System Components	Server		Each Client	
	Qty	Type	Qty	Type
<b>Procs/Cores/Thrds</b>	4/8/16	Dual Core Itanium 2 Processor 9050 CPUs	2/2/4	3.6 GHz Intel Xeon
<b>Cache Memory</b>		24 MB L3 cache		512 KBYTE L2 Cache
<b>Memory</b>	12	4 x 4 Gbyte	1	1024 MB
<b>Disk Controllers</b>	5	Qlogic 2342	1	ATA
	1	Emulex 1050DC		
<b>Disk Drives</b>	756	HP 36GB 15 KRPM	1	80 Gbyte disk
	8	HP 300GB 10 KRPM U320		
	2	HP 36 GB 10 KRPM SAS		
<b>Total Storage</b>		27625.00		80 Gbyte
<b>Tape Drives</b>	1	HP TA5300		
<b>Terminals</b>	1	Console Terminal	1	Console Terminal

 <b>Hewlett Packard Company</b>		<b>HP Integrity rx6600</b>			<b>TPCC Rev 5.7 April 2006 Pricing 1.1.0</b>	
<b>July 18 2006</b>						
Description	Price Key	Part Numbr	Unit Price	Qty	Extended Price	3 Yr Maint Price
<b>HP Integrity rx6600 with (4) 1.6GHz/24MB Processor includes dual port 10/100/1000GbE adapter and 1 power supply</b>						
I/O backplane	1*	AD296A	\$0	1	\$0	
core I/O: 8-port SAS Smart Array RAID Controller Card	1*	AB036A #100	\$500	1	\$500	
192GB - 16GB DDR2 memory quad (4x4GB)	1*	AB566A	\$18,977	12	\$227,724	
48 DIMM Carrier Board	1*	AD127A	\$4,495	1	\$4,495	
36GB, 10K rpm SAS HDD	1*	AD140A	\$382	2	\$764	
Racked form factor kit	1*	AD053A	\$150	1	\$150	
3 Year Support (Hardware and Software)	1*	HA110A3	\$10,947	1		\$10,947
DVD-ROM	1*	AD142A	\$230	1	\$230	
FC-HBA 2GB, 2 Channel (LP1050)	1	AD168A	\$2,000	1	\$2,000	
Qlogic QLA-2342 Dual Port Fibre-Channel Adapter	3	QLA2342-CK	\$1,825	5	\$9,125	
Qlogic QLA-2342 Dual Port Fibre-Channel Adapter (10% spares)	3	QLA2342-CK	\$1,825	2	\$3,650	
36GB, 15krpm Ultra320 disk	1	286776-B22	\$269	756	\$203,364	
36GB, 15krpm Ultra320 disk (10% Spares)	1	286776-B22	\$269	76	\$20,444	
Storageworks MSA30 SB	1	302969-B21	\$2,829	36	\$101,844	
Storageworks MSA30 SB (10% Spares)	1	302969-B21	\$2,829	4	\$11,316	
HP Rack 5642	1	358254-B21	\$689	5	\$3,445	
UPS - HP R1500 XR Low Voltage US	1	204404-001	\$866	1	\$866	
HP 16A High Voltage Modular PDU	1	252663-B24	\$299	10	\$2,990	
Modular Storage Array 1000	1	201723-B22	\$6,995	19	\$132,905	
Modular Storage Array 1000 (10% spares)	1	201723-B22	\$6,995	2	\$13,990	
MSA1000 controller (10% spares)	1	218231-B22	\$4,290	2	\$8,580	
HP 300GB 10 KRPM U320	1	350964-B22	\$699	8	\$5,592	
HP 300GB 10 KRPM U320(10% Spares)	1	350964-B22	\$699	2	\$1,398	
5M LC to LC Cable Kit	1	221692-B22	\$77	19	\$1,463	
TA5300 Enclosure for DAT tape	1	C7508B	\$729	1	\$729	
DAT Tape	1	C7497B	\$1,049	1	\$1,049	
<b>Server Subtotal</b>					<b>\$802,458</b>	<b>\$10,947</b>
Microsoft Windows Server 2003, Enterprise Edition for Itanium-based Systems, SP1	1	T2030A	\$2,149	1	\$2,149	
Microsoft SQL Server 2005 Enterprise Itanium Edition SP1	2	810-03134	\$23,432	4	\$93,728	\$245
<b>Server Software Subtotal</b>					<b>\$95,877</b>	<b>\$245</b>
DL140 G2 3.6GHz Xeon 1GB 80GB SATA	1	383504-001	\$2,149	8	\$17,192	
2nd 3.6GHz Xeon Processor for DL140	1	378283-B21	\$999	8	\$7,992	
3 Year Support (ProLiant Hardware)	1	HA110A3	\$419	8		\$3,352
HP Mouse	1	P5304M	\$28	8	\$224	
HP Enhanced Keyboard (USB/PS2)	1	DC852A#ABA	\$25	1	\$25	
HP ProCurve 2824 port switch	1	J4903A	\$2,499	1	\$2,499	
3 Year Support (ProCurve Hardware)	1	HA110A3	\$1,041	1		\$1,041
S7540 17in CRT Monitor	1	PF997AA	\$139	1	\$139	
Aten MasterView Plus 8 Port KVM Switch w/Cables	4	CS138A+	\$199	1	\$199	
<b>Client Subtotal</b>					<b>\$28,270</b>	<b>\$4,393</b>
Microsoft Windows 2003 Server	2	P73-00295	\$719	8	\$5,752	
Microsoft Visual C++ Standard	2	254-00170	\$109	1	\$109	
Microsoft Problem Resolution	2		\$245	1		\$245
<b>Client Software Subtotal</b>					<b>\$5,861</b>	<b>\$245</b>
Qlogic SANBox 5200 16 2GB Port (w 16sfps, includes spares)	3	SB5200-16A	\$5,192	2	\$10,384	
SANbox 5200 Prime 7x24x4 Maint. Upgrade, 1-Year	5	Prime-SB5200	\$1,137	6		\$6,821
<b>Connectivity Subtotal</b>					<b>\$10,384</b>	<b>\$6,821</b>
<b>**Total Extended Price:</b>					<b>\$965,501</b>	
<b>**Total Discount:</b>					<b>-\$193,544</b>	
<b>HP's Large Configuration Discount **</b>						
<b>Price Key: 1-HP, 2-Microsoft, 3-HBACentral.com 4 - KVMs.com 5 - Softwareforless.com</b>					<b>3 year cost of ownership: \$771,957 USD</b>	
* Not immediately orderable. See Appendix E for details					tpmC: 344,928	
** A 23.17% discount was based on the overall value of the specific components from HP (Price Key 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					<b>\$/tpmC: \$2.24 USD</b>	
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 section of the TPC benchmark specification. If you find that the state prices are not available to these terms, please inform the TPC at pricing@tpc.org. Thank you						
Sales contact Vendor 1: HP Sales Development, 19111 Pruneridge Ave., Cupertino, CA 95014 (408) 447 2320 Sales contact Vendor 2: Jamie Reding (425) 703-0510 jamiere@microsoft.com Vendor 3 - HBACentral.com Vendor 4 - KVMs.com Vendor 5 - softwareforless.com						

## Numerical Quantities Summary for HP Integrity rx6600

**MQTH, Computed Maximum Qualified Throughput**

**344928 tpmC**

### Response Times (in seconds)

	90th %-ile	Maximum	Average
New-Order	0.48s	5.81s	0.30s
Payment	0.46s	3.32s	0.28s
Order-Status	0.48s	5.37s	0.30s
Delivery (interactive portion)	0.13s	2.51s	0.11s
Delivery (deferred portion)	0.13s	4.88s	0.09s
Stock-Level	0.69s	4.69s	0.46s
Menu	0.13s	3.02s	0.11s

Response time delay added for emulated components 0.1 seconds

### Transaction Mix, in percent of total transactions:

New-Order	44.95%
Payment	43.02%
Delivery	4.01%
Stock-Level	4.02%
Order-Status	4.00%

### Keying/Think Times

	Keying Time			Think Time		
	Min	Avg	Max	Min	Avg	Max
New-Order	18.00s	18.02s	18.08s	0.00s	12.06s	120.55s
Payment	3.00s	3.02s	3.08s	0.00s	12.07s	120.53s
Order-Status	3.00s	3.02s	3.08s	0.00s	10.06s	100.53s
Delivery (interactive)	3.00s	3.02s	3.08s	0.00s	5.07s	50.53s
Stock-Level	3.00s	3.02s	3.08s	0.00s	5.06s	50.53s

### Test Duration

Ramp up time	22 minutes
Measurement interval	120 minutes
Transactions during measurement interval	95773416
Ramp down time	5 minutes

### Checkpointing

Number of checkpoints in measurement interval	4
Checkpoint Interval	28.33 minutes