

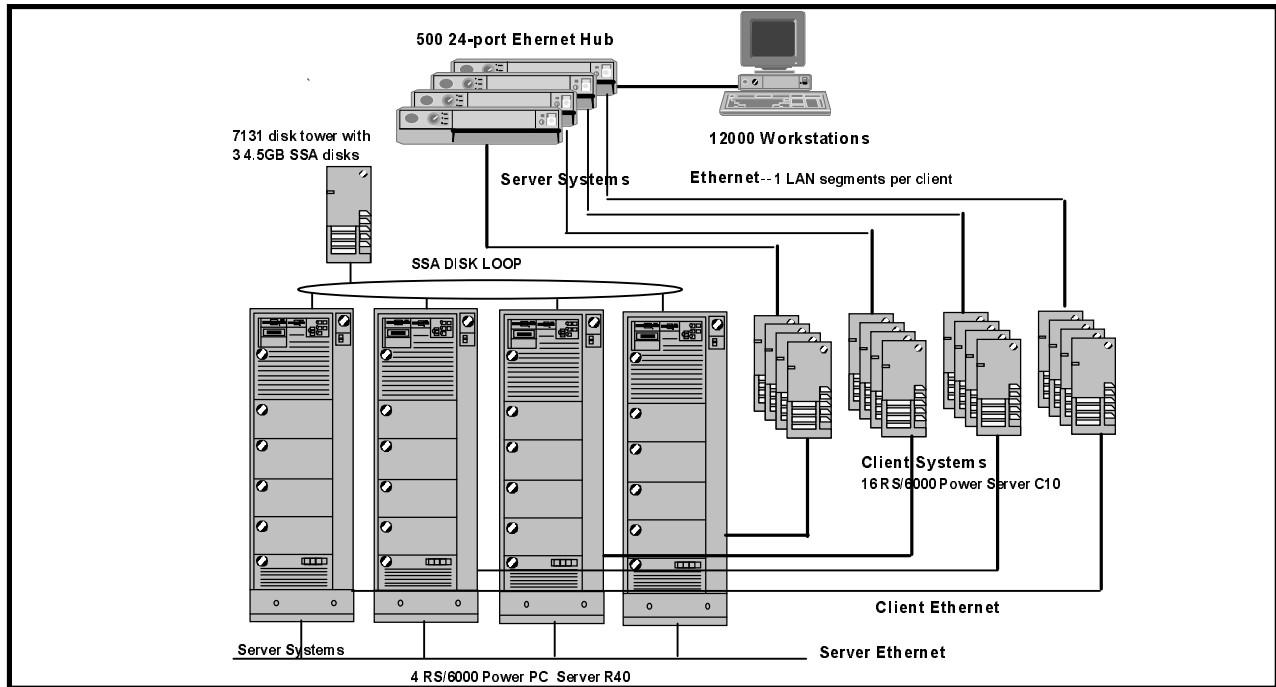


IBM RISC System/6000 Cluster
4 Power PC Server R40 Nodes c/s

TPC-C Rev. 3.2
Report Date: Dec. 10, 1996

Total System Cost	TPC-C Local Throughput	Price/Performance	Availability Date:	
\$3,270,909	14,285.87 tpmC	\$229/tpmC	now except: Oracle7 v 7.3: June 97	
Processors	Data Base Manager	Operating System	Other Software	Number of users
(8) 112 Mhz PowerPC 604	Oracle7 ver 7.3	AIX 4.1.5	Tuxedo EPT 4.2.1	12000

Priced System Configuration



<u>System Components</u>	<u>Qty</u>	<u>Client Description</u>	<u>Qty</u>	<u>Server Description</u>
Processors	16	IBM RS/6000 C10 80 MHZ PowerPC 601	4	IBM RS/6000 R40
Memory	16	256 MB	4	2048 MB Main Memory
Disk Controllers	16	Integrated SCSI	16	SSA Enhanced Adapter
Disk Drives	16	1.1 GB SCSI Disks	291	4.5 GB SSA Disks 4 2.2GB SCSI Disks
Total GB of Storage		1 GB each client		1229 GB
Terminals	16	System Consoles	4	System Console
Terminal Connectivity	500	24 port Ethernet Hub		



RISC System/6000 Cluster 4 Server Model R40 Nodes c/s

TPC-C Rev. 3.2

Report Date: Dec. 10, 1996

Description	Part Number	Third Party Brand	Pricing	Unit Price	Qty	Extended Price	5 yr. Maint Price
Server Hardware							
RS/6000 Server Model R40	7015-R40			69,000	4	276,000	132,480
Dual 604, 128mb Memory, 2.2GB Disk, SCSI2 Diff F/W Adptr, CDROM							
Dual Processor card, 1mb L2/CPU	4301			12,000	12	144,000	69,120
Select 64mb -> 512mb Memory	4148			24,960	4	99,840	0
512mb Memory Cards	4158			33,280	12	399,360	0
Ethernet Adapter	2980			722	28	20,216	0
SSA Adapters 4port	6214			1,370	16	21,920	0
System Rack w/4 R40	7015-R00			3,610	1	3,610	1,488
SSA Multi-Storage Tower w/2 - 4.5gb	7031-405			8,100	1	8,100	6,720
Add 4.5gb Hard Drive	3087			3,200	1	3,200	0
System Rack Model R00	7015-R00			3,110	3	9,330	4,464
SSA Disk Subsystem	7133-010			17,500	18	315,000	151,200
4.5 GB Disk Drive Mod 16 Sel	3416			2,500	288	720,000	0
Power/Cooling	3003			1,600	18	28,800	0
SSA Cables	5006			35	18	630	0
Subtotal						2,050,006	365,472
Server Software							
AIX 4.1.5 R40 + Support	5765-655			3,050	4	12,200	0
HACMP Concurrent Res Mgr	5765-A86			20,000	4	80,000	0
Oracle Version 7.3, SQL*Net		Oracle	1	419,739	1	419,739	335,791
Subtotal						511,939	335,791
Client Hardware							
RS/6000 Server Model C10 16mb/1gb	7009-C10			10,995	16	175,920	88,320
Select 4mb -> 32mb SIMM	4026			1,120	64	71,680	0
Add. 32mb SIMM Memory	4012			1,280	64	81,920	0
Ethernet Adapter	9980			n/c	16	0	0
Network Terminal Accelerator	2403			7,500	16	120,000	57,600
Subtotal						449,520	145,920
Client Software							
AIX 3.2.5 C10 + Support	5756-030			6,150	16	98,400	0
Async Term Srv Accel	5765-268			195	16	3,120	0
Tuxedo EPT Ver 4.2, C10 Client		BEA	2	3,500	16	56,000	42,000
Subtotal						157,520	42,000
User Connectivity							
Ultra SlimLine Hub (24port) + 10% Spa	DEH1487	ITI Networks	3	310	550	170,500	0
IBM ASCII Terminal, Keyboard	3151-360			508	17	8,636	3,264
Subtotal						179,136	3,264
Other Discounts*						(810,565)	(159,094)
Total						2,537,556	733,353

Notes:

*Dollar Volume Discount 30%, Maint 17%
 1=Oracle Corp, 2=BEA Systems, 3=Data Comm/Warehouse
 Audited by: Francois Raab, Information Paradigm

Five-Year Cost of Ownership: 3,270,909
tpmC Rating: 14,285.87
\$/tpmC: 228.96

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 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.



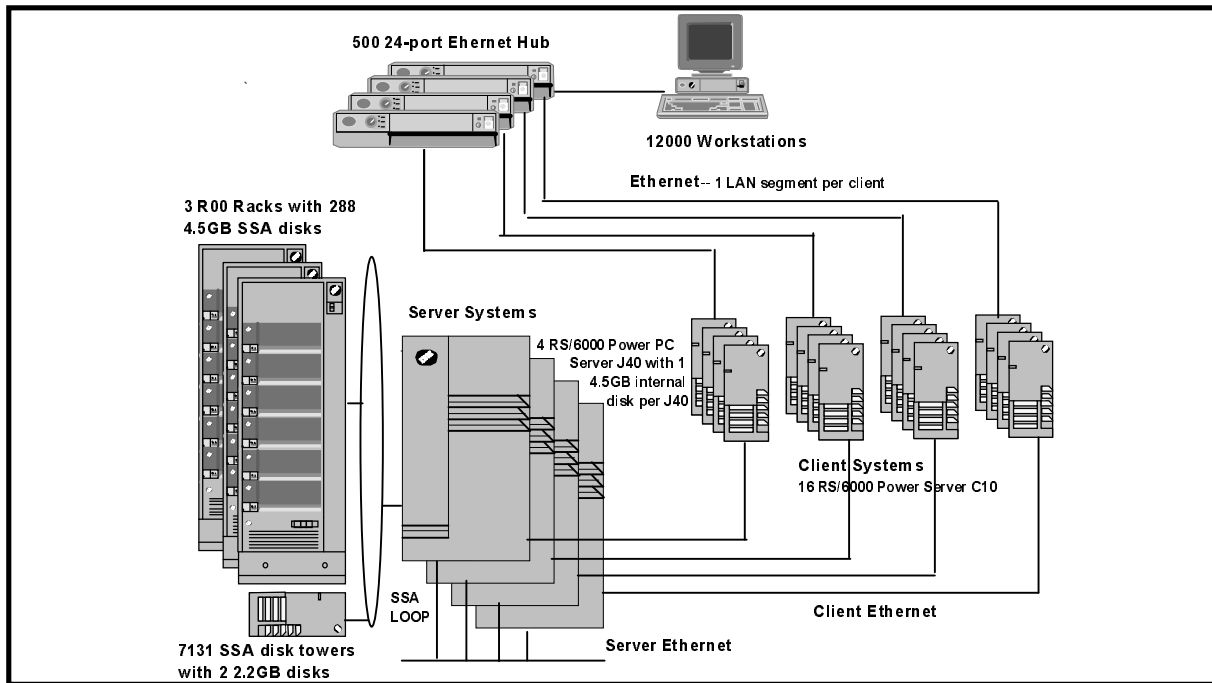
RISC System/6000 Cluster 4 Server Model J40 Nodes c/s

TPC-C Rev. 3.2

Report Date: Dec. 10, 1996

Total System Cost	TPC-C Local Throughput	Price/Performance	Availability Date:	
\$3,225,073	14,285.87 tpmC	\$226/tpmC	now except: Oracle7 v 7.3: June 97	
Processors	Data Base Manager	Operating System	Other Software	Number of users
(8) 112 Mhz PowerPC 604	Oracle7 ver. 7.3	AIX 4.1.5	Tuxedo EPT 4.2.1	12,000

Priced System Configuration



<u>System Components</u>	<u>Qty</u>	<u>Client Description</u>	<u>Qty</u>	<u>Server Description</u>
Processors	16	IBM RS/6000 C10 80 MHZ PowerPC 601	4	IBM RS/6000 J40 + Exp. Box
Memory	16	256 MB	4	2048 MB Main Memory
Disk Controllers	16	Integrated SCSI	16	SSA Enhanced Adapter
Disk Drives	16	1.1 GB SCSI Disks	288	4.5 GB SSA Disks
			2	2.2GB SSA Disks
			4	4.5 GB SCSI Disks
Total GB of Storage		1 GB each client		1229 GB
Terminals	16	System Consoles	4	System Console



RISC System / 6000 Cluster 4 Server Model J40 Nodes c/s

TPC-C Rev. 3.2

Report Date: Dec. 10, 1996

Description	Part Number	Third Party Brand	Pricing	Unit Price	Qty	Extended Price	5 yr. Maint Price
Server Hardware							
RS/6000 Server Model J40	7013-J40			54,000	4	216,000	103,680
Dual 604, 128mb Memory, 2.2GB Disk, SCSI2 Diff F/W Adptr, CDROM							
Dual Processor card, 1mb L2/CPU	4301			12,000	12	144,000	69,120
Select 64mb -> 512mb Memory	4148			24,960	4	99,840	0
512mb Memory Cards	4158			33,280	12	399,360	0
4.5gb Disk Drive Select	9134			n/c	4	0	0
Ethernet Adapter	2980			722	28	20,216	0
SSA Adapters 4port	6214			1,370	16	21,920	0
Expansion Cabinet	7013-J01			11,000	4	44,000	21,120
SSA Multi-Storage Tower w/2 - 2.2gb	7031-405			6,800	1	6,800	5,040
System Rack Model R00	7015-R00			3,110	3	9,330	4,464
SSA Disk Subsystem	7133-010			17,500	18	315,000	151,200
4.5 GB Disk Drive Mod 16 Sel	3416			2,500	288	720,000	0
Power/Cooling	3003			1,600	18	28,800	0
SSA Cables	5006			35	18	630	0
Subtotal						2,025,896	354,624
Server Software							
AIX 4.1.5 J40 + Support	5765-655			3,050	4	12,200	0
HACMP Concurrent Res Mgr	5765-A86			15,500	4	62,000	0
Oracle Version 7.3, SQL*Net		Oracle	1	414,802	1	414,802	331,842
Subtotal						489,002	331,842
Client Hardware							
RS/6000 Server Model C10 16mb/1gb	7009-C10			10,995	16	175,920	88,320
Select 4mb -> 32mb SIMM	4026			1,120	64	71,680	0
Add. 32mb SIMM Memory	4012			1,280	64	81,920	0
Ethernet Adapter	9980			n/c	16	0	0
Network Terminal Accelerator	2403			7,500	16	120,000	57,600
Subtotal						449,520	145,920
Client Software							
AIX 3.2.5 C10 + Support	5756-030			6,150	16	98,400	0
Async Term Srv Accel	5765-268			195	16	3,120	0
Tuxedo EPT Ver 4.2, C10 Client		BEA	2	3,500	16	56,000	42,000
Subtotal						157,520	42,000
User Connectivity							
Ultra SlimLine Hub (24port) + 10% Spa	DEH1487	ITI Networks	3	310	550	170,500	0
IBM ASCII Terminal, Keyboard	3151-360			508	17	8,636	3,264
Subtotal						179,136	3,264
Other Discounts*						(797,932)	(155,719)
Total						2,503,143	721,931

Notes:

*Dollar Volume Discount 30%, Maint 17%

1=Oracle Corp, 2=BEA Systems, 3=Data Comm/Warehouse

Audited by: Francois Raab, Information Paradigm

Five-Year Cost of Ownership: 3,225,073

tpmC Rating: 14,285.87

\$/tpmC: 225.75

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