



## e-@ction Enterprise Server ES7000 (16P)

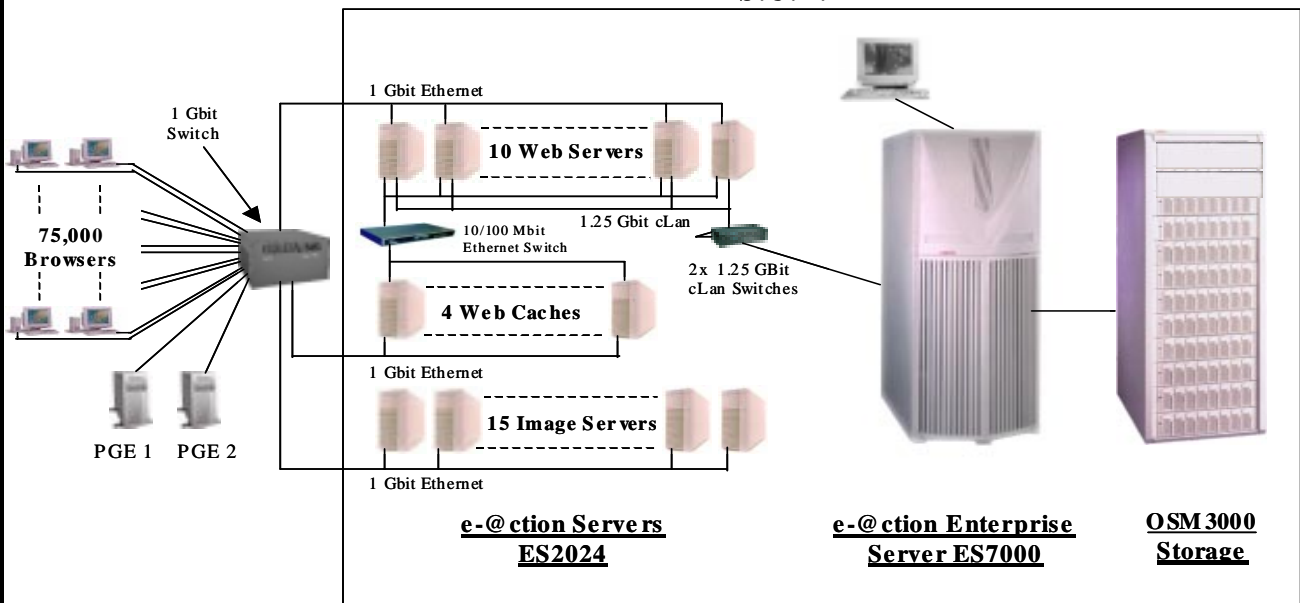
TPC-W Rev. 1.5

Report Date  
7/10/2001

Price Performance	Performance	Availability Date
<b>\$106.73</b> per WIPS@100,000	<b>10,439.6</b> WIPS@100,000	<b>July 10, 2001</b>
<b>Total Cost</b>	<b>WIPSo@100,000</b>	<b>WIPSp@100,000</b>
\$1,114,138	4,406.5	11,122.7
<b>Scale Factor</b>	<b>Number of Users</b>	<b>Number of Systems</b>
100,000 Items	75,000	30
<b>Web Server</b>	<b>Application Server</b>	<b>Image Server</b>
Microsoft IIS 5.0	Microsoft ISAPI	Microsoft IIS 5.0
<b>Database Manager</b>	<b>Load Balancer</b>	<b>Web Cache</b>
Microsoft SQL Server 2000 Enterprise Edition	Microsoft DNS	Red Hat Linux 7.1, Squid 2.2

**Other Software:** Microsoft SQL Server 2000 Full Text Search, Microsoft Visual C++ Pro. 6.0

### S.U.T.



Function	System	Num. of Systems	Operating System	Processors	Memory
Web Server, Application Server	e-@ction ES2024	10	Windows 2000 Server	2 Pentium® III 1GHz/256KB L2	1GB
Image Server, DNS (1)	e-@ction ES2024	15	Windows 2000 Server	2 Pentium® III 1GHz/256KB L2	2GB
Web Cache	e-@ction ES2024	4	Red Hat Linux 7.1	2 Pentium® III 1GHz/256KB L2	0.5GB
Database Server	e-@ction ES7000	1	Windows 2000 Datacenter Server	16 Pentium® III Xeon 900MHz/2MB L2	6 GB

UNISYS	e-@ction Enterprise Server ES7000 (16P)		TPC-W Rev. 1.5				
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Description	Part No.	Third Party Brand	Price	Unit Price	Qty.	Extended Price	3 yr.Maint. Price
<b>Web Server Hardware:</b>							
SYS: ES2024 Tower, w/ 0 Proc., 0MB Mem	ES202141-GZN		1	\$1,547	10	\$15,470	
PROC: 1x1GHz Pentium III/256KB Cache	CPU31000-256		1	\$884	20	\$17,680	
ACC: Voltage Regulator	VRM3-83		1	\$29	10	\$290	
MEM: 512 MB SDRAM PCI33ECC Memory	DIM13368-512		1	\$681	20	\$13,620	
DISK: 18GB SCSI 3.5 Internal	ES2024-18G		1	\$553	20	\$11,060	
CTRL: Ethernet, 1GB Optical	ETH100051-P64		1	\$627	10	\$6,270	
CTRL: cLAN, PCI Host Adapter & Cable	PCI10001-CXG		1	\$586	10	\$5,860	
MAINT: 3 Yr. Cmprhnsv-Gold Svc Warranty Upgrade	WI2003-CGS		1	\$1,326	10	\$13,260	\$13,260
MONITOR: 15-inch Color	EVG2100-P		1	\$221	10	\$2,210	
<b>Web Server Software:</b>							
O/S: Microsoft Windows 2000 Server	C11-00821	2	2	\$738	10	\$7,380	Inc. below
ACC: Microsoft Visual C++ Professional 6.0	048-00317	2	2	\$549	1	\$549	Inc. below
<b>Web Server Subtotal</b>						<b>\$80,389</b>	<b>\$13,260</b>
<b>Image Server Hardware:</b>							
SYS: ES2024 Tower, w/ 0 Proc., 0MB Mem	ES202141-GZN		1	\$1,547	15	\$23,205	
PROC: 1x1GHz Pentium III/256KB Cache	CPU31000-256		1	\$884	30	\$26,520	
ACC: Voltage Regulator	VRM3-83		1	\$29	15	\$435	
MEM: 512 MB SDRAM PCI33ECC Memory	DIM13368-512		1	\$681	60	\$40,860	
DISK: 18GB SCSI 3.5 Internal	ES2024-18G		1	\$553	30	\$16,590	
CTRL: Ethernet, 1GB Optical	ETH100051-P64		1	\$627	15	\$9,405	
MAINT: 3 Yr. Cmprhnsv-Gold Svc Warranty Upgrade	WI2003-CGS		1	\$1,326	15	\$19,890	\$19,890
MONITOR: 15-inch Color	EVG2100-P		1	\$221	15	\$3,315	
<b>Image Server Subtotal</b>						<b>\$131,400</b>	<b>\$19,890</b>
<b>Web Cache Server Hardware:</b>							
SYS: ES2024 Tower, w/ 0 Proc., 0MB Mem	ES202141-GZN		1	\$1,547	4	\$6,188	
PROC: 1x1GHz Pentium III/256KB Cache	CPU31000-256		1	\$884	8	\$7,072	
ACC: Voltage Regulator	VRM3-83		1	\$29	4	\$116	
MEM: 512 MB SDRAM PCI33ECC Memory	DIM13368-512		1	\$681	4	\$2,724	
DISK: 18GB SCSI 3.5 Internal	ES2024-18G		1	\$553	4	\$2,212	
CTRL: Ethernet, 1GB Optical	ETH100051-P64		1	\$627	4	\$2,508	
MAINT: 3 Yr. Cmprhnsv-Gold Svc Warranty Upgrade	WI2003-CGS		1	\$1,326	4	\$5,304	\$5,304
MONITOR: 15-inch Color	EVG2100-P		1	\$221	4	\$884	
<b>Web Cache Server Software:</b>							
O/S: Red Hat Linux 7.0 Professional	RH22000	3	3	\$179	1	\$179	
O/S: Red Hat Linux 7.0 3-Yr. Support	SER360DSX	3	3	\$4,275	4	\$17,100	\$17,100
<b>Web Cache Subtotal</b>						<b>\$21,883</b>	<b>\$22,404</b>
<b>Database Server Hardware:</b>							
SYS: ES7000, 1 Domain, 0CPU, 0MB	ES716251-GSN		1	\$90,667	1	\$90,667	
SUBPOD: 4x900MHz P-III Xeon /2MB L2, 16MB TLCache	PSP7490016-2ML		1	\$48,053	4	\$192,212	
MEM: 512MB Memory, DIMMs	RAM512-DIM		1	\$3,627	12	\$43,524	
BRD: Memory Carrier Board, 0 Mem.	MSU1000-MBD		1	\$10,880	1	\$10,880	
CTRL: RAID, PCI, 2-Ch w/ 0MB Mem	RAD76002-P64		1	\$810	3	\$2,430	
MEM: RAID 32MB Cache & Bat. BU	RAD6324-MEB		1	\$479	3	\$1,437	
CTRL: cLAN, PCI Host Adapter & Cable	PCI10001-CXG		1	\$586	1	\$586	
CTRL: 2Ch SCSI, U160, PCI	PCI7602-P64		1	\$442	1	\$442	
DISK: 18GB, 10K SCSI LVD, SCA	HDM18110-CX1		1	\$568	2	\$1,136	
I/F: PCI Module 3.3V, 4 Card	PCI3-MOD		1	\$363	2	\$726	
PWR: AC Entry Module, 3-Phase	APA1000-AC2		1	\$1,813	2	\$3,626	
COMM: 56K LAN Modem	MDM56-LAN		1	\$249	1	\$249	
MAINT: 3-Yr. Cmprhnsv-Gold Svc Wrrnty Upgrd	WIS7163-CGS		1	\$18,217	1	\$18,217	\$18,217
TAPE: Drive, 50/100GB AIT-2, SCSI LVD	PCT50000-AIT		1	\$3,573	1	\$3,573	
CBL: 12 Ft. Extension	KVM12-EXT		1	\$52	1	\$52	
MONITOR: 15-inch Color	EVG2100-P		1	\$221	1	\$221	
<b>Database Server Software:</b>							
SYS MGT: ES7000 Value Add Software	ESS700030-N		4	\$4,533	1	\$4,533	\$3,564
O/S: Microsoft Windows 2000 Datacenter, 1-16P, 5 CAL	WSD200016-L		4	\$49,867	1	\$49,867	\$39,240
O/S: Win2K Datacenter Annual Update, 1-16P	DUS200016-L		1	\$13,600	3	\$40,800	\$40,800
APP: SQL Server 2000 Entrprs Edtn, per Proc. Lensng	810-00846	2	2	\$16,541	16	\$264,656	\$6,285
<b>Database Server Storage Hardware:</b>						<b>\$670,817</b>	<b>\$108,106</b>
DISK: 18GB Drive, 15K SCSI LVD, SCA + 10% spares	OSD18308-W45		1	\$921	60	\$55,260	Spared
DISK: 36GB Drive, 10K SCSI LVD, SCA + 10% spares	OSD36209-W45		1	\$1,172	25	\$29,300	Spared
CAB: Disk, 8 SCA w/ I/F Card, 0 Disks, 3U	ESM310300-L05		4	\$2,100	10	\$21,000	\$6,480
PWR: 2nd Power Supply Upgrade, OSM	OSM3000-BPF		4	\$530	2	\$1,060	\$72
PWR: 3000 VA UPS, 3U	UPD30001-SXR		4	\$1,897	1	\$1,897	\$396
PWR: Distribution Strip, 220V	SFR9-PWR		1	\$295	2	\$590	
CBL: Power, U.S. (Domestic), L6-20P	USE1936-LC6		1	\$56	2	\$112	
CBL: SCSI 68-pin VHD Conn's, 5 meter	CBL134-5		1	\$165	6	\$990	
CBL: SCSI 68-pin VHD Conn's, 0.5 meter	CBL134-CAT		1	\$73	4	\$292	
CAB: Rackmount Kit for Disk Cages	OSM3000-RMK		1	\$131	10	\$1,310	
CAB: 36U x 19" x 34" Cabinet, Open	RM361934-OFE		1	\$810	1	\$810	
DOOR: 36U x 19", Rear	RM3619-RDR		1	\$277	1	\$277	
PNL: 36U x 34" Side Skins, L&R	RM3634-SDS		1	\$221	1	\$221	
<b>DB Storage Subtotal</b>						<b>\$113,119</b>	<b>\$6,948</b>
<b>Connectivity</b>							
SWITCH: cLAN, 8-port, 1.25Gbit	SWT50082-CXG		4	\$5,157	2	\$10,314	\$2,088
SWITCH: Ethernet, 16-Port 10/100TX Fast	ETH410-T16		4	\$884	1	\$884	\$216
CBL: Ethernet, 7m, RJ45	CBL24-7		1	\$18	12	\$216	
<b>Connectivity Subtotal</b>						<b>\$11,414</b>	<b>\$2,304</b>
<b>Total</b>						<b>\$1,029,022</b>	<b>\$172,912</b>
Comark and Unisys Pre-Pay Discounts						(\$84,266)	(\$3,530)
<b>3rd Party Brand and Pricing:</b>						<b>\$1,114,138</b>	
1 = Comark      2 = Microsoft      3 = Red Hat						<b>10,439.6</b>	
4 = Comark Product Price, Unisys Maint. Price						<b>\$106.73</b>	

Independently Audited by:

Lorna Livingtree

Performance Metrics



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7/10/2001

## Price Performance

**\$106.73** per WIPS@100,000

## Performance

**10,439.6** WIPS@100,000

## Availability Date

**July 10, 2001**

## Numerical Quantities Summary

### WIPS Interaction Summary

Interaction	Mix	Count	90% Response
Home	16.00%	3005820	0.16
Shopping Cart	11.59%	2177406	0.14
Customer Registration.	3.00%	563245	0.05
Buy Request	2.59%	486423	0.36
Buy Confirm	1.20%	224675	2.38
Order Inquiry	0.75%	140930	0.33
Order Display	0.66%	123887	0.16
Search Request	20.01%	3759660	0.13
Search Results	17.01%	3197328	0.36
New Products	5.00%	939981	0.30
Best Sellers	4.99%	938596	0.26
Product Detail	17.02%	3198200	0.09
Admin. Request	0.10%	18577	0.09
Admin. Confirm	0.09%	16729	0.47

### Measurement Intervals Summary

	Shopping	Browsing	Ordering
Ramp-up time (min.)	84.4	81.2	32.1
Length of Measurement Interval (min.):	30	30	30
Average Think Time (sec.)	7.05	7.04	7.04
Average User Session duration (min.):	14.7	14.7	14.6
Number of Users	75,000	80,700	32,040

### Overload Run

Maximum Think Time	90% WIRT for Home	Failure Rate	WIPS
34.0	7.2	0.0072%	11,056.2