



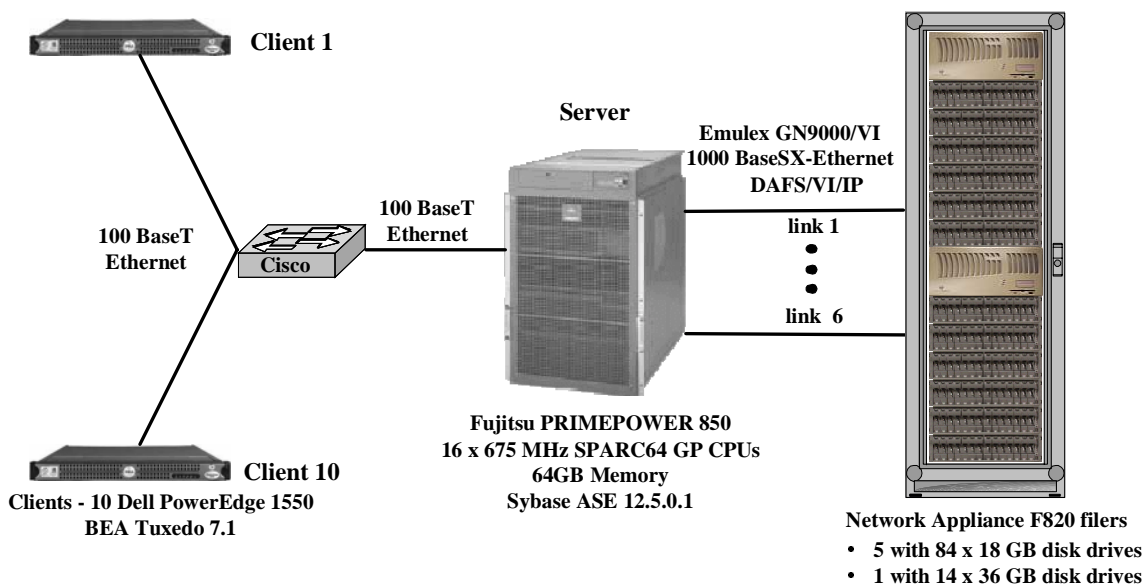
# Fujitsu PRIMEPOWER 850

TPC-C  
Revision 5

Report Date:  
March 12, 2002

Total System Cost	TPC Throughput	Price/Performance		Availability Date
<b>\$1,508,712</b>	<b>112,286.46</b>	<b>\$13.44</b>		<b>8/31/02</b>
Processors	Database Manager	Operating System	Other Software	Number of Users
16 x 675 MHz SPARC64 GP CPUs	Sybase Adaptive Server Enterprise v12.5.0.1	Solaris 8	BEA Tuxedo 7.1	90,000

## Priced configuration



System Components	Server		Each Client	
	Qty	Type	Qty	Type
Processors	16	675 MHz SPARC64 GP	2	1 GHz Pentium III
Cache memory	2x128K FLC, 8MB SLC per CPU		256 K per CPU	
Memory	64 GB		1 GB	
Disk controllers	1	Ultra SCSI	1	Ultra II SCSI
IP Storage HBA	6	Emulex GN9000/VI HBA		
Disk drives	5 with 84 x 18 GB 1 with 14 x 36 GB		Network Appliance F820	
Internal drive	2	36 GB Ultra III SCSI	1	18 GB SCSI
Total storage	8,136 GB		18 GB	
Tape drives	1	CD-ROM	1	CD-ROM
Terminals	None		None	



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Description	Part Number	Brand	Price Key	Unit Price	Qty	Price	3 Year Maintenance
<b>Database Server Hardware</b>							
Fujitsu Technology Solutions PRIMEPOWER 850 includes:	PW0V0AR1U	Fujitsu	2	\$180,000	1	\$180,000	\$92,160
675 MHz SPARC64 GP CPU	PW0V1A11U	Fujitsu	2	Bundled	4	Bundled	Bundled
System Board for Single Power Feed	PW0V7SB11U	Fujitsu	2	\$37,500	1	\$37,500	Bundled
675 MHz SPARC64 GP CPU	PW0V1A11U	Fujitsu	2	\$17,500	12	\$210,000	Bundled
4 GB Additional Memory	PW0R2M31U	Fujitsu	2	\$3,600	16	\$57,600	Bundled
Quad FastEthernet Card	X1034A-U	Fujitsu	2	\$1,795	1	\$1,795	Bundled
36 GB Hard Disk Drive	PW0R3D21U	Fujitsu	2	\$1,600	2	\$3,200	Bundled
Expansion Rack	PW-R3D21U	Fujitsu	2	\$2,600	1	\$2,600	Bundled
Outlet for 200 VAC	GP7N7RK94U	Fujitsu	2	\$1,850	2	\$3,700	Bundled
Power Conversion Option	PW0R7VC1U	Fujitsu	2	\$185	2	\$370	Bundled
PCIBOX	PW0R7BE1U	Fujitsu	2	\$14,500	2	\$29,000	Bundled
40 foot MTRJ to MTRJ Multimode Duplex Blue Fiber Jumper	FGRJ-4848-06-40	Compu-Link	6	\$45	6	\$270	N/A
<b>Subtotal</b>						<b>\$526,035</b>	<b>\$92,160</b>
<b>Database Server Software</b>							
Sybase ASE 12.5.01 for Solaris/SPARC		Sybase	3	\$295,000	1	\$295,000	\$194,700
Solaris8 for SPARC	B23PLX0H0H	Fujitsu	2	\$100	1	\$100	Bundled
DDA/Software kit for Solaris/SPARC	SW-SPARC-DAFS	NetApp	1	\$3,000	1	\$3,000	Bundled
<b>Subtotal</b>						<b>\$298,100</b>	<b>\$194,700</b>
<b>Network Appliance Storage</b>							
DAFS Database Bundle w/ 4TB, includes:	BUN-DAFS-4TB	NetApp	1	\$240,000	2	\$480,000	Bundled
F820 Filer	F820-BASE-1GB	NetApp	1	Bundled	6	Bundled	Bundled
Copper FC-AL Adapter with Cable	X2040B-C	Qlogic	1	Bundled	16	Bundled	Bundled
DS14 w/ 18 GB Spindles & Cu LRUs		NetApp	1	Bundled	30	Bundled	Bundled
DS14 w/ 36 GB Spindles & Cu LRUs		NetApp	1	Bundled	1	Bundled	Bundled
Emulex GN9000/V1 HBA	X1620	Emulex	1	Bundled	12	Bundled	Bundled
NFS Software F820	SW-F820-NFS	NetApp	1	Bundled	6	Bundled	Bundled
DAFS Software F820	SW-F820-DAFS	NetApp	1	Bundled	6	Bundled	Bundled
Smart UPS 1400 2U RM Powerchute	SU1400RM2U	APC	7	\$705	1	\$705	N/A
<b>Subtotal</b>						<b>\$480,705</b>	<b>\$0</b>
<b>Client Hardware</b>							
PowerEdge 1550, includes:	220-9993	Dell	4	\$2,512	10	\$25,116	Bundled
1 GHz Pentium III	311-5512	Dell	4	Bundled	20	Bundled	Bundled
1 GB SDRAM, 133 MHz (2 512 MB DIMMs)	311-0855	Dell	4	Bundled	10	Bundled	Bundled
18GB,10000RPM,U160,1 IN SCSI,Hard Drive	340-2468	Dell	4	Bundled	10	Bundled	Bundled
24X IDE Internal CD-ROM	3130317	Dell	4	Bundled	10	Bundled	Bundled
Floppy Disk Drive	340-2474	Dell	4	Bundled	10	Bundled	Bundled
<b>Subtotal</b>						<b>\$25,116</b>	<b>\$0</b>



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Description	Part Number	Brand	Price Key	Unit Price	Qty	Price	3 Year Maintenance
<b>Client Software</b>							
RedHat Linux 6.2		RedHat	4	Free	10	Free	Bundled (Footnote 1)
Sybase Client Software/ASE 12.5.0.1		Sybase	3	Free	10	Free	\$8,700
Tuxedo 7.1. for RedHat 6.2	TUX-CFS	BEA	5	\$2,850	10	\$28,500	\$20,700
<b>Subtotal</b>						<b>\$28,500</b>	<b>\$29,400</b>
<b>Client Connectivity</b>							
3500 Ethernet switch, includes:	WS-C3524-XL-EN	Cisco	8	\$1,977	2	\$3,953	\$2,873
24 10/100 ports		Cisco	8	Bundled	2	Bundled	Bundled
15 foot RJ45 to RJ45 Blue with Black Boots	T3131-BQ506-BA-40	Compu-Link	6	\$4	11	\$44	N/A
<b>Subtotal</b>						<b>\$3,997</b>	<b>\$2,873</b>
<b>Discount on Fujitsu Technology Solutions Hardware (Footnote 2)</b>						<b>-\$157,760</b>	<b>-\$15,114</b>
<b>Total</b>						<b>\$1,204,694</b>	<b>\$304,019</b>

**Pricing:**

1. Network Appliance, Inc.
2. Fujitsu Technology Solutions
3. Sybase
4. Dell
5. BEA Systems
6. Anixter
7. Alphanumeric Systems, Inc.
8. Cisco Systems, Inc.

<b>Three Year Cost of Ownership:</b>	<b>\$1,508,712</b>
<b>tpmC Rating:</b>	<b>112,286.46</b>
<b>\$/ tpmC:</b>	<b>\$13.44</b>

Prices used in TPC benchmarks reflect 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.

Footnote 1: Redhat Linux support is bundled with Dell support on PowerEdge 1550.

Footnote 2: Discount level on Fujitsu Technology Solutions hardware is on equipment as configured.

## Numerical quantities summary Fujitsu PRIMEPOWER 850

<b>MQTH, Computed Maximum Qualified Throughput</b>		<b>112,286 tpmC</b>				
<b>Response Times (in seconds)</b>		<b>90th</b>		<b>Average</b>		<b>Maximum</b>
Menu		0.00		0.00		0.01
New order		0.55		0.29		13.31
Payment		0.48		0.23		10.13
Order-status		0.58		0.32		12.14
Delivery (interactive)		0.00		0.00		0.01
Delivery (deferred)		0.56		0.42		5.64
Stock level		0.36		0.17		5.04
<b>Transaction Mix, in percent of total transactions</b>						<b>Percentage</b>
New order						44.67
Payment						43.02
Order status						4.09
Delivery (deferred)						4.11
Stock level						4.11
<b>Keying/Think Times</b>						
	<b>Keying Time</b>			<b>Think Time</b>		
	Minimum	Average	Maximum	Minimum	Average	Maximum
New order	18.01	18.01	18.02	0.00	12.28	119.98
Payment	3.01	3.01	3.02	0.00	12.28	120.00
Order Status	2.01	2.01	2.01	0.00	10.29	99.95
Delivery	2.01	2.01	2.02	0.00	5.29	49.98
Stock level	2.01	2.01	2.01	0.00	5.30	49.85
<b>Test Duration</b>						
Rampup						60 minutes
Measurement						120 minutes
Rampdown						3 minutes
Transactions during measurement						30,164,025
<b>Checkpoints</b>						
Number of checkpoints in measurement interval						4
Checkpoint interval						30 minutes