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PRIMEQUEST 540 Server

The PRIMEQUEST™ 540 server is your answer to mission-critical capability in the IA arena. With world-leading high availability "System Mirror" hardware technology, Fujitsu supports business-critical environments for deploying Windows and Linux applications in your data center. Built within the Fujitsu TRIOLE™* IT optimization strategy of business continuity, agility, and efficiency, PRIMEQUEST is the ideal solution for hosting Microsoft Windows and Red Hat or SUSE Linux 64-bit operations.

The demand for mission-critical IT services is increasing every day. Business requirements dictate that application services (and the IT infrastructure that supports them) are available all the time, to everyone, everywhere.

However, these availability demands struggle against increasingly rigid cost controls, despite the ever growing desire for rapid business development and new services.

These conflicting demands are best met by the Fujitsu PRIMEQUEST 540 server, where robust mission-critical hardware supports the flexible and cost-effective Microsoft Windows and Red Hat/SUSE Linux operating systems, providing an ideal blend of availability, flexibility, and scalability with reduced costs of ownership and operation.

Reliability/Stability/Availability

The Fujitsu PRIMEQUEST 540 server "System Mirror" offers no single point of failure in the crossbars and memory, providing fault immunity for hosted application services. All main components are hot-swappable, and component replacement can be performed without an application halt. Robust hardware isolation of partitions and I/O connections ensure that changes are fully contained within each partition and do not effect other processes.

Flexibility/Scalability

PRIMEQUEST 540 servers allow a combination of scale-up and scale out workloads in the same system frame with multiple system boards and Flexible I/O resources. With up to 16 Intel® dual-core Itanium® 2 sockets hosting 32 processor cores, the PRIMEQUEST 540 server will support your largest applications. The eight partitions and separation of CPU, memory, and I/O, let you independently scale resources for multiple applications in a consolidated environment.
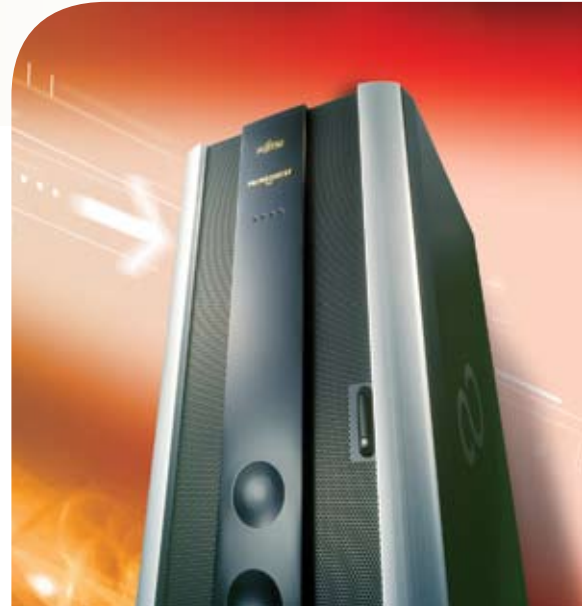
Asset Protection/Consolidation/Manageability

The PRIMEQUEST server family is closely aligned with the Intel Itanium Processor Family (IPF) family, adding new functionality and performance as the technology advances. The PRIMEQUEST 540 server is the Itanium 2 extension of the award-winning* PRIMEQUEST 480 server. On the software side, the support of Microsoft Windows and the enterprise Linux distributions from Red Hat and SUSE can maximize the life of your applications. With integrated redundant management processors, your complex consolidated server workload operations and administration are greatly simplified.

Fujitsu is committed to providing its customers with products, solutions and services that will further optimize their IT infrastructure and improve their business agility. Its TRIOLE strategy is the aggregate of three core principles:

- Business continuity (reliability / stability / availability)
- Business agility (flexibility / scalability)
- Business efficiency (asset protection / consolidation / manageability)

Fujitsu has applied these principles to design and deliver the PRIMEQUEST 540 server— providing the highest level of availability and performance, now and into the future.

Main features of PRIMEQUEST

- Processors: Up to 32 (on 16 Intel Itanium 2 dual-core Sockets)

- Crossbar performance: 17.3 GB/sec bi-directional per System Board, 68.2 GB/sec sustained system bandwidth.

- Memory: Maximum of 512 GB

- Partitions: Up to 8

- Flexible I/O (FIO): Balanced system configuration to optimize application performance

* The PRIMEQUEST 480 server, configured with the Intel Itanium 2 "Madison" processor, won eWeek Magazine Server of the Year award, June 19, 2006. See https://www.excellenceawardsonline.com for more information.

PRIMEQUEST 540 Server

Type		Floor-Stand
CPU	Processor	Intel® Itanium®2 x 16 (dual core)
	Clock speed	1.6 GHz (24 MB L3 Cache)
System	Interconnect	Point-to-point crossbar; Data transfer rate Sustained 68.2 GB/s
	System Board	Max. 4
	Main Memory	Max. 512 GB (4 GB x 128)
	Hard Disk Drives[1]	Max. 2.35 TB (16 x 147 GB Embedded)
Expansion slots[1]		Max. 64 (PCI-X); Base Cabinet:16; Extended I/O Cabinet[4]
Integrated I/O Interfaces	1000Base-T	Max. 16 (GSWB required)
	100Base-Tx	6
	External SCSI port	Max. 8
	Video (Analog RGB Dsub 15pin)	1[3]
	Serial (Dsub 9pin)	Max. 4[2]
	USB 1.1 (KB, Mouse)	4[3]
	USB 2.0	Max. 8[2]
	UPS (D-Sub 9pin)	2
	DVD-ROM	1[3]
High reliability	Redundancy	Disk (soft mirror), Power supply unit, Fan, Server management processor (MMB), Crossbar, Gigabit Switch (GSWB)
	Hot swap	System board, PCI card, Disk, Power supply unit, Server management processor (MMB), IOU, Gigabit Switch (GSWB), Operation panel, KVMU
	Partitions	Max. 8
Installation details	Dimensions & Weight[4]	Base Chassis: Width x Depth x Height: 740 x 1,100 x 1800 mm (29.1 x 43.3 x 70.9 inches); Weights: Max. 600kg (1,320 lbs.)
	Power type	AC
	Power Requirements	Voltage: AC200-240V +/-10% Phase mode: Single Phase
	Frequency	50/60 Hz +2%,-4%
Other	OS	Red Hat Enterprise Linux AS v.4; Novell SUSE Linux Enterprise Server 9; Microsoft Windows Server 2003, Enterprise Edition for Itanium-Based Systems; Microsoft Windows Server 2003, Datacenter Edition for Itanium-Based Systems
	Other functions	Calendar function (year-month-day-hour-minute-second, Battery backup function), Automatic Power Control function (Set Power-on, Power-off by day, hour & minute)
	Note1)	Total number in base cabinets and optional chassis
	Note2)	Required to be installed in each partition
	Note3)	Shared by all partitions
	Note4)	Base Cabinet only (not including PCI_Box of Extended I/O Cabinet)

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