FUJITSU

GP7000F

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Model 2000

Model 2000 is the latest addition to Fujitsu's growing family of Solaris based Unix servers. Focussed on the Server Consolidation, Data Warehousing and ASP markets it is also eminently suitable for the requirements of large Corporate and Scientific application processing. Model 2000 is currently scalable to 64 processors in SMP (Symmetrical Multi-Processing) configuration.

The 64-bit Unix operating system, Solaris 7, has been chosen to provide the widest possible choice of world-class software and business applications together with the operational robustness necessary for mission critical systems.

Add to this Fujitsu's RAS(Reliability, Availability, Serviceability) strategy for maximum up time and service life and you are ensured of the lowest possible total cost of ownership.

GP7000F Model 2000 uses Fujitsu's own SPARC64 GP Processors together with other leading technologies such as the "world's best" cross bar switching to ensure maximum scalability and system resource utilization. The power of the SMP configuration can be dynamically reallocated allowing multiple applications to obtain the resources they need when they need it. This all means Model 2000 is the ideal solution for systems consolidation and processor intensive applications.

Leading performance

## ☐ "SPARC64 GP", high performance and reliability

"SPARC64 GP" as used in the GP7000F series is the latest 64-bit RISC processor and conforms completely to SPARC International's V9 architecture. It features high speeded processing, very large capacity cache, parallel instruction processing through 'Out-of-Order' operation and a highly accurate instruction branch prediction function. All of these ensure excellent performance in either scientific or business transaction environments. Importantly SPARC64 GP has ECC (Error Checking & Correction) in more places than comparable SPARC processors. This ensures you receive higher reliability through significantly reduced processor instruction failure rates.

☐ Scalable Memory access and performance

Whether 1 or 64 processors, the Fujitsu design provides ultra fast processor to memory performance whatever your required configuration.

☐ High performance cross-bar switch

This Fujitsu developed technology provides you with the highest available performance and bandwidth in a commercially available system bus(40.96GB/s). The power of the cross-bar switch also provides the best in balanced and smooth scalability up to your chosen maximum number of processors.

High-performance system bus
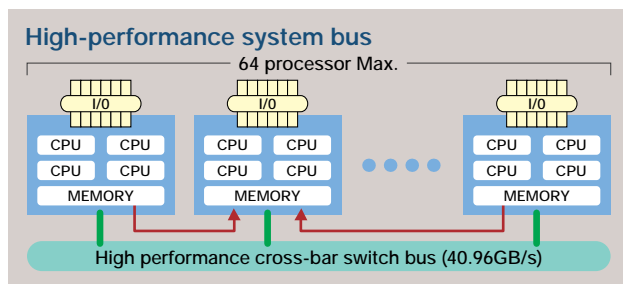
Cluster system further enhances Model 2000 availability

Model 2000 makes us of Fujitsu's "SynfinityCluster" infrastructure software to allow you to build a sophisticated cluster system that will further improve the availability of your system services and data.

— High availability

All hardware and software can be multiplexed to minimise your system downtime from unexpected events, accidents, component failures and periodic maintenance. Fast service resumption is achieved by inter-nodal failure notification, and hot stand-by techniques derived from Mainframe technology. Model 2000 supports various methods including inter-standby and N-to-one standby.

— High performance/Scalability

The cluster structure of GP7000F will allow you to grow your system, over time, to a maximum of 16 nodes and 1024 processors. This superior level of scalability makes these systems ideally suited for applications requiring the very highest processing performance.

High reliability for mission critical systems

☐ System Control Facility (SCF)

Your Model 2000 comes with a System Control Facility with its own independent processor. This provides excellent system monitoring and service control. Being independent of the normal system status, processor failures and system hang-ups, it provides you with valuable information continuously. Immediate detection and accurate notification of failures, potential failures and system control status are viewable either at the server or via a remote monitoring service.

☐ Highly reliable and available hardware

The main system components of the Model 2000 (disks, power units and fans) are redundant and hot swappable. Plus the processors, memory, and I/O bus can be easily reconfigured. This ensures that you achieve the highest possible system reliability and availability.
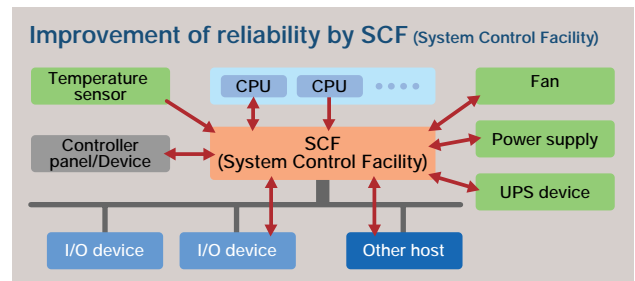
Server consolidation by partitioning

A partition function is provided which allows you to divide the system into independent single or multiple processor application segments. Each partition is physically independent and allows systems, which you have previously distributed across multiple servers to be integrated onto a single Model 2000. Such consolidation brings better systems management, higher levels of performance, greater system stability, reliability and availability and improved support productivity. Best of all a large reduction in your overall total cost of ownership(TCO) will be possible.
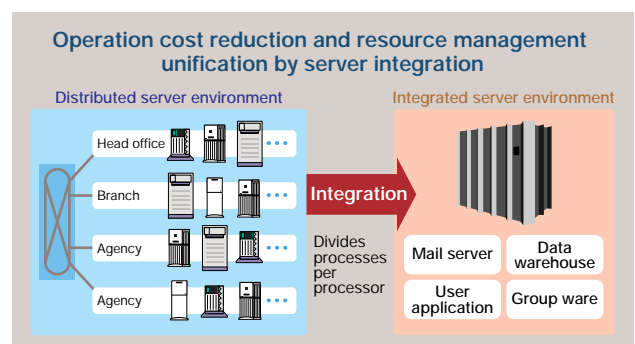
GP7000F Model 2000 Specifications

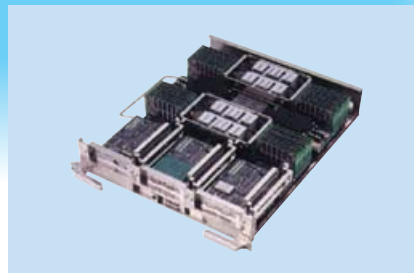| Model name		Model 2000
Processor	Type	SPARC64 GP
	Clock rate*1	300MHz
	Quantity	8 ～ 64 processors
Cache (per processor)		64KB (Instruction)+ 64KB (Data), 8MB (Common to instruction/data)
Memory	Minimum	4GB
	Unit for addition	512MB
	Maximum	64GB
	Error correction	ECC
Disk capacity	Minimum	18.2GB
	Unit for addition	9.1GB/18.2GB
	Internal disk	Up To 1TB
I/O slot		PCI (66/33MHz): 6 ～ 48 slots
		PCI (33MHz): 6 ～ 48 slots
Redundancy		Disk (mirrored or by the disk array device), Power Supply, Fan, System Control Facility
Hot-Swappable items		Disk, Power Supply, Fan, System Control Facility
Other functions		Calendar function, Automatic power control function
UPS		External (optional)
Profile & Weight	Outer dimensions W×D×H (mm)	～32 processors: 1044×1300×1800 *2, ～ 64 processors: 2172×1300×1800 *2
	Weight (Kg)	～32 processors: 800Kg *2, ～64 processors: 1660Kg *2
Power Consumption		～32 processors: 9000W *2, ～64 processors: 18000W *2

*1: Actual clock rate is 296MHz.
*2: Approximation

When ～32 processors are mounted

Inside of Model 2000

When ～64 processors are mounted

System board

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