

Sun Fire™ V490 Server



Exceptional Throughput and Relentless Availability in a High-Density Footprint at an Entry-Level Server Price

Key feature highlights

- 64-bit Chip Multithreading (CMT) UltraSPARC® IV technology, with over 2x the throughput of previous generations
- Scales up to 4 x 1.35-GHz UltraSPARC IV CPUs with 16 MB L2 cache per processor
- Up to 8 simultaneous compute threads with up to 32 GB memory
- Solaris™ 8, Solaris 9, and Solaris 10 Operating System
- Robust capabilities in the Solaris 10 OS such as Predictive Self-Healing to increase reliability, Solaris Containers for increased utilization, and dTrace to optimize application performance
- Industry leading price/performance and benchmarks
- 2 FC-AL disk drives, multipathing-ready
- 9.6-GB/second Sun™ Fireplane interconnect
- N+1 hot-swap power supplies/ hot-pluggable disks
- Sun Systems Controller for remote system administration
- Automatic System Recovery to maximize uptime
- 6 PCI slots help ensure a highly expandable system
- 5-RU, rack-optimized enclosure
- Three-year warranty as standard

UltraSPARC® IV Power and Rock-Solid Solaris™ Reliability in a Rack-Optimized Enclosure

More users and services are driving the ever-expanding demands placed on today's IT infrastructure and systems. To meet this challenge, Sun delivers Chip Multithreading processor technology with the new UltraSPARC IV 64-bit processor and the Solaris Operating System, the number-one UNIX® environment. Providing over twice the throughput of previous UltraSPARC architectures in the same server footprint enables organizations to deliver more applications, services, and value at lower costs and using less data center space.

The Sun Fire™ V490 server is designed to deliver compute density with enterprise-class throughput and RAS features at an entry-level server price. With up to four UltraSPARC IV CMT processors executing eight concurrent threads and up to 32 GB of memory in a dense, rack-optimized, 5-RU, 24-in.-deep enclosure, the Sun Fire V490 delivers extreme levels of throughput for your most demanding departmental and enterprise applications. Key workloads include Application Serving, Business Processing, Database Services, eCommerce Infrastructure, and compute-intensive Engineering and Scientific applications. What's more, there is no disruption to your existing software model, so your Solaris applications just run, providing you with unparalleled levels of investment protection on the industry's most robust, secure, and popular UNIX operating system.



Sun Fire V490 Specifications

Processor Options

Processor	Up to four 1.05/1.35 GHz UltraSPARC IV
Architecture	Superscalar SPARC® V9
Processor modules	One or two dual-processor/memory modules
Cache (L1)	64-KB data and 32-KB instruction per pipeline
Secondary (L2)	16 MB external (8 MB per pipeline)

Main Memory

A system maximum of 32 GB when configured with four processors

Standard/Integrated Interfaces

Network	Two 10/100/1000-Mbps Ethernet
I/O	FC-AL disk controller
Serial	RJ45 serial port
Expansion capability	Six PCI slots compliant with PCI specification Revision 2.1 (2 @ 66 MHz, 64 bits wide, 3.3 volts; 4 @ 33 MHz, 64 bits wide, 5 volts)
USB	Two (compliant with USB Revision 1.0)

Mass Storage and Media

Host adapters	Internal IDE (supports DVD drive)
Internal disk	Up to 2 3.5" x 1.0" 10KRPM FC-AL disks (73-GB or 146-GB capacity), providing a maximum total capacity of 292 GB
External disk	Sun StorEdge™ A1000 Sun StorEdge A5100/A5200 Sun StorEdge D1000 Sun StorEdge D2 Sun StorEdge Multipacks (SCSI and FC) Sun StorEdge S1 Sun StorEdge T3 (for Enterprise and Workgroup) Sun StorEdge Unipack Sun StorEdge 3120 Sun StorEdge 3310 SCSI RAID/ JBOD Sun StorEdge 3510 FC RAID/ JBOD Sun StorEdge 3511 Sun StorEdge 3910/3960 Sun StorEdge 6320 Sun StorEdge 6910/6920/6960 series Sun StorEdge 9910/9960/9970/9980

External tape	Sun StorEdge DDS-4 unipack tape drive Sun StorEdge DAT 72 desktop tape drive Sun StorEdge LTO-2 desktop tape drive Sun StorEdge SDLT 320 desktop tape drive Sun StorEdge L7 tape autoloader Sun StorEdge L8 tape autoloader Sun StorEdge L20 tape library Sun StorEdge L25 tape library Sun StorEdge L40 tape library Sun StorEdge L60 tape library Sun StorEdge L100 tape library Sun StorEdge L180 tape library Sun StorEdge L700 tape library Sun StorEdge L5500 tape library Sun StorEdge L6000 tape library Sun StorEdge L8500 tape library
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Software

Operating system	Solaris 8 02/04, Solaris 9 04/04, and Solaris 10
Enterprise infrastructure software	Sun Java™ Enterprise System

Power Supplies

One required, two for redundancy fitted as standard, each with independent power cord. Total system power rated for 1600W.

Maximum AC input	1847 W per power supply
Maximum DC output	1448 W per power supply

Environment

AC power	200–240 VAC, 47–63 Hz, 2078 VA
Operating temperature	5° C to 35° C (41° F to 95° F), 20% to 80% relative humidity, noncondensing, 27° C max. wet bulb
Nonoperating temperature	-20° C to 60° C (-4° F to 140° F), 95% relative humidity, noncondensing

Regulations (meets or exceeds the following requirements)

Safety	UL/CSA-60950-1, EN60950-1, IEC60950 CB Scheme with all country deviations, IEC825-1, 2, and CFR21 part 1040
Ergonomics	EK1-ITB-2000
RFI/EMC	EN55022/CISPR22 Class A, FCC CFR47 Part 15 Class A, EN61000-3-2, EN61000-3-3
Immunity	EN55024/CISPR24
Telecommunications	EN300-386
X-ray (for monitors)	DHHS 21 Subchapter J; PTB German X-ray Decree
Regulatory markings	CE, FCC, ICES-003, C-tick, VCCI, GOST-R, BSMI, MIC, UL/cUL, TUV-GS, TUV/S-mark

Key RAS Features

- Hot-pluggable disk drives
- Redundant, hot-swappable power supplies
- Environmental monitoring and fault detection
- Automatic System Recovery (ASR) capabilities
- Remote Lights Out Management capability
- Dual-loop enabled FC-AL subsystem
- Support for disk and network multipathing with automatic failover capability
- Error correction and parity checking for improved data integrity

Upgrades

The Sun Upgrade Advantage Program (UAP) offers trade-in value for qualified Sun and competitive servers toward the purchase of replacement Sun Fire V490 server(s). Whether upgrading one system or consolidating many systems to one, Sun UAP offers the flexibility to trade in and receive credit toward the new Sun system purchased. Upgrades are also available for Sun Fire server system components, including CPU/memory boards and I/O.

Dimensions and Weight

Height	222 mm (8.75 in.)
Width	446 mm (17.5 in.)
Depth	610 mm (24.0 in.)
Weight	35.8 kg (79. lb.) (minimum) 44 kg (97 lb.) (maximum)

Warranty

Hardware support	3 years
Software install	90 days
Call response	8 hours
Delivery	Next business day, on-site

Get the details. See how the Sun Fire V490 server combines innovation and investment protection to improve performance while reducing cost and complexity. Contact your Sun Representative at 1-800-555-9SUN, or visit sun.com/v490.

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