Origin 200 GIGAchannel Technical Specifications

Processor Data

- Microprocessor: 64-bit MIPS® RISC R12000™ 270 MHz
- Primary caches: 32KB two-way set-associative on-chip instruction cache, 32KB two-way set-associative on-chip data cache
- Secondary cache: 360 MHz 4MB ECC cache/processor

PCI Options

- XIO bandwidth: 1.26GB/sec sustained aggregate
- Bus type: XIO, PCI
- CPU capacity: 1 to 2 R10000 or R12000 CPUs per tower
- Microprocessor: 64-bit MIPS® RISC R10000® 360 MHz
- PCI bandwidth: 200MB/sec sustained, 267MB/sec
- PCI slots: 7 32/64-bit 33 MHz 3.3/5 V PCI slots
- Cooling: 3 variable-speed fans
- Internal storage channels: 140MB/sec Fast/Wide Ultra SCSI
- I/O slots: 7 32/64-bit 33 MHz 3.3/5 V PCI slots
- Memory bandwidth: 630MB/sec sustained
- Interleaving: 4-way per bank
- Cache coherency: Fully in hardware
- Memory capacity: 256MB to 2GB ECC protected
- Secondary cache: 225 MHz: 2MB ECC cache/processor
- Primary caches: 32KB two-way set-associative

Technical Specifications

- Networking: TCP/IP, NFS™ V2/V3, RSVP, DHCP, X/OPEN XPG4
- FDDI dual attach
- Serial ports: 4-port Ultra SCSI, 1-port Fibre Channel (copper or fiber), 4-port Fast/Narrow Ultra SCSI
- Physical media, MB ECC: 216GB 432GB
- Physical memory, MB ECC: 256 to 2048 512 to 4096
- RAID: TP9100, Up to nine TP9100s per rack (108 drives, 18GB, 36GB, 73GB)
- Maximum capacity: 11.9TB dual tower (Ultra SCSI)
- Maximum bandwidth: 40MB/sec Ultra SCSI, 20MB/sec 1 2
- Maximum capacity: 265TB dual tower (Fibre Channel RAID)
- Network: IRIS GL™, OpenGL®
- MIPS ABI, SVID issue 3, X11R6, System V.4, 4.3 BSD extensions, 1003.1b, 1003.1c FIPS 151-2, UNIX®
- Disk capacity, internal: 216GB 432GB
- Physical memory, MB ECC: 256 to 2048 512 to 4096
- R12000 1 to 2 2 to 4
- Noise: 55 dBA
- Altitude: 10,000 MSL
- Temperature: 20˚ to +60˚C
- Humidity: 10% to 90% noncondensing
- Altitude: 12,000 MSL
- Voltage: 110/220 VAC 1 Phase auto-sensing
- Electrical service: 100/110 VAC @ 15A, 200/220 VAC @ 1A, 200/220 VAC @ 1A
- Environment (Operating): +5˚ to +35˚C
- Environment (Nonoperating): +5˚ to +45˚C
- Humidity: 10% to 90% noncondensing
- Altitude: 12,000 MSL
- Noise: 55 dBA

Software

- System: IRIX® 6.5 ASE, X/Open XPG4
- Base: I386, I486, I387, RISC, X/OPEN XPG4
- Server: XFS™ 64-bit journaled filesystem with guaranteed rate/GIGAchannel (Protection), software distribution
- Web server: Netscape Enterprise server, NetWatchTrack Web server, SG Internet Gateway
- PC: IRIS NetBlaster™, IRIS Pro™
- Software: Systems Management Toolbox, Performance Co-Pilot™ system and network performance monitoring software
- Compilers: ANSI C, C++, Fortran 77, Ada, Pascal, Power C Compiler (PCC), Power Fortran 77, Fortran 90, Power Fortran 90
- Macintosh integration: Shutl, Siena for IRIS
- High Availability: IRIS FaultSafe™ (optional)

Support and Warranty

- One-year hardware warranty with advanced parts exchange, remote diagnostics support available

Dimensions and Weights

- Tower dimensions: 23” H x 26.5” D x 9” W (two units)
- Rack mountable: 19” customer-supplied rack or 42U rack
- Rack mounted dimensions: 6.8’ H x 25.5” D x 12.4” W (two units)
- Weight: 320 lb (145 kg) minimum

Environmental (Operating)

- Temperature: 20˚ to +60˚C
- Humidity: 10% to 90% noncondensing
- Altitude: 12,000 MSL
- Noise: 55 dBA

Electrical and Power

- Voltage: 110/220 VAC (optional) with guaranteed rate I/O, system service MIB
- Frequency: 50/60 Hz
- Power supply: 483 W, Standard (483 W) Optional Redundant Power Supply (RPS)
- Heat dissipation: 2,300 BTU/hr, maximum
- Electrostatic discharge: 100/220 VAC @ 1A, 200/220 VAC @ 1A

Regulatory

- Origin 200 is classified FCC Class A, CE, CSA TUV, UL, CISPRA, and IEC Class 2 certified

Configuration Summary

- Origin 200 GIGAchannel
- Dual-tower Origin 200
- Single-tower Origin 200

- Processor: IRIS R12000™ 270 MHz
- Memory: 256MB to 2GB ECC protected
- Caches: 32KB instruction cache, 32KB data cache, 2MB ECC cache/processor
- Primary Caches: 2-way set-associative
- Secondary Caches: 2-way set-associative
- Dual-tower system also available

Origin 200 GIGAchannel 1U or 2U