Solbourne is 100\% SPARC compatible.

SPARC (Scalable Processor Architecture), upon which the Series5 product family is based, has become the leading architecture for high performance RISC processors. Because the Series5 adheres to the same standard as Sun Microsystems and other leading computer companies, you have the industry's largest library of RISC workstation software available to you. Your investment in workstation hardware and software is protected, and you have the flexibility to purchase from those who can provide the solutions most appropriate to your needs.

The Series5 is 100\% binary and network compatible with all other SPARC implementations, including the entire Sun-4™ and SPARCSystem™ product line. To the network, a Series5 node looks like a Sun node. A Series5 server can operate as a file and/or compute server for Sun workstations, or vice versa.

To ensure complete compatibility, Solbourne licensed key technology from Sun Microsystems and others, including:
• SPARC Architecture
• SunOS™ (Sun's version of UNIX™), from which Solbourne's OS/MP™ is derived
• SunView™, NeWS™, X Window System™
• OpenLook™
• SunCGI™, SunCore™, Pix rects™
• ONC™, NFS™, TCP/IP
• C, FORTRAN compilers

Architecture versus implementation.

SPARC specifies the instruction set and the other external features of a processor that are visible to the program—it does not specify an implementation. SPARC chips are now available to Solbourne from leading semiconductor companies such as Fujitsu, Bipolar Integrated Technologies, Texas Instruments, and Cypress Semiconductor Corp.
Solbourne and Matsushita Electric are also developing a unique SPARC chip.

This competition between SPARC chip manufacturers and system vendors leads to lower prices, more products to choose from, and more computing power for you.

Solbourne compatibility assures that you can immediately execute the broad base of hundreds of SPARC software applications, with minimal modification. Solbourne's SPARC compatibility is widely accepted by the industry. A few of the leading software vendors who have confirmed
their software is 100% compatible. Solbourne products are: Oracle, Berkeley Parallel Unix (EAS), Autodesk (AutoCAD), and many others.

Kbus: the soul of performance, the heart of the future.

At the center of the Series5 is the high-speed 64-bit Kbus. It supports a data transfer rate of 128 Mbytes per second and provides data integrity via error detection and correction circuitry (ECC).

The Kbus is designed to accommodate ever more powerful processors as they become available, as well as higher data rates to and from faster disk drives.

The Kbus connects up to four processors to:

**Memory.** Series5 products incorporate ECC memory, so that all double-bit errors can be detected (and most can be corrected). By contrast, products that provide only parity checking for memory cannot correct single-bit errors and cannot detect double-bit errors.

**The System Board.** With a 20,000 gate ASIC at its heart, this board provides as standard features a synchronous SCSI interface for attaching peripherals, two RS-232-compatible communications ports, an Ethernet connection, and the monochrome graphics controller and frame buffer.

**Color Board.** A Sun-4 compatible color frame buffer is provided.

On our larger servers and deskside workstations, the system board provides an interface to a VMEbus. Industry standard VMEbus cards allow attachment of cards for a variety of features available from Solbourne, such as Ethernet gateway cards, RS-232 communications cards, and peripheral interface cards. You can also attach qualified VME cards which you have purchased from others to satisfy special requirements.
Solbourne product line: breadth, depth and quality.

Solbourne provides a full range of high quality, compatible workstation and server products.

Our multiprocessing systems offer features designed to meet the price-performance requirements of organizations with even the most diverse needs.

Multiprocessing provides scalability: you can start small but add additional processors quickly and inexpensively in the field when you need more power.
Desktop multiprocessing stations are available in a wide variety of configurations. Inexpensive to add computing power to your work or, with the compact SCSI system, gain the capacity to execute any application locally.

Solbourne deskside workstations combine greater computing power with more capacity for memory and mass storage.

Solbourne compatible servers offer high performance and flexibility to your workgroup, department or large network. Multiprocessing capabilities become available to all nodes on the network. High speed SMD mass storage together with high density helical scan backup tape capabilities provide the primary and secondary storage capacity and reliability you need for the crucial network server function.

A full line of networking products streamlines the management of information flow and increases facility-wide communications capabilities.
Custom SPARC chip: ultra performance for ultra-low cost.

Solbourne's partnership with Matsushita Electric Industrial Co., Ltd. combines the technical, manufacturing and financial strengths of one of the world's largest companies with the creativity and responsiveness of an American entrepreneurial enterprise. Matsushita and Solbourne are jointly developing a custom SPARC microprocessor.

In 1990, Solbourne will introduce its first products based on this chip. Designed to take full advantage of both the 64-bit data path width and multiprocessing architecture of current Solbourne products and of future technological advances, the chip integrates all the performance-critical elements of the system—integer CPU, floating point processor, memory management unit and cache memory—on a single 64-bit chip. Incorporating nearly one million transistors in sub-micron CMOS technology, the chip will deliver significant advantages in both performance and price, particularly for future low cost desktop members of the Solbourne product line.
Multiprocessing: scalable high performance.

Solbourne's SPARC-compatible multiprocessing technology increases productivity through increased aggregate throughput. Multiple CPUs reside on the 64-bit shared memory and a single copy of the OS/MP UNIX-based operating system. Solbourne workstations and servers can support up to 16 processors, providing simultaneous execution of many different application and system tasks, with workload automatically distributed among the processors for maximum throughput.

The benefits of multiprocessing can be immediately enjoyed in both single user and large networked environments, without software conversion or user training. The increased power and performance of multiprocessing is completely transparent to both the user and the application.

In an individual workstation configuration, each of up to four CPUs can simultaneously execute a discrete process. Four tasks can be completed in little more time than a single task on a uniprocessor system, resulting in significantly increased productivity.
In a networked environment where a number of computers are connected to a server, all users on the network can access the capabilities of multiprocessing, with up to four processes executing concurrently. In a uniprocessor environment, several servers would be required to achieve the same performance.

Solbourne systems are designed to ensure a smooth migration path. As your processing requirements change, you can scale your Solbourne system to meet your needs while maintaining complete SPARC compatibility. Start with a single processor system and inexpensively add processing performance as your needs increase—on-site, without replacing your existing equipment.

**We’ll be there after the sale.**

Solbourne is dedicated to providing service and support second to none. We believe that customer satisfaction begins with timely delivery of high quality, reliable products. By providing comprehensive educational services and prompt response from industry specialists and technical experts, we can help you achieve maximum value and performance from your Solbourne products every day.

Compatibility, performance, affordability and service. Throughout our family of multiprocessing workstations and servers, we offer high performance, scalable, standards-based solutions for any computing environment.

Our goal: to lower the cost of ownership compared to other products in the marketplace. See the benefits of the Solbourne alternative for yourself! We are committed to your success.
The Solbourne Series5/500™ Desktop Workstation combines the power and performance of multiprocessing with the ergonomics and convenience of a desktop workstation. Hosting one or two 22-MIPS SPARC™ processors, the Series5/500 provides up to 40 MIPS of processing power and 8.8 double precision MFLOPS of floating point performance.

**Compatibility**
To the other nodes on the network, the Solbourne Series5/500 Desktop Workstation looks just like a SPARCstation™. Like our Series5 servers, it is completely binary compatible with your Solbourne, Sun-4™ and SPARCsystm™ networks, executing your applications without modification.

**Multiprocessing**
The Series5/500 multiprocessing architecture supports simultaneous execution of multiple tasks, with the workload automatically distributed among the processors for maximum throughput. As your performance requirements increase, the Series5/500 can be upgraded in the field, from a uniprocessor to a dual processor system.

**Performance**
The Solbourne Series5 is the first SPARC-based product line to utilize the high speed 33 MHz CPU. A number of technical features have been incorporated to take maximum advantage of the high performance CPU:

- A 33 MHz, single chip floating point SPARC coprocessor/controller for computation-intensive tasks.
- High speed GaAs TLB cache control to support faster data flow.
- 128 Kbytes of physical cache per CPU board.
- Up to 256 Mbytes of ECC RAM, providing headroom for the most memory intensive applications.

The high speed, 64-bit Kbus™ supports a data transfer rate of 128 Mbytes/second, permitting full utilization of the 33 MHz CPU and multiprocessing features of the Series5. The Kbus is engineered to support the Series6 and subsequent generations of microprocessors as well.

**Flexibility**
The Series5/500 is available in a variety of configurations. Inexpensively add computing power to your network or, with the compact SCSI subsystem, gain the capacity to execute any application locally.

In the diskless arrangement, the Desktop Workstation inexpensively provides additional computing power for your Solbourne, SPARC or Sun network.

A dataless configuration, which includes one 3½-inch hard disk drive, is a low-cost way to increase workstation performance while reducing the need for network resources.

The Series5/500 is also available in a standalone configuration. Combining multiprocessing with a flexible SCSI subsystem provides enough local power to execute any application.

**Secondary Storage**
Solbourne's 8mm Cartridge Tape Drive uses helical scan technology to place 2.0 Gbytes of reliable, high density secondary storage on a single video cartridge. The ½" and ¼" Tape Drives, with 150 Mbyte capacity on reels or cartridges, provide industry-standard data interchange.

<table>
<thead>
<tr>
<th>Series5/500</th>
<th>#Processors</th>
<th>MIPS</th>
<th>Double Precision MFLOPS*</th>
</tr>
</thead>
<tbody>
<tr>
<td>501</td>
<td>1</td>
<td>22</td>
<td>4.9</td>
</tr>
<tr>
<td>502</td>
<td>2</td>
<td>40</td>
<td>8.8</td>
</tr>
</tbody>
</table>

*Relative to Sun Microsystems benchmarks
Specifications

Features & Capacities

Central Processors
- Two central processors per workstation
- Microprocessor: Cypress CY7C601 Sparc 32-bit RISC CPU
- Clock Rate: 33 MHz
- Floating Point: Weitek 3171 floating point processor, 32-bit single-precision, 64-bit double-precision
- System Bus: Solbourne's 64-bit Khus provides five slots, error checking and correction; operates at 128 Mbytes/second
- I/O Port: Synchronous SCSI
- Cache: 128 Kbytes/processor direct mapped physical instruction & data cache

Real Memory
- Minimum: 16 Mbytes
- Expansion: 16 or 32 Mbyte increments to 96 Mbytes (Configuration dependent)
- Available: 128 Mbyte increments to 256 Mbytes (Available 1/90)

Virtual Memory
- Address Size: 32 bits data/instruction
- Address Space: 4 Gbytes per process

Display
- Monochrome: 19" landscape
- Color: 16" or 19" landscape
- Resolution: 1152 x 900 pixels
- Refresh Rate: 60 Hz Non-interlaced
- Aspect Ratio: 1:1
- Frame Buffer: 1 bit per pixel
- Color Support: 8-bit color storage plus 2-bit overlay storage
- Simultaneous display of 256 colors from a palette of more than 16.7 million colors

Controls
- Brightness, on/off
- Contrast, brightness, degauss, on/off

Disk Drive (optional)
- Maximum: One drive
- Type: 3½-inch Winchester full-height
- Interface: Synchronous SCSI
- Capacity: 200 Mbytes (formatted)
- Average Access: 16 ms seek, 8.33 ms latency

SCSI Subsystem

Disk Drives
- Maximum: Two drives
- Type: 5¼-inch Winchester full-height
- Interface: Synchronous SCSI
- Capacity: 327 Mbytes to 1.5 Gbytes (formatted, 327 or 661 Mbytes per drive)
- Average Access: 18 ms seek, 8.33 ms latency

Cartridge Tape Drive (optional)
- Maximum: One drive
- Type: Half-height 1/2-inch cartridges QIC-24 and QIC-150 (Can read and write Sun-4 and SPARCstation tapes)
- Interface: SCSI
- Capacity: QIC-150: 150 Mbytes/cartridge with 600XTD tape cartridge, QIC-24: 60 Mbytes/cartridge with 200 tape cartridge
- Transfer Rate: 1.25 Mbytes/second
- Tape Speed: 90 inch/second read or write

8mm Cartridge Tape Drive (optional)
- Maximum: One drive
- Type: Helical scan, full-height
- Interface: SCSI
- Capacity: 2.0 Gbytes/cartridge with 106 m tape cartridge
- Transfer Rate: 1.25 Mbytes/second

Ethernet
- Data Rate: 10 Mbits/second
- Cabling: 802.3 coaxial — 15 pin
- Serial I/O: Two RS-423A (RS-232C-compatible)
- Data Rates: 57.6 kbps asynchronous, 9.216 kbps synchronous

Interaction Devices
- Keyboard: 107-key, PC-style
- Mouse: 126-key, engineering-style (optional)
- Optical: 3-button, 1.8 m (6 foot) cable

Weights & Dimensions
- Display: Monochrome-19"
  - Height: 46 cm (18.1 in.)
  - Width: 46 cm (18.1 in.)
  - Depth: 27 cm (10.6 in.)
  - Net Weight: 20 kg (45 lbs.)
  - Ship Weight: 23 kg (50 lbs.)

- Display: Color-16"
  - Height: 40 cm (16 in.)
  - Width: 40 cm (16 in.)
  - Depth: 45 cm (17.7 in.)
  - Net Weight: 29 cm (11 in.)
  - Ship Weight: 32.1 cm (12.6 in.)

- Keyboard: PC-Style
  - Height: 2.28 cm (0.9 in.)
  - Width: 43.9 cm (17.3 in.)
  - Depth: 15.75 cm (6.2 in.)
  - Net Weight: 10.16 kg (22.4 lbs.)
  - Ship Weight: 11.43 cm (4.5 lbs.)

- Processor Unit with SCSI Subsystem
  - Height: 14.7 cm (5.8 in.)
  - Width: 54.6 cm (21.5 in.)
  - Depth: 45.7 cm (18 in.)
  - Net Weight: 23 kg (50 lbs.)
  - Ship Weight: 28 kg (60 lbs.)

Electrical
- AC Voltage: 100/250 VAC (switchable)
- Frequency: 47 to 66 Hz
- Power: 8 amps @ 115 VAC (920 VA) (max.)
- (Processor) 3 amps @ 115 VAC (345 VA) (max.)
- (SCSI Subsystem)

Environmental
- Temperature: 10° to 40°C (50° to 104°F)
- Power-Off: -20° to 75°C (4° to 167°F)
- Humidity: Operating 20 to 80%, noncondensing at 40°C
- Power-Off: 95%, noncondensing at 40°C

Standards: Meets or Exceeds These Requirements
- Safety: UL 478
- CSA certified per C22.2, No. 220-M11196
- G.S. licensed by TUV per VDE 0806/8.81, IEC 380
- RFI/EMI: FCC part 15 Class A
- Canadian DOC Class A
- VDE Class A
- Ergonomic: G.S. licensed by TUV per DIN ZH168
- X-Ray Emit: BHRIS Rule 21 (subchapter J), PTE (mono. only)

Software
- Operating System: Solbourne OS/MP™ 4.0
- Compilers: C, Fortran 77 (optional), DBX, and XBD tool
- Networking: Ethernet, Network File System (NFS™), Open Network Computing (ONC™), TCP/IP network protocol
- Graphics: Pixrects Graphics library, SunCG™, SunCore™, GKS/C™ (optional)
- User Interfaces: SunView™, X.XI™, Solbourne X Window Manager, NEWS™ (optional)
- Emulation: Virtual PC (optional)

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The Solbourne Series 5/530™ Workgroup Server provides the advantages of low-cost SPARC™-based multiprocessing to your workgroup. The Series 5/530 combines a fully SPARC-compatible multiprocessor system with up to 256 Mbytes of ECC RAM and 2.6 Gbytes of mass storage capacity. This compact server provides from 22 to 40 MIPS of processing power and up to 8.8 double precision MFLOPS, yet is small enough to be placed on a desktop.

Compatibility

The Solbourne Series 5/530 Workgroup Server looks just like a SPARCserver™ to the other nodes on the network. Like our Series 5 workstations, it is completely binary compatible with your Solbourne, Sun-4™ and SPARCSys™ networks, executing your applications without modification.

Multiprocessing

The Series 5/530 multiprocessing architecture supports simultaneous execution of multiple tasks, with the workload automatically distributed among the processors for maximum throughput. The Workgroup Server makes multiprocessing immediately available to all users on the network, even to nodes such as X terminals and PCs.

As your performance requirements increase, the Series 5/530 can be upgraded in the field, without replacing your existing equipment.

Performance

The Solbourne Series 5 is the first SPARC-based product line to utilize the high speed 33 MHz CPU. A number of technical features have been incorporated to take maximum advantage of the high performance CPU:

- A 33 MHz, single chip floating point SPARC coprocessor/controller for computation-intensive tasks.
- High speed GaAs TLB cache control to support faster data flow.
- 128 Kbytes of physical cache per CPU board.
- Up to 256 Mbytes of ECC RAM, providing headroom for the most memory intensive applications.

The high speed, 64-bit Kbus™ supports a data transfer rate of 128 Mbytes/second, permitting full utilization of the 33 MHz CPU and multiprocessing features of the Series 5. The Kbus is engineered to support the Series 6 and subsequent generations of microprocessors as well.

Secondary Storage

Solbourne's 8mm Cartridge Tape Drive uses helical scan technology to place 2.0 Gbytes of reliable, high density secondary storage on a single video cartridge. The ½" and ¼" Tape Drives, with 150 Mbyte capacity on reels or cartridges, provide industry-standard data interchange.

<table>
<thead>
<tr>
<th>Series 5/530</th>
<th>#Processors</th>
<th>MIPS</th>
<th>Double Precision</th>
</tr>
</thead>
<tbody>
<tr>
<td>531</td>
<td>1</td>
<td>22</td>
<td>4.9</td>
</tr>
<tr>
<td>532</td>
<td>2</td>
<td>40</td>
<td>8.8</td>
</tr>
</tbody>
</table>

*Relative to Sun Microsystems benchmarks
## Specifications

### Features & Capacities

<table>
<thead>
<tr>
<th>Central Processors</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Microprocessor</td>
<td>Cypress 076 CPU SPARC 32-bit RISC CPU</td>
</tr>
<tr>
<td>Clock Rate</td>
<td>33 MHz</td>
</tr>
<tr>
<td>Floating Point</td>
<td>Weitek 371 floating point processor, 32-bit single-precision, 64-bit double precision</td>
</tr>
<tr>
<td>System Bus</td>
<td>Solbourne’s 64-bit KBus™ provides five slots, error checking and correction; operates at 128 Mbytes/second</td>
</tr>
</tbody>
</table>

| I/O Port           | Synchronous SCSI |
| Cache              | 128 Mbytes/processor direct mapped physical instruction & data cache |

### Real Memory

| Minimum Expansion  | 16 Mbytes |
| 16 or 32 Mbyte increments to 96 Mbytes (Configuration dependent) |
| 128 Mbyte increments to 256 Mbytes (Available 1/90) |

### Virtual Memory

| Address Size       | 32 bits data/instruction |
| Address Space      | 4 Gbytes per process |

### Disk Drive (optional)

| Maximum            | One drive |
| Type               | 3½-inch Winchester |
| Interface          | Synchronous SCSI |
| Average Access     | 16 ms seek, 8.33 ms latency |

### SCSI Subsystem

| Maximum            | Two drives |
| Type               | 5½-inch Winchester full-height |
| Interface          | Synchronous SCSI |
| Capacity           | 327 Mbytes to 1.3 Gbytes (formatted, 327 or 661 Mbytes per drive) |
| Average Access     | 18 ms seek, 8.33 ms latency |

### ¼-Inch Cartridge Tape Drive (optional)

| Maximum            | One drive |
| Type               | Half-height ¼-inch cartridges QIC-24 and QIC-150. (Can read and write Sun-4 and SPARCstation tapes) |
| Interface          | SCSI |
| Capacity           | QIC-150: 150 Mbytes/cartridge with 600XT tape cartridge; QIC-24: 60 Mbytes/cartridge with 600 tape cartridge |
| Transfer Rate      | 1.25 Mbytes/second |
| Tape Speed         | 90 inch/second read or write |

### 8mm Cartridge Tape Drive (optional)

| Maximum            | One drive |
| Type               | Helical scan, full-height |
| Interface          | SCSI |
| Capacity           | 2.0 Gbytes/cartridge with 106 m tape cartridge |
| Transfer Rate      | 1.25 Mbytes/second |
| Ethernet           | 10 Mbits/second |
| Cabling            | 0.3 coaxial — 15 pin |
| Serial I/O Ports   | Two RS-422A (RS-232C-compatible) |
| Data Rates         | 57.6 Kbaud asynchronous, 9.21 Kbaud synchronous |

### Weights & Dimensions

<table>
<thead>
<tr>
<th>Processor Unit with SCSI Subsystem</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Height</td>
<td>14.7 cm (5.8 in.)</td>
</tr>
<tr>
<td>Width</td>
<td>54.6 cm (21.5 in.)</td>
</tr>
<tr>
<td>Depth</td>
<td>45.7 cm (18 in.)</td>
</tr>
<tr>
<td>Net Weight</td>
<td>23 kg (50 lbs.)</td>
</tr>
<tr>
<td>Ship Weight</td>
<td>28 kg (60 lbs.)</td>
</tr>
</tbody>
</table>

### Environmental

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Temperature</td>
<td>10°C to 40°C (50°F to 104°F)</td>
</tr>
<tr>
<td>Power-Off</td>
<td>-20°C to 75°C (-4°F to 167°F)</td>
</tr>
</tbody>
</table>

### Standards:

- Meets or Exceeds These Requirements
  - Safety: UL 478, CSA certified per C22.2, No. 220-M5986, G.S. licensed by TUV per VDE 0886/8.81, IEC 580
  - RFI/EMI: FCC part 15 Class A, Canadian DOC Class A, VDE Class A
  - X-Ray Emit: DHHS Rule 21 (subchapter J), PTB (mono. only)

### Software

- Operating System: Solbourne OS/MP™ (derived from SunOS™)
- Compilers: C, Fortran 77 (optional), DBX, and XDB tool
- Networking: Ethernet, Network File System (NFS™), Open Network Computing (ONC™), TCP/IP network protocols
- User Interfaces: SunView™, X.X™, Solbourne X Window Manager, NWS™ (optional)

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Kemnerry Park, Swindon
Wiltshire SN2 6BL
UK 44 793 493333 (PAX 44 793 488866)
The Solbourne Series 5/600™ Deskside Workstation is a fully SPARC™-compatible multiprocessor system. Hosting up to four 22-MIPS SPARC processors, the Series 5/600 provides up to 65 MIPS of computing power and 14.5 MFLOPS of double precision floating point performance. Up to four SCSI disk drives are supported, containing 327 Mbytes to 2.6 Gbytes of high speed storage capacity. Up to 256 Mbytes of ECC RAM provide enough memory for the most demanding applications. The Series 5/600 Deskside Workstation blends easily into your office environment and has no special power requirements.

Compatibility
The Solbourne Series 5/600 Deskside Workstation looks just like a SPARCstation™ to the other nodes on the network. Like our Series 5 servers, it is completely binary compatible with your Solbourne, Sun-4™ and SPARCsystem™ networks, executing your applications without modification.

Multiprocessing
The Series 5/600 multiprocessing architecture supports simultaneous execution of multiple tasks, with the workload automatically distributed among the processors for maximum throughput.

Solbourne single CPU performance is superior to competitive uniprocessor models. In some applications, additional processors result in four times the throughput! As your performance requirements increase, the Series 5/600 can be upgraded in the field, without replacing your existing equipment.

Performance
The Solbourne Series 5 is the first SPARC-based product line to utilize the high speed 33 MHz CPU. A number of technical features have been incorporated to take maximum advantage of the high performance CPU:

- A 33 MHz, single chip floating point SPARC coprocessor/ controller for computation-intensive tasks.
- High speed GaAs TLB cache control to support faster data flow.
- 128 Kbytes of physical cache per CPU board.
- Up to 256 Mbytes of ECC RAM, providing headroom for the most memory intensive applications.

Solbourne's integrated SCSI bus runs at 4 Mbytes/second in synchronous mode, ensuring that the SCSI disk drives can perform to full advantage.

The high speed, 64-bit Kbus™ supports a data transfer rate of 128 Mbytes/second, permitting full utilization of the 33 MHz CPU and multiprocessing features of the Series 5. The Kbus is engineered to support the Series 6 and subsequent generations of microprocessors as well.

Secondary Storage
Solbourne's 8mm Cartridge Tape Drive uses helical scan technology to place 2.0 Gbytes of reliable, high density secondary storage on a single video cartridge. The 1/2” and 1/4” Tape Drives, with 150 Mbyte capacity on reels or cartridges, provide industry-standard data interchange.

<table>
<thead>
<tr>
<th>Series 5/600</th>
<th>#Processors</th>
<th>MIPS</th>
<th>MFLOPS*</th>
</tr>
</thead>
<tbody>
<tr>
<td>601</td>
<td>1</td>
<td>22</td>
<td>4.9</td>
</tr>
<tr>
<td>602</td>
<td>2</td>
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<td>12.0</td>
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<tr>
<td>604</td>
<td>4</td>
<td>65</td>
<td>14.5</td>
</tr>
</tbody>
</table>

*Relative to Sun Microsystems benchmarks
Specifications

Features & Capacities
Central Processors
Maximum
Four central processors per workstation
Microprocessor
Cypress CX72103 SPARC 32-bit RISC CPU
Clock Rate
33 MHz
Floating Point
Weitek 3171 floating point processor; 32-bit single-precision, 64-bit double precision
System Bus
Solbourne's 64-bit Kbus™ provides seven slots, error checking and correction; operates at 128 Mbytes/second
VMEbus™
Industry-standard VMEbus provides seven slots; operates at 25 Mbytes/second
I/O Port
Synchronous SCSI
Cache
128 Kbytes/processor direct mapped physical instruction & data cache

Real Memory
Minimum
16 Mbytes
Expansion
16 or 32 Mbyte increments to 160 Mbytes (Configuration dependent)
128 Mbyte increments to 256 Mbytes (Available 1/90)

Virtual Memory
Address Size
32 bits data/instruction
Address Space
4 Gbytes per process

Display
Format
Monochrome
19" landscape
Color
16" or 19" landscape
Resolution
1152 x 900 pixels
Refresh Rate
60 Hz Non-interlaced 66 Hz Non-interlaced
Aspect Ratio
1:1
Frame Buffer
1 bit per pixel
Color Support
8-bit color storage plus 2-bit overlap storage, Simultaneous display of 16.7 million colors from a palette of more than 256 colors from a dummy set of more than 16.7 million colors

Controls
Brightness, on/off
Contrast, brightness, degauss, on/off

Disk Drive (optional)
Maximum
Four drives (three if cartridge tape installed)
Type
5 1/4-inch Winchester full-height
Interface
Synchronous SCSI
Capacity
327 Mbytes to 2.6 Gbytes (formatted, 327 or 661 Mbytes per drive)
Average Access
16 ms seek, 8.3 ms latency

1/4-Inch Cartridge Tape Drives (optional)
Maximum
Two drives
Type
Half-height 1/4-inch cartridges QIC-24 and QIC-150. (Can read and write Sun-4 and SPARCstation tapes)
Interface
SCSI
Capacity
QIC-150: 150 Mbytes/cartridge with 600XTD tape cartridge. QIC-24: 60 Mbytes/cartridge with 600 tape cartridge
Transfer Rate
1.25 Mbytes/second
Tape Speed
90 inch/second read or write

3mm Cartridge Tape Drive (optional)
Maximum
One drive
Type
Helical scan, full-height
Interface
SCSI
Capacity
2.0 Gbytes/cartridge with 106 m tape cartridge
Transfer Rate
1.25 Mbytes/second

Ethernet
Data Rate
10 Mbits/second
Cabling
802.3 coaxial cable — 15 pin

VME/Ethernet (optional)
Data Rate
10 Mbits/second
Cabling
802.3 coaxial cable — 15 pin

VME/16 Line Multiplexer (optional)
Data Rate
50 to 58.40 baud
Ports
16 RS-232 channels (maximum 64 channels)
Full modem support on all 16 channels
Serial 1/0
Ports
Two RS-422A (RS-232C-compatible)
Data Rates
57.6 Kbaud asynchronous, 2.1 Kbaud synchronous

Interaction Devices
Keyboard
107-key, PC-style
Mouse
126-key, engineering-style (optional)
Optical, 3-button, 1.8m (6 foot) cable

Weights & Dimensions

Display
Monochrome: 19"
Height
46 cm (18.1 in.)
Width
46 cm (18.1 in.)
Depth
27 cm (10.6 in.)
Net Weight
20 kg (45 lbs.)
Ship Weight
23 kg (50 lbs.)

Color: 19"
Height
46 cm (16.1 in.)
Width
46 cm (16.1 in.)
Depth
45 cm (17.7 in.)
Net Weight
29 kg (65 lbs.)
Ship Weight
32.1 kg (70.6 lbs.)

Deskside Unit
Height
76.2 cm (30 in.)
Width
45.72 cm (18 in.)
Depth
55.88 cm (22 in.)
Net Weight
76 kg (167 lbs.)
Ship Weight
95 kg (209 lbs.)

Keyboard
PC-Style
Height
2.28 cm (0.9 in.)
Width
45.94 cm (17.5 in.)
Depth
15.75 cm (6.2 in.)
Net Weight
10.16 kg (23 lbs.)
Ship Weight
11.43 kg (25.5 lbs.)

Engineering Style
Height
7 cm (2.8 in.)
Width
2.28 cm (0.9 in.)
Depth
15.75 cm (6.2 in.)
Net Weight
2.34 kg (5 lbs.)
Ship Weight
2.7 kg (6 lbs.)

Electrical
AC Voltage
115/230 VAC (switchable)
Frequency
47.5 to 66 Hz
Power
12 amps @ 115 VAC (1380 VA) (max.)

Environmental
Temperature
Operating
10º to 40ºC (50º to 104ºF)
Power-Off
-20º to 75ºC (-4º to 167ºF)
Humidity
Operating
20 to 80%, noncondensing at 40ºC
Power-Off
95%, noncondensing at 40ºC

Standards: Meets or Exceeds These Requirements
Safety
UL 478
CSA certified per C22.2, No. 220 M1986
G.S. licensed by TUV per YDE 0866/6.81, IEC 350
RFI/EMI
FCC part 15 Class A
Canadian DOC Class A
VDE Class A
Ergonomic
G.S. licensed by TUV per DIN ZHL 648
X-Ray Emit
DHBS Rule 21 (subsection J), PTB (mono. only)

Software
Operating System
Solbourne OS/MP™ (derived from SunOS™)
Compilers
C, Fortran 77 (optional), DBX, and XDB tool
Networking
Ethernet, Network File System (NFS™), Open Network Computing (ONC™), TCP/IP network protocol
Graphics
Pixstore Graphics library, SunCGI™, SunCore™, GKS/C™ (optional)
User Interfaces
SunView™, X.11™, Solbourne X Window Manager, News™ (optional)

Emulation
Virtual PC (optional)

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The Solbourne Series 5/670™ Departmental Server provides the advantages of cost-effective SPARC™-based multiprocessing to your department or small enterprise. With up to four 22-MIPS SPARC processors, the Series 5/670 delivers up to 65 MIPS of processing power and 14.5 MFLOPS of double precision floating point performance. Up to four SCSI disk drives are supported, containing 327 Mbytes to 2.6 Gbytes of high speed storage capacity. Up to 256 Mbytes of ECC RAM provide enough memory for the most demanding applications.

Compatibility
The Solbourne Series 5/670 Departmental Server looks just like a SPARCserver™ to the other nodes on the network. Like our Series 5 workstations, it is completely binary compatible with your Solbourne, Sun-4™ and SPARC System™ networks, executing your applications without modification.

Multiprocessing
The Series 5/670 multiprocessing architecture supports simultaneous execution of multiple tasks, with the workload automatically distributed among the processors for maximum throughput. The Departmental Server makes multiprocessing immediately available to all users on the network, even to nodes such as X terminals and PCs. As your performance requirements increase, the Series 5/670 can be upgraded in the field, without replacing your existing equipment.

Performance
The Solbourne Series 5 is the first SPARC-based product line to utilize the high speed 33 MHz CPU. A number of technical features have been incorporated to take maximum advantage of the high performance CPU:

- A 33 MHz, single chip floating point SPARC coprocessor/ controller for computation-intensive tasks.
- High speed GaAs TLB cache control to support faster data flow.
- Up to 128 Kbytes of physical cache per CPU board.
- Up to 256 Mbytes of ECC RAM, providing headroom for the most memory intensive applications.

Solbourne's integrated SCSI bus runs at 4 Mbytes/second in synchronous mode, ensuring that the SCSI disk drives can perform to full advantage.

The high speed, 64-bit Kbus™ supports a data transfer rate of 128 Mbytes/second, permitting full utilization of the 33 MHz CPU and multiprocessing features of the Series 5. The Kbus is engineered to support the Series 6 and subsequent generations of microprocessors as well.

Secondary Storage
Solbourne's 8mm Cartridge Tape Drive uses helical scan technology to place 2.0 Gbytes of reliable, high density secondary storage on a single video cartridge. The ½" and ¼" Tape Drives, with 150 Mbyte capacity on reels or cartridges, provide industry-standard data interchange.

<table>
<thead>
<tr>
<th>Series 5/670</th>
<th>#Processors</th>
<th>MIPS</th>
<th>MFLOPS*</th>
</tr>
</thead>
<tbody>
<tr>
<td>671</td>
<td>1</td>
<td>22</td>
<td>4.9</td>
</tr>
<tr>
<td>672</td>
<td>2</td>
<td>40</td>
<td>8.8</td>
</tr>
<tr>
<td>673</td>
<td>3</td>
<td>54</td>
<td>12.0</td>
</tr>
<tr>
<td>674</td>
<td>4</td>
<td>65</td>
<td>14.5</td>
</tr>
</tbody>
</table>

*Relative to Sun Microsystems benchmarks
## Specifications

### Features & Capacities

#### Central Processors
- **Maximum**: Four central processors per workstation
- **Microprocessor**: Cypress CV76601 SPARC 32-bit RISC CPU
- **Clock Rate**: 33 MHz
- **Floating Point**: Weitek 3171 floating point processor, 32-bit single-precision, 64-bit double precision
- **System Bus**: Solbourne's 64-bit Kbus™ provides seven slots, error checking and correction; operates at 128 Mbytes/second
- **VMEbus™**: Industry-standard VMEbus provides seven slots; operates at 25 Mbytes/second

#### I/O Port
- **Ports**: Synchronous SCSI
- **Cache**: 128 Kbytes/processor direct mapped physical instruction & data cache

#### Real Memory
- **Minimum**: 16 Mbytes
- **Expansion**: 16 or 32 Mbyte increments to 160 Mbytes (Configuration dependent)
- **Average Access**: 18 ms seek, 8.33 ms latency

#### Virtual Memory
- **Address Size**: 32 bits data/instruction
- **Address Space**: 4 Gbytes per process

### Disk Drives (optional)
- **Four drives (three if cartridge tape option installed)**
- **Type**: 5 ¼-inch Winchester full-height
- **Interface**: Synchronous SCSI
- **Capacity**: 327 Mbytes to 2.6 Gbytes (formatted, 661 Mbytes per drive)

### ¼-Inch Cartridge Tape Drives (optional)
- **Two drives**
- **Half-height ¼-inch cartridges QIC-24 or QIC-150. (Can read Sun-4 and SPARCstation tapes)**
- **Capacity**: QIC-150: 150 Mbytes/c cartridge with 600XTD tape cartridge, QIC-24: 60 Mbytes/c cartridge with 600 tape cartridge
- **Transfer Rate**: 1.25 Mbytes/second
- **Tape Speed**: 90 inch/second read or write

### ½-Inch Reel-to-Reel Tape Drive (optional)
- **Maximum**: One drive
- **Type**: Front-loading, self-threading, 9-track, desktop enclosure
- **Interface**: SCSI
- **Capacity**: NRZL: 25 Mbytes/reel, 800 bpi PE: 40 Mbytes/reel, 1600 bpi GCR: 150 Mbytes/reel, 6250 bpi 0.75 Mbytes/second (GCR)
- **Transfer Rate**: 125 Mbytes/second read or write

### 8mm Cartridge Tape Drive (optional)
- **Maximum**: One drive
- **Type**: Helical scan, full-height
- **Interface**: SCSI
- **Capacity**: 2.0 Gbytes/c cartridge with 106 m tape cartridge
- **Transfer Rate**: 1.25 Mbytes/second

### Ethernet
- **Data Rate**: 10 Mbits/second
- **Cabling**: 802.3 coaxial — 15 pin

### VME/ETHernet (optional)
- **Data Rate**: 10 Mbits/second
- **Cabling**: 802.3 coaxial — 15 pin

### VME/16 Line Multiplexer (optional)
- **Data Rate**: 50 to 38,400 baud
- **Ports**: 16 RS-232 channels (maximum 64 channels)
- **Full modem support on all 16 channels

### Serial I/O
- **Ports**: Two RS-232A (RS-232C-compatible)
- **Data Rates**: 57.6 Kbaud asynchronous, 9.6 Kbaud synchronous

### Weights & Dimensions
- **Height**: 76.20 cm (30 in.)
- **Width**: 45.72 cm (18 in.)
- **Depth**: 55.88 cm (22 in.)
- **Net Weight**: 76 kg (167 lbs.)
- **Ship Weight**: 95 kg (209 lbs.)

### Electrical
- **AC Voltage**: 115/230 VAC (switchable)
- **Frequency**: 47.5 to 66 Hz
- **Power**: 12 amps @ 115 VAC (1380 VA) (max.)

### Environmental

#### Temperature
- **Operating**: 10° to 40°C (50° to 104°F)
- **Power-Off**: 20 to 75°C (−4° to 167°F)

#### Humidity
- **Operating**: 20 to 80%, noncondensing at 40°C
- **Power-Off**: 95%, noncondensing at 40°C

### Standards: Meets or Exceeds These Requirements
- **Safety**: UL 476
- **CSA certified per C22.2, No. 220-M1986
- **G.S. licensed by TUV per VDE 0806/8.81, IEC 580
- **RFI/EMI**: FCC part 15 Class A
- **Canadian DOC Class A
- **VDE Class A
- **X-Ray Emit**: DHHS Rule 21 (subchapter J), PTB (mono. only)

### Software
- **Operating System**: Solbourne OS/MP™ 4.0
- **Compilers**: C, Fortran 77 (optional), DBX, and XDB tool
- **Networking**: Ethernet, Network File System (NFS™), Open Network Computing (ONC™), TCP/IP network protocol
- **User Interfaces**: SunView™, X.11™, Solbourne X Window Manager, NEWS™ (optional)

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The Solbourne Series 5/800™ Network Server is a fully SPARC™-compatible multiprocessor system. Hosting up to four 22-MIPS SPARC processors, the Series 5/800 provides up to 65 MIPS of computing power and 14.5 MFLOPS of double precision floating point performance. The system supports four SMD (Storage Module Device) subsystems, each containing from 0.83 to 3.3 gigabytes, for a total of up to 13.3 gigabytes of high speed mass storage.

Competitive products can require two or more servers to provide the computing power of the Series 5/800. Twice the cost, twice the physical space, twice the administrative overhead. The deskside Network Server requires less space than a rackmount unit, blends easily into your office environment and has no special power requirements.

Compatibility

The Solbourne Series 5/800 Network Server looks just like a SPARCserver™ to the other nodes on the network. Like our Series 5 workstations, it is completely binary compatible with your Solbourne, Sun-4™ and SPARCsystem™ networks, executing your applications without modification.

Multiprocessing

The Series 5/800 multiprocessing architecture supports simultaneous execution of multiple tasks, with the workload automatically distributed among the processors for maximum throughput. The Network Server makes multiprocessing immediately available to all users on the network, even to nodes such as X terminals and PCs.

As your performance requirements increase, the Series 5/800 can be upgraded in the field, without replacing your existing equipment.

Performance

The Solbourne Series 5 is the first SPARC-based product line to utilize the high speed 33 MHz CPU. A number of technical features have been incorporated to take maximum advantage of the high performance CPU:

- A 33 MHz, single chip floating point SPARC coprocessor/ controller for computation-intensive tasks.
- High speed GaAs TLB cache control to support faster data flow.
- 128 Kbytes of physical cache per CPU board.
- Up to 256 Mbytes of ECC RAM, providing headroom for the most memory intensive applications.

The high speed, 64-bit Kbus™ supports a data transfer rate of 128 Mbytes/second, permitting full utilization of the 33 MHz CPU and multiprocessing features of the Series 5. The Kbus is engineered to support the Series 6 and subsequent generations of microprocessors as well.

To further support the speed of the 33 MHz CPU, a high performance disk subsystem is included in the Series 5/800. Each eight-inch SMD drive operates at a sustained transfer rate of 3 megabytes/second, which is up to 25% faster than competitive models. Block transfers of data between the disk controller and the system memory reduce VMEbus contention. Custom silicon sustains 25 Mbyte/second transfers on the VMEbus. Preserving bandwidth in this way enables four subsystems to be hosted at once!

Secondary Storage

Solbourne’s 8mm Cartridge Tape Drive uses helical scan technology to place 2.0 Gbytes of reliable, high density secondary storage on a single video cartridge. The 1/2" and 3/4" Tape Drives, with 150 Mbyte capacity on reels or cartridges, provide industry-standard data interchange.

<table>
<thead>
<tr>
<th>Series 5/800</th>
<th>#Processors</th>
<th>MIPS</th>
<th>Double Precision MFLOPS</th>
</tr>
</thead>
<tbody>
<tr>
<td>801</td>
<td>1</td>
<td>22</td>
<td>4.9</td>
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<tr>
<td>802</td>
<td>2</td>
<td>40</td>
<td>8.8</td>
</tr>
<tr>
<td>803</td>
<td>3</td>
<td>54</td>
<td>12.0</td>
</tr>
<tr>
<td>804</td>
<td>4</td>
<td>65</td>
<td>14.5</td>
</tr>
</tbody>
</table>

*Relative to Sun Microsystems benchmarks
Specifications

Features & Capacities

Central Processors

Maximum
Microprocessor
Clock Rate
Floating Point
System Bus
VMEbus™
I/O Port
Cache

Four central processors per workstation
Cypress CY7C6601 SPARC 52-bit RISC CPU
33 MHz
Weitek 3171 floating point processor, 32-bit single-precision, 64-bit double precision
Solbourne's 64-bit Kbus™ provides seven slots, error checking and correction; operates at 128 Mbytes/second
Industry-standard VMEbus provides seven card slots; operates at 256 Mbytes/second
Synchronous SCSI
128 Mbytes/processor direct mapped physical instruction & data cache

Real Memory

Minimum
Expansion

16 Mbytes
16 or 32 Mbyte increments to 160 Mbytes

(Configuration dependent)
128 Mbyte increments to 256 Mbytes
(Available 1/90)

Virtual Memory

Address Size
Address Space
32 bits data/instruction
4 Gbytes per process

Disk Drives (optional)

Maximum
Type
Interface
Capacity
Average Access
Transfer rate

16 drives
8-inch SMD (Storage Module Device)
SMD-E
830 Mbytes to 13.3 Gbytes (formatted, 830 Mbytes per drive)
16 ms seek, 8.33 ms latency
3 Mbytes/second

1/4-Inch Cartridge Tape Drives (optional)

Maximum
Type
Interf ace
Capacity
Transfer rate
Tape speed

Two drives
Half-height 1/4-inch cartridges QC-24 and QC-150 (Can read and write Sun-4 and SPARCstation tapes)
SCSI
QC-150: 150 Mbytes/carcridge with 600XTD tape cartridge; QC-24: 60 Mbytes/carcridge with 600 tape cartridge
1.25 Mbytes/second
90 inch/second read or write

1/4-Inch Reel-to-Reel Tape Drive (optional)

Maximum
Type
Interface
Capacity
Transfer Rate
Tape Speed

One drive
Front-loading, self-threading, 9-track, desktop enclosure
SCSI
NRZI: 25 Mbytes/reel, 800 bpi
0.75 Mbytes/second (GCR)
125 inch/second read or write

8mm Cartridge Tape Drive (optional)

Maximum
Type
Interface
Capacity
Transfer Rate

One drive
Helical scan, full-height
SCSI
2.0 Gbytes/carcridge with 106 m tape carcade
1.25 Mbytes/second

Ethernet

Data Rate
Cabling

10 Mbits/second
802.3 coaxial — 15 pin

VME/Ethernet (optional)

Data Rate
Cabling

10 Mbits/second
802.3 coaxial — 15 pin

VME/16 Line Multiplexer (optional)

Data Rate
Ports
Serial I/O
Ports
Data Rates

50 to 38,400 baud
16 RS-232 channels (maximum 64 channels)
Two RS-423A (RS-232C-compatible)
57.6 Kbaud asynchronous, 9.2 Kbaud synchronous

Weights & Dimensions

Processor Unit
Peripheral Cabinet

Height
76.20 cm (30 in.)
76.20 cm (30 in.)

Width
45.72 cm (18 in.)
45.72 cm (18 in.)

Depth
55.88 cm (22 in.)
55.88 cm (22 in.)

Net Weight
76 kg (167 lbs.)
50 kg (110 lbs.)

Ship Weight
95 kg (209 lbs.)
69 kg (150 lbs.)

Electrical — Processor Unit

AC Voltage
AC Voltage

115/230 VAC (switchable)
100/240 VAC (switchable)

Frequency
47.5 to 66 Hz
50 to 60 Hz

Power
12 amps @ 115 VAC (1280 VA) (max.)
8.6 amps @ 115 VAC (989 VA) (max.)

Electrical — Peripheral Cabinet

Frequency
50 Hz

Power
8.6 amps @ 115 VAC (989 VA) (max.)

Environmental

Temperature
Operating

10°C to 40°C (50°F to 104°F)

Power-Off

-20°C to 75°C (-4°F to 167°F)

Humidity
Operating

20 to 80% , noncondensing at 40°C

Power-Off

95% , noncondensing at 40°C

Standards: Meets or Exceeds These Requirements

Safety
UL 478
CSA certificated per C22.2, No. 220-M948
G.S. licensed by TUV per VDE 0806/8.81, IEC 580

RFI/EMI
FCC part 15 Class A

Canadian DOC Class A

VDE Class A

Ergonomic
G.S. licensed by TUV per DIN ZH 16/I8

X-Ray Emit
DHHS Rule 21 (subchapter J), PTH (mono. only)

Software

Operating System
Solbourne OS/MP™ 4.0
(derived from SunOS™ 4.0)

Compilers
C, Fortran 77 (optional), DBX, and XDB tool

Networking
Ethernet, Network File System (NFS™), Open Network Computing (ONC™), TCP/IP network protocol

User Interfaces
SunView™, X.11™, Solbourne X Window Manager, News™ (optional)

Solbourne Computer

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