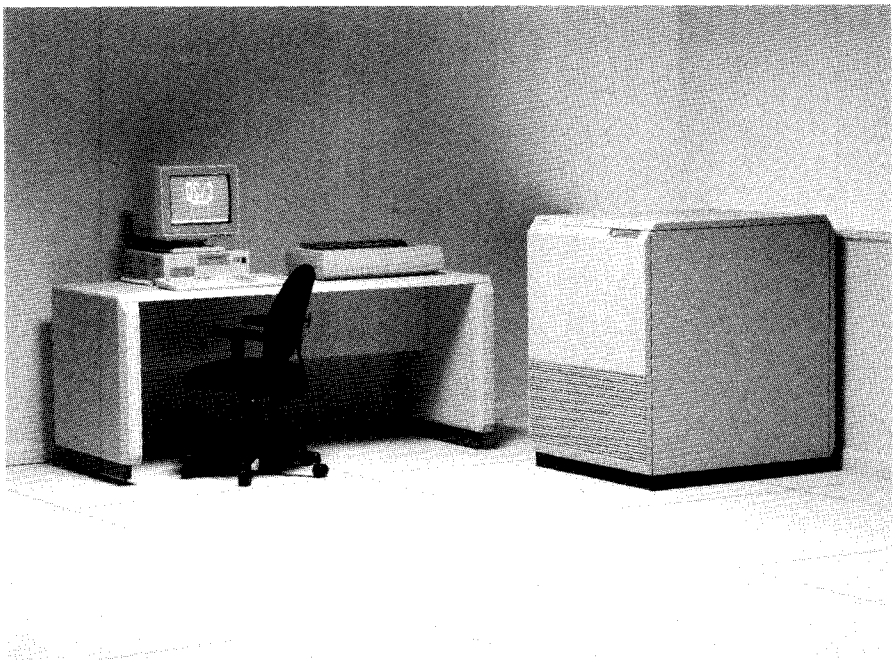
System 80
Model 50

Specification Sheet

UNISYS



General Characteristics

The System 80 Model 50 combines advanced hardware technology with the reliable System 80 architecture to offer you the most powerful processor in the Unisys System 80 family. This increase in performance is provided with the convenience of a single-cabinet design that supports the latest peripheral devices as well as many existing System 80 peripherals.

Software

The Model 50, like all the System 80 computers, operates under control of the proven Operating System/3 (OS/3).

The evolutionary development of OS/3 underscores the Unisys commitment to protecting your investment in hardware and software.

OS/3 Release 14.0, operating on the System 80 Model 50, is fully compatible with prior OS/3 software levels. Current System 80 users can execute most of their existing programs without recompilation.

You can continue to choose from among industry-standard languages, such as COBOL, FORTRAN, Pascal, RPG II, BASIC, C, and Assembler. In addition, two popular CASE/4GL systems are offered: MAPPER®C and LINC™ II.

OS/3 Release 14.0 also offers the Transaction Platform System (TPS) to the Model 50 user. TPS supports the development and execution of IMS and TIP/30 action programs, and provides the transaction interface to MAPPER C, LINC II, and OFIS®.

Numerous applications are also available from Unisys and third-party vendors. They include general ledger, manufacturing, distribution, government, education, and medical packages.

These features combine to make the Unisys System 80 Model 50 the best solution for your growing business needs.

Processor Complex Hardware Configuration

- Single cabinet for the central equipment complex
- Processor (instruction and I/O control functions)
- High-speed processor caches
- Standard 16 MB memory – expandable to a system maximum of 64 MB
- Selector channels, supporting data transfer rates up to 2.2 MB per second, for peripheral connections and data communications via a DCP
- Optional Small Computer System Interface (SCSI) channels for new peripheral connections, supporting data transfer rates up to 4 MB per second
- Integrated 40 MB fixed disk and 1.44 MB flexible disk drive for processor microcode and diagnostic support
- Remote maintenance interface
- System console subsystem using PW^2 series personal computer
- Optional unattended operation feature
- Optional peripheral power sequencing feature

Main Storage Subsystem

The basic main storage unit (MSU) features a single memory board supported by a memory control unit that provides single-bit error correction, double-bit error detection, and processor interfaces. The minimum 16 MB memory can be expanded to 32 MB to give your system increased speed and power. A second MSU can also be configured, providing up to 64 MB of system memory and support of memory interleaving.

Peripherals

Disk Drives

The Model 50 supports two large-capacity disk subsystems via the selector channels: the 8494 and M9720 subsystems. A fully configured M9720 subsystem has a 12.4 Gbyte formatted capacity.

Tape Drives

The Model 50 supports the BT3200 tape controller family as well as the 5055 tape controller and associated UNISERVO® 22/24/26/28 drives.

A high-performance streaming tape drive that connects via the optional SCSI channel is also offered. This half-inch tape provides 170 MB capacity, 6250 GCR, 1600 PE, 800 NRZI, and 100/50 ips stream/ start-stop.

Printers
A number of line printers are supported, including the 0770, 0776, 9246-14B, and 9246-25B. These printers provide print speeds up to 2000 lpm.

Data Communications
Data communications for the Model 50 is provided through distributed communications processors (DCPs). The System 80 Model 50 supports a wide range of DCPs.

End User Protocols
The Model 50 supports UDLC, PDN, bisync, async, and UNISCOPE®protocols through the DCP.

Terminals
A variety of terminals can be connected to the Model 50 via the DCPs, including UTS 20/30/40s and the low-priced SVT 1120/1123/1124 terminals.

UNIX®connectivity, PCs (with STEP), and BTOS terminals with UNISCOPE emulators are also supported.

Physical Description

Processor Cabinet
Height: 40.0 in. (101.6 cm)
Depth: 36.3 in. (92.2 cm)
Width: 31.5 in. (80.0 cm)
Footprint: 7.9 ft^2 (0.74 m^2)
Weight:

Basic configuration – 453 lb (206 kg)

Maximum configuration – 486 lb (220 kg)

Note: A three-foot clearance should be provided in front and back of the processor cabinet.

System Console (PW^2 – Series 500)

Processor
Height: 5.4 in. (13.7 cm)
Depth: 15.3 in. (38.9 cm)
Width: 15.1 in. (38.4 cm)
Footprint: 1.60 ft^2 (0.15 m^2)
Weight: 25 lb (11.34 kg)

Monitor
Height: 13.8 in. (35.0 cm)
Depth: 15.8 in. (40.0 cm)
Width: 14.2 in. (36.0 cm)
Weight: 33 lb (15.0 kg)
Screen: 14 in. dia. (35.5 cm)

Keyboard
Height: 1.7 in. (4.3 cm)
Depth: 8.0 in. (20.3 cm)
Width: 18.9 in. (48.0 cm)
Footprint: 1.05 ft^2 (.097 m^2)
Weight: 6 lb (2.7 kg)

Site Requirements

Unisys designed the System 80 Model 50 to operate in either an office or computer room environment. Typically, there are no special power or air-conditioning requirements, nor does the Model 50 require a raised floor.

The mainframe components require distribution of single-phase ac power services. The processor can be powered either via power cord or hard-wire option. For the processor cabinet, ac power is 208 to 240 volts, 50/60 Hz. The console is separately powered via power cord and requires 120/220 to 240 volts, 50/60 Hz.

Environmental Characteristics

Operating
Temperature: 55°F to 95°F (13°C to 35°C)
Relative Humidity: 10% to 80%

Shipping and Storage
Temperature: –40°F to 149°F (–40°C to 65°C)
Relative Humidity: 95% max.

Power Requirements

The following are the input power requirements (single-phase) and heat load for mainframe components:

Processor Cabinet (max.)
Apparent input power: 4.7 kVA
Real power: 2.8 kW
Heat load: 9556 BTU/hr

Console
Apparent input power: 0.46 kVA
Real power: 0.32 kW
Heat load: 1092 BTU/hr

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