SERIES 5000

Model 90

The Ultimate In 32-Bit Microcomputers

SPERRY

Sperry Corporation introduces an integral part of its commitment to make the UNIX* System V Operating System available from micro to mainframe—the Series 5000 Family of multi-user microsystems. The Series 5000 includes several models, designed to serve a wide range of users. All systems use the Motorola MC680XX microprocessor family as the foundation for their advanced system architecture.

Our commitment to the UNIX System V Operating System is the most comprehensive in the industry today. In addition to the Series 5000, it includes the SPERRY Personal Computer, the Series 7000 supermini and the Series 1100 Family of Mainframes.

Model 90 Features

The SPERRY Series 5000 Model 90 is one of the most powerful multiprocessing microsystems on the market today and supports up to 88 users. It features:

- The industry's most advanced tightly coupled multiprocessor design that uses the MC68020** microprocessor and operates at 12.5 MHz. Each central processor shares a common main memory through a 32-bit Processor Memory Bus, a feature that provides quick response to changing loads.
- Floating point processor as a standard feature.
- The ability to accommodate *in-the-field* addition of up to three processors, high density RAM and high performance disk and tape drives.
- State-of-the-art 32-bit data transfer bus (33.3 megabytes a second), 8KB of cache memory per processor and from 4 to 16 megabytes of memory.

These features and others come in an extremely reliable system, one that is redefining the standard in its price class. For example, the Model 90:

- Offers an optional battery backup, a feature that virtually eliminates losing important data due to power failure.
- Offers error correcting memory and temperature monitors that further ensure reliable, dependable performance.
- Provides automatic self testing of all major component parts and subsystems. When problems are detected in the system, the location and nature of the difficulty is displayed.
- Offers remote testing of the system to pinpoint problems in any of the major subsystems.

All of these features make the Series 5000 Model 90 ideal for bringing the powerful, multi-tasking UNIX System V Operating System, the industry standard multi-user operating system, into your business.

Since the UNIX System V Operating System simplifies application portability from computer system to computer system, the Model 90 is an ideal platform for developing applications and solutions that can be used on other systems in the Sperry UNIX systems.

SERIES 5000 MODEL 90 SYSTEM SPECIFICATIONS

Processor	
Basis:	MC68020
Clock Rate:	12.5 MHz
Local Memory:	8 KB cache
Number:	1–4

Memory	
Capacity:	4–16 MB 2, 4, or 8 MB boards
Buswidth:	39 bits—32 data, 7 ECC
Error Management:	Single bit correction, double bit detection

Expansion Cabinet	
Number:	1–4
Disks (per cabinet):	1–4 (515 MB)
Tapes (per cabinet):	1–2 (1600/3200 BPI) or 1 (1600/6250 BPI)

Disk	
Type (unformatted):	160 MB, 8″ fixed (processor cabinet only) 515 MB, 8″ fixed (expansion cabinet only)
Processor Cabinet Capacity:	160 MB–640 MB
Expansion Cabinet Capacity:	515 MB–2.0 GB
System Capacity:	160 MB–8.0 GB

Tape	
Type:	45 MB, ¼″ cartridge 1600/3200 BPI, ½″ reel 1600/6250 BPI, ½″ reel
Maximum:	1 (¼″ cartridge) and 8 (3200 BPI) or 4 (6250 BPI)

Terminal	
Sperry PC:	All Models
Sperry Video Terminal:	SVT 1210, SVT 1220

Printer	
Correspondence Quality:	Model 31 (55 cps)
Matrix:	Model 25 (160/40 cps) Model 35 (400 cps)
Laser:	Model 47 (20 ppm)
Line:	0789 (640 lpm)

Communications	
Terminals:	• Asynchronous

Networks/Protocols:	• Sperry DCA
	  —UNISCOPE
	  —IS 5000
	• IBM SNA
	  —3270
	  —3770
	• IBM BSC
	  —3270
	  —2780/3780
	• ETHERNET***
	  —TCP/IP
	• X.25
	  —DDN
	  —PDN

Processor Cabinet	
Size:	Height—55″ (139.8 cm) Width—21.5″ (54.6 cm) Depth—34″ (86.4 cm)
Maximum Weight:	527 lbs (239 kg)

Expansion Cabinet	
Size:	Height—55″ (139.8 cm) Width—21.5″ (54.6 cm) Depth—34″ (86.4 cm)
Maximum Weight:	776 lbs (352 kg)

Electrical	
Line Voltage:	220/240 VAC
Line Frequency:	50/60 Hz
Optional Battery Backup:	3 KVA, 240 VAC, 60 Hz

Evironmental	
Operating Temperature:	41°F to 104°F (5°C to 40°C)
Operating Humidity:	20% to 80%

✦ SPERRY