
Arix Computer Corp.

Arix System90: Product Profile

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System Overview

The Arix System90 32-bit supermicrocomputer series is based on the Arix OS UNIX-based operating system. Three models—the System90/25, System90/45, and System90/85—are currently available.

Arix systems support a variety of on-line commercial applications, such as general accounting, credit collection, banking, manufacturing MRP, telemarketing, and satellite communications systems.

Vendor

Arix Computer Corporation
821 Fox Lane
San Jose, CA 95131
(408) 432-1200

Price

Basic configuration prices range from \$52,000 to \$260,000.

GSA Schedule

Yes.

Competition

The Arix System90 systems compete against Digital Equipment Corp.'s 3500, 3600, and 6000 VAX's, and Pyramid's MIServers. Other competitors include Sequent, IBM and AT&T.

Characteristics

See Table 1 for a comparison of system characteristics.

Specifications

Main Memory

The Arix System90 provides main storage in 8-, 16-, and 32M-byte increments.

Processing Components

The 32-bit CPU is based on a 68020 processor running at 25MHz and has 64K bytes of cache.

Peripherals

Mass Storage

See Table 2 for the specifications of mass storage devices.

Tape Drives

The System90 supports two tape drives. The CT-9150-70 is a 150M-byte, 5/4-inch half-height cartridge tape drive. This drive is for lower-cost tape

support and features a 64KB data buffer. The TD-9001-00 is a 9-track tape drive. This drive supports 1600 bpi (PE) and 6250 bpi (GCR) formats and features a 512KB data buffer.

Terminals/Workstations

The Arix System90 supports a range of terminals, workstations, and PCs.

Communications

Protocols Supported: TCP/IP, IEEE 802.3, X.25, NFS.

Network Applications Supported: SNA 3270/3770, BSC 2780/3780, HASP.

LANS Supported: Ethernet TCP/IP.

Operating Environment

The System90/25 power requirements consist of 16A at 110 V AC or 12A at 220 V AC. System90/45 and System90/85 models require 24A at 220 V AC.

Physical Specifications

Model	Height	Width	Depth	Weight
System 90/25	34"	19.5"	34"	390 lb.
System 90/45	46.5"	22"	34"	750 lb.
System 90/85	46.5"	46"	34"	1,500 lb.

Table 1. System Comparison

Model	System 90/25	System 90/45	System 90/85
System Characteristics			
Min/Max Memory (bytes)	8-160M	8-416M	8-416M
Min/Max Storage (bytes)	235M-5G	235M-63G	235M-82G
Number of Processors	1-5	2-8	4-8
Number of Terminals			
Max/Recommended # of Users	128/16	256/128	512/256
Date First Installed	June 1990	June 1990	June 1990
Central Processing Unit & Memory			
Computer Type	32-bit	32-bit	32-bit
Processor Model	68020	68020	68020
Memory Type	ECC	EDAC	ECC
Floating Point Coprocessor	—	—	—
Cache Memory (bytes)	64K	64K	64K
Performance Characteristics			
Multiprocessing Capability (Yes/No)	Yes	Yes	Yes
MIPS	—	—	—
Proc. Clock Speed	25MHz	25MHz	25MHz
I/O Transfer Rate (bytes/sec)	—	—	—
Purchase Price (basic configuration)	\$43,550	\$96,290	\$130,690
Memory/Storage Included (bytes)	0	0	0

Note: A dash (—) in a column indicates that the information is unavailable from the vendor.

Table 2. Mass Storage Devices

Model	DD9050-70	OD9652-70	DD9380-70	DD9760-70	OD9786-70	CD9635-70
Size (inches)	5¼	8	5¼	5¼	5¼	5¼
Formatted capacity (bytes)	50M	652M	380M	760M	786M	635M
Interface/controller	SCSI	SCSI	SCSI	SCSI	SCSI	SCSI
Average access time (ms)	25	67	16.5	16.5	108	—
Purchase Price	\$4,000	\$10,000	\$7,000	\$9,500	\$12,000	\$3,000

Note: A dash (—) in a column indicates that the information is unavailable from the vendor.

Software

Operating System

The OS90 operating system is a high performance operating system that is fully compatible with its UNIX System V origin. Based on UNIX System V Release 3, users have access to standard UNIX compatibility and productivity tools while it offers enhanced multiuser/multi-program operational capabilities. Features include distributed processing (multiprocessing) among System90 Processor Modules; memory striping and multi-port virtual memory management support; file access and protection; enhanced power failure and recovery support; on-line dynamic workload balancing and configuration management; single system user image concepts that present resources, programs and data to all processors as a single system regardless of physical location; mirror imaging features; Network File Support (NFS); Remote File Sharing (RFS) with administrative tools; and security support and POSIX job control.

Communications

Arix offers several communications packages for the System90. A sampling includes:

- X.25 Communications Driver Package—permits connection to public and private X.25 networks via a communications controller synchronous port. A X.3 PAD is provided and facilities for X.29 and X.28 are also included.
- HASP Multileaving emulator—permits an Arix system to emulate RJE workstations. The HASP protocol permits multiple data streams to be intermixed on a single communications line, enabling one operator console and up to seven printer/punch emulators on ARIX systems.

- PCXtend (PCX)—local area network-based server solution providing specific resource sharing services and interoperable connectivity with IBM and compatible PCs.
- NFS—The Network File System facility for transparent sharing of data files between systems connection to a single LAN. This package is compatible with existing NFS systems.

Other Software

Arix offers a wide selection of UNIX-based applications that run on the System90. These include a mix of office automation and general business products.

Sample Configuration Pricing

Sample System90 configurations, including prices, are outlined below.

Entry-Level System: System90/25

Description	Product ID	Price (\$)
CPU	32-bit processor module	23,950
Main Memory	8M bytes	12,000
Console	—	—
I/O Ports	5	Included
Disk Controller	SCSI	—
Disk Drive	380M bytes	7,000
Tape Controller	—	—
Tape Drive	QIC-02 150M bytes	Included
Workstation Controller	—	—
Printer	—	—
Workstation Display	—	—
Total Hardware		49,750
(including async. comm. device controller)		6,800
Monthly Maintenance		343
Operating System	OS90	6,000
Languages	Cobol	3,770

Entry-Level System: System90/25

Description	Product ID	Price (\$)
DBMS	Informix	—
Total		59,520

Intermediate-Level System: System 90/45

Description	Product ID	Price (\$)
CPU	32-bit processor module	62,690
Main Memory	8M bytes	12,000
Console	—	—
I/O Ports	13	Included
Disk Controller	SCSI	—
Disk Drive	380M bytes	7,000
Tape Controller	—	—
Tape Drive	150M bytes	Included
Workstation Controller	—	—
Printer	—	—
Workstation Display	—	—
Total Hardware		88,490
(including async. comm. device controller)		6,800
Monthly Maintenance		665
Operating System	OS90	12,000
Languages	Cobol	5,655
DBMS	Informix	—
Total		106,145

Large System: System90/85

Description	Product ID	Price (\$)
CPU	Two processor modules	97,090
Main Memory	8M bytes	12,000
Console	—	—
I/O Ports	11	ports
Disk Controller	SCSI	—
Disk Drive	380M bytes	7,000
Tape Controller	—	—
Tape Drive	150M bytes	Included
Workstation Controller	—	—
Printer	—	—
Workstation Display	—	—
Total Hardware		116,090
(including async. comm. device controller)		6,800
Monthly Maintenance		952
Operating System	OS90	18,000
Languages	Cobol	11,315
DBMS	Informix	—
Total		152,205