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# Arix Computer Corp. Arix Series 800: Product Profile

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**System Overview**

The Arix Series 800 32-bit supermicrocomputer is based on the Arix OS UNIX-based operating system. Arix systems support a variety of on-line commercial applications, such as general accounting, credit collection, banking, manufacturing MRP, telemarketing, and satellite communications systems.

The Arix Series 800 consists of three models: 825, 850, and 875.

**Vendor**

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

**Price**

Basic configuration prices range from \$34,000 to \$75,500.

**GSA Schedule**

Yes.

**Competition**

The Arix Series 800 systems compete against Digital Equipment Corp.'s 3500, 3600, and 6000 VAX's, Pyramid's MIServers, and Sequent's Symmetry Series. Other competitors include the IBM AS/400 and AT&T 3B2.

# Characteristics

See Table 1 for a comparison of system characteristics.

## Specifications

### Main Memory

The Arix 800 Series provides main storage up to 64M bytes in 8-, 16-, and 32M-byte increments.

### Processing Components

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

### Peripherals

#### Mass Storage

See Table 2 for the specifications of mass storage devices.

#### Tape Drives

Arix tape drives are nine-track magnetic drives. A reel-type nine-track drive includes formatter, cache

memory, power supply, internal drive tray cabling, and mounting hardware. The drives are self-loading and operate in PE mode for 1600 bpi and GCR mode for 6250 bpi.

Model TD-3200-01 is a 1600/3200 cpi dual density nine-track, half-inch reel-type magnetic tape drive with a tape speed of 125 ips and cache.

Model TD-6250-00 is a 1600/6250 cpi dual density nine-track, half-inch reel-type tape with a tape speed of 75 ips and data transfer rate of up to 496K bytes per second and cache.

### Terminals/Workstations

The Arix Series 800 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.

### Operating Environment

The physical specifications of the Series 800 models are highlighted in the following table.

**Table 1. System Comparison**

Model	825	850	875
<b>System Characteristics</b>			
Min/Max Memory (bytes)	4/64M	4/64M	4/64M
Min/Max Storage (bytes)	1.1/6.6G	2.5/10.5G	1.6/10.5G
Number of Processors	1-2	1-3	1-3
Number of Terminals			
Max/Recommended # of Users	400/80	630/128	630/128
Date First Installed	November 1987	November 1987	November 1987
<b>Central Processing Unit &amp; Memory</b>			
Computer Type	32 bits	32 bits	32 bits
Processor Model	68020	68020	68020
Memory Type	ECC	ECC	ECC
Floating Point Coprocessor	68881	68881	68881
Cache Memory (bytes)	64K	64K	64K
<b>Performance Characteristics</b>			
Multiprocessing Capability (Yes/No)	yes	yes	yes
MIPS	—	—	—
Proc. Clock Speed	25MHz	25MHz	25MHz
I/O Transfer Rate (bytes/sec)	—	—	—
Purchase Price (basic configuration)	\$34,000	\$63,750	\$71,250
Memory/Storage Included (bytes)	8/280M	8/337M	8/337M

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

**Table 2. Mass Storage Devices**

Model	DD0337-01	DD0824-01	DD0380-50	DD0760-50
Size (inches)	8	8	5¼	5¼
Unformatted capacity (bytes)	337M	824M	380M	760M
Interface/controller	SMD	SMD	SCSI	SCSI
Average access time (ms)	18-20	18-20	16.5	16.5
Data transfer rate (bytes/second)	2.4M	2.4M	4M	4M
Purchase Price (\$)	10,500	14,750	7,000	9,500

**Physical Specifications**

Model	Height	Width	Depth	Weight
825	33"	11.3"	31"	175 lb.
850	55"	21.5"	34"	400 lb.
875	55"	21.5"	34"	400 lb.

**Software**

**Operating System**

800 Series ARIX-OS is a high performance operating system that is fully compatible with UNIX System V. Users have access to standard UNIX compatibility and productivity tools and enhanced multiuser/multi-program operational capabilities. Features include distributed processing (multiprocessing) among multiple Arix system Application Processors; 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; and administrative tools.

**Communications**

Arix offers several communications packages for the Series 800.

- The X.25 Communications Driver Package permits connection to public and private X.25 networks via a communications controller synchronous port.
- The 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) is a local area network-based server solution providing specific resource sharing services and interoperable connectivity with IBM and compatible PCs.
- MacLine permits an Apple Macintosh computer to communicate with an ARIX system via an asynchronous communication link. When connected the Macintosh appears as a terminal to the ARIX UNIX-based operating system.

**Other Software**

Arix offers a wide selection of UNIX-based applications including office automation and general business programs.

**Sample Configuration Pricing**

Sample Arix Series 800 configurations, including prices, are outlined below.

**Entry-Level System: 825 16-User (PS-0825-25)**

Description	Product ID	Price (\$)
CPU	25MHz	34,000
Main Memory	8M bytes	Included
Console	—	—
I/O Ports	5	—
Disk Controller	SCSI	—
Disk Drive	380M bytes	Included
Tape Controller	—	—
Tape Drive	QIC-02 150M bytes	Included
Workstation Controller	—	—
Printer	—	—
Workstation Display	—	—
Total Hardware	—	34,000
Monthly Maintenance	—	229
Operating System	Arix-OS V.3	1,900
Languages	Cobol/2 Object	6,945
DBMS	Universe	6,855
Total	—	49,700

**Intermediate-Level System: 850 32-User  
 System (PS-0850-16)**

Description	Product ID	Price (\$)
CPU	25MHz	68,000
Main Memory	8M bytes	Included
Console	—	—
I/O Ports	13	Included
Disk Controller	SMD	—
Disk Drive	824M bytes	Included
Tape Controller	—	—
Tape Drive	150M bytes	Included
Workstation Controller	—	—
Printer	—	—
Workstation Display	—	—
Total Hardware	—	68,000
Monthly Maintenance	—	260
Operating System	Arix-OS V.3	1,900
Languages	Cobol/2 Object	6,945
DBMS	Universe	6,855
<b>Total</b>	<b>—</b>	<b>83,700</b>

**Large System: 875 32-User System  
 (PS-0875-16)**

Description	Product ID	Price (\$)
CPU	25MHz	75,500
Main Memory	8M bytes	Included
Console	—	—
I/O Ports	13	Included
Disk Controller	SMD	—
Disk Drive	824M bytes	Included
Tape Controller	—	—
Tape Drive	Half inch	Included
Workstation Controller	—	—
Printer	—	—
Workstation Display	—	—
Total Hardware	—	75,500
Monthly Maintenance	—	461
Operating System	Arix-OS V.3	1,900
Languages	Cobol/2 Object	6,945
DBMS	Universe	6,855
<b>Total</b>	<b>—</b>	<b>91,200</b>