

POINT 4's MARK 9: TOP-OF-THE-LINE CAPACITY WITH TOP-OF-THE-LINE PERFORMANCE

POINT 4 Data Corporation's MARK 9 represents the ultimate in capacity and performance in the MARK series of multi-user computer systems. It offers the highest in performance characteristics, along with a selection of configuration options, to more perfectly match complex business needs.

The MARK 9 is the top-of-the-line in POINT 4's MARK series of compatible multi-user business computers. The product line

extends from the MARK 2T, a compact, entry-level model that supports up to seven users, to the MARK 9 with its high capacity and fast response time for over 64 concurrent users.

MARK 9 FEATURES

- High-speed, 16-bit central processor with 300 nanosecond cycle time
- Microprogrammed, industry-standard instruction set with extensions

- Up to 512K bytes of on-board EDAC memory
- Three selectable operational modes for flexibility
 - MARK 5 mode for increased logical address space
 - MARK 8 mode for use of extended instruction set
 - NOVA* 3 mode allows NOVA 3 compatible operating systems to operate on the MARK 9
- Most instructions executed in a single cycle
- Hardware multiply/divide
- IRIS* and BLIS/COBOL operating system support
- CPU and memory on single 15 x 15 inch board
- Extended warranty
- Built-in, self-test diagnostics
- Configuration versatility
 - Industry-standard peripherals
 - High-speed DMA multiplexers
 - Powerful LOTUS disk cache memory

OUTSTANDING PERFORMANCE

High power for high performance and increased throughput makes POINT 4's MARK 9 an outstanding computer. Its high-speed, 16-bit central processor has a 300 nanosecond cycle time, making it among the fastest of computers in its class. The entire central processing unit (CPU) is controlled by a patented microprogrammed sequencer that facilitates high-speed operation. This speed, plus the system architecture which enables most instructions to be executed in a single cycle, is the foundation of the MARK 9's powerful multi-user support capabilities. Standard system features such as hardware multiply/divide further enhance system speed.

The MARK 9 is available with up to 512K bytes of memory and



The above system represents an expanded MARK 9 configuration.

MULTI-USER SYSTEMS DESIGNED WITH YOUR NEEDS IN MIND

can support over 64 concurrent time-sharing users, maintaining rapid response at each user's workstation. By using on-board memory, the MARK 9 achieves both high speed and high reliability. The MARK 9 provides the heart of a cost-effective system for multi-terminal support.

ECONOMY

The MARK 9 has been developed with the latest in high-technology advancements in order to produce the very best computer system for the price. When compared on a per-user cost, the MARK 9 is one of the lowest-priced computers available. When combined with POINT 4's economical video display workstations, it makes sound business sense to distribute the power of the MARK 9 to as many users as needed.

FLEXIBILITY

The MARK 9 has been designed to support a wide selection of peripheral devices and controllers. POINT 4's high-speed DMA multiplexer, LOTUS Cache Memory,* video display terminals, disks and controllers can be integrated with the MARK 9 CPU to form a complete business computer system with a broad range of configuration options. The result is a system tailored more precisely to the user's needs and his budget.

The MARK 9's flexibility is further demonstrated by its operational modes. In its two MARK series modes, the CPU provides a minimum 25% performance improvement over other POINT 4 models. In NOVA 3 mode, the MARK 9 represents a powerful and economical direct upgrade to a broad range of industry-standard computer systems.

*NOVA is a registered trademark of Data General Corporation.

*IRIS and LOTUS Cache Memory are trademarks of POINT 4 Data Corporation.

HIGH-PERFORMANCE OPERATING SYSTEM

The MARK 9 is supported by POINT 4's Interactive Real-time Information System, IRIS. IRIS is a high-performance, time-sharing operating system capable of supporting a large number of concurrent users with rapid response. Application software is written in Business BASIC and makes use of the powerful IRIS file structures designed for business needs. Business BASIC is a commercial dialect of BASIC, one of the most popular programming languages in existence today. And IRIS' multi-key indexed file management facilities provide the ability to access vital business data according to a variety of needs. IRIS is used in over 19,000 installations worldwide and offers a wide range of business applications from which to choose and the tools to readily implement one's own.

IRIS and Business BASIC form the operating environment for all of POINT 4's MARK series. The operating software provides the commonality which allows the user to advance from the entry-level MARK 2T to the top-of-the-line MARK 9. And they help protect the user's investment in software by enabling the upgrade from model to model without reprogramming.

CPU SPECIFICATIONS

Word Length:

16-bits

Cycle Time:

300 nanoseconds

Microprogram Cycle Time:

75-200 nanoseconds

Memory:

256K bytes, optional to

512K bytes

CONFIGURATIONS

The MARK 9 is available in a wide range of configurations, from board-level components to complete, packaged systems.

A complete entry-level system includes:

- MARK 9 with 256K bytes RAM, extended instruction set
- 7-slot chassis and power supply
- Extended warranty
- 35M byte 8-inch Winchester disk drive and controller
- 20M byte 1/4-inch streaming tape drive and controller
- 8-port DMA multiplexer
- 30-inch, desktop-height cabinet
- License for IRIS Operating System

POINT 4: RESPONSIVE TO OUR CUSTOMERS' NEEDS

At POINT 4 Data Corporation, our business is multi-user systems with a personal touch. We design and manufacture computer systems, distribute them through a worldwide network of value-added resellers and support those resellers with personal service.

POINT 4 computer systems are flexible, cost-efficient, expandable and upward compatible. And we're working for the future, developing new and better products and planning more and better ways to support our customers.

The materials contained herein are intended for general information. Details and specifications concerning the use and operation of POINT 4 Data Corporation's equipment and software are contained in the applicable technical manuals, available through local sales representatives.



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