



## NEWS FROM NCR

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### **NCR ANNOUNCES 80386-BASED PC**

#### **Features High-Performance Design With Multiple Disk Options**

NEW YORK, NY, May 27, 1987 -- A high-performance, 32-bit PC based on the Intel<sup>R</sup> 80386-16 microprocessor was introduced today by NCR Corporation as part of a family of new personal computer products. The company said the NCR PC916 can execute three to four million instructions per second (MIPS) and processes information as much as two and a half to three times faster than the previous generation of 80286-based, AT-compatible PC's.

The NCR PC916 is distinctive in that it accepts a combination of integrated 5-1/4 inch flex drives and the smaller, increasingly popular 3-1/2 inch type. The system also runs at selectable speeds up to 16 megahertz.

NCR said the PC916 is industry compatible and can be used as a high-performance workstation, departmental network server or communications gateway processor. The company introduced the product along with two other new personal computers and an array of communications products, including a communications workstation, at a press conference here.

"This product reflects our continued leadership in open architecture and incremental workstations," said Vernon W. Yates, vice president, NCR Corporation, and general manager of NCR's Personal Computer Division.

According to Yates, all of the products announced today utilize NCR's Incremental Workstation Architecture which is designed to allow users to access the large base of existing software already in the marketplace, while providing a means to incorporate emerging technologies and standards.

Yates also said the PC916 employs an advanced system design that speeds memory access and processing. The design is an enhanced version of NCR's functionally modular or "split-card" architecture, isolating the 80386 processor and the primary memory on separate expansion card-sized boards. The two boards, which occupy two slots in the system's eight-slot bus, are directly connected by a 32-bit extender bus. Direct, 32-bit access between the processor and the memory enhances the overall system performance.

The PC916 can retrieve information from random access memory (RAM) eight to ten percent faster than many other 80386-based PC's, Yates said, because the companion memory board uses an "interleaved" memory scheme. In this process, consecutive data bytes are stored in alternating memory blocks rather than serially in a single block.

Two operating modes of the PC916's 80386-16 microchip optimize the system's processing speed and provide AT-compatibility. A high speed mode maintains the processor at a constant 16MHz, while a switchable "auto" mode adjusts to the speed required for specific compatibility modes.

The processor board includes a math coprocessor socket that can accept either an Intel™ 80387 or a less costly 80287 math coprocessor.

The companion memory board comes with 2MB of high-speed, 70 nanosecond (nS) dynamic RAM chips. The PC916 supports 268MB of physical memory and four gigabytes of virtual memory. Memory can be expanded by installing additional memory boards and connecting them to the 32-bit extender bus. NCR currently offers 2MB expansion boards. Boards with 8MB of memory are scheduled to be available later in the year, Yates said.

Standard 16-bit, AT-compatible memory expansion boards can also run in the PC916 and do not have to be connected to the system's extender bus.

A third board in the PC916's Incremental Workstation Architecture is NCR's multifunction Personality Card™ that provides the PC916's video adapter, disk drive controllers and serial and parallel ports. This board also occupies a 16-bit slot on the PC916's system bus.

Yates said the Personality Card, by combining several functions through very large scale integration (VLSI) technology, frees up to three slots normally occupied by individual expansion boards. The PC916 provides up to five free slots.

Fixed disks are available in full-height 30MB, 44MB, 70MB and 115MB capacities. The PC916 accommodates five half-height drives or up to two full-height drives, allowing a maximum storage capacity of 230MB. A half-height 1.44MB, 3-1/2 inch flex drive and an integrated 60MB streaming tape back-up unit are also available from NCR.

The PC916 also features a 220-watt power supply that can switch from 115 volts AC to 230 volts AC, and a keylock. Users can choose either the Standard Keyboard with 10 function keys, the Workstation Keyboard with 12 function keys or the Advanced Keyboard with 30 function keys.

The basic model PC916, which includes an 80386-16 processor board, a companion memory board with 2MB of 70nS RAM, a Personality Card with an Enhanced Graphics Adapter (EGA), a 1.2MB flex drive, a 30MB fixed drive, a clock/timer with battery, the NCR DOS 3.2 operating system, and NCR User Interface and Help facility has a suggested list price of \$6,353.



A similar model including a 44MB fixed drive lists for \$6,553. The unit with a 70MB fixed drive lists for \$7,553 while the 115MB fixed drive model is \$8,653. All models include the Enhanced Graphics Adapter.

Other models, including one with a 3-1/2 inch, 1.44MB flex drive, were announced as well and are comparably priced. All models are scheduled to be available in the fourth quarter.

NCR Corporation, with headquarters in Dayton, Ohio, develops, manufactures, markets and services business information systems for worldwide markets.

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Intel is a registered trademark of Intel Corporation. Personality Card is a trademark of NCR Corporation.

NOTE: All prices are NCR's suggested list prices. Retail prices may vary.