



Immediate Release

News Release

Processors/Displays

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IBM'S PERSONAL SYSTEM/2 FAMILY FEATURES FOUR HIGH-PERFORMANCE SYSTEMS

RYE BROOK, N.Y., April 2 . . . The IBM Personal System/2TM family features four new systems -- Models 30, 50, 60 and 80 -- in a range of eight configurations providing customers with a variety of performance, memory and storage options.

IBM Personal System/2 satisfies a wide range of computing needs -- from single application to multitasking, from stand-alone jobs to sharing resources with other users, and from single stand-alone systems to large networked environments. The new family preserves customer investments in programs, since it is compatible with most current IBM Personal Computer applications.

"This new family of systems is positioned to take advantage of emerging technologies and meet our customers' future requirements," said William C. Lowe, IBM vice president and president, Entry Systems Division.

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All models share a broad base of advanced packaging and chip technology from IBM's development laboratories. Tiny IBM-designed chips replace many larger and less powerful components found in previous personal computing equipment.

The use of Very Large Scale Integration (VLSI) chips and surface mount technology reduces power requirements; increases system reliability; makes it easier to use and service; and provides high quality, advanced function capabilities.

Integrated on the system board and standard on all systems are the diskette controller, parallel, serial and pointing device ports, keyboard and memory functions, as well as new color and monochrome graphics capabilities.

In addition, the new systems eliminate system setup switches, while a new system board design accommodates up to a sixfold increase in the maximum amount of easily installable memory in some models. The system power supply is capable of adjusting to voltages in foreign countries.

Powerful New Graphics

IBM Personal System/2 incorporates enhanced integrated graphics functions including significantly improved text, expanded colors with up to 256 out of a palette of more than 256,000, and sharper business graphics.

3.5-Inch Diskettes

The Personal System/2 family uses the more durable and reliable 3.5-inch diskettes instead of the 5.25-inch diskettes. These economical diskettes store from two to four times more data than the 5.25-inch 360 kilobyte (KB) diskette. Converting stored information from a 5.25-inch format to a 3.5-inch format is easily accomplished through several options announced today.

IBM Personal System/2 Model 30

The Model 30, an Intel 8-megahertz (MHz) 8086-based system, processes information up to 2 1/2 times as fast as the IBM Personal Computer XTTM. In addition to the standard features built onto the system board, the Model 30 system board also contains 640KB RAM memory and enhanced graphics support called MultiColor Graphics Array (MCGA). Three general purpose expansion slots are available.

The Model 30 is available in two configurations: one has two 720KB diskette drives, while the other has one 720KB diskette drive and a 20-megabyte (MB) fixed disk drive. An 8087 math coprocessor that runs at the same 8 MHz rate as the 8086 is available.

The Model 30 is designed for a broad range of customer needs -- word processing, spreadsheet and other business applications. It can be used in entry-level stand-alone, network and host-connected environments. Its compact design, 17-pound weight and low cost make it attractive to a wide variety of customers.

Model 30 is available immediately.

Model 30-002 (2 diskette drives)	\$1,695
Model 30-021 (1 diskette/1 fixed disk)	\$2,295

New Advanced Architecture

Models 50, 60 and 80 feature a new IBM-designed Micro ChannelTM architecture that contributes to an increase in processing power of up to 2 to 3 1/2 times the IBM Personal Computer AT^R. The new architecture was designed to meet the growing demands of customers today, while providing them with the flexibility they need for future growth.

Micro Channel architecture enables up to 32 bits of data -- twice the capacity of some IBM Personal Computers -- to flow to and from the processor. The new Micro Channel handles more data and synchronizes the entry and exit of the data so users can perform several tasks at once without sacrificing efficiency.

New Advanced Graphics

The Models 50, 60 and 80 Video Graphics Array (VGA) supports 640 x 480 x 16 colors in graphics mode and 720 x 400 x 16 colors (9 x 16 character box) in text mode. It will also support the new 320 x 200 x 256 color mode. With the addition of the new advanced graphics feature, 1024 x 768 addressability also can be obtained.

IBM Personal System/2 Model 50

The Model 50, an Intel 10 MHz 80286-based desktop system, provides customers with 1MB of RAM memory, which is expandable up to 7MB; a 20MB fixed disk drive and one 3.5-inch, 1.44MB diskette drive (a second diskette drive may be added). Three 16-bit general purpose expansion slots are available.

The compact Model 50 can be installed in a drawer space of a desk, and is ideally suited for customers requiring sophisticated connectivity applications. It can process information up to twice as fast as the IBM Personal Computer AT.

The Model 50-021 is available immediately and costs \$3,595.

IBM Personal System/2 Model 60

The Model 60, also an Intel 10 MHz 80286-based system, is a floor-standing system available in two configurations. One configuration comes with a 44MB fixed disk drive (a second 44MB fixed disk drive may be added). The second configuration has a 70MB fixed disk drive (and can be expanded with a second 70MB or a 115MB disk drive).

Both configurations feature 1MB of memory, expandable up to 15MB; and one 3.5-inch, 1.44MB disk. Seven 16-bit general purpose expansion slots are available. The configuration featuring the 44MB fixed disk drive is available immediately. The 70MB fixed disk drive version is scheduled for availability in the second quarter.

Model 60-041	(44MB fixed disk drive)	\$5,295
Model 60-071	(70MB fixed disk drive)	\$6,295

IBM Personal System/2 Model 80

The IBM Personal System/2 Model 80 -- the most powerful member of the family -- contains an Intel 80386-based micro-processor. It is a floor-standing machine available in three configurations. The Model 80 provides customers with the high performance required to function in multiuser and network environments. It operates up to 3 1/2 times faster than the powerful IBM Personal Computer AT, and comes standard with 1MB or 2MB of memory (depending on the configuration) -- expandable up to 16MB. Seven expansion slots are available to accommodate options: three 32-bit and four 16-bit slots. Like all Personal System/2 models, this machine features an optional math coprocessor.

The Model 80 is ideal for customers who are solving complex mathematical, scientific and engineering problems, as well as those engaged in image processing. In addition, its high performance can be harnessed to handle demanding business applications. The versatile Model 80 also can be used as a file server in a network environment.

One configuration of the Model 80, which is scheduled for availability in July, runs at 16 MHz, contains 1MB of memory and features a 44MB fixed disk drive (a second 44MB fixed disk drive may be added).

A second Model 80 configuration, also scheduled for July availability, runs at 16 MHz and has 2MB of memory and a 70MB fixed disk drive (a second 70MB or a 115MB fixed disk drive may be added).

The third Model 80 runs at 20 MHz and features 2MB of memory and a 115MB fixed disk drive. A 70MB or a second 115MB fixed disk drive may be added for a maximum capacity of 230MB. This powerful 20 MHz system, scheduled for availability in the fourth quarter, also features IBM-designed one-megabit memory technology.

Model 80-041 (1MB Memory/44MB fixed disk drive)	\$ 6,995
Model 80-071 (2MB Memory/70MB fixed disk drive)	\$ 8,495
Model 8580-111 (2MB Memory/115MB fixed disk drive)	\$10,995

New Family of IBM Analog Displays

IBM also announced one new monochrome and three color displays.

The new displays provide high quality, enhanced clarity and text in either monochrome or color. Monochrome display users can select from either black-on-white or white-on-black background. Through a new facility called "color summing," colors for programs written for a color display will be shown in gray shades selected from a palette of 64 shades of gray.

The displays provide high-quality text and sharp business graphics, while providing users the ability to reproduce realistic images on the display screen.

The new displays also feature ergonomic improvements, sharper character definition, reduced flicker and non-glare screens. The new displays and graphics adapters are fully compatible with current IBM Color Graphics Adapter (CGA) and Enhanced Graphics Adapter (EGA) graphics modes.

Single unit prices for the new IBM displays are:

The IBM Personal System/2 Color Display Model 8512, a 14-inch color display - \$595

The IBM Personal System/2 Color Display Model 8513, a 12-inch finer resolution color display - \$685

IBM Personal System/2 Color Display Model 8514, a 16-inch high-addressability color display - \$1,550

The IBM Personal System/2 Monochrome Display Model 8503, a 12-inch monochrome display - \$250

The new displays are available immediately, with the exception of the IBM Personal System/2 Color Display Model 8514, scheduled for June availability.

IBM 5.25-Inch 360KB External Diskette Drive

Several products will enable IBM customers to exchange data from their 5.25-inch-based IBM Personal Computer to the new 3.5-inch-based system.

The IBM Personal System/2 3.5-Inch External Diskette Drive, as well as the compatible internal drive available on some models of the IBM Personal Computer AT and the IBM Personal Computer XT -- both available immediately -- allow users to exchange information with the IBM Personal System/2. The IBM Personal System/2 5.25-Inch External Diskette Drive, scheduled to be available in May, makes it possible for the new systems to use 5.25-inch-based software programs not restricted by licensing or copyright provisions. The IBM Data Migration Facility, available immediately, uses an existing standard printer cable to transfer data from an IBM Personal Computer, IBM Personal Computer XT or IBM Personal Computer AT to the new Personal System/2.

3.5-Inch External Diskette Drive	\$395
3.5-Inch Internal Diskette Drive	\$170
5.25-Inch External Diskette Drive	\$335
IBM Data Migration Facility	\$33

The IBM 3363 Optical Disk Drive

This option increases storage capacity available to IBM's new systems by at least 200MB, or more than 550 times the capacity of the industry standard 360KB diskette. This device, scheduled for availability in the third quarter, is an internal option for Models 60 and 80, and an external option for Models 30 and 50. It can also be used on most IBM Personal Computer XT and AT models.

Customers may use the small removable write-once, read-many-times disks to store and easily retrieve large amounts of data, such as sets of technical manuals, catalogs or company historical documents. It also provides a convenient save/restore facility for large fixed disks.

The IBM 3363 Optical Disk Drive Model A01 is scheduled for availability in the second quarter and costs \$2,950; Model A11, which also costs \$2,950, is scheduled for availability in the third quarter.

Product Availability

All products are available through IBM Authorized Advanced Products Dealers, IBM Authorized Advanced Products Value Added Dealers and IBM's North-Central and South-West Marketing divisions. The Personal System/2 Model 30 is also available through Authorized IBM Personal Computer Dealers and IBM Authorized Value Added Dealers. Dealer prices may vary.

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