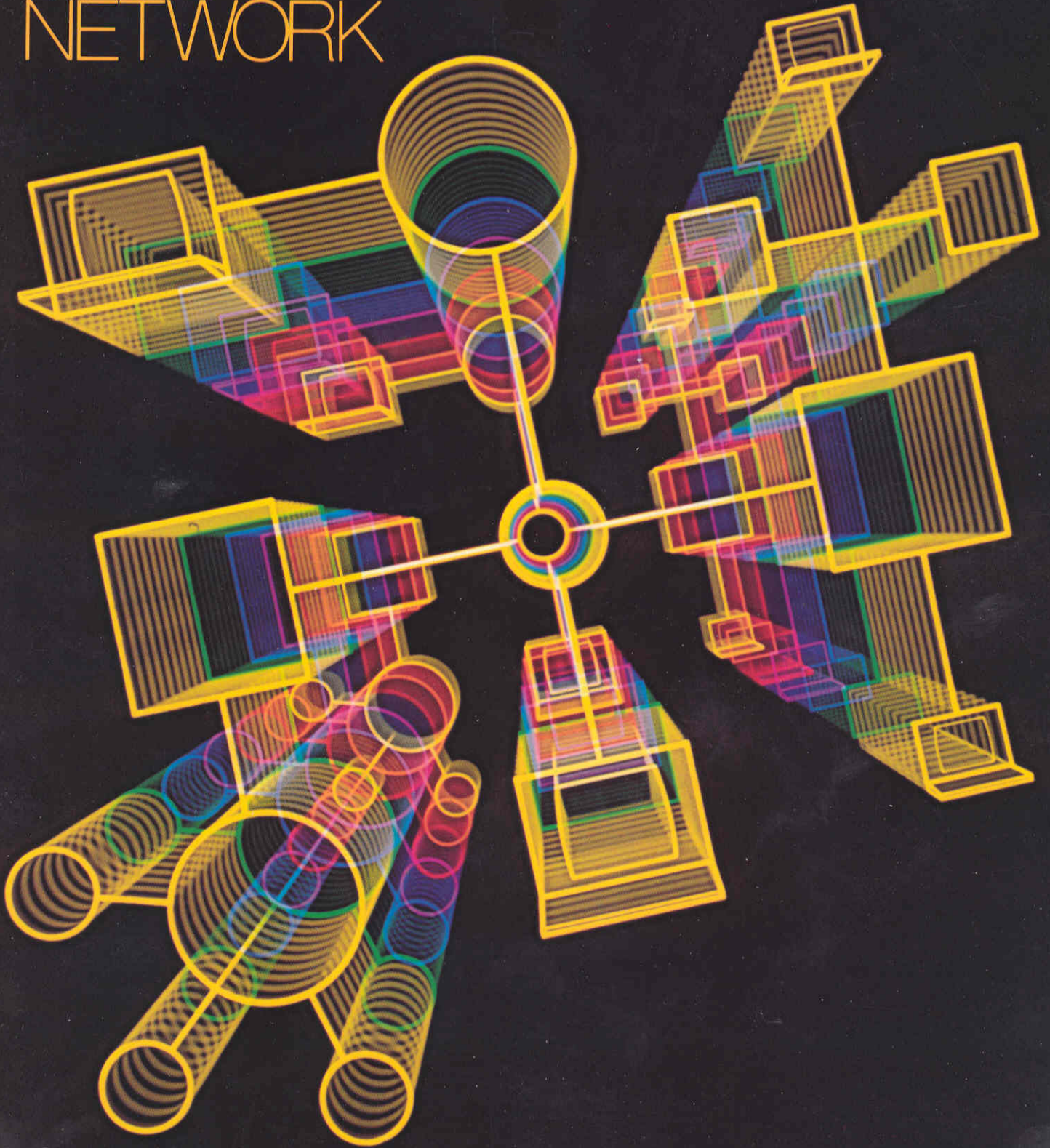


The Core Memory Project

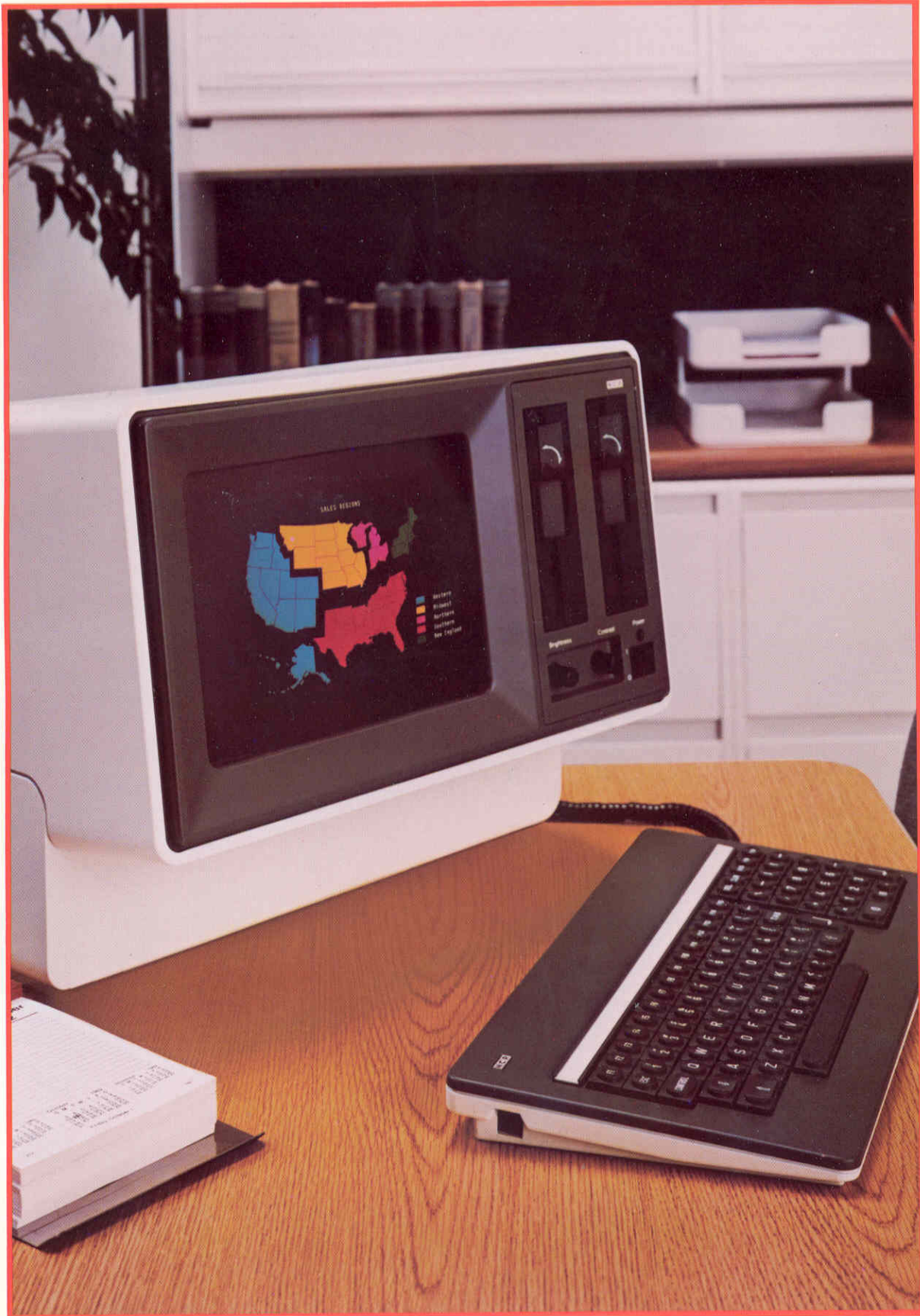
NCR DECISION MATE V NETWORK

NCR



<http://www.thecorememory.com>

The Core Memory Project



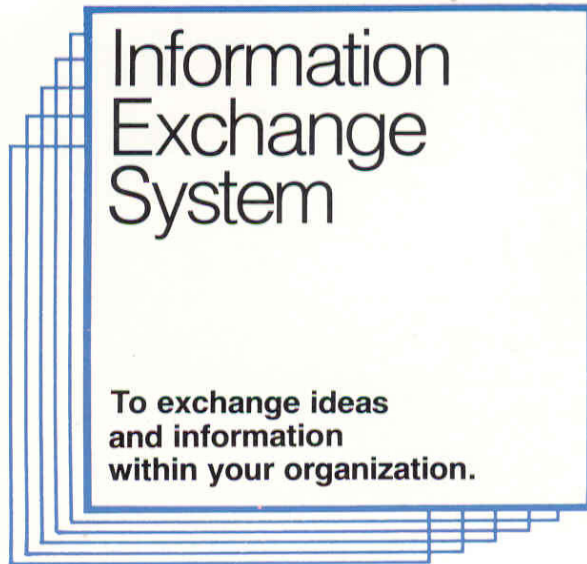


Now that the personal computer has moved into the office, everyone has become involved with data processing to some extent. It just makes good business sense. These systems are versatile, compact, and easy to use. Most important, they allow each person to process and store information where and when it is convenient. As a result, the personal business computer is becoming a standard piece of office equipment.

But installing personal computers at every workstation will not eliminate your company's need for central data processing and a centrally located data base. No matter how friendly or how convenient these small professional computers become, they will not provide, by themselves, the storage capacity or processing power of large mainframes and high-speed peripherals. Personal computer users tediously build their own floppy disk libraries, and add disk units or other peripherals to their system as needed. Neither of these alternatives is very practical or cost-effective.

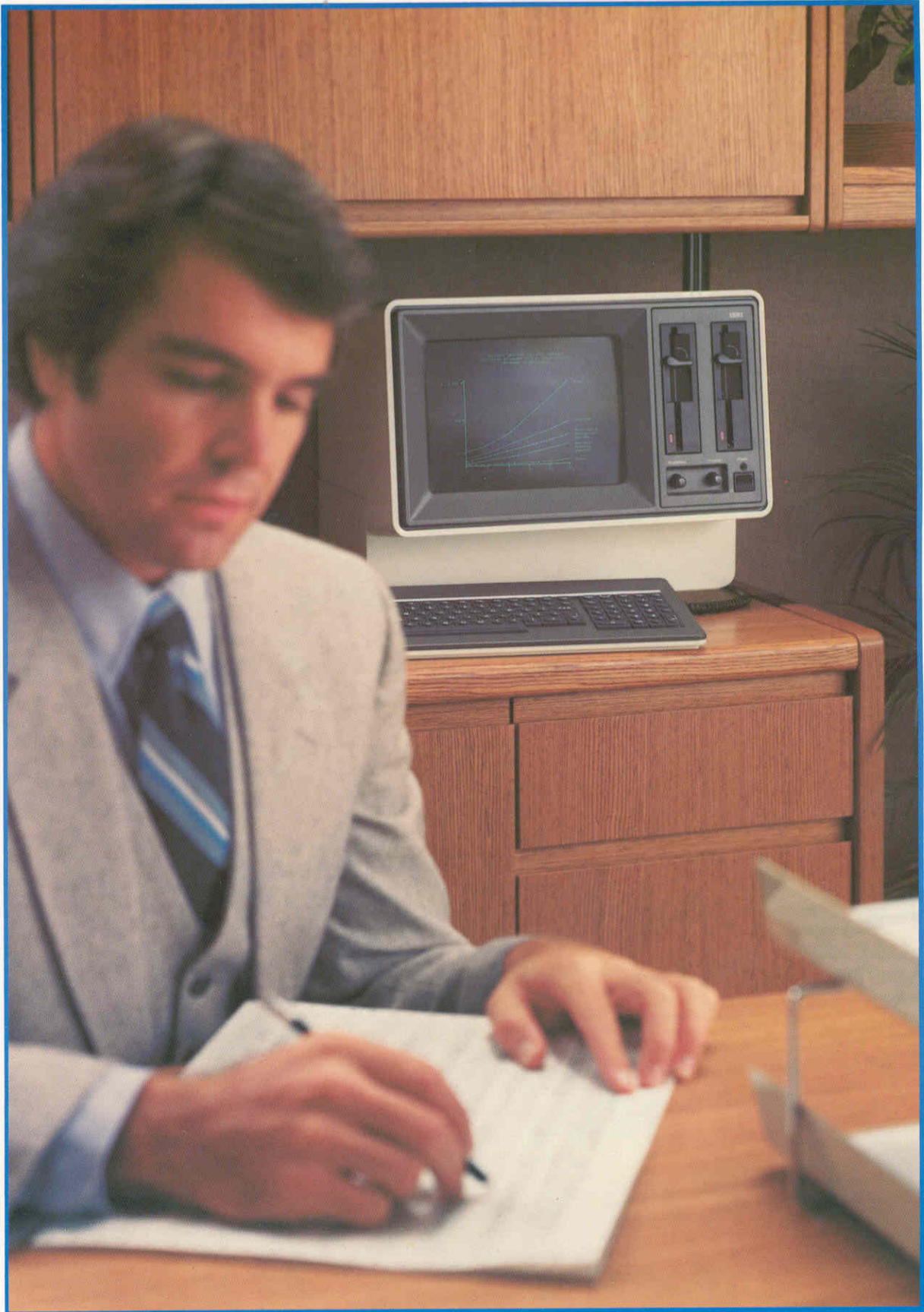
In addition, a stand-alone personal computer, by itself, does not really support the normal workflow of a business environment. Companies thrive on the exchange of ideas and the interchange of data. Most information processed by a business computer is eventually delivered to, reviewed by, or shared with someone. Yet, when it comes time to share your data, the standalone computer makes *you* do the leg work.

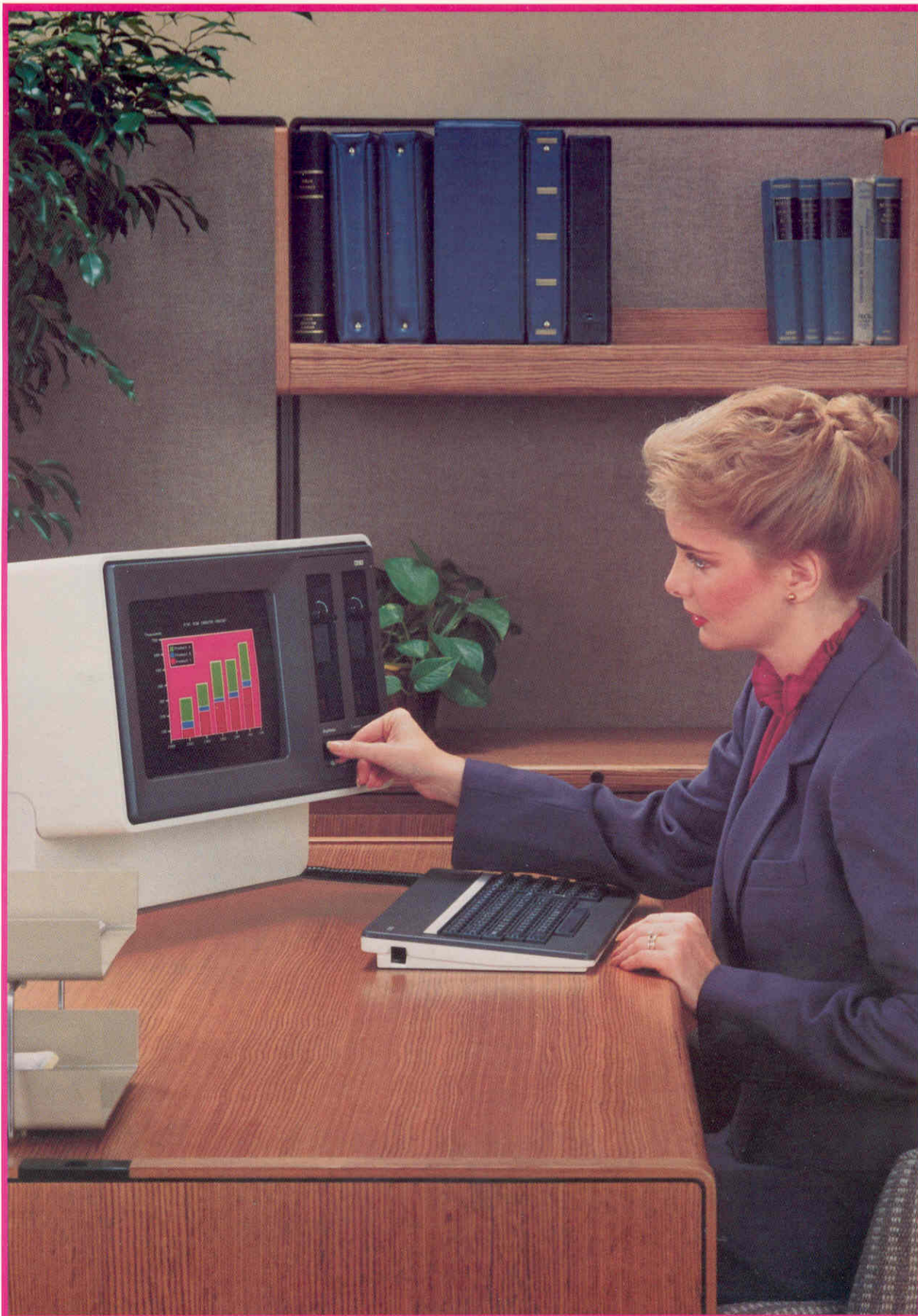
To help bridge this communication gap, NCR offers you *more* than just another personal computer. We bring you an efficient information exchange system with expandable storage and peripheral access for everyone.

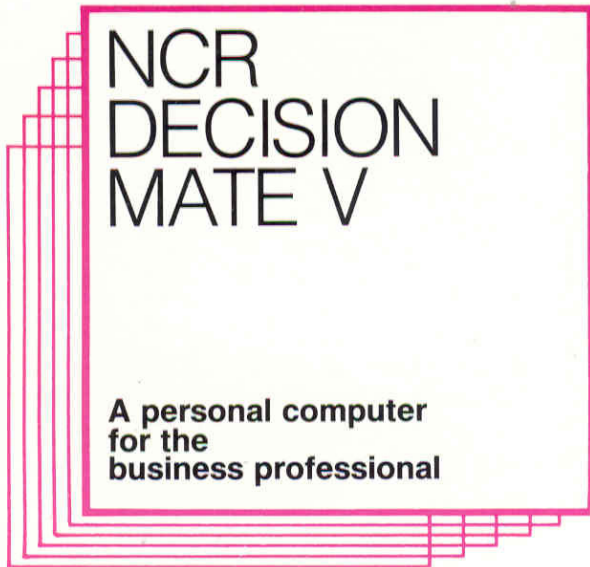


NCR DECISION MATE V is a state-of-the-art personal computer especially designed for the business environment. It offers you all the convenience, security and performance you expect from a personal computer, plus expandable storage and information exchange capabilities that are unsurpassed in the computer industry.

NCR DECISION MATE V is easily installed, easy to use, and complements any office environment. In addition, NCR DECISION MATE V can be connected to NCR DECISION NET, an interactive local area network which provides access to centrally stored files and allows you to share peripherals. Each NCR DECISION MATE V linked to NCR DECISION NET still maintains its own file security and full computing power for local processing and data storage. At the same time, each unit is able to share information with others and use centralized mass storage devices. NCR DECISION MATE V combined with NCR DECISION NET gives you all the advantages of a personal computer, solves your file storage problems, and provides an efficient communications system for your entire organization.







NCR DECISION MATE V is a personal computer designed for the professional. The unit features an 8/16-bit dual processor. An 8-bit model is also available which can be easily upgraded to a dual processor. NCR DECISION MATE V comes with dual 5¼ flex disk drives, and has a 64-KB memory which expands to 512 KB.

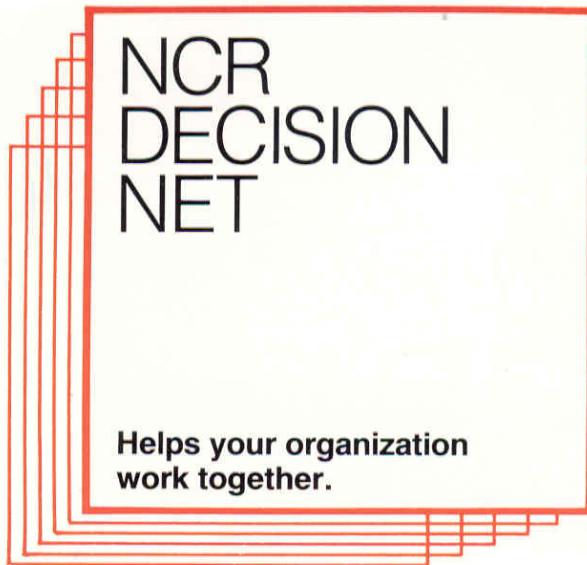
The latest concepts in ergonomics have been applied to create a brilliantly styled system that conforms to the way people work and the office environments they work in. Its 12-inch, high-resolution screen displays monochrome or color images of the finest quality. Both the video display and processing unit are housed in the same cabinet. The cabinet's base features a small footprint, adding to the unit's overall compact styling. The detached, low-profile keyboard

includes a numeric keypad, an alpha-numeric typewriter keypad, 20 programmable function keys, a joystick connector, and selection switches for major national languages.

NCR DECISION MATE V uses the CP/M-80® operating system for its 8-bit processor. The dual 8/16-bit processor can use either CP/M-80®, CP/M-86® or MS-DOS®. These industry standard operating systems support the more popular programming languages, such as BASIC, COBOL, and PASCAL. They also enable you to select from a long list of application software available from NCR and other software distributors. Application packages include everything from color business graphics to financial planning and word processing programs.

NCR DECISION MATE V also features easy to install external adapters for connecting printers, memory modules, and communication lines, such as NCR Omninet™, and RS-232 asynchronous links. There is no need to remove any part of the cabinet. In fact, you don't even need a screw driver. When the time comes to expand your processing power, NCR offers an integrated 5¼-inch Winchester disk which fits into the NCR DECISION MATE V console.

NCR DECISION MATE V offers all the processing power, versatility, security and expandability that is demanded of a personal computer in today's dynamic business environment.



NCR DECISION NET ties your personal computers together into an efficient information network. The NCR DECISION NET system comprises two major components, the NCR Omninet™ local area network and the NCR MODUS file sharer.

NCR Omninet™

NCR Omninet™ allows you to combine your NCR DECISION MATE V's (and other personal computers) into an interactive information exchange system. This popular local area network connects up to 64 workstations (up to 16 can be simultaneously operable) on a communications line up to 4,000 feet long. The system is inexpensive to install, easy to connect, and has no elaborate maintenance requirements.

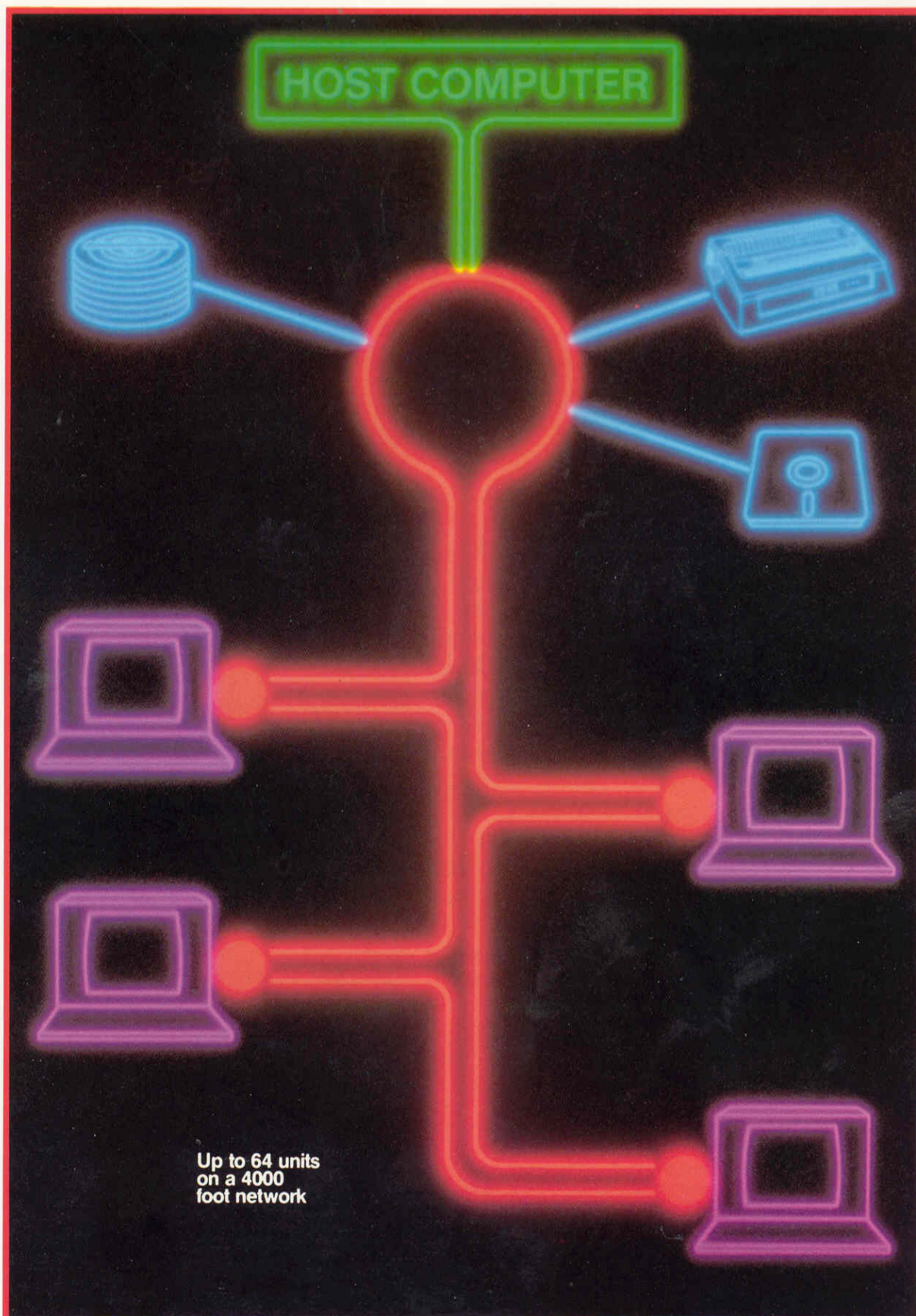
NCR Omninet™ uses compact transporter boards with their own microprocessors to connect devices to the network. The transporter performs

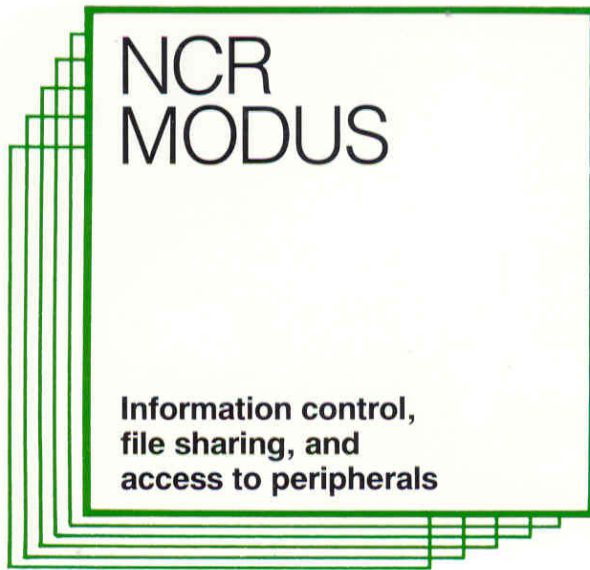
many of the high level network tasks usually handled by a host computer. These tasks include message acknowledgment and the detection of errors and duplicate messages. This feature greatly reduces the software burden on MODUS and the personal computers using the network.

Network Control

NCR Omninet™ is a peer-level local area network, which means all devices have equal control of the network. A Carrier-Sense Multiple-Access mechanism (CSMA) keeps all devices informed of when the network is available. Control is then assumed by the device that has a message to send at that time. NCR Omninet™ also has a collision avoidance scheme in which each transporter computes its own random transmit start time. This scheme minimizes the probability of two devices trying to access the network simultaneously, greatly reducing data collisions and message delays. It also ensures that each message reaches its destination without error. Even under extremely heavy load conditions, when a collision occurs both messages are backed off and automatically re-entered. The entire event takes a few milliseconds and usually goes unnoticed by network users.

NCR Omninet™ gives the business professional the means to exchange information with any or all devices on the network. It provides electronic mail capabilities and user-to-user interaction. In conjunction with MODUS, it also allows the actual sharing of files and peripherals.





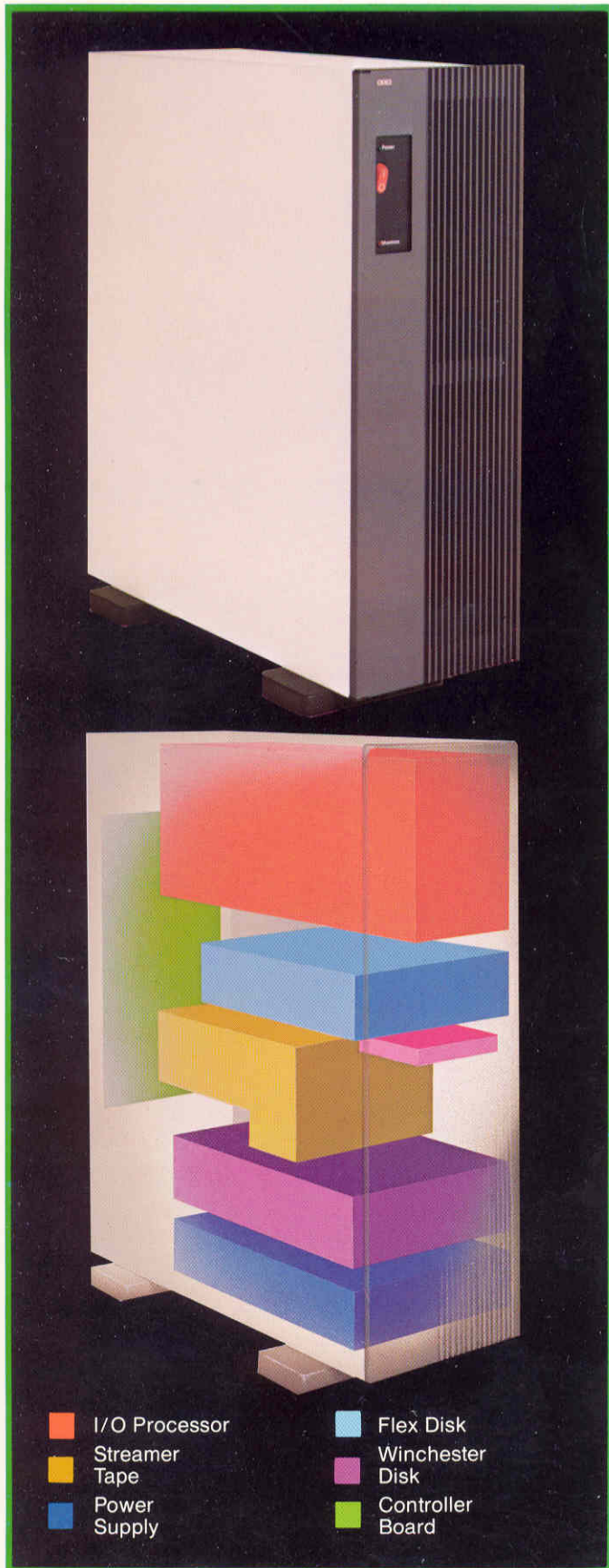
NCR MODUS is a highly intelligent input/output file manager which controls the use of centrally located files and high-speed peripherals. In a network environment NCR Omninet™ connects to MODUS to provide each personal computer user with access to centrally located files, mass storage devices and peripherals, such as high-speed printers and plotters. This means that personal computers in your organization can be given the peripheral power normally associated with large mainframes.

NCR MODUS maximizes system throughput for the network by using multiple I/O processors, cache memory, data management techniques, and controlware instructions. The combination of these features enables MODUS to support a high volume of online data processing and service.

NCR MODUS supports most of the I/O functions required for servicing and maintaining data, such as creating and deleting files, high-speed file backup, and automatic print file spooling. Because of its exceptional data handling capabilities, peripherals can be connected directly to MODUS, which enables NCR DECISION NET users to share a wide selection of peripherals. You only need to initiate a basic I/O function from your personal computer and MODUS takes care of the rest. It handles the internal file structures, special device characteristics, and the operation of attached devices.

Data Security in the File Sharing Environment

A major advantage of MODUS is that it allows many users to access the same file on a shared peripheral, provided they have the appropriate security clearance. NCR MODUS offers you three levels of system security: user I.D., password, and user number. This allows you to specify whether a file you created is public (for anybody's use) or private (for no one's use but yours). The integrity of shared data is also maintained during record updates through the use of record interlocks.



NCR MODUS is easy to install, operate and maintain. A flexible disk contains special installation control programs. To install MODUS, you simply insert the flexible disk and turn on the power. The configuration process is automatic. At start-of-day, when the system is turned on, the MODUS configuration is automatically established and start-up diagnostics are performed to check out the system. Should any problem occur, an extensive diagnostics package can be used to pinpoint the problem.

NCR MODUS is completely modular in design and can be configured to meet individual network requirements. It performs fast, efficient input/output functions for the network without requiring program modifications. MODUS makes NCR DECISION NET more than just another personal computer network. It provides a secure and cost-effective method of sharing files and peripherals for the entire system.

NCR Corporation hardware and software developers continually improve products as new technologies and components become available. NCR Corporation, therefore, reserves the right to change specifications without prior notice. In some instances, photographs are of equipment prototypes.

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CP/M-80® and CP/M-86® are registered trademarks of Digital Research.
MS-DOS® is a registered trademark of Microsoft Corporation.
Products for delivery in the USA will comply with appropriate FCC Rules.*

NCR DECISION MATE plus NCR DECISION NET

At last, the personal business computer system that you'll never outgrow

NCR DECISION NET gives you all the components you need for a completely interactive file sharing local area network. The combination of NCR DECISION MATE Vs with NCR DECISION NET will increase your company's productivity by letting you to develop, store, and share information effectively.

NCR DECISION MATE V offers:

- Customer installability
- Access to a wide variety of software
- Convenience
- High resolution display
- Low maintenance cost
- Access to a wide variety of peripherals
- Expandability

NCR DECISION NET offers:

- Access to centrally located data files maintained by a mainframe computer system
- Exchange of data files and programs among personal computer users
- Faster file access
- Simplified operating procedures for individual users
- Mass storage capacity for all users
- The sharing of expensive devices, such as plotters and high-speed printers.

