

The Core Memory Project

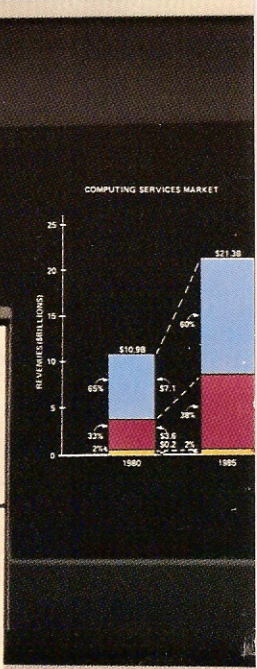
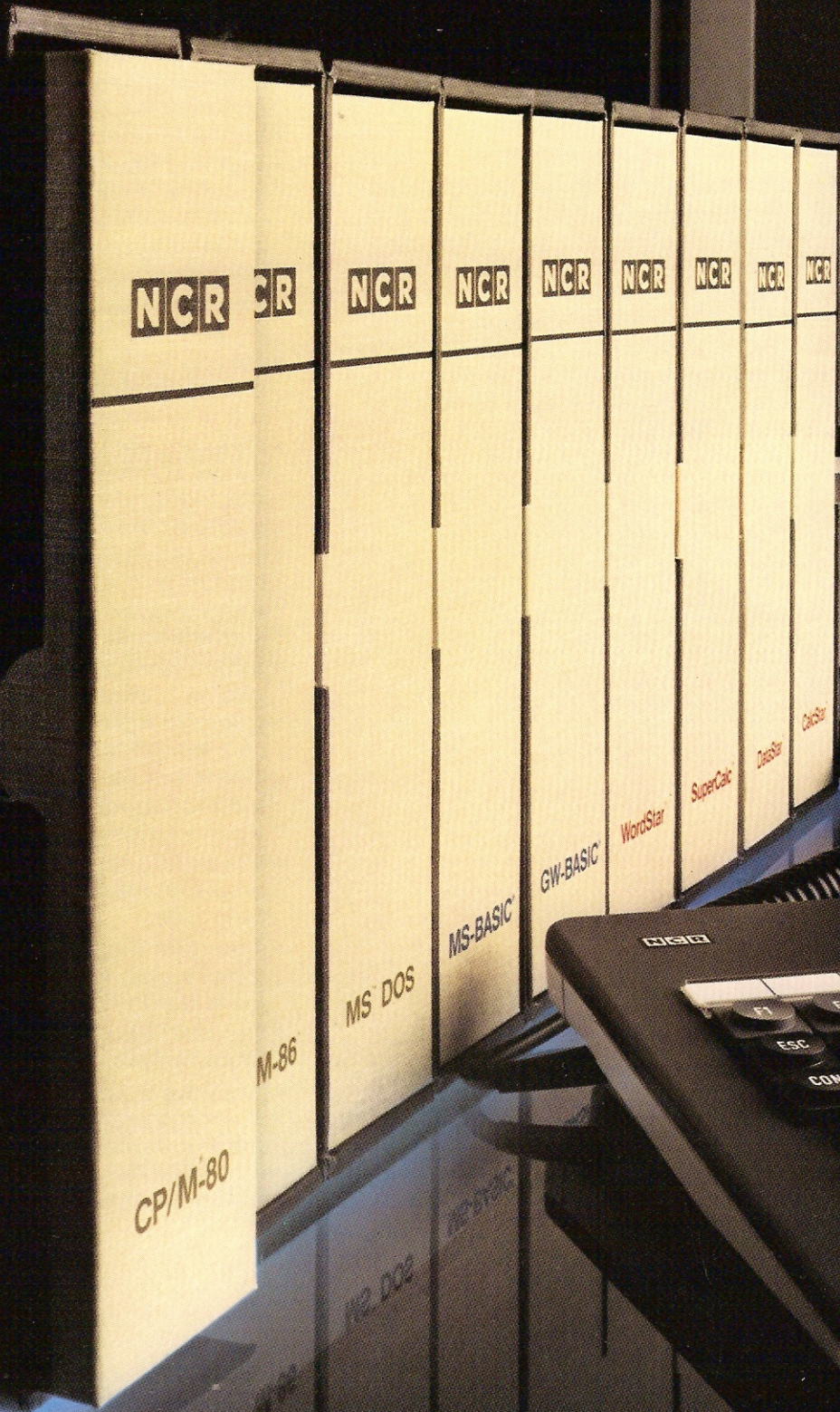
NCR DECISION MATE V

Software Library

CP/M-86[®]

NCR

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Software Library



CP/M-86[®] Operating System

CP/M-86 is the natural migration of the highly regarded CP/M-80[®] into a successful operating system for a 16-bit architecture. It's designed to take full advantage of the 16-bit structure and up to 512K-byte RAM of dual processing (Z-80A/8088) and still retain the user interface, operating performance, and compatibility characteristics of CP/M-80. In fact, utility and CP/M-80 compatibility are the cornerstones of CP/M-86's design.

Like CP/M-80, CP/M-86 is a single-user, single-tasking, high performance, microcomputer disk operating system. It is fast, reliable, "user friendly", and compatible with existing, field-proven software programs and packages. CP/M-86 consists of three functional modules, Basic Disk Operating System (BDOS), Basic Input/Output System (BIOS), and Console Command Processor (CCP), which provide an environment for program construction, storage, editing, assembly or compilation, debugging, and execution.

CP/M-86 Features

Among the features provided by CP/M-86 are:

- **CP/M-80 Compatibility** — CP/M-86 can read CP/M-80 data files if the disk density formats are the same; application programs can be easily converted to operate under CP/M-86; they also use a similar program interface and many of the same utility commands.
- **Dual Processor Hardware Support** — The dual processing environment uses both operating systems which simplifies the integration of 8- and 16-bit application software.
- **Relocatable Application Programs** — Application programs can reside anywhere in memory or on file and are very easy to relocate.
- **Memory Management** — Supports non-contiguous memory locations and allows multiple programs to reside in memory simultaneously.
- **Dynamic User Memory** — GENCMD utility creates file header information which is used by CP/M-86 to allocate memory for the program (eight independent program segments maximum) to be loaded.
- **Named File Structure Implemented On Each Disk** — File system is identical to the file system of CP/M-80; allows dynamic allocation of file space, and sequential and random file access.
- **Independent Console Input and Output Support** — Ideal for applications requiring basic console input and output (such as word processing and graphics) because it allows bypassing of all CP/M-86 normal control character functions.
- **IOBYTE Support** — Allows physical and logical reassignment of peripheral devices.
- **Powerful Context Editor** — Line oriented text editor can be used to create documents or computer programming code.
- **Assembler Support** — ASM-86 assembler allows you to define unique instructions and is supplied in two forms designed for either an 8- or 16-bit system.
- **Dynamic Debugging Tool** — DDT-86 enables you to interactively test and debug programs.
- **Disk Drive Support** — Will support the following disk drive configurations: two 5¼" flexible disk drives; or one 5¼" flexible disk drive and one integrated Winchester disk drive; or two 5¼" flexible disk drives and one external Winchester disk drive.

CP/M-86 Command Utilities

Like CP/M-80, CP/M-86 furnishes a full set of fundamental command utilities that enable the creation, deletion, renaming, and reading and writing of both sequential files with variable-length records and random access files with fixed-length records. In order to provide a compatible environment for change from an 8- to a 16-bit architecture, CP/M-86 uses many of the same command utilities (both command and description) as CP/M-80. Among the command utilities provided are:

- DIR — Display disk directory
- STAT — File and disk status reporter; display status of disks, files or I/O devices
- TYPE — Display text file on screen
- REN — Rename file
- ERA — Erase file
- PIP — Peripheral interchange; copy file
- ED — Create and edit text source files; a line oriented editor
- ASM-86 — Translate assembly language to binary code
- DDT-86 — Dynamic Debugging Tool; interactively debug assembled programs
- SYSGEN — Generate and send copy of CP/M-86 from the source flexible disk system RAM to the destination flexible disk
- SUBMIT — Execute a string of commands
- USER — Display or set the current user number
- GENCMD — Convert CP/M-86 hexadecimal object file into an executable .CMD type of file. A version is supplied to run on the 8-bit CP/M-80 system.
- HELP — Online command hints.

CP/M-86 Standard System Support

Processor: Z-80A 8-bit/8088 16-bit

Memory: 64KB RAM

Graphics

Memory: 32KB or 96KB

Disk Two 5¼" flexible disk drives, 320KB each formatted; or one 5¼" flexible disk drive, 320KB formatted plus one integrated Winchester disk drive, 10MB formatted;

Drives: or two 5¼" flexible disk drives, 320KB each formatted plus one external Winchester disk drive, 10MB formatted

Display 12" CRT monochrome display or

Screen: 12" CRT color display

Keyboard: Detachable alphanumeric keyboard

