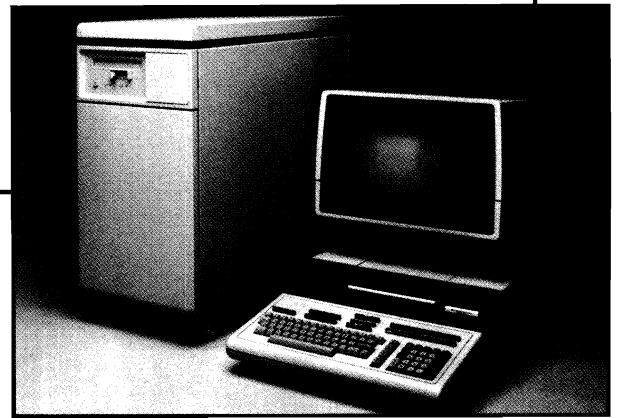
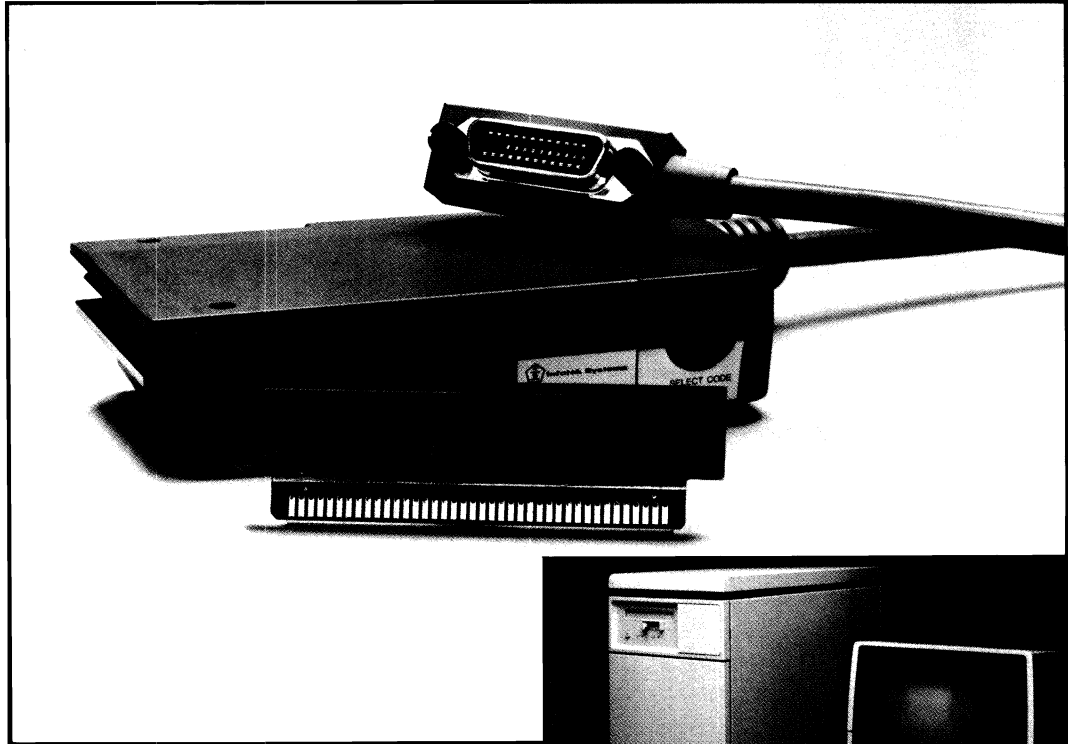


FMS 45 *Fast Mass Storage Subsystem*



■ *Increases the speed of data transfer without changing software.*

■ *Additional keywords for maximum speed increase and more flexibility.*

■ *Abbreviations for selected keywords to save typing time.*

■ *Traditional Infotek quality and reliability backed by a one year warranty.*

*Infotek Systems' FMS 45 Fast Mass Storage ROM and IEEE-488 Disk Interface are designed to optimize the performance of HP 9845 B, C and T mass storage operations. Now, mass storage operations can be executed as much as **24 times faster** than with the standard Hewlett-Packard commands and interface.*

These speed increases are made possible by transferring several sectors of disk data simultaneously at DMA speeds. Most HP mass storage commands transfer only one sector at a time, and HP's 98034 interface does not support DMA data transfers.

In addition, the FMS 45 contains statements which provide new mass storage capabilities, including a single-command disk duplication function, and the ability to copy, read, and write to physical sectors of the storage medium.

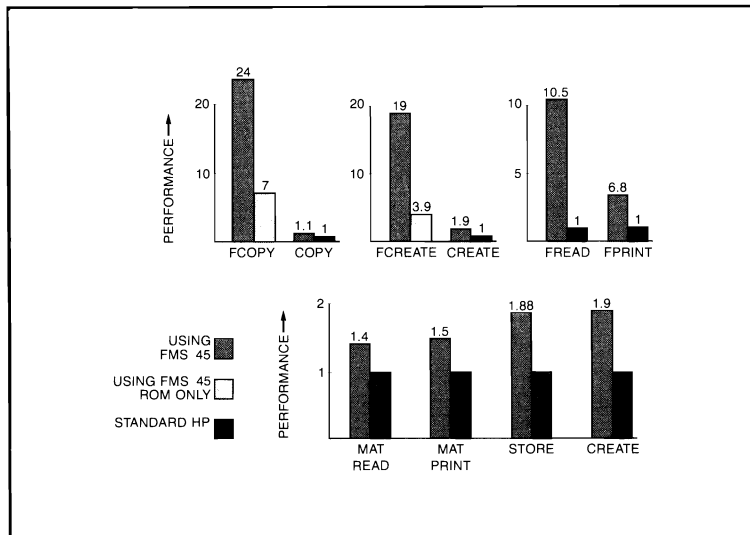


HP Computer Museum
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IEEE-488 DISK INTERFACE

Even greater speed increases can be realized by HP7908, 7911, and 7912 users through the use of Infotek's IEEE-488 Disk Interface. This interface has been designed with DMA capabilities that provide transfer rates between the HP9845 B, C and T and the above disk drives that are dramatically faster than with the standard HP interface. With the HP 7908, for example, a 45,000 character string array can be FPRINTed 6.8 times faster and FREAD 10.5 times faster than with the standard HP interface. The IEEE-488 Disk Interface requires the FMS 45 ROM.



These results are obtained using large data arrays

FMS 45 MASS STORAGE COMMANDS

FCOPY

A multiple-sector copy command that duplicates individual files up to 24 times faster than the HP COPY command. Syntactically identical to COPY.*

MCREATE

A multiple-sector command that allows even the largest data files to be created quickly.*

QCREATE

QCREATE creates data files even faster than MCREATE by omitting the end of record marks that are normally written in every sector.*

DUPLICATE

This command quickly duplicates an entire disk with a single command. HP9885 and HP9895 users can back up their disks without having to run a lengthy BASIC program. With the HP9895, the entire DUPLICATE process takes less than 3 minutes.*

SECTOR COPY

Reads a specified number of physical sectors and copies them to a specified destination sector.*

*Not for use with HP9845 internal cassette drives; CHECK READ is ignored by these commands.

SECTOR READ

Reads a specified number of sectors into an integer array.

SECTOR PRINT

Prints an integer array to specific sectors of the mass storage medium.

Using SECTOR PRINT and SECTOR READ, programs can be written to sort or rearrange disk directories, protect or unprotect all disk files, erase the directory without reinitializing the medium, etc.

NEW FUNCTIONS

M\$\$

Returns a string containing the current mass storage unit specifier

AVMEM

A numeric function that returns the current available memory.

INFOTEK SYSTEMS

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TYPING AIDS

MS. — Abbreviation for MASS STORAGE IS.

MC. — Abbreviation for MCREATE.

QC. — Abbreviation for QCREATE.

SR. — Abbreviation for SECTOR READ.

SP. — Abbreviation for SECTOR PRINT.

FMS 45 Fast Mass Storage ROM Compatibility:

- HP 9845 models B, C, and T.
- Left hand ROM drawer (green labeled ROMs)

Temperature range:
0° to 70°

IEEE-488 Disk Interface

Compatibility:

- HP 9845 Models B, C, and T
- Requires FMS 45 ROM
- HP 7908, HP 7911, HP 7912 hard disk drives (:Q, :R, and :S device types).

Maximum transfer rate:

read: 414 Kbytes/sec.

write: 575 Kbytes/sec.

Temperature range:
0° to 70°

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HP 9800 Series computers are
Hewlett-Packard products