

PDR 45™



Infotek Systems' Program Development ROM for HP 9845 models B, C, and T provides users with new and enhanced commands to facilitate program development, editing, documentation, and debugging for all applications. Designed as an option ROM that plugs into the right side ROM drawer, the PDR 45 includes the following features:

NEW COMMANDS

SEARCH

*Searches for a specific item * and displays the first line containing the item in the screen editor where the line can be edited. Executing SEARCH again locates the next occurrence. If a range* is specified, the search is limited to that range (a specific subprogram, for example).*

CROSS REF

Indexes a specific item, a specific type group, or all type groups by listing all of the line numbers that contain the item or type group. If a type is specified, an alphabetized index of all symbols of the type is listed; if ALL is specified, an alphabetized, type-grouped cross*

reference of all symbols that are used in the program is listed. Works within any specified range.

REPLACE

Replaces a specific item with any other item. REPLACE can be used to change every occurrence of a variable name, for example, throughout the entire program, or only within a specified range. REPLACE enhances program documentation by standardizing variable names or substituting more descriptive names.

REN-EDIT

Renumbers the program starting at any program line and automatically invokes the screen editor at the last edited program line. After the program is renumbered, the last edited program line will appear in the input line of the screen editor with its new line number, if changed. REN-EDIT can be used when the programmer wants to renumber the program in order to add program lines. With a single command, the user can renumber the program and begin adding program lines without having to search for the location where he left off.



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ERR-EDIT

Invokes the screen editor at the location of the most recent BASIC error and prints the text of the error description as found in the HP 9845 Programming Manual in the error message field of the editor. The line containing the most recent error will be found even if the program is renumbered.

LINE COPY

Copies multiple lines of a program to a user-specified destination without deleting the original program lines. The command also eliminates the necessity to make room at the destination to accommodate the copied lines.

LINE MOVE

Identical to LINE COPY, but deletes the source program segment.

ADJUST

Allows the programmer to adjust the program line indentation within a specified range. Makes the program easier to read.

MARK

Stores up to 10 editor locations for future reference as line identifiers.

NEW STATEMENTS

GETLINE

A statement to transfer the contents of a program line into a string. In conjunction with the PUTLINE statement, GETLINE can be used to alter programs under program control.

PUTLINE

Enables the user to transfer a string into a BASIC program as a program line. Strings can be generated to replace subprograms.

NEW FUNCTIONS

ERRX\$

Returns the error description for the most recent BASIC error and the location of that error. Can also return the error description for a specific error number. 187 error codes are included.

ENHANCED FEATURES

EDIT

Enhanced to invoke the screen editor at any line identifier*. EDIT can also invoke the editor at the last edited program line. A major drawback of the HP 9845 screen editor is that the editor is aborted whenever a command is executed, and the current edit line is lost. The PDR 45 EDIT command allows the programmer to recall the last edited program line even if the line number is not known.

REN

Enhanced to begin renumbering at any program line instead of the first line of the program.

DEL LN

Because of the location of this key on the HP 9845 keyboard, it is easy for the user to accidentally delete program lines. DEL LN has been enhanced to put the deleted line in the recall buffer so that any line accidentally deleted can be retrieved.

LIST

Enhanced to LIST a specific program range. The user can list all of the program lines of a string function subprogram, for example, even if the subprogram's beginning line number is not known.

DEL

Enhanced to delete a specific program range. Allows the programmer to delete an entire subprogram with a single command, even if the beginning line number is not known.

1.5 MEGABYTE CAPACITY

If three 512K memory boards are installed, the PDR 45 will allow the HP 9845 operating system to access 1.5 megabytes of memory.

TYPING AIDS

PI.

Abbreviation for PRINTER IS.

PA.

Abbreviation for PRINT ALL IS.

MS.

Abbreviation for MASS STORAGE IS.

TERMS

Item:

A specific item within a program:
a line number
a line label
a literal string
a simple numeric variable
a simple string variable
a numeric array
a string array
a subroutine
a numeric function
a string function
an assembly label

Type:

A generic category of symbols:
all labels
all simple numeric variables
all simple string variables
all numeric arrays
all string arrays
all subroutines
all numeric functions
all string functions
all assembly labels

Line Identifier:

Identifies the boundaries of range:
a line number
a line label
an ISOURCE label
lines identified by MARK, MARK E, or *
the beginning of a program or subprogram,
the ending of a program or subprogram

Range:

one or two line identifiers
the entire program
the main program
any subroutine
any subprogram

*See Terms



Infotek Systems

1400 NORTH BAXTER STREET • ANAHEIM, CALIFORNIA 92806 • (800) 227-0218 • (714) 956-9300 • TELEX 182283

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