

Chapter 3

HEC-1 Package Menu Program

3.1 Purpose of Program

The HEC-1 package menu, MENU1, has been created to aid the user in operating the program on the PC. The menu system provides the capability to: create and edit input files; execute HEC-1, DSPLAY, HEC1IN, and DSSUTL programs; and to display output conveniently to the screen or the printer. The following provides a description of the menu operation.

3.2 Program Operations

After all of the files have been installed on your hard disk, execution of the HEC-1 Package Menu program is accomplished by typing **MENU1** and pressing the **<ENTER>** key. You must execute the menu system through this batch file or the programs will not function correctly. The HEC-1 Package Menu should appear on the screen as shown in Figure 3. As you can see there are five choices, with the first choice being highlighted. Also highlighted is a status line at the bottom of the screen. This status line is used to direct the user on how to proceed at any point. The background and text colors of the menu can be changed for color monitors by pressing the F9 and F10 keys, respectively. The program will save the selected colors via the PARMS.DFT file. In general the menu operates by using the cursor arrow keys to move to the desired option, and then pressing **<ENTER>** to execute that option. Another way to execute an option is to press the number of the desired function. The following paragraphs describe each of the five options specifically.

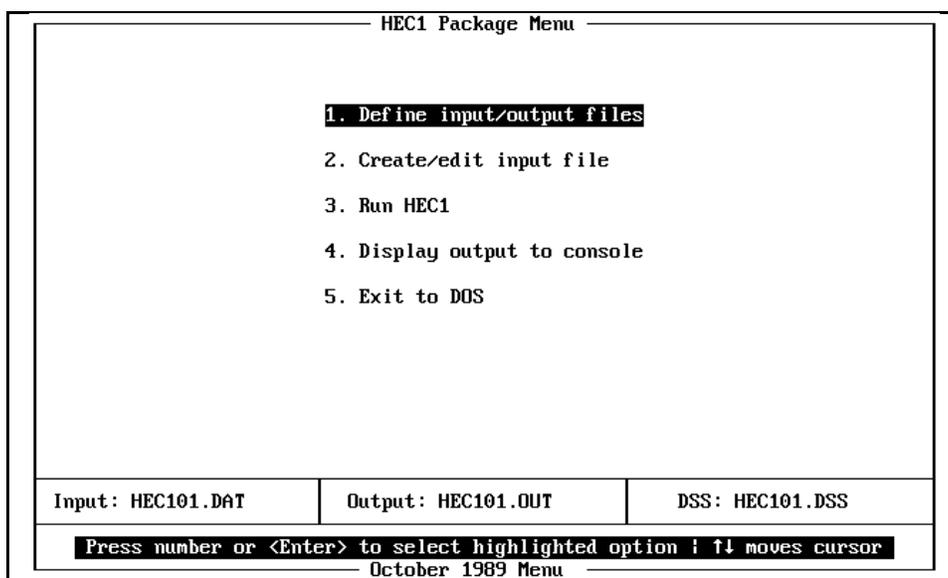


Figure 3. HEC-1 Package Menu

1. **Define Input/Output/DSS Files:**

This option is used to define the target input and output filenames that will be used when executing HEC-1. When this option is selected a pop-up menu will appear as shown in Figure 4. The menu is set up to use the default extensions ".DAT", ".OUT", and ".DSS" for the input, output and DSS filenames, respectively. This can be overridden by turning off the default extension option. The filenames can be entered directly, or a "?" can be entered to get a listing of the files available on the current data directory. You may choose a file by using the cursor keys to highlight the appropriate filename and then pressing the <ENTER> key. If the input file does not exist, you will be asked if you would like to create it. If you say yes to this question, a blank file will be created with the name that you specified. The next step would be to execute option 2 (Create/edit input file), which will allow you to enter the necessary data. Also note that at the bottom of the screen there is a line that displays the names of the current input, output and DSS files that are being used.

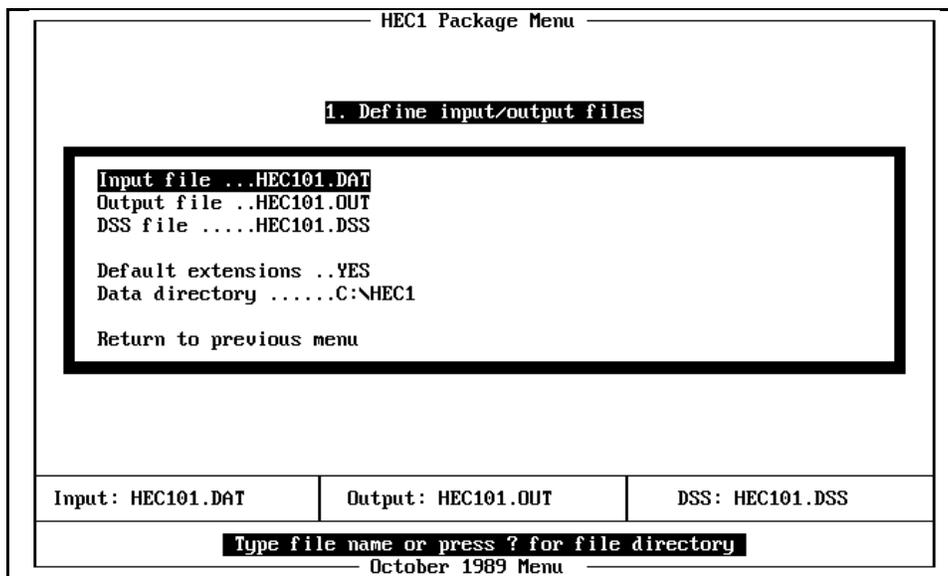


Figure 4. Define Input/Output/DSS Files Menu

2. **Create/Edit Input File:**

This option is used to create an input file, or to edit an existing input file, to be used by HEC-1. This option will only function if you have also installed the full screen editor COED on to your system ("COED," Corps of Engineers Editor, November 1987). If you have COED on your system, this option will allow you to go into the full screen editor with the previously defined input filename as the target file. When COED is executed through the menu system, the HEC1 help file is automatically loaded and the editor goes directly into full screen mode. While in COED you can create or edit an HEC1 input data file. When you are finished the program will return to the main HEC1 Package Menu. For help in using COED refer to the COED User's Manual. The next chapter describes "creating an input data file" in detail.

3. **Run HEC1 (or DSPLAY, HEC1IN, and DSSUTL):**

This option executes the HEC1, DSPLAY, HEC1IN, and DSSUTL programs. To switch between programs, just press the space bar while option 3 is highlighted. The input,

output and DSS filenames, defined under option 1, will be passed to the appropriate programs. When the HEC-1 program is finished executing, you should get the message "NORMAL END OF HEC1" if your input data were entered correctly. If you do not get this message, more than likely there is an error in your input data file. Review the output file, using the next option, to learn more about any possible input data errors. If no errors occurred, and the "NORMAL END OF HEC-1" message was printed, just press any key to return to the main HEC1 Program Menu.

4. **Display Output to the Console (or printer):**

This option is used to display output to the console or the printer. To switch from console to printer, just press the space bar while you are on option 4 (in other words, while option 4 is highlighted). If you choose to view output on the console, the utility LIST will be executed with the output filename being passed to it. If you choose to send output to the printer, the utility PROUT will be executed with the output filename being passed to it. Note: printer output is 132 characters wide. Therefore, set your printer font accordingly. Upon completion of either task, control will be given back to the HEC1 Package Menu.

5. **Exit to DOS:**

If this option is chosen it is assumed that you are completely finished with the menu system and control is given back to DOS.