HP Browse/XL User's Guide

HP e3000 MPE/iX Computer Systems

Edition 1

HEWLETT®
PACKARD

1   Introducing HP Browse

HP Browse is a full-screen interactive tool that allows you to examine and print files, and search for patterns of text in the files.

With HP Browse you can:

- Examine spool files.
- Examine any part of a file by:

    - Scrolling.

    - Moving immediately to a particular line.

    - Setting place markers at particular lines in the file.
- Open a second window. You can view different parts of one file, or view two separate files, simultaneously.
- Search for words and patterns of text in the file.
- Print all or part of a file.
- Customize HP Browse to meet your needs by setting configuration options.
- Get quick, complete, online help.

The HP Browse Screen

When you run HP Browse, it displays the first part of your file on the screen. The first three lines at the top of the screen display status information, messages, and relevant information about the file you are working on. The function keys are displayed at the bottom of the screen. You can execute all HP Browse functions using the function keys. You can also execute many HP Browse functions using other keys as well.

Where to Go from Here

If you want to start using HP Browse right away, go to Chapter 2, "Using HP Browse". Chapter 2 shows you how to do many of the tasks that are possible with HP Browse.

If you want to see all the HP Browse functions, look in Chapter 3, "Function Keys". Chapter 3 lists and describes all the functions available in HP Browse.

2   Using HP Browse

This chapter presents many of the tasks you can do with HP Browse. It shows you exactly the steps to take to accomplish these tasks.

Starting HP Browse

At the MPE prompt, run HP Browse by using the RUN command. You can give the name of the file you want to browse in the INFO string:

    :RUN HPBROWSE.PUB.SYS;INFO="filename"

Or use the implied RUN command:

    :HPBROWSE "filename"

Or you can let HP Browse prompt you for the file name:

    :RUN HPBROWSE.PUB.SYS

    File: filename

You can set up a User-Defined Command (UDC) for running HP Browse. The following UDC is an example:

    BROWSE FILENAME=" "

    RUN HPBROWSE.PUB.SYS;INFO="!FILENAME"

    **

Then the command to browse a file named "DATA" would be:

    :BROWSE DATA

Then the command to browse a file named "DATA" would be:

:<u>BROWSE DATA</u>

Stopping HP Browse

To leave HP Browse once you are in it, do *either* of the following:

Press the Exit function key.

or:

Press e.

Getting Help

HP Browse provides a comprehensive online help system that offers useful information about functions and the context in which they are used. To access the online help facility, do *any one* of the following:

Press the Help function key.

or:

Press H, h, or ?.

HP Browse presents you with three types of help. The first type lists several tasks you can do with HP Browse. It describes how to accomplish each task. The second type lists all the HP Browse functions and gives a description of each function. The third type lists all the HP Browse command keys and the functions they perform.

To leave the help facility and return to browsing your file, do *either* of the following:

Press the Exit Help function key.

or:

Press Return one or more times until you get back to your file.

When you press Return, HP Browse displays the previous help screen unless you are at the main help menu. In this case, your text file is displayed.

Customizing HP Browse

The HP Browse environment can be customized to suit your needs. HP Browse has several options which control certain aspects of your browsing session. With the Set Options function, you can examine and change these options. See "Option-Setting Functions" in Chapter 3 for a description of the options.

Seeing the Current Options

To see the current option settings:

1   Press the MPE and Options function key.

2   Press the Set Options function key. HP Browse displays the options.

3   After examining the browse options, press Return or the Exit Options function key to return to browsing the file.

Changing the Options

To change any option:

1   Press the MPE and Options function key.

2   Press the Set Options function key.

3   Press the function key corresponding to the option you want to change. (Use the Next Options function key to display the second set of function keys.) If the option only has two possible values, the option will change to the other value. Otherwise you must provide the new option value.

4   If applicable, type the new value for the option and press Return. If you do not enter a new value, the original option value will be restored.

5   Press Return, or the Exit Options function key to return to browsing the file.

Saving Your Changes to the Options

If you change any of the options, your changes will only be in effect for the current HP Browse session. The next time you run HP Browse, the options will be reset to the default values. If you want to save the changes you have made to the options, you must save them in a configuration file.

To save the current options in a configuration file:

1   Press the MPE and Options function key.

2   Press the Set Options function key.

3   Press the Next Options function key.

4   Press the Save Config function key.

5   If you want to save the options in the file named HPBCONFG, press Return. If you want to use a different filename, type the name, then press Return.

If you save the options in HPBCONFG, HP Browse will automatically use that file every time you use HP Browse, as long as it is in the group you are logged on to.

If you save the options to a file other than HPBCONFG, or if the file is in a group other than the one you are logged on to, you must use a file equation redirecting HPBCONFG to your file. For example,

    :FILE HPBCONFG=MYCONFIG.MYGROUP

Executing MPE Commands

HP Browse allows you to access the MPE command interpreter while using HP Browse. The Execute MPE Command suspends the current HP Browse session and allows you to issue any MPE command which is programmatically executable, including the RUN command.

To execute MPE commands:

1   Press the MPE and Options function key.

2   Press the MPE Command function key.

3   Enter as many MPE commands as desired.

4   Press Return at the MPE prompt to return to your HP Browse session.

Managing Files

Each time you start an HP Browse session, you must specify the name of the file you intend to examine. Once you are in HP Browse you can examine another file by using the Open File function. (You can also open a second window. See the section on opening a second window for how to do this.)

Opening a File

To open a file:

1. Press the File/Print function key.
2. Press the Open File function key.
3. Type the name of the file you want to browse. (To open a spool file, just type the name of the spool file, for instance, "O25.OUT.HPSPOOL".)
4. Press Return.

HP Browse displays the file. If you have two windows open, HP Browse displays the file in the current window.

Printing a File

To print all or part of a file:

1. Press the File/Print function key.
2. Press the Print Text function key. HP Browse displays the current print options.
3. Examine the current print options. You can change any of the print options by pressing the function key corresponding to the option you want to change.
4. To print the file, press the Print Text function key, or Return. (If you do not want to print the file, skip this step.)
5. To return to browsing your file, press the Exit Print function key, or Control Y.

HP Browse prints the file using the current print options. See Chapter 3, "File and Print Functions" for more information on the print options.

Managing Windows

HP Browse allows you to divide the screen into two windows so you can independently browse two different files, or different portions of one file, at the same time. This can be useful for comparing text in two different places.

Opening a Second Window

To open a second window:

1. Move the cursor to the line you want to be at the top of the new window.
2. Press the Windows function key.
3. Press the Open Window function key.

HP Browse opens a new window. Each window acts as a separate display. To open a second file in one of the windows, use the Open File function.

Switching between Two Windows

To make the other window the current window, *either*:

1. Use the cursor movement keys, arrow keys, or Switch Window function key to move the cursor to the other window.

or:

1   Press the Windows function key.

2   Press the Switch Window function key.

HP Browse makes the other window the current window. All functions apply to the current window.

Closing and Hiding a Window

To close or hide a window:

1   Use the cursor movement or arrow keys to position the cursor anywhere within the window you want to close.

2   Press the Windows function key.

3   Press the Close Window function key.

HP Browse closes the window.

If the two open windows display different files, when you close one of the windows HP Browse only *hides* that window. You can redisplay the hidden window with the Switch Window function or by closing the remaining window with the Close Window function. Either of these hides the current window and redisplays the hidden window.

To display both files in two windows again, use the Open Window function.

Changing the Size of a Window

To change the size of a window:

1   Position the cursor within the window to be resized.

2   Press the Windows function key.

3   Enter a number indicating how many lines you want in the window. (If you skip this step, the window size will be increased by one line.)

4   Press the Size Window function key.

When you resize the current window, the size of the other window will be adjusted to accommodate the new size of the current window.

Moving Around in the File

HP Browse allows you to move around in the file quickly and easily. You can scroll the file up and down, as well as left and right. You can go to a particular line in the file. You can use place markers to mark lines and then go to any of the lines you have marked.

Scrolling Forward and Back in the File

Scrolling Forward.   To scroll forward toward the bottom of the file, do *either* of the following:

1   Press s.

or:

1   Press the Position function key.

2   Press the Scroll Forward function key.

Scrolling Back.   To scroll backward, toward the top of the file, do *either* of the following:

1   Press S.

or:

1   Press the Position function key.

2   Press the Scroll Backward function key.

Scrolling Left and Right in the File

Scrolling Left.   To scroll left in the file:

1   Press the Position function key.

2   Press the Next Keys function key.

3   Press the Scroll Left function key.

Scrolling Right.   To scroll right in the file:

1   Press the Position function key.

2   Press the Next Keys function key.

3   Press the Scroll Right function key.

Changing the Number of Lines and Columns Scrolled

The number of lines or columns scrolled is determined by the scroll size options. The default number of lines scrolled up and down is 20. The default number of columns scrolled left and right is 60. To change the number of lines scrolled up or down, or to change the number of columns scrolled left or right:

1   Press the number indicating how many lines or columns you want to scroll.

2   Execute the appropriate scroll function.

This changes the scroll amount for all subsequent scrolls. You can also use the Set Options function to change this amount. See the section on customizing HP Browse for more information.

Moving to the Top and Bottom of the File

Moving to the Bottom of the File.   To move the cursor to the bottom of the file, do *either* of the following:

1   Press).

or:

1   Press the Position function key.

2   Press the Next Keys function key.

3   Press the Bottom of File function key.

Moving to the Top of the File.   To move the cursor to the top of the file, do *either* of the following:

1   Press (.

or:

1   Press the Position function key.

2   Press the Next Keys function key.

3   Press the Top of File function key.

Moving to a Particular Line in the File

To move the cursor to a particular line in the file, do *either* of the following:

1 Press g.

2 Type the desired line number.

3 Press Return.

or:

1 Press the Position function key.

2 Press the Go To Line/Mrk function key.

3 Type the desired line number.

4 Press Return.

HP Browse moves the cursor to the specified line number.

Moving to a Particular Marker in the File

You can set place markers with the Set Mark function key under the   Position function key. (See the section on using place markers for more information.) To move the cursor to a line that already has a marker set, do *either* of the following:

1 Press the number of the marker you want to move to. (Valid marker numbers are 1 through 9.)

2 Press g.

or:

1 Press the Position function key.

2 Press the number of the marker you want to move to. (Valid marker numbers are 1 through 9.)

3 Press the Go To Line/Mrk function key.

Searching for Text in the File

With HP Browse you can search for words and patterns of characters in the file you are browsing. You can also display only the lines that contain the desired characters.

The first step is to define the pattern of text you want to locate. This is called the **search pattern**. Once the search pattern has been defined, you can then issue one of the functions that initiates a search.

Defining a Search Pattern

To define a search pattern, do *either* of the following:

1 Press f.

2 Type the characters you want to find. (See "Search Functions", in Chapter 3 for more information.)

3 Press Return.

or:

1 Press the Search function key.

2 Press the Define Search function key.

3 Type the characters you want to find. (See "Search Functions", in Chapter 3 for more information.)

4 Press Return.

Searching Forward

To search forward for the current search pattern, do *either* of the following:

    1   Press /.

or:

    1   Press the Search function key.

    2   Press the Search Forward function key.

Searching Backward

To search backward for the current search pattern, do *either* of the following:

    1   Press \.

or:

    1   Press the Search function key.

    2   Press the Search Backward function key.

Displaying All Lines with the Search Pattern

To display all occurrences of the search pattern in the file:

    1   Press the Search function key.

    2   Press the Find All function key.

Setting and Using Place Markers

HP Browse provides a mechanism for marking up to 9 lines within your file. You can set place markers and then go to any of the marked lines.

Setting a Marker

To set a place marker at a particular line:

    1   Position the cursor on the line where you want the marker to be.

    2   Press the Position function key.

    3   Press the number indicating which marker number you want to use. Valid numbers are 1 through 9. (You can skip this step, and marker number 1 will be set.)

    4   Press the Set Mark function key.

Moving to a Particular Marker

To move to a line that has been marked, do *either* of the following:

    1   Press the number of the marker you want to move to.

    2   Press g.

or:

    1   Press the Position function key.

    2   Press the number of the marker you want to move to.

    3   Press the Go To Line/Mrk function key.

3   Function Keys

This chapter lists and describes all of the functions and corresponding options you can use in HP Browse. The individual functions are listed by keyset. The keysets are listed in the order which they appear, from left to right, in the main keyset.

Specifying a Count

Many HP Browse functions accept a numerical option, called the **count**, which you may specify before issuing a function. HP Browse uses the count in performing many functions. Specifying a count reduces the number of keystrokes required to perform a function affecting several characters or lines of text. See the description of functions in this chapter to understand how the count is used specifically.

The count parameter can be any integer greater than or equal to 1. HP Browse resets the count to 1 after executing every function except for the scrolling functions. For scrolling functions, the count you specify represents the scroll size for all subsequent scroll functions.

You can specify a count and HP Browse will maintain it until the next command function is executed. That is, you can specify a count before you move to the keyset in which the desired function resides. For example this series of commands:

    10 Windows Size Windows

is equivalent to:

     Windows 10 Size Windows

File and Print Functions

Open File

Use the Open File function when you want HP Browse to read a new file into the workspace window. HP Browse will accept any ASCII or binary file that is not a privileged file. Files are opened by HP Browse for both read-only and shared access. This allows multiple users to browse the file concurrently.

You can browse binary files with HP Browse but the data is interpreted as ASCII characters. HP Browse denotes data with a binary value by highlighting it.

Using HP Browse, you can open a file of any length within the limits of your MPE operating system. However, HP Browse does impose a restriction on the record size of the file. It will allow you to browse a file with a record size greater than 1024 bytes, but only the first 1024 bytes will be displayed. The only exception to this rule are files with variable length records. Many variable length record files have a physical record length greater than 1024 bytes although each logical record can be less than the length of the physical record. If a record is greater than 1024 bytes long, HP Browse will not display the data beyond the 1024th character.

If you open a numbered file, HP Browse will display the line numbers in the first nine columns for a regular numbered file and in the first seven columns for a COBOL numbered file. See also "Option-Setting Functions", in this chapter.

If you specify a file to be opened into a window that already contains an opened file, HP Browse will close the previously opened file to allow the new file to be read into the window. Regardless of size, only one file may be open in any one window. However, HP Browse does allow more than one window to be open at one time. For more information, refer to "Window Functions", in this chapter.

Print Text

Use the Print Text function to print an open file or portions of an open file. When you press the Print Text function key, HP Browse replaces your current function keys with the Print Text keyset and displays the print options on your terminal screen, as shown below:

```
HP BROWSE                          Print Text                 Press CTRL-Y to quit

    Lines Per Page              60
    Output Device              *LP
    Print Line Numbers          Yes
    Print Header Lines          Yes
    Line Range                 ALL

Use the appropriate function key to change values




















 1 Lines   2 Output  3 Print   4 Print    27   1  5  Line   6 Print   7  Help   8 Exit
 Per Page   Device    Numbers   Headers                Range    Text     Print    Print
```

Figure 3-1. The Printing Options Screen

Printing Your File.   After you press the Print Text function key, you can print the file you are currently browsing by either pressing Return or by pressing Print Text again.

HP Browse displays the current values of the print options, one per line. When you press either RETURN or Print Text, HP Browse sends text to the currently specified output device and using the currently specified print options. To return to the workspace window without printing the file, press Exit Print or "Control Y".

Print Options.   The print options you specify are maintained between executions of the Print Text function in HP Browse and may be set independently for each file opened in a session. Use the Save Config function in the Options keyset to save print options for the next time you use HP Browse. (Note, however, that the only print options that will be saved are Lines Per Page, Output Device, and Print Header Lines. Print Line Numbers and Line Range will not be saved.)

Lines Per Page.   Use the Lines Per Page option to determine how many lines of text should be printed on each page. When you press the Lines Per Page function key, HP Browse erases the current lines per page value and prompts you for a new value. If you press Return without entering a value, the previous value is restored. The minimum lines per page value allowed is 1 if the header option is disabled and 3 if the header option is enabled. (The header and the blank line after it count as two lines of the page.) The maximum value allowed is 10,000 lines per page. The default value is 60 lines per page.

Output Device.   The Output Device option allows you to specify which printer or disk file to send your

output to. Whether you send your output to a printer or a disk file, HP Browse uses file equations. When you press the Output Device function key, HP Browse erases the current file specifier and prompts you for a new value. If you press Return without entering a value, the previous value will be restored. The default for this option is "*LP". If no file equation exists for "LP", HP Browse creates the following default file equation:

FILE LP;DEV=LP

Print Line Numbers.   The Print Line Numbers option determines whether HP Browse prints line numbers in front of each line of text. When you press the Print Numbers function key, this value toggles between "Yes" and "No". If "Yes" is specified, HP Browse will print standard-numbered lines using the first ten columns for the formatted line number ("xxxxx.yyy "), COBOL-numbered lines with 8-column formatted numbers ("xxx.yyy "), and unnumbered lines are printed with their record numbers right-justified to column 6. If "No" is specified, the text of each line is printed, starting in column 1. The default for this option is "Yes" for numbered files and "No" for unnumbered files.

Print Header Lines.   The Print Header Lines option determines whether HP Browse prints headers at the top of each page. When you press Print Headers, this option toggles between "Yes" and "No". If "Yes" is specified, HP Browse will print a header on the top of each page and a blank line is left between the header and the text. Otherwise, no header lines are printed. A sample header is shown below:

PAGE 12   FRI, MAR 16, 1990, 3:45 PM   FILE: MYFILE.MYGROUP.ACCOUNT

Line Range.   The Line Range option allows you to print all or part of a file. When you press the Line Range function key, the existing value for this option will be erased and HP Browse will prompt you for a new line range. The keyword All can be used to specify the range when you want to print an entire file. The keywords First and Last can be used to specify the first and last lines (or records) in your file. In cases where you want to print only a portion of a file, you must specify the beginning and ending lines of the text to be printed as shown below.

Line Range *firstline*/*lastline*

If the file you want to print is a numbered file, HP Browse expects you to enter a line number range. Otherwise, a record number range is expected. If you type Return without entering a line range, HP Browse will restore the previous value. The default for this option is "ALL". Sample line ranges for numbered and unnumbered files are given in Table 3-1.

Table 1: Sample Line Ranges

Numbered	Unnumbered
84.2/392.35	1011/1873

Use the Help Print function key to display a description of each of the HP Browse print options.

The amount of text printed per line is based on the record length of the output device. If the record length is not defined, HP Browse assumes it is 132 columns. If the text in a line is longer than 132 columns, HP Browse will print it on multiple lines with the continuation character, "$", at the beginning of the additional lines signifying that they are continuation lines.

Window Functions

You can browse two windows of text simultaneously. To open another window of text or resize an existing window, use the Windows keyset. When viewing two windows of text, you can set the following options independently for each window using the Set Options and Print Text functions:

• Display Line Numbers

- Forward/Back Scroll Size

- Left/Right Scroll Size

- Lines Per Page

- Output Device

- Print Line Numbers

- Print Header Line

- Line Range

The remaining HP Browse options are global; that is, they apply to both of the windows even if the windows contain different files. The global options are listed below.

- Highlight Match

- Ignore Case

- Pattern-Matching Chars

- Function Keys

- File Path

- Search Pattern

Also, the Exit function always applies to both windows.

The remainder of this section describes the functions you can use to manage windows in HP Browse.

Open Window

The Open Window function splits the text window horizontally into two text windows. The split occurs at the line where the cursor is located on the screen. There are three conditions under which you cannot use the Open Window function key:

- If the cursor is in the status area.

- If HP Browse is already displaying two windows.

- If the resulting window would have less than one line of text.

In all three of these cases, HP Browse displays an error message and the Open Window function is not performed.

Close Window

Use the Close Window function to close the text window that the cursor is positioned in. When you press the Close Window function key, the remaining window expands to fill the space occupied by the closed window. If you are browsing two different files, HP Browse hides the current window when you press Close Window. With one window hidden, you can have a full screen display and switch between files by pressing the   Close Window function key. See Chapter 2, "Managing Windows" for more information.

To redisplay the window you have just closed, use the Open Window function. This will create a new window and display text from the previously closed window with its corresponding window options.

Size Window

You can change the size of the current window by using the Size Window function. The new size of the current window (in lines) is specified by the count parameter. If you do not specify a count, the current window will be enlarged by one line and the other window will be reduced by one line. The size of the other window will always be adjusted to fill the remainder of the screen.

Switch Window

In HP Browse you can manipulate two windows independently by moving the cursor into either window before executing a function. To move a cursor from one open window to another, press the Switch Window function key or simply use the cursor movement arrows on your keyboard to position the cursor into the other window. If a window is hidden, the Switch Window function will display the hidden window and hide the previously displayed window.

Refresh Screen

The Refresh Screen function redisplays the current text window (or windows). Two possible reasons for refreshing your screen are if you pressed a key that manipulates the terminal screen (like Clear Display) or if some data communications interference has produced garbled characters on the screen. When you press the Refresh Screen function key or the * character, HP Browse redisplays the entire screen.

Positioning Functions

You can use a number of HP Browse functions to move around in a file. To allow you to use positioning functions outside of the Position keyset, HP Browse permits the use of assigned keys in addition to the positioning function keys. These key assignments, given below in Table 3-2, are valid whenever HP Browse is displaying a text window.

Table 2: Key Assignments for Positioning Text

Function	Assigned Key Command	Description	Accepts Count?
Scroll Backward	S	Scroll window backward. (Move text down.)	Yes
Scroll Forward	s	Scroll window forward. (Move text up.)	Yes
Back Line	-	Move the cursor backward count lines.	Yes
Forward Line	Return or +	Move the cursor forward count lines.	Yes
Go to Line/Mrk	g	Move cursor to specific line number or mark.	Yes
Top of File	(	Move cursor to the first line of the file.	No
Bottom of File	)	Move cursor to the last line of the file.	No
Back Character	Backspace	Move the cursor count characters to the left.	Yes
Forward Character	Space Bar	Move the cursor count characters to the right.	Yes

Scroll Backward/Forward

The Scroll Backward and Scroll Forward functions move the text window backward and forward respectively in the file the number of lines specified by the Forward/Back scroll size option. Specifying a count signals HP Browse to scroll the window by that number of lines and set the Forward/Back scroll size option to that number. To Scroll Backward, press either the Scroll Backward function key or the S character. To Scroll Forward, press either the Scroll Forward function key or the s character.

Back Line

The Back Line function moves the cursor one line towards the top of the file. If the cursor is already on the top line in the text window, the window is scrolled one line back in the text.

To use this function, press either the Back Line function key or the - character. You may specify a count for this function. The default is 1 line backward.

Forward Line

The Forward Line function advances the cursor one line in the text window. If the cursor is already on the last line in the window, the window is scrolled one line forward in the text. The default is 1 line forward.

To use this function, press either the Forward Line function key, Return, or the + character. Specifying a count to the Forward Line function causes the cursor to move *count* lines forward.

Go to Line/Mark

The Go to Line/Mark function is the most direct way to move around in a file. This function allows you to specify a destination line number or mark number. If you specify a count before you press the Go to Line function key or the g character, HP Browse assumes you are referring to a mark number. However, if you do not specify a count, HP Browse prompts you for a line number.

If the file you are browsing is unnumbered, the line number you enter represents the record number from the beginning of the file. For example, 466 would refer to the 466th record in an unnumbered file.

Set Mark

Specific locations in the text may be marked for easy recall with nine text marks. To specify a mark number, select a count between 1 and 9 and press the Set Mark function key. If no count is specified for this function, HP Browse sets mark #1.

Marks need not appear in numeric order in the file. For instance, mark #7 can appear before mark #2. If you attempt to access a mark that has not been set in a file, the message

Mark #*n* has not been set (HPBW 760)

will appear in the status line.

Scroll Left/Scroll Right

Files with records larger than 80 characters can be viewed with HP Browse. However, only the first 1024 characters are be displayed. For text lines in unnumbered files that extend beyond the 80th column, HP Browse displays a maximum of 79 characters with the 80th column containing a "$" signifying that data exists beyond that column. A "$" in column 1 signifies that data exists to the left of that column. (That is, you have previously scrolled right.) You can view other areas of the text window by scrolling left and right. When you use Scroll Left and Scroll Right, all lines in the text window are scrolled simultaneously.

The Scroll Left and Scroll Right functions move the text window to the left and right respectively, the number of columns specified by the Left/Right Scroll Size option. If you specify a count for either of these functions, HP Browse moves the window left or right *count* columns and sets the Left/Right scroll size option to *count*.

To specify these functions, you must use the Scroll Left and Scroll Right function keys.

Top of File

The Top of File function moves the text window to the top of your file. To use this function, press the Top of File function key or the (character.

Bottom of File

The Bottom of File function moves the text window to the bottom of your file. You can press either the Bottom of File function key or the) character to use this function.

Back/Forward Character

The Back Character and Forward Character functions move the cursor back one character and forward one character, respectively. You cannot induce HP Browse to scroll the text window left and right with these functions.

If you use the Back Character function when the cursor is in the leftmost column of the text window, HP Browse moves the cursor to the last column of the previous line in the text window. If the cursor is in the rightmost column of a line in the text window (that is, column 80, column 160,...), using the forward character function will move the cursor to the leftmost column of the next line in the text window.

To use the Back Character function, press Backspace; to use the Forward Character function, press Space Bar. You may specify a count for these functions.

Search Functions

You can use HP Browse to search for patterns of text in the files you are browsing.

HP Browse assigns character keys for three of the five functions in the Search keyset. That is, you can issue a single character keystroke command as well as use the function keys to search files in HP Browse. These Search functions are given in Table 3-3.

<div align="center">Table 3: Search Functions</div>

Function Key	Assigned Key Command	Description of Function	Accepts Count?
Search Backward	\	Search backward for a specified search pattern.	Yes
Search Forward	/	Search forward for a specified search pattern	Yes
Define Search	f	Specifies a search pattern.	No

Search Backward

After you have defined a search pattern, press either the Search Backward function key or the \ character to find the occurrence of the pattern just previous to the postion of the cursor. If the search pattern is found, HP Browse moves the cursor to this previous occurrence. If a count is specified, HP Browse will look for the *count* th occurrence of the pattern before the cursor.

Search Forward

The Search Forward function, like the Search Backward function, can be used only after you have defined a search pattern. When you press either the Search Forward function key or the / character, HP Browse looks for the next occurrence of the search pattern and moves the cursor to this position if the pattern is found. If a count is specified, HP Browse will look for the *count* th occurrence of the pattern after the cursor.

Define Search Pattern

Use the Define Search Pattern function to specify a pattern for HP Browse to search. HP Browse allows you to specify wildcard characters, beginning line, end line, and character classes within your search pattern. When you press either the Define Search function key or the f character, the most recent search pattern is displayed in parentheses, allowing you to verify the current search pattern or enter a new search pattern before you actually search your file. However, HP Browse will display only the first 60 characters of your previous search pattern.

Special Pattern-Matching Characters. HP Browse has a pattern-matching facility that enables you to use wildcard and other special characters in order to conduct more sophisticated pattern searches of your files. You can use any of the pattern-matching characters of HP Browse when you specify a pattern with the Define Search Pattern function. To signify to HP Browse that you want to use these special matching characters, set the Use Pattern-Matching Chars to "Yes". If it is set to "No", HP Browse will treat these characters literally. These special pattern-matching characters are listed below.

Character	HP Browse Functionality
^	Matches the beginning of a line when it is the first character of a pattern. Represents "Not in set" when it is the first character after a left bracket, [. Otherwise, HP Browse treats it literally. That is, the ^ character matches only other ^ characters.
$	Represents the end of a line when it is the last character of a pattern. Otherwise, it is treated literally.
( )	Groups portions of a pattern. The main use of parentheses is with the vertical bar character. You must always specify at least one character between left and right parentheses.
|	Separates multiple, distinct patterns in a list. Matches any one of the patterns in the list. The bar character has special meaning only when used inside parentheses, otherwise it is treated literally. That is, the | character outside of parentheses matches only |.
[ ]	Indicates a set of characters. HP Browse attempts to match any *one* of the characters in the set. You must always specify at least one character between left and right brackets.
-	Signifies a range of alphanumeric characters starting with the character preceding the hyphen and ending with the character following the hyphen. The hyphen character has special meaning only when used inside brackets. However, HP Browse will treat a hyphen literally inside brackets if it is the first or last character inside the brackets.
+	Matches one or more occurrences of the previous character.
*	Matches zero or more occurrences of the previous character.
?	Matches exactly one of any character.
?+	Matches one or more characters.
#	Matches exactly one of any digit.
@	Matches 0 or more number of unspecified characters. (Equivalent to ?*).
\	Causes any subsequent character to be interpreted literally.

If you want to search your file for occurrences of the word "BUF", regardless of surrounding characters, you can simply type

        BUFReturn

after pressing the Define Search function key. The pattern "BUF" contains no wildcard or pattern-matching characters. It specifies only the word "BUF". However, using pattern-matching characters, you can create many other search strings. Some examples are shown below.

Syntax	Pattern Specified
^The	Any line starting with the word "The".
\^The	The string "^The".

(a|[c-z]|[1-4])   A single character chosen from the following: "a", the range "c" to "z", or the range 1 to 4.

([A-Z])BUF   Any one capital letter followed by "BUF".

[A-Z]\(@\);   Any string starting with an uppercase alphabetic character followed by an open parenthesis, any number of characters, and a close parenthesis. The entire string must be terminated with a semicolon.

BUF+$ Any line ending with a string that begins with "BU", followed by one or more occurrences of "F".

BUF*   The character string "BU" followed by zero or more occurrences of "F".

???_BUF#   Any three characters followed by the string "_BUF" followed by any one digit.

\@\?\\   The string "@?\".

Find Matching Delimiter

If the cursor is on a parenthesis, brace, or bracket, you can use the Find Matching Delimiter function to move the cursor to the matching parenthesis, brace, or bracket if such a match exists. For example, if the cursor is on a close parenthesis character (")") and you want to find the corresponding open parenthesis character ("("), simply press the   Match Delimitr function key and HP Browse will move the cursor to the matching delimiter if it exists. If a matching delimiter does not exist, HP Browse will tell you so and leave the cursor where it was when you executed the function.

Find All Occurrences

The Find All Occurrences function displays all the lines in a file containing your search pattern. It also enables you to move quickly to a particular line containing your search pattern. If you specify a count when you use this function, HP Browse searches the next *count* lines beginning with the current line. If no count is given, HP Browse searches the entire file.

If the pattern cannot be found during a Find All Occurrences search, HP Browse displays "Not found." in the message line. When a pattern is found, HP Browse displays the first 19 lines containing the search pattern. (Note that if you press Control Y while the occurrence lines are being printed, HP Browse

terminates the search, leaving the lines it has printed on the screen.)

```
HP BROWSE                    Find All Occurrences        Press CTRL-Y to quit
Search pattern: (USING)
Press Return on this line to quit:
To move to a line, position cursor on desired occurrence and press Return

  273.01  $   The number of parameters in the USING phrase of the CALL statement
  364.01  $   A CALL statement or USING option contains too many parameters.
  377.01  $   The number of parameters listed in the USING phrase of a CALL
  412.01  $   An illegal parameter was used in a PROCEDURE DIVISION USING




1 Move To 2           3           4           27   36 5 Prev    6 Next    7           8 Exit
  Line                                             Page     Page              Find All
```

Figure 3-2. The Find All Occurrences Screen

The search pattern is displayed on the second line of the screen in parentheses. If there is not enough room on the second line for the entire search pattern, HP Browse displays only the first 60 characters of the search pattern.

HP Browse displays the corresponding line number with each line containing an occurrence of the search pattern. Standard line numbers are formatted in 10 columns; COBOL line numbers are formatted in eight columns. For unnumbered files, the record number is printed in the first six columns. A dollar sign at either end of an occurrence line indicates that the line is too long to be displayed on the text screen and has been truncated.

If HP Browse finds multiple occurrences of the search pattern on a line and one or more is beyond the columns being displayed, additional lines are printed containing the same line number with the starting column number in brackets.

At the prompt, you may press Return to go back to the line in the text window where the Find All Occurrences function was executed. To browse a specific matching line within the context of the text window, move the cursor to the desired matching line and then press either Return or the   Move to Line function key. Pressing Control Y or the Stop Search function key while the cursor is anywhere on the Find All screen will display the text window positioned at the line where the Find All Occurrences function was executed.

HP Browse can only display 19 matching lines at a time. If you execute the Find All function and HP Browse finds over 19 matching lines, they are displayed on multiple screens. Press Space Bar or the Next Page function key to display the next screen of matching lines.

MPE Commands

To execute MPE commands without exiting HP Browse, use the "Execute MPE" function. When you press

the MPE Commands function key, HP Browse displays the colon prompt and executes MPE commands until you press Return in response to the prompt. HP Browse then returns you to your previous text window.

Command Files, UDCs, and execution of program files are also supported through the MPE Command interface.

NOTE   The following commands are not supported through the MPE Command interface in HP Browse: ABORT, BYE, CHGROUP, DATA, DO, EOD, EOJ, EXIT, HELLO, JOB, LISTREDO, OPTION, REDO, RESUME, SETCATALOG, and SHOWCATALOG.

Option-Setting Functions

Pressing the Set Options function key causes HP Browse to display the current value of its options. The figure below shows each option's default value (for a numbered file).

```
Options (press Return to exit, ? for help, * to refresh the screen)


     Display Line Numbers        Yes
     Highlight Match             Yes
     Ignore Case                 No
     Use Pattern-Matching Chars  No
     Function Keys               Save
     Forward/Back Scroll Size    20
     Left/Right Scroll Size      60
     File Path                   .OUT.HPSPOOL


Use function keys to change any of the above values
```

```
1 Display  2 Highlite 3 Ignore  4 Match    37    1 5 Next    6 Refresh 7  Help   8  Exit
  Numbers    Match      Case      Pattern          Options            Options  Options
```

Figure 3-3. The Browsing Options Screen

Changing Options

To change these options, use the function keys associated with the option you wish to change. In the case of "Yes/No" options, the option value will toggle between values when the function key is pressed. Options requiring integer or character values prompt you for a new value. Press Return to resume browsing the text window.

Display Line Numbers.   The Display Line Numbers option may be "Yes" or "No". If "Yes", HP Browse will display line numbers in the first nine columns for standard numbered or unnumbered files or the first seven columns for COBOL numbered files. The default is "Yes" for numbered files and "No" for unnumbered files.

Highlight Match.   The Highlight Match option may be "Yes" or "No". If "Yes", text found during searches is highlighted. The default is "Yes".

Ignore Case.   The Ignore Case option may be either "Yes" or "No". If "Yes", HP Browse performs its searches without regard to the case of characters in the file. That is, alphabetic characters in the search pattern will match either their uppercase or lowercase equivalents. If "No", the case must agree for HP Browse to match the search pattern. The default is "No".

Use Pattern-Matching Characters.   The Use Pattern-matching Chars option may be "Yes" or "No". If "Yes", special pattern-matching characters can be used when you specify your search pattern. (For more information, see "Search Functions: Define Search Patterns", in this chapter.) If "No", the search pattern is interpreted literally. The default is "No".

Function Keys.   The Function Keys option toggles between "Save" and "Replace". The default is "Save", which saves your function keys as you enter HP Browse and restores them upon exiting. If the "Replace" value is used, your function keys are overwritten as you enter HP Browse and they are *not* restored upon exiting.

Forward/Back Scroll Size.   The Forward/Back Scroll Size option indicates how many new lines are moved into view on each Forward/Back Scroll function. The value of this option must be an integer greater than zero. The default is 20.

Left/Right Scroll Size.   The Left/Right Scroll Size option that indicates how many columns are moved into view on each Left/Right Scroll function. The value of this option must be an integer between 1 and 1000. The default is 60.

File Path.   The File Path option, if specified, must consist of suffixes to append to a file name when the file name cannot be found in the current group. When this function key is pressed, the current file path is displayed and you are prompted for a new file path. Each path is entered as ".Group" or ".Group.Account". Specify multiple paths by separating each suffix by either a comma or blank. The default value for this option is .OUT.HPSPOOL, to simplify the browsing of spool files. You only need to enter the spooler output number to specify the spool file in the file path; HP Browse fills in the rest of the file path.

Saving Your Options

The Save Configuration function saves the current browse and print options to the file name you specify. (See "File and Print Functions: Print Text" for information about print options.) The default file is "HPBCONFG". If you save the options to a file other than HPBCONFG, you must use a file equation to redirect HPBCONFG to your file. The options that are saved by pressing the Save Config are listed below.

- Print Options Saved:

    - Lines Per Page

    - Output Device

    - Print Header Lines

- Browse Options Saved:

    - Use Pattern Matching Characters

    - Function Keys

    - Forward/Back Scroll Size

    - Left/Right Scroll Size

    - File Path

Help Facility Functions

HP Browse provides a comprehensive help facility offering useful information about functions and the context in which they are used. To get help, press the Help function key, or "H", or "h", or "?". To leave the help facility and return to browsing your file, press Control Y, or the Exit Help function key.

When you request help, the Main Help screen appears offering three categories of information:

1. Functions by Topic: Provides a list of tasks and how to accomplish them.

2. Function Description: Provides a list of HP Browse functions with descriptions.

3. Key Assignments: Provides a list of keys that are assigned to HP Browse functions.

You can then select which type of information you want by entering a number 1 through 3 or by pressing the corresponding function key. To return to the previous menu, press Return, or function key F1. To view the next page of help, press the Space bar, or the Next Page function key.

There is additional help under the Set Options function and the Print Text function. These give information about setting HP Browse options, printing files, and setting print options.

To get help on setting options, press the Help Options function key in the Set Options keyset. HP Browse displays information on each of the options and how to change them. To get help on printing text, press the Help Print function key in the Print Text keyset. HP Browse displays information on each of the print options, how to change them, and how to print all or part of your file.

Once you are in the help facility, press the Space bar, or the Next Page function key to see the next page of information. To leave the help facility, press the Exit Help function key, or Control Y.

Keyset Functions

In addition to the numerous functions you can use to look at text files, HP Browse provides functions that allow you to move from one keyset to another. These function keys are given below in Table 3-4.

Table 4: Keyset Functions and Their Locations

Function Key	Description	Location
Main Keys	Return from a function-specific keyset to the main keyset.	File/Print, Windows, Position, Search, and MPE/Options keysets.
Exit Keyset	Return from a third level keyset to a function-specific keyset.	Print Text, Options, and Help keysets.
Exit	Exit HP Browse	Main keyset.
Next Keys/ Previous Keys	View other keys in the keyset. These keys exists where there are more than eight function keys in a keyset.	Position keyset.
Next Options/ Previous Options	View other Options in the keyset.	Set Options keyset.
Next Page	View the next page of text.	Help keysets.
Previous Page	View the previous page of text.	Find All and Help keysets.

4   Table of Character Key Assignments

This table lists all the character keys you can use in HP Browse and their corresponding functions. You can use these character keys in place of the function keys.

Function	Character Key Assignment
Back Character	Backspace
Back Line	-
Bottom of File	)
Define Search Pattern	f
Exit	e
Forward Character	space bar
Forward Line	+ or Return
Go to Line/Mark	g
Help	? or h or H
Refresh Screen	*
Scroll Backward	S
Scroll Forward	s
Search Backward	\
Search Forward	/
Top of File	(

5   Errors and Warnings

This section contains all the error messages and warnings you can receive while using HP Browse. These messages are listed below in numeric order along with the probable reason each is issued.

HP Browse Error Messages

020   Initial spool file control information not displayed. (HPBW 020)

The spool file was created using an environment for the laser printer. This information at the beginning of the file is not displayed by HP Browse.

030   Carriage Control data not displayed. (HPBW 30)

The file contains carriage control characters. These characters are not displayed by HP Browse.

090   The cursor was above the first line. (HPBW 90)

You attempted to issue a command while the cursor was above the first line of text on the screen.

100   The cursor was below the last line. (HPBW 100)

You attempted to issue a command while the cursor was below the last line of text on the screen.

140   The character is not a valid delimiter. (HPBW 140)

The cursor was positioned on a character that is not a valid delimiter when performing Find Matching Delimeter. Valid delimiters are: (), [] , and {}.

150   A matching delimiter was not found. (HPBW 150)

HP Browse could not locate a delimiter matching the character you specified.

160   The end of file was reached. (HPBW 160)

You tried to move the cursor beyond the end of the file.

170   The beginning of file was reached. (HPBW 170)

You tried to move the cursor above the beginning of the file.

200   Unable to get collating sequence table for this language. (HPBW 200)

This is not a user error. HP Browse encountered an error while attempting to retrieve the collating table for the language of the text. The collating table contains the language-specific ordering of the characters. Please contact HP support; investigation is required.

210   Unable to get collating sequence table length for this language. (HPBW 210)

This not a user error. HP Browse encountered an error while attempting to read the length of the collating table for the language of the text. The collating table contains the language-specific ordering of the characters. Please contact HP support; investigation is required.

220   Unable to get attribute table for this language. (HPBW 220)

This is not a user error. HP Browse encountered an error while attempting to retrieve the attribute table for the language of the text. The attribute table contains language-specific information about the characters. Please contact HP support; investigation is required.

230   There is not enough space for the NLS collating sequence table. (HPBW 230)

This is not a user error. HP Browse could not find enough space in memory for the collating table. The collating table contains the language-specific ordering of the characters. Please contact HP support; investigation is required.

240   Unable to compare strings using NLCOLLATE intrinsic. (HPBW 240)

This is not a user error. A system routine that compares character strings failed to function properly. Please contact HP support; investigation is required.

250   Unable to get the upshift table for this language. (HPBW 250)

This is not a user error. HP Browse encountered an error while attempting to retrieve the upshift table for the language of the text. The upshift table contains language-specific capitalization information. Please contact HP support; investigation is required.

260   Unable to get the downshift table for this language. (HPBW 260)

This is not a user error. HP Browse encountered an error while attempting to retrieve the downshift table for the language of the text. (The downshift table contains language-specific lowercase information.) Please contact HP support; investigation is required.

310   Unable to locate the command. (HPBW 310)

This is not a user error. HP Browse could not determine which command you wanted help text for. Please contact HP support; investigation is required.

320   Command not listed in help catalog. (HPBW 320)

This is not a user error. HP Browse could not find information in the help catalog for the specified command. Please contact HP support; investigation is required.

360   Illegal pattern or pattern too long to be processed. (HPBW 360)

The search pattern you entered either contains pattern-matching characters that HP Browse cannot properly interpret, or it contains too many pattern-matching characters.

400   Cannot access input file. (HPBW 400)

This is not a user error. HP Browse encountered an error while getting information about the file being read in. Please contact HP support; investigation is required.

450   File has more than 2147483647 lines. (HPBW 450)

The file you are attempting to browse exceeded the current maximum number of lines (2,147,483,647) that HP Browse can accommodate.

470   Unable to read filename. (HPBW 470)

This is not a user error. HP Browse encountered a problem while attempting to read the specified file name. Please contact HP support; investigation is required.

520   Illegal delimiter in filename. (HPBW 520)

You entered an invalid delimiter character in the file name.

530   First character of identifier not alphabetic. (HPBW 530)

          The requested file name begins with a non-alphabetic character.

540   Unrecognized file name. (HPBW 540)

          MPE rejected one or more components of the requested file name. You may have misspelled
          the file name.

550   Identifier in file name is too long. (HPBW 550)

          One or more components of the requested file name is longer than eight characters, which is
          the maximum MPE allows. You may have misspelled the file name.

560   Not a legal file name (-XXX). (HPBW 560)

          This is not a user error. MPE considers the file name invalid. XXX is the error number MPE
          returned to HP Browse. Please contact HP support; investigation is required.

580   Received error XXX while reading input file. (HPBW 580)

          This is not a user error. HP Browse encountered an error while attempting to read from the
          input file. XXX is the error number MPE returned to HP Browse. Please contact HP support;
          investigation is required.

670   Cannot read configuration file. (HPBW 670)

          HP Browse could not read in the configuration file because you may have specified a non-ex-
          istent file name in the file equation :FILE HPBCONFG=*filename*.

680   Valid mark numbers are 1 - 9. (HPBW 680)

          You specified a mark number out of the valid range. HP Browse supports mark numbers one
          through nine only.

690   Cannot save configuration to file. (HPBW 690)

          This is not a user error. HP Browse encountered an error while attempting to save the con-
          figuration file. Please contact your system administrator to check your account, group, and
          user capabilities.

710   Scroll size too large. Set to maximum size *nn*. (HPBW 710)

          The count you entered before executing a scroll command or the value entered on the options
          screen was larger than the maximum allowed. The value was set to the maximum allowed.

720   Unrecognized command: *Command*. (HPBW 720)

          You attempted to execute an unknown HP Browse command. *Command* indicates the in-
          valid key.

730   Unknown command (CIERR XXX). (HPBW 730)

          The MPE command interpreter does not recognize the specified command. XXX is the error
          number MPE returned.

740   Received CIERR XXX at parameter XXX. (HPBW 740)

          MPE returned the system error XXX for the parameter XXX. You may have misspelled the
          command.

760	Mark #*n* has not been set. (HPBW 760)
	You attempted to go to a mark that has not been set. You have not set marker #*n*.
810	End of file on $STDIN. (HPBW 810)
	You entered an :EOD sequence at the beginning of the line during text entry. HP Browse interprets this sequence as a request to immediately exit HP Browse.
820	Duplicate permanent file. Unsupported SAVE option in file equation. (HPBW 820)
	A file equation exists for the specified file that contains the SAVE option. The SAVE option does not allow a duplicate file to be purged. Remove the SAVE option from the file equation and redo the function.
830	Duplicate permanent file. Unsupported TEMP option in file equation. (HPBW 830)
	A file equation exists for the specified file that contains the TEMP option. Remove the TEMP option from the file equation and redo the function.
840	Device type of save file not supported. (HPBW 840)
	You attempted to copy a portion of a file (using the print command) or attempted to save the configuration to a file whose file equation uses an unsupported device. Possibly, the file name is file equated to a tape device.
850	Received security violation error while attempting to save file. (HPBW 850)
	You attempted to copy a portion of a file (using the print command) or attempted to save the configuration to a group for which HP Browse lacks write access. You may have inadvertently attempted to save text to another account.
860	Invalid file reference specified. (HPBW 860)
	MPE rejected one or more components of the requested file name. You may have misspelled the file name.
870	Received a file system error (!) while attempting to save file. (HPBW 870)
	HP Browse received a file system error XXX while attempting to save a configuration file or a print file. Please check your logon user, group, and account capabilities. If these capabilities are correct, please contact HP support; investigation is required.
880	File being accessed and cannot be overwritten. (HPBW 880)
	The configuration file or the print file is being accessed by another process and cannot be overwritten.
890	Unable to purge the old file. Kept to temporary file instead. (HPBW 890)
	The old configuration file or a disk file specified in the print command could not be purged. Instead, HP Browse kept the file as a temporary file with the same name. Possibly the file was being accessed by another program at the same time.
900	Invalid exponent. (HPBW 900)
	This is not a user error. HP Browse encountered an invalid exponent. Please contact HP support; investigation is required.
1040	Invalid number entered. (HPBW 1040)

You entered an invalid line number for this file format (for example, entered 1.123 for an unnumbered file). Check the line number format for this file before reentering a line number.

1310   Unable to read disk record XXX (line XXX). (HPBW 1310)

This is not a user error. HP Browse encountered an error while attempting to read record XXX, which corresponds to line XXX. Please contact HP support; investigation is required.

1350   Only two windows can be open at one time. (HPBW 1350)

HP Browse supports a maximum of two screen windows.

1360   The upper window is too small. (HPBW 1360)

There must be at least one line of text above the cursor in order to open a new window.

1370   The lower window is too small. (HPBW 1370)

There must be at least one line of text below the cursor in order to open a new window.

1380   Invalid yes response from the message catalog. (HPBW 1380)

This is not a user error. HP Browse could not read the "yes" response from the message catalog. Please contact HP support; investigation is required.

1390   Unable to read your response - NO assumed. (HPBW 1390)

This is not a user error. HP Browse encountered an error while attempting to read a yes/no question. HP Browse assumed the answer was no. Please contact HP support; investigation is required.

1430   Unable to read the help catalog directory. (HPBW 1430)

This is not a user error. HP Browse encountered an error while attempting to read the help catalog directory. Please contact HP support; investigation is required.

1440   Unable to get information about the help catalog. (HPBW 1440)

This is not a user error. HP Browse encountered an error while attempting to get information about the help catalog. Please contact HP support; investigation is required.

1450   No user labels in the help catalog. (HPBW 1450)

This is not a user error. The HP Browse help catalog has an improper format; it is lacking user labels. Please contact HP support; investigation is required.

1460   Invalid keyword "XXX" found in the help catalog. (HPBW 1460)

This is not a user error. HP Browse encountered the invalid keyword XXX in the help catalog. Please contact HP support; investigation is required.

1470   Read of help catalog failed on record XXX. (HPBW 1470)

This is not a user error. HP Browse encountered an error while attempting to read record XXX in the help catalog. Please contact HP support; investigation is required.

1480   Topic "XXX" is not in the help catalog. (HPBW 1480)

This is not a user error. HP Browse could not locate topic XXX in the help catalog. Please contact HP support; investigation is required.

1490 XXX is not a valid topic number. (HPBW 1490)

    The topic numbered XXX does not exist. Enter a number listed on the Topics screen.

1495 XXX is not a valid function number. (HPBW 1495)

    The function numbered XXX does not exist. Enter a number listed on the Function Description screen.

1500 There is no next page. (HPBW 1500)

    The only page or last page of the current topic is being displayed. There is no next page to display.

1520 Unknown command "XXX". (HPBW 1520)

    HP Browse does not accept XXX as a valid command.

1530 Unable to open help catalog : XXX. (HPBW 1530)

    This not a user error. HP Browse could not open the help catalog: XXX. The help system cannot be accessed without first opening the help catalog. Make sure the help catalog is installed properly.

1540 Unable to read the number of help topics. (HPBW 1540)

    This is not a user error. HP Browse encountered an error while attempting to open the number of help topics from the help catalog. Please contact HP support; investigation is required.

1550 Received error XXX when attempting to open function key file. (HPBW 1550)

    This is not a user error. HP Browse encountered an error while attempting to open the file where the function keys are preserved. XXX is the error MPE returned to HP Browse. Please contact HP support; investigation is required.

1560 Received error XXX writing to function key file. (HPBW 1560)

    This is not a user error. HP Browse encountered an error while attempting to write to the file where the function keys are preserved. XXX is the error MPE returned to HP Browse. Please check your logon, user, group, and account capabilities. If these capabilities are correct, please contact HP support; investigation is required.

1570 Received error XXX writing EOF to function key file. (HPBW 1570)

    This is not a user error. HP Browse encountered an error while attempting to write an End Of File character to the file where the function keys are preserved. XXX is the error MPE returned to HP Browse. Please check your logon, user, group, and account capabilities. If these capabilities are correct, please contact HP support; investigation is required.

1580 Received error XXX closing function key file. (HPBW 1580)

    This is not a user error. HP Browse encountered an error while attempting to close the file where the function keys are preserved. XXX is the error MPE returned to HP Browse. Please check your logon, user, group, and account capabilities. If these capabilities are correct, please contact HP support; investigation is required.

1590 Received error XXX opening function key file. (HPBW 1590)

    This is not a user error. HP Browse encountered an error while attempting to open the file

where the function keys are preserved. XXX is the error MPE returned to HP Browse. Please contact HP support; investigation is required.

1600   Received error XXX rewinding function key file. (HPBW 1600)

This is not a user error. HP Browse encountered an error while attempting to rewind the file where the function keys are preserved. XXX is the error MPE returned to HP Browse. Please contact HP support; investigation is required.

1610   Received error XXX reading from function key file. (HPBW 1610)

This is not a user error. HP Browse encountered an error while attempting to read from the file where the function keys are preserved. XXX is the error MPE returned to HP Browse. Please contact HP support; investigation is required.

1620   Received error XXX when attempting to reopen function key file. (HPBW 1620)

This is not a user error. HP Browse encountered an error while attempting to reopen the file where the function keys are preserved. XXX is the error MPE returned to HP Browse. Please contact HP support; investigation is required.

1650   Unable to open localized message catalog; using Native-3000. (HPBW 1650)

This is not a user error. HP Browse encountered an error while attempting to open the localized message catalog. The Native-3000 message catalog was found and will be used. Please contact HP support; investigation is required.

1660   Unable to open the localized help catalog; using Native-3000. (HPBW 1650)

This is not a user error. HP Browse encountered an error while attempting to open the localized help catalog. The Native-3000 help catalog was found and will be used. Please contact HP support; investigation is required.

1670   Unable to get the text language; using Native-3000. (HPBW 1670, XXX)

This is not a user error. HP Browse encountered an error while attempting to retrieve the text language number. XXX is the error MPE returned to HP Browse. Please contact HP support; investigation is required.

1680   Unable to get the decimal separator character. (HPBW 1680)

This is not a user error. HP Browse encountered an error while attempting to retrieve the local decimal separator character. Please contact HP support; investigation is required.

1690   Unable to construct the help catalog filename. (HPBW 1690, XXX)

This is not a user error. HP Browse encountered an error while attempting to append the language ID to the help catalog file name. Please contact HP support; investigation is required.

1730   Unable to open text message catalog : XXX. (HPBW 1730)

This is not a user error. HP Browse encountered an error while attempting to open the message catalog (XXX) for a particular language. Please contact HP support; investigation is required.

1750   Command is not programmatically executable. (HPBW 1750)

The command entered from the MPE command interface is not programmatically executable.

The desired command must be run directly from MPE and not from within HP Browse.

1820   Warning: The message catalog does not match program version. (HPBW 1820)

This is not a user error. HP Browse encountered an error while checking the version of the message catalog. The message catalog version does not match the version of the program. HP Browse will still attempt to run but some error messages may be incorrect or may not be found. HP Browse may not have been installed correctly. Try reinstalling HP Browse. If there is no change after reinstallation, please contact HP support; investigation is required.

1840   No occurrences found. (HPBW 1840)

No occurrences were found for the defined search pattern.

1850   Only one occurrence found. (HPBW 1850)

Only one occurrence was found for the defined search pattern.

1860   Only XXX occurrences found. (HPBW 1860)

XXX occurrences were found for the defined search pattern.

1890   Invalid lockword specified. (HPBW 1890)

The lockword you specified did not match the lockword for the file. Check the spelling of the lockword and try again.

1900   Received security violation opening XXX. (HPBW 1900)

You don't have the security access capabilities to read the file.

1910   Unable to open file XXX. (HPBW 1910,XXX)

The file you are trying to access does not exist.

1920   Unable to update temporary file. File system error XXX. (HPBW 1920)

This is not a user error. HP Browse encountered an error while attempting to update the temporary file HP Browse created to browse a variable length record file. Check the file system error to see if the problem was a disk space problem. If the problem is not due to limited available disk space, please contact HP support; investigation is required.

2000   Could not run requested program. CREATEPROCESS error *nnn*. (HPBW 2000)

This is not a user error. The MPE intrinsic CREATEPROCESS failed. Contact your system administrator. If your system administrator cannot resolve the problem, contact HP support; investigation is required.

2010   A program file name was not entered. (HPBW 2010)

A program name was not entered after the RUN command. Retype the RUN command and follow it with a program name.

2020   Expecting an entry point after the program name. (HPBW 2020)

A comma followed the program name for the RUN command without an entry point specified for the program.

2030   Quotation marks on INFO parameter do not match. Expecting (!). (HPBW 2030)

The INFO parameter on the RUN command must have matching quotation marks surround-

ing the data for the parameter. Only one quotation mark was specified.

2040   Quotation marks (' or ") must surround INFO string. (HPBW 2040)

The INFO parameter of the RUN command must have matching quotation marks surrounding the data for the parameter.

2050   Invalid RUN option ('!') found in RUN command. (HPBW 2050)

The RUN command has a parameter that is not valid.

2060   Value following 'STACK=' is invalid. (HPBW 2060)

The value entered is greater than 32767 or contains a non-numeric value.

2070   Value following 'DL=' is invalid. (HPBW 2070)

The value you entered is greater than 32767 or contains a non-numeric value.

2080   Value following 'MAXDATA=' is invalid. (HPBW 2080)

The value you entered is greater than 32767 or contains a non-numeric value.

2090   Value following 'PARM=' is invalid. (HPBW 2090)

The value you entered is greater than 32767 or contains a non-numeric value.

2100   Value following 'LIB=' is invalid. (HPBW 2100)

The only values that are valid for the LIB parameter are 'P', 'G', and 'S'.

2110   Expecting the string 'NEW' after STDLIST file reference. (HPBW 2110)

The use has entered a comma after the STDLIST file reference without entering the string 'NEW'. Either enter the string 'NEW' after the comma or change the comma to a semicolon (;).

2120   Value following 'STDIN=' is invalid. (HPBW 2120)

The value entered after the 'STDIN=' RUN option is not a valid file reference.

2130   Value following 'STDLIST=' is invalid. (HPBW 2130)

The value entered after the 'STDLIST=' run option is not a valid file reference.

2140   The string following the 'INFO=' run option is greater than 256. (HPBW 2140)

The maximum allowable string length for the 'INFO=' run option is 256 characters.

2150   The program file name is too long. Maximum of 40 characters. (HPBW 2150)

The maximum allowable program file name is 40 characters.

2160   Expecting a semicolon (;). Found (!) instead. (HPBW 2160)

Expecting a semicolon between run options. Found the displayed string instead. Insert a semicolon between the run options.

2200   Out of system resources (PCB's, DST's, etc.). (HPBW 2200)

This is not a user error. There are not enough system resources to execute the RUN command. Contact your system administrator.

2210   Program does not exist. (HPBW 2210)

The program you are trying to run does not exist.

2220   Not a valid program file. (HPBW 2200)

The program you are trying to run is not a valid program file.

2230   Process could not be loaded due to a hard load error. (HPBW 2230)

The program you are trying to run cannot be executed. Try running the program outside of HP Browse to identify the problem. Let your system administrator know of this problem.

2240   Could not open the specified STDIN file. (HPBW 2240)

The STDIN file you specified in your RUN command could not be opened. Check to see that the file exists and is accessible.

2250   Could not open the specified STDLIST file. (HPBW 2250)

The STDLIST file you specified in your RUN command could not be opened. Check to see that the file exists and is accessible or that your file equation is valid.

2260   Entry point for program does not exist. (HPBW 2260)

The entry point specified for the program given in the RUN command does not exist for that program.

2270   Missing equal sign (=) after RUN parameter. (HPBW 2270)

One of the parameters after the RUN command was expecting an equal sign, but none was found.

2280   Expecting data to follow the equal sign (=). (HPBW 2280)

One of the parameters after the RUN command was expecting data to follow the equal sign.

9980   Internal error XXX. Please report. (HPBW 9980)

This is not a user error. This is a general purpose internal error message used by HP Browse. XXX is the number of the internal message. Please contact HP support; investigation is required.