

HI-RES WORD PROCESSOR

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Users groups - be aware.

The HI-RES Word Processor is using part of the SW-HI-RES package (available from Nissim Elmaleh for \$20 -- including copy to printer capability). The SW-HI-RES package was used to generate the lower case characters and the cursor. Some of the characters may look distorted on the screen, but the printout will look just fine.

GENERAL INFORMATION

HRWP - HI-RES Word Processor
FILE - The data/information that is processed by the HRWP.
PAGE - Group of 20 lines

The HRWP is a full screen word processor. This means that you will have your file displayed on the screen 20 lines at a time (one page) and a status line at the bottom of the screen. You can move the cursor on the screen (up, down, left, right). Typing any one of the BASIC characters will replace the character above the cursor.

End of file is marked by the symbol:

"<E>". You cannot move the cursor beyond the end of file marker.

To increase the file size, you have to use a command SHIFT/G with the number of lines that you want to add to the file. There is another command (SHIFT/D) that will delete lines.

THE CURSOR

The cursor is one character wide and appears under the letters. The cursor is blinking while the word processor is waiting for you to press a key (it is not true in the case of adding/deleting lines). If you don't see the cursor, use the arrows to move it and this will help you find it.

MODES OF OPERATION

Normal mode/Insert mode: There are two modes of editing your file. One is called the NORMAL mode which means that the character you typed in will replace the character above the cursor. The other mode is called INSERT. In the INSERT mode, the character that you type will be inserted at the cursor position and the rest of the line from that point to the end of the line will be shifted to the right (the last character will be deleted.)

The mode is displayed on the status line.

Lower Case/Upper Case

To switch between Upper case/Lower case modes, press the shift/graphic key (shift/9). If you are in Lower case and you pressed this key, it will go into Upper case mode and vice versa.

The mode is displayed on the status line.

STATUS LINE

The status line gives the modes you are in, the size of your file and number of lines you asked to add (with "+" sign) or delete (with "-" sign).

Lower Case/Upper Case Indication:

On the left end of the status line, you will have a black square (inverse space character) when you are in Lower case mode. It will be space when in Upper case mode.

Normal Mode/Insert Mode:

The letter "I" indicates the Insert Mode. Space indicates Normal Mode.

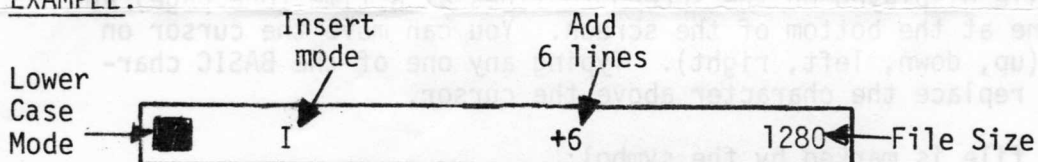
Number Of Lines To Be Deleted/Added:

Your input that follows the Add/Delete lines command will be displayed with a "+" sign for add or a "-" sign for delete.

File Size:

On the right end of the status line, you will get the size of your file. The size will be updated every time you add or delete lines.

EXAMPLE:



HOW TO USE THE HI-RES-WORD PROCESSOR PACKAGE

Load the tape (use the name "HRWP".)

Type GOTO 10. This takes you into HI-RES mode which means that the display that you see on the screen is from HI-RES DISPLAY file. Don't try to delete lines 1, 2 or 3 from the HI-RES mode ----- it will cause a crash!

Now your file size is 32 bytes (one line). Before starting to work, you have to increase the file size. To do so, use the shift G (generate) command. Typing shift/G and then pressing the 9 key will result in a file of 10 lines. Keep in mind that the size of the file is not fixed, you can change it whenever you wish to. You can make it smaller by using the Shift/D command. The shift/G and shift/D commands are also used for inserting or deleting lines in the middle of the text.

HRWP COMMAND SET

All the commands are entered by simultaneously pressing the Shift key and another key. For example -- to enter to INSERT mode, you have to press the Shift key and the A key simultaneously. The exception is the New Line command. Pressing BREAK key during copy to the printer will terminate the printout.

COMMANDKEY

INSERT

A

-Enter to INSERT mode if in normal mode or exit from INSERT mode if in INSERT mode. This command will affect the status display. Make sure to exit from INSERT mode when you are done because the typing speed is slow in INSERT mode.

LOWER CASE

Graphic (9)

-Enter to Lower case mode if in Upper case, or exit from Lower case mode if already in lower case mode. Inverse space will be indicated on the status when entering to Lower case mode.

RUBOUT

Rubout

-Delete the character to the left of the cursor and shift the rest of the line to the left.

NEW LINE

New Line

-Moves the cursor to the beginning of the next line. If the cursor is out of page, then the screen will scroll up and the next line will be displayed on the bottom.
(Don't press Shift key for New Line).

CURSOR
MOVEMENTS

-Moves cursor right.



-Moves cursor left, The cursor will move only in the boundaries of the screen.



-Moves cursor up one line, when reaching the top line, the screen will scroll down and the line before the current displayed page will appear on the top of the screen.



-Same as cursor up, but the cursor will move down and screen will be scrolled up when reaching the bottom line.

DISPLAY
PREVIOUS PAGE

E (EARLY)

-Displays previous page. Goes back 20 lines or until reaching the beginning of the file--which ever comes first. The cursor will be located at the beginning of the page (upper left hand corner).

DISPLAY NEXT
PAGE

F (FORWARD)

-Displays next page. If there is no next page, and end of file mark will appear. (You can use this option to add new lines at the end of the file). The cursor will be located at the beginning of the page (upper left corner).

PRINT WHOLE
FILE

T (Type)

-Print the whole text on the Timex/Sinclair printer, 32 characters per line. No formatting is done to the text (printout is exact image of the screen). Pressing BREAK will stop the printer and return to the word processor.

PRINT SCREEN

S (Screen)

-Same as T (Type), but prints only the current page displayed on the screen.

ADD NEW LINES

G (Generate)

-Add new lines before the line that the cursor is on. After pressing Shift/G, the cursor will stop blinking. The HRWP is waiting for a number between 1 and 9 to be pressed. (Any other key will be equivalent to 1). Once the numeric key was pressed, the file will be expanded by the number of lines that you typed in. (No shift for the number is needed). The number you entered will be displayed on the status line with a "+" sign. The size of the file will be updated as well. Typing Shift/Rubout instead of a number will cancel the command.

DELETE LINES

D (Delete)

-Delete lines. The number of lines to be deleted is entered in the same manner as for the Shift/G command. n lines from the current line and down (including the current line) will be deleted. The status will display the number of lines you asked to delete with a "-" sign (-n). The last line in the file cannot be deleted. If you ask to delete more lines than there are from the cursor to the last line of the file, the command will be ignored. The file size will be updated when deleting lines.

Typing Shift/Rubout instead of the number of lines to delete will cancel the delete command.

PRINT WHOLE FILE SIDEWAYS

W (Write)

-Print the whole file sideways; 64 characters per line up to 20 lines will be printed in each printer page. The page width is 8½" (including spaces).

PRINT SCREEN SIDEWAYS

Y (Why not?)

-Print the screen (current page) sideways.

TYPING SPEED:

The normal typing mode might seem to some of you as too fast - - each key you press will appear more than once. In the HI-RES-WORD processor package, there is a loop that slow down your typing. The number of loops is 40. To make it slower, you have to increase this number----to make it faster, you have to decrease this number. The address to poke this value is 19359.

LOWER CASE CHARACTER SET

It is possible and very easy to change the lower case character set that goes to the printer. Starting at address: 21360 every character is represented by 8 bytes, the same way the BASIC characters are represented in the ROM (address 1E00). The first character at address 21360 is "A" and the last is "Z".

MAKING BACKUP TO THE HRWP

Load the tape (use the name "HRWP") and save it using the command SAVE "HRWP".

DELETING YOUR FILE (By mistake or intentional)

If variable Z\$ does not exist, you will get BASIC error number 2 when you will try to run the HRWP program (RAND USR 19092 or GOTO 10). In this case,

Type LET Z\$= " ← 33 blanks → "
 LET Z\$ (33) = CHR\$ 118

Remember: Typing RUN or CLEAR will destroy the Z\$.

32K or 64K Memory

The file size can be up to 32K (1024 lines). To get the maximum file size, you will have to set RAMTOP high enough before loading the "HRWP". When the file size will get to max (32768), the HRWP program will ignore any further requests to increase the file.

WHAT HAPPENS WHEN YOUR MEMORY IS FULL:

Using less than 64K memory, you may fill up your memory. When your memory is full, you will go back to BASIC. Then you can enter again to the word processor by typing GOTO 10 or RAND USR 19092. If the Sinclair will not accept your command (as it happened when you exhausted your memory), you can delete line 15 and then type GOTO 10. Remember to add line 15 when you are done with the word processor. (Line 15 is RAND USR 16609).

FILE STRUCTURE

The file consists of records (lines) of 32 characters long. Lower case characters are represented by the inverse of the Upper case character.

The file resides in the variable area as a string with the name Z\$. End of file is marked by the N/L character (118) at the end of the file. The size of the file should be a multiple of 32+1.

SAVING YOUR FILE AND HRWP

When you are done processing your file or you just want to save your file, you have to go out of the HI-RES mode by pressing shift Q and selecting number 4. Basic line number 3 contains the HI-Resolution Display file which you don't need to save (GOTO 10 generates it for you). This line is about 5.5K, so deleting it before saving your file will save you time and tape storage.

WARNING:

Don't delete line 3 when you are in HI-RES mode. (The thin line at the bottom of the screen indicates that you are in HI-RES mode). Deleting line 3 will cause a crash.

Shift Q Command

NOTE: All addresses given below are correct only after typing GOTO 10. (with REM number 3 in).

Pressing shift Q will display a menu on the screen. You select the desired option by typing a number (1 to 5) and pressing the new line. Options 1, 2, 3, and 5 will take you back to the word processor where the cursor pointing to the beginning of the text. The options are:

1. Print the whole text on the Timex/Sinclair printer; 32 characters per line. The printout is right and left justified and new paragraphs will start at column one. Pressing BREAK while the text is printed will stop the printout and return you to BASIC.
2. Print the whole text on the Timex/Sinclair printer, 64 characters per line printed sideways. As in option 1, the text is formatted and new paragraph will start at column one. Pressing BREAK will return you to BASIC.
3. Print the text on 80 column printer. You will be asked to enter the line width that you want your text to be formatted. You can get double width characters (if your printer has that capability - read further instructions on how to do it).
4. Exit from word processor. Returns you to BASIC. To enter again to the word processor, type GOTO 10.
5. Return to the word processor. The cursor will point on the first character of the test.

New Paragraph

To get new paragraph on the formatted printout, you have to put a special character in the text. When this character is met, the text up to this point will be printed as it is and new line will be started. Using more than one "New Paragraph" characters will result in space lines.

To get n spaces between paragraphs you will have to put n+1 control characters right before the beginning of the paragraph. No left justification is done to the first line of the new paragraph.

To get the special character, you have to be in lower case mode (shift graphics), pressing the 9 key (without shift) will put the control character where the cursor is (if in INSERT mode, it will be inserted. If in normal mode, it will replace the character above the cursor).

It is possible to use this special character as a tabulator. To do it you will have to poke the number of spaces you want at address 27445 (the present value is 0). Remember, in case that right justification is needed, it may move the left margin to the right.

Double Width (Size) Characters

Double width characters can be printed on a 80 column printer that has that option. Control character has to be added to the text before and after the text that you want to print in double width. To get the control character, you have to be in lower case mode. Pressing the key 8 will generate the control character for double width. The same control character is used to terminate the double width printout. For example, if you want to type the message HELLO in double width, you will have to:

- 1) Enter to lower case mode (press shift GRAPHICS if you are in upper case mode).
- 2) Press the key 8, you will see a strange character on the screen.
- 3) Press shift GRAPHICS, to enter to upper case (if you wish to type the message in upper case, otherwise ignore step 3).
- 4) Type the message (HELLO).
- 5) Repeat Steps 1 and 2.

Warning

The HRWP package is designed for interfaces that requires a control character and another character in order to control double/single size characters. The codes that you have in the "HRWP" are good for the Memotech Centronic Interface (I/F) connected to Seikosha, Epson or NEC printer. These codes are 115, "E" to turn on the double size and 115, "F" to turn it off.

If your printer use different control codes, you can poke them in the HRWP. The 115 code (which tells the printer that next character is a control character) is at addresses 27500 and at address 27567. The codes to start and stop the double size printout are at address 27509 ("E" = 42) and at address 27513 ("F" = 43).

The actual printing of the text is done by BASIC LPRINT Command (BASIC line number 250 and 260), if your printer does not recognize the LPRINT Command then you will have to change lines 250 and 260.

NOTE: You can delete line number 97 if you are not using a Timex/Sinclair printer (saves 1216 addresses).

Timex Sinclair Printers With 16K Memory:

Selecting option 1 or 2 will print the whole text on the Timex Sinclair printer. If you are using 16K memory, you may be short on memory. Here are some modifications that you can make to partially overcome the problem:

- 1) Change line 10 to 10 DIM B\$(40).
- 2) If you are not printing sideways then you can change the dimensions of X\$ to 32. Change line 97 to be: 97 DIM X\$(32). You have to poke two addresses: POKE 27416,32 and POKE 27417,0.

If you didn't change line 97 then when you will print the text (option 1), you may get up to 38 blank lines printed ($32 \times 38 = 1216$) after the end of your text. Use the BREAK key to stop the printout when you reached the end of the text.

You can change the width of the printout (to the Timex/Sinclair printer) from 32 or 64 to any smaller number.

For Option 1, POKE address 27398 (present value is 31) with the line width minus one.

For Option 2, POKE address 27402 (present value is 63) with the line width minus one.