HEWLETT-PACKARD

HP-71/HP-75 to HP 150/IBM PC/XT/AT File Transfers

Summary

This application note provides instructions for transferring ASCII (TEXT) files between an HP-71 or HP-75 Handheld Computer and an HP 150 or IBM PC/XT/AT computer.

Procedures, instructions, and/or programs are provided for each step in the transfer process. These steps include:

- Enter the BASIC data transfer program (XFERPC) into handheld computer (either HP-71 or HP-75)
- Configure the HP 150 or IBM computer
- Connect system components

Listings of programs for the following functions are included:

- Interactive configuration of the HP 82164A HP-IL/RS-232C Interface
- TEXT file upload from an HP-71 or HP-75 to either an HP 150 or IBM PC/XT/AT
- TEXT file download from an HP 150 or IBM PC/XT/AT to an HP-71 or HP-75

This note assumes you have a working knowledge of the products involved.

Appendix A provides instructions and programs to allow conversion of HP-71 or HP-75 DATA files into TEXT files. After conversion, these TEXT files can be uploaded to the HP 150 or IBM using the XFERPC program for the appropriate handheld computer.

HP-71 or HP-75 BASIC programs may be transformed into TEXT files for uploading. Refer to Owner's Manual for instructions.

*The programs in this document have not been tested with a modem.

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○ Indicates an HP 150 or IBM key.
□ Indicates an HP-71 or HP-75 key.

Required Equipment

- Either: HP-71 Handheld Computer and HP 82401A HP-IL Interface
  OR
  HP-75 Handheld Computer plus 00075-15001 I/O ROM or Users' Library 00075-13013 I/O Utilities
- HP 82164A HP-IL/RS-232C Interface and HP-IL Cables (2)
- Either: HP 150A, B, or C, RS-232C Cable and HP 45431A Advance/Link or HP 45425A DSN/Link
  OR
  IBM PC, AT, or XT, RS-232C Cable and Crosstalk® XVI (Data Communications System Software)

Hardware Configuration*

HP-IL/RS-232C Interface
Configure the HP-IL/RS-232C Interface as a DCE terminal. See page 21 of the Interface Owner's Manual for instructions.

RS-232C Cable (for HP 150)
Use a male to female RS-232C cable with pins wired end-to-end.

RS-232C Cable (for IBM)
Use a cable with pins wired end-to-end, one connector female and the other connector as required by the COM1 port of the IBM.

HP-71/HP-75 to HP 150 File Transfers
This section provides an explanation of how to enter the XFERPC program into your handheld computer; configure the HP 150, PORT 1 and MS-DOS; and connect system components.

Procedure

1. Enter the program XFERPC on either the HP-71 or HP-75 (refer to Owner's Manual for instructions). Be sure to use the BASIC program specified for the handheld computer you are using. If you are using the HP-75, the "HPILCMDS" file must be resident in the machine before loading XFERPC. Both the Users' Library I/O Utilities and the HP-75 I/O ROM contain HPILCMDS.

2. Configure the HP 150 as follows:
   - Ensure that the HP 150 is in terminal mode. (Press ○f6 from the main menu if in P.A.M.)
   - Press ○User System, ○f8 (config keys), then ○f1 (global config).
   - Configure the HP 150 as a computer and ensure that Port 1 is the remote device.
   - Press ○f1 to save the configuration.

3. Configure Port 1 as follows:
   - Press ○f8 (config keys), then ○f3 (Port 1 config). The following menu will appear.

FULL DUPLEX HARDWIRED   Port 1

BaudRate `9600`	Parity `None`	DataBits `8`		Clock `INT`
Asterisk `Off`		Stop Bits `1`	EnqAck `No`	
TR(CD) `Hi`	Check Parity `No`	SR(CH) `Lo`		
RecvPace `Xon/Xoff`	SRRXmit `No`	RR(CF) Recv `No`		
XmitPace `Xon/Xoff`	SRRInvert `No`	CS(CB) Xmit `No`	DM(CC) Xmit `No`	

- Press (f1) to save the Port 1 configuration.
- Press (Shift) and (Stop) simultaneously to return to the P.A.M. menu.

4. Configure MS-DOS as follows:
   - Run DEVICE CONFIG from the P.A.M. menu.
   - Set COM1 to Remote and press (f4) to save the configuration.
   - Press (f8) to exit DEVICE CONFIG.

5. Set up the system as follows:
   - Connect the RS-232C cable to the HP-IL/RS-232C Interface and to Port 1 of the HP 150.
   - Connect the HP-IL cables to the HP-IL/RS-232C Interface and to either the HP-71 or HP-75. NOTE: If using the HP-75, the interface must be the first device on the HP-IL loop.

6. Program the HP 150 as follows:
   - Create a file entitled "DOWNLOAD" on the HP 150 using the commands listed below. This file will be used as a command file by Advance/Link (or DSN/Link), and it is recommended that both reside on the same disc.
   - To create the file, use an HP 150 editor such as EDLIN, a word processing program such as WordStar® (in the NON-DOCUMENT MODE), or the MS-DOS Copy con (copy from console) command. To use the Copy con command, run MS-DOS commands from the P.A.M. menu.
     - Type "Copy con DOWNLOAD" and type each line of text as it appears below. Refer to the Advance/Link (or DSN/Link) Owner's Manual for a description of the commands used in the command file.
     - Where applicable, press (Shift) and (6) to input the control character "^" in the program.
     - Precede the file name with a disc drive identifier if the DOWNLOAD file is to be created on a disc other than the default.
     - Press (CTRL) (Z) to terminate the command, and type "PAM" to return to the P.A.M. menu.

Keystrokes	Comment
&MSG '^[H^[J'	Home cursor and clear display
&ASSIGN &P1	Assign P1 to text
&MSG	
&INPUT 'File to Download?',&P1	Input filename for P1
&MSG '^[&dB Downloading data...'	
&SENDFILE &P1	Send file to host
&SEND ^D	Send EOT character
&MSG	
&MSG '^[&dB Transfer Complete'	
&MSG	
&MSG '^[&dB Choose another softkey to continue.'	

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Operation

Transferring files from the HP-71 or HP-75 to the HP 150 (Upload)

This section provides an explanation of the steps required to upload TEXT files from your handheld computer to the HP 150.

1. Configure the HP 150 and run Advance/Link (or DSN/Link).

2. From the main menu, press (f4) (Logging Options), then (f1) (Local file). Enter the name of the local log file (the file to be stored after uploading) and press (Return). If a file by that name does not already exist, an asterisk will appear in the "Local File" and "Logging" key labels. The HP 150 is now ready to receive data.

3. Run "XFERPC" on the HP-71 or HP-75. When prompted, press (U) to upload data. (It is not necessary to press (ENDLINE)/ (RTN).) Enter the name of the file you wish to upload to the HP 150. "Uploading data . . ." will appear in the display.

4. Each line of uploaded data will appear in the display of the HP 150 as it is received. When the transfer is complete, press (f1) to store the uploaded file on disc.

5. "Transfer another file?" will appear in the display of the HP-71 or HP-75 when the transfer is complete. Press (Y) to transfer another file, or (N) to end the program.

Transferring files from the HP 150 to the HP-71 or HP-75 (Download)

This section provides an explanation of the steps required to download files from the HP 150 to your handheld computer.

1. Configure the HP 150 and run Advance/Link (or DSN/Link).

2. From the main menu, press (f3) (Command), then (f1) (Command File). The HP 150 will prompt for the name of the command file to be used to download files to the handheld computer. Enter "DOWNLOAD", using a disc label identifier if necessary, and press (Return).

3. Run "XFERPC" on the HP-71 or HP-75. Press (D) to download data. (It is not necessary to press (ENDLINE)/(RTN).) Enter the name of the file to be downloaded from the HP 150. This name need not be the same name as the file being downloaded from the HP 150. "Downloading data…" will appear in the display. At this point the HP-71 or HP-75 is ready to receive data.

4. On the HP 150, enter the name of the local file to be downloaded, being sure to include a disc label identifier if applicable. Press (Return) to begin the transfer. Once the data has been downloaded, "Transfer Complete" will appear in the HP 150 display.

5. "Transfer another file?" will appear in the display of the HP-71 or HP-75 when the transfer is completed. Press (Y) to transfer another file, or (N) to end the program.

6. Depending on the format of the HP 150 source file (the file being downloaded), the resulting HP-71 or HP-75 TEXT file may contain unnecessary "blank" lines. If these are unacceptable, they should be deleted.

HP-71/HP-75 to IBM PC/XT/AT File Transfers

This section provides an explanation of how to set up the system; enter the XFERPC program into your handheld computer; and set up script and command files for the Crosstalk software on the IBM.

Procedure

1. Set up the system as follows:
   - Connect the RS-232C cable to the HP-IL/RS-232C Interface and to COM1 of the IBM.
   - Connect the HP-IL cables to the HP-IL/RS-232C Interface and to either the HP-71 or HP-75. NOTE: If using the HP-75, the interface must be the first device on the HP-IL loop.

2. Enter the program XFERPC on either the HP-71 or HP-75. Be sure to use the BASIC program specified for the handheld computer you are using. If you are using the HP-75, the "HPILCMDS" file must be resident in the machine before loading XFERPC. (Both the Users' Library I/O Utilities and the HP-75 I/O ROM contain this file.)

3. If you don't already have one, follow the Crosstalk instructions to create a working copy of the Crosstalk disc. Put this disc in drive B.

4. With the MS-DOS disc in drive A, use EDLIN to input the XFERPC.XTS Script File (see programs at the end of this note) onto the Crosstalk disc. Where applicable, press ⬆ and ⑥ to input the control character "∧".

The IBM will prompt you with: A>

On IBM type in: edlin b:xferpc.xts

Press: (ENTER)

5. Make B the default drive. The IBM will prompt you with: A>

Type in: b:

Press: (ENTER)

Then load the Crosstalk software. The IBM will prompt you with: B>

Type in: xtalk

Press: (ENTER)

6. Choose NEWUSER from the selection displayed on the IBM. Set up the XFERPC.XTK file by responding to the prompts as follows (press (ENTER) after each response unless otherwise noted):

Prompts	Responses
Enter phone number:	RS232
Enter system name or comments:	XFERPC
0110,300,600,1200,2400,4800, or 9600 baud?	9600
Do you want to save this setup in a command file?	y (don't press ENTER)
Save settings in what file?	XFERPC.XTK
To begin the ... command prompt. Press ENTER:	(ENTER)
Command? (DO NOT type in GO)	LO XFERPC.XTS

7. Follow the instructions in the display on the IBM from this point on. Subsequent use of the routine will load XFERPC.XTS automatically when you load the XFERPC command file.

8. Sample prompts and responses for downloading a file named TEST from the IBM PC to the HP-71 or HP-75 are shown below.
   ■ On the IBM:

Prompts	Response
Do you want to UPLOAD, DOWNLOAD or END transfer routine?	Ⓓ
(IBM will display) To DOWNLOAD a file to the HP71 or HP75: ON HP: Run XFERPC, then following instructions in the display, choose D, enter filename. ON IBM: As requested on the command line, press ENTER, then type SEND filename then ENTER again. When COMMAND? returns, transfer is done, type in DO then ENTER.	
Script processing suspended —· use DO alone to restart. press ENTER:	

9. Implement the above instructions by doing the following:
   - On the HP-71 or HP-75, key in: run 'XFERPC' (quotation marks are optional with the HP-71)
   - Subsequent HP-71 or HP-75 prompts and your responses are:

Prompts	Responses
Upload or Download?	Ⓓ
File to Download: ?	TEST
Downloading data . . .	(no response needed)

   - Prompts and responses on the IBM are:

Prompts	Responses
	⟮ENTER⟯
Command?	send test
Sending b:test....press Esc to stop.	(no response needed)

   - Subsequent command lines on the IBM should be similar to the following:

Prompts	Responses
Command?	do
Do you want to transfer another file?	
Y or N	Ⓨ or Ⓝ

Operation

Transferring files between the IBM and HP-71 or HP-75 (Upload and Download)

This section provides an explanation of the steps required to upload and download files between the IBM and HP-71 or HP-75.

1. The first time you transfer files, follow all the steps described in the Procedure section.
2. After the first time you transfer files, follow steps 1, 2 and 5 in the Procedure section. Then:
   - Choose XFERPC from the selection displayed on the IBM.
   - To upload or download files, type in Ⓤ or Ⓓ and follow the instructions in the IBM display.
3. You will have the opportunity to end the transfer routine when you are finished uploading and downloading files. The IBM will display: Do you want to transfer another file? Y or N
   - Press Ⓨ or Ⓝ and follow the prompts.
   The HP-71 or HP-75 will display: Transfer another file?
   - Press Ⓨ to transfer another file or Ⓝ to end the program.
4. Depending on the format of the IBM source file (the file being downloaded), the resulting HP-71 or HP-75 TEXT file may contain unnecessary "blank" lines. If these are unacceptable, they should be deleted.

Programming

XFERPC Program for the HP-71 Handheld Computer

Line # Keystrokes	Comment
100 CALL XFERPC @ END !REV A 8/01/85	
110 SUB XFERPC!	
120 R$ = PEEK$('2F946',4)	Save delay setting.
130 DELAY 0,0	
140 DIM L$[96]	
150 RESTORE IO	
160 REMOTE :RS232	
170 OUTPUT :RS232 ;'SBE;C0;C2;P4,SW0;SS0;SL7;'	Configure HP 82164A using remote mode instructions.
180 LOCAL	
190 DISP 'Upload or Download?'	
200 K$ = KEY$ @ IF K$ = ' ' THEN 200	
210 IF K$ = 'U' THEN GOSUB 310	Upload to PC.
220 IF K$ = 'D' THEN GOSUB 460	Download from PC.
230 IF K$<>'U' AND K$<>'D' THEN BEEP @ GOTO 190	
240 DISP 'Transfer another file?'	
250 K$ = KEY$ @ IF K$ = ' ' THEN 250	
260 IF K$ = 'Y' THEN 190	Transfer another file.
270 IF K$ = 'N' THEN 680	End program.
280 BEEP @ GOTO 240	
290 OFF ERROR	Error handling routine.
300 DISP F$;' not found' @ BEEP @ WAIT 1	Nonexistent file name.
310 INPUT 'File to Upload: ','?';F$	Upload routine.
320 IF F$ = '?' THEN 310	
330 ON ERROR GOTO 290	
340 CAT F$	Insure specified file exists.
350 OFF ERROR	
360 DISP 'Uploading data...'	
370 ASSIGN #1 TO F$	
380 ON ERROR GOTO 430	Prepare for end-of-file condition.
390 READ #1;L$	Read a line of text.
400 OFF ERROR	
410 OUTPUT :RS232 ;L$	

Line #	Keystrokes	Comment
420	GOTO 380	
430	OFF ERROR	
440	IF ERRN<>54 THEN BEEP @ DISP 'ERR L';ERRL;':'; ERRM$ @ PAUSE	If not end of file, error halts program.
450	GOTO 630	
460	INPUT 'File to Download: ','?';F$	Download routine.
470	IF F$ = '?' THEN 460	
480	DISP 'Downloading data...'	
490	CREATE TEXT F$	
500	ASSIGN #1 TO F$	
510	DIM L1$[96]	
520	F = FLAG(−23,1)	Save Flag −23 setting and set Flag −23.
530	L$ = ' '	
540	OUTPUT :RS232 USING '#,K';CHR$(17)	Signal PC to send a line of text.
550	ENTER :RS232 ;L1$	Receive data from PC.
560	L$ = L$&L1$	Add data to current line.
570	IF NOT POS(L$,CHR$(13)) THEN 550	Check for end of record.
580	IF L$[1,1] = CHR$(4) THEN 620	Check for end of file.
590	PRINT #1;L$[1,POS(L$,CHR$(13))−1]	Store a line of text.
600	L$ = L$[POS(L$,CHR$(13)) + 1]	Update current line.
610	IF POS(L$,CHR$(13)) THEN 580 ELSE 540	Check for another end-of-record.
620	F = FLAG(−23,F)	Restore Flag −23 setting.
630	ASSIGN #1 TO *	
640	DISP 'Transfer complete'	
650	WAIT 1	
660	RETURN	
670	DISP 'Done'	
680	POKE '2F946',R$	Restore delay setting.
690	END SUB	
700	SUB VER(V$)!	Version subprogram.
710	V$ = 'A' @ END SUB	

XFERPC Program for the HP-75 Handheld Computer

Line # Keystrokes	Comment
100 ASSIGN IO ':RS'	
110 ! REV A 8/01/85	
120 DELAY 0	
130 DIM L$[96]	
140 SENDIO ':RS','UNL,REN,LAD#','SBE;C0;C2;P4;SW0;SS0;SL7;'	Configure HP 82164A using Remote mode instructions
150 SENDIO ' ','NRE',' '	
160 DISP 'Upload or Download?'	
170 K$ = UPRC$(KEY$) @ IF K$ = ' ' THEN 170	
180 IF K$ = 'U' THEN GOSUB 280	Upload to PC.
190 IF K$ = 'D' THEN GOSUB 430	Download from PC.
200 IF K$<>'U' AND K$<>'D' THEN BEEP @ GOTO 160	
210 DISP 'Transfer another file?'	
220 K$ = UPRC$(KEY$) @ IF K$ = ' ' THEN 220	
230 IF K$ = 'Y' THEN 160	Transfer another file.
240 IF K$ = 'N' THEN 610	End program.
250 BEEP @ GOTO 210	
260 OFF ERROR	Error handling routine.
270 DISP F$;' not found' @ BEEP @ WAIT 1	Nonexistent file name.
280 INPUT 'File to Upload: ','?';F$	Upload routine.
290 IF F$ = '?' THEN 280	
300 ON ERROR GOTO 260	
310 CAT F$	Insure specified file exists.
320 OFF ERROR	
330 DISP 'Uploading data...'	
340 ASSIGN # 1 TO F$	
350 ON ERROR GOTO 400	Prepare for end of file condition.
360 READ # 1 ; L$	Read a line of text.
370 OFF ERROR	
380 SENDIO ':RS','UNL,LAD#',L$&CHR$(13)&CHR$(10)	Send a line of text to PC.
390 GOTO 350	
400 OFF ERROR	
410 IF ERRN<>34 THEN BEEP @ DISP 'ERROR line';ERRL @ STOP	If not end of file, error halts program.
420 GOTO 570	
430 INPUT 'File to Download: ','?';F$	Download routine.
440 IF F$ = '?' THEN 430	
450 DISP 'Downloading data...'	
460 ASSIGN # 1 TO F$,TEXT	
470 DIM L1$[96]	
480 L$ = ' '	
490 SENDIO ':RS','UNL,LAD#',CHR$(17)	Signal PC to send a line of text.
500 L1$ = ENTIO(':RS','UNL,TAD#,SDA')	Receive data from PC.
510 L$ = L$&L1$	Add data to current file.
520 IF NOT POS(L$,CHR$(13)) THEN 500	Check for end of record.
530 IF L$[1,1] = CHR$(4) THEN 570	Check for end of file.
540 PRINT # 1 ; L$[1,POS(L$,CHR$(13))–1]	Store a line of text.
550 L$ = L$[POS(L$,CHR$(13)) + 1]	Update current line.
560 IF POS(L$,CHR$(13)) THEN 530 ELSE 490	Check for another end of record.
570 ASSIGN # 1 TO *	
580 DISP 'Transfer Complete'	
590 WAIT 1	
600 RETURN	
610 DISP 'Done'	
620 END	

XFERPC.XTS Script File for Crosstalk Transfer Program.

Line #	Keystrokes
1	LABEL Begin
2	GO LOCAL
3	screen s
4	cls
5	message
6	
7	Do you want to UPLOAD, DOWNLOAD or END transfer routine?
8	.
9	ASK Enter U, D, or E:
10	If –UDE Jump Begin
11	JUMP DO–@
12	
13	LABEL DO-U
14	screen s
15	cls
16	message
17	
18	To UPLOAD a file from the HP71 or the HP75:
19	ON IBM: As requested on Command line press ENTER, then type CA
20	filename and press ENTER again.
21	ON HP: Run XFERPC choosing U. Follow the instructions in the
22	display.
23	ON IBM: When transfer is done, type in DO and press ENTER.
24	.
25	wait MA
26	CA –
27	cls
28	ASK Do you want to transfer another file? Y or N
29	If Y rwind
30	JUMP DO-E
31	
32	LABEL DO-D
33	LW Char "^Q"
34	screen s
35	cls
36	message
37	
38	To DOWNLOAD a file to the HP71 or the HP75:
39	ON HP: Run XFERPC, then following instructions in the display, choose D,
40	enter filename.
41	ON IBM: As requested on the command line, press ENTER, then type SEND
42	filename then ENTER again. When COMMAND? returns, transfer
43	is done, type in DO then ENTER.
44	.
45	wait MA
46	REPLY "^M" Press "Crtl M"
47	REPLY "^D^M" Press "Crtl D Crtl M"
48	cls
49	ASK Do you want to transfer another file? Y or N
50	If Y rwind
51	JUMP DO-E
52	
53	LABEL DO-E
54	cls
55	ASK Do you want to leave XTALK? Y or ENTER
56	If Y QUit
57	DO-
58	LO-
59	; the end

Appendix A

Converting DATA Files to TEXT Files in Preparation for Transfer

The following program, in separate versions for the HP-71 and HP-75, can be used to convert a DATA file into a TEXT file, thus extending the functionality of the XFERPC program. This program is analogous to a hypothetical BASIC command "TRANSFORM <data file> INTO TEXT", which is not available on the HP-71 or HP-75. (Actually, the transformation of an HP-75 BASIC file containing DATA statements into TEXT is possible, but the resulting TEXT file probably won't be in the format desired for data transfer.)

The program is called DATATEXT (convert DATA file to TEXT) and works independently of the program called XFERPC. To use it in conjunction with XFERPC, run DATATEXT first to convert one or more DATA files to TEXT, then use XFERPC for the actual data transfer.

Because of the differences between DATA and TEXT files, DATATEXT must use an arbitrary method for conversion. The method is defined as follows:

- Each numeric item in a DATA file is converted to a string of the minimum number of numerals consistent with presenting maximum accuracy (this corresponds to the HP-75 display format and the HP-71 format STD). The numeral string is then stored sequentially into the TEXT file.

- Each string item in a DATA file is stored, unchanged, sequentially into the TEXT file. String items longer than 96 characters cause an error, and must be modified before using DATATEXT. (Refer to HP-71 or HP-75 Owner's Manual for details.)

Procedure

1. Load the correct version of DATATEXT into the HP-71 or HP-75. Note that during the conversion process, DATATEXT requires that there be enough free RAM for both the original DATA file (if in main memory) and the resulting TEXT file.

2. Type: RUN "DATATEXT" [ENDLINE] / [RTN]. (Quotation marks are optional with the HP-71.)

3. At the prompt, "DATA file: ?", key in the name of the DATA file to be converted to TEXT and press [ENDLINE] / [RTN]. With an HP-75, the DATA file must be in main memory; with an HP-71, a DATA file on mass storage or independent RAM can be indicated by appending a device specifier to the file name.

4. The computer will display "* Working *" as each DATA file item is converted to text and stored into a dummy TEXT file called "XXX".

   - When completed, the computer will purge the original DATA file, so be sure to keep a copy if needed.

   - Next, the computer will rename or copy the dummy file "XXX" to the original DATA file name, purge "XXX" (if applicable), and then display "Done".

Programming
DATATEXT Program for the HP-71

Line # Keystrokes	Comment
100 CALL DATATEXT	
110 END	
120 SUB DATATEXT!	
130 R$ = PEEK$('2F946',4)	Save DELAY setting.
140 DELAY 0	
150 D$ = PEEK$('2F6D9',5)	Save display format.
160 STD	
170 DIM S$[96]	
180 INPUT 'DATA file: ','?';F$	
190 DISP TAB(6);'* Working *'	
200 CREATE TEXT XXX	Create dummy TEXT file.
210 ASSIGN #1 TO F$	
220 ASSIGN #2 TO XXX	
230 ON ERROR GOTO 310	Set up "data type" and end of file detection.
240 READ #1;N	Attempt to read numeric item.
250 OFF ERROR	
260 S$ = STR$(N)	Convert numeric item to string.
270 GOTO 290	
280 READ #1;S$	Read string item.
290 PRINT #2;S$	Store string item or string-formatted numeric item.
300 GOTO 230	
310 OFF ERROR	Error handling routine.
320 IF ERRN = 31 THEN 280	If error is "data type", read string item.
330 IF ERRN<>54 THEN BEEP @ DISP 'ERR L';ERRL;':';ERRM$ @ PAUSE	If not end of file, error halts program.
340 ASSIGN #1 TO *	
350 ASSIGN #2 TO *	
360 PURGE F$	
370 COPY XXX TO F$	Copy new file to old file name.
380 PURGE XXX	
390 POKE '2F6D9',D$	Restore display format.
400 DISP 'Done'	
410 POKE '2F946',R$	Restore DELAY setting.
420 END SUB	

Program on next page

DATATEXT Program for the HP-75

Line # Keystrokes	Comment
100 DELAY 0	
110 DIM S$[96]	
120 INPUT 'DATA file: ','?';F$	
130 DISP TAB(12);'* Working *'	
140 ASSIGN #1 TO F$	
150 ASSIGN #2 TO "XXX",TEXT	Create dummy TEXT file.
160 ON ERROR GOTO 210	Set up end of file detection.
170 READ #1 ; S$	Read string item or numeric item in string format.
180 OFF ERROR	
190 PRINT #2 ; S$	Save string item or string-formatted numeric item.
200 GOTO 160	
210 OFF ERROR	Error handling routine.
220 IF ERRN<>34 THEN BEEP @ DISP 'ERROR line';ERRL @ STOP	If not end of file, error halts program.
230 ASSIGN #1 TO *	
240 ASSIGN #2 TO *	
250 PURGE F$	
260 RENAME 'XXX' TO F$	Copy new file to old file name.
270 DISP 'Done'	
280 END	