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### **Notes From the Editor**



#### Welcome to Issue #6 of the Series 100 Communicator

Gary Baughman

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	This magazine presents information about your HP Series 100 computer which we think will interest you: application hints, programming tips, and helpful answers to some common questions. The Software Status Bulletin section is a current list of all known problems with available solution information. The articles span several levels of expertise—ranging from the casual user to the experienced programmer. In addition, we briefly describe new Series 100 products and how they affect you as a Series 100 owner.	
How To Receive the Communicator	A Communicator subscription is available as the HP 45530N Series 100 Softwar Notification Service and is included as part of the HP 45530K HP 120/125 System Information Service. Ordering instructions are given under "Communicator Subscriptions" in the "Ordering Information" section of this issue.	
How To Obtain Back Issues	Back issues are available through Authorized HP Personal Computer Dealer through HP Sales and Service Offices, or directly from HP's Computer Supplies Operation. Ordering instructions and an index of available issues a given under "Communicator Back Issues" in the "Ordering Information" section of this issue.	
How to Become a Contributor	Much of the material in this issue came from users and HP field support people. If you would like to contribute, address your article, program, suggestion or question to:  Series 100 Communicator Editor Hewlett-Packard Company 978 E. Arques Avenue Sunnyvale, CA 94086 USA  If you submit an article or program to the Communicator, you agree that the material is not confidential and that HP may use, duplicate, modify, publish, or sell it without obligation or liability to you or anyone else. If HP publishes the item in the Communicator, we will acknowledge you as the author. Material	

or sell it without obligation or liability to you or anyone else. If HP publishes the item in the *Communicator*, we will acknowledge you as the author. Material that you send to us may not be returned.

We look forward to bringing your ideas to the attention of the world-wide Series 100 user community through the *Series 100 Communicator*.

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In addition to Series 100 Graphics, several third-party graphics packages are available from Computer Support Corporation for your HP 120 or HP 125. CSC, located in Dallas, Texas, sells and supports graphics software for HP 2647A and HP 2647F terminals as well as the HP 9816 and HP 9836 Personal Technical Computers.

#### CSC/PLOT

CSC/PLOT is a set of local menu-driven programs allowing nontechnical users to design and produce fully annotated charts on paper or acetate film for overhead transparencies. Similar to Series 100/Graphics, data is entered by filling in a preformatted menu on the screen. Each of the program options has a default value which reduces the amount of time and effort required to complete the menu for standard charts. The user may override the default values for specialized charts. The menu can be stored for future recall and updating. Function keys are implemented to allow for simple disc and other operations.

Five separate graphics packages available for the Series 100 are included in the set:

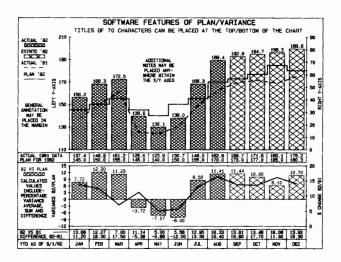
- CSC/Plan/Variance<sup>™</sup>
- CSC/Horizontal (horizontal bar charts)
- CSC/Vertical (vertical bar charts)
- CSC/Pie (pie charts)
- CSC/Linear (linear charts)

With the HP 2647 terminal, HP 9816, and HP 9836, three additional packages (CSC/Complex, CSC/Stencil and CSC/Diagraph) are also offered. These programs provide dynamic bar chart menus, text slides, and organization charts/flow diagrams through the use of symbols.

All of the five Series 100 packages provide for enhanced graphics flexibility for the user who desires more sophisticated presentations.

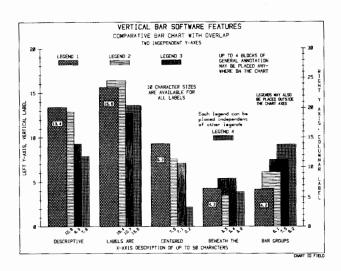
#### Plan/Variance

Plan/Variance is designed specifically for the presentation of Financial/ Accounting data, yet may be used for any application to compare different groups of data and graphically format the results of the comparison (e.g., current values may be contrasted against historical and/or estimated data). The program combines linear, bar, and tabular chart features and produces one or two graphs on a page. The two graphs can represent independent groups of data or you can choose to relate the charts using the calculation capabilities of the program.



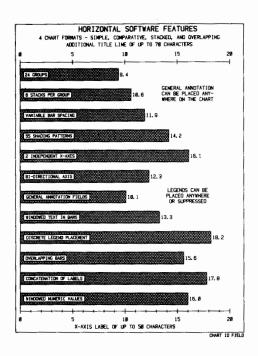
#### CSC/Vertical

CSC Vertical allows for simple, stacked, comparative (all with up to 24 bars), and overlapping bar charts with hidden surfaces. In addition, you may place values inside windows within the bar shadings and create vertical bi-directional bar charts.



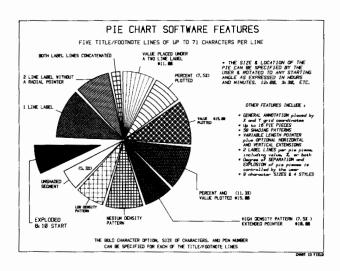
#### CSC/Horizontal

CSC/Horizontal adds features to CSC/Vertical, including a bi-directional axis which can draw in two directions from a midpoint value. The right and left scales are positive in both directions and the values at the extremes are independent of each other.



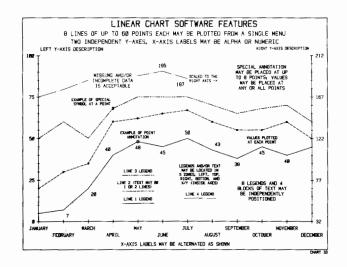
#### CSC/Pie

CSC/Pie gives you precise control over the size, placement and organization of a pie chart.



#### CSC/Linear

CSC/Linear produces linear charts from a single menu in a one-pass operation. The design of the menu provides you with a simple means of presenting data in a linear format, with emphasis on one-step production of fully annotated charts. Additional features include plotting up to 8 lines of 48 points (more from tape), plotting of actual values, placement of a point and general annotation anywhere on the chart and two independent Y-axes.



#### **Purchase and Support**

CSC distributes and supports these packages. Presently, Series 100/Graphics must be licensed from Hewlett-Packard prior to the installation of any CSC graphics programs, as these packages utilize the drivers within HP graphics software. When ordering, be sure to specify the size of HP media you desire (3.5", 5.25", or 8"). Software support, including phone-in consulting, automatic updating of software, and documentation revisions are available from CSC at an annual fee. CSC also offers graphics seminars around the U.S. upon request.

All plotters presently available for use on the Series 100 will work with CSC software.

For further information contact:

Computer Support Corporation 4215 Beltwood Parkway Dallas, Texas 75234 (214) 661-8960



The WordStar/100 Quick Reference Guide has been updated. It now includes a softkey tree of all the WordStar/100 softkeys in an easy-to-understand format. We've also updated the dot commands to include their acronyms and divided them up for easier access. The new order number is 45560-60001 for a package of five cards.

To order, refer to the documentation list in the "Ordering Information" section of this issue. If you have a 45530K Series 100 Base System Information Service subscription, a copy is on the way.

#### WordStar/100 Softkeys

Initial Menu

#### OPEN NON DOCUMENT RUN SPELSTAR RUN PROGRAM CONFIG MENU Initial Menu EXIT OPEN NON DOCUMENT RUN SPELSTAR RUN MAILMERG DELETÉ A FILE initial menu Initial Menu OPEN NON DOCUMENT print options RUN MAILMERG Main Menu cupy & format & find margin & tabs help & modes SET HELP LEVEL DISPLAY HELP MENU DISPLAY PRT CTL\* main menu DISPLAY PRT CTL\* main menu printer setup BOLDFACE BEG/END UNDERLIN BEG/END SUBSCRPT BEG/END DBLSTRIK BEG/END OVR PRINT: PORT 2 PRINTER\* MARK BLK START MARK BLK END copy & other keys MOVE BLOCK COLUMN MODE\* DELETE other keys GOTO BLK START GOTO BLK END format & find FND/REPL AGAIN REPEAT WORD LEFT WORD RIGHT DEL WORD AT RIGHT general editing PREVIOUS CURSOR WORD LEFT RIGHT SIDE TOP SCREEN SCREEN PREVIOUS FIND/BLK GO TO MARK 0-9 margins & tabs SET TAB MARGIN RELEASE MRGN/TAB FRM LINE CLEAR ALL TABS SPACES FOR TAB\* file & exit ABANDON EDIT SAVE & END EDIT SAVE & WRITE A BLOCK DELETE A FILE

#### Peachtree Software™ Available on the Series 100



In order to provide Series 100 customers a greater range of financial software from which to choose, HP is now offering the Peachtree Series 8 accounting series of software products.

They are designed around U.S. accounting practices and include:

HP Part Number	Product
45589A	General Ledger
45590A	Accounts Receivable
45593A	Accounts Payable
45592A	Inventory Control
45594A	PeachPay™ Payroll
45591A	Sales Invoicing

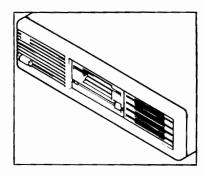
Some of the features of the Peachtree software not previously available in software sold by HP for the Series 100 include:

- Comparative Financial Statements. You can produce financial statements showing this month, year-to-date budget and last-year-this-month or last-year-year-to-date.
- Flexible Chart of Accounts. Peachtree's chart of accounts provides greater capability for defining summation levels and types.
- Up to 99 departments may be defined in your general ledger using Peachtree.

### How to Obtain Peachtree Software

To order, check with the authorized HP dealer nearest you. Note that Peachtree software sold for use on the HP Series 80 computers will not work on the Series 100 and vice-versa.

#### New Auto Shutter for 31/2" Micro Flexible Discs



HP 3½-inch microfloppy drives and media used with the HP Series 100 now feature an Auto Shutter capability. The new Auto Shutter increases media protection by automatically opening the contamination shield when the disc is inserted in the drive and closing it upon removal. The new mechanism for operating the Auto Shutter on the HP 9121D/S and 9133A/B is installed on all drives now being shipped.

All HP 3½-inch media is now Auto Shutter and is identified on the contamination shield as such. For both media and disc drives, the part numbers and prices remain the same. The Auto Shutter discs and disc drives are completely compatible with non-Auto Shutter discs and disc drives. Therefore, you can use non-Auto Shutter discs in Auto Shutter drives by simply opening the contamination shield before inserting the disc and closing it after taking the disc out. Similarly, Auto Shutter discs can be used in non-Auto Shutter drives by following the same procedure.

Major software packs are available on Auto Shutter discs. Both HP software and HP PLUS software have been converted to the new media.

### How to Obtain the New Auto Shutter Feature

For HP Series 100 users who have a non-Auto Shutter drive and would like to have Auto Shutter, there is an update kit (P/N 09121-88875) available. The kit includes a single auto shutter drive mechanism to be installed in HP field repair centers. For further information, contact your local HP authorized dealer or HP Field Repair Center.



An enhanced version of Series 100/DSN/Link is available which provides Series 100 to Series 100 file and message transfers. In addition, the new version now works on HP 3000 Series 64 systems with more than 127 entries in the Device Reference Table.

The new Series 100/DSN/Link includes two diskettes: *DSN/Link* which initiates file transfers and *DSN/Monitor*, the Series 100 monitor (host) program. To transfer files or send messages between two Series 100 computers using the enhanced DSN/Link, simply connect two Series 100 computers (RS-232C, direct or modem). Next load the *DSN/Link* program in one computer, *DSN/Monitor* in the other, and direct the transfers using *DSN/Link* softkeys. Since all transactions are initiated by the DSN/Link operator, once *DSN/Monitor* is loaded, the monitor workstation is automated.

Additional features included in a Series 100 to Series 100 transfer using the enhanced Series 100 DSN/Link include:

- Error checking with automatic retransmission which ensures data integrity.
- Host Series 100 password can be activated for host system file security
- Commands received by the host system can be logged to disc or printer.
- Binary file transfer enabling exact file transfer from applications such as Word, WordStar or Graphics.
- Interactive Series 100 to Series 100 message transmissions.

### How to Obtain the Enhanced DSN/Link

Refer to the "Ordering Information" section of this issue for ordering instructions on the DSN/Link Software Update Kit.

#### Microsoft<sup>™</sup> BASIC Compiler



The Microsoft BASIC Compiler is an optimizing compiler designed to complement the Microsoft BASIC-80 interpreter available for the HP Series 100 as Series 100/BASIC.

#### **Compiler Advantages**

The BASIC Compiler allows you to create programs that:

- Execute faster, in most cases, than the same interpreted programs,
- Require less memory, in most cases, than the same interpreted programs, and
- Can be distributed in secure compiled form.

These benefits can be critical for time-sensitive applications where execution speed can often make or break an application; in business applications, where several CHAINed programs can be supported by a main menu in a single run-time environment; and where software is being sold in a competitive marketplace and source-code security is essential.

Because the BASIC Compiler has been created to support most of the interpreted Series 100/BASIC language, the interpreter and the compiler complement each other—and provide you with a powerful BASIC programming environment. In this environment, you can run and debug programs from within Series 100/BASIC, and then later compile those programs to increase their speed of execution and to decrease their space in memory.

Although the language supported by the BASIC Compiler is not identical to that supported by the interpreter, the compiler has been designed so that compatibility is maintained wherever possible.

One file contains the majority of the run-time environment. This run-time module is loaded when program execution begins; later execution of CHAINed programs does not require reloading. This allows you to develop a system of related programs that can all be run using the same run-time environment. The run-time environment required by your program need not be saved on disk as part of your executable .COM file. For a system of four programs, this can save at least 48K of disk space—a substantial savings.

#### One User Experience

A Series 100 OEM wrote an insurance rating application, which originally ran in the Series 100/BASIC interpretive mode. This application is speed-dependent, as it is primarily a table lookup application that is actually performed with the client present. In interpretive mode, it took approximately 45 seconds to rate one automobile policy with one insurance company. An agent typically wants to rate at least three companies for his clients to ensure that they get the best price. This meant that it took 2 minutes and 15 seconds to rate one automobile with three companies. To rate two automobiles with three companies it took over 4 minutes. In short, the speed was unacceptable.

During the conversion, the OEM discovered that several of their programs would not fit in 64K of memory. They did not want to constantly be overlaying one module of their program onto another. Their other concern was with releasing valuable software to customers without having security of the source code.

After examining several compilers and other programming languages, they decided to use HP's Series 100/BASIC together with Microsoft's BASIC Compiler. This compiler has operated very satisfactorily and resolved their three basic concerns. Run time on the rating program went from 45 seconds down to 10 seconds, all of their programs fit into 64K bytes of memory, and using the object code resolved their source code security problem.

### How to Obtain the Microsoft BASIC Compiler

Microsoft's BASIC Compiler is available from your HP dealer in HP 8" or  $5\frac{1}{4}$ " format.

### **About Applications**



#### Using Block/Format on the Series 100

**Eunice Yan** 



Sometimes when you try to load the Block/Format utility into an HP 125B or an HP 120 system, you may get an error message, "Illegal ROM id". When this happens, it usually indicates that you are loading an earlier version of Block/Format into a system that contains Revision C (Rev C) terminal firmware ROMs.

The Block/Format utility for the Series 100 systems makes extensive use of terminal firmware; therefore, it depends highly on the firmware ROMs that are installed in the system. Depending on which ROM revision is installed, the utility loads the appropriate data file (BFDATA.A or BFDATA.B) into the system. If Rev A ROMs are installed, the utility loads BFDATA.A into the system; otherwise, BFDATA.B is loaded instead.

#### Loading Block/Format Locally

The first release of Block/Format version A.01.00 works with both Rev A and Rev B firmware. The HP 125B and the HP 120 systems have Rev C ROMs. As a result, the second Block/Format version A.01.10 was implemented to recognize Rev C firmware. When the utility detects that Rev C ROMs are installed, it loads BFDATA.B into the system. Functionally, the two Block/Format versions are the same.

To identify the firmware ROMs installed in your system, press the following softkey sequence from the 'AIDS' level of softkeys:

- 1. AIDS
- 2. service keys (f3)
- 3. IDENTIFY ROMS (f6)

After you press the above keys, five sets of numbers are displayed on the screen. These numbers identify different firmware ROMs installed in your system. The rightmost column consists of the datecodes for all firmware ROMs. The Block/Format utility only checks the datecode from the first set of ROMs. The following table lists the relationship between the first set of ROM identification (ROM ID) and a revision letter.

ROM ID	Revision
1818-1645-2121	Α
1818-1841-2144	В
1818-3133-2238	C

#### Loading Block/Format Remotely

While Block/Format is primarily intended to be loaded into terminal memory from a local disc, it is possible to load the same code (BFDATA.A or BFDATA.B) from a remote computer system such as the HP 3000. A program on the HP 3000 can request the Series 100 firmware datecode and load the appropriate data file. If the datecode is '2121', then BFDATA.A should be loaded. If the datecode is '2144' or '2238', then BFDATA.B should be loaded. Consequently, if you already have such a program running with an HP 125A (with Rev A or Rev B firmware), you may want to modify it to also run with an HP 125B or an HP 120 (with Rev C firmware). The only modification is to load BFDATA.B when the datecode is '2238'.

#### Ordering Block/Format A.01.10

To obtain the updated version of Block/Format version A.01.10, refer to the "Ordering Information" section of this issue for ordering instructions on Operating System and Utility Upgrade Kit.



In issue No. 4 of the *Communicator* there was an article which gave the procedure for printing 4"x1" tractor feed labels from Series 100/Condor. There were some problems in the procedure for using WordStar to print the labels. The procedure for using Wordstar has been updated and is included in the following article.

#### WordStar/100:

To have Condor set up the database in the format for WordStar, follow these steps:

>>Write RESULT ADDRESS[B]<CR>

The write command with the [B] option (note: capital B) writes the information in the RESULT database to the ADDRESS database in a BASIC format (data item in quotes, comma after each field, carriage return and line feed after each record).

>>System<CR>

The System command is used to exit from Condor.

ADDRESS looks like this:

"John", "Smith", "978 E. Arques", "Sunnyvale", "CA", "94086" <

The Customer address file is now ready.

Go into WordStar and produce a "letter" which contains .DF (Data File command), .RV (Read Value command), .MT and .MB (suppress top and bottom margin command) and the data fields to be merged. The following ten lines contain an example letter, called LETTER2, which can be used in WordStar to create a 4"x1" tractor feed label.

- ..LETTER2
- .MT 0
- .MB0
- .DF ADDRESS
- .RV Firstname, Lastname, Street, City, State, Zipcode

&Firstname& &Lastname& &Street& &City& &State& &Zipcode&

#### Explanation

..LETTER2 = Comment which gives the file name

.MT = Changes the number of blank lines at the top of the page to 0.
 .MB = Changes the number of blank lines at the bottom of the

page to 0.

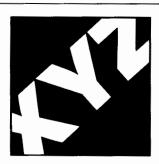
.DF = Specifies ADDRESS as the data file.

.RV = Specifies the fields to read from the data file.

NOTE: the total letter contains 6 lines: three blank lines after the dot commands and three lines for the body of the "letter". Six lines are required for the 4"x1" labels.

Since both the customer list (ADDRESS) and the customer "letter" (LETTER2) have been created and saved, MailMerge can now be executed.

Action to take	Result
Softkey: Run MailMerge	Runs MailMerge Program
Type: LETTER2	Enters the name of file to MailMerge
Type: <cr></cr>	Defaults to no file output
Type: <cr></cr>	Defaults to beginning
Type: <cr></cr>	Defaults for end
Type: <cr></cr>	Defaults to one copy
Type: <cr></cr>	Defaults to no suppression
Type: N	Specifies continuous print
Type: <cr></cr>	Begins printing of labels



In issue No. 5 of the Communicator we spoke about two-column print. Just an update. The same method can be applied to as many columns as you can fit within your margins using the technique mentioned in the article.

There is also a second method of doing multiple-column print using the dot command .po (page offset) and re-feeding your paper into your printer. A simple three-column example is shown below. You could make more columns as needed. A .mt 0 (margin at top) placed above the top of your first column will aid you in preventing the paper from being moved up three spaces after you've lined it up on the printer.

#### **Actual File**

.mt 0
This is an example of creating multiple columns using the dot command for page off-set. First you type the text of your column with a left hand margin of (1) and a right hand margin of (1) hand margin of (1) and a right hand margin of (22). When you want your first column to end and your second column to begin you type a .pa to eject the paper..pa

type a .pa to eject the paper.
.pa
.po 32
Your text will break at this point and you should reinsert your paper into the printer so that the second column can be printed. The second column should begin with a dot command of .po 32, (this means page off set). This will make the column offset 32 spaces from the left hand margin. You can then repeat the same procedure for your third column. Type your .pa command for new page .pa .pa

.pa
po 56
You reinsert your
paper and your third
column will be
printed. The dot
command for the top of your third column should be po 56. You can get as creative as you'd like and change your column widths and number of columns as needed.

#### Final Columnar Version

end and your second column to begin you type a .pa to eject the paper.

This is an example of Your text will break creating multiple at this point and you columns using the dot should reinsert your command for page off- paper into the printer set. First you type so that the second the text of your column can be printed. column with a left The second column hand margin of (1) and should begin with a a right hand margin of dot command of .po 32, (22). When you want (this means page off your first column to set). This will make end and your second the column offset 32 Your text will break at this point and you should reinsert your paper into the printer so that the second column can be printed. The second column should begin with a dot command of .po 32, (this means page off set). This will make the column offset 32 spaces from the left hand margin. You can then repeat the same procedure for your third column. Type your .pa command for your .pa command for new page.

reinsert

#### Remote Access to the HP 125

Stan Helmle



The utility presented in this article was written to handle the problem of controlling an HP 125 located at a remote site. It enables a user at one location using a terminal (TERMINAL) to execute most CP/M commands and run simple applications (not requiring device mapping) on a remote HP 125 system (HOST) via modem. The user at the HOST system can view what is taking place but cannot intervene since the keyboard is disabled. (Note that the TERMINAL could also be a Series 100 computer acting as a terminal.)

Before executing the utility, configure Port #1 on the HOST to the appropriate modem. To make sure that the HOST and TERMINAL are communicating to one another, type some characters at the TERMINAL while both the HOST and TERMINAL are in remote mode. The characters should appear on the HOST's screen. Once the connection has been confirmed, you are ready to run the utility.

The utility is run on the HOST system from Series 100/BASIC. Once BASIC has been loaded into the HOST, the utility can be run with the following command (note, WELCOME must be disabled on the HOST):

#### RUN "REMOTE"

The HOST then prompts with:

#### (S)ETUP OR (R)ESET?

To prepare the HOST for remote access, type S on the HOST and press RETURN. The HOST system is now in a mode to be accessed from the TERMINAL at the other location via the modems. The HOST can be restored to normal by running the REMOTE utility at the HOST (note that it must be invoked by the TERMINAL since it is in control), typing R and pressing RETURN

One note: Although the REMOTE utility was written for use with the HP 125, it should work equally well on the HP 120.

[Our thanks to Stan Helmle of Advanced System Design Inc., Lodi, California, for this article.]

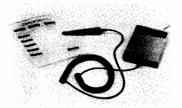
```
10 REM "REMOTE"—REMOTE DIAL-UP UTILITY (S. HELMLE)
20 REM 12-20-83: REV XX-XX-XX -X
30 REM
31 REM Advanced Systems Design, Inc.
32 REM 1150 Orangewood Dr.
33 REM Lodi, CA 95240
34 REM © Copyright 1982 Advanced Systems Design, Inc.
35 REM All Rights Reserved
36 REM
37 REM No commercial or money making ventures may be
38 REM entered into with regard to this software (in
39 REM its present form or modified).
40 REM It is intended for personal use only. All
41 REM copies must include this note and the company's
42 REM name and copyright as listed above. The company
43 REM retains the right to use this program for any
44 REM purpose it may desire (commercial or otherwise).
45 REM
100 REM ***** SOURCE DEVICES *****
101 REM
          0 —Datacomm Port #1
102 REM
          7 —Keyboard
103 REM
         8 —CP/M Console Buffer
104 REM 32 —"Self"
150 REM ***** DESTINATION DEVICES *****
151 REM 16 —Datacomm Port #1
152 REM 23 —HP125 CRT Display
153 REM 24 —CP/M Console Buffer
```

```
200 REM ***** MODES *****
201 REM 4 —Additional Mapping
202 REM 5 —Process ESC / Additional Mapping
203 REM 6 —Do Not Process ESC / Additional Mapping
204 REM 8 —Un-Map Specified Device
500 REM ************ INIT **********
510 E\$ = CRH\$(27)
800 REM ******** SELECTION *********
905 PRINT E$ + "H" + E$ + "J"
910 PRINT SPC(15);E$ + "&dJ" + "REMOTE LOGON UTILITY" + E$ + "&d@"
920 PRINT "(C) Copyright 1982 Advanced Systems Design, Inc."
925 PRINT "All Rights Reserved"
930 PRINT
935 PRINT "(S)ETUP OR (R)ESET? ";
940 LINE INPUT Z$: IF LEN(Z$) = 0 THEN 9900
945 IF Z$="S" THEN 1000
950 IF Z4 = "R" THEN 2000
955 GOTO 900
1000 REM ******** REMOTE LOGON ********
1010 PRINT E$ + "&i0s24d4M"
1020 PRINT E$ + "&i7s24d8M"
1030 PRINT E$ + "&i8s15d6M"
1040 GOTO 9900
2000 REM ******** RESET HP125 ********
2010 PRINT E$ + "&i32s5M"
2020 PRINT E$ + "f"
2030 PRINT E$ + "&i8s23d5M"
2040 PRINT E$ + "&i8s16d8M"
2050 PRINT E$ + "&i7s24d5M"
2060 PRINT E$ + "&i;0s24d8M"
9900 REM ******** END OF PROGRAM ********
9910 SYSTEM
```

### Hardware Headlines

#### Using the 92911A Bar Code Reader on the HP 125

Gene Lee



The HP 92911A Bar Code Reader is Hewlett-Packard's solution for increasing the accuracy and speed of entering precise data. Applications might include customer account numbers, inventory stock numbers, or medical records documentation. The HP 92911A was originally designed to work with certain types of HP terminals. It turns out, however, that with two caveats the HP 92911A can work with the HP 125A or B as well.

First, the bar code reader does *not* work with the HP 120A. This is because the HP 120 uses a keyboard connector similar to connectors used with plug-in telephones instead of the 15 pin keyboard connector used in the HP 125. Second, since it was not originally designed to work with the HP 125, HP does not recognize the 92911A as an officially supported device for use with either the HP 125A or B. One reason is that HP has not tested the combination to determine if it meets FCC RFI requirements. So, while the HP 92911A will work with the HP 125 to read bar codes, it is not a supported configuration.

For customers who understand these caveats and still want bar code capability, the HP 92911A can be a very useful input device on the HP 125.

#### Connection to the HP 125

The HP 92911A consists of a bar code wand that is attached to a decoder pod by a coiled cable. The decoder pod interfaces through the keyboard cable (i.e. it is connected in series with the keyboard). It takes its power from the HP 125; there is no power cord or external power supply.

Data is entered in the HP 125 from the reader in a similar way as from the keyboard. The computer does not even know there is a bar code reader, which means the HP 92911A is totally transparent to the application software.

When an HP 92911A is connected to the HP 125, the keyboard is still accessible to the user. The bar code reader and keyboard can be used separately or entries can be mixed in the same application, as required.

#### **Product Characteristics**

The HP 92911A Bar Code Reader features:

#### ■ Two types of wands

Standard. A medium resolution wand, denoted "12 mils wand" (resolution 0.03mm/0.012in).

Option 053. A high resolution wand, denoted "6 mils wand" (resolution 0.15mm/0.006in).

#### ■ Two readable codes

Interleaved 2 out of 5. A numeric only code, also known as material handling industry standard USD 1 (Uniform Symbol Description).

Code 3 of 9. An alphanumeric code, also known as "Code 39" (a registered trademark of INTERMEC), or as industry standard USD 3.

#### ■ Two internal checks for data security

Check digit verification. A check sum character (encoded using a known algorithm) appended to the bar code pattern.

Field length check. The number of characters in the message(s) to be read can be selected and verified by the reader.

#### ■ Message terminator character

A terminator character (Carriage Return, octal 015) may be automatically appended to the string of data characters.

For further information on the 92911A Bar Code reader, contact your local HP sales and service office.



The Diablo 630/104 high quality printer and a Series 100 computer (an HP 120 or an HP 125) can work together to add high quality print capability to your personal workstation. The following article documents the procedure for getting the Diablo 630 up and running on the Series 100.

There are three things that must be taken into consideration when connecting the Diablo 630 printer to an HP 120 or 125: the Series 100 configuration menu, the configuration settings on the printer itself, and the proper cable. Each of these areas is described in detail below.

#### 1. HP 120/125 Configuration

#### TERMINAL CONFIGURATION

#### DATA COMMUNICATIONS / SERIAL PRINTER Port 2

#### **OPSYS GENERAL LIST DEVICE**

Display OFF IntPtr OFF

Port 2 ON HPIB OFF

\_\_\_\_\_

\*\*Don't forget to set the printer modes on the Series 100 to PORT 2 PRINTER

#### 2. Diablo 630 Configuration

#### HPR05 Board--

Switch Block A60: jumper pins 3 and 4

Switch Block A66: 1-6 ON 7-8 OFF

Right-Hand DIP Switches (under access cover)

Switches 1,5: ON Switches 2-4, 6-8: OFF

### 3. RS-232C Cable Configuration [HP 13242G]

2 to 3	5 & 6 to 20	11 & 19 to 12
3 to 2	7 to 7	12 to 11 & 19
4 to 8	8 to 4	20 to 5 & 6

With the right configurations and the proper cable you should be well on your way to printing high quality documents with the Diablo 630.

[Our thanks to Pete Roche of PAR Group, San Francisco, California, for this article.]

### Programmer's Potpourri

#### An Alternative to ALPHASORT for Series 100/Word

R. Supramaniam



A BASIC program may be a more efficient alternative to the ALPHASORT macro of Series 100/Word. The following program can perform an alphabetical sort of 150 names, each with eight lines of addresses in about five or six minutes. The same task took more than an hour using the ALPHASORT macro.

The Shell-Metzner sorting algorithm is used as a basis for the program. The steps are:

- 1. The file created by Series 100/Word is read.
- 2. The length of each line is pre-fixed to the line, except for the line to be sorted, and written back into a random file.
- 3. The record number is appended to the line to be sorted.
- 4. The sort is performed.
- 5. Record numbers are extracted and the output file, which is the resulting sorted file, becomes the new Series 100/Word file.

One final note: the field length defined for the random file (line 170 and 640 of the program) is arbitrary. If possible, reduce this length to accommodate the longest line. The shorter the record length, the less disc memory required as a working area. The listing of the sort utility follows.

[Our thanks to R. Supramanian of Malaysian Rubber Research and Development Board, Kuala Lumpur, Malaysia, for this article.]

```
10 PRINT CHR$(27) + "H":PRINT CHR$(27) + "J"
30 PRINT TAB(10) '********** ALPHA SORT **********
40 PRINT CHR$(10), TAB(15);"ENTER CORRECT PARAMETERS";CHR$(10)
50 PRINT TAB(15); "SORT ON LINE NUMBER";:INPUT ILINE:PRINT
70 PRINT TAB(15);"NUMBER OF LINES PER ADDRESS";:INPUT;NLINE:PRINT
90 \text{ II} = 0
100 PRINT TAB(15) "ESTIMATED NO. OF RECORDS";:INPUT NRECS:PRINT
120 PRINT TAB(15) "INPUT FILE NAME";:INPUT INFILE$
130 IF INFILE$ = "" THEN END
140 PRINT TAB(15) "OUTPUT FILE NAME";:INPUT OUTFILE$
150 IF OUTFILE$ = "" THEN END
160 OPEN "R",1,"SCRATCH"
170 FIELD #1, 70 AS AD$
180 DIM.ANAMES$(NRECS)
190 IF NLINE<0 THEN END
200 IF ILINE<0 THEN ILINE=1
210 OPEN "I", #3, INFILE$
220 FOR COUNT = 1 to NRECS + 10
230 FOR L=1 TO NLINE
240 CODE$=""
250 LINE INPUT #3, ADDR$
260 ON ERROR GOTO 440
270 II = II + 1
280 LENGTH = LEN(ADDR$)
290 IF LENGTH>9 THEN LTH$ = STR$(LENGTH):GOTO 310
300 LTH\$ = "0" + STR\$(LENGTH)
310 DD\$ = LTH\$ + ADDR\$
320 LSET AD$ = DD$
330 PUT #1
340 IF L<>ILINE THEN 420
350 IL = II-ILINE + 1
360 IF IL<10 THEN CODE$ = "000" + STR$(IL):GOTO 400
370 IF IL>9 AND IL <100 THEN CODE$ = "00" + STR$(IL):GOTO 400
380 IF IL>99 AND IL <1000 THEN CODE$ = "0" + STR$(IL):GOTO 400
390 \text{ CODE}$ = STR$(IL)
```

```
400 DUMMY$ = ADDR$ + CODE$
410 ANAMES$(COUNT) = DUMMY$
420 NEXT L
430 NEXT COUNT
440 PRINT "END OF INPUT"
450 \text{ COUNT} = \text{COUNT} - 1
460 N = COUNT
465 REM SORT ROUTINE
470 M = N
480 M = M/2
490 M = INT(M)
500 \text{ IF M} < = 0 \text{ THEN } 610
510 K = N - M
520 J = 1
530 I = J
540 L = I + M
550 IF( ANAMES$(I) > ANAMES$(L)) THEN 560 ELSE 590
560 SWAP ANAMES$(I), ANAMES$(L)
570 I = I - M
580 IF I<1 THEN 590 ELSE 540
590 J = J + 1
600 IF J>K THEN 480 ELSE 530
610 CLOSE #1,#3
630 OPEN "R",1, "SCRATCH"
640 FIELD #1,70 AS AD$
650 OPEN "0",2,OUTFILE$
660 FOR J = 1 TO COUNT
670 R\$ = RIGHT\$ (ANAMES\$(J),4)
680 RECNO = VAL(R\$)
690 FOR M = 1 TO NLINE
700 GET #1, RECNO
710 LENGTH = VAL(LEFT\$(AD\$,3))
720 \text{ AD1}$ = MID$(AD$,4,LENGTH)
730 RECNO = RECNO + 1
740 PRINT #2, AD1$
750 NEXT M
760 NEXT I
770 KILL "SCRATCH"
780 END
```

### Software Status Bulletin

#### **Software Problem Reports**



The Software Status Bulletin is a cumulative list of all software problems that have been reported on the Series 100. New entries since the last issue are marked with a star.

omputer

#### Operating System— Release A.01.20

**Problem:** Upon using extended system function call 125 to send an 80-character message to message window, the 80th character is lost and the window is displayed in inverse video.

Workaround: Limit messages to 79 characters.

**Problem:** A file with a leading "\$" in the name causes WELCOME not to load on bootup.

Workaround: Don't use "\$" in file names.

\* Problem: When the Series 100 encounters a deleted file on an IBM 3740 type disc, it displays a "worn disc" error message and the disc operation is aborted after a number of retries.

Workaround: Fixed in Release A.01.40

\* Problem: From BASIC, when successive read and write record operations are made to two random access files that begin at the same physical location in different disc drives, incorrect data gets read or written to these two files.

Workaround: Fixed in Release A.01.40

WELCOME— Release A.01.20 (on Operating System A.01.20 discs marked "HP 125") **Problem:** When WELCOME is Read Only, an attempt to install an application will cause WELCOME to fail with a write to R/O file error.

**Workaround:** Change WELCOME.COM to a R/W file (i.e. STAT WELCOME.COM \$R/W). Fixed in *Series 100* Operating System—Software Update Kit available.

**Problem:** WELCOME does not update the softkey label if the application is reinstalled with a changed label.

**Workaround:** First delete application with original label. (CTRL-SHIFT-DEL function of WELCOME) and then re-install it. The delete function will remove the label. Fixed in *Series 100* Operating System—Software Update Kit available.

**Problem:** Repeating label fields are not saved and retrieved correctly in DIF™ files.

**Workaround:** This may not be a serious problem if the labels are cosmetic (i.e., dashed lines) but it would be best not to use the "/-" command if the data is to be stored in a DIF file.

**Problem:** Saving to an existing file on a full disc results in a corrupt file. **Workaround:** "ERROR:DISK FULL" message is displayed if the disc does not have enough space. When this appears, try saving the file to a different disc before exiting from VisiCalc or reloading the file.

#### WELCOME— Release A.02.00 (on Operating System A.01.20 discs marked "Series 100")

**Problem:** If you attempt to install an application onto a disc which has a full directory, you get a misleading error message—"Operation aborted. File open error."

**Workaround:** If you get this message, delete a file (or files) then attempt installation again. If the problem persists, install the application on another disc.

#### Block-Format—Release A.02.00

**Problem:** After Block-format has loaded, the loader program quits without resetting the User Key labels.

**Workaround:** Reset them yourself in the User Key menu.

#### VisiCalc-Release A.02.00



**Problem:** If a space terminates a value entry, only 2 backspaces instead of 3 are required to clear the line.

**Workaround:** If value entry is accidentally terminated by typing a space, use /E or Ctrl-E to edit the number.

**Problem:** When replicating a column and the target range is smaller than the source range and at the edge of the worksheet, the replicate will wraparound and destroy the data in the target column.

**Workaround:** Always avoid replicating more data than the target range can accommodate.

**Problem:** An equation that is larger than the VisiCalc edit line will not replicate properly. Only half the equation is replicated.

**Workaround:** Do not attempt to replicate equations longer than the edit line.

**Problem:** When saving a VisiCalc file to a bad or worn-out disc, the system will hang until a hard reset is performed, thus losing all the data.

**Workaround:** Verify that the disc can be written to before entering VisiCalc.

**Problem:** If application disc has a "R/W" file with the same name as an "R/O" file on the work disc, WELCOME fails on a "WRITE TO R/O" file error. Because WELCOME tries to recover from an error file every time it runs, WELCOME will keep aborting each time it is run.

**Workaround:** Change file to a R/W file using STAT. Fixed in *Series 100* Operating System—Software Update Kit available.

**Problem:** Sending a set-up string to an HP-IB printer which is turned off or disconnected may cause VisiCalc to hang. Reset may not be able to clear the condition.

**Workaround:** Ensure that printer is on and ready before sending setup string.

**Problem:** VisiCalc fails if escape sequences are turned off prior to VisiCalc being invoked.

**Workaround:** If escape sequence processing is disabled, it must be re-enabled before other applications or programs are invoked.

**Problem:** Entering a non-digit character during value entry causes VisiCalc to assume that entry mode is being transmitted.

**Workaround:** This is consistent with information in the manual, including the function of the ";" key. If a non-digit is accidentally pressed during value entry then /E or Ctrl-E can be used to allow further editing.

**Problem:** Certain cell definitions which are syntactically incorrect can be entered. This is inconsistent with most cases, where incorrect syntax is not accepted.

e.g. @ NPV(1,2)

@ Lookup (aq...cl.)

Ranges are accepted for values and vice versa.

**Workaround:** If an incorrect definition is accepted, ERROR is displayed in the cell to warn the user that a problem exists.

**Problem:** If the RETURN key is held down after the /SL command, VisiCalc will load the first VisiCalc file on disc but not display the filename.

Workaround: The first RETURN sent on the blank edit line causes a catalog of the disc to be requested. Since the RETURN is an auto-repeat key, another RETURN character is sent, before the first filename is displayed, and causes the first file to be loaded. Don't hold down the RETURN key.

**Problem:** Illegal exponents result in incorrect values. **Workaround:** Don't use exponents larger than 127.

### Graphics—Release A.01.00 and A.01.01



**Problem:** Allows embedded blanks in filenames, but these files cannot be processed with CP/M commands DIR, ERA.

**Workaround:** The blank must be substituted with a question mark. Example: ERA FILE 1 should be ERA FILE?1. Fixed in Release A.01.02.

**Problem:** Allows the user to specify pen number 9 when only 8 pens are valid.

**Workaround:** Treat pen 9 as a valid pen number. This allows the user to specify up to 9 pen numbers on the HP7225 and 7470. The user will have to change the pens manually as required. Specifying pen 9 when using the HP9872C causes pen 1 to be selected. Fixed in Release A.01.02.

Pie

**Problem:** Pie segment labels are not positioned properly when the segment approaches 0.5%.

**Workaround:** Sort the segments with the sort option. Fixed in Release A.01.02.

**Problem:** In pie charts, the labels will be plotted over exploded segments in certain instances.

**Workaround:** Use the auto sort option or avoid exploding segments. Fixed in Release A.01.02.

#### Bar

**Problem:** When using stacked bar charts, small solid slices are not always drawn in the correct place on the bar chart. The slice is most often drawn too high on the chart or, if small enough, may not be drawn at all. This problem occurs because solid slices in stacked bar charts are drawn a "fraction of an inch" short, so that the solid portion does not bleed on the other sections of the bar chart. If the small slice is smaller than this "fraction of an inch", the slice is positioned in the wrong place.

**Workaround:** Avoid graphing bar chart segments of very small size. Fixed in Release A.01.02.

**Problem:** If a solid (shade #7) segment of a stacked bar chart is less than 0.5% of the chart's range, the small solid segment may be drawn too high—causing the segment above to be drawn on top of the smaller segment.

**Workaround:** Rescale your y-axis so that the smallest segment is greater than 0.5% of the chart's range. Fixed in Release A.01.02.

**Problem:** In bar charts, if the x-axis labels are too long they will write over one another when plotted.

**Workaround:** Either use fewer bars per chart or use shorter text in your labels. Fixed in Release A.01.02.

**Problem:** The top of a bar on a bar chart touches the border on some normal and comparative charts.

**Workaround:** Define the Y-axis labels such that the bars don't reach the border. Fixed in Release A.01.02.

**Problem:** The default Y-axis scaling on some normal bar charts is too large, therefore the bars may be very small.

**Workaround:** User can set own scaling to values that will produce satisfactory results. Fixed in Release A.01.02.

**Problem:** Bar charts won't plot when YMAX is less than 20% greater than YMIN.

**Workaround:** Choose values with greater than 20% differential. Fixed in Release A.01.02.

**Problem:** Bar Charts gives an ambiguous error message if Ymin and Ymax are equal.

**Workaround:** Check that Ymin does not equal Ymax. Error message is more definitive in Rev. A.01.02.

#### Linear

**Problem:** The labels on the linear charts are rounded to the nearest tenth. For example the values 0, 0.25, and 0.50 will be plotted as 0, 0.3, and 0.5.

**Workaround:** Use numbers which are accurate to one decimal place. Fixed in Release A.01.01.

**Problem:** Part of the last letter of a label on a linear chart may not be drawn on the X-axis.

**Workaround:** Use a label with fewer characters. Fixed in Release A.01.02.

**Problem:** If only two points are specified for line type 6 in a linear chart (left and right border points only), the line does not plot all the way across the graph because of an HP-IB timeout.

**Workaround:** Line type 6 takes too long to plot, so use a different line type or insert an additional data point in the middle of the graph. Timeout is increased in version A.01.02.

#### Slide

**Problem:** After plotting many slides, SLIDE loses inverse video and seems to lock up.

**Workaround:** EXIT from GRAPHICS by typing 'EXIT' then re-enter to do the slide over again. Improved in Release A.01.02.

**Problem:** Italic characters (from slide) are considerably shorter than other characters of the same designated size.

**Workaround:** Fixed in Release A.01.01.

**Problem:** The SLIDE program will ask for pen number 0 when using the one-pen plotter (7225).

**Workaround:** Ignore message and press return. Fixed in Release A.01.02.

**Problem:** In SLIDE, when Roman characters are plotted on the same line with normal characters, they are slightly raised above the normal characters. **Workaround:** Fixed in version A.01.01.

**Problem:** Backslash and underscore aren't plotted in Roman or Italic fonts by Slide.

**Workaround:** Use normal or slanted Font for these characters. Fixed in Release A.01.02.

**Problem:** All slides must be plotted on 8½ by 11 inch media.

Workaround: Fixed in Release A.01.02.

**Problem:** Vertical slides could not be made on the 7470A or 7225B plotter. **Workaround:** Fixed in Release A.01.02.

### Word-Release A.02.00



**Problem:** Print format table entries go to "32" when filename is too long. WORD/125 does not reject filenames or filetypes that are longer than CP/M filenaming conventions allow. Entering a too-long filename results in the following:

- a. The size of the file is listed in the directory as an impossibly high number (e.g. 520K on a 256K byte disc.)
- b. All of the Y Table values are changed to 32.

**Workaround:** Make sure that all filenames used in WORD/125 follow CP/M filenaming conventions. Fixed in Release A.02.02.

**Problem:** A line is printed at the wrong location with two column print. The two column print macro will occasionally print the last line of the first column in the second column. Also, dot commands are not always handled correctly.

**Workaround:** Some of the two column macro problems can be avoided by using a "manual method" for creating two columns of text rather than using the macro. "Manual method" instructions are as follows:

- 1. Imbed a .Y command at the top of the document to specify the width and length of the first column.
- 2. Use the J command to find the start of the second column.
- 3. Imbed a .T (to reposition the page) and a .Y (to format the second column) at the beginning of the second column. The .T command works only with printers capable of negative line feed, such as the HP 2601A.
- 4. Repeat steps 1, 2, and 3 for the entire document.

**Problem:** Bottom of screen filled with unwanted characters if the cursor is on the line below the last line of text (not in column one) and the cursor is homed down (moved to column 1 with the home key).

**Workaround:** To clear the unwanted characters from the screen, complete the following steps:

- 1. Go to Command Mode.
- 2. Type "Z" and then press the RETURN key. This will display the screen to set tabs.
- Press the ESC key to exit from the tab screen.
- 4. Go to Edit mode.

**Problem:** Tabs set past column 80 on the screen are not always set correctly. If the screen is set to a line length of 150 and tabs are set between columns 80 and 150, the tabs will not stay where they are set on the screen. Most often an extra tab appears at column 81 on the screen.

**Workaround:** If you must set tabs past column 80, realize that you will have an extra tab at column 81.

**Problem:** When printing decimal tabs in proportional spacing, the right margin is no longer aligned.

**Workaround:** Place a .Y statement before and after the tabbed section. Replace each value (except the proportional spacing value) in the .Y statement with a slash. In the .Y statement before the tabbed section, turn the proportional spacing "off" (0); after the tabbed section, turn proportional spacing back "on" (1).

**Problem:** When using a character-oriented print routine, hyphenated phrases (e.g., phone numbers) may be split at the end of a line.

**Workaround:** Enhance the hyphen, then turn off the enhancement with the !7 command prior to the hyphen. Remember to reset the enhancements after the hyphen.

**Problem:** There is a discrepancy between file sizes reported by WORD and those reported by the CP/M command "DIR".

**Workaround:** The file sizes reported by CP/M are correct.

**Problem:** With the line length set to 70, approx 75 characters are entered on a line, some wrap to next line. This 2nd line ends with a carriage return. There is an unindentified 3rd line. Changing the line length to 79 pulls up the 2nd line to the end of the first (properly), but doesn't get rid of the "INDENT TO TAB", as the 3rd line is now the 2nd line, "INDENTED".

### Workaround:

- Start with line length set to where you intend it ultimately to be. OR
- Fix it up afterwards with "CLEAR INDENT".

**Problem:** When WORD/125 encountered the sequence "?!?!" in a document "?!" was used as a value for the Y-Table Special Character entry. The entry was changed from 0 (bold) to 15. (This is illegal—no 15 entry exists).

**Workaround:** Don't use characters immediately after "!" or (2) replace "?!?!" with "?! ! "!" or (3) replace "?!?!" with "?!! H?!".

**Problem:** Cursor motion keys don't work as expected on "Indent to tab" lines when changes have been made on the line.

Workaround: Watch the cursor and position it where you would like it.

**Problem:** The MailMerge macro will not allow an item to be used more than 9 times within a letter. A letter with 11 references to @ 1 of a customer file will print only 9 of them.

**Workaround:** Use 9 references or less. Or, change line 66 of file "mmerge.wpm" that starts off "9s/@%4". Change the "9" to a number greater than or equal to the number of times a variable is referenced.

**Problem:** Decimal tab does not always terminate properly. Simple case to show problem:

1. Type on screen:

123456789<

2. Put cursor on middle "6"

6 1234567890<

3. Type ?Z followed by "aaa"
4. Hit down arrow once (5) go to Command mode, type Z, ESCAPE (6) the "aaa" is gone.

**Workaround:** Terminate Decimal tab with other than up or down arrow.

### Link/125—Release A.02.00



**Problem:** Link does not handle the page break conventions used by MicroPro's WordStar. The first character of each page is lost. If the first line of the page is empty, the transfer may hang.

### Workaround:

- 1. Make a copy of the file using PIP option (Z) to clear the 8th bit.
- 2. Leave a dummy blank at the start of each page.

Fixed in Series 100/DSN/Link.

### DSN/Link—Release A.01.00

**Problem:** If a file transfer is attempted with an HP 3000 Series 64 to a device with Device Reference Table (DRT) number greater than 127, the file transfer will be aborted. The error message you see is "Host pascal error".

Workaround: None.

**Problem:** If you answer a Yes/No question with characters other than Y, N, y, or n, DSN/Link hangs.

Workaround: Answer with "Yes" or "No".

**Problem:** In command mode, if you press 'stop command' and then 'CONFIRM STOP' softkeys after you entered a command, all softkey labels will be cleared.

**Workaround:** Press the 'MODES' key to restore the command mode softkey labels.

**Problem:** DSN/Link cannot work across an X.25 communication line. **Workaround:** None.

**Problem:** If the HP 3000 is sending data to the screen when DSN/Link is exited, Remote Mode appears not to work.

Workaround: Press the RESET key to clear the data communication line.

**Problem:** In the "Transfer-To-Host" menu, if you press the 'host rec size' softkey and then press the 'ASCII/BINARY' key before entering a record size, the 'ASCII/BINARY' key request is ignored.

**Workaround:** Press the 'ASCII/BINARY' key twice.

**Problem:** If a command file contains two &DSCOPY commands in a row and the HP 3000 used is a Series 64, the second &DSCOPY may fail.

**Workaround:** Insert a "& PAUSE 1" command between the two &DSCOPY commands.

**Problem:** If you set the block size to 1, the first file transfer works, but following file transfers may fail.

**Workaround:** Use a block size greater than 1.

**Problem:** If you define a softkey label with more than 16 characters using the &KEY command, the excess characters will appear on the screen when that softkey is pressed.

**Workaround:** Do not use more than 16 characters in a softkey label.

**Problem:** If you specified a record size greater than 512 in a &DSCOPY command, unpredictable results will occur.

Workaround: Use a record size less than or equal to 512.

**Problem:** If you press the 'STOP TRANSFER' key to abort a file transfer that was initiated by a &DSCOPY command and then press the 'TIMEOUT EXIT' key twice, the 'Waiting for host response" message will be left on the screen. However, control is returned to the Main Menu.

**Workaround:** After pressing the 'CONFIRM STOP' key, wait for a normal termination response from the host.

**Problem:** DSN/Link returns an error message "Host arithmetic error" if you perform the following sequence of operations: press 'transfer to host', enter a local filename, enter a non-existent host filename, press 'main menu', press 'transfer to host', change to Binary file transfer, and press 'START TRANSFER'.

**Workaround:** Enter the host filename again before pressing the 'START TRANSFER' key.

## BPI General Accounting Release A.01.00

**Problem:** Unable to create a company (command 71) when using a hard disc drive (9133A, 9134A, 9135A).

**Workaround:** Install disc 2—posting and listing, then install disc 1—data entry and maintenance. This is in opposite to the recommended procedure in the manual.

**Problem:** Unable to install BPI General Accounting on a hard disc (9133A, 9134A, 9135A) using WELCOME A.02.00.

Workaround: Install with WELCOME A.01.20.

### BASIC—Release A.05.21

**Problem:** Overflow error 'hangs' basic. "Print 2^127" intermittently hangs, reports syntax error, or reports overflow. "Print 2^128" works, and larger numbers seem OK.

**Workaround:** Avoid this value.

### Condor—Release A.01.00



**Problem:** Extra characters are left on the command line after leaving EDIT. **Workaround:** Backspace to the Condor prompt. Fixed in Release A.02.00.

**Problem:** The PROJECT command can lose, shift, or garble data in certain databases.

**Workaround:** Add an extra character to the definition of an alphanumeric field. Fixed in Release A.02.00.

**Problem:** With some databases, the UPDATE command locks the system and forces a reboot.

**Workaround:** Add an extra character to the definition of an alphanumeric field. Fixed in Release A.02.00.

**Problem:** If a format name has more than 7 characters, REORG will not assume the extension is .FRM.

Workaround: Fixed in Release A.02.00.

**Problem:** Options on many commands are not accepted if in lowercase letters (i.e., write filename [b]—the "[b]" will not be accepted).

Workaround: Use uppercase letters for options. Fixed in Release A.02.00.

### **Firmware**

Problem: Soft reset doesn't set "DC1 received" flag.

Workaround: None

**Problem:** the HP 125 may fail to send the second DC2 if two block transfers are stacked up, such as when the user presses ENTER and the host program issues a cursor position request. Some host programs send a cursor position request after an ENTER to better understand what data is being sent. Does not occur when Block/Format is loaded.

**Workaround:** Use Block/Format utility. (Available with Operating System Update Kit)

**Problem:** There are cases where the keyboard is locked by a host program and is released by the firmware prematurely. This happens when the host requests status bytes or cursor position. There is an unconditional keyboard unlock after these short block transfers.

Workaround: None

**Problem:** The NEXT PAGE key does not disable enhancement set for the previous page.

**Workaround:** Disable or set enhancements for next page.

**Problem:** The "Esc d" escape sequence is processed incorrectly. (The "Esc d" sequence allows emulation of the ENTER key function). This problem is not clearly visible when trying to execute the escape sequence from a BASIC/125 program. The cursor stays on any blank line.

**Workaround:** Press the RETURN or ENTER key to clear the cursor from the blank line.

### Manual Corrections-"Pen and Ink"



This section presents corrections to the Series 100 manuals. Just write in these corrections to update your manuals. New entries since the last *Communicator* are marked with a star.

### HP 120 Installation Guide HP 125B Installation Guide (11/82)

Page 7–20: For instruction 25, change (f6) to (f5).

\*Page 7-20 incorrectly lists the steps used to copy an operating system to your fixed disc. Use the following steps:

- 24. Press CHANGE COPY (f3) until SYSTEM appears in the COPY field at the top of the screen.
- 25. Press start copying (f5).
- 26. Press PROCEED (f5).
- 27. Press CHANGE COPY (f3) until FILES appears in the copy field.
- 28. Press start copying (f5).
- Press PROCEED (f5). When the Names of files are requested, type \*.\* [RETURN].
- 30. Press the EXIT function key (f8) when the files have finished copying
- 31. Remove the flexible discs from the drive.
- 32. Turn the drive off.
- 33. Change your disc drives address as shown.

## Getting Started With the HP 125 (7/81; Updated 2/82)

Page 4-6: Table 4 states that the 2601A printer should be configured with the Xon/Xoff field set to "Recv". Change "Recv" to "Xmit".

## VisiCalc/125 Reference Manual (7/81; Updated 2/82)

Page 1-11: Under the paragraph "Cells and Cell Contents" it states that a VisiCalc cell can contain up to 255 characters. Wrong; a cell can contain up to 125 characters.

Page 5-8: Change the exponentiation example on the top of the page to read 2<sup>5</sup> [RETURN]).

Page 5-16: The first example incorrectly describes the use of the NPV function. The example should read "@NPV(B8.B2.B6) + B1" not @NPV(B8,B1.B6). Also the result at B10 on the worksheet should read "288.2545" not "250.6561".

Page 6-3: Incorrectly states that the [CTRL] E command can be used to edit replicate commands. In fact, replicate commands cannot be edited with [CTRL] E. Delete the sentence "As with any other entry... by using [CTRL] E."

Page 9-3: States that the "E" causes the character that follows to be an escape character. This is not true. Modify the text to say the "E" sends an escape character.

Page A-3: The @IF function description should end with "the value w if b is false" not "the value w if v is false".

Page A-3: Change the description of the @NOT function to read "Results in the logical not of the Boolean value b."

Page B-11: Should read: 1020 OPEN "I", 1, F\$ instead of 1020 OPEN 1, F\$

Page B-11: Line 1130 should be "INPUT T". Line 1150 should end with a "J" not an "I". Line 3030 should have a semicolon before "NV" not a colon.

Page B-12: Line 5030 should read "OPEN 2,F\$". The REM statement after line 6620 should be line 7000. Line 7020 should read "IF T1 <> -1 THEN 9000".

[Order the Series 100/VisiCalc Software Update Kit to obtain the new VisiCalc manuals plus the latest software.]

# Graphics/125 Reference Manual (7/81; Updated 3/82)

Page 6-12: Fourth line, and the following line before the sentence that begins "now the 24 months...": "Units between X tics should be changed to 1". Also delete the 24th row of data shown in the example—only 23 rows can be entered on the screen.

[Order the Series 100/Graphics Software Update Kit to obtain the new Graphics manuals plus the latest software.]

# Word/125 Reference Manual (7/81; Updated 2/82)

Page 1-13: Artwork is missing from the bottom of the page. Drawings for the "up arrow" and "down arrow" cursor control keys should be inserted in the blank spaces at the bottom of the page. Draw the keys in, using the keys on page 1-7 of the WORD/125 manual as examples.

Page 2-9: In the middle of the page, the text reads: "See the information on marks in Chapter 5 for more information". Change the reference to Chapter 6 instead of Chapter 5.

[Order the Series 100/Word Software Update Kit to obtain the new Word manuals plus the latest software.]

## BASIC Reference Manual (7/81)

Page 3-64: Line 100 in the example should be:

100 PUT #1, CK% rather than 100 PUT #1, CK#

Page 3-80: Default text width on the screen is 72 characters. Change the number to 80 characters instead of 72.

Page H-4: On lines 1020 and 1030 in the example, place a "\$" after the "ESC".

Table 9–5 (pg. 9–41) should read: 04H Seek to Unwritten extent 06H Seek past end-of-disc instead of 04H Seek to unwritten data 06H Seek past end-of-file

### System Reference Manual (7/81)

Page 10-11: Change the maximum length of Subfunction 123 (window message string) from 80 to 79.

Page 15-18: In the table listing XTHL and its definition, delete the word "Data" (beside it) and change the definition to read "Exchange the data on top of the stack with the contents of the HL register pair".

Page A-7: Change the Key Code A9 from "enhance Linergins" to "Enhance Line".

# Condor Series 20 User's Manual (2/82)

Page 6-11: Delete the comma just after "ORDERS" in the JOIN command. In the two PROJECT commands, change "TOTAL" to "AMOUNT". In the second PROJECT command change "COMPANY" to "FIRM".

Page 8-5: First paragraph, last sentence should have the words "Bar charts and" deleted. Add a sentence to this paragraph as follows: "For Bar charts, the database to be plotted may contain a label item and up to 5 value items per record."

Page 8-5: The tabulate command in the first example should read: "TABULATE ORDERS BY REGION AND COMPUTE TOTAL AMOUNT[S]"

Page 8-5: Include the following between the PROJECT and SORT commands of the second example: "NOTE: The item MONTH must be numeric because the linear charts program accepts numeric values only."

# **Ordering Information—International**

## Ordering Communicator Subscriptions



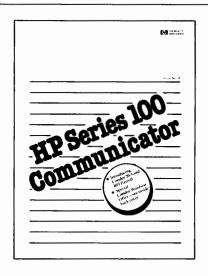
The Series 100 Communicator is the heart of the Series 100 support program. It contains application information, operational tips, programming techniques, information on software updates, manual corrections, and data on known software problems and their solution. The Communicator is both a reference to everything current on the system and your window into the continually expanding world of the Series 100.

You may subscribe to the *Series 100 Communicator* by ordering the HP 45530N Software Notification Service from your local Hewlett-Packard Sales and Service Office. Ask for "Computer Products Order Processing."

Series 100 Software Notification Service (1 year) ..... 45530N

Note: We are unable to start your subscription with an issue which has already been mailed; to complete your set of Communicator issues, order individual copies as described in the next section.

## Ordering Communicator Back Issues



The application information, operational tips, and programming techniques included in the Communicator make back issues valuable—to increase your productivity and improve your system knowledge.

### To order:

- In the U.S., see your Dealer or call HP's Computer Supplies Distribution Center at 800-538-8787. (In California, Alaska, or Hawaii call 408-738-4133.)
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Germany	07031/142-829 or 223-133
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The following back issues are currently available:

### Issue #1 includes the following major articles:

- —"Single and Multi-line Page Headings with Word"
- —"Searching for Enhanced Text in Word"
- —"Making Invisible Characters Visible in Word"
- –"Directory Scrolling in VisiCalc"
- —"Sending Escape and Control Codes to a Printer from VisiCalc"
- —"Warning: PASCAL"
- -"Things You Should Know About Random Access Files"
- -"HP 9895 to HP 9135 File Transfer"
- -"Electronically Reading a Disc Reference Number"

Series 100 Communicator Issue #1—U.S.		
Series 100 Communicator Issue #1—Intl.	5955-3937	

### Issue #2 includes the following major articles:

- —"Making Graphs from VisiCalc Worksheets"
- —"Word and VisiCalc Go Together"
- —"Printing Formulas from VisiCalc Worksheets"
- —"Printing Multiple Copies From Word"
- —"More on Search and Replace in Word"
- —"Chaining from One Executable Program File to Another"
- —"A BASIC Subroutine Library"
- —"Sort and Back Up Operations with Large Data Bases"
- —"Using COPY DISC to Back Up Data Files on Drive B"

—"Computing Internal Rate of Return in VisiCal	c''	
Series 100 Communicator Issue #2U.S	5955-3943	*
Series 100 Communicator Issue #2—Intl	5955-3947	*

<sup>\*</sup>If 10 or more copies of a single Communicator issue are ordered from HP at the same time, the price is discounted by 25%.

Issue #3 includes the following major articles:  —"Disc Formats on the HP Series 100"  —"New CP/M Compatible Software Catalog"  —"Non-Series 100 CP/M Programs—Will They Run?"  —"Long Documents with Series 100/Word"  —"Series 100/Word: Y Table Gymnastics"  —"Using Graphics to Your Advantage"  —"Condor Tips"  —"Adding Your Application Program to the WELCOME Menu"  —"Using Softkeys on Non-HP Systems"  —"Changing Printer Characters"	
—"Using the HP 9121 Disc Drive with Your HP 125A"	
Series 100 Communicator Issue #3—U.S 5957-6203 Series 100 Communicator Issue #3—Intl	*
Issue #4 includes the following major articles:  —"International System Summary"  —"Condor News"  —"Introducing BPI Payroll"  —"Comparing BPI and Peachtree Accounting"  —"dBASE II"  —"Two Tax Planning Packages"  —"Printing Mailing Labels from Condor"  —"More on HPMAIL and the Series 100"  —"File Transfers Using PIP"  —"Accessing a Plotter from BASIC"	
Series 100 Communicator Issue #4—U.S	*

Issue #5 includes the following major articles:	
—"Single Disc Configuration Supported on Series 100"	
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—"Video Display Interface for the HP 125"	
—"Series 100 International Users Group"	
—"Comparing Condor and dBASE II"	
—"Sending Escape Codes to Printers from WordStar and Condor"	
—"Interchangeability of Word and WordStar Text"	
—"Two-Column Print in WordStar"	
—"WordStar Quick Tips and Defaults"	
—"Getting VisiCalc to Round Dollar Values to Two Places"	
—"Word—Wandering HP 2601A Printer Margins with the Sheet Feeder"	
—"DSN/Link—Enhanced File Transfer Capabilities over Link/125"	
—"Connecting Two Series 100 Systems for ASCII File Transfer"	
—"Transferring IMAGE/3000 Data to a Condor Database"	
—"Transferring Data to the HP 2700 Color Graphics Terminal"	
—"Installing the Operating System on Your Fixed Disc"	
—"Using the HP 2631B HP-IB Printer with Series 100"	
—"Programming Challenge—Bypassing WELCOME"	
Series 100 Communicator Issue #5—U.S	<b>*</b>
Series 100 Communicator Issue #5—Intl	*
Additional copies of this current issue are also available:	
Series 100 Communicator Issue #6—U.S	: <b>*</b>
Series 100 Communicator Issue #6—Intl5957-6216	<b>*</b>

## Binders

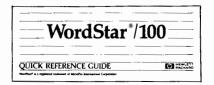


Three-ring Series 100 binders are available to organize your *Communicator* back issues and other  $8\frac{1}{2} \times 11^n$  Series 100 information.

Series 100 Binder—81/2" x 11" page size; 11/2" capacity . . . . 5955-3982

<sup>\*</sup>If 10 or more copies of a single Communicator issue are ordered from HP at the same time, the price is discounted by 25%.

### Ordering Quick Reference Guides, Manuals, and Binders



Quick Reference Guides for most application packages are available for the Series 100... as well as Reference, Owner's and Installation Manuals for the hardware and operating system.

Series 100 application manuals are available only with the associated discs in complete software packages.

To update your current documentation, refer to "Ordering Manual Updates" later in this Communicator.

#### To order:

- In the U.S., see your Dealer or call HP's Computer Supplies Distribution Center at 800-538-8787. (In California, Alaska, or Hawaii call 408-738-4133.)
- Outside the U.S., see your Dealer, contact your HP Sales Office, or call one of the following HP Computer Supplies numbers:

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South Africa 802-5111, or 53-7954, or 28-4178

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### **Quick Reference Guides**

Most Series 100 software packages include a Quick Reference Guide. This is a pocket-sized booklet or foldout card providing a summary of the program's commands and functions—for use once you are familiar with the application. Additional copies for the other users of your system are available from your dealer or HP:

-WordStar/100 Quick Reference Kit (5 booklets) .......45560-60001

Series 100/MicroPlan Quick Reference Kit (5 booklets) . . . . 45670-60001



### **System Reference Manual**

The HP 125 System Reference Manual (included in the 45536A Series 100 Programming Package) may be ordered separately. It applies to both the HP 120 and the HP 125; topics covered include:

- -Overview of the System
- -The Terminal
- -Programmatic Configuration
- —Programming the Function Keys
- -Display, Keyboard and Printer Control
- —Terminal and Device Status
- —Introduction to CP/M
- —CP/M Internal Organization
- —System Function Calls
- —Extended System Function Calls
- —Device Assignments
- —Advanced CP/M Features
- —CP/M Transient Utilities
- —Using the CP/M Text Editor
- —The CP/M Assembler
- —Using the Dynamic Debugging Tool

## System Owner's and Installation Manuals

Additional copies of the Owner's and Installation Manuals are available. If you do not have Operating System A.01.20 or a newer version, we recommend that you purchase the entire Software Update Kit—so that your new manuals will match your software. These are listed in this *Communicator* under "Ordering Software Update Kits."

Series 100 Owner's Manual Kit (120/125)	5061-3211
HP 125B Installation Guide Kit	5061-3212
HP 120A Installation Guide Kit	5061-3213

### Binders



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## **Books on Personal Computing**



This section lists several personal computer books which we have found helpful.

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- In the U.S., see your Dealer or call HP's Computer Supplies Distribution Center at 800-538-8787. (In California, Alaska, or Hawaii call 408-738-4133.)
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### **Applications**



### VisiCalc Programs Made Easy

Castlewitz; Osborne-McGraw-Hill, 1983

For first-time users of VisiCalc, this step-by-step tutorial uses a series of "hands on" lessons that introduce the program's format and its many commands. In the final section advanced uses and special tricks are covered that extend the capabilities of VisiCalc programs.

HP Product Number 92233Q

## VisiCalc: Home and Office Companion

Castlewitz and Chisausky with Kronberg; Osborne-McGraw Hill, 1982

A book for both beginners and experts. For the novice, it contains 50 models that can be used immediately for personal and business applications. For the experienced user, it is a source of new ideas and techniques. Arranged by application, the book provides models for loans and investments, advertising and sales, inventory control, personnel, household aids, and more. Each model includes the VisiCalc entry grid, a descriptive narrative, and sample printed report.

HP Product Number 92233Z



### Writing in the Computer Age: Word Processing Skills and Style for Every Writer.

Fluegelman and Hewes; Anchor Press/Doubleday, 1983

This book demystifies word processing and explains how it can be the ultimate tool in creating and refining your work. Topics include: hardware and software—what they are and what they do; the mechanics of working on word processors; screen and print formatting; setting up, organizing, and maintaining file systems; techniques for editing and polishing; styles and strategies; and more. This is a generic book on word processing that thoroughly covers the subject without being directed at any one word processor.

HP Product Number 92233N



# Everyman's Database Primer: Featuring dBASE II

Byers; Ashton-Tate, 1982

Written for the novice, this book is a tutorial on relational database management systems on a personal computer. It features dBASE II $^{\text{TM}}$  as the database management system used to illustrate the main points.

HP Product Number 92233R



### Data Base Management Systems: A Guide to Microcomputer Software

Krugliniski; Osborne-McGraw Hill, 1983

This book provides an introduction to data bases on personal computers. It presents information which will enable you to select a data base management system to meet your requirements. A number of packages are examined in detail—including Condor and dBASE II.

HP Product Number 92234A

### System Management

## CP/M User Guide

Hogan; Osborne-McGraw Hill, 1981

Written for all levels of expertise, this book introduces the reader to CP/M's function within a microcomputer system as well as the use of built-in and transient commands, assembly language utilities, high-level languages and applications programs.

HP Product Number 92233Y

### Networking



## Touring Datacomm: A Data Communications Primer

Hewlett-Packard, 1983

This is an introductory text which guides you through the basic concepts of data communications. It begins with a discussion of simple communications concepts and gradually introduces increasingly more complex topics. Topics include hardware and software; transmission methods and channels; line configurations and interfaces; signal conversion; multiplexing; common carrier services; and networks. Designed for readers with little or no previous knowledge of data communications.

HP Product Number 5957-4622

### **Computer Networks**

Tenanbaum; Prentice Hall, 1981

This introduction to computer networks emphasizes network architectures and protocols from the physical layer to the application layer, and from local networks to satellite networks. No prior background in computer networks is assumed, though a general familiarity with computer systems and programming is desirable.

HP Product Number 92233V

### **Programming**



### **BASIC For Home Computers**

Albrecht, Finkel and Brown; Wiley, 1978

Teach yourself Microsoft™ BASIC with this step-by-step self-teaching guide. (Series 100/BASIC is a version of Microsoft BASIC). This book is suitable for the novice who has never programmed before. Commands are explained using a short working program and then illustrated in a variety of applications.

HP Product Number 92234D



#### Microsoft BASIC

Knecht; Dilithium Press, 1983

This book is appropriate for a person who already programs in another version of BASIC or another language and who wants to learn this version of BASIC. This book is not as elementary as *BASIC for Home Computers* and it covers more of the advanced features of Microsoft BASIC.

HP Product Number 92234E



### The Investor's Computer Handbook

Packer; Hayden Books, 1982

This book gives programs and examples directed toward the stock market, which are transferrable to other types of dynamic markets and portfolios. Types of programs explained: portfolio management and trading, research filing and retrieval, chart generation and portfolio maintenance. The demonstration programs are written in Microsoft BASIC.

HP Product Number 92234G

## **Ordering Training Courses**



Training courses are available to assist you in making the best use of your Series 100 system.

#### **HP-Conducted Courses**

Hewlett-Packard provides Series 100 training courses at HP Customer Training Centers using HP-provided equipment; they can also be taught by HP at your facility using your own system. To order, call your HP Sales and Service Office.



■ For managers and professionals who are new to personal computers, the one-day *Introduction to Personal Computers* course provides hands-on experience with an HP personal computer. The objective is to become comfortable with personal computers through understanding and actual use: you solve financial problems with a spreadsheet program, you are exposed to word processing and graphics, plus there is a non-technical discussion of how a computer works.

35119A Introduction to Personal Computers Course



■ For users who are new to computers, the one-half day WordStar/100 Introduction Course provides an introduction to the Series 100 and the use of WordStar/100. Upon completion, you will be able to produce memos with WordStar and use the WordStar documentation to learn further skills. 35123B WordStar/100 Introduction Course



Current WordStar/100 users and graduates of the introductory course may take the one-half day SpellStar/100 and MailMerge/100 Course. Upon completion, you will be able to use SpellStar to check documents, produce mailings with MailMerge, and use the SpellStar and MailMerge documentation to learn further skills.

35123C SpellStar/100 and MailMerge/100 Course



- The two half-day WordStar and SpellStar/MailMerge courses are available together as a single one-day course.
   35123A WordStar/100 Course
- For users who are new to computers, the one-day Series 100/Word Course provides an introduction to the Series 100 and the use of Series 100/Word. 35042W Series 100/Word Course
- The two-day *Series 100 User Course* provides an introduction to the Series 100 and the use of Series 100/Word; the second day covers Series 100/Graphics, Series 100/VisiCalc, and Series 100/DSN/Link.

  35042B Series 100 User Course
- Programmer training is provided by the five-day Series 100 Program Development Course, which covers CP/M, the specifics of Series 100/BASIC, and the assembly language. This course is designed for those who have programming experience in both BASIC and an assembly language. 34043A Series 100 Program Development Course

### **Dealer-Conducted Courses**

An HP Personal Computer Dealer may teach similar courses or may arrange for a Hewlett-Packard instructor to teach courses in your area. Contact your Dealer for details.

## **Ordering Software Packages**



Here is an up-to-date list of the Series 100 software packages available from Hewlett-Packard. For updates to software products you already have, refer to the next section—"Ordering Updated Software and Manuals."

To add one of the software packages to your system, order a product and media option as shown. Be sure to specify one of the three media options— 630, 650, or 680—as shown in the listing.

### To order:

- In the U.S., see your Dealer or call HP's Computer Supplies Distribution Center at 800-538-8787. (In California, Alaska, or Hawaii call 408-738-4133.)
- Outside the U.S., see your Dealer, contact your HP Sales Office, or call one of the following HP Computer Supplies numbers:

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U.K.

0734/792-868 or 792-959

	Description	Product No.	Option
Series 100	Series 100/VisiCalc®	45531B	
Application Software	Software on: 3.5" Micro-Disc		630
	5.25" Mini-Disc		650
	8" Flexible Disc		680
	Series 100/Graphics	45532B	
	Software on: 3.5" Micro-Disc		630
	5.25" Mini-Disc		650
	8" Flexible Disc		680
	Series 100/Word	45533B	
	Software on: 3.5" Micro-Disc		630
	5.25" Mini-Disc		650
	8" Flexible Disc		680
	Series 100/DSN/Link	45534B	
	Software on: 3.5" Micro-Disc		630
	5.25" Mini-Disc		650
	8" Flexible Disc		680
	Series 100/BASIC	45535A	
	Software on: 3.5" Micro-Disc		630
	5.25" Mini-Disc		650
	8" Flexible Disc		680
	Series 100/Programming Package	45536A	
	Software on: 3.5" Micro-Disc		630
	5.25" Mini-Disc		650
	8" Flexible Disc		680

<sup>\*</sup>Not supported on single disc drive system (9121S or 82902M)

\*\*Not recommended for use on single disc drive system (9121S or 82902M)

Series 100/Condor™ 20-1** Software on: 3.5" Micro-Disc 5.25" Mini-Disc 8" Flexible Disc	45550A 630 650 680
Series 100/Condor 20-2** Software on: 3.5" Micro-Disc 5.25" Mini-Disc 8" Flexible Disc	45550E 630 650 680
Series 100/Condor 20-3* Software on: 3.5" Micro-Disc 5.25" Mini-Disc 8" Flexible Disc	45550H 630 650 680
Series 100/Condor 20-1 to 20-2 Upgrade Kit** Software on: 3.5" Micro-Disc 5.25" Mini-Disc 8" Flexible Disc	45550K 630 650 680
Series 100/Condor 20-2 to 20-3 Upgrade Kit* Software on: 3.5" Micro-Disc 5.25" Mini-Disc 8" Flexible Disc	45550N 630 650 680
Series 100/Condor 20-1 to 20-3 Upgrade Kit* Software on: 3.5" Micro-Disc 5.25" Mini-Disc 8" Flexible Disc	45550P 630 650 680
WordStar®/100 Software on: 3.5" Micro-Disc 5.25" Mini-Disc 8" Flexible Disc	45560A 630 650 680
SpellStar <sup>™</sup> /100* Software on: 3.5" Micro-Disc 5.25" Mini-Disc 8" Flexible Disc	45561A 630 650 680
MailMerge <sup>™</sup> /100 Software on: 3.5" Micro-Disc 5.25" Mini-Disc 8" Flexible Disc	45562A 630 650 680



	Series 100/BPI General Accounting*	45552A	
	Software on: 3.5" Micro-Disc		630
	5.25" Mini-Disc		650
	8" Flexible Disc		680
	Series 100/BPI Payroll*	45553A	
	Software on: 3.5" Micro-Disc		630
	5.25" Mini-Disc		650
	8" Flexible Disc		680
	Series 100/MicroPlan®	45670A	
	Software on: 3.5" Micro-Disc		630
	5.25" Mini-Disc		650
	8" Flexible Disc		680
	MicroPlan Consolidation	45671A	
	Software on: 3.5" Micro-Disc		630
	5.25" Mini-Disc		650
	8" Flexible Disc		680
tandard CP/M® Application	MILESTONE™	45580A	
oftware for the Series 100	Software on: 3.5" Micro-Disc		630
	5.25" Mini-Disc		650
	8" Flexible Disc		680
	DATEBOOK II™	45581A	
	Software on: 3.5" Micro-Disc		630
	5.25" Mini-Disc		650
	8" Flexible Disc		680
	PERSONAL DATEBOOK™*	45582A	
	Software on: 3.5" Micro-Disc		630
	5.25" Mini-Disc		650
	8" Flexible Disc		680
	dBASE II™	45583A	
	Software on: 3.5" Micro Disc		630
	5.25" Mini-Disc		650
	Aardvark Professional Tax Plan	45585A	
	Software on: 3.5" Micro Disc		630
	5.25" Mini-Disc		650
	Aardvark Personal Tax Plan	45586A	
	Software on: 3.5" Micro Disc		630
	5.25" Mini-Disc		650

<sup>\*</sup>Not supported on single disc drive system (9121S or 82902M)

<sup>\*\*</sup>Not recommended for use on single disc drive system (9121S or 82902M)

## **Supplies and Accessories**



Here is a list of the most popular Series 100 supplies and accessories.

A full list of HP computer supplies matched to your system for optimum performance is shown in the HP Personal Computer User's Catalog.

To order or obtain a copy of the User's Catalog:

- In the U.S., see your Dealer or call HP's Computer Supplies Distribution Center at 800-538-8787. (In California, Alaska, Hawaii call (408) 738-4133.)
- Outside the U.S., see your Dealer, contact your HP Sales Office, or call one of the following HP Computer Supplies numbers:

Germany

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Netherlands

020/470-639

South Africa

802-5111, or 53-7954, or 28-4178

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0734/792-868 or 792-959

### For Computers...

### **HP 120 Personal Office Computer**

13269P Carrying Case (For HP 120 with Standard Keyboard plus 9121 disc drive; or HP 120 with extended keyboard.)

92171K Keyboard Park 92171T System Turntable 92171V Display Tilt Unit 92171W Display Swivel Unit

### **HP 125 Personal Office Computer**

92160B Thermal Paper, Black Print (Box of 24 rolls) 92171R Keyboard Palm Rest (for extended keyboard) 92171T System Turntable

### For Disc Drives...

### HP 82901M/S, 82902M/S, 9130A, 9135A 51/4 inch Disc Drive

92190A 51/4 inch Flexible Discs, Double Sided (Box of 10 discs)

### HP 9121D/S, 9133A 3½ inch Disc Drive

13269T Disc Drive Case (for 9121)

92191A 3½ inch Flexible Discs (Box of 10 discs)

#### For Printers...

### HP 2601A Daisywheel Printer

92151C Multistrike Ribbon Cartridges (Box of 12 cartridges) 92151D Fabric Ribbon Cartridges (Box of 12 cartridges) 92157A Printer Paper, Fan Fold (Box of 2400 sheets) 92157C Printer Paper, Microperforated Fan Fold (Box of 2400 sheets) 92252-series Plastic Print Wheels, 96 character (Box of 6 wheels)

### HP 2602A Daisywheel Printer

92151H Multistrike Ribbon Cartridges (Box of 12 cartridges) 92157A Printer Paper, Fan Fold (Box of 2400 sheets) 92157C Printer Paper, Microperforated Fan Fold (Box of 2400 sheets) 92262-series Plastic Print Wheels, 98 character, USASCII (1 each) 92263-series Plastic Print Wheels, 98 character, International (1 each)

#### **HP 2631A/B Dot Matrix Printer**

92155A Ribbon Cartridges (Box of 3 cartridges) 92157A Printer Paper, Fan Fold (Box of 2400 sheets) 92157C Printer Paper, Microperforated Fan Fold (Box of 2400 sheets)

#### HP 2671A/G, 2673A Thermal Printer

92160B Thermal Paper, Black Print (Box of 24 rolls) 92160N Thermal Paper, Black Print (Box of 1320 fan fold sheets)

### HP 82905A/B Dot Matrix Printer

92156A Ribbon Cartridges (Box of 2 cartridges) 92157A Printer Paper, Fan Fold (Box of 2400 sheets) 92157C Printer Paper, Microperforated Fan Fold (Box of 2400 sheets) 92154P Print Head

### For Plotters...

### HP 7225A/B, 7470A Plotter

5060-6810 Multi Color Pen Package (Package of 4 pens; 1 each red, blue, green and black)
9280-0589 Plotter Paper, English (Pad of 50 small sheets)

9280-0588 Plotter Paper, Metric (Pad of 50 small sheets)

## **Ordering Manual Updates**

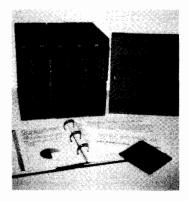
Corrections to Series 100 manuals are distributed in one of three ways, depending on the extent of the change and whether or not the manual update is dependent on a software update:

- Minor changes are listed in the *Communicator*. (See "Pen and Ink" in this issue.)
- Manual Update Packages associated with a software update are included in the appropriate Software Update Kit. See "Ordering Software Update or Upgrade Kits," later in this section, for information on updating your Owner's, Installation, VisiCalc, Word, Graphics, and DSN/Link software and manuals... the updated manuals are in the new 5½" x 8" format.
- When there are extensive manual revisions independent of software changes, Manual Update Packages are available through your dealer or HP.

Currently, the following Manual Update Package is available:

BASIC/125 Reference Manual Update Package . . . . . . . 45535-99001 (Applies to HP 120 and HP 125 systems)

## Ordering Software Update or Upgrade Kits



The set of software for the Series 100 is revised as needed to add new features, to work with new peripherals, or to correct problems.

Software Update or Upgrade Kits contain the latest software and any new manuals or manual updates issued since the original manual. Kits are provided at a nominal charge—your original master disc is returned as proof of purchase. (You continue operating as usual with your work copy of the software.)

To replace damaged media, Software Update Kits are available for all Series 100 software packages—including the products which have not been updated. Refer to the next section of this *Communicator* for media replacement ordering information.

Refer to the "Software Status Bulletin" section of this *Communicator* for details on the software problems fixed in the latest version of each software product.

#### To order:

- In the U.S., updated software and manuals are available through your Series 100 Dealer or they may be ordered by mail from HP's Computer Supplies Distribution Center using the form given later in this section.
- Outside the U.S., they are available through your Series 100 Dealer or your HP Sales and Service Office.

## Operating System (Current Version A.01.40)

■ Operating System and Utility *Upgrade* Kit

If you have an A.01.20 Operating System disc labeled "HP 125" (rather than "Series 100"), order this kit to obtain the following items:

- —The new 5½" x 8" Owner's Manual, with slipcase.
- —The new  $5\frac{1}{2}$ " x 8" HP 125B Installation Manual, with slipcase.
- —An A.01.40 Operating System disc, which includes the improved A.02.00 WELCOME utility, the single-disc A.02.00 COPY utility, and the single-disc INSTALL utility.
- —A Utility Disc, containing the new fixed-disc BACKUP utility.
- —The new Computer Tutor Disc, a computer-aided introduction to the 120/125 system for the first-time user.

If you have Operating System A.01.10, ordering this kit will also add support of the 9134/9135 fixed disc drive to your system, and provide the BACKUP Utility.

Series 100 Op Sys & Utility Upgrade Kit

Software on: 3.5" Micro-Disc	45900-13800	*
5.25" Mini-Disc	45900-15800	*
8" Flexible Disc	45900-18800	*

One original **HP 125** Operating System disc must be exchanged for each Op Sys and Utility Upgrade Kit ordered. (This kit includes the current Utility and Computer Tutor discs—but only the Op Sys disc will have to be returned.)

■ Operating System and Utility Update Kit

If you have the A.01.20 version labeled "Series 100", we have an Operating System *Update* Kit which provides an A.01.40 Operating System disc (with the single-disc A.02.00 COPY utility), plus the corresponding updates to the Series 100 Owner's, the HP 120 Installation, and HP 125B Installation Manuals.

Series 100 Op Sys & Utility *Update* Kit

Software on: 3.5" Micro-Disc	.*
5.25" Mini-Disc	*
8" Flexible Disc	*

For each kit ordered, return an original **Series 100** A.01.20 Operating System disc. (This kit includes the current Utility and Computer Tutor discs—but only the Op Sys disc will have to be returned.)

<sup>\*</sup>For each kit ordered, submit one original master disc as described in the text. This is the disc with the HP software product number and description printed on the label. Be sure to make working copies before sending your master disc. Orders submitted without the correct master disc cannot be accepted. If 20 or more copies of a single Software Update or Upgrade Kit are ordered at the same time, the price is discounted by 35%; no other discounts apply to these kits.

Series 100/VisiCalc (45531B—Current Version A.02.00)	Order this kit to obtain <i>Getting Started With Series</i> 100/VisiCalc, the Series 100/VisiCalc Reference Manual, the Series 100/VisiCalc Quick Reference Card, and the latest version of the software.
	Series 100/VisiCalc Upgrade Kit
	Software on: 3.5" Micro-Disc
	For each kit ordered, return an original VisiCalc/125 disc. (Use your working copy until the new disc arrives.)
Series 100/Graphics (45532B—Current Version A.01.02)	If you have version A.01.01, order this kit to obtain the Series 100/Graphics Reference Manual, the Series 100/Graphics Quick Reference Card, and the latest version of the software.
	If you have version A.01.00, ordering this kit will also add the ability to use the 7470A plotter to your system.
	Series 100/Graphics Upgrade Kit
	Software on: 3.5" Micro-Disc
	8" Flexible Disc
Series 100/Word (45533B—Current Version A.02.02)	Order this kit to obtain <i>Getting Started With Series 100/Word</i> , the <i>Series 100/Word Reference Manual</i> , the <i>Series 100/Word Quick Reference Card</i> , and the latest version of the software.
	Series 100/Word Upgrade Kit
	Software on: 3.5" Micro-Disc
	5.25" Mini-Disc
	8" Flexible Disc
	For each kit ordered, return an original Word/125 disc. (Use your working copy until the new disc arrives.)

### Series 100/DSN/Link (45534B—Current Version A.01.01)

■ If you have Link/125, you may wish to upgrade to Series 100/DSN/Link.

In order to use DSN/Link, verify with your system manager that your HP 3000 has operating system MPE IV C.00.20 (or later) installed. On an HP 3000 Series 64, the MPE Version must be D.00.20 or later. (Refer to the article under "New Products" in *Communicator* Issue #3 for details).

These Upgrade Kits now include a second disc containing the program DSN/MONITOR. This software allows files to be transferred between two Series 100 products in either ASCII or binary mode with error checking.

Series 100/DSN/Link *Upgrade* Kit:

Software on: 3.5" Micro-Disc	45534-13810
5.25" Mini-Disc	45534-15810
8" Flexible Disc	45534-18810

For each kit ordered, return one original Link/125 disc. (Use your working copy until the new disc arrives.)



If you have Series 100/DSN/Link, you may wish to update your copy to the A.01.01 level, plus add a second disc containing the program DSN/MONITOR. This software allows files to be transferred between two Series 100 products in either ASCII or binary mode with error checking.

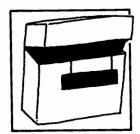
Series 100/DSN/Link Update Kit

Software on: 3.5" Micro-Disc	,*
5.25" Mini-Disc	*
8" Flexible Disc	*

For each kit ordered, return one original **Series 100/DSN/Link** disc. (Use your working copy until the new disc arrives.)

<sup>\*</sup>For each kit ordered, submit one original master disc as described in the text. This is the disc with the HP software product number and description printed on the label. Be sure to make working copies before sending your master disc. Orders submitted without the correct master disc cannot be accepted. If 20 or more copies of a single Software Update or Upgrade Kit are ordered at the same time, the price is discounted by 35%; no other discounts apply to these kits.

## Replacing Damaged Media



The master-copy/work-copy technique used by the Series 100 is designed to minimize the risk of damage to your master software due to handling or human error. Should this occur, Software Update Kits are available for all Series 100 software packages—including the products which are still at the originally-released revision level. The kits contain the latest software and any new manuals or manual updates issued since the original manual; the kits are available at a nominal charge upon return of your original master disc as proof of purchase.

#### To order:

- In the U.S., Software Update Kits are available through your Series 100 Dealer or they may be ordered by mail from HP's Computer Supplies Distribution Center using the form given later in this section.
- Outside the U.S., they are available through your Series 100 Dealer or your HP Sales and Service Office.

	Order Part Number				Price
					Code,
Product	Rev.	3.5" Disc	5.25" Disc	8" Disc	Notes
Op Sys	A.01.40	45900-13810	45900-15810	45900-18810	1,4
VisiCalc	A.02.00	45531-13800	45531-15800	45531-18800	1
Graphics	A.01.02	45532-13800	45532-15800	45532-18800	1
Word	A.02.02	45533-13800	45533-15800	45533-18800	1
Link/125	A.02.00	45534-13800	45534-15800	45534-18800	1,6
DSN/Link	A.01.01	45534-13820	45534-15820	45534-18820	1,7
BASIC	A.05.21	45535-13800	45535-15800	45535-18800	1
Prog. Pkg.	A.01.00	45536-13800	45536-15800	45536-18800	1
Condor 20-1	A.02.00	45550-13800	45550-15800	45550-18800	1
Condor 20-2	A.02.00	45550-13801	45550-15801	45550-18801	1,5
Condor 20-3	A.02.00	45550-13802	45550-15802	45550-18802	1,8
BPI G/A	A.01.00	45552-13800	45552-15800	45552-18800	2
BPI Payroll	A.01.00	45553-13800	45553-15800	45553-18800	2
WordStar	A.01.00	45560-13800	45560-15800	45560-18800	1
SpellStar	A.01.00	45561-13800	45561-15800	45561-18800	1
MailMerge	A.01.00	45562-13800	45562-15800	45562-18800	1
MicroPlan	A.01.00	45670-13800	45670-15800	45670-18800	1
MicroPlan Consol.	A.01.00	45671-13800	45671-15800	45671-18800	1

### **Key to Price Codes:**

1— 2— Check with your dealer or HP office for prices in your country.
3—

See notes on next page.

#### Notes:

- 4—This kit is to *update* an A.01.20 version of the **Series 100** Op Sys; an *upgrade* kit to move from earlier **HP 125** versions is also available—refer to details under "Ordering Software Update or Upgrade Kits," earlier in this section. This kit includes the current Operating System disc, the current Utility Disc, the current Computer Tutor Disc, and all Owner's and Installation manual updates issued since the initial 5½" x 8" editions.
- 5—Either a Condor 20-2 disc or a Condor 20-1 to 20-2 Upgrade disc may be exchanged for the Condor 20-2 disc.
- 6—Link/125 disc exchanged for Link/125 disc. Refer to "Ordering Software Update or Upgrade Kits" to *upgrade* Link/125 to Series 100 DSN/Link.
- 7—Series 100/DSN/Link disc exchanged for Series 100/DSN/Link. Refer to "Ordering Software Update or Upgrade Kits" to *upgrade* Link/125 to Series 100 DSN/Link.
- 8—Either a Condor 20-3 disc or a Condor 20-2 to 20-3 Upgrade disc may be exchanged for the Condor 20-3 disc.

