May/June 1989

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# HP Computer Museum
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# The HP PC Newsline

Late-breaking news on HP personal computer products

Two new **Windows printer drivers** are available -- HPPCL.DRV version 3.1, a PCL/LaserJet driver, and PSCRIPT.DRV version 3.1, a PostScript driver.

HPPCL.DRV includes the soft font installer used in version 3.0, and it now includes support for the new HP LaserJet IID printer. With PSCRIPT.DRV version 3.1, the problems that were experienced with mapping some extended characters in version 3.0 were fixed.

These drivers are available in a Drivers/Filters package from Aldus Corporation. To order, call Aldus Customer Support at (206) 628-2320 in the U.S. Outside the U.S., contact your local distributor.

***

You can now upgrade your **HP Vectra ES PC** to a Vectra ES/12 with a low cost upgrade which provides you with a 50 percent increase in processor clock speed (from 8 MHz to 12 MHz).

The upgrade includes on-site installation and a one-year warranty of the entire SPU (not just the upgraded parts). The term "entire SPU" includes HP video cards and hard disks. It does not include the monitor or any other accessories added to the original HP Vectra ES PC. To order the upgrade, HP product number D1335AH, call your dealer or HP sales office.

***

**WordPerfect for the HP 150/Touchscreen PC** is now available, thanks to Personalized Software, an independent HP150 PC software developer. WordPerfect for the HP 150 comes on a single-sided disk (HP 35190L), and a double-sided disk (HP 35190K). Please note that you need either a dual double-sided disk drive, or a hard disk and a minimum of 384 KB of memory to use the software.

Hewlett Packard is acting strictly as a distributor of this product and does not provide support for WordPerfect. If you have a problem with setting up the software, you should contact Personalized Software of Fairfield, Iowa, as indicated in the information shipped with the product. If you have questions on the software itself, contact WordPerfect.

You can order WordPerfect for the HP 150/Touchscreen PC in the U.S. only from HP DIRECT at (800) 538-8787.

***

An **Upgrade/Replacement Kit** is now available for the HP Vectra RS, QS, and ES SETUP and Utilities Disk. The kit includes version B.04.00 software and the new HPEMM/386 driver version A.01.02 on a 1.2 MB 5.25-inch flexible disk, along with a revised manual for the HPEMM/386 program. (Please note that the latest version of the SETUP and Utilities Disk is B.04.01. This version is necessary for support of ESDI drives on the HP Vectra QS/20 and is shipping with that product. For all other Vectras, version B.04.00 provides all the required features.)

To order the Upgrade/Replacement Kit (HP part number 5061-8987), contact your dealer or HP sales office, or call HP DIRECT. You will need to return your old SETUP disk. For more information on upgrade/replacement kits, refer to "Software Exchange Kits" in the green pages of this issue.

***

Did you know that you can send your **Graphics Gallery Version 3.0** picture files to MAGICorp, an independent graphics service bureau, and get professional quality slides overnight? Overheads, prints, and other media are also available. Just send in the MAGICorp coupon included in U.S. versions of Charting Gallery, Drawing Gallery, and the Gallery Collection, and you will receive free software and instructions for sending your files to MAGICorp by mail or modem.

For those of you outside the U.S. who have purchased the U.S. version of the Graphics Gallery Version 3.0 product family, special instructions will be sent to you if you return the MAGICorp coupon included with the software. If you have lost your coupon, you can write to MAGICorp at 50 Executive Blvd., Elmsford, N.Y. 10523 USA, or phone (800) 367-6244.

***

Latest information about HP PC questions, problems, and solutions

Here's a tip that works well with **PageMaker 3.0.** If you are working with a document that has a lot of Master Page information, you may get confused about what is page data versus Master Page information. If you have a color monitor, you can use this trick to help you decipher which part of the information displayed is Master Page information.

Go to the Master Page(s) and activate the Color Palette. Then activate all of the graphics and text information (use Text Tool) and assign a color such as blue. When you return to edit your pages, the Master Page information is now highlighted in another color. This won't affect the printing as long as you do not have Spot Color Overlays selected on your Print menu.

***

When using a **non-U.S. keyboard and MS-DOS 3.3** on an HP Vectra RS/20C or RS/25C, be sure to update your keyboard driver as instructed in your *Introduction to HP Vectra Utilities* manual included in the PC kit. Remember also that you should **not** use the [Ctrl][Alt][\] (or equivalent) keystrokes to switch between high and low speeds if you're using a non-U.S. keyboard. You should use the keyboard combinations shown in the *Vectra Software Utility: HPMODE Command* documentation included in the PC kit.

***

In the back of your *PageMaker 3.0 Reference Manual* there is a **PageMaker Quick Reference Guide** which is easily overlooked. It is on a perforated card, which can be removed, and answers questions like...

- What key strokes are necessary to select a tool from the toolbox without using a mouse?
- How do you move to another page without using your mouse to click on the page icons?
- How can you use the cursor control keys to adjust the insertion point in a body of text?

***

If you are having problems formatting **high density (1.44 MB) 3.5-inch disks** on your HP Vectra PC, you may be using the wrong disks. HP Vectra PCs sense what type of disk is in the drive by the square holes on the bottom of the 3.5-inch disk. HP disks have two holes, one on each of the lower corners. Disks from other companies may have only one hole (for write-protect), and will then be sensed as low density disks by the Vectra.

Media following the hole-sensing standard are available from most major disk media vendors -- and, of course, from HP. The part number for HP's 1.44 MB 3.5-inch double-sided disks is 92192X. To order, contact your dealer, HP sales office, or call HP DIRECT. (Refer to "How to Order" in the green pages.)

***

If you are using **Microsoft Windows version 2.03** on an HP Vectra PC, can you print or plot to an HP-IB device? The answer is that although HP-IB devices are not supported with any version of Windows for the HP Vectra PCs, you may be able to print or plot from some Windows applications.

For example, if you place an HP-GL file in PageMaker, you can plot to an HP 7550A plotter, and you can print from Notepad to an HP-IB ThinkJet. You must have a physical port configured in order to reroute that port to the HP-IB device. That is, if you have only one physical parallel port on the Vectra, you must configure your HP-IB device as LPT1 in MS-DOS and Windows.

Whether or not a particular application will plot or print is dependent on the application and the device driver. Windows and the drivers were not written to output to HP-IB devices, and this configuration is therefore not supported.

Windows for the HP 150/Touchscreen PC does support the HP-IB ThinkJet printer (HP 2225A), the Daisywheel printer (HP 2603), the HP 7475A color desktop plotter, and the ColorPro plotter (HP 7440A).

***

If your **HP mouse** does not work with your software application, the mouse driver may not have been installed. Be sure that you have installed the HP-HIL mouse driver called MOUSE.SYS which is on the SETUP and Utilities disk that comes with your system.

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## Welcome to the *HP PC Communicator*

The *HP PC Communicator* is the heart of HP's support program for personal computers and software. The magazine contains programming techniques, information on software updates, notes on using applications, and corrections for manuals. The *HP PC Communicator* also lists known software problems and their solutions, and introduces new members of the HP PC family.

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**Becoming a Contributor**

Much of the material in this issue was submitted by users and HP field-support people. If you'd like to contribute an article, program, question, or suggestion, please send it to us at the following address:

Editor, *HP PC Communicator*
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By submitting information, you agree that the material will not be considered confidential, and that HP may use, copy, edit, modify, publish, or sell it without any liability and without any obligation to you or to anyone else. If we publish your contribution in the *HP PC Communicator*, your name will appear on the by-line. If you'd like us to return the material you submit, please enclose a stamped, self-addressed envelope with it.

We look forward to sharing your ideas with HP PC users throughout the world.

**CompuServe**

Articles appearing in the *HP PC Communicator* are carried in the HP PC Forum on the CompuServe Information Service. For more information, see "Answers to Your Questions" in the Current Information green pages.

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## Microsoft Windows/386 Myths

Lucy Rempel

Recently I've received many questions regarding Microsoft® Windows/386. In this article I'd like to clear up the most common "myths" about Microsoft Windows/386.

**Myth #1**

**For my HP Vectra RS or QS PC, I should use Windows/386, not Windows/286, because Windows/286 will not work on an 80386-based PC.**

Although the name Windows/286 implies that you should run this product on an 80286-based PC (that is, the HP Vectra ES), it also runs on 8086- and 80386-based PCs. In fact, there are many reasons why you may choose Windows/286 **instead** of Windows/386:

- Windows/286 requires less memory.

  1 MByte of memory on the HP Vectra RS or QS with Windows/286 allows you to run several DOS and Windows applications concurrently (if your PIFs are set correctly). You will not be able to multitask your DOS applications, but you will be able to switch between them without exiting any application.

  Windows/386 requires 2 MBytes to load the system; to run DOS applications you will probably require even more memory. You may run only as many DOS applications as can fit into memory, since the applications cannot swap to disk. (More information on how much memory applications use under Windows/386 is included in Myth #2.)

  Of course, the more memory you have for either Windows product, the better.

- Windows/286 runs better with networks.

  Because networks can take up a fair amount of conventional memory (at least 120 Kbytes), many users prefer to run a network with expanded memory. If you run a network and Windows, expanded memory is almost mandatory. However, expanded memory is not available for networks with Windows/386. Why? Networks must be run prior to running Windows/286 or Windows/386. Expanded memory is not available until Windows/386 is run, because Windows/386 includes its own Expanded Memory Manager (see Myth #3). With Windows/286, expanded memory is available for the network.

- Running one DOS application under Windows/386 is slower than running it under Windows/286.

  Because of the amount of overhead of Windows/386, Windows/286 outperforms if only one DOS application is running. This isn't usually the case, but interesting to note.

There are times, of course, when Windows/386 is the better product for you. The best example is the need to multitask your DOS applications (make sure you have at least 4 MBytes). Most of you though, probably need only the ability to switch between applications, and Windows/286 provides this capability.

---

**Myth #2**

**With Windows/386, 1 or 2 MBytes of memory should be fine. That's what the package says...**

If you read the back of the Microsoft Windows/386 package, it states that 1 MByte is the **minimum** amount of memory necessary to run this product; at least 2 MBytes is recommended. HP includes a card in a packet on the outside of the package which says "A minimum of 2 Mbytes of system memory is required with Windows/386 on your HP Vectra PC. For best performance, 4 Mbytes or more is recommended."

Here's what we've found running Windows/386 on the HP Vectra RS or QS PC:

- 1 MByte of memory:
  Windows/386 will not load.
- 2 MBytes of memory:
  Windows/386 will run. You will be able to run two small DOS applications (< =200 Kbytes) if you use PIFs and set "EMMSIZE = 0" in your WIN.INI file. You should also be able to run several small Windows applications (that is, **not** PageMaker or Excel).
- 4 MBytes of memory:
  You should be able to run three or four normal sized (200–350 Kbytes) DOS applications if you use PIFs and set "EMMSIZE = 0" in your WIN.INI file. You should also be able to run Windows applications.

Remember that these tests do not allow you any expanded memory. If you want Windows/386 to use expanded memory (that's what the "EMMSIZE =" is for), you'll have to run fewer DOS applications.

---

**Myth #3**

**I know I can't use HPEMM386.SYS as my Expanded Memory Manager (EMM), since Windows/386 has its own built-in EMM. If I turn HPEMM386.SYS to "Off" at the command line before running Windows/386, that should do the trick.**

Turning HPEMM/386 to "OFF" at the command line will **not** do the trick in all cases. Sometimes Windows/386 will load fine, other times (for example, with a network), the system will lock up. When running Windows/386 you will need to take the "DEVICE = HPEMM386. . . " completely out of your CONFIG.SYS file, and then restart your system, before running Windows/386.

---

**Myth #4**

**I can't monitor how Windows/386 uses memory. There's no way to tell what's being used as expanded, and what's being used as extended memory, since Windows/386 decides all of this for you.**

Unfortunately there is some truth to this myth, but there are ways to help you in monitoring Windows/386's memory consumption.

One way is to look at some of the lines in the WIN.INI file.

In your WIN.INI file, look for the header **[WIN386].** You'll see two lines:

**WINDOWMEMSIZE = 640**
**EMMSIZE =**

WINDOWMEMSIZE refers to the amount of memory reserved for Windows applications and the core of the Windows/386 code. If you run **only** DOS applications you can reduce this amount, but go no lower than 400. I recommend that you don't change this line unless you're desperate for memory and never run any Windows applications.

EMMSIZE refers to the amount of memory reserved for expanded memory. If you leave it blank (that's the default), up to half of the memory available after Windows/386 is loaded is reserved as expanded memory. If none of your applications use expanded memory, add a zero to the line. If you have applications that use expanded memory, define the specific amount you want set aside.

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**Q: Sometimes I have a problem when I try to use HIMEM.SYS* with Microsoft Windows/286 version 2.1. If I install Windows and correctly tell Windows that I have extended memory, the Windows Setup program runs MEMSET.EXE, which installs HIMEM.SYS and updates my CONFIG.SYS file. There is no problem.**

**But I've noticed that if I tell Windows I do not have extended memory (even though I really do) at setup time and attempt to run MEMSET on my own at a later time, I can't avoid an error message at Windows startup. The dialog box says:**

```
MEMORY CONFIGURATION ALTERED

Your computer's memory configuration
has been altered since you
originally setup Windows. For better
performance please re-install
Windows by using the setup program.
```

**I am tired of this message, especially since Windows Setup told me I could run MEMSET at any time later. It's time-consuming to re-install Windows completely. Users should be allowed to configure their extended memory and install HIMEM.SYS manually in CONFIG.SYS if they wish to.**

**Why does this happen, and how can I get rid of the dialog box, other than running Windows Setup again?**

A: Windows/286 2.1 Setup loads one of two different user modules, depending on whether or not you have extended memory. One supports HIMEM.SYS and the other does not. If you are ever going to run MEMSET or install HIMEM, now or later, you must tell Windows that you have extended memory.

If you want to configure your extended memory manually, simply say "NO" (which is **not** the default) when Windows Setup asks you if you want to run MEMSET. Don't tell Windows you don't have extended memory. You will receive the error message until HIMEM.SYS is installed.

If, however, you told Windows you didn't have extended memory, and now you want to run MEMSET or install HIMEM.SYS, you will get the "Memory Configuration Altered" message. At this point, the only choice is to reinstall Windows.

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*HIMEM.SYS is a driver you use with extended memory to provide approximately 50 Kbytes more conventional memory.

There are two issues with terminal emulators and Microsoft Windows/286 and Windows/386.

- The Terminal Desktop application program included with Windows 2.0 and Windows/386 is not a full terminal emulator program and does not include an HP data handshake protocol. For this reason, the Terminal application is not supported by HP as a terminal link to the HP 3000.
- Translation errors may occur with extended character sets when running HP AdvanceLink or HP Terminal Program under Windows 2.0 or Windows/386. This problem is discussed in detail below.

If you use an Enhanced Graphics Adapter Display System (EGA), you may experience difficulties when using Windows/286 or Windows/386 with HP AdvanceLink (versions B.00.01 and above), the HP Terminal Program, or other MS-DOS applications that use downloadable character sets.

When running these applications under Windows, errors can occur due to differences in the way characters are interpreted and displayed by the different software packages. These errors are explained below.

**Using Windows with HP Terminal Emulators**

HP terminal emulators support the use of two different downloadable character sets. These applications may be configured to run in either HP Mode, using the HP Roman8 character set, or in non-HP mode, using the standard PC-8 character set.

Windows, however, uses the PC-8 character set to display DOS applications, which can cause translation errors and incorrectly displayed characters. This situation applies only to those characters in the upper 128 character codes (that is, the "extended" characters, such as semigraphic figures, or characters used in non-English speaking countries) of these character sets.

**Running HP Terminal Emulators in HP Mode**

If you decide to configure HP AdvanceLink or HP Terminal Program to use HP Mode (that is, use the HP Roman8 character set), you could encounter the following:

- Some of the extended characters of the Windows Control menu may appear different than what is documented in the Windows User's Guide (for instance, the menu borders, or menu items when you use Windows' Mark, Copy, and Paste functions). Although the Control Menu may appear different, the menus will still be readable and work correctly.
- Some extended characters may transfer incorrectly when copying text from your HP terminal emulation program to another application using the Windows' Copy and Paste functions.

**Running HP Terminal Emulators in Non-HP Mode**

If you decide to configure HP AdvanceLink or HP Terminal Program to use non-HP Mode (that is, use the PC-8 character set), you could encounter the following:

- Some extended characters received by your terminal emulator from your host computer may be lost or displayed incorrectly. This problem is not unique to Windows. If you have chosen to run your terminal emulator using the PC-8 character set, you will experience these translations problems regardless of whether or not you are running the terminal application under Windows.
- Some extended characters may transfer incorrectly when copying text from your HP terminal emulation program to another application using the Windows' Copy and Paste functions.

**Configuring Your HP Terminal Application**

You can configure your HP terminal application for HP Mode or non-HP Mode through its Global Configurations Menu. Set the "Vectra Mode" (in AdvanceLink) or "HP Mode" (In HP Terminal Program) to "YES" to use the HP Roman8 character set. Set the field to "NO" to use the PC-8 character set. You may need to experiment with these configurations to determine the best setting for use with your application.

□

## PageMaker 1.0 and 3.0: Using Special Characters

Howard Stateman

PageMaker 1.0 and 3.0 are capable of printing many characters which are not on the keyboard. You can display these 8-bit ANSI characters by using the `Alt` key along with the 3-digit or 4-digit ANSI code entered on the **numeric** keypad.

**PageMaker 1.0**

In PageMaker® 1.0, to use special characters:

1. Choose the "A" in the toolbox for text mode.
2. Move the bracket cursor to the position for the special character, and click.
3. Hold down the `Alt` key.
4. Enter the 3-character ANSI code on the numeric keypad.
5. Release the `Alt` key.

The character will appear **after** the `Alt` key is released.

Here is a list of commonly used special characters, their ANSI code, and which standard fonts support them. Please note that since not all fonts support all special characters, it is recommended that you make a test print from PageMaker to confirm that the character is supported by the current font.

Here is a key to the characters and fonts.

**Characters**

| | |
|---|---|
| l/c | = lower case |
| u/c | = upper case |
| accent grave | = ` |
| accent aigu | = ' |
| caret | = ^ |
| cedilla | = "¸" marking under a letter as in French "garçon" |
| umlaut | = Two dots above a letter as in German "schön" |
| circle | = Small circle centered above, as in "ångstrom" |

**Fonts**

| | |
|---|---|
| Tms | = Roman |
| Scr | = Script |
| Mod | = Modern |
| Cou | = Courier |
| Lpt | = Line printer |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 001 | | 037 | % | | | | | 156 | £ | | • |
| 002 | | 038 | & | First character | | | | 157 | ¥ | | • |
| 003 | | 039 | ' | is without | | | | 158 | p | | • |
| 004 | • | 040 | ( | leading zero | | | | 159 | f | | • |
| 005 | – | 041 | ) | | | | | 160 | á | | |
| 006 | — | 042 | * | 123 | { | { | | 161 | í | | ¡ |
| 007 | | 043 | + | 124 | \| | \| | | 162 | ó | | ¢ |
| 008 | | 044 | , | 125 | } | } | | 163 | ú | | £ |
| 009 | | 045 | - | 126 | ~ | ~ | | 164 | ñ | | ¤ |
| 010 | " | 046 | . | 127 | • | • | | 165 | Ñ | | ¥ |
| 011 | " | 047 | / | 128 | Ç | • | | 166 | ª | | \| |
| 012 | | 048 | 0 | 129 | ü | • | | 167 | º | | § |
| 013 | | 049 | 1 | 130 | é | • | | 168 | ¿ | | ¨ |
| | | 050 | 2 | 131 | â | • | | 169 | ⌐ | | © |
| 014 | | 051 | 3 | 132 | ä | • | | 170 | ¬ | | ª |
| 015 | | 052 | 4 | 133 | à | • | | 171 | • | | « |
| 016 | | 053 | 5 | 134 | å | • | | 172 | • | | ¬ |
| 017 | | 054 | 6 | 135 | ç | • | | 173 | ¡ | | - |
| 018 | | 055 | 7 | 136 | ê | • | | 174 | « | | ® |
| 019 | | 056 | 8 | 137 | ë | • | | 175 | » | | ¯ |
| 020 | | 057 | 9 | 138 | è | • | | 176 | | | ° |
| 021 | | 058 | : | 139 | ï | • | | 177 | | | • |
| 022 | | 059 | ; | 140 | î | • | | 178 | | | • |
| 023 | | 060 | < | 141 | ì | • | | 179 | \| | | • |
| 024 | 3 | 061 | = | 142 | Ä | • | | 180 | + | | ´ |
| 025 | | 062 | > | 143 | Å | • | | 181 | + | | • |
| 026 | | 063 | ? | 144 | É | • | | 182 | + | | ¶ |
| 027 | | 064 | @ | 145 | æ | ‘ | | 183 | + | | · |
| 028 | | 065 | A | 146 | Æ | ’ | | 184 | + | | ¸ |
| 029 | | 066 | B | 147 | ô | “ | | 185 | + | | • |
| | | 065-122 are | | 148 | ö | ” | | 186 | \| | | º |
| 030 | | A-Z and a-z | | 149 | ò | • | | 187 | + | | » |
| 031 | | | | 150 | û | – | | 188 | + | | • |
| 032 | | | | 151 | ù | — | | 189 | + | | • |
| 033 | ! | | | 152 | ÿ | • | | 190 | + | | • |
| 034 | " | | | 153 | Ö | • | | 191 | + | | ¿ |
| 035 | # | | | 154 | Ü | • | | 192 | + | | À |
| 036 | $ | | | 155 | ¢ | • | | 193 | + | | Á |

Times Roman

| Code | Character | Tms | Scr | Mod | Cou | Lpt |
|---|---|---|---|---|---|---|
| 127 | l/c o, accent grave | | | | x | |
| 128 | u/c C, cedilla | x | x | x | x | x |
| 129 | l/c u, umlaut | x | x | x | x | x |
| 130 | l/c e, accent ague | x | x | x | x | x |
| 131 | l/c a, caret | x | x | x | x | x |
| 132 | l/c a, umlaut | x | x | x | x | x |
| 133 | l/c a, accent grave | x | x | x | x | x |
| 134 | l/c a, circle | x | x | x | x | x |
| 135 | l/c c, cedilla | x | x | x | x | x |
| 136 | l/c e, caret | x | x | x | x | x |
| 137 | l/c e, umlaut | x | x | x | x | x |
| 138 | l/c e, accent grave | x | x | x | x | x |
| 139 | l/c i, umlaut | x | x | x | x | x |
| 140 | l/c i, caret | x | x | x | x | x |
| 141 | l/c i, accent grave | x | x | x | x | x |
| 142 | u/c A, umlaut | x | x | x | x | x |
| 143 | u/c A, circle | x | x | x | x | x |
| 144 | u/c E, accent aigu | x | x | x | x | x |
| 145 | l/c ae (single char.) | | | | x | x |
| 146 | u/c AE (single char.) | | | | x | x |
| 147 | l/c o, caret | x | x | x | x | x |
| 148 | l/c o, umlaut | x | x | x | x | x |
| 149 | l/c o, accent grave | x | x | x | x | x |
| 150 | l/c u, caret | x | x | x | x | x |
| 151 | l/c u, accent grave | x | x | x | x | x |
| 152 | l/c y, umlaut | x | x | x | x | x |
| 153 | u/c O, umlaut | x | x | x | x | x |
| 154 | u/c u, umlaut | x | x | x | x | x |
| 155 | cent symbol | x | x | x | x | x |
| 156 | British Pound symbol | x | x | x | x | x |
| 157 | Japanese Yen symbol | | | | x | x |
| 158 | l/c p | x | x | x | x | x |
| 159 | l/c f | x | x | x | x | x |
| 160 | l/c a, accent aigu | x | x | x | x | x |
| 161 | l/c i, accent aigu | x | x | x | x | x |
| 162 | l/c o, accent aigu | x | x | x | x | x |
| 163 | l/c u, accent aigu | x | x | x | x | x |
| 164 | l/c n, tilde | x | x | x | x | x |
| 165 | u/c n, tilde | x | x | x | x | x |
| 166 | l/c a, underline | | | | x | x |
| 167 | l/c o, underline | | | | x | x |
| 168 | upside-down "?" | x | x | x | x | x |
| 169 | – – – – – – – – – – no special character – – – – – – – – – – | | | | | |
| 170 | rubout character | | | | x | x |
| 171 | 1/2 symbol | | | | x | x |
| 172 | 1/4 symbol | | | | x | x |
| 173 | upside-down "!" | x | x | x | x | x |
| 174 | << | | | | x | x |
| 175 | >> | | | | x | x |
| 176-178 | – – – – – – – – – – – no special character – – – – – – – – – – – | | | | | |
| 179 | vertical bar | x | x | x | x | x |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 001 | 037 % | | | | 156 £ | • | |
| 002 | 038 & | | | | 157 ¥ | • | |
| 003 | 039 ' | | | | 158 p | • | |
| 004 • | 040 ( | | | | 159 f | • | |
| 005 – | 041 ) | | | | 160 á | | |
| 006 — | 042 * | | | | 161 í | | ¡ |
| 007 | 043 + | | | | 162 ó | | ¢ |
| 008 | 044 , | | | | 163 ú | | £ |
| 009 | 045 - | | | | 164 ñ | | ¤ |
| 010 ‟ | 046 . | | | | 165 Ñ | | ¥ |
| 011 ″ | 047 / | | | | 166 ª | | ¦ |
| 012 | 048 0 | | | | 167 º | | § |
| 013 | 049 1 | | | | 168 ¿ | | ¨ |
| | 050 2 | | | | 169 ⌐ | | © |
| 014 | 051 3 | | | | 170 ¬ | | ª |
| 015 | 052 4 | | | | 171 • | | « |
| 016 | 053 5 | | | | 172 • | | ¬ |
| 017 | 054 6 | | | | 173 ¡ | | - |
| 018 | 055 7 | | | | 174 « | | ® |
| 019 | 056 8 | | | | 175 » | | ¯ |
| 020 | 057 9 | | | | 176 | | ° |
| 021 | 058 : | | | | 177 | | • |
| 022 | 059 ; | | | | 178 | | • |
| 023 | 060 < | | | | 179 \| | | • |
| 024 5 | 061 = | | | | 180 + | | ´ |
| 025 | 062 > | | | | 181 + | | • |
| 026 | 063 ? | | | | 182 + | | ¶ |
| 027 | 064 @ | | | | 183 + | | · |
| 028 | 065 A | | | | 184 + | | ¸ |
| 029 | 066 B | | | | 185 + | | • |
| | 065-122 | | | | 186 \| | | º |
| 030 | are | | | | 187 + | | » |
| 031 | A-Z and a- | | | | 188 + | | • |
| 032 | z | | | | 189 + | | • |
| 033 ! | | | | | 190 + | | • |
| 034 " | | | | | 191 + | | ¿ |
| 035 # | | | | | 192 + | | À |
| 036 $ | | | | | 193 + | | Á |

First character is without leading zero

| | | |
|---|---|---|
| 123 { | | { |
| 124 \| | | \| |
| 125 } | | } |
| 126 ~ | | ~ |
| 127 • | | • |
| 128 Ç | | • |
| 129 ü | | • |
| 130 é | | • |
| 131 â | | • |
| 132 ä | | • |
| 133 à | | • |
| 134 å | | • |
| 135 ç | | • |
| 136 ê | | • |
| 137 ë | | • |
| 138 è | | • |
| 139 ï | | • |
| 140 î | | • |
| 141 ì | | • |
| 142 Ä | | • |
| 143 Å | | • |
| 144 É | | • |
| 145 æ | | ` |
| 146 Æ | | ' |
| 147 ô | | " |
| 148 ö | | " |
| 149 ò | | • |
| 150 û | | – |
| 151 ù | | — |
| 152 ÿ | | • |
| 153 Ö | | • |
| 154 Ü | | • |
| 155 ¢ | | • |

Courier

| Code | Character | Tms | Scr | Mod | Cou | Lpt |
|---|---|---|---|---|---|---|
| 180-224 | – – – – – – – – – – – no special character – – – – – – – – – – – | | | | | |
| 225 | l/c Greek beta | x | x | x | x | x |
| 226-229 | – – – – – – – – – – – no special character – – – – – – – – – – – | | | | | |
| 230 | l/c Greek micron (u) | x | x | x | x | x |
| 231-240 | – – – – – – – – – – – no special character – – – – – – – – – – – | | | | | |
| 241 | +/– symbol | | | | x | x |
| 242-247 | – – – – – – – – – – – no special character – – – – – – – – – – – | | | | | |
| 248 | superscripted circle | x | x | x | x | x |
| 249 | solid square | | | | x | x |
| 250 | solid square | | | | x | x |
| 251 | – – – – – – – – – – – no special character – – – – – – – – – – – | | | | | |
| 252 | l/c n | x | x | x | x | x |
| 253 | rubout character | | | | x | x |
| 254 | umlaut | | | | x | x |
| 255-256 | – – – – – – – – – – – no special character – – – – – – – – – – – | | | | | |

Standard keyboard characters are ANSI codes 64-127. Characters below 65, which include the paragraph symbol (20), will display on the screen in Pagemaker 1.0 if two leading zeros are added to the code, but they will not print.

**PageMaker 3.0**

PageMaker 3.0, or PageMaker 1.0 with version 3.0 printer drivers, allows you to print even more special characters which are listed below. These require a leading zero, making a 4-digit `Alt` code. A list of these can be found in your *PageMaker 3.0 Reference Manual, Appendix D.*

Please note that most of the following special characters will display but not print with PageMaker version 1.0 printer drivers.

| Code | Character |
|---|---|
| 0161 | upside-down "!" |
| 0162 | cent sign |
| 0163 | British Pound sign |
| 0164 | Registration mark |
| 0165 | Japanese Yen sign |
| 0166 | fence (pipe symbol) |
| 1067 | Section symbol |
| 0168 | Umlaut |
| 0169 | Copyright symbol |
| 0170 | l/c a |
| 0171 | << |
| 0172 | upper right corner |
| 0173 | underline |
| 0174 | Registered trademark symbol |
| 0175 | em dash |
| 0176 | circle, centered |
| 0177 | +/− sign |
| 0178 | "2" superscript |
| 0179 | "3" superscript |
| 0180 | accent aigu |
| 0181 | Greek mu |
| 0182 | Paragraph symbol |
| 0183 | period |
| 0184 | comma |
| 0185 | number 1 |
| 0186 | circle superscript |
| 0187 | >> |
| 0188 | 1/4 |
| 0189 | 1/2 |
| 0190 | 3/4 |
| 0191 | upside-down "?" |
| 0192 | u/c A, accent grave |
| 0193 | u/c A, accent aigu |
| 0194 | u/c A, carat |

| Code | Character |
|---|---|
| 0195 | u/c A, tilde |
| 0196 | u/c A, umlaut |
| 0197 | u/c A, circle |
| 0198 | u/c AE, single character |
| 0199 | u/c C, cedilla |
| 0200 | u/c E, accent aigu |
| 0201 | u/c E, accent grave |
| 0202 | u/c E, carat |
| 0203 | u/c E, umlaut |
| 0204 | u/c I, accent aigu |
| 0205 | u/c I, accent grave |
| 0206 | u/c I, carat |
| 0207 | u/c I, umlaut |
| 0208 | u/c D, dash |
| 0209 | u/c N, tilde |
| 0210 | u/c O, accent grave |
| 0211 | u/c O, accent aigu |
| 0212 | u/c O, carat |
| 0213 | u/c O, tilde |
| 0214 | u/c O, umlaut |
| 0215 | long dash |
| 0216 | u/c null sign |
| 0217 | u/c U, accent aigu |
| 0218 | u/c U, accent grave |
| 0219 | u/c U, carat |
| 0220 | u/c U, umlaut |
| 0221 | u/c Y, accent aigu |
| 0222 | u/c Greek Rho |
| 0223 | no special character |
| 0224 | l/c a, accent grave |
| 0225 | l/c a, accent aigu |
| 0226 | l/c a, carat |
| 0227 | l/c a, tilde |
| 0228 | l/c a, umlaut |
| 0229 | l/c a, circle |
| 0230 | l/c ae, single char |
| 0231 | l/c c, cedilla |
| 0232 | l/c e, accent aigu |
| 0233 | l/c e, accent grave |
| 0234 | l/c e, carat |
| 0235 | l/c e, umlaut |
| 0236 | l/c i, accent aigu |
| 0237 | l/c i, accent grave |
| 0238 | l/c i, carat |
| 0239 | l/c i, umlaut |

| | | | | |
|---|---|---|---|---|
| 127 ò | 156 £ | 185 + | 214 + | 243 _ |
| 128 Ç | 157 ¥ | 186 \| | 215 + | 244 _ |
| 129 ü | 158 p | 187 + | 216 + | 245 _ |
| 130 é | 159 f | 188 + | 217 + | 246 _ |
| 131 â | 160 á | 189 + | 218 + | 247 _ |
| 132 ä | 161 í | 190 + | 219 | 248 ° |
| 133 à | 162 ó | 191 + | 220 | 249 ■ |
| 134 å | 163 ú | 192 + | 221 | 250 ■ |
| 135 ç | 164 ñ | 193 + | 222 | 251 _ |
| 136 ê | 165 Ñ | 194 + | 223 | 252 n |
| 137 ë | 166 ª | 195 + | 224 _ | 253 ² |
| 138 è | 167 º | 196 - | 225 ß | 254 ¨ |
| 139 ï | 168 ¿ | 197 + | 226 _ | 255 |
| 140 î | 169 _ | 198 + | 227 ³ | 256 |
| 141 ì | 170 ¬ | 199 + | 228 _ | |
| 142 Ä | 171 ½ | 200 + | 229 _ | |
| 143 Å | 172 ¼ | 201 + | 230 u | |
| 144 É | 173 ¡ | 202 + | 231 _ | |
| 145 æ | 174 « | 203 + | 232 _ | |
| 146 Æ | 175 » | 204 + | 233 _ | |
| 147 ô | 176 | 205 = | 234 _ | |
| 148 ö | 177 | 206 + | 235 _ | |
| 149 ò | 178 | 207 + | 236 _ | |
| 150 û | 179 \| | 208 + | 237 _ | |
| 151 ù | 180 + | 209 + | 238 _ | |
| 152 ÿ | 181 + | 210 + | 239 _ | |
| 153 Ö | 182 + | 211 + | 240 _ | |
| 154 Ü | 183 + | 212 + | 241 ± | |
| 155 ¢ | 184 + | 213 + | 242 _ | |

Font:
Courier 12

| Code | Character |
|---|---|
| 0240 | l/c o, upside-down "^" |
| 0241 | l/c n, tilde |
| 0242 | l/c o, accent grave |
| 0243 | l/c o, accent aigu |
| 0243 | l/c o, accent aigu |
| 0244 | l/c o, carat |
| 0245 | l/c o, tilde |
| 0246 | l/c o, umlaut |
| 0247 | bullet |
| 0248 | l/c null sign |
| 0249 | l/c u, accent aigu |
| 0250 | l/c u, accent grave |
| 0251 | l/c u, carat |
| 0252 | l/c u, umlaut |
| 0253 | l/c y, accent aigu |
| 0254 | l/c Greek Rho |

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**Q: When I'm generating fonts with Fontware for PageMaker, what sizes and type styles do you recommend for my screen and printer fonts?**

A: We recommend making screen fonts in sizes 8, 9, 10, 12, 14, 18 and 24 points for each typeface you plan to use. You need to make the fonts in the Roman face only. However, for PageMaker, if you use this version to simulate Bold, Italic, and Bold Italic, you'll save disk space.

In general, you should generate printer fonts only in the typefaces and specific sizes you will use. To save on disk and printer space, make only Roman and Italic versions, because the Windows printer driver can use them to simulate Bold and Bold Italic.

**Q: When I edited the definition of one text style, many other styles changed throughout the publication too. Why?**

A: You edited a "parent" style that had other styles based on it. Here's the quickest way to return all the styles to their original attributes:

1. Edit the parent style back to its original setting.
2. Edit each of the styles you don't want directly linked to the parent by deleting the parent from the "Based on" text box in each style's "Edit style" dialog box.
3. Edit the parent style so that it now has the attributes you want. At this point, editing the parent won't affect the styles formerly based on it.

**Q: Does PageMaker 3.0 support WordPerfect 5.0 files?**

A: Yes. Aldus offers a Drivers/Filters package, and one of the things it includes is a WordPerfect 5.0 filter. To order, call Aldus Customer Support at (206) 628-2320 in the U.S. In the meantime, you can import WordPerfect 5.0 files by saving them in the WordPerfect 4.2 format, which PageMaker does accept.

**Q: When would I want to create and install Fontware fonts using the ASCII, rather than the ANSI, character set?**

A: The ASCII character set has fewer characters than the ANSI set, so it takes up less space on your hard disk. Use the ASCII character set if you're short of hard disk space and if you don't need all the extended characters of the ANSI set. For a complete listing of what's in each character set, see Appendix B of "Fontware for PageMaker," which came with your PageMaker Fontware package.

[*Be sure to send your PageMaker registration card so that you will receive the* Master Pages *newsletter.*]

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## HP Vectra PC Family: 3.5-inch Drive and INDSKBIO.SYS Driver

George Chinn

Here are some commonly asked questions and answers on the 3.5-inch drive and the INDSKBIO.SYS driver that is shipped with it.

**Q: Do I need the INDSKBIO.SYS driver in order to use the 3.5-inch drive?**

A: In order to read, write, and format disks with the 3.5-inch drive, you need to install the 3.5-inch driver **only** if you have a pre-ES Vectra PC. The only time you need to install the driver for the HP Vectra CS, ES, RS, or QS PCs is to read and write HP150 disks (ROM version D or later). You should note that the 3.5-inch drive is supported only as the B drive in the pre-ES Vectras.

**Q: I seem to have trouble accessing my B drive when I have the 3.5-inch drive as the A drive, and the 5.25-inch as the B drive.**

A: If you are **not** using the 3.5-inch drive as the B drive, **do not** use 35INSTAL. 35INSTAL assumes the 3.5-inch drive is the B drive. You need to manually install the INDSKBIO.SYS driver by doing the following:

1. Copy INDSKBIO.SYS to your hard disk.
2. Type the following into your CONFIG.SYS file:

   **drivparm = /d:X /f:7 /t:80 s:18 /h:2 /c**
   **device = indskbio.sys /d:X**

   where X is 0 if the 3.5-inch drive is drive A
   where X is 1 if the 3.5-inch drive is drive B

Below is an explanation of the parameters in the DRIVPARM statement:

| | | |
|---|---|---|
| /d | physical drive type | |
| /f | device type | 0 160/180 or 320/360K drive |
| | | 1 1.2 MB drive |
| | | 2 720K drive |
| | | 7 1.44MB drive |
| /t | number of tracks per side | |
| /s | number of sectors per track | |
| /h | maximum number of heads | |
| /c | indicates changeline (whether door of disk drive is open or closed) | |

**Q: Do I need to install the INDSKBIO.SYS driver for certain versions of MS-DOS?**

A: If you have MS-DOS 3.2 version B.01.01 or later, and have a pre-ES Vectra PC, then you need to install the driver in order to read, write, or format disks with your 3.5-inch drive. 3.5-inch drives are not supported with MS-DOS 3.1 or earlier.

**Q: I can't format 720Kbyte disks on my 3.5-inch drive.**

A: The first issue here is whether you have a CS, ES, RS, or QS PC. If you do, remove the DRIVPARM and DEVICE=INDSKBIO.SYS statements from CONFIG.SYS. This will solve the problem.

If you have a pre-ES Vectra PC, check the version number of the INDSKBIO.SYS driver. If you have version B.01.01, then you need to get either the new version of the driver (B.01.02), or insert "/at0" after DEVICE= INDSKBIO.SYS in CONFIG.SYS as follows.

**DEVICE=INDSKBIO.SYS /at0**
**(where 0 = zero)**

**Q: When I format my 1.44Mbyte disk on my pre-ES Vectra PC, the system tells me that I have only 1.2 MB on the disk.**

A: The main cause of this problem is that the INDSKBIO.SYS driver is either not installed, or that the DRIVPARM statement in CONFIG.SYS is not correct. Refer to your installation guide to make sure that the DRIVPARM statement is correct.

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## Accessing The Command Line From Compiled BASIC

Brian Rainie

*Communicator* reader Vivek Mehta sent a letter concerning an attempt to gain access to the MS-DOS command line from his Compiled BASIC program. Typically, the command line is used to pass information to a program which requires very little input to run. An example of this would be a disk copying program. Rather than having the program prompt you for the drive letters, it scans the command line for the information. For example: DISKCOPY A: B:

Vivek included a sample subroutine (which he referred to as a "juvenile attempt"), and it was very close to fully operational. It did have a couple of design problems though, which made it somewhat unreliable.

The first problem I discovered was that he was passing a return string of 80 characters to hold the information being passed back. This is all right, but a command line can actually expand to 128 characters. His version would probably blow up if it was passed anything of extensive length. But this was really a minor problem.

The only other problem I saw concerned finding the command line in memory. This is the tricky part. He made the assumption that the base address of the Program Segment Prefix (described later) is always 256 bytes below the current value in the CS register. This will probably work for most programs written with his particular compiler, but may not remain constant from version to version or machine to machine.

Well, he asked for help; so here we go...

### The Program Segment Prefix

When a program is loaded into memory for execution, the system precedes it with a special area called the Program Segment Prefix (PSP). This area holds overhead values, tables, interrupt vectors, a couple of file buffers, and so on. Basically, it is used by the system to help the program run.

Included within this area, starting at the 80H position, is a copy of the command line used to start the program executing. Anything typed after the program name is copied into this area. The first byte of this area reflects how many characters are found, and the following bytes hold the actual text. The maximum size of the text line is 128 bytes.

This is all well and good, but how do you find the Program Segment Prefix in memory? Many programmers assume that it will always be 256 bytes in length and directly precede the first byte of code. Going on these assumptions, they would subtract 10H (16 paragraphs, 256 bytes) from the CS register (start of the code segment) to locate it. This is rather dangerous if CS has been altered, or MicroSoft changes the length of the PSP area.

Is there a better way to find it? Yes, and no. There is an MS-DOS function you can call in assembly language via Interrupt 23H which will return the address of the PSP, no matter what value is in CS or what size the PSP was set to. This is not documented in your Programmer's Reference manual. The bad news is that MicroSoft will not support the use of functions included in the operating system, but not documented. The good news is that their utility programs make extensive use of them, which means that they will have to work (virtually) forever!

**Code Samples**

Below you will find three source listings. The first is a simple Assembly Language subroutine which returns the command line text to a Compiled BASIC program. (It wouldn't make sense to use this under the interpreter because the RUN command does not allow the passing of text.) The second is a sample BASIC program which calls the procedure and displays what it finds. The third is the same BASIC program, with a copy of the assembled code within it, just in case you don't own a copy of the assembler.

*[This article and the source code, and all* Communicator *articles are available in the HP Forum on the CompuServe Information Service. For more information on CompuServe, refer to "Answers to Your Questions" in the green pages.]*

**Assembly Language Subroutine**

```
page    60,132
title   GET COMMAND LINE STRING
;       © Copyright 1986 by Brian Rainie
.lall
.lfcond
;*********************************************************************
;*  Define enter and exit macros. Format when entering procedure is to  *
;*  use ENTERBP [<number of parameters>]. If the number of parameters *
;*  is not specified, the BP register is not stored for safekeeping. To return  *
;*  from the procedure, simply use RETBP.                               *
;*********************************************************************
enterbp macro   parmcnt
        ifidn   <parmcnt>, <>
        parms = 999
        else
        parms = parmcnt
        push    bp
        mov     bp,sp
        add     bp,parms*2+4
        endif
        push    ds
        push    es
        endm
retbp   macro
        pop     es
        pop     ds
        if      parms ne 999
        pop     bp
        ret     parms*2
        else
        ret
        endif
        endm
;*********************************************************************
;*  Define parameter equates. The enterbp macro sets up the BP reg in such *
;*  a way as to make parameter referencing much easier. Most people use  *
;*  [bp+6] to reference the last param, [bp+8] to reference the second  *
;*  from the last, and so on. This is hard to read and is difficult to update  *
;*  when the number of parameters must be changed. By enterbp and the  *
;*  following equates, parameters are now referenced by the using names  *
;*  parm1, parm2, etc. (e.g.: mov ax,parm3).                            *
;*********************************************************************
parm1   equ   [bp]
parm2   equ   [bp-2]
parm3   equ   [bp-4]
parm4   equ   [bp-6]
parm5   equ   [bp-8]
parm6   equ   [bp-10]
parm7   equ   [bp-12]
parm8   equ   [bp-14]
```

```
;*********************************************************************
;*  Define getsdbd macro. This macro will load the cx and di reg.s with  *
;*  the length and address of the string specified by a parameter name.  *
;*  As an example, "getsdbd parm1" would load the SDB of the string      *
;*  variable passed as parameter 1 into cx and di.                       *
;*********************************************************************
getsdbd macro  paramspec
        mov    di,paramspec
        mov    cx,[di]
        mov    di,[di+2]
        endm

code            segment byte public 'code'
                public cmdline
                assume cs:code
;*********************************************************************
;*  CALL CMDLINE(<return string>,<new length>)                       *
;*  This routine copies the contents of the command line parameter list  *
;*  into the return string, and passes back the number of bytes the string  *
;*  should be truncated to.                                          *
;*  The return string should be set to 128 blanks before the call!   *
;*  The integer variable new-length value will be overwritten.       *
;*********************************************************************
cmdline    proc    far
           enterbp 2
           getsdbd parm1       ;Get len/addr of str into cx,di
           push    ds          ;Set es = ds
           pop     es          ;
           cld                 ;Forward copying
           mov     ah,51H      ;Function: Get seg prefix addr
           int     21H         ;Call UNDOCUMENTED function
           mov     ds,bx       ;Point ds at seg prefix area
           mov     si,80H      ;Point si at formatted line
           xor     ch,ch       ;Clear hi byte of cx
           mov     cl,[si]     ;Get length into low byte of cx
           push    cx          ;Save copy of length on stack
           inc     si          ;Point si at start of text
           rep     movsb       ;Copy the command line text
           push    es          ;Set ds = es
           pop     ds          ;
           mov     bx,parm2    ;Get addr of newlen var into bx
           pop     [bx]        ;Store the length
           retbp
cmdline    endp
code       ends
           end
```

**Sample BASIC Program**

```
10 PRINT "This program prints out the command line passed to it."
20 PRINT
30 GOSUB 1000 ' Get command line
40 WRITE CMDLINE$
50 END
1000 REM
1010 REM Subroutine: Get command line
1020 REM
1040 CMDLINE$=SPACE$(128)
1050 CALL CMDLINE(CMDLINE$,NEWLEN%)
1060 CMDLINE$=LEFT$(CMDLINE$,NEWLEN%)
1070 RETURN
```

---

**BASIC Program Plus Assembled Code**

```
10 PRINT "This program prints out the command line passed to it."
20 PRINT
30 GOSUB 1000 ' Get command line
40 WRITE CMDLINE$
50 END
1000 REM
1010 REM Subroutine: Set up ASM sub to get command line, then call it
1020 REM
1030 DIM CMDLINE.CODE%(24) : CMDLINE.CODE%=0
1040 FOR I=0 TO 24
1050   READ TEMP1$,TEMP2$
1060   CMDLINE.CODE%(I)=VAL("&H"+TEMP2$+TEMP1$)
1070 NEXT I
1080 REM The following is code for an assembly language sub which
1090 REM returns the command line text to a string variable.
1100 DATA 55,8B,EC,83,C5,08,1E,06,8B,7E,00,8B,0D,8B,7D,02,1E,07,FC,B4
1110 DATA 51,CD,21,8E,DB,BE,80,00,32,ED,8A,0C,51,46,F3,A4,06,1F,8B,5E
1120 DATA FE,8F,07,07,1F,5D,CA,04,00,00
1130 REM The following statements call the sub to get the command line
1140 CMDLINE$=SPACE$(128)
1150 CMDLINE.CODE%=VARPTR(CMDLINE.CODE%(0))
1160 CALL ABSOLUTE(CMDLINE$,NEWLEN%,CMDLINE.CODE%)
1170 CMDLINE$=LEFT$(CMDLINE$,NEWLEN%)
1180 RETURN
```

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Computer Museum

# Using Multiple HP BASIC Language Processors in a Single HP Vectra PC

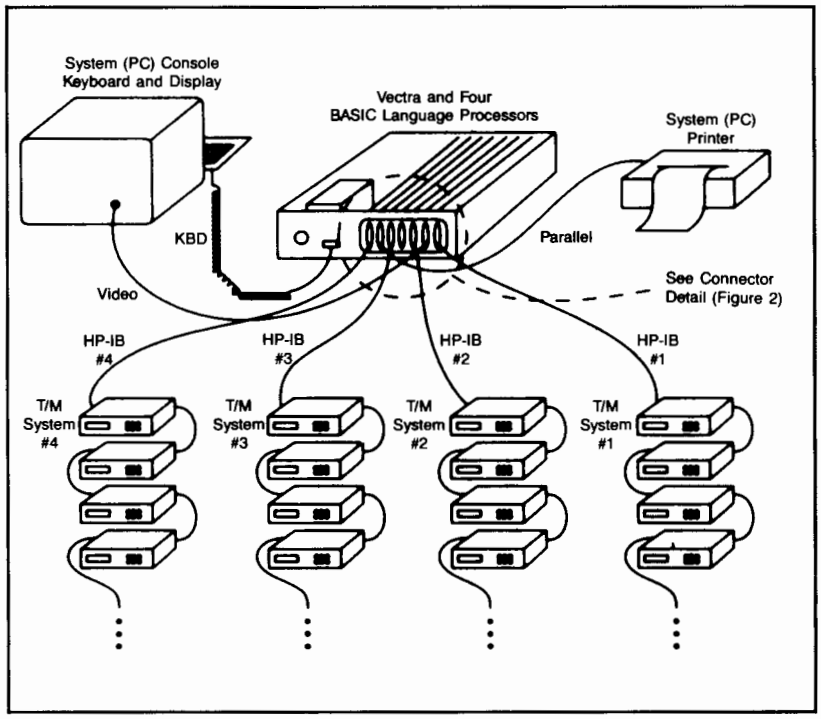
Paul Ferguson

Since the introduction of the HP BASIC language processor (HP 82300), many of you have asked if more than one language processor could operate simultaneously within one PC.

Last year, HP development engineers verified that up to four language processors could, in fact, run simultaneously in one HP Vectra PC. All cards were operating in "background," each driving its own exclusive HP-IB and sharing the HP Vectra PC parallel printer. While this was going on, the HP Vectra PC was performing a normal PC-DOS task, such as word processing.

While limitations certainly exist, this represents a tremendous breakthrough in controller cost, where multiple controllers are needed for test and measurement applications. A minimum host environment would include, for example, an HP Vectra CS PC Model 15, VGA display adapter, and a monochrome display. Add to this four HP BASIC language processors, and you now have four independent controllers sharing a keyboard, display, and mass storage (see figure below).

**Multiple Language Processor Cards**

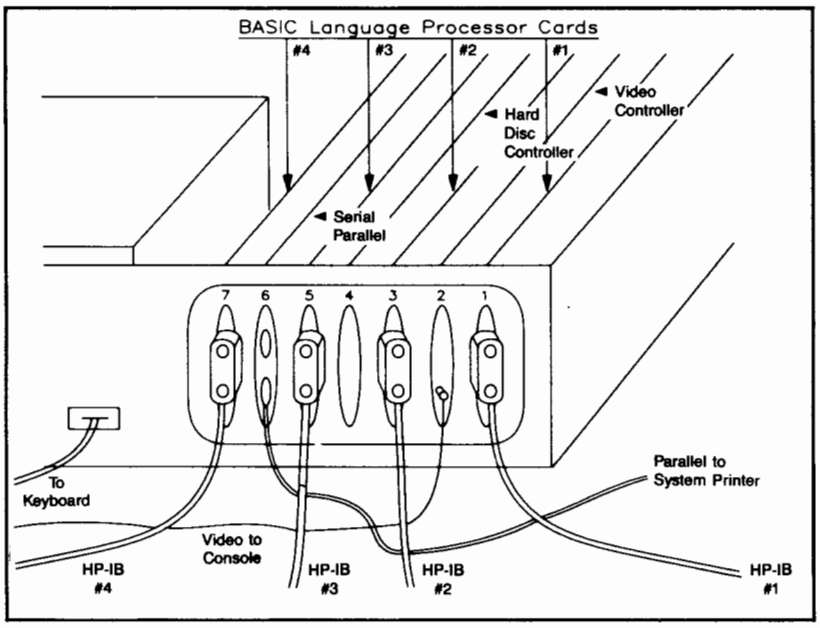


The major constraint you will face in this environment is expansion slot space within the PC (and the associated PC interrupt levels). We conducted our tests on a pre-ES HP Vectra PC rather than the newer HP Vectra PCs. The accessory card configuration for an HP Vectra ES, ES/12, QS, or RS PC will be slightly different than what we tested. Our configuration consisted of four language processor cards, one full-length monochrome multimode video card, one half-length and one full-length hard disk controller. The tested configuration had three language processor cards with 512 Kbytes and one with 1 Mbyte of RAM.

In some configurations, you could have up to three language processor cards with RAM or ROM daughter boards installed. Power consumption will not be a problem since the language processor card draws about five watts, which is well below the rated capacity of each HP Vectra PC expansion slot.

We placed the cards in alternating HP Vectra PC expansion slots to accommodate the HP-IB connectors and cables more easily. Typically, this means you will have to move the hard disk controller from where it is usually located to another slot. This poses no problem. Refer to the next figure for the card layout and cabling detail.

**Cabling and Layout for Multiple Language Processor Configuration**




Note: The above configuration is for an HP Vectra CS PC. On the HP Vectra ES, ES/12, QS and RS PCs, the hard disk controller cables may not be long enough.

The greatest operational restriction will be that the BASIC application program must run in the background. This presents no problem with HP-IB control or data transfer, since each language processor contains its own HP-IB interface. With the exception of the HP Vectra PC beeper and parallel printer, however, the language processor is prevented from accessing HP Vectra PC resources unless the individual language processor card is "attached" to the foreground. This attachment process is simple (it can be done with one keystroke) and fast (two or three seconds), but you can be attached to only one language processor card at a time.

Each language processor card must have a unique interrupt level and I/O address. Refer to the Appendix in the HP 82321 Language Processor Installation Instructions (P/N 82321-90007) for information on how to change these settings. We used the following in our configuration:

| Card | Interrupt level | I/O address |
|---|---|---|
| 1 | 7 | 250 (factory setting) |
| 2 | 5 | 280 |
| 3 | 4 | 330 |
| 4 | 3 | 390 |

Each language processor card must also have its own home directory on the HP Vectra PC disk, such as c: \ hpw, c: \ hpw2, c: \ hpw3, and c: \ hpw4. Each of these directories will have a configuration file that will correspond to one of the language processor cards.

To install the software for multiple language processor cards, follow the normal installation procedure for the first card. Install the software for this first card in directory c: \ hpw. Once the installation is complete, copy all the files from c: \ hpw to the other subdirectories, c: \ hpw2, c: \ hpw3, and c: \ hpw4. For example,

**copy c: \hpw *.*c: \hpw2**

and so on. Now set up the configuration files so that each file will correspond to only one of the language processor card addresses and interrupt settings described above. If you configured the first card as we did, you won't have to do anything further.

Use the "conf" program to configure the software for the remaining cards. You must run the conf program from each of the remaining directories: For example,

**cd \hpw2**
**conf**

Change the interrupt level and I/O address and save the configuration. Exit conf and go on to the next directory:

**cd \hpw3**
**conf**

Once you've completed this process for each of your language processor cards, you're ready to re-start your system and run HP BASIC. To make life easier, you can create DOS batch files called basic1.bat, basic2.bat, and so forth. These batch files do a Change Directory (cd) to the appropriate directory and run BASIC.

For more information, contact your local HP sales office.

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## HP Vectra PC Screen Dump Using MCS Utility Mike Stevens

**Q: How can I dump both text and Lotus 1-2-3® graphs from my HP Vectra PC screen to my printer? The `PRINT SCREEN` key doesn't seem to work.**

A: First, you need to load the MCS (Multiple Character Set) utility onto your Vectra. In the MS-DOS 3.2 set of Master disks, MCS comes on a separate disk. In DOS 3.3, it's in the \MCS subdirectory of the HP+ disk. In either case, you need to put the appropriate master disk into the A: drive, get into MS-DOS commands, change the DOS pointer to the A: drive and the directory where the MCS INSTALL.EXE program resides (A:\ for DOS 3.2, A: \MCS for DOS 3.3), and type INSTALL. There are three parts of MCS you can install, but you need only part 2: PSCREEN. The installation will copy the PSCREEN files to your disk and modify the AUTOEXEC.BAT file to load PSCREEN when you start your system.

After you've installed PSCREEN and re-started your Vectra, you should be able to dump text from your screen to your printer by pressing `SHIFT + Prt SC` on the HP Vectra PC or `Print Screen` on the HP Vectra ES/12 and QS/16. This works because the Automatic Video mode is correct for text. However, it doesn't work for graphics on an EGA monitor.

After pressing `Print Screen`, there's a five-second delay during which you can change the Video Mode. We found that Mode 16 works best with EGA graphics in Lotus. To set this mode, hold down the `ALT` key and type 16 on the numeric keypad during the five-second delay. To dump a text screen again, hold down `ALT` and press `A` during the delay.

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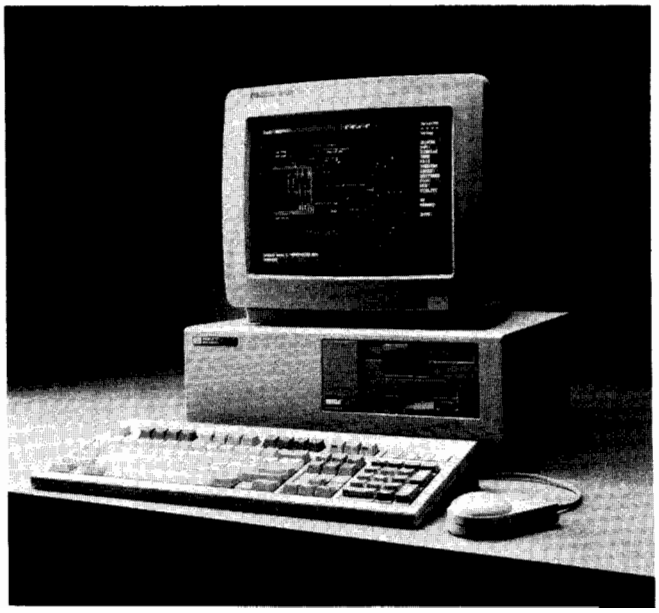

# Introducing the HP Vectra QS/20 PC

Yves de la Kethulle,
Marjorie Cannon

The most powerful desktop member of the HP Vectra PC family, the HP Vectra QS/20 PC, is now available. This computer combines the electronics of the award-winning HP Vectra RS/20 (*PC Magazine*, "Editor's Choice" June 28, 1988) with the Vectra desktop package. Combining HP's reliability and expandability, the HP Vectra QS/20 PC will satisfy your most demanding needs.

The new HP Vectra QS/20 PC is ideal for complex business applications such as large spreadsheets, database or presentation graphics, for desktop publishing, and for entry-level CAD/CAE applications. The QS/20 with its 20 MHz 80386 processor has the power to speed through the most sophisticated personal computer solutions.

**Technology**

Both the hardware and the system software reflect the HP Vectra QS/20 PC's use of state-of-the-art technology.

- High speed 108- and 152-MB ESDI hard disk subsystems with less than 17 ms seek times have been developed for the HP Vectra QS/20 PC to provide superior performance and reliability.
- The use of surface-mount and VLSI technology saves space and promotes reliability.
- A dual-bus architecture provides a dedicated 20 MHz 32-bit path for fast memory access and an industry standard (ISA) bus for I/O accessories.*
- Single In-Line Memory Modules (SIMMS) allow full system memory expansion up to 16 MB without taking up an I/O slot.
- The Intel 80387 math co-processor running at 20 MHz is supported for calculation intensive applications.
- Disk caching provides superior performance for disk intensive applications.
- Lotus®/Intel/Microsoft® Expanded Memory Specification (LIM EMS 4.0) enables MS-DOS applications written for LIM EMS to broaden the capability of memory installed.
- Terminal emulation offers easy connectivity to the HP 3000 and other computer systems.

*Available second calendar quarter 1989.

**Tested Compatibility**

The HP Vectra QS/20 PC has been thoroughly tested for compatibility, so you can use virtually any of the many applications and accessory cards currently available for the IBM PC/AT industry standard architecture. Operating systems that are fully compatible include MS-DOS 3.3, SCO XENIX, Microsoft OS/2 1.0 Version A, and Microsoft Windows/386.

**Solution Platforms**

The HP Vectra QS/20 PC is particularly well suited for complex applications in the office, large-scale business application, and CAD/CAE environments.

- **Power Office Users:**
  With its large memory capacity and built-in support for LIM EMS 4.0 expanded memory, the HP Vectra QS/20 PC is an ideal platform for Microsoft Windows, Microsoft Excel, HP NewWave Environment, and all the Windows-compatible applications. When coupled with the HP ScanJet scanner and HP LaserJet series II printer, the HP Vectra QS/20 PC provides a high throughput desktop publishing solution.
- **Business Applications:**
  With its 20 MHz 80386 processor, memory extension up to 16 MB, and high capacity, high speed half-height drives in a small package, the HP Vectra QS/20 PC is the ideal work-station for handling large spreadsheets and for manipulating huge databases.
- **CAD/CAE Applications:**
  When combined with an HP plotter and HP graphics tablet, the HP Vectra QS/20 PC significantly boosts the productivity of small engineering enterprises.

**Ordering Information**

All HP Vectra QS/20 PCs come standard with 1 MB of user memory, a flexible disk controller, an ESDI or ST-506 hard disk controller, a serial port, and a parallel port. All systems include a keyboard and a QS PC kit. A language option must be specified when ordering. To order, contact your local dealer or HP sales representative.

| Model Number | Product Number | Flexible Disk Size | Hard Disk (Mbytes) | Hard Disk Controller | Video Adapter |
|---|---|---|---|---|---|
| 10e | D1420A | 5.25-inch | none | ESDI | none |
| 15e | D1427A | 3.5-inch | none | ESDI | none |
| 46 | D1422A | 5.25-inch | 40 | ST-506 | VGA |
| 47 | D1424A | 3.5-inch | 40 | ST-506 | VGA |
| 100e | D1425A | 5.25-inch | 108 | ESDI | none |

The following accessories are also available:

| Product Number | Description |
|---|---|
| D1640A | 1 MB, 80 ns memory upgrade kit |
| D1642A | 4 MB, 80 ns memory upgrade kit |
| D1440A | Memory expansion adapter |
| D1670A | Intel 80387 coprocessor |
| D1445A | 108 MB ESDI hard disk drive* |
| D1446A | 152 MB ESDI hard disk drive* |

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*Available second calendar quarter 1989.

## Introducing the HP Intelligent Graphics Controller

Tom Anderson

HP recently introduced the HP Intelligent Graphics Controller (HP 82328A). This product is the first member in a family of high resolution graphics cards.

The HP Intelligent Graphics Controller gives PC and PC-AT compatible personal computer users the resolution and performance necessary to run CAD and other graphics-intensive applications. Coupled with compatible monitors such as HP Color Displays, HP High Resolution Color Monitors, or other industry standard monitors, the Intelligent Graphics Controller allows an extensive array of software packages to be displayed at 1024 by 768 non-interlaced resolution in 16 colors. An optional EGA Emulation Module provides EGA compatibility for those applications which do not use the high resolution mode.

### Product features

Based on the Texas Instruments TMS34010 graphics system processor, the controller provides high-speed vector, polygon, and circle generation, and offers these features:

- Extensive software compatibility. The board was originally designed to operate with ME10. A comprehensive set of software drivers is now available for the HP Intelligent Graphics Controller. These drivers provide support for a wide variety of applications including AutoCAD,™ VersaCAD DESIGN, Personal Designer, Micro Cadam Cornerstone, DataCAD, P-CAD, Conception 3D, GBG, and Word Perfect. Support for Microsoft Windows/286, GEM, and GSS CGI provides access to over 200 other applications.

  The optional EGA Emulation Module provides compatibility with over 5000 EGA applications. This module features "daughterboard" construction—it is built onto the controller card so the entire set requires only one slot. This product meets the needs of users who do not already own a standard PC video interface, or users who prefer to use a single monitor for their standard and high-resolution applications.

- Industry Standard Hardware Compatibility. The HP Intelligent Graphics Controller was designed with configuration flexibility in mind. PC and PC-AT bus personal computers as well as monitors from HP, Hitachi, NEC, and Mitsubishi can be used to create the CAD system which best meets your needs.
- Optimized For High Performance 2D Graphics. The HP Intelligent Graphics Controller provides PC and PC-AT bus personal computers with the non-interlaced 1024 by 768 resolution and the performance that is needed for demanding 2D graphics applications. It also provides 16 colors from a palette of 4,096. The controller comes with 896 KB of on-board memory. A portion of the dynamic RAM (512 KB) is available for other uses such as storing program code for direct execution by the TMS34010. You can expand this to a total of 2 MB, using the 512 KB RAM expansion kit, (HP 82303A).

**Ordering Information**

| Product Number | Description |
|---|---|
| 83238A | HP Intelligent Graphics Controller |
| 82329A | Emulation Module |
| D1188A | HP Color Display (16-inch) |
| D1187A | HP Color Display (20-inch) |
| 98785A | 16-inch High Resolution Color Monitor |
| 98751A | 19-inch High Resolution Color Monitor |

To order, contact your dealer or HP sales representative.

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|---|---|
| | As part of Hewlett-Packard's continuing effort to provide you with the software support your business demands, we have enhanced our personal computer software support program.<br>We have combined Work Group Coordinator Assistance and Personal Computer User Assistance into HP ResponseLine software support for personal computers. |
| **HP ResponseLine** | HP ResponseLine software support service for PCs provides centralized support for your personal computer software. This service includes telephone assistance with software problem resolution, software installation, hardware configuration, and clarification of documentation. You receive telephone assistance on HP and popular third-party PC software. You also receive access to HP SupportLine, a subscription to the *HP PC Communicator,* and first time purchasers receive a copy of *HP Vectra PC Family Fundamentals: A Computer-based Tutorial.*<br>HP ResponseLine support for PCs is available on all HP and Vectra compatible personal computers.<br>HP SupportLine is an electronic support tool for accessing information and contacting the HP Response Center. HP SupportLine gives you access to valuable information such as engineering notes, new product announcements, and software problem fixes. Its powerful keyword search and browse capabilities make it easy for you to locate the appropriate information. If you don't find the information you need in the HP SupportLine databases, you can place a call to the HP Response Center with the electronic call submittal feature. You may request either a two hour phone response or a next business day written response. |

| | |
|---|---|
| **Integrated PC Office Applications** | In addition to HP ResponseLine software support for PCs, we have added an integrated PC office application support option to our HP 3000 support services. Through purchase of this option you can expand the HP TeamLine or HP ResponseLine support of your HP 3000 to your personal computers. The integrated PC office application option provides a cost effective way for you to integrate the support of your office workstations into your overall HP software support contract. |
| **For Information** | For further information about the HP support services available for your personal computers, contact your local HP sales office. |

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## Introducing the HP DeskJet PLUS

David Starr

Hewlett-Packard has introduced a new printer, the HP DeskJet PLUS, HP 2277A. The HP DeskJet PLUS prints laser-quality (300 dpi) text and graphics two to five times faster than the original DeskJet printer and is still priced affordably. Based on a third generation of inkjet technology, the HP DeskJet PLUS printer offers a superior alternative to 24-wire printers.

The speed advances of the HP DeskJet PLUS printer PLUS are due to a faster microprocessor, a more efficient print head movement, and a faster paper motor and pickup mechanism. In addition to being faster, the HP DeskJet PLUS offers built-in landscape mode printing, larger fonts (now up to 30 points), more internal fonts (6 portrait, 4 landscape), and improved font spacing in proportionally pitched fonts.

For more information on the HP DeskJet PLUS printer, HP 2277A, contact your local dealer or HP sales representative.

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## HP's New 16- and 20-inch Color Displays Kari-Lee Bordsen

With HP's new 16- and 20-inch high resolution Color Displays, you can bring CAD, DTP and windowing environments to life.

If you need a large screen and/or high resolution display, the 16- and 20-inch Color Displays are the solution, with their vivid colors and brightness, sharply focused characters and images, and crisp, straight lines which frame the image. The Color Displays, along with HP's new Intelligent Graphics Controller (HP 82328A), provide HP Vectra and other PC-AT compatible users with a high quality 1024x768 resolution video solution. [*See the article on "Intelligent Graphics Controllers" in this issue.*]

Also available are custom-fit, tilt and swivel bases for both the 16- and 20-inch Color Displays. These bases offer you control of the display's viewing angle, which allows adjustments for room lighting.

**Product Features:**

- Multiscanning (multiple resolution) capability ranging from 640x480 (VGA) through 1280x1024—(30–64 kHz).
- Analog display with RGB interface.
- Superior display performance:
  —Dynamic Focus Control for improved corner focus
  —Brightness and contrast control for vivid colors
  —Front panel controls and power on/off for easy access

- Automatic synchronization. The display automatically senses and synchronizes on one of the four most popular resolutions pre-programmed into the digital, microprocessor-controlled memory (additional settings easily added).
- Digital Controls provide repeatability and accuracy of adjustments.

**Ordering Information**

| Product Number | Description |
|---|---|
| D1188A | 16-inch Color Display |
| D1190A | Tilt and Swivel Base for 16-inch Color Display |
| D1187A | 20-inch Color Display |
| D1189A | Tilt and Swivel Base for 20-inch Color Display |

To order, contact your dealer or HP sales representative.

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## New HP PaintJet Transparency Film

Linette Page

HP has introduced a new HP PaintJet color graphics printer transparency film. Our new film is designed to provide full-page printing, trouble free image centering, and easier alignment.

We accomplished this by adding a one inch "leader" of film and backing sheet to our standard film. This leader fits up under the paper bail to provide an extra inch of printing space. Because the film leader is actually a separate piece, it provides a clear "top-of-form" indicator during loading and then removes easily after printing.

We have also reduced the width of A size film from 8.5 to 8.4 inches to facilitate easier loading and alignment. Now film can be fed into the HP PaintJet without having to adjust the right sprocket wheel.

Available from your dealer or HP DIRECT, specify part number 51630Q for A size or 51630S for A4 size. (Refer to the "How to Order" section in the green pages.)

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## HP150/Touchscreen II PC Discontinuance

Michael Weir

As previously announced in the *HP PC Communicator,* the HP150/Touchscreen II Personal Computer and Terminal were discontinued May 1, 1989. Although you will not be able to purchase this product after May 1989, it will still be supported by HP for 10 years after discontinuance.

In order to support our large installed base of HP Touchscreen PC users, critical subsystems and accessories of the HP Touchscreen PC system will continue to be available for at least six months beyond the HP Touchscreen PC discontinuance, or in the case where they are used on other computer systems, even longer.

Below is a list that shows the discontinuance date of all the HP Touchscreen products and accessories. Please use this information to help plan for the discontinuance. If you need more information about the products listed below, contact your Hewlett-Packard sales representative or your local dealer.

| HP Product | Product Description | Discontinuance Date | Comment |
|---|---|---|---|
| **System Software** | | | |
| 45875A | Microsoft Windows | May, 1990 | |
| 45849-63024 | 150A/150B Firmware Upgrade | May, 1990 | |
| 45849-63031 | Operating System Upgrade | May, 1990 | |
| 45846A | Terminal Upgrade Kit | May, 1989 | |
| **Data Storage** | | | |
| 9123D | Dual 710KB disk drive | May, 1989 | |
| 9153C | Hard disks (various options) | Remain | |
| 9127A | 5.25" disk drive | May, 1990 | Tentative date |
| 9153M | Hard disk upgrade mechanism | Remain | |
| 9144A | 67MB tape drive | Remain | |
| 92192A | 710 KB flexible disks (box of 10) | Remain | |
| 92192N | 710 KB flexible disks (box of 100) | Remain | |
| 92192X | 1.44 MB flexible disks (box of 10) | Remain | |
| 92190A | 360 KB 5.25" flex. disks (box of 10) | Remain | |
| 88140LC | 67 MB tape cartridge (box of 10) | Remain | |
| 88140SC | 16 MB tape cartridge (box of 10) | Remain | |
| **Interfaces and Enhancements** | | | |
| 27208A | HP ThinLan interface | Sep, 1990 | Tentative date |
| 35723A | Touch accessory | Remain | |
| 45890A | 512 KB expanded memory | May, 1990 | |
| 45891A | 256 KB upgrade kit for 45890A | May, 1990 | |
| 45632A | 384 KB memory board | May, 1990 | |
| 45637A | 256 KB language accessory | May, 1989 | |
| 45885A | Numeric coprocessor | May, 1990 | |
| 45640A | Internal modem | May, 1989 | |
| 45641B | IBM 3278 emulation card | May, 1990 | |
| 45641U | Upgrade for 45641B to allow 3174 | May, 1990 | |
| 45643A | I/O accessory card | May, 1990 | |

| HP Product | Product Description | Discontinuance Date | Comment |
|---|---|---|---|
| **'P-HIL Accessories** | | | |
| ₁5911A | HP graphics tablet | Remain | |
| 45914A | HP-HIL accessory board | May, 1989 | |
| 45915A | HP-HIL access with 384 KB | May, 1989 | |
| 46060A | HP mouse | Remain | |
| 46080A | HP-HIL extension module | Remain | |
| 46087A | A-size digitizer tablet | Discontinued | |
| 46088A | B-size digitizer tablet | Discontinued | |
| 92916A | HP-HIL bar code reader | Remain | |
| 92241A | HP-HIL cable | May, 1989 | |
| **Miscellaneous Accessories** | | | |
| 13269BB | Cordura carrying case | May, 1989 | |
| 13269C | Vinyl carrying case | May, 1989 | |
| 92171J | Keyboard park | TBD | |
| 92240B | Swivel base | TBD | |
| ?2250K | Dust cover | May, 1989 | |
| **HP Office Share Networking** | | | |
| 50907A | HP ThinLAN server kit | May, 1990 | |
| D1803A | HP StarLAN 10 user kit | May, 1990 | |
| D1804A | HP StarLAN 10 server kit | May, 1990 | |
| 50908A | HP ThinLAN user link | May, 1990 | |
| 50910A | HP serial network user link | May, 1990 | |
| 50929A | ThinLAN configuration and diagnostics | May, 1990 | |
| 50930A | Serial network configuration and diagnostics | May, 1990 | |
| 50915A | Upgrade to HP ThinLAN server | May, 1990 | |
| 50916A | Upgrade to HP ThinLAN user | May, 1990 | |
| 50913A | HP ThinLAN server software | May, 1990 | |
| 0914A | HP ThinLAN user software | May, 1990 | |

| HP Product | Product Description | Discontinuance Date | Comment |
|---|---|---|---|
| **Cables and Connectors** | | | |
| 92268A | 4m StarLAN cable | Remain | |
| 92268B | 8m StarLAN cable | Remain | |
| 92268C | 16m StarLAN cable | Remain | |
| 92268D | 32m StarLAN cable | Remain | |
| 92227A | 1m ThinLAN cable | Remain | |
| 92227B | 2m ThinLAN cable | Remain | |
| 92227C | 4m ThinLAN cable | Remain | |
| 92227D | 8m ThinLAN cable | Remain | |
| 92227E | 16m ThinLAN cable | Remain | |
| 92227F | 32m ThinLAN cable | Remain | |
| 92227G | 64m ThinLAN cable | Remain | |
| 92227H | 128m ThinLAN cable | Remain | |
| 92227J | PVC jacket | Remain | |
| 92227K | FEP jacket | Remain | |
| 92227L | ThinLAN connector pair | Remain | |
| 92227M | ThinLAN cable tool kit | Remain | |
| 92227N | ThinLAN BNC "T" connector | Remain | |
| 92227P | ThinLAN terminal pair | Remain | |
| 92227Q | ThinLAN loopback connector | Remain | |
| 92227R | ThinLAN BNC "T" connector cover | Remain | |
| 10833A | 1m HP-IB cable | Remain | |
| 10833B | 2m HP-IB cable | Remain | |
| 13242A | Centronics cable | Discontinued | |
| 13242G | 25-pin M 25-pin M cable (.5m) | Remain | |
| 17255D | 25-pin M 25-pin F cable | Remain | |
| 17255M | 25-pin M 25-pin M cable (1.5m) | Remain | |
| 82307A | GPIO cable | Remain | |
| 13242N | Modem cable | Remain | |
| 13242X | Serial cable for HP3000 ADCC | Remain | |
| 13242P | Serial cable for ATP port | Remain | |
| 13242N | Serial cable for ADCC or modem | Remain | |
| 92224F | Female gender converter | Remain | |
| 92224M | Male gender converter | Remain | |
| 92951VM | Videotex cable | May, 1989 | |
| 92951VN | Videotex cable, Dutch | May, 1989 | |

| HP Product | Product Description | Discontinuance Date | Comment |
|---|---|---|---|
| **Documentation** | | | |
| 45624A | MS-DOS User's Guide | May, 1990 | |
| 45625A | Technical Reference Manual | Undetermined | |
| 45848-60001 | Terminal Manual | May, 1999 | |
| 45849-60202 | MS-DOS 3.2 User's Guide | May, 1999 | |
| 45849-60204 | HP150 Programmer's Reference | May, 1999 | |
| 45918A | HP-HIL Technical Reference Manual | Remain | |
| 45919A | HP-HIL Developer's Tools | May,1 989 | |
| 5061-8971 | MS-DOS 3.2 Programmer's Reference | May, 1999 | |
| **Training-Fast Track Manuals** | | | |
| 89915F | Executive Memo Maker Manual | Discontinued | |
| 89916F | Executive Card Manager Manual | Discontinued | |
| 89918F | AdvanceLink Manual | May, 1989 | |
| 68352X | Gallery Collection Manuals | Discontinued | |
| 5958-7685 | Expert Guide for Windows | May, 1999 | |
| **Software Support Services** | | | |
| 50907A + S00 | OfficeShare server subscription | May, 1991 | |
| D1804A + S00 | StarLAN server kit subscription | May, 1991 | |
| 50908A + S00 | OfficeShare user subscription | May, 1991 | |
| 50910A + S00 | Serial network subscription | May, 1991 | |
| D1803A + S00 | StarLAN user link subscription | May, 1991 | |
| 50929A + S00 | ThinLAN user subscription | May, 1991 | |
| 50930A + S00 | Serial network user subscription | May, 1991 | |

| HP Product | Product Description | Discontinuance Date | Comment |
|---|---|---|---|
| **Terminal Emulation/Communications** | | | |
| 45314A | Tel VTX term emulation | May, 1989 | |
| 45412A | VT-100 emulator | Oct, 1989 | |
| 45431A | AdvanceLink | Oct, 1989 | |
| 27534A | AdvanceMail | Nov, 1989 | Tentative date |
| **Database/File Management** | | | |
| 45421A | Executive Card Manager | Oct,1989 | |
| 45563A | R:Base 5000 | May, 1989 | |
| **Development/Utilities** | | | |
| 45445D | BASIC by Microsoft | May, 1989 | |
| 45310A | BASIC Programmer's Library | May, 1989 | |
| 45448A | COBOL by Microsoft | May, 1989 | |
| 45446D | Compiled BASIC by Microsoft | May, 1989 | |
| 92248BA | Cross Reference Utility | May, 1989 | |
| 45449D | FORTRAN by Microsoft | May, 1989 | |
| 45450D | GW BASIC by Microsoft | May, 1989 | |
| 45447D | PASCAL by Microsoft | May, 1989 | |
| 45953C | Macro Assembler | Discontinued | |
| 45443A | Forms Master | May, 1989 | |
| **Application Software** | | | |
| 45566A | Lotus 1-2-3 | Oct, 1989 | |
| 45437A | Gallery Collection | Oct, 1989 | |
| 45311A | ICON Design Systems | May, 1989 | |
| 32584A | AdvancePrint | Oct, 1989 | |
| 35184A | Sideways | May, 1990 | |
| 27505A | HP Word | Nov, 1989 | Tentative date |
| 45418A | Executive MemoMaker | Oct, 1989 | |
| 45474D | Microsoft Word | May, 1989 | |
| 45427D | WordStar | Discontinued | |

| HP Product | Product Description | Discontinuance Date | Comment |
|---|---|---|---|
| **Keyboards** | | | |
| 46021A | Keyboard, US/English | Remain | Used on 9000s |
| 46021AC | Keyboard, French-Canadian | Remain | |
| 46021AD | Keyboard, German | Remain | |
| 46021AE | Keyboard, European-Spanish | Remain | |
| 46021AF | Keyboard, French | Remain | |
| 46021AH | Keyboard, Dutch | Remain | |
| 46021AJ | Keyboard, Katakana | Remain | |
| 46021AL | Keyboard, English-Canadian | Remain | |
| 46021AM | Keyboard, Latin/Spanish | Remain | |
| 46021AN | Keyboard, Norwegian | Remain | |
| 46021AP | Keyboard, Swiss/German | Remain | |
| 46021AQ | Keyboard, Swiss/French | Remain | |
| 46021AS | Keyboard, Swedish | Remain | |
| 46021AT | Keyboard, Hebrew | Remain | |
| 46021AU | Keyboard, United Kingdom | Remain | |
| 46021AV | Keyboard, Arabic/English | Remain | |
| 46021AW | Keyboard, Flemish | Remain | |
| 46021AX | Keyboard, Finnish | Remain | |
| 46021AY | Keyboard, Danish | Remain | |
| 46021AZ | Keyboard, Italian | Remain | |
| 46021W/ZAA | Keyboard, ROC-Chinese | Remain | |
| 46021W/ZAB | Keyboard, Korean | Remain | |
| 46021W/ZAC | Keyboard, Chinese | Remain | |
| 46021W/ZAG | Keyboard, Arabic/French | Remain | |
| 46021W/ZAL | Keyboard, Japan-Kanji | Remain | |

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## HP Portable Vectra CS PC Discontinued

Ron Avignone

Due to technological advances, the HP Portable Vectra CS and many of its accessories were discontinued on May 1, 1989. All of the remaining accessories will be discontinued on July 1, 1989. The Portable Vectra CS will be supported for five years after discontinuance.

HP recommends a migration to the recently introduced HP Vectra LS/12 Laptop PC. [*For articles on the LS/12 Laptop PC, see Issues 31 and 32 of the HP PC Communicator.*]

| **Discontinued Products** | **Description** | **Discontinuance Date** |
|---|---|---|
| D1001A (Model 10)<br>Options ABA, ABB, ABD, ABE, ABF, ABG, ABK, ABN, ABP, ABQ, ABR, ABS, ABU, ABY, ABZ, ACC, ACD, ACE | Portable Vectra CS<br>Dual Flexible Drives | 5/1/89 |
| D1009A (Model 20)<br>Options ABA, ABB, ABD, ABE, ABF, ABG, ABK, ABN, ABP, ABQ, ABR, ABS, ABU, ABY, ABZ, ACC, ACD, ACE | Portable Vectra CS<br>20 MB Hard Drive Version | 5/1/89 |
| D1002A | 1200 Baud Modem | 5/1/89 |
| D1003A | 2400 Baud Modem | 7/1/89 |
| D1004A | Dual Serial Card | 7/1/89 |
| D1004A<br>Opt 001 | Dual Serial Card<br>With 1 MB EMS | 7/1/89 |
| D1004A<br>Opt 002 | Dual Serial Card<br>With 2 MB EMS | 7/1/89 |
| D1006A | Technical Reference Manual | 5/1/89 |
| D1007A | Softcase | 5/1/89 |
| D1008A | 1 MB EMS Kit | 7/1/89 |
| D1001-60009 BT | Replacement Battery Pack | 5/1/89 |
| 5061-4335 | Battery Charger | 5/1/89 |

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HP 150/Touchscreen ..... Index-10
HP Portables ..... Index-20
HP Vectra PC Family ..... Index-22

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**Current Information**


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| | |
|---|---|
| | Depending on where you purchased a software or hardware product, the best source of assistance for that product may be your own organization, your dealer or value-added reseller, the original developer, or Hewlett-Packard. |
| **Is support provided from within your own organization?** | If you work in an organization which has many personal computers, there is often one person who coordinates the purchase, set-up, and training. (For example, each HP division or office has an Office Automation Coordinator, usually part of the Information Systems Department.)<br>Your internal support people have full knowledge of your organization's overall system: your internally-developed programs, your unique operating and networking procedures . . . and your specific configuration.<br>Your experts, in turn, have access to special resources through your dealer or HP. Support services, such as consulting, can be purchased from HP or your dealer to supplement your internal capabilities. |
| **Was this product purchased from a dealer or value-added reseller?** | If you purchased this product from a dealer or value-added reseller (VAR), they have worked with you to define your application and configure your system—perhaps selecting software or hardware not supplied by HP. Here, your dealer or VAR is the best source of assistance—knowing you, your needs, and your configuration well.<br>Authorized dealers and VARs are backed up by special resources within HP . . . and, of course, you have access to HP's full range of support services as a supplement.<br>By buying your hardware, software, accessories, and supplies from an authorized HP dealer or VAR who provides full support, you build up a continuing relationship—providing a local, personal, and uniquely-responsive support program customized for you. |

| | |
|---|---|
| **Was this product provided by an independent vendor?** | If the product was developed by an independent software vendor (ISV) or an independent hardware vendor (IHV), support—because of the specialized knowledge required—comes either directly from the original developer or through the dealer or value-added reseller from whom you purchased it. |
| **Telephone assistance from HP** | You can obtain telephone assistance from the worldwide network of Hewlett-Packard Response Centers for most products distributed by HP. (For certain specialized non-HP-developed products which are distributed by HP, we have arranged for support directly from the original developer —as indicated in the product data sheet and documentation.)<br><br>You can obtain the telephone number of the closest Response Center from your local HP sales and service office.<br><br>While specifics vary somewhat from country to country, here's how the U.S./Canada program works.<br><br>■ The toll-free U.S./Canada HP HelpLine is open Monday through Friday from 7 a.m. to 9 p.m. Eastern Standard Time.<br><br>■ In the U.S. and Canada, calls are paid for by one of three means:<br><br>—By identifying yourself under a specific support contract. To order, refer to the article "HP PC Software Support" later in this issue.<br><br>—By quoting a unique "certificate number" from a Call Certificate. Certificate packs can be ordered as product number HP 35159A from HP DIRECT.<br><br>—By providing a VISA, MasterCard, or American Express charge authorization.<br><br>■ When you call, a coordinator arranges for the appropriate HP person to call you within two hours. Using a full set of software and documentation—together with computer knowledge, problem-solving skills, and access to others via HP's worldwide telecommunications network—we work with you to answer your question. |

| | |
|---|---|
| **Is the answer available through CompuServe?** | Many of the answers to your questions about HP personal computers are available through the CompuServe Information Service—the largest electronic information service in the world.<br><br>Through CompuServe you can use the Hewlett-Packard PC Forum, which is maintained jointly by HP and HP users. HP maintains libraries on the Forum, containing questions and answers, application notes, and supported patches. The user community offers programs, utilities, and other information.<br><br>The Forum also provides an easy way for you to communicate with other users. By leaving a message, you can exchange information to help you resolve problems or make decisions.<br><br>To access the HP PC Forum, you must have an account with CompuServe, a modem, and communication software such as AdvanceLink. For information about the CompuServe Information Service and how to subscribe, you can talk to your HP Dealer, or call CompuServe at 1-800-848-8199 or 614-457-0802 in Ohio, U.S.A. Or you can write to CompuServe Inc., Telephone Sales, P.O. Box 20212, Columbus, Ohio 43220. |
| **Training or consulting** | Your need for support may be most efficiently and economically met by training or consulting:<br><br>■ Training is available from your dealer, your VAR, or HP to supplement the documentation that accompanies your product. Courses can help users rapidly build confidence and gain new skills away from the distractions of their job. These courses can be taught at your facility using your own systems. Training to suit your specific needs can be designed and provided.<br><br>■ Consulting service—available from your dealer, your VAR, or HP—provides personalized assistance in system operation, recommendations for improved performance, or suggestions on application design. |

□

## Users Group: Interex

JoLynn Werner

**Get in Touch**

To get in touch with Vectra PC, Touchscreen/150, HP 12x, and Portable owners in your area—and worldwide—join Interex, the International Association of Hewlett-Packard Computer Users. Interex is an independent group of HP computer users, with chapters and regional groups in 60 countries. If you join Interex, you will receive, at no cost, an assortment of *HP PC Communicator* back issues which pertain to your computer model. (There is a limited supply for some computer models.)

**Start a Local Chapter**

Local Interex Personal Computer chapters are now forming. For details on joining or starting a group in your area, contact Interex headquarters and ask for the pamphlet "Starting a Regional User Group."

**Member Services**

**Personal Computer Service** includes a subscription to *INTERACT* Magazine, a subscription to the *Interrupt* newsletter (Portable Users will receive *The Portable Paper*, and *INTERACT*), an annual diskette from the Interex Contributed Software Library, and the option to purchase other diskettes at only $10.00 each. Ask for your free listing of Series 100 or Vectra programs.

**Personal Computer Service:** . . . . . $80

**How to Join**

To join, fill out the form on the next page.

For more information, contact:

Interex Member Services Department
680 Almanor Ave.
Sunnyvale, CA 94086
U.S.A.
Telephone 408/738-4848
Telex #4971527
FAX (408) 736-2156

# Interex

*The International Association of Hewlett-Packard Computer Users*

## Application for Personal Computer Services

**Enclosed is my full payment for:**

Personal Computer Services. . . . . $80

**Payment Method:**

☐ Check Enclosed  Check Number _____ (if a company check)

Mastercard # _____

☐ Bill Visa # _____ Expires _____

☐ Bill MasterCard # _____

Interbank # _____ Expires _____

**HP User Information:**

Name _____

(Title) _____

(Company) _____

Address _____

City _____ State _____ ZIP _____

Country _____

Telephone _____

(over)

| Computer | Disk Format | |
|---|---|---|
| ☐ The Portable (HP 110) | ☐ 3½-inch | |
| ☐ Portable Plus | ☐ 3½-inch | |
| ☐ HP 120 or HP 125 | ☐ 3½-inch | ☐ 5¼-inch |
| ☐ HP Touchscreen/150 | ☐ 3½-inch single-sided | ☐ 3½-inch double-sided |
| ☐ HP Vectra | | ☐ 5¼-inch |

Please send my free *Communicator* back issues ☐

Are you currently receiving Interex services for HP 9000, HP 1000, or HP 3000 computers?

☐ No ☐ Yes: ID # _____

Please send more information about Interex's other activities:

___ HP 1000 ___ HP 3000 ___ HP 9000

I understand that payment will not be refunded after the contributed software library disk has been sent from Interex.

Signature _____ Date _____

**Send this page with your full payment to:**

Interex
Department #1530
P.O. Box 61000
San Francisco, CA 94161
U.S.A.

Ref. 11

The HP Vectra Personal Computers are a family of high-performance PCs designed to provide hardware and software compatibility with industry standards. Members of the Vectra PC family include the following:

**HP Vectra CS**

**The HP Vectra CS PC,** a 7.16 MHz 8086-compatible, is the entry-level member of the Vectra PC family that delivers exceptional value for basic office computing needs.

Each of the six available models includes a 7.16 MHz processor compatible with the Intel 8086, 640 Kbytes of RAM, both a serial and parallel I/O interface, the HP Terminal Program, the HP Vectra Disk Cache Program, the Enhanced Vectra PC keyboard, and user documentation. Some models include a VGA graphics card and a hard disk.

**HP Vectra ES**

**The HP Vectra ES PC,** an 8 MHz Intel 80286 IBM PC/AT compatible, offers mainstream business users growth to the next generation operating systems (OS/2) at an economical price.

Each of the five available models includes an 8 MHz Intel 80286 processor, 640 KB of RAM, a flexible and hard disk controller, both a serial and parallel I/O interface, an HP-HIL port, the HP Terminal Program, the HP Vectra Disk Cache Program, the Enhanced Vectra PC keyboard, and user documentation. Some models include VGA graphics card and hard disk.

**HP Vectra ES/12**

**The HP Vectra ES/12 PC,** based on the 12 MHz Intel 80286 processor, provides superior performance and IBM PC/AT compatibility for the demanding business user.

Each of the eight available models includes a 12 MHz Intel 80286 processor, 640 KB of RAM, a flexible and hard disk controller, both a serial and parallel I/O interface, an HP-HIL port, the HP Terminal Program, the HP Vectra Disk Cache Program, the Enhanced Vectra PC keyboard, and user documentation. Some models include a VGA graphics card and a hard disk.

**HP Vectra LS/12 Laptop**

The **HP Vectra LS/12 Laptop PC,** a 12MHz Intel 80L286 portable, offers industry standard compatibility, and is ideal for the professional who demands both performance and flexibility.

The HP Vectra LS/12 Laptop PC is available in a 20 MB and 40 MB hard disk configuration. Both of the models include a 12 MHz Intel 80L286 (low power NMOS) microprocessor, a 16 bit memory bus, 1 MB RAM memory (presently expandable to 2 MB RAM), one serial and one parallel port, connectors for an external flexible disk/tape drive, numeric keypad and RGB monitor, internal slots for a modem, memory expansion, 80C287 numeric coprocessor, and a full-function 79-key keyboard.

**HP Vectra QS**

**The HP Vectra QS/16 and the new QS/20 PCs** together are HP's most powerful desktop PC's for the office power user and for entry level CAD applications.

The HP Vectra QS/16 and QS/20 configurations have a 16 MHz (QS/16) and 20 MHz (QS/20) 80386 processor, 1 MB RAM, a combination flexible disk controller and hard disk controller with serial and parallel I/O interfaces, an HP-HIL port, the HP Terminal Program, HP Vectra Disk Cache Program, the Enhanced Vectra PC Keyboard, and user documentation. Some models include a VGA graphics card and a hard disk.

**HP Vectra RS**

The new **HP Vectra RS/20C and RS/25C PCs** offer all the benefits of the expandable, floor-mount RS/20 PC, but add a memory cache to gain even greater performance.

The HP Vectra RS/20C and RS/25C PC configurations have a 20 MHz (RS/20C) or 25 MHz (RS/25C) 80386 microprocessor, a 32 KB memory cache subsystem, a 1.2 MB, 5.25-inch flexible disk drive, a hard disk (ESDI) and a flexible disk controller, and one serial and one parallel port. They also include a system manual, software utilities, dual locks, and the 101-key PC/AT-type DIN keyboard.

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## U.S. Touchscreen/150 Software Available from HP

Joni Kapeckas, Ray Rafiti, Marilyn Ruel, Michael Weir

To determine which U.S. products are recommended for use with localized computers, check with your dealer or HP sales office.

| Name | HP Product Number | Version | Special Requirements |
|---|---|---|---|
| **COMMUNICATIONS** | | | |
| AdvanceLink* | 45431A | A.04.04 | |
| AdvanceMail | 27534A | A.01.00 | Requires HP DeskManager B.00.00 or later on the HP 3000 |
| IBM 3278 Term. Emul. Acces.* | 45641B | | |
| VT100 Terminal Emulator | 45412A | | |
| Office Talk (Phone Voice Mgmt.) | 24520A | A.01.02 | 512K |
| **NETWORKING SOFTWARE** | | | |
| **Services** | | | |
| Network Services—User Services | 50923F† | | |
| Option OA9 Network Services—User Services—License for 10 Users | 50923F | | |
| Option 0AA Network Services—User Services—License for 50 Users | 50923F | | |
| Net IPC/RPM Development Package | 50924F | | |
| **Links and Services** | | | |
| HP ThinLAN Server Kit for HP Touchscreen PCs | 50907A | | Dedicated Network Server, 512K Memory Required |
| HP StarLAN 10 User Link Kit for HP Touchscreen PCs | D1803A | | |
| HP StarLAN 10 Server Kit for HP Touchscreen PCs | D1804A | | |
| HP ThinLAN User Link Kit for HP Touchscreen PCs | 50908A | | 512K Memory Required |
| HP SERIAL Network User Link Software for HP Touchscreen PCs | 50910A | | |

*Uses HP Touch

| Name | HP Product Number | Version | Special Requirements |
|---|---|---|---|
| **Configuration and Diagnostics** | | | |
| LAN PC User Configuration and Diagnostics Package for Touchscreen PCs | 50929A | | |
| Option OA9 10 User License | 50929A | | |
| Option OAA 50 User License | 50929A | | |
| SERIAL Network PC User Config and Diagnostics Package for Touchscreen PC | 50930A | | |
| Option OA9 10 User License | 50930A | | |
| Option OAA 50 User License | 50930A | | |
| **Upgrades for Earlier Versions of OfficeShare** | | | |
| Upgrade for OfficeShare Server Software | 50915A | | Includes HP ThinLAN Server and PC Config and Diagnostics Software and License for PCs; Must Return OfficeShare Master Disks |
| Upgrade for OfficeShare User Software | 50916A | | Must Return OfficeShare Master Disks |
| **Upgrade for HP 3Com Networks** | | | |
| HP ThinLAN Server Software for HP Touchscreen PCs | 50913A | | Software, 512K Memory Required |
| HP ThinLAN User Software for HP Touchscreen PCs | 50914A | | Software, 512K Memory Required |
| **ENVIRONMENT MANAGER** | | | |
| Microsoft Windows | 45875A | 1.03 | DOS 3.2, 384K memory (512K is recommended), dual flexible disk system (one 710K byte disk is needed) or single flexible disk (260K or 710K) with hard disk |

| Name | HP Product Number | Version | Special Requirements |
|---|---|---|---|
| **DATA BASE MANAGEMENT** | | | |
| Executive Card Manager* | 45421A | A.02.02 | |
| **GRAPHICS** | | | |
| The Graphics Gallery Collection* | 45437A | | 384K |
| HP Graphics Curator/ 3000 (36926R gives you "right to copy") | 36926A or 36926R | For use with HP 3000.<br>Curator RTU 36926A<br>S/3X #310<br>S/5X #320<br>S/7X #330<br>Curator RTC 36926R<br>S/3X #310<br>S/5X #320<br>S/7X #330 | |
| **SHARED RESOURCES** | | | |
| AdvancePrint | 32584A | | For use with HP 3000 |
| **SPREADSHEETS** | | | |
| Lotus 1-2-3* | 45566A | 2.01 | 384K |
| **UTILITIES** | | | |
| HP PLCPak | 33406A | | |
| **WORD PROCESSING** | | | |
| HPWORD/150 U.S. English* | 27505A | A.02.01 | 512K |
| Executive MemoMaker* | 45418A | C.03.00 | 384K for text<br>512K for text and graphics |

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*Uses HP Touch

To determine which U.S. products are recommended for use with localized computers, check with your dealer or HP office.

A worldwide corporate Site Licensing Program offering customers up to 75 percent savings is now available for large quantity purchases of specified software. Below these products are marked with a "†" sign. Contact your HP sales office for specifics.

★Software available in 3.5-inch media for the HP Vectra Computers (incuding the LS/12 Laptop PC and the HP Portable Vectra CS) and IBM and compatibles. Order Option 003 unless stated otherwise.

| Name | HP Product Number | Version | Special Requirements |
|---|---|---|---|
| **COMMUNICATIONS** | | | |
| AdvanceLink† | ★68333F | B.02.00 | |
| Opt. 100 AdvancePrint (5.25-inch media) | | | |
| Opt. 103 AdvancePrint (3.5-inch media) | | | |
| HP IRMA IBM3278/79 Term Emul | 50920A | | |
| HPMessage† | 36569E | | Requires HPDesk Message A.03.01 on the HP 3000 |
| AdvanceMail† | ★27535F | B.00.00 | Requires HPDesk Manager on the HP 3000 |
| **NETWORKING SOFTWARE★** | | | |
| *Note: All networking software except HP Product D1805A comes with both 5.25-inch and 3.5-inch disks.* | | | |
| **Services** | | | |
| Network Services/ User Services | 50923F | | |
| Option OA9 Network Services/ User Services License for 10 Users | 50923F | | |
| Option OAA Network Services/ User Services License for 50 Users | 50923F | | |

†Corporate Site Licensing also available

| Name | HP Product Number | Version | Special Requirements |
|---|---|---|---|
| Net IPC/RPM Development Package | 50924F | | |
| PC Server Software for HP Vectra PCs | 50925F | | |
| **Links** | | | |
| StarLAN Vectra PC Link | 50926F | | |
| ThinLAN Vectra PC Link | 50927F | | |
| SERIAL Network Vectra PC Link | 50928F | | |
| StarLAN 10 Vectra PC Link | D1802A | | |
| LAN Micro Channel PC Link Software | D1805A | | |
| HP StarLAN 10 PC cards | D1808A | | |
| Option 100 PC Link II (for AT machines) | D1808A | | |
| Option 200 Micro Channel Link | D1808A | | |
| **Configuration and Diagnostics** | | | |
| LAN PC User Configuration and Diagnostics for Vectra and IBM PCs | 50929F | | |
| Option OA9 10 User License | 50929F | | |
| Option OAA 50 User License | 50929F | | |
| SERIAL Network PC User Configuration and Diagnostics Package for Vectra and IBM PCs | 50930F | | |
| Option OA9 10 User License | 50930F | | |
| Option OAA 50 User License | 50930F | | |
| **Upgrades for HP 3Com Networks** | | | |
| HP ThinLAN Server Software for HP Vectra PCs | 50913F | | |
| HP ThinLAN User Software for HP Vectra PCs | 50914F | | |

| Name | HP Product Number | Version | Special Requirements |
|---|---|---|---|
| **ENVIRONMENT MANAGER** | | | |
| Microsoft Windows/286 | | | |
| 5¼-inch media | D1318A | #ABA | |
| 3½-inch media | D1318B | #ABA | |
| Microsoft Windows/386 includes 5¼-inch and 3½-inch media) | D1651A | #ABA | |
| **DATA BASE MANAGEMENT** | | | |
| Executive Card Manager (ECM)*† | ★68331F | A.01.08 | |
| **GRAPHICS** | | | |
| Drawing Gallery (includes 5.25" and 3.5" media) | ★D1709A | C.00.00 | 384K memory and mouse required |
| Charting Gallery† (includes 5.25" and 3.5" media) | ★D1710A | C.00.00 | |
| The Graphics Gallery Collection† (includes 5.25" and 3.5" media) | ★D1711A | C.00.00 | 384K memory and mouse required |
| Office Activities Portfolio | ★68324F | A.01.00 | |
| Business Mgmt. Portfolio | ★68326F | A.01.01 | |
| Chemical/ PetroChemical Portfolio | ★68325F | A.01.00 | |
| HPDraw Figures Portfolio for Drawing Gallery | ★68327F | A.01.00 | |
| HP Graphics Curator/3000 (36926R gives you "right to copy") | 36926A or 36926R | | For use with HP 3000.<br>Curator RTU 36926A<br>S/3X #310<br>S/5X #320<br>S/7X #330<br>Curator RTC 36926R<br>S/3X #310<br>S/5X #320<br>S/7X #330 |

*Uses HP Touch
†Corporate Site Licensing also available

| Name | HP Product Number | Version | Special Requirements |
|---|---|---|---|
| **SHARED RESOURCES** | | | |
| AdvancePrint | ★32583F | | For use with HP 3000 |
| **UTILITIES** | | | |
| FontLoad | 33407B | Version 1.0 | |
| LaserControl 100*** | 35190J | Rev. 3 | |
| Laserplotter | 35188A | | |
| **WORD PROCESSING** | | | |
| AdvanceWrite Plus† (includes 5.25" and 3.5" media) | D1712A | F.03.00 | |
| Executive MemoMaker*† | ★68330F | A.03.00 | |
| **PRINTER UTILITIES** | | | |
| iPrint | 35188D | | |
| Jetplotter | 35190P | | |
| **OFFICE SOFTWARE PACKS** | | | |
| HP Vectra PC Office Professional Pack | ★68300F | | |
| HP Vectra PC Office Assistant Pack | ★68301F | | |
| HP Vectra PC Office Entry Pack | ★68306F | | |
| **OPERATING SYSTEM** | | | |
| Microsoft MS-DOS 3.3** | | | |
| 5¼-inch media | 45951D | | |
| 3½-inch media | 45951E | | |

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*Uses HP Touch
**MS-DOS products are not supported on non-HP personal computers
***Manufacturer Supported
†Corporate Site Licensing also available

## HP Portable/Portable PLUS Software Available from HP*

Ron Avignone

To determine which U.S. products are recommended for use with localized computers, check with your dealer or HP office.

| Name | HP Product Number | Portable | Portable Plus |
|---|---|---|---|
| COMMUNICATIONS: | | | |
| REFLECTION 1 (ROM) | 82863K Opt. 400 | | ● |
| YTerm | 82867K Opt. 630 | | ● |
| AdvanceMail (ROM) | 82870K Opt. 400 | | ● |
| DATA BASE MANAGEMENT: | | | |
| Executive Card Manager (ROM) | 45555K Opt. 400 | | ● |
| PROGRAMMING LANGUAGES AND DEVELOPMENT TOOLS: | | | |
| BASIC by Microsoft | 45445D | ● | |
| BASIC by Microsoft (ROM) | 82862K Opt. 400 | | ● |
| Compiled BASIC by Microsoft | 45446D | ● | ● |
| FORTRAN by Microsoft | 45449D | ● | ● |
| GW-BASIC by Microsoft | 45450D | ● | ● |
| Pascal by Microsoft | 45447D | ● | ● |
| Programmer's Tools | 45419C | ● | ● |
| Technical Reference Manual | 45559K | | ● |
| WORD PROCESSING: | | | |
| Microsoft WORD | 45474D | ● | |
| Microsoft WORD (ROM) | 45549K Opt. 400 | | ● |
| MultiMate (ROM) | 45554K Opt. 400 | | ● |

□

*For HP Portable Vectra CS and HP Vectra LS/12 Laptop PC software see "U.S. Vectra Family PC Software" elsewhere in the green pages.

## Asian HP Vectra Software Available from HP

Jenny Chiang

**For Asian countries only:**

| Name | HP Product Number | Special Requirements |
|---|---|---|
| COMMUNICATIONS: | | |
| Japanese AdvanceLink 2392 | 68333WJ | |
| Traditional Chinese AdvanceLink 2392 | 68333W Opt. ZAA | Minimum 384K Memory |
| Korean AdvanceLink 2392 | 68333W Opt. ZAB | Minimum 384K Memory |
| SPREADSHEETS: | | |
| Japanese Executive Spreadsheet | 68332WJ | |
| Traditional Chinese Executive Spreadsheet | 68332W Opt. ZAA | Minimum 384K Memory |
| Korean Executive Spreadsheet | 68332W Opt. ZAB | |
| WORD PROCESSING: | | |
| Traditional Chinese Executive MemoMaker | 68330W Opt. ZAA | Minimum 384K Memory |
| Korean Executive MemoMaker | 68330W Opt. ZAB | |
| GRAPHICS: | | |
| Asian Drawing Gallery | 68351W | |
| Asian Drawing Gallery English Extension | 68351W Opt. ZAN | |
| Traditional Chinese Drawing Gallery Fonts (Taiwan version) | 79308A Opt. ZAA | |
| Asian Drawing Gallery Korean Extension | 68351W Opt. ZAB | |
| Korean Drawing Gallery Fonts | 79308A Opt. ZAB | |
| Asian Graphics Gallery (Taiwan version) | 68352W Opt. ZAA | |

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## Localized HP 150/Touchscreen Software Available from HP

Sue Nennemann, Nigel Upton

Here is a summary of the software that has been localized for the HP 150/Touchscreen. To order contact your local dealer (for some products) or sales representative. Some products may not be available or may not be supported in all countries.

| Name | HP Product Number | Country | Revision |
|---|---|---|---|
| AdvanceLink | 45431AD | Germany | A.04.00 |
| AdvanceMail/150 | 27534AD | Germany | A.01.02 |
| AdvanceMail/150 | 27534AE | Spain | A.01.02 |
| AdvanceMail/150 | 27534AF | France | A.01.02 |
| AdvanceMail/150 | 27534AH | Netherlands | A.01.02 |
| AdvanceMail/150 | 27534AN | Norway | A.01.02 |
| AdvanceMail/150 | 27534AX | Finland | A.01.02 |
| AdvanceMail/150 | 27534AY | Denmark | A.01.02 |
| AdvanceMail/150 | 27534AZ | Italy | A.01.02 |
| Charting Gallery | 45513AD | Germany | B.02.00 |
| Charting Gallery | 45513AF | France | B.02.00 |
| Exec.Card Manager | 45421AD | Germany | A.02.01 |
| Exec.Card Manager | 45421AZ | Italy | A.02.01 |
| Executive MemoMaker | 45418AD | Germany | C.02.00 |
| Executive MemoMaker | 45418AF | France | C.02.00 |
| Executive MemoMaker | 45418AX | Finland | C.02.00 |
| Executive MemoMaker | 45418AZ | Italy | C.02.00 |
| Gallery Collection | 45437AD | Germany | B.02.00 |
| Gallery Collection | 45437AF | France | B.02.00 |
| Gallery Collection | 45437AX | Finland | B.02.00 |
| Gallery Collection | 45437AZ | Italy | B.02.00 |
| Gallery Pic.Lib. VII | 45433AF | France | A.01.00 |
| HP Access | 36898AD | Germany | A.01.01 |
| HPMessage | 36568DA | Germany | DA.00.01 |

| Name | HP Product Number | Country | Revision |
|---|---|---|---|
| HPWord | 27505AB | U.K. | A.03.00 |
| HPWord | 27505AC | Canada | A.02.01 |
| HPWord | 27505AD | Germany | A.02.01 |
| HPWord | 27505AF | France | A.02.01 |
| HPWord | 27505AH | Netherlands | A.02.01 |
| HPWord | 27505AN | Norway | A.02.01 |
| HPWord | 27505AX | Finland | A.02.01 |
| HPWord | 27505AY | Denmark | A.02.01 |
| HPWord Doc Pack | 27505TB | U.K. | A.02.00 |
| MemoMaker | 45420AV | Arabic | A.01.01 |
| MemoMaker | 45420AV #ZAG | Arabic/French | A.01.02 |
| MemoMaker | 45420AT | Hebrew | A.01.01 |
| Info Access 10 User License | 32596LY | Denmark | |
| VisiCalc II | 45405AF | France | B.01.02 |

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## Localized HP Vectra Software Available from HP

Sue Nennemann, Miles Mikasa, Nigel Upton

Below is a list of the HP Vectra software that has been localized. To order contact your dealer (for some products) or sales representative. Not all products are available or are supported in all countries.

| Name | HP Product Number | Country | Revision |
|---|---|---|---|
| AdvanceMail | ★27535FY | Denmark | A.01.02 |
| AdvanceMail | ★27535FX | Finland | A.01.02 |
| AdvanceMail | ★27535FF | France | A.01.02 |
| AdvanceMail | ★27535FD | Germany | A.01.02 |
| AdvanceMail | ★27535FZ | Italy | A.01.02 |
| AdvanceMail | ★27535FH | Netherlands | A.01.02 |
| AdvanceMail | ★27535FN | Norway | A.01.02 |
| AdvanceMail | ★27535FE | Spain | A.01.02 |
| AdvanceMail | ★27535FS | Sweden | A.01.02 |
| AdvanceMail | ★27535FZ | Italy | A.01.02 |
| AdvanceMail Site Lic. | 27535LF | France | |
| AdvanceMail Site Lic. | 27535LD | Germany | |
| AdvanceWrite III | 27508FY | Denmark | F.01.03 |
| AdvanceWrite III | 27508FX | Finland | F.01.03 |
| AdvanceWrite III | 27508FZ | Italy | F.01.02 |
| AdvanceWrite III | 27508FH | Netherlands | F.01.03 |
| AdvanceWrite III | 27508FN | Norway | F.01.03 |
| AdvanceWrite III | 27508FE | Spain | F.01.03 |
| AdvanceWrite III | 27508FS | Sweden | F.01.02 |
| AdvanceWrite Plus Site License | 27546LF/ZF | France | F.02.01 |
| AdvanceWrite Plus Site License | 27546LD/ZD | Germany | F.02.01 |
| Charting Gallery | 68350FF | France | B.03.00 |
| Charting Gallery | 68350FD | Germany | B.03.00 |
| Drawing Gallery | 68351FF | France | B.03.03 |
| Drawing Gallery | 68351FD | Germany | B.03.00 |
| Executive CardManager | ★68331FF | France | A.01.06 |
| Executive CardManager | ★68331FD | Germany | A.01.06 |
| Executive CardManager | ★68331FE | Spain | A.01.06 |
| Executive CardManager Site License | 68331L* | All languages | |
| Executive MemoMaker | ★68330FB | Eur. English | A.03.01 |
| Executive MemoMaker | ★68330FX | Finland | A.03.01 |
| Executive MemoMaker | ★68330FF | France | A.03.01 |
| Executive MemoMaker | ★68330FD | Germany | A.03.01 |
| Executive MemoMaker Site Lic. | 68330L*/Z* | All languages | |

★Software available in 3½-inch media. Order Option 003.

| Name | HP Product Number | Country | Revision |
|---|---|---|---|
| Gallery Collection | ★68352FY | Denmark | B.03.00 |
| Gallery Collection | ★68352FX | Finland | B.03.00 |
| Gallery Collection | ★68352FF | France | B.03.00 |
| Gallery Collection | ★68352FD | Germany | B.03.00 |
| Gallery Collection | ★68352FZ | Italy | B.03.00 |
| Gallery Collection | ★68352FH | Netherlands | B.03.00 |
| Gallery Collection | ★68352FN | Norway | B.03.00 |
| Gallery Collection | ★68352FE | Spain | B.03.00 |
| Gallery Collection | ★68352FS | Sweden | B.03.00 |
| Gallery Site Lic. | 68352L*/Z* | All languages | |
| HPWord Site Lic. | 27536LF | Eur. English | |
| HPWord Vectra | 27536FC | Canada | A.03.00 |
| HPWord Vectra | 27536FY | Denmark | A.03.00 |
| HPWord Vectra | 27536FB | Eur. English | A.03.00 |
| HPWord Vectra | 27536FX | Finland | A.03.00 |
| HPWord Vectra | 27536FF | France | A.03.00 |
| HPWord Vectra | 27536FD | Germany | A.03.00 |
| HPWord Vectra | 27536FH | Netherlands | A.03.00 |
| HPWord Vectra | 27536FN | Norway | A.03.00 |
| HP Access Vectra | 36898FD | Germany | F.01.01 |
| Info Access 10 User License | 32596LY | Denmark | |
| MS-DOS | †45951DC | Canada-French | 3.3 |
| MS-DOS | †45951DD | Germany | 3.3 |
| MS-DOS | †45951DE | Spain | 3.3 |
| MS-DOS | †45951DF | France | 3.3 |
| MS-DOS | †45951DH | Netherlands | 3.3 |
| MS-DOS | †45951DM | Latin America | 3.3 |
| MS-DOS | †45951DN | Norway | 3.3 |
| MS-DOS | †45951DP | Switzerland-German | 3.3 |
| MS-DOS | †45951DQ | Switzerland-French | 3.3 |
| MS-DOS | †45951DS | Sweden | 3.3 |
| MS-DOS | †45951DU | United Kingdom | 3.3 |
| MS-DOS | †45951DW | Belgium | 3.3 |
| MS-DOS | †45951DX | Finland | 3.3 |
| MS-DOS | †45951DY | Denmark | 3.3 |
| MS-DOS | †45951DZ | Italy | 3.3 |
| MS-DOS | †#45951EC | Canada-French | 3.3 |

★Software available in 3½-inch media. Order Option 003.
†MS-DOS products are not supported on non-HP personal computers.
#Software available in 3½-inch media. Do not specify Option 003.

| Name | HP Product Number | Country | Revision |
|---|---|---|---|
| MS-DOS | †#45951ED | Germany | 3.3 |
| MS-DOS | †#45951EE | Spain | 3.3 |
| MS-DOS | †#45951EF | France | 3.3 |
| MS-DOS | †#45951EH | Netherlands | 3.3 |
| MS-DOS | †#45951EM | Latin America | 3.3 |
| MS-DOS | †#45951EN | Norway | 3.3 |
| MS-DOS | †#45951EP | Switzerland-German | 3.3 |
| MS-DOS | †#45951EQ | Switzerland-French | 3.3 |
| MS-DOS | †#45951ES | Sweden | 3.3 |
| MS-DOS | †#45951EU | United Kingdom | 3.3 |
| MS-DOS | †#45951EW | Belgium | 3.3 |
| MS-DOS | †#45951EX | Finland | 3.3 |
| MS-DOS | †#45951EY | Denmark | 3.3 |
| MS-DOS | †#45951EZ | Italy | 3.3 |
| Vectra Office Assist. Bundle | 68301FB | Eur. English | |
| Vectra Office Prof. Bundle | 68300FB | Eur. English | |
| Vectra Office Prof. Bundle | 68300FF | France | |
| Vectra Office Prof. Bundle | 68300FD | Germany | |
| Vectra Office Prof. Bundle | 68300FH | Netherlands | |
| Vectra Office Prof. Bundle | 68300FE | Spain | |

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†MS-DOS products are not supported on non-HP personal computers.
#Software available in 3½-inch media. Do not specify Option 003.

## Localized Software Exchange Kits—Upgrades

Sue Nennemann, Nigel Upton

When major features are added to a software product, you can order a Software Exchange Kit at a low cost—"trading in" your older version for one with the latest capabilities and documentation.

This section lists the localized software exchange kits available for the Touchscreen/150 and the HP Vectra PC. These kits contain the latest software and any manual updates issued since the original release. **Exchange kits are provided at a nominal charge.** You return your original master disk as proof of purchase and continue operating as usual with your work copy of the software.

To order, call HP DIRECT. For the appropriate phone number for your country, see "How to Order" in the green pages of this issue.

For each kit ordered, along with your payment submit one corresponding original master disk. This is the disk with the HP software product number and description printed on the label. **Be sure to make working copies before sending your master disk.**

| Product | Country | Version | Order HP Part # |
|---|---|---|---|
| **Touchscreen/150 Upgrade Kits** | | | |
| HPWord/PC | Denmark | A.02.01 | 27505-60015 |
| HPWord/PC | Finland | A.02.01 | 27505-60013 |
| HPWord/PC | France | A.02.01 | 27505-60010 |
| HPWord/PC | Germany | A.02.01 | 27505-60012 |
| HPWord/PC | Netherlands | A.02.01 | 27505-60014 |
| HPWord/PC | Norway | A.02.01 | 27505-60011 |
| **HP Vectra PC Upgrade Kits** | | | |
| AdvanceWrite Plus | Eur. English | | 27546-60003 |
| AdvanceWrite Plus | French | | 27546-60006 |
| AdvanceWrite Plus | German | | 27546-60007 |
| Executive MemoMaker | Danish | | 68330-60016 |
| Executive MemoMaker | Europe | A.03.01 | 68330-60008 |
| Executive MemoMaker | Finland | A.03.01 | 68330-60015 |
| Executive MemoMaker | France | A.03.01 | 68330-60011 |
| Executive MemoMaker | Germany | A.03.01 | 68330-60009 |
| Executive MemoMaker | Italy | A.03.01 | 68330-60017 |
| Executive MemoMaker | Netherlands | A.03.01 | 68330-60012 |
| Executive MemoMaker | Norway | A.03.01 | 68330-60013 |
| Executive MemoMaker | Spain | A.03.01 | 68330-60010 |
| Executive MemoMaker | Swedish | | 68330-60014 |

| Product | Country | Version | Order HP Part # |
|---|---|---|---|
| Gallery Collection | Denmark | B.03.00 | 68352-60012 |
| Gallery Collection | Eur. English | | 68352-60001 |
| Gallery Collection | Finland | B.03.00 | 68352-60011 |
| Gallery Collection | France | B.03.00 | 68352-60007 |
| Gallery Collection | Germany | B.03.00 | 68352-60005 |
| Gallery Collection | Italy | B.03.00 | 68352-60013 |
| Gallery Collection | Netherlands | B.03.00 | 68352-60008 |
| Gallery Collection | Spain | B.03.00 | 68352-60006 |
| Gallery Collection | Sweden | B.03.00 | 68352-60010 |
| HPWord/PC | Denmark | A.02.01 | 27536-60007 |
| HPWord/PC | Finland | A.02.01 | 27536-60005 |
| HPWord/PC | France | A.02.01 | 27536-60002 |
| HPWord/PC | Germany | A.02.01 | 27536-60004 |
| HPWord/PC | Netherlands | A.02.01 | 27536-60006 |
| HPWord/PC | Norway | A.02.01 | 27536-60003 |

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**Replacement Media for Discontinued Software**

We are committed to sustain support for Hewlett-Packard products well after technology advances and market demand cause us to discontinue offering a product for sale.

It is HP corporate policy to ensure availability of parts and full support services for your computer for at least five years beyond discontinuance. Specifically, this means:

- Replacement Media Exchange Kits available for five years from date of last HP shipment for each product in the table below.

  See the Software Exchange Kits article in this issue for information on the Kits.
- Availability of telephone assistance through Hewlett-Packard Help Line Response Centers.
- Continuing coverage in this magazine—the *HP PC Communicator.*

| Product Name | Touchscreen/150: HP Product # | Superseded by: |
|---|---|---|
| ACCOUNTING: | | |
| BPI General Accounting | 45455A | None |
| BPI Accounts Receivable | 45456A | None |
| BPI Accounts Payable | 45457A | None |
| BPI Inventory Control | 45460A | None |
| BPI Job Cost | 45461A | None |
| BPI Payroll | 45458A | None |
| BPI Personal Accounting | 45459A | None |
| COMMUNICATIONS: | | |
| Dow Jones Spreadsheet | 45511D | None |
| PFS:File and Report | 45488A | None |
| Transend COMplete | 45414A | Available from Transend Corp. |
| DATABASES: | | |
| Condor 1 | 45415A | Available from Condor Corp. |
| Condor 1 to 3 Upgrade | 45417A | Available from Condor Corp. |
| Condor 3 | 45416A | Available from Condor Corp. |
| dBASE II/150 | 45468A | dBASE II—45468D |
| DSN/Link—U.S. English | 45425A | AdvanceLink/150—45431A |
| ECM Templates | 45441D | Now included with Executive Card Manager |

**Touchscreen/150:**

| Product Name | HP Product # | Superseded by: |
|---|---|---|
| Personal Card File/150 | 45422A | Executive Card Manager—45421A |
| R:Base 4000 | 45545A | None |
| R:Base 5000 | 45563A | None |
| GRAPHICS: | | |
| Charting Gallery/Executive MemoMaker Bundle | 45440A | Sold separately: Charting Gallery—45513A and/or Executive MemoMaker—45418A |
| Charting Gallery | 45513A | Graphics Gallery Collection—45437A |
| Drawing Gallery | 45411A | Graphics Gallery Collection—45437A |
| HPDraw Figures Portfolio | 45571A | None |
| Office Activities Portfolio | 45568A | None |
| Business Mgmt. Portfolio | 45570A | None |
| Chemical/PetroChemical Portfolio | 45669A | None |
| Graphplan by Chang Labs | 45467A | Available from Chang Labs |
| Graphwriter Basic Set | 45484A | None |
| PFS: Graph | 45490A | None |
| Series 100 Graphics—U.S. | 45410A | Charting Gallery—45513A |
| INTEGRATED SOLUTIONS: | | |
| ExecuDesk System | 45442A | ExecuDesk sold separately—45444A |
| ExecuDesk System | 45444A | None |
| Symphony from Lotus | 45498A | None |
| SPREADSHEETS: | | |
| Context MBA/150 | 45481A | None |
| Financial Calculator | 45423A | None |
| MicroPlan | 45465A | Available from Chang Labs |
| MicroPlan Consolidation Module | 45466A | Available from Chang Labs |
| Microsoft Multiplan/150 | 45473A | None |
| Microsoft Multiplan | 45473D | None |
| VisiCalc Deluxe | 45405A | None |
| VisiCalc/150—U.S. English | 45405A | None |

**Touchscreen/150:**

| Product Name | HP Product # | Superseded by: |
|---|---|---|
| WORD PROCESSING: | | |
| MemoMaker/150—U.S. English Touchscreen | 45420A | Executive MemoMaker/150—45418A |
| PFS: Write | 45489A | None |
| Microsoft Spell | 45556D | None |
| Microsoft Word | 45974D | None |
| MultiMate | 45424A | None |
| WordStar Professional | 45427D | None |
| WordStar/150—U.S. English | 45400A | WordStar—Professional—45427D |
| MailMerge—U.S. English | 45401A | Included in WordStar Professional—45427D |
| SpellStar | 45402A | SpellStar has been superseded by CorrectStar which is included in WordStar Professional—45427D. An Upgrade kit is available from CorrectStar to SpellStar for users with a dual single-sided disk drive. |
| WordStar/MailMerge/SpellStar Combo | 45404A | Superseded by WordStar Professional—45427D. |
| WordStar | 45400D | Included in WordStar Professional (45427D) |
| WordStar Professional Options | 45429D | |

**HP Vectra PC and/or IBM PC/XT/AT:**

| Product Name | HP Product # | Superseded by: |
|---|---|---|
| DATA COMMUNICATIONS: | | |
| AdvanceLink | 45431E | AdvanceLink—68333F |
| Monitor/IBM PC | 45439A | AdvanceLink—68333F |
| DATABASES: | | |
| ECM Templates | 68335F | Now included with Executive Card Manager |
| Personal Card File | 45422E | Executive Card Manager—68331F |
| R:Base 5000 | 68336F | Available from Microrim, Inc. |
| R:Base System V | 68328F | Available from Microrim, Inc. |
| INTEGRATED SOLUTIONS: | | |
| Symphony from Lotus | 68339F | Available from Lotus Development Corp. |
| WORD PROCESSING: | | |
| Memomaker/IBM PC | 45420E | Executive Memomaker—68330F |
| WordStar | 68345F | Available from MicroPro, Inc. |
| WordStar Professional | 68346F | Available from MicroPro, Inc. |
| WordStar 2000 | 68341F | Available from MicroPro, Inc. |
| WordStar 2000 PLUS | 68342F | Available from MicroPro, Inc. |
| MultiMate | 68338F | Available from MultiMate International Corp. |
| MultiMate Advantage | 68343F | Available from MultiMate International Corp. |
| SPREADSHEETS: | | |
| Executive Spreadsheet | 68332F | |

**The Portable or the Portable Plus:**

| Product Name | HP Product # | Superseded by: |
|---|---|---|
| SPREADSHEETS: | | |
| Lotus 1-2-3 Release 1A | 45548K #400 | 45539K #400 (1-2-3 ver. 2.01) |

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Here is a list of the most popular HP PC supplies and accessories.

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

For ordering information—or to obtain a copy of the *User's Catalog*—refer to the "How To Order" section in this Current Information section.

**For Computers**

■ **HP Vectra PC**

| | |
|---|---|
| 24542D | Parallel printer cable for the Vectra PC (2 meters) |
| 24542G | Serial printer/plotter cable for the Vectra PC (3 meters) |
| 24542H | Serial plotter cable for Vectra PC to 7550 plotter (3 meters) |
| 24542M | U.S./European modem cable (3 meters) for the Vectra PC |
| 35178A | Vectra PC three-piece carrying case |
| 35178C | Vectra Portable carrying case |
| 35178F | Vectra LS/12 carrying case |
| 35184E | Deskplotter software (allows DeskJet to do plotter graphics) |
| 35188A | LaserPlotter software (allows laser to do plotter graphics) |
| 35190J | LaserControl software (print Lotus sideways) |
| 35190P | Jetplotter software (allows InkJet printers to emulate plotters) |
| 45986A | Security System Lock |
| 46296A | Backup Power Supply |
| 92165A | 2 plug surge suppressor |
| 92165B | 4 plug surge suppressor |
| 92165C | 6 plug surge suppressor |
| 92165R | RS-232C surge protector |
| 92166A | Vectra PC keyboard park |
| 92171C | Vectra PC keyboard park drawer |
| 92171X | ThinkJet printer stand for top of display |
| 92190A | 5.25-inch flexible disks, 360 KB (formatted capacity), double-sided, unformatted (box of 10 disks) |
| 92190X | High-capacity 5.25-inch flexible disks, 1.2 MB (formatted capacity), for use on the Vectra PC's high capacity internal disk drive, double-sided, unformatted (box of 10 disks) |
| 92190Z | Box of 100, high capacity 5.25-inch flexible disks, 1.2 MB (formatted capacity), for use on the Vectra PC's high capacity internal disk drive, double-sided, unformatted |
| 92192A | 3.5-inch micro flex disks, 710/720 KB, (formatted capacity) double-sided (box of 10) |
| 92192T | 205' long formatted/certified mini data cartridge, 40 MB formatted (box of 5) |
| 92192X | 3.5-inch micro flex disks, high-density 1.42/1.44 MB (formatted capacity), double sided (box of 10) |
| 92208A | Mobile PC Centre |
| 92259A | Vectra PC, Vectra ES dust cover for monochrome monitor and keyboard |

| | |
|---|---|
| 92259B | Vectra PC, Vectra ES dust cover for color/EGA monitor and keyboard |
| 92259K | Vectra CS/ES/RS dust cover for monochrome monitor and C1405A keyboard |
| 92259L | Vectra CS/ES/RS dust cover for EGA/VGA color monitor and C1405A keyboard |
| 92259M | Vectra CS/ES/RS dust cover for monochrome VGA monitor and C1405A keyboard |
| 92261R | ThinkJet paper catcher (use with 92171X printer stand) |
| 92268A | 4 metre StarLAN cable. 8-pin connectored/4 twisted pair unshielded cable with RJ45 connectors |
| 92268B | 8 metre StarLAN cable. 8-pin connectored/4 twisted pair unshielded cable with RJ45 connectors |
| 92268C | 16 metre StarLAN cable. 8-pin connectored/4 twisted pair unshielded cable with RJ45 connectors |
| 92268D | 32 metre StarLAN cable. 8-pin connectored/4 twisted pair shielded cable with RJ45 connectors |
| 92299F | Compact workstation kit for Vectra PC |

**For Disk Drives**

■ **HP 9122C and 9153C 3.5-inch Disk Drives**

| | |
|---|---|
| 92191E | FlexFiles for 3.5-inch disks (Pkg. of 5 FlexFiles—each unit holds 10 disks) |
| 92191F | Portable album file for 3.5-inch disks (capacity 20 disks) |
| 92191M | Micro carrying case pack for 3.5-inch disks (Pkg. of 3 cases—each case holds 5 disks) |
| 92191P | Hanging file pages for 3.5-inch disks (capacity 40 disks) |
| 92191Q | Compact file for 3.5-inch disks (capacity 40 disks) |
| 92191T | Micro disk case for 3.5-inch disks (capacity 10 disks) |
| 92192A | 3.5-inch micro flexible disks—double-sided (box of 10) |
| 92192N | 3.5-inch micro flexible disks—double-sided (box of 100) |
| 92192X | 3.5-inch high density microflexible disks (box of 10) |

■ **HP 45812A Internal 1.2 MB 5.25-inch Disk Drive for the Vectra PC**

| | |
|---|---|
| 92190X | 5.25-inch high capacity flexible disk (box of 10) |
| 92194A | Compact file for 5.25-inch disks (capacity 60 disks) |
| 92194E | FlexFiles for 5.25-inch disks (Pkg. of 5 FlexFiles—each unit holds 10 disks) |
| 92194G | Portable album file for 5.25-inch disks (capacity 20 disks) |
| 92194P | Hanging file pages for 5.25-inch disks (Pkg. of 10—capacity 20 disks) |

■ **HP 45813A Internal 1.44 MB 3.5-inch Disk Drive for the Vectra PC**

| | |
|---|---|
| 92191E | FlexFiles for 3.5-inch disks (Pkg. of 5 FlexFiles—each unit holds 10 disks) |
| 92191F | Portable album file for 3.5-inch disks (capacity 20 disks) |
| 92191M | Micro carrying case pack for 3.5-inch disks (Pkg. of 3 cases—each case holds 5 disks) |
| 92191P | Hanging file pages for 3.5-inch disks (capacity 40 disks) |
| 92191Q | Compact file for 3.5-inch disks (capacity 40 disks) |
| 92191T | Micro disk case for 3.5-inch disks (capacity 10 disks) |
| 92192A | 3.5-inch micro flexible disks—double-sided (box of 10) |
| 92192N | 3.5-inch micro flexible disks—double-sided (box of 100) |
| 92192X | 3.5-inch high density microflexible disks (box of 10) |

■ **HP D1671A Cartridge Tape Drive**

| | |
|---|---|
| 92192Q | Storage tray for 92192T tapes (holds up to 18 tapes) |
| 92192T | 205' formatted/certified mini data cartridge, 40 MB formatted (box of 5) for the Vectra D1671A tape drive |

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**For Printers**

■ **HP 3630A PaintJet Color Graphics Printer**

| | |
|---|---|
| 17301A | PaintJet softfonts for Microsoft Windows |
| 17305A | PaintJet printer interface kit for Macintosh computers. For Mac PLUS, SE or II, includes driver, soft fonts, and cable. |
| 35190P | JetPlotter software (allows PaintJet to emulate plotter) |
| 51606A | Black ink print cartridge |
| 51606C | Color ink (cyan, magenta, yellow) print cartridge |
| 51630P | Z-fold PaintJet printer paper (250 sheets) |
| 51630Q | PaintJet transparency film (50 sheets with sleeves) |
| 51630R | Z-fold PaintJet paper, A4 size (250 sheets) |
| 51630S | PaintJet transparency film, A4 size (250 sheets) |
| 51630Y | Cut-sheet PaintJet printer paper (250 sheets) |
| 51630Z | Cutsheet PaintJet paper, A4 size (250 sheets) |
| 92171X | Terminal top ThinkJet stand |
| 92177Z | DeskJet organizer |
| 92261G | Paper catcher for 92269A printer stand |
| 92261S | ThinkJet printer stand |
| 92261T | QuietJet PLUS printer stand |
| 92261U | QuietJet printer stand |
| 92250Z | PaintJet printer dust cover |
| 92269A | Desktop stand for PaintJet Printer |

■ **HP 2225A/B/C/D ThinkJet Printer**

| | |
|---|---|
| 35178C | Carrying Case |
| 51604A | Plain paper ink cartridge (black) |
| 51605B | Jet Paper ink cartridge (blue) |
| 51605G | Jet Paper ink cartridge (green) |
| 51605R | Jet Paper ink cartridge (red) |
| 35190P | Jetplotter software (allows ThinkJet Printer to emulate plotter) |
| 51630A | Fan-fold Jet Paper (500 sheets/box) |
| 51630J | Cut-sheet Jet Paper (500 sheets/box) |
| 51630L | Pressure sensitive ink jet labels (2 across, 2000/box) |
| 92171X | Terminal top ThinkJet printer stand for 239X series terminals |
| 92250V | Dust cover |
| 92261A | Jet Paper ink cartridge (black) |
| 92261D | Accessory Kit (2 Jet Paper cartridges, 500 sheets fanfold paper, 500 sheets cut paper, 1 dust cover, and 1 printer stand) |
| 92261N | Fan-folded Jet Paper (five 500-sheet packs) |
| 92261R | Paper catcher for use with 92261S and 92171X stands |
| 92261S | Desktop ThinkJet printer stand |

■ **HP 2227A/B QuietJet/QuietJet Plus**

| | |
|---|---|
| 51604A | Plain paper ink cartridge (black) |
| 51605B | Jet Paper ink cartridge (blue) |
| 51605G | Jet Paper ink cartridge (green) |
| 51605R | Jet Paper ink cartridge (red) |
| 51630B | Z-fold wide Jet Paper for QuietJet Plus (500 sheets) |
| 51630D | Z-fold wide Jet Paper for QuietJet plus (2500 sheets) |
| 92250X | QuietJet dust cover |
| 92250W | QuietJet Plus dust cover |
| 92261A | Jet Paper ink cartridge (black) |
| 92261G | Paper catcher for 92261T/U printer stands |
| 92261P | QuietJet Plus accessory kit (1 each black, blue, green, and red Jet Paper cartridges, printer stand, dust cover, printer paper) |
| 92261T | QuietJet Plus printer stand |
| 92261U | QuietJet printer stand |
| 35190P | Jetplotter software (allows QuietJet to emulate plotter) |

■ **HP 2235A/B/C/D RuggedWriter Printer**

| | |
|---|---|
| 35190R | Matrix Plotter software (allows RuggedWriter to do graphics at 180 x 360 D.P.I.) |
| 92156S | Ribbon cartridges (box of 3 cartridges) |
| 92166A | Desktop printer stand |
| 92157A | Printer paper, fan-folded (box of 2400 sheets) |
| 92157C | Printer paper, microperforated, fan-folded (box of 2400 sheets) |

■ **HP 2276A DeskJet Printer**

| | |
|---|---|
| 22707A | 128K RAM cartridge for use with soft fonts |
| 22707E | Epson FX-80 printer emulation cartridge |
| 22708A | TmsRmn/Helv soft font (requires additional 128K or 256K RAM, depending on application) |
| 35184E | Deskplotter software (allows DeskJet to do graphics by emulating plotters) |
| 35190J | Laser Control software (allows DeskJet to emulate IBM, Epson, or other printers) |
| 51608A | Black print cartridge |
| 92250R | DeskJet printer dust cover |

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**Font Cartridges for HP 2276A DeskJet Printer:**

| | |
|---|---|
| 22706A | Courier |
| 22706B | Prestige Elite |
| 22706C | Letter Gothic |
| 22706D | TmsRmn 8 & 10 Point |
| 22706E | TmsRmn 12 Point |
| 22706F | TmsRmn 14 Point |
| 22706G | Helv 8 & 10 Point |
| 22706H | Helv 12 Point |
| 22706J | Helv 14 Point |
| 22706M* | Presentations |
| 22706P* | TmsRmn ASCII |
| 22706Q* | Helv ASCII |
| 22707K | Landscape upgrade cartridge |
| 22707L | Landscape fonts cartridge (must use with 22707K only) |

*This font cartridge contains ASCII characters only and may not be suitable for use in countries requiring non-English characters and symbols.

■ **HP 33440A LaserJet Series II Printer**

| | |
|---|---|
| 35188A | LaserPlotter software (allows LaserJets to do graphics by emulating plotters) |
| 35190J | LaserControl software (to control LaserJet fonts and paper handling) |
| 92157K | 1" labels (other sizes also available) |
| 92211B | Mobile printer cabinet |
| 92214 | Universal support stand for LaserJet printer |
| 92259G | Dust cover |
| 92285J | Transparencies |
| 92295A | Toner (EP-s) cartridge |
| 92295B | 8.5" x 11" paper tray (letter/standard size) |
| 92295C | 8.5" x 14" paper tray (legal size) |
| 92295D | A4 paper tray (metric size) |
| 92295E | 7.25" x 10.5" paper tray (executive size) |

■ **HP LaserJet/LaserJet Series II Printer Fonts**

| | |
|---|---|
| 92286A | Plug-in type-font cartridge (Courier and Line Printer, compressed) |
| 92286B | Plug-in type-font cartridge (Proportional Spacing) |
| 92286C | Plug-in type-font cartridge (International Courier) |
| 92286D | Plug-in type-font cartridge (Prestige Elite) |
| 92286E | Plug-in type-font cartridge (Letter Gothic) |
| 92286F | Plug-in type-font cartridge (Proportional Spacing II) |
| 92286G | Plug-in type-font cartridge (Legal Elite) |
| 92286H | Plug-in type-font cartridge (Legal Courier) |
| 92286J | Plug-in type-font cartridge (Math Elite) |
| 92286L | Plug-in type-font cartridge (Courier and Line Printer) |
| 92286M | Plug-in type-font cartridge (Prestige Elite P + L) |
| 92286N | Plug-in type-font cartridge (Letter Gothic P + L) |
| 92286P | Plug-in type-font cartridge (TMS Rmn P + L) |
| 92286PC | Plug-in type font cartridge (ProCollection) |
| 92286Q | Plug-in type-font cartridge (Memo 1) |
| 92286R | Plug-in type-font cartridge (Presentations 1) |
| 92286T | Plug-in type-font cartridge (Tax) |
| 92286U | Plug-in type-font cartridge (Forms, "portrait"-style) |
| 92286V | Plug-in type-font cartridge (Forms,"landscape"-style) |
| 92286X | Plug-in type-font cartridge (EAN/UPC/OCR-B) |
| 92286Y | Plug-in type-font cartridge (PC Courier 1) |
| 92286Z | Plug-in type-font cartridge (Microsoft 1) |

**HP Soft Fonts for MS-DOS—5.25-inch disks (HP Vectra/IBM/IBM compatibles)**

| | |
|---|---|
| 33412AC | Soft font (TMS Rmn/Helv Base Set—USASCII) |
| 33412AD | Soft font (TMS Rmn/Helv Base Set—ROMAN 8) |
| 33412AF | Soft font (TMS Rmn/Helv Supplemental—ROMAN 8) |
| 33412DA | Soft font (Letter Gothic Base Set) |
| 33412EA | Soft font (Prestige Elite Family) |
| 33412RA | Soft font (Garamond) |
| 33412SA | Soft font (Century Schoolbook) |
| 33412TA | Soft font (Zaph Humanist) |
| 33412UA | Soft font (Headline Typeface, Collection 1) |
| 35188A | LaserPlotter software (allows full page graphics output by emulating plotters) |
| 35190J | LaserControl (allows font downloading and selection) |
| C2051A Option ABA | Soft font (Type Director 3.5-inch and 5.25-inch) |
| C2052A Option ABA | Soft font (Premier Collection 5.25") |
| C2054A Option ABA | Soft font (Premier Collection 5.25") |
| C2050A Option D01 | Typefaces (CG Times 3.5" and 5.25") |
| C2050A Option D02 | Typefaces (Univers 1 3.5" and 5.25") |
| C2050A Option D03 | Typefaces (Decorative 1 3.5" and 5.25") |

**For HP ColorPro, 7470A, 7475A and 7550A Plotters**

■ **Non-Glossy Plotter Paper**

| | Size/Sheets |
|---|---|
| 17800P | A/50 |
| 17801P | A/250 |
| 17802P | A4/50 |
| 17803P | A4/250 |
| 17804P | B/50 |
| 17805P | B/250 |
| 17806P | A3/50 |
| 17807P | A3/250 |

■ **Glossy Plotter Paper**

| | Size/Sheets |
|---|---|
| 17900G | A/100 |
| 17901G | A4/100 |
| 17902G | B/100 |
| 17903G | A3/100 |

■ **Transparency Plotter Film**

| | Size/Sheets |
|---|---|
| 17700T | A/50 (7440/70) |
| 17701T | A4/50 (7440/70) |
| 17702T | A/50 (7475 + others) |
| 17703T | A4/50 (7475 + others) |

■ **Fiber-Tip Paper Pens**

| .3mm | .7mm | Single-color (5 pens/pkg) |
|---|---|---|
| 17825P | 17826P | Black |
| 17827P | 17828P | Green |
| 17829P | — | Aqua |
| 17831P | 17832P | Blue |
| 17833P | — | Violet |
| 17835P | — | Brown |
| 17837P | — | Yellow |
| 17839P | — | Orange |
| 17841P | 17842P | Red |
| 17843P | — | Red-Violet |
| | | Multi-color |
| 17845P | 17846P | Std Assort |
| 17847P | 17848P | Cool Assort |
| 17849P | 17850P | Warm Assort |

■ **Fiber-Tip Transparency Pens**

| .3mm | .7mm | Single-color (5 pens/pkg) |
|---|---|---|
| 17725T | 17726T | Black |
| 17727T | 17728T | Green |
| 17729T | — | Aqua |
| 17731T | 17732T | Blue |
| 17733T | — | Violet |
| 17735T | — | Brown |
| 17737T | — | Yellow |
| 17739T | — | Orange |
| 17741T | 17742T | Red |
| 17743T | — | Red-Violet |
| | | Multi-color |
| 17745T | 17746T | Std Assort |
| 17747T | 17748T | Cool Assort |
| 17749T | 17750T | Warm Assort |

■ **Accessories**

| | |
|---|---|
| 07550-60210 | Dust cover (7550A) |
| 07440-60006 | Dust cover (Color Pro) |
| 07475-60010 | Dust cover (7475A) |
| 92166E | Plotter sound enclosure (for ColorPro, 7470A & 7475A plotters only) |
| 92177V | Personal Plotter-pen organizer (for fiber-tip pens) |
| 92177T | Plotter-pen organizer (for short pens) |
| 92177U | Plotter-pen organizer (for tall pens) |
| 92177W | ColorPro (7440A) graphics organizer |
| 92177X | 7475A graphics organizer |
| 92177Y | 7550 graphics organizer |
| 92214P | Mobile support stand (7475) |
| 92250N | Dust cover (7470A) |
| 92269A | Desktop stand (7470A, ColorPro) |

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Hewlett-Packard personal business computers and their application programs are designed for ease of use and ease of learning. Classroom training courses can help first-time computer users rapidly build confidence and gain new skills in a supportive environment away from the day-to-day job.

**HP-Conducted Introductory Courses**

Hewlett-Packard provides training courses at HP Customer Education Centers using HP-provided equipment; they can also be taught by HP at your facility using your own systems. To order, call your HP sales office or Education Center.

- *Getting Started—HP Vectra PC*

  This class is designed to acquaint the novice Vectra PC user with the machine's many capabilities. Topics covered include installing applications, P.A.M., MS-DOS commands, disk formatting, file management, and system configuration.

  HP 72401A (1 day)

- *Getting Started—The Portable*

  This class teaches new computer users to operate the Portable using P.A.M., to write and save a memo, and to dial an electronic information service. You will also gain an understanding of compatibility issues between desktops and The Portable.

  HP 45689A (1 day)

- *Getting Started—The Touchscreen*

  This workshop was created especially for beginners—so your first experience with your new HP 150/Touchscreen PC computer will be a positive one. You'll learn how to define basic computer terms, start up the system, handle disks properly, prepare new disks, and install application software.

  HP 35036B (1 day)

  This course, or equivalent knowledge, is a prerequisite for all applications and programming training on the HP 150.

**HP-Conducted Application Courses**

We have structured the curriculum for maximum flexibility. You can attend whatever functional area course you want—spreadsheet analysis, word processing, database management, or integrated software—without having to go through material you are not interested in. For further efficiency, *WordStar/150* and *Condor/150* are each divided into two modules, allowing you to choose the depth of understanding you wish to attain.

All of these classes provide hands-on work with the HP 150 during class time for maximum effectiveness.

- *Advanced Lotus 1-2-3*

  This class teaches Lotus 1-2-3 users advanced 1-2-3 features such as Data Sort, Data Query and Data Table commands, database statistical functions, keyboard macros, programming with the /X commands, and advanced file commands.

  HP 05097A (1 day)

- *MultiMate*

  This class is designed for secretaries and clerks with little or no prior word processing experience. You will learn how to create, edit, format, and print documents.

  HP 51400A (1 day)

- *MS-Word*

  This class is designed for business professionals, word processing specialists and clerical personnel. You will learn to create, edit, format and print documents. In addition, you will learn to create multi-columnar documents, to set up glossaries and to understand the use of windowing.

  HP 51401A (1 day)

- *AdvanceWrite Plus Course 1*

  Provides AdvanceWrite Plus users with an introduction to the basic features of AdvanceWrite Plus. Students develop expertise in creating, editing and formatting documents. Students will also be introduced to file use and directories.

  HP 27542A

- *AdvanceWrite Plus Course 2*

  Provides AdvanceWrite Plus users with the ability to use the mailmerge facility to produce standard letters, to use Wordbase Manager, to create tables of contents and indices, to use the spreadsheet feature, and to use other advanced features of AdvanceWrite Plus.

  HP 27543A

- *AdvanceWrite Plus Course 3*

  Provides AdvanceWrite Plus users with an overview & understanding of the major new product features. Students will practice the integration of graphic images into a document, using advanced formatting capabilities, and using the printing options available in AdvanceWrite Plus.

  HP 27544A

- *AdvanceWrite Plus*

  Covers the material in HP 27542A, HP 27543A and HP 27544A for MS-DOS-compatible keyboards and the enhanced HP Vectra PC keyboards.

  HP 27547A

- *AdvanceWrite Plus Advanced Features*

  Covers the material in HP 27543A & HP 27544A.

  HP 27548A

- *Lotus 1-2-3*

  This introductory workshop familiarizes you with the features, worksheet, and command structure of Lotus 1-2-3. Using hands-on practice, you will learn how to create and format a spreadsheet; save a worksheet and print a report; create and use a database; and create, print, and plot a graph.

  HP 45688A (1 day)

- *Learning VisiCalc/150*

  A solid introduction to the elements of a VisiCalc worksheet is provided in this workshop. Participants will learn to create, edit and print worksheets, identify and use 16 commands, activate the function keys, and store and load worksheets.

  HP 35125A (1 day)

- *WordStar®/Word Processing*

  The WordStar® workshop for the HP 150/ Touchscreen PC will help you get started with word processing and its many capabilities. By the end of the workshop you will know how to start WordStar, create a new document, and then edit, save and print documents.

  HP 35123B (1 day)

- *MailMerge and SpellStar/150*

  As a follow-on to WordStar, this workshop shows you how to merge files with MailMerge™ as well as proof your text using the SpellStar™ 20,000 word dictionary. In practice sessions, you will learn how to create a mailing list database and then combine this with text files to print customized letters and memos. The majority of WordStar's dot commands are explained and illustrated.

  HP 35123C (½ day)

- *WordStar/150 and MailMerge/SpellStar/150* are available as a single unit.

  HP 35123A (1½ days)

- *Condor 20-1 and 20-2/150*

  This workshop will introduce you to Condor™—an easy-to-use, yet powerful database management system. After you understand what a database system is you'll learn how to use one by designing a form for entering data, creating a simple dataset, editing information, sorting and creating simple reports, and reorganizing a dataset.

  HP 35124B (1 day)

- *Learning Condor 20-3/150*

  The Condor 20-3 workshop will provide you with in-depth experience using Condor's advanced database management and report writing capabilities including indexing a new or existing dataset, joining unlike datasets, creating, printing and revising reports, and creating and running a help screen and command procedure.

  HP 35124C (1 day)

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- *Condor 20-1 and 20-3/150* can be ordered as a single unit.

  HP 35124A (2 days)

| | |
|---|---|
| **HP Customized Training** | These courses can be taught at your facility using your own systems—or training to suit your specific needs can be designed and given through HP's Personal Computer Applications Engineering Consulting Service. Contact your HP sales and service office for details. |
| **Dealer-Conducted Courses** | Many HP personal computer dealers teach similar courses or arrange for a Hewlett-Packard instructor to teach courses in your area. Contact your dealer for details. |

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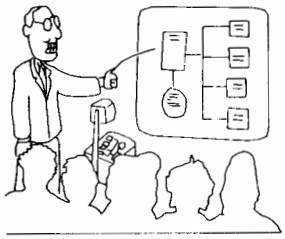
## Classroom Learning Packs

Brian Egan, Roger Williams



The Classroom Learning Pack is a new concept expressly designed for the instructor of a classroom course on personal computer software. We've developed ready-to-use materials—an instructor's guide, overhead transparencies, and student activity sheets—so that you can quickly prepare for a course. The course is easy to teach because the focus is on extensive hands-on practice with the software.

Classroom Learning Packs are offered for:

**AdvanceMail** (A.02.00)/Vectra and IBM PC/XT/AT includes materials for 10 students . . . . . HP 27535V

Additional Student Learners' Packs (10 pack) . . . . . HP 27535W

**Executive Card Manager**/Vectra and IBM PC/XT/AT . . . . . HP 89913F

During most of the course the students will be actually using the software, and the instructor will be serving as a coach, not a lecturer.

To help you prepare for your role in leading the class, the Executive Card Manager Learning Pack includes the corresponding HP FastTrak Guide for expert users. FastTrak is self-study, modular training on such topics as installation, configuration, demonstrations, software features, and integration with other software. You'll be well prepared to answer any questions that come up during class.

Not only will the students practice with the software, they'll also practice using the documentation that accompanies the product. After they leave the class they will be able to find valuable information in the manuals when they need it.

| | |
|---|---|
| **AdvanceMail** | With the AdvanceMail Customer Education Trainer's Pack you can teach users the effective use of AdvanceMail version A.02.00, HP's electronic mail system.<br><br>The trainer's pack has a modular format which allows you to customize the course to your needs. The course provides guidance on selected modules and sample curricula for common training scenarios. Student Reference Cards provide seamless customization of student materials. In addition, you can personalize the course by editing the overhead slides using Graphics Gallery files supplied on disk.<br><br>The pack supports an initial class of 10 students. For subsequent classes you can order Learners' Packs (product number HP 27535W) which contain 10 sets of student materials. |
| **Executive Card Manager** | The Executive Card Manager Learning Pack includes lessons on creating a cardfile; adding, updating, and deleting cards; finding cards; and creating reports. This course may be used for teaching Executive Card Manager on the HP Vectra PC or an IBM PC/XT/AT. |
| **Ordering Information** | To order Classroom Learning Packs and Student Learners' Packs, contact your local dealer or HP office. |

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## HP FastTrak and ExpertGuide Self-Study Packs

Linda Swett

HP FastTrak, FastTrak PLUS, and ExpertGuide are comprehensive self-study training packs for user support personnel and expert users.

If you provide support services for personal computer users in your organization, or if you need information beyond the scope of the software documentation, these self-study packs will make your job easier by helping you learn the ins and outs of the software quickly.

Topics covered include product overview, supported configurations, features and uses, demo tips, integration with other personal computer applications, installation, performance, and technical tips. The format is consistent with the software documentation to simplify the learning process. In addition, the guides are completely modular so you can learn what you want, when you want.

**HP FastTrak**

HP FastTrak guides are now available for the following software applications:

**Executive MemoMaker** (HP 89915F)
**Executive Card Manager** (HP 89916F)
**AdvanceLink** (HP 89918F)
**Gallery Collection** (HP 68352X)
(includes Charting and Drawing Gallery FastTraks)

Each guide covers the Touchscreen/150 and HP Vectra versions of software. FastTrak guides for Executive MemoMaker, Executive Card Manager, and Gallery Collection also include a 3½-inch and 5¼-inch disk of demonstration files.

**Windows HP ExpertGuide for Microsoft Windows**

If you desire technical user information beyond the scope of the Microsoft Windows User's Guide, a Windows HP ExpertGuide is available for version A.01.03 of Windows. The Windows HP ExpertGuide for Microsoft Windows (HP 5958-7685) is a self-study reference and learning tool composed of readings, labs, examples, and quick reference information for Windows on the HP 150 and HP Vectra.

**Ordering Information**

To order any of these products, contact your local dealer or HP sales office.

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## Vectra PC Family Fundamentals: A Computer-Based Tutorial

Darcy Van Vuren

**The First Step Toward Effective Vectra Use**

**Vectra PC Family Fundamentals: A Computer-Based Tutorial** is a computer-based software package designed to introduce users of all Vectra PCs to the system as well as to provide more in-depth lessons for the more experienced user. This tutorial is highly interactive and its modular format permits users to learn at their own pace and at their own convenience.

This computer-based tutorial is an ideal way to come up to speed on Vectra PC basics and to obtain efficiently the solid background necessary to be a productive applications user. Upon completion of the four-to-six hour tutorial, users will have gained:

- An understanding of basic microcomputer terms and concepts;
- An understanding of how to start and stop the Vectra PC;
- Experience in the use of the keyboard;
- An understanding of the components of the computer and their functions;
- The ability to differentiate between an operating system and application software;
- The ability to use PAM to perform basic file management and directory management tasks; and
- An ability to use sixteen of the most essential MS-DOS commands.

**To Order**

To order Vectra PC Family Fundamentals, contact HP DIRECT or your sales office and request HP product number 51410B.

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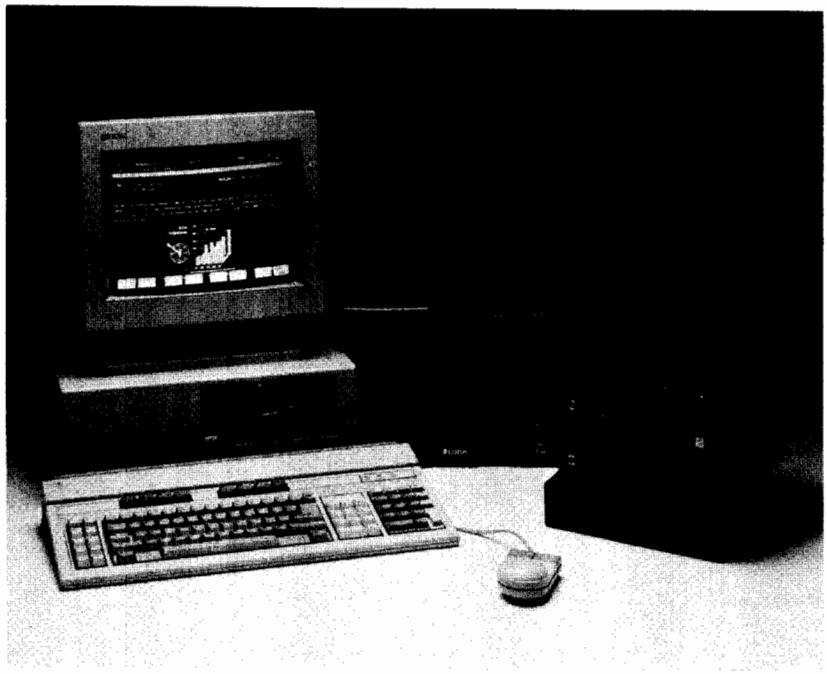

## HP PC Software Support

Rob Dattilo

If you can't wait long for answers to questions about PC application software and hardware installation, you should know about HP's support services for personal computers. HP has two contractual services and a per incident service.

1. HP ResponseLine for PCs is a contractual service that supports stand-alone PCs and PC LANs
2. The Integrated PC Office Applications option of your HP 3000 TeamLine or ResponseLine support contract provides support for your PCs as part of your overall HP software support contract.
3. If you do not wish to purchase contractual support for your PCs, HP offers HP HelpLine, a pay-as-you-go alternative for software support.

All services guarantee a two hour response time or less to ensure that you receive the prompt and expert attention your business demands.

- **HP ResponseLine for Personal Computers** provides telephone assistance with software problem resolution, installation, hardware configuration, and clarification of documentation on HP and popular third-party PC software through the HP Response Centers. You also receive access to HP SupportLine. HP SupportLine provides you with electronic access to HP support and product information. In addition, you receive a subscription to the *HP PC Communicator*, and first time purchasers of HP Responseline for PCs receive a copy of the computer-based tutorial *HP Vectra PC Family Fundamentals: A Computer-based Tutorial*.
- **Integrated PC Office Applications Option** (available only with HP TeamLine and HP ResponseLine software support contracts on the HP 3000) provides a cost effective way for you to integrate the support of PCs into your overall HP software support contract. This option to your HP TeamLine or HP ResponseLine contract provides telephone assistance with software problem resolution, installation, hardware configuration, and clarification of HP and popular third-party PC software through the HP Response Centers. In addition, as part of HP TeamLine this option provides you with an additional Support Management Review.

- **HP HelpLine** (Available U.S. and Canada only) provides you with a pay-as-you-go alternative for software support. You receive direct access to Response Center specialists with a two hour response time. Special certificates let you purchase assistance in advance or you can charge the toll-free call to your personal or company credit card.

**Ordering Information**

To order the personal computer software support service that best meets your support needs, call your local HP sales office. All contractual services must be purchased for a minimum of three months. All PC software support services apply only to software classified as HP-supported. Listed below are ordering instructions for HP ResponseLine for PCs, HP HelpLine, and Integrated PC Office Applications Option.

**HP ResponseLine**

| | |
|---|---|
| Software support for business PCs | H2015A + H00 |

Choose number of PCs supported by the system manager:

| | |
|---|---|
| Option #0JL | 1 PC |
| Option #0JM | 2-10 PCs |
| Option #0JN | 11-50 PCs |
| Option #0JP | >50 PCs |

Additional service feature:

#0FB Additional HP Response Center Caller

**HP HelpLine** (Available U.S. and Canada only)

You can charge individual support calls to personal or company credit cards by calling the HP HelpLine at **(800) 858-8857.** In addition, you may prepay for five calls by purchasing HP HelpLine Call Certificate Packs (HP 35159A), from HP DIRECT at **(800) 538-8787.**

**Integrated PC Office Applications Option**
(Available only with HP TeamLine and HP ResponseLine software support contracts on the HP 3000.)

| | | |
|---|---|---|
| HP TeamLine | H2000A + T00 | Option #0F8 |
| HP ResponseLine | H2001A + H00 | Option #0F8 |

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## Manuals:
## HP 150/Touchscreen and HP Vectra PC

Dave Carella

The following is a list of manuals which can be ordered for the HP 150/Touchscreen PC and the HP Vectra PC family. To order, refer to the "How to Order" section in the "green pages" of this issue.

■ **HP Touchscreen/150**

| | |
|---|---|
| 45624A | MS-DOS User's Guide for HP 150 (Includes binder and manuals 45624-90001, 90005, and 90006) |
| 45625-90002 | Technical Reference Manual Supplement |
| 45625A | HP 150 Technical Reference Manual (Includes 45625-90001 and 45625-90002) |
| *45626-90003 | More About Connecting HP Printers, Plotters, and Disk Drives |
| *45626-90004 | Using Your HP Touchscreen Personal Computer |
| *45626-90005 | Using Your HP Touchscreen Personal Computer as a Terminal |
| 45643-90002 | 45643A Extended I/O Accessory Card Service Manual |
| *45644-90002 | 45644A Etherlink/150 Accessory Service Manual |
| 45847-60017 | Using Your HP Touchscreen II as a Personal Computer Manual |
| 45847-90001 | Getting Started With Your HP Touchscreen II as a Personal Computer (150C) |
| 45847-90044 | Getting Started With Your HP Touchscreen II Personal Computer Manual |
| 45847-90051 | New Index—Using Your HP Touchscreen II Personal Computer |
| 45847-90061 | Using Your HP Touchscreen II Personal Computer Update |
| 45848-60001 | Using Your Touchscreen II as a Terminal (150C) |
| 45848-90015 | Using Your Touchscreen II as a Terminal Supplement |
| 45849-60202 | MS-DOS User's Guide for the HP 150/Touchscreen |
| 45849-60204 | HP 150 Programmer's Reference Manual |
| 45849-90002 | Touchscreen II Service Manual |
| 45849-90046 | Touchscreen II Personal Computer Operational Upgrade Instructions |
| 45890-90002 | HP 150 Expanded Memory Board Users and Installation Manual |

*These manuals are for products or product versions that have been discontinued. You may receive a photocopy rather than an original manual.

■ **HP Vectra PC Family**

| | |
|---|---|
| 45897-90001 | Vectra Hard Disk Multi Voluming Instruction Guide |
| 45911-90002 | 45911A Graphics Tablet User's Manual |
| 45918A | HP-HIL Technical Reference Manual |
| 45932-90001 | See Kit D1100-90001 |
| *45934-90001 | Setting Up Vectra |
| *45934-90002 | Connecting Peripherals To Vectra |
| *45934-90004 | Vectra Installing Internal Options Chart |
| *45935-90059 | Vectra CE Handbook |
| 45945-60031 | Vectra System BIOS Technical Reference Manual Kit (contains manual 45945-90012 and binder) |
| 45945-90011 | See Kit 5061-8982 |
| 45945-90012 | See Kit 45945-60031 |
| 45951-90066 | MS-DOS 3.2 Condensed Reference Guide |
| 5061-8971 | MS-DOS 3.2 Programmer's Reference |
| 5061-8982 | HP Vectra ES Hardware Technical Reference Manual Kit (contains manual 45945-90011 and binder) |
| 5061-8983 | HP Vectra Accessories Technical Reference Manual Kit (contains manual 5959-6759 and binder) |
| 5061-8986 | Vectra RS Technical Reference Manual Kit (contains manual 5959-2654 and binder) |
| 5062-5527 | Vectra LS/12 Technical Reference Manual Kit (contains manual D1024-90010 and binder) |
| 5062-5528 | Vectra LS/12 Laptop PC Service Manual Kit (contains manual D1024-90011 and Binder) |
| 5958-7599 | HP Vectra RS/16, RS/20, RS/20C, and RS/25C PC Service Manual |
| 5958-7685 | HP Expert Guide for Microsoft Windows |
| 5959-2650 | HP Vectra RS Personal Computer Service Manual |
| 5959-2654 | See Kit 5061-8986 |
| 5959-6759 | See Kit 5061-8983 |
| D1024-90010 | See Kit 5062-5527 |
| D1024-90011 | See Kit 5062-5528 |
| D1001-90029 | Setting Up the Portable Vectra CS Literature Pak |
| D1100-90001 | HP Vectra CS PC Technical Reference Manual Kit (contains manual 45932-90001 and binder) |
| D1103-60005 | Vectra CS PC Service Manual Kit—2nd Edition (contains manual D1103-90002 and binder) |
| D1103-90002 | See Kit D1103-60005 |
| D1211-60003 | HP Vectra ES Personal Computer Service Manual Kit—2nd Edition (contains manual D1211-90002 and binder) |
| D1211-90002 | See Kit D1211-60003 |
| D1350-90104 | Vectra ES Series Set Up and HP Mode Configuration Bulletin |
| D1410-90001 | HP Vectra QS Service Manual |
| D1410-90002 | HP Vectra QS Hardware Technical Reference Manual |

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*These manuals are for products or product versions that have been discontinued. You may receive a photocopy rather than an original manual.

## Software Exchange Kits— Upgrades, Updates, and Replacements for Damaged Disks

Robert Millier

This section lists the software exchange kits available for The Portable, HP 120/125, Touchscreen/150, and HP Vectra PC. These kits contain the latest software and any manual updates issued since the original release. **Exchange kits are provided at a nominal charge.** You return your original master disk as proof of purchase and continue operating as usual with your work copy of the software.

Software Exchange Kits are provided for several different purposes:

- **Updates.** Software is revised to add new features, to work with new peripherals, or to correct problems. You can update your program and manuals at a nominal cost by ordering the appropriate Software Exchange Kit.
- **Upgrades.** When major features are added to a software product, you can order a Software Exchange Kit at a low cost—"trading in" your older version for one with the latest capabilities and documentation.
- **Media Replacement.** The master-copy/work-copy technique used is designed to minimize the risk of damage to your master software due to handling or human error. If this happens, Software Exchange Kits are available at a nominal charge. If the product has been updated since your original purchase, the Exchange Kit contains the latest version and any manual updates issued since the original release.

### Ordering

To order:

- In the U.S., Software Exchange Kits are available by mail from HP's Direct Marketing Division, using the form provided at the end of this article.
- Outside the U.S., contact your dealer or HP sales office for details.

For each kit ordered, along with your payment submit one corresponding original master disk. This is the disk with the HP software product number and description printed on the label. **Be sure to make working copies before sending your master disk.**

**To determine the price for a kit,** contact your dealer or HP office—or call the HP telephone order number for your country. (See the "How to Order" section later in this Current Information insert.) HP cannot accept orders submitted without the correct master disk.

Refer to the tables on the next pages for Exchange Kit part numbers.

**HP Internal Orders**

For HP Internal Orders of Software Exchange Kits, return the original master disks to:

Software Administrator, Building 78/3

or Hewlett-Packard
Attn: Software Administrator
P.O. Box 60008
Sunnyvale, CA 94088

Reference your HP Internal Order number on the package.

**Replacement Media for Discontinued Software**

We are committed to sustain support for Hewlett-Packard products well after technology advances and market demand cause us to discontinue offering a product for sale.

It is HP corporate policy to ensure availability of parts and full support services for your computer for at least five years beyond discontinuance. Specifically, this means:

- Replacement Media Exchange Kits available for five years from date of last HP shipment, as indicated for each product in the "Discontinued Software" table in this section.
- Availability of telephone assistance through Hewlett-Packard Help Line Response Centers.
- Continuing coverage in this magazine—the *HP PC Communicator.* (By the way, you can help—share your tips and ideas with other users—just send a note to the *HP PC Communicator* editor.)

**Products Not Listed**

Because entertainment software packages are low-priced, there are no exchange kits for these products. Re-order the original product to replace damaged disks.

For information on other products not listed, contact your dealer or HP sales and service office.

**Touchscreen/150**
**Software Exchange Kits**

| Product | Version | Order Part Number† | Notes |
|---|---|---|---|
| **Touchscreen (HP 150B) Operating System and Utilities** | | 45626-63007 | 1 |
| Sys Master Disk | | | |
| MS-DOS | 2.11 | | |
| MS-DOS COMMANDS | 2.11 | | |
| P.A.M. | B.02.02 | | |
| HPBIOS | B.02.02 | | |
| FORMAT | B.02.00 | | |
| DEV CONFIG | B.02.00 | | |
| Appl Master Disk | | | |
| COPY/BACKUP | B.02.02 | | |
| INSTALL | B.02.02 | | |
| SET UP P.A.M. | B.02.02 | | |
| MS-DOS UTILITIES | B.02.03 | | |
| **Touchscreen II Operating System and Utilities** | 2.11 | 45847-63004 | 2 |
| MS-DOS | 2.11 | | |
| MS-DOS COMMANDS | 2.11 | | |
| P.A.M. | C.01.00 | | |
| HPBIOS | C.01.02 | | |
| FORMAT | C.01.00 | | |
| DEV CONFIG | C.01.00 | | |
| EASY CONFIG | C.01.00 | | |
| COPY/BACKUP | C.01.00 | | |
| INSTALL | C.01.00 | | |
| SET UP | C.01.00 | | |
| SAVERAM | C.01.01 | | |
| MS-DOS UTILITIES | C.01.00 | | |
| OP SYS MASTER: | | | |
| European Spanish | | 45847-63005 | |
| French | | 45847-63006 | |
| German | | 45847-63007 | |
| Dutch | | 45847-63008 | |
| Norwegian | | 45847-63010 | |
| Swedish | | 45847-63011 | |
| UK | | 45847-63012 | |
| Finnish | | 45847-63013 | |
| Danish | | 45847-63014 | |
| Italian | | 45847-63015 | |

| Product | Version | Order Part Number† | Notes |
|---|---|---|---|
| **Touchscreen Operating System (upgrade)** | 3.2 | 45849-63031 | |
| **Touchscreen II Operating System and Utilities** | | 45847-63017 | |
| MS-DOS | 3.2 | | |
| MS-DOS COMMANDS | 3.2 | | |
| P.A.M. | E.01.01 | | |
| HPBIOS | E.01.01 | | |
| FORMAT | E.01.01 | | |
| DEV CONFIG | E.01.01 | | |
| COPY/BACKUP | E.01.01 | | |
| INSTALL | E.01.01 | | |
| SET UP | E.01.01 | | |
| SAVERAM | E.01.01 | | |
| STORE CONFIG | E.01.01 | | |
| MS-DOS UTILITIES | E.01.01 | | |
| **System Master Exchange Kit** | | 45847-63030 | |
| MS-DOS | 3.2 | | |
| MS-DOS COMMANDS | 3.2 | | |
| P.A.M. | E.01.01 | | |
| HPBIOS | E.01.01 | | |
| FORMAT | E.01.01 | | |
| DEV CONFIG | E.01.01 | | |
| EASY CONFIG | E.01.01 | | |
| **Application Master Exchange Kit** | | 45847-63031 | |
| COPY/BACKUP | E.01.01 | | |
| INSTALL | E.01.01 | | |
| SET UP | E.01.01 | | |
| SAVERAM | E.01.01 | | |
| STORE CONFIG | E.01.01 | | |
| **Utility Master Exchange Kit** | | | |
| MS-DOS UTILITIES | E.01.01 | 45847-63032 | |

| Product | Version | Order Part Number† | Notes |
|---|---|---|---|
| AdvanceLink (upgrade) | A.04.04 | 45431-63002 | |
| AdvanceLink (update) | A.04.04 | 45431-63001 | |
| Application Master (150 B) | B.02.00 | 45626-63006 | |
| BASIC Interpreter (replacement update) | *A.01.01 | 45445-63002 | |
| BASIC Compiler | A.01.00 | 45446-63002 | |
| COBOL (replacement) | A.01.00 | 45448-63001 | |
| Compiled BASIC (replacement update) | A.01.00 | 45446-63002 | |
| ExecuDesk (replacement) | A.01.01 | 45444-63001 | |
| Executive Card Manager (upgrade/ replacement) | A.02.00 | 45421-63004 | |
| Executive MemoMaker (replacement) | | | |
| Gold, Utility and Fonts master | C.03.00 | 45418-63005 | |
| Set-up and Dictionary master | C.03.00 | 45418-63007 | |
| Executive MemoMaker (C.02.00 to C.03.00 upgrade) | C.03.00 | 45418-63006 | |
| Forms Master (replacement) | A.01.00 | 45443-63001 | |
| FORTRAN (replacement) | A.01.00 | 45449-63001 | |
| FORTRAN Upgrade | *A.01.00 | 45449-63003 | |
| Gallery Collection (replacements) | | | |
| Bar, Line & Pie Charts | B.03.00 | 45513-63001 | |
| Basic Portfolio Disks 1 & 2 | B.03.00 | 45411-63004 | |
| Basic Portfolio Disks 3 & 4 | B.03.00 | 45411-63005 | |
| Business Management Portfolio Disks 1–3 | B.03.00 | 45570-63001 | |
| Gold Master | B.03.00 | 5061-9914 | |
| Set-up & Utility | B.03.00 | 5061-9917 | |
| HP Message to AdvanceMail (upgrade) | A.00.02 | 27534-63007 | |
| HP-IB Command Library (upgrade) | B.01.00 | 14857-63002 | |
| HP-IB Command Library for MS-DOS (replacement) | B.01.00 | 14857-63001 | |
| HP Message (upgrade) | A.00.02 | 36568-63001 | |
| HP Message to AdvanceMail (upgrade) | A.01.02 | 27534-63007 | |
| HP Terminal Program (replacement) | A.00.01 | 24597-65002 | |
| HP Word (replacement) | A.00.00 | 27505-63001 | |
| HP Word/PC (upgrade) | A.03.00 | 27505-60016 | |
| Lotus 1-2-3: (replacement) | | | |
| System Disk and Help Disk | 2.01 | 45566-63001 | |
| Install and Print Graph Disks | 2.01 | 45566-63002 | |
| Translate/View | 2.01 | 45566-63003 | |

| Product | Version | Order Part Number† | Notes |
|---|---|---|---|
| MemoMaker Time Manager (upgrade) | A.02.00 | 45504-64002 | |
| MS Word (replacement) | B.01.00 | 45474-63002 | |
| Pascal (replacement) | *A.01.00 | 45447-63002 | |
| PCF to Executive Card Manager (upgrade) | A.02.01 | 45421-63005 | |
| Print Central (replacement) | A.01.01 | 36890-63001 | |
| Print Central Upgrade | A.03.00 | 32593-63001 | |
| R:Base 5000 (replacement) | 1.1 | 45563-63001 | |
| R:Base 4000 to 5000 (upgrade) | 1.1 | 45563-63002 | |
| Symphony (replacements) | 1.1 | | |
| Prog. Disk, Tutorial, Help | | 45498-63002 | |
| Printgraph, Utility Disks | | 45498-63003 | |
| Install Prog., Library Disks | | 45498-63004 | |
| Tutorial1, Tutorial2 Disks | | 45498-63005 | |
| VT100 Terminal Emulator (replacement) | A.02.00 | 45412-63001 | |
| VT100 Terminal Emulator (replacement) | A.01.00 | 45412-63001 | |
| Windows Kernal (replacement) | A.01.03 | 45875-63001 | |
| Windows Write/Paint (replacement) | A.01.03 | 45875-63002 | |
| X.21 Interface (update) | 26.22 | 18154-17101 | |

(See Notes on next page)

*Revised since original release

†For each kit ordered, along with your payment submit one corresponding original master disk. This is the disk with the HP software product number and description printed on the label. Be sure to make working copies before sending your master disk.

**To determine the price for a kit,** contact your dealer or HP office, or call the HP telephone order number for your country. (See the "How to Order" section later in this Current Information Insert.) Orders submitted without the correct master disk cannot be accepted. If you want a kit with 5.25" disks, please indicate this preference on your order. Otherwise 3.5" disk will be shipped, regardless of the size of your returned master disk.

**Notes**

1—Three double-sided disks, written in single-sided format, to exchange for damaged HP 150A or Touchscreen (HP 150B) media. To upgrade an HP 150A to the **Touchscreen (HP 150B)** operating system, order this kit. To update an HP 150A or Touchscreen to the **Touchscreen II** operating system, order the Touchscreen II Upgrade Kit (45849-63024) from your dealer or HP office. The upgrade kit includes the new operating system disk and the ROM integrated circuits required by the new disk; it is not user-installable. (Refer to the article "Upgrading Your HP 150A or Touchscreen to a Touchscreen II" in *Communicator* Issue #13 for details).

2—Double-sided exchange disk for damaged Touchscreen II media. To upgrade an HP 150A or Touchscreen (HP 150B) to the Touchscreen II operating system, order the Touchscreen II Upgrade Kit (45849-63024) from your dealer or HP office. The upgrade kit includes the new operating system disk and the ROM integrated circuits required by the new disk; it is not user-installable. (Refer to the article "Upgrading Your HP 150A or Touchscreen to a Touchscreen II" in *Communicator* Issue #13 for details.)

**Vectra PC**
**Software Exchange Kits**

| Product | Version | Order Part Number† | Notes |
|---|---|---|---|
| AdvanceMail (upgrade) (5.25″) | A.02.00 | 27535-60002 | |
| AdvanceWrite I to AdvanceWrite Plus (Upgrade) | F.02.00 | 27546-60001 | |
| AdvanceWrite II to AdvanceWrite Plus (Upgrade) | F.02.00 | 27546-60002 | |
| AdvanceWrite III to AdvanceWrite Plus (Upgrade) | F.02.00 | 27546-60003 | |
| AdvLink Replacement (5.25″) | B.02.00 | 68333-65016 | |
| AdvanceLink Replacement (3.5″) | B.02.00 | 68333-63003 | |
| AdvanceLink (upgrade) | | | |
| 5.25″ | A.02.00 | 14753-61006 | |
| 3.5″ | A.02.00 | 14753-61005 | |
| AdvanceLink (upgrade) 5.25″ & 3.5″ | B.02.00 | 68333-60011 | |
| BASIC Interpreter (upgrade/replacement) | 3.22 | 45952-63001 | |
| CAT Replacement | | | |
| 5.25″ | A.02.00 | 14753-61006 | |
| 3.5″ | A.02.00 | 14753-61005 | |
| CAT Upgrade | | | |
| 5.25″ | A.02.00 | 14573-61001 | |
| 3.5″ | A.02.00 | 14753-61003 | |
| Charting Gallery 3.0 (upgrade) (contains 3.5″ and 5.25″) | C.00.00 | D1710-60001 | |
| Charting Gallery 3.0 (replacement) | | | |
| Setup/Utility and Application/Gold (3.5″) | C.00.00 | D1710-63001 | |
| Setup, Utility, Application, and Gold (5.25″) | C.00.00 | D1710-65001 | |
| Drawing Gallery 3.0 (upgrade) (contains 3.5″ and 5.25″) | C.00.00 | D1709-60001 | |
| Drawing Gallery 3.0 (replacement) | | D1709-63001 | |
| Setup/Utility and Application/Gold (3.5″) | C.00.00 | | |
| Portfolio 1 & 2 (3.5″) | C.00.00 | D1709-63002 | |
| Set, Utility, Application and Gold (5.25″) | C.00.00 | D1709-65001 | |
| Portfolio 1, 2, & 3 (5.25″) | C.00.00 | D1709-65002 | |

| Product | Version | Order Part Number† | Notes |
|---|---|---|---|
| Executive Card Manager | A.01.03 | 68331-65001 | |
| Executive Card Manager (upgrade) (5.25″) | A.01.08 | 68331-65002 | |
| Executive MemoMaker | A.01.02 | 68330-65001 | |
| Executive MemoMaker (upgrade) | A.03.00 | 68330-60005 | |
| Executive MemoMaker (replacements) | | | |
| Application & Utility (5.25″) | A.03.00 | 68330-65002 | |
| Gold & Dictionary (5.25″) | A.03.00 | 68330-65003 | |
| Gallery Collection 3.0 (upgrade) (contains 3.5″ and 5.25″) | C.00.00 | D1711-60001 | |
| Gallery Collection 3.0 (replacements) | | | |
| Setup/Utility and Application/Gold (3.5″) | C.00.00 | D1711-63001 | |
| Portfolio 1, 2, & 3 (3.5″) | C.00.00 | D1711-63002 | |
| Setup, Utility, Application, & Gold (5.25″) | C.00.00 | D1711-65001 | |
| Portfolio 1, 2, 3, 4, & 5 (5.25″) | C.00.00 | D1711-65002 | |
| Gallery Collection (replacements) | | | |
| Application Master (5.25″) | B.03.00 | 68351-65002 | |
| Application Master (3.5″) | B.03.00 | 68351-63001 | |
| Bar, Line & Pie Charts (5.25″) | B.03.00 | 68350-65001 | |
| Bar, Line & Pie Charts (3.5″) | B.03.00 | 68350-63001 | |
| Basic Portfolio Disks 1, 2 & 3 (5.25″) | B.03.00 | 68351-65001 | |
| Basic Portfolio Disks 1 & 2 (3.5″) | B.03.00 | 68351-63002 | |
| Basic Portfolio Disk 3 (3.5″) | B.03.00 | 68351-63003 | |
| Business Management Portfolio Disk 1 (5.25″) | B.03.00 | 68326-65001 | |
| Business Management Portfolio Disk 2 (5.25″) | B.03.00 | 68326-65002 | |
| Business Management Portfolio Disk 3 (5.25″) | B.03.00 | 68326-65003 | |
| Business Management Portfolio Disks I & II (3.5″) | B.03.00 | 68326-63001 | |
| Business Management Portfolio Disk III (3.5″) | B.03.00 | 68326-63002 | |
| Gold & Utility Master (5.25″) (replacement) | B.03.00 | 5061-9915 | |
| Gold Master (3.5″) (replacement) | B.03.00 | 5061-9919 | |
| Set-up Master (5.25″) (replacement) | B.03.00 | 5061-9916 | |
| Graphics Gallery Update | A.01.00 | 68352-65002 | |

| Product | Version | Order Part Number† | Notes |
|---|---|---|---|
| HP-IB Command Library (upgrade) | | 82990-65001 | |
| HP Message (upgrade) | A.00.02 | 36569-65001 | |
| HP Message to AdvanceMail (upgrade) | A.01.02 | 27535-65009 | |
| HP Terminal Program (replacement/ upgrade) | A.00.03 | 24597-65010 | |
| HP Word/PC (upgrade) (5.25") | A.03.00 | 27536-60008 | |
| MS-DOS Op Sys Disk (replacement) | A.01.02 | 45951-60001 | |
| MS-DOS Op Sys Disk (replacement) | A.01.04 | 45951-63001 | |
| MS-DOS Op Sys Disk (replacement) | B.01.01 | 45951-63017 | |
| MS-DOS 3.3 (5.25") (replacement) | C.01.01 | 45951-60029 | |
| MS-DOS 3.3 (3.5") (replacement) | C.01.01 | 45951-60030 | |
| MS Macro Assembler (replacement) | 4.0 | 45953-60001 | |
| MS Windows/286 2.1 (upgrade) (5.25") | B.02.10 | D1318-65002 | |
| MS Windows/286 2.1 (upgrade) (3.5") | B.02.10 | D1318-63001 | |
| Multiple Character Set Utilities MCS (replacement) | A.01.01 | 5061-8970 | |
| Office Talk (replacement) | A.01.02 | 24520-15001 | |
| PC Instrument Data Acquisition | A.02.00 | 14856-65001 | |
| PC Instrument System | B.01.00 | 61061-65001 | |
| Print Central (replacement) | A.01.00 | 36890-65001 | |
| Print Central (update) | A.03.00 | 32593-63001 | |
| R:Base 5000 (replacement) | 2537 | 68336-65001 | |
| R:Base Program Interface (replacement) | | 68337-65001 | |
| R:Base System V (replacement) | 1.1 | 68328-65012 | |
| Scanning Gallery (replacement) | A.02.00 | 68357-65001 | |
| Scanning Gallery<br>MS Windows Run-Time Version (replacement) | A.01.00 &<br>A.02.00 | 88290-10150 | |
| Scanning Gallery Plus (replacements) | | | |
| 5.25" | | | |
| Applications & Installation | A.03.00 | 68358-65001 | |
| Setup, Build, Display 1 & 2, Utilities 1–4 | A.03.00 | 68358-65002 | |
| 3.5" | | | |
| Applications & Installation | A.03.00 | 68358-63001 | |
| Setup & Build, Displays, Utilities 1 & 2, and Fonts | A.03.00 | 68358-63002 | |

| Product | Version | Order Part Number† | Notes |
|---|---|---|---|
| Set-up/Utilities Disk Vectra CS (3.5") (replacement) | B.03.00 | D1102-60041 | |
| Set-up/Utilities Disk Vectra CS (5.25") (replacement) | B.03.00 | D1102-60040 | |
| Set-up/Utilities Disk Vectra ES (3.5") (replacement) | B.03.00 | D1351-60053 | |
| Set-up/Utilities Disk Vectra ES (5.25") (replacement) | B.03.00 | D1351-60054 | |
| Symphony (replacement) | 2538 | 68339-65001 | |
| 1-2-3 by Lotus | 2.01 | 68340-65001 | |

**Portable**
**Software Exchange Kits**

| Product | Version | Order Part Number† | Notes |
|---|---|---|---|
| BASIC Interpreter | A.01.01 | 45445-63002 | |
| BASIC Compiler | A.01.01 | 45446-63002 | |
| Lotus 1-2-3 Upgrade (ROM) | 2.01 | 45539-64001 | |
| Prog. Tools | A.01.00 | 45419-63001 | |

†For each kit ordered,along with your payment submit one corresponding original master disk. This is the disk with the HP software product number and description printed on the label. Be sure to make working copies before sending your master disk.

To determine the price for a kit, contact your dealer or HP office—or call the HP telephone order number for your country. (See the "How to Order" section later in this Current Information Inset.) Orders submitted without the correct master disk cannot be accepted.

## Discontinued Software
## Replacement Media Exchange Kits

| Product (Notes) | Version | Order Part Number† 3.5″ Disk | Exchange Available Through |
|---|---|---|---|
| **Touchscreen/150:** | | | |
| 3278 Emulation | A.01.00 | 45641-63001 | September, 1989 |
| BPI Gen. Acctg. | A.01.00 | 45455-63001 | June, 1990 |
| BPI Personal Acctg. | A.01.11 | 45459-63001 | June, 1990 |
| BPI Accts. Rec. | A.01.11 | 45456-63001 | June, 1990 |
| Charting Gallery | B.02.00 | 45513-63001 | October, 1993 |
| Condor 1/150 | A.02.11 | 45415-63002 | April, 1990 |
| Condor 3 | A.02.11 | 45416-63002 | January, 1992 |
| Condor 3* | A.02.11 | 45415-63002 | April, 1992 |
| Context MBA/150 | A.02.03 | 45481-63001 | April, 1990 |
| CorrectStar | 3.32 | 45427-63002 | September, 1992 |
| CorrectStar hard-disk upgrade | 3.32 | 45429-63002 | September, 1992 |
| CorrectStar to SpellStar | 3.32 | 45429-63001 | September, 1992 |
| Diagraph | A.03.01 | 45463-63001 | September, 1992 |
| Drawing Gallery | A.02.01 | 45411-63002 | October, 1993 |
| EtherMail | 2.1 | 45639-63001 | October, 1991 |
| EtherShare | 2.1 | 45645-63002 | October, 1991 |
| EtherShare/150 Server | 1.0 | 45649-63002 | October 1991 |
| EtherLink | 2.1 | 45844-63002 | October, 1991 |
| Gallery Picture Library Vol. II | A.01.00 | 45433-63001 | September, 1992 |
| Graphics (bar disk, text disk, pie disk, line disk, examples disk) | A.03.01 | 45410-63001 | April, 1990 |
| GraphPlan | 1.00.T2 | 45467-63001 | |
| GraphWriter | A.01.01 | 45484-63001 | May, 1991 |
| Lattice C Compiler | A.01.01 | 45452-63001 | June, 1992 |
| Lotus 1-2-3 | 1A | | January, 1992 |
| System Disk | | 45482-63001 | |
| System Disk & Backup disk | | 45482-63004 | |
| Utility | | 45482-63002 | |
| Tutorial 1&2 | | 45482-63003 | |
| Printgraph | | 45482-63005 | |

**Discontinued Software**
**Replacement Media Exchange Kits**

| Product (Notes) | Version | Order Part Number† 3.5″ Disk | Exchange Available Through |
|---|---|---|---|
| MailMerge | A.03.30 | 45401-63001 | March, 1990 |
| MemoMaker | B.01.02 | 45420-63001 | December, 1991 |
| MicroPlan | 4.04.T2 | 45465-63001 | May, 1991 |
| MicroPlan Consol. | 4.04.T2 | 45466-63001 | May, 1991 |
| MS Spell | A.01.00 | 45556-63001 | September, 1992 |
| MultiMate | 3.29 | 45424-63001 | September, 1992 |
| MultiPlan | A.01.10 | 45473-63002 | May, 1991 |
| Painter | A.01.00 | 45540-63001 | September, 1992 |
| PC Interface with HP 150 | A.01.00 | 61060-63001 | April, 1992 |
| PCF | B.01.02 | 45422-63001 | December, 1990 |
| PFS: File & Report | A.02.41 | 45488-63001 | May, 1991 |
| Picture Perfect | A.03.01 | 45462-63001 | September, 1992 |
| R:Base 4000 | 1.1 | 45545-63001 | December, 1991 |
| SpellStar | A.03.30 | 45402-63001 | March, 1990 |
| Transend COMplete | A.01.00 | 45414-63001 | May, 1991 |
| VisiCalc | B.01.02 | 45405-63004 | April, 1990 |
| **HP Vectra:** | | | |
| CAT (5.25″) | A.01.00 | 14753-61002 | September, 1993 |
| CAT (3.5″) | A.01.00 | 14753-61004 | September, 1993 |
| Exec. Spreadsheet | A.01.01 | 68332-65001 | September, 1992 |
| MS Windows Kernal | A.01.03 | 45954-63001 | November, 1993 |
| MS Windows Write/ Paint | A.01.03 | 45954-63002 | November, 1993 |
| MS Windows 2.0 Kernal | B.02.00 | | December, 1993 |
| 5.25″ | | 45954-60002 | |
| 3.5″ | | 45954-60005 | |
| MS Windows 2.0 Fonts & Utilities | B.02.00 | | December, 1993 |
| 5.25″ | | 45954-60003 | |
| 3.5″ | | 45954-60006 | |
| MS Windows 2.0 Applc 5.25″ | B.02.00 | 45954-60004 | December, 1993 |
| MultiMate | 3.29 | 68338-65001 | May, 1992 |
| MultiMate Advantage | 3.29 | 68343-65001 | May, 1992 |
| TextChart | A.02.00 | 45406-65001 | August, 1990 |

## Discontinued Software
### Replacement Media Exchange Kits

| Product (Notes) | Version | Order Part Number† 3.5" Disk | Exchange Available Through |
|---|---|---|---|
| **Portable/110:** | | | |
| DataFax | A.01.01 | 45408-63001 | December, 1990 |
| dBaseII | *A.02.41 | 45468-63001 | September, 1992 |
| PC 2622 (Reflection) | 1.0 | 82861-64001 | March, 1991 |
| Rags to Riches | | | |
| Ledger | A.01.00 | 45520-17301 | December, 1992 |
| Sales | A.01.00 | 45521-17301 | December, 1992 |
| Receivables | A.01.00 | 45522-17301 | December, 1992 |
| Payables | A.01.00 | 45523-17301 | December, 1992 |
| Reflection | 1.0 | 82861-64002 | March, 1991 |

*Revised since original release.

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## Discontinued Software
## Replacement Media Exchange Kits

| Product (Notes) | Version | Order Part Number† 3.5″ Disk | 5.25″ Disk | 8″ Disk |
|---|---|---|---|---|
| **HP 12x:** Exchange Available Through April, 1990 | | | | |
| Op Sys/Util/12x | *A.02.00 | 45900-13810 | 45900-15810 | |
| VisiCalc/12x | *A.02.01 | 45531-13800 | 45531-15800 | 45531-18800 |
| Graphics/12x | *A.01.03 | 45532-13800 | 45532-15800 | |
| Word/12x | *A.02.03 | 45533-13800 | 45533-15800 | 45533-18800 |
| Link/12x (Note 1) | A.02.00 | 45534-13800 | 45534-15800 | |
| DSN/Link/12x | A.01.01 | 45534-13810 | 45534-15810 | 45534-18810 |
| BASIC/12x | A.05.21 | 45535-13800 | 45535-15800 | 45535-18800 |
| Programming/12x | A.01.00 | 45536-13800 | 45536-15800 | 45536-18800 |
| Condor 1/12x (Note 2) | A.02.00 | 45550-13800 | 45550-15800 | 45550-18800 |
| Condor 3/12x (Note 3) | *A.02.00 | 45550-13802 | 45550-15802 | 45550-18802 |
| BPI G/A/12x | A.01.00 | 45552-13800 | 45552-15800 | 45552-18800 |
| BPI Payroll/12x | A.01.00 | 45553-13800 | 45553-15800 | |
| WordStar/12x | A.01.00 | 45560-13800 | 45560-15800 | 45560-18800 |
| SpellStar/12x | A.01.00 | 45561-13800 | 45561-15800 | 45561-18800 |
| MailMerge/12x | A.01.00 | 45562-13800 | 45562-15800 | 45562-18800 |
| MicroPlan/12x | A.01.00 | 45670-13800 | 45670-15800 | |
| MicroPlan Cons./12x | A.01.00 | 45671-13800 | 45671-15800 | |
| WordStar | 3.31 | n/a | 68345-65001 | May, 1992 |
| WordStar Professional | 3.31 | n/a | 68346-65001 | May, 1992 |

See notes on next page.

*Revised since original release.

†For each kit ordered, along with your payment submit one corresponding original master disk. This is the disk with the HP software product number and description printed on the label. Be sure to make working copies before sending your master disk.

To determine the price for a kit, contact your dealer or HP office—or call the HP telephone order number for your country. (See the "How to Order" section later in this Current Information Insert.) Orders submitted without the correct master disk cannot be accepted.

**Notes**

1—This kit is to exchange your Link/125 disk for a Link/125 disk. (If you want to *upgrade* to Series 100 DSN/Link, order part number 45534-13810 or 45534-15810.)

2—A Condor 2 disk or a Condor 1 to 2 upgrade disk may be exchanged for the Condor 2 disk.

3—A Condor 3 disk, a Condor 20-2 or 3 Upgrade disk, or a Condor 20-1 to 3 Upgrade disk may be exchanged for the Condor 3 disk.

# Mail Order Form
## for HP Personal/Desktop Computer Software Update Kits

**Use this form only for HP Personal/Desktop Computer Software Update Kits. Supplies matched to your HP Computer System can be ordered with update kits.**

Ordering instructions:

1. Print or type all requested customer information.

2. Order software update kit(s) for your HP Personal/Desktop Computer. The original disk must be sent to HP with your order for the software update kit; see instruction 7.

3. You may also order computer supplies using this form. Obtain current prices by calling toll-free 800-538-8787. In California, Alaska and Hawaii call (408) 738-4133 collect.

4. Compute state/local taxes on the total cost of items ordered (HP is required to collect taxes; their omission delays your order). If tax exempt, you must provide your tax exemption/resale number.

5. Fill in any special shipping instructions, as required. HP pays freight to U.S. addresses on mail orders, EXCEPT you will be charged extra for special expedited shipping methods; and you will be charged freight on heavy, bulky items weighing more than 30 lbs., such as furniture or printer paper.

6. Fill in credit card information or enclose cashier's check for fastest shipment. Payment by personal or company check will delay shipment up to 10 days. Make check payable to **Hewlett-Packard Co.** All orders subject to credit approval. **Do not send currency, coin, stamps or purchase orders.**

7. Before your software update kit(s) can be shipped, you must send with your order one original disk (containing the software being updated) for each update kit ordered. This is the disk with the HP software product number and description printed on the label. Be sure to make a working copy before sending the original.

8. Mail this form, along with credit card information (or check), and the original disk to:

HEWLETT-PACKARD DIRECT MARKETING
Mail Order Dept., P.O. Box 60008, Sunnyvale,CA 94088

For carriers other than U.S. Mail, the address is:

HEWLETT-PACKARD DIRECT MARKETING
Mail Order Dept., 1320 Kifer Road, Sunnyvale, CA 94086

**Thank you for your order!**

| Your Name | Phone ( ) – | Date |
|---|---|---|

Disc Size:
_____ 5.25" _____ 3.5"

| Line No. | Product Number | Description | Quantity | Unit Price | Amount |
|---|---|---|---|---|---|
| 1 | | | | . | . |
| 2 | | | | . | . |
| 3 | | | | . | . |
| 4 | | | | . | . |
| 5 | | | | . | . |

Tax Exempt? ☐ No ☐ Yes

Tax Exempt or Resale Number _____

| | |
|---|---|
| Subtotal | . |
| State/Local Taxes | . |
| **TOTAL** | . |

**Ship To**

Company _____

Attn Of _____ Bldg/Room _____

Street Address _____

City _____ State _____ Zip _____

Standard Shipping Method Is UPS Surface

Special Shipping Instructions

_____

_____

_____

**Payment Method**

☐ Purchase Order (Number _____)

☐ Check Enclosed (Payable to Hewlett-Packard Co.)

☐ Credit Card (Check one, provide all information, and sign)

☐ MasterCard ☐ [illegible] ☐ VISA

Account No. ☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐

Expiration Date ☐☐ – ☐☐

Name on Card _____

Address _____

Signature _____

Use this form for prepaid U.S. orders only



(Over)

All of the items listed in this issue, except software update/upgrade kits and HP-conducted training courses, are available from your dealer or HP:

- Your local dealer can often provide immediate delivery. (To locate a dealer, call 800/FOR-HPPC in the U.S. or contact your local HP office—ask for "Personal Computer Dealer Sales.")
- Your HP sales and service office will transmit your order to the appropriate HP distribution center.

**Ordering by Telephone from HP**

Except for systems, peripherals (such as disk drives and printers), and training courses, most items listed in this issue are also generally available by telephone (HP Direct) from Hewlett-Packard:

- Australia ..... (03) 895-2645
  (03) 895-2615
  (03) 895-2815
  (03) 895-2861
- Austria ..... (0222) 2500-614
  (0222) 2500-615
  (0222) 2500-616
- Belgium/Luxembourg ..... (02) 761 31 11
- Canada..... (800) 387-3154
  Toronto local ..... (416) 671-8383
- Denmark ..... 04 30 16 40
- Finland ..... (90) 887 2361
- France ..... (1) 69 86 17 25
- Greece ..... (01) 672 6090
- Hong Kong ..... 584 8756
- Italy ..... (02) 9236 9702
- Mexico ..... 676 7892
- Middle East
  Athens ..... (01) 6828811
- Netherlands ..... 06-0501
- Norway ..... (02) 24 60 90
- Singapore ..... 279 8824
- South Africa
  Johannesburg..... (011) 8025111
  Cape Town ..... (021) 537954
- Spain ..... 91-6374013
  91-6370011

| | |
|---|---|
| | ■ Sweden . . . . . (08) 7502400<br>■ Switzerland . . . . . (057) 31 24 90<br>■ The Netherlands . . . . . (020) 547 6606<br>■ United Kingdom . . . . . (0734) 697201<br>(0734) 441212<br>■ United States . . . . . 800-538-8787<br>Alaska, California, and Hawaii . . . 408-738-4133<br>■ West Germany . . . . . (0130) 3322<br>For countries not listed, call your local HP sales and service office. |
| **Ordering HP-Conducted Training Courses** | Hewlett-Packard provides personal computer training courses at HP customer training centers using HP-provided equipment; they can also be taught by HP at your facility using your own systems. To order, call your HP sales and service office. |
| **Ordering Software Update and Upgrade Kits** | Your original master disk must accompany an order for software update or upgrade kits. Therefore, they are available only through your local dealer or from HP by mail.<br>For ordering instructions, refer to the article "Software Exchange Kits" elsewhere in this Current Information section. |
| **HP Internal Users** | Have your purchasing department enter an I2 order on the supplying entity shown for the item on the Corporate Price List or the Parts Price List.<br>If you are ordering a software exchange kit, return the original master disk to:<br>Software Administrator/Internal Orders, Building 78/5<br>or to:<br>Hewlett-Packard<br>P.O. Box 60008<br>Sunnyvale, CA 94088<br>Attn: Software Administrator/<br>Internal Orders<br>Reference your HP internal order number on the package. |
| **HP Employees** | Check with the Employee Computer Program Coordinator in your personnel or purchasing department for ordering instructions. |

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## Ordering *HP PC Communicator* Back Issues

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

All *HP PC Communicator* back issues are available. Some of the early issues may be supplied as photocopies.

To help you decide which issues you need, the table below shows which products are covered in each issue, and when each product line was introduced. Not all issues have articles on all products.

All articles, including the Encyclopedia articles of past issues, are listed in the HP PC Communicator Master Index in the "yellow pages" of this issue.

To order back issues, check the HP Product Number in the table below, and call HP DIRECT. For the phone number nearest you, see "How to Order" in the green pages.

| Issue | Order Number | HP 120/125 | HP 150 | HP Portables | HP Vectras |
|---|---|---|---|---|---|
| 1 | 5955-3937 | X | | | |
| 2 | 5955-3943 U.S.<br>5955-3947 Intl. | X | | | |
| 3 | 5957-6213 | X | | | |
| 4 | 5957-6204 U.S.<br>5957-6214 Intl. | X | | | |
| 5 | 5957-6205 U.S.<br>5957-6215 Intl. | X | | | |
| 6 | 5957-6206 U.S.<br>5957-6216 Intl. | X | | | |
| 7 | 5957-6207 U.S.<br>5957-6217 Intl. | X | X<br>HP 150 introduced | | |
| 8 | 5957-6218 | X | X | | |
| 9 | 5957-6219 | X | X | X<br>Portable introduced | |
| 10 | 5958-0250 | X | X | X | |
| 11 | 5958-0251 | X | X | X | |
| 12 | 5958-0252 | X | X | X | |
| 13 | 5958-0253 | | X | | X<br>Vectra introduced |

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|---|---|
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| **HP Internal Users and HP Employees** | Call (415) 372-6002 in the U.S., or complete the Subscription Order Form on the next page and mail it to the address given on the form. Then request reimbursement through petty cash. The Subscription Order Form can also be requested on HPDesk from Order Communicator/HP4200/02.<br>Due to the cost of processing, please use HP purchase orders for multi-subscription orders only. |

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