
□ Special Issue:
Data Transfer
□ Vectra Bundled
Systems
For users of the Portable,
HP 12x, Touchscreen/150,
and Vectra computers
HEWLETT
PACKARD

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The HP PC Newsline

Late-breaking news on HP personal computer products

This issue of the *HP PC Communicator* is a **special data transfer issue**. The data transfer articles, which appear in the Encyclopedia section, replace the data transfer articles which appeared in the Encyclopedia section of Issues 13 and 14.

* * *

The recently released **MS-DOS 3.2** operating system is now available for the **Touchscreen/150**. The Touchscreen/150 DOS release contains those features available with the standard DOS 3.2 product plus a variety of enhancements to complement the Touchscreen/150 features:

- o Support for non-HP 3.5" disc formats from major PC vendors that have IBM format read and write capability
- o MS-DOS command line on your P.A.M. screen
- o Twelve new DOS commands
- o STORE CONFIG feature

MS-DOS 3.2 has added network and general commands such as ATTRIB, SHARE, ASSIGN, LABEL, JOIN, and SUBST--giving DOS capabilities which did not previously exist. P.A.M. enhancements have also been made. A DOS command line on the P.A.M. screen now allows you to access MS-DOS commands without leaving P.A.M. The dedicated DOS user, however, can continue to bypass P.A.M. and go directly to DOS commands.

STORE CONFIG, another added feature, allows you to store one or more PC and terminal configurations as files on disc. If your site has standardized on a particular Touchscreen II system you can store configurations as files and share them with other users. STORE CONFIG also comes in handy when the CPU battery has not been replaced in a timely manner. The lost configuration can be easily restored by retrieving the file containing the desired configuration.

The Touchscreen/150 can read and write IBM's 3 1/2" disc data files, and can format their 3 1/2" discs. This capability only requires DOS 3.2 and your HP double-sided disc drive. With DOS 3.2, the Touchscreen/150 can also format to IBM's format. The ability to read and write to either the IBM or HP format is transparent to the user. The Touchscreen/150 can automatically differentiate HP format from IBM format when either disc is inserted into the system. The user is not required to make that determination ahead of time.

MS-DOS 3.2 is compatible with all versions of the 150, i.e., 150A, Touchscreen (150B), and Touchscreen II (Rev. B firmware or greater) (150C). All software is supported with the exception of Series 100 Graphics (which is discontinued), Condor, and old versions of WordStar (Versions 3.30 3.3A, 3.3B, 3.33). If you wish to use WordStar (Version 3.34) with DOS 3.2, you can upgrade your WordStar application by purchasing HP 45400-63031 through HP's Direct Marketing Division (see the article "How to Order" in the green pages of this issue).

Two U.S. upgrade kits will be available in mid-October 1986:

- o A Firmware and Operating System Upgrade Kit (45849-63024) which requires Dealer or Customer Engineer installation
- o An Operating System Upgrade Kit (45849-63031)

Localized systems available at dates to be announced.

For more information contact your Dealer or Sales Representative.

* * *

HP 3000 users: In conjunction with the announcement of the Vectra 3000 PC and Vectra Office PC bundles which are described in the Product News section of this issue, we are introducing a terminal trade-in program. This program will allow HP 3000 customers to trade in HP (pre-Touchscreen II) or non-HP terminals and receive credit towards the purchase of a Touchscreen II PC with an HP disc drive, a Vectra 3000, or a Vectra Office. This U.S. program is effective through February 28, 1987. Different programs are running outside of the U.S.

Contact your Sales Representative for more information.

* * *

Lotus 1-2-3 Release 2.01 (HP 68340F) for the HP Vectra is now shipping. The new version is considered a maintenance release, containing several technical improvements over Release 2.0. Release 2.01 is compatible with Lotus (R) 1-2-3 (R) Release 1A and Release 2.0.

New features of Release 2.01 include:

- o Simplified installation procedure: Hard disk install is now included in First Time Installation procedure.
- o New display driver: Allows on screen graphic character display.
- o Eliminates need to adjust functions: You no longer have to make adjustments, such as changing @TODAY to @INT@NOW, or use @N with mixed formulas references when using worksheets from Release 1A.
- o File Retrieve time is faster.
- o Labels now equate to zero when used in mixed formula references. Allows for Release 1A compatibility.
- o Financial @ functions (@PMT, @PV, and @FV) now allow negative and fractional arguments.
- o Additional drivers for LaserJet Plus, HP 7440, and HP 2930. Improved LaserJet drivers generate fewer printer errors.

In addition to these features, a number of other minor technical changes have been made to improve product quality.

Upgrades are available from Lotus Development Corporation for $15.00 per copy. The offer expires on December 31, 1986. To upgrade, you need to obtain an order form and further instructions from Lotus:

- If you have already sent in the Warranty Registration Card which was included with 1-2-3, Lotus will automatically send you the order form.

- If you have not yet sent in the Warranty Registration Card, do so immediately. You will find it in the booklet entitled *Customer Assurance Plan*, inside the grey box that comes with 1-2-3. Lotus will then send the form to you.

- If you have lost the Warranty Registration Card, send a proof of purchase and the following information:

  First Name, Last Name, Middle Initial
  Title, Department, Company
  Address, City, State or Province
  Zip, Phone (home), Country (if other than USA)
  Phone (work), Computer Make, Purchase Date
  Your Signature, Name of Product (1-2-3 Release 2.0)

  To:

  Lotus Development Corporation
  ATTN: Customer Service
  55 Cambridge Parkway
  Cambridge, MA 02142

* * *

On October 1, 1986, we will discontinue distribution of Financial Calculator (HP 45423A) and the ExecuDesk System bundle (HP 45442A) for the Touchscreen/150 personal computer. ExecuDesk (HP 45444A), Executive MemoMaker (HP 45418A), Executive Card Manager (HP 45421A), and Charting Gallery (HP 45513A) will continue to be available as separate products. Watch for announcements about a new version of ExecuDesk that allows you to run Lotus 1-2-3 (Version 2.01) within the ExecuDesk environment.

Following standard HP policy, support for Financial Calculator will be available for five years beginning October 1, 1986.

* * *

HP's New QuietJet Plus Printer is an inkjet printer that offers all the features needed for personal printing--without the noise. Its extra-wide platen is capable of handling 15-inch paper, but can also handle paper as narrow as four inches.

Whatever size the form, the QuietJet Plus Printer delivers quiet, quality printing in both near-letter-quality and draft-printing speeds.

The QuietJet Plus Printer works with a full range of popular software packages.

There is a convenient key panel that allows you to access condensed draft printing and near letter-quality printing. And graphics users will appreciate its variety of resolutions and its superb high-quality graphics (up to 192 X 192 dots per inch).

For more information contact your Dealer or HP Sales Office.

* * *

The HP 82964M **Vectra Instrument-Control Bundle** is a pre-assembled, pre-tested Vectra PC system designed specifically for HP-IB computer-aided test and data acquisition. It includes a Model 45 SPU (640KB RAM, 1.2MB floppy disc drive), a second 360KB floppy disc drive, 12-inch monochrome graphics display system, serial/parallel and HP-IB interfaces, Vectra DOS (with PAM) and Vectra BASIC. BASIC I/O libraries and HP-IB printer/plotter drivers are also included. An optional 20MB hard-disc subsystem, the HP 45816A, is also available.

The system is available from your Dealer or HP Sales and Service Office.

* * *

HP's Personal Computer Software Support: To order the personal computer software support that best meets your support requirements, call HP's Support Telemarketing Center at (800) 835-HPHP (U.S.A.) or your local Sales and Service Office. All contractual services must be purchased for a minimum of three months coverage. Listed below are some of the telephone assistance products:

PC User Assistance--Vectra Model 25 (72425A+E00)
PC User Assistance--Vectra Model 35 (72435A+E00)
PC User Assistance--Vectra Model 45 (72445A+E00)
PC User Assistance--Vectra Office 1 (72475A+E00)
PC User Assistance--Vectra Office 2 (72485A+E00)
PC User Assistance--150A (45650A+E00)
PC User Assistance--Touchscreen I (45650B+E00)
PC User Assistance--150A with Hard Disc (45660A+E00)
PC User Assistance--Touchscreen MAX (45660B+E00)
PC User Assistance--Touchscreen II (45851A+E00)
PC User Assistance--Portable (45710A+E00)
PC User Assistance--Portable PLUS (45711A+E00)
HelpLine Call Certificate Packs* (35159A)

*Individual calls may also be charged to personal or company credit cards. These per-call services are available in the U.S. and Canada only.

* * *

If you have WordStar Rev. 3.3B and installed CorrectStar 3.31 with it AND IF you wish to upgrade WordStar to Rev. 3.34, then you must also order an upgrade to CorrectStar 3.32 (HP 45427-63002). For general instructions on upgrading see the article "Software Replacement Kits" in the green pages of this issue.

* * *

Now available: **The HP-IB Interface Card/Command Library (HP 82990A) and the Command Library (software only) (HP 82990E)** for Vectra, the IBM PC/XT/AT, and compatible PCs. These products supersede the HP-IB Interface Card and Command Library (HP 61062AA/BA).

New features include Direct Memory Access (DMA) I/O operations and use with all four memory models of Lattice C. It provides HP-IB access from the following languages:

Vectra BASIC
GW BASIC
MS Quick BASIC
MS Pascal
MS Compiled BASIC
MS C
Lattice C (all four memory models)

The software provides control of HP-IB and GP-IB instruments as well as printers and plotters.

Concurrent to the release of the 82990A, we are also introducing the **Command Library (HP 88500DT)** which provides support for the HP-9154A, 9134H, and 9134L disc drives and the HP 9142 tape drives. This is a software only version of the popular Disc/Tape interface and Command Library (HP 88500A).

Product Upgrade Program: If you already own the previous version of the software that came with the HP-IB Interface and Command Library (HP 61062AA/BA), a product upgrade of the Command Library (software only) is available from HP's Direct Marketing Division. The part number for the upgrade is 82990-65001, and requires proof of purchase of the old HP 61062AA/BA (either revision) disc. See the article "Software Exchange Kits" in the green pages of this issue for general upgrade instructions. For more information or to order the HP-IB Interface and/or the Command Library, contact your Dealer or Sales Representative.

* * *

Now available: Two low-cost, 136-column, 24-pin, dot-matrix **Asian workstation printers**--the HP 41063A and HP 41063B. They support Japanese, Simplified Chinese, and Traditional Chinese character printing capability.

The HP41063A is supported on HP technical computers and the HP Touchscreen/150, and can handle the Printer Command Language set. It is equipped with an HP-IB interface as a standard interface and an RS-232-C interface as an option or upgrade.

The HP 41063B is supported on the HP Vectra PC and Asian Vectra Workstation, can be used in dual mode, and can handle the ESC/P (TM) (Epson Standard Code for Printer) command set. It is equipped with a Centronics interface as standard and an RS-232 interface as an option or upgrade kit.

Contact your local Dealer or Sales and Service Office for more information.

* * *

4-5-6 World is an Independent Software Vendor for the **Touchscreen/150**. They offer a wide variety of programs (templates) that can be used with **Lotus 1-2-3** for vertical market applications, e.g. accounting and real estate, or to make 1-2-3 easier to use, e.g. training. 4-5-6 World is currently porting their top-selling templates in the IBM world to run on the Touchscreen/150. Products currently shipping for the Touchscreen/150 include: Ready to Run Accounting, Inventory Control Autoplate, Mailing List Autoplate, and Toolkit.

For more information and/or a free catalog, you can call 805-564-2424 (in California) or 800-524-5678 (outside California). 4-5-6 World's address is P.O. Box 22657, Santa Barbara, CA 93121.

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Welcome to the *HP PC Communicator*

The *HP PC Communicator* is the backbone 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 *Communicator* also lists known software problems and their solutions, and introduces new members of the HP PC family.

This publication was formerly called the *Series 100 Communicator*—the new name, *HP PC Communicator,* reflects the increased breadth of the Hewlett-Packard personal computer product line.

Subscriptions and Back Issues

In many countries, you can order *Communicator* subscriptions and back issues by telephone. For details, see the "Ordering *Communicator* Subscriptions" and "Ordering Back Issues" sections in the Current Information insert.

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*
Hewlett-Packard Company
P.O. Box 486
Sunnyvale, CA 94086 U.S.A.

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

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Vectra 3000 EGA PC

Vectra Mass Storage: New Options

Steve Wise

Hewlett-Packard introduced an array of new Vectra products on September 1. At the heart of these products is a new IBM AT-compatible Hard Disc Controller.

It is contained in the new bundled systems (see following article) as well as in the disc products described below.

- **IBM AT-Compatible Hard Disc Controller Kit (HP 45895A)**—Includes controller card, hard disc mounting bracket, cabling and documentation (all that you need to add a third party hard disc).
- **20M byte Internal Hard Disc Subsystem (HP 45896A)**—Includes AT-compatible Controller Kit, HP 45895A, above, and a 65ms average access time, half height hard disc. (Provided in the Vectra Model 50, the Vectra 3000 and the Vectra Office.)
- **40M byte Internal Hard Disc Subsystem (HP 45897A)**—Includes AT-compatible Controller Kit, HP 45895A, above, and a 40ms average access time, full height hard disc. (Provided in the Vectra Model 60.)

Note: All of the above products are based on the new hard disc controller present in the HP 45895A kit, and they will only operate in Vectras with serial number prefixes of 2623A or later.

The older hard disc controller (HP 45815A), 20M byte (HP 45816A) and 40M byte (HP 45817A) hard disc subsystems remain available. The HP 45816A provides an exceptionally high degree of ruggedness, and its compact size permits two drives (40M bytes total capacity) to be mounted in a single half height slot. In addition, the HP 45815A, HP 45816A and HP 45817A subsystems are supported in all versions of Vectra.

For more information contact your Sales Representative.

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Vectra Office

Bundled Vectra Systems Available

Steve Wise

On September 1, Hewlett-Packard introduced bundled Vectra systems. These products incorporate new hard disc subsystems that feature greater IBM AT-compatibility. The bundles ship pre-assembled, and best of all, they are priced below the sum of their components!

The following Vectra models are now available:

- **Vectra Model 50 PC (HP 72450A)**—Includes the new 20M byte, AT-compatible, hard disc subsystem (HP 45896A), a Serial/Parallel Interface Card (HP 24540A), 640K bytes of memory and a 1.2M byte flexible disc drive.
- **Vectra Model 60 PC (HP 72460A)**—Same as the Model 50, except substitute the new 40M byte AT-compatible, hard disc subsystem (HP 45897A) for the 20M byte subsystem.
- **Vectra 3000 Monochrome PC (HP 72458A)**—Same as the Model 50, above, plus the Multimode Video Adapter, monochrome monitor and MS-DOS. AdvanceLink 2392 communications software is provided at no extra charge.
- **Vectra 3000 EGA PC (HP 72459A)**—Same as the Model 50, above, plus the Enhanced Graphics Display System (EGDS) (EGA adapter and monitor) and MS-DOS. AdvanceLink 2392 communications software is provided at no extra charge.
- **Vectra Office**—Consists of a Vectra 3000 (Monochrome or EGA) and either of two powerful software bundles, a Professional Software Pack or an Assistant Software Pack that is provided at a substantial discount:

  –**Vectra Office Professional Software Pack (HP 68300F)**
  Executive MemoMaker
  Lotus 1-2-3
  Executive Card Manager
  Graphics Gallery Collection
  AdvanceMail
  HP Mouse

  –**Vectra Office Assistant Software Pack (HP 68301F)**
  AdvanceWrite III
  Lotus 1-2-3
  Executive Card Manager
  Graphics Gallery Collection
  AdvanceMail
  HP Mouse

	■ **Vectra CAD/CAE (HP 82964E)**—Includes Vectra Model 60, enhanced graphics adapter, enhanced graphics display with tilt/swivel base, high-speed (8 MHz) 80287 math coprocessor, MS-DOS. The combination of an EGA display, a fast, high-capacity disc and high-speed coprocessor are a perfect fit for most every popular CAD package, including AutoCAD, VersaCAD, P-CAD and PC Productivity's new Crossroads software. The system is also ideal for getting top performance from off-the-shelf business software like Lotus, R:Base or MS Word.
For More Information	For more information, contact your Sales Representative. (Localized bundles available at later dates to be announced.)

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Today, stand-alone PC capabilities may not be enough. Office workers need to gather, manipulate, and communicate information which may exist either inside or outside their workgroups. Easy, powerful access to the resources of a minicomputer can be equally important.

Two new products satisfying these critical needs are now available: Vectra 3000 and Vectra Office.

Vectra 3000

If you need PC-based flexibility and access to minicomputer resources, the Vectra 3000 provides an excellent solution.

Vectra 3000 is a pre-assembled complete Vectra PC workstation with AdvanceLink 2392 software. You can order a complete system (including the monitor) with just one product number. And you pay less for the bundle than for the sum price of the individual components.

You can select one of two basic models. One model has a monochrome monitor, the other has an EGA monitor—each includes popular Vectra components:

- **Monochrome Model (HP 72458A)**
  SPU with 640KB RAM
  1.2MB drive
  20MB hard disc system
  Serial/parallel card
  MS-DOS
  AdvanceLink 2392
  Multimode Adapter
  Monochrome Monitor
- **EGA Model (HP 72459A)**
  SPU with 640KB RAM
  1.2MB drive
  20MB hard disc system
  Serial/parallel card
  MS-DOS
  AdvanceLink 2392
  EGA Adapter
  EGA Monitor

Normally, putting together the separate pieces of a personal computer can be time-consuming. To make installation a snap, the pre-assembled Vectra 3000 arrives in three convenient boxes. A handy users' guide also walks you through the steps to getting the system started.

Vectra Office	Vectra Office consists of a Vectra 3000 and either of two versatile software bundles: the Professional Software Pack or the Assistant Software Pack. These software packs feature the HP mouse and all of the core applications needed for a basic office workstation—word processing, spreadsheet, graphics, data management, and communications: ■ **Vectra Office Professional Software Pack (HP 68300F)** Executive MemoMaker Lotus 1-2-3 Executive Card Manager Graphics Gallery Collection AdvanceMail HP Mouse ■ **Vectra Office Assistant Software Pack (HP 68301F)** AdvanceWrite III Lotus 1-2-3 Executive Card Manager Graphics Gallery Collection AdvanceMail HP Mouse With pre-assembled hardware, bundled software, discounted prices, and ease of ordering/ installation, you receive a valuable PC-based solution.
	For more information contact your Sales Representative. (Localized versions available at later dates to be announced.)

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Introducing Shelp for the Portable PLUS

Jane Blando

Shelp is on the way for the Portable PLUS.

It's quite simple, really. Access to a pop-up Calculator, Note Pad, Keyboard Macros, and a remote off function. Shelp, an installable device driver, provides all these capabilities from within any non-graphics based application. Designed to increase productivity with practical efficiency, Shelp is available at a single keystroke.

The algebraic calculator provides the four primary functions—add, subtract, multiply, and divide. One of the most powerful capabilities of the calculator is the ability to "playback" the current calculation into the suspended application. You will no longer need to hunt for your misplaced handheld. The Notepad might be used to keep track of frequently called telephone numbers or a list of things to do. Keyboard macros create shorthand keystrokes for commonly used strings of characters. For example, if you frequently type the words "Hewlett-Packard," you could associate that combination of keystrokes with the H key. That's all it takes.

To get your copy of Shelp, HP V7550 (for the Portable PLUS only), send payment in U.S. funds to Hewlett-Packard Co., Users' Library, 1000 NE Circle Blvd., Corvallis, OR 97330, or call (503) 757-2000. (Please reference Visa or MasterCard credit cards.) Shelp is $55.00 for orders within the U.S., and $60.50 for orders going outside the U.S.

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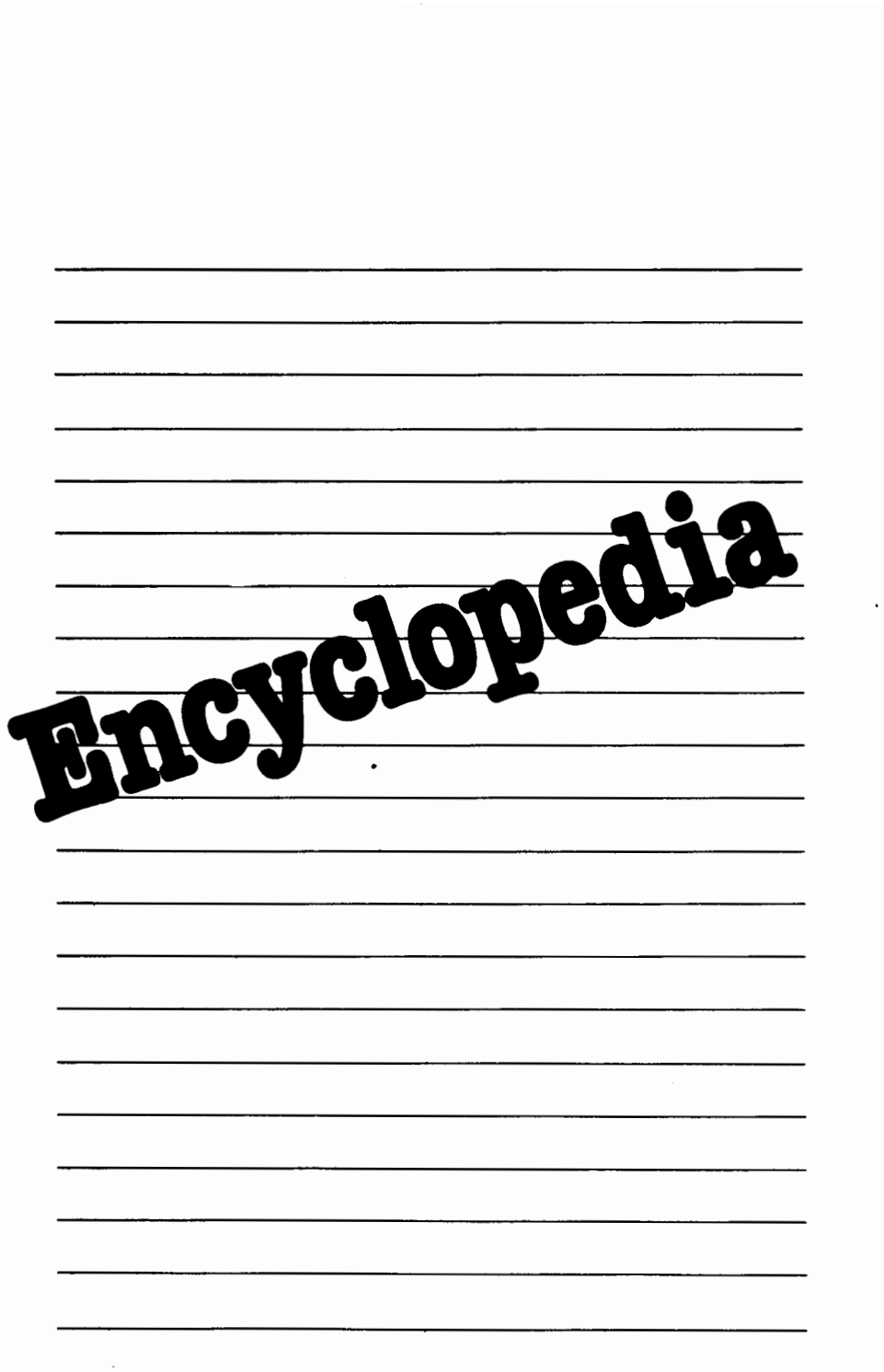
Encyclopedia

Welcome to the Encyclopedia

Welcome to the "Encyclopedia" section of the *Communicator*—bringing together all the news you need on each of the software packages and systems that you use.

Coupled with the manuals, your *Communicator* back issues and subscription provide everything you need to make the best use of your personal computer.

What's in the Encyclopedia?

- The HP PC Bugline—the information about HP PC questions, problems, and solutions too late to classify.
- The Encyclopedia Index—an index of Encyclopedia articles for all issues, listed by system.

Encyclopedia articles containing:

- Product Description—a one- or two-sentence explanation of what the product does.
- Encyclopedia Articles—a reference to any other Encyclopedia articles in previous *Communicator* issues covering this product.
- Most Frequent Questions—with answers, based on the experience of HP's Response Centers around the world.
- Software Problem Reports—a list of the major problems which have been reported.
- Manual Corrections or Updates—a list of corrections to the manuals for the product.
- Data Files—a description of the files used by the product, to aid in data transfer.
- Integration Features—a summary of any features built into the product to facilitate data transfer to other products.
- Data Transfer Procedures—specific techniques which have been discovered for data transfer to specific products.

The Encyclopedia entries are arranged so that you can remove them for insertion in your manuals or a separate binder.

Which Products are Covered?

The Encyclopedia Table of Contents, given at the front of the section, is updated in every *Communicator*... directing you to the issues containing the latest articles for each product.

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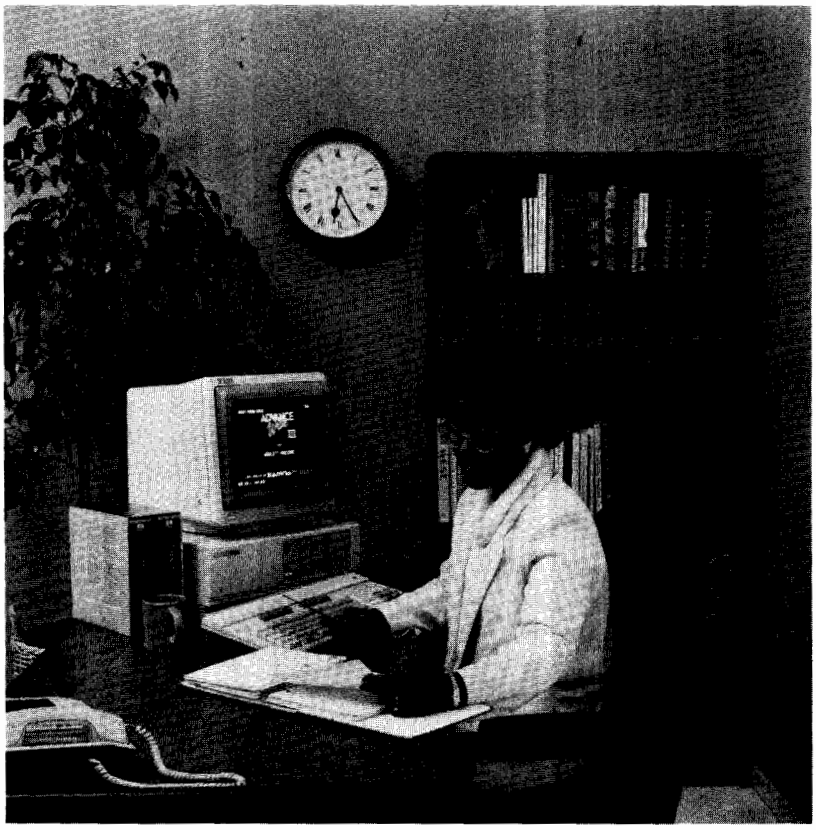

AdvanceWrite... for the Vectra PC

Encyclopedia Articles	This is the first Encyclopedia article on this product.
Product Description	AdvanceWrite, (AW) for Vectra, is a three-tiered word processing solution that actually consists of three separate products: AdvanceWrite I, II and III. AdvanceWrite I has basic word processing features; AdvanceWrite II adds more advanced features such as mail-merge and spell-checking; AdvanceWrite III adds integrated spreadsheets and the WordBase key-word file management system.
Data Files	AdvanceWrite I, II and III all can create and retrieve: AdvanceWrite formatted files ASCII files AdvanceWrite II and III can also create and retrieve: AdvanceWrite lists, each of which consists of: –A record Definition file –A Record data file .DIF files DCA files AdvanceWrite III can also create and retrieve: AdvanceWrite spreadsheets—spreadsheets are associated with AdvanceWrite documents and are not stored separately. Automatic Merge is AdvanceWrite's mail-merge facility. To merge, you will need three files: a Records file (a "list"), a Definition file, and a Standard Document file. You must create the last two in AdvanceWrite, but you can transfer in the record data from an outside program as ASCII or .DIF.
Features For Bringing Data In	The Create/Edit function of AdvanceWrite lets you name a new AdvanceWrite document to create, or you can bring in an existing AdvanceWrite document to edit. The Filing function lets you do most incoming data file conversions. Interchange allows you to bring in .DIF files; Translate allows you to bring in either ASCII or DCA files.

To bring a .DIF file into an AdvanceWrite document:

1. Use Create/Edit ([F1]) to create a new document or retrieve an old one.
2. Set tabs stops via Format ([F10]) to locate the start of each data field. Make sure an entire data record (all fields) will fit between the margins!
3. Choose Filing ([ScrLck][Break]), Interchange ([I]), DIF to AdvanceWrite ([D]).

To convert a .DIF file to an AdvanceWrite list:

1. Choose Filing ([ScrLck][Break]), Interchange ([I]), DIF to AdvanceWrite ([D])
2. Specify the .DIF file name and the names for the new AdvanceWrite records definition and data files.

To convert a .DIF file to an AdvanceWrite spreadsheet:

1. Use Create/Edit ([F1]) to create a new document or retreive an old one.
2. Choose the Spreadsheet ([+]) function and create the spreadsheet that will receive the converted DIF file.
3. Choose Filing ([ScrLck][Break]), Interchange ([I]), DIF to AdvanceWrite ([D]), and specify the .DIF file name.

To bring an ASCII file into an AdvanceWrite document:

1. Use Create/Edit ([F1]) to create a new document or retrieve an old one.
2. Choose Filing ([ScrLck][Break]), Translate ([T]), Standard ASCII to AdvanceWrite ([A]), and specify the ASCII file name. Be sure to specify YES ([Y]) to having the AdvanceWrite file look just like the ASCII file!

To convert a DCA file to an AdvanceWrite document:

1. Choose Filing ([ScrLck][Break]), Translate ([T]), DCA ([D]), DCA revisable-form to AdvanceWrite ([R]).
2. Use Create/Edit ([F1]) to retrieve the document for editing.

Features For Moving Data Out

The Save ([F3]) function lets you save the file you are editing, assign a file name and save the Scratchpad contents (or simply abandon what is on the Scratchpad).

As with bringing data into AdvanceWrite, the Filing ([ScrLck][Break]) function lets you do most outgoing data file conversions. Interchange ([I]) allows for translation to .DIF files; Translate ([T]) allows for translation to ASCII and DCA files.

The Merge ([f6]) function allows you to create and save AdvanceWrite lists which are always composed of data records files and associated form definition files.

To convert an AdvanceWrite list to a .DIF file:

1. With an empty Scratchpad, choose Filing ([ScrLck][Break]), Interchange ([I]), AdvanceWrite to DIF ([S]).
2. Specify the AdvanceWrite records-list file name, .DIF file name, and the names for the new definition and data files.

There is no way to convert an AdvanceWrite list to ASCII.

To convert an AdvanceWrite spreadsheet to a .DIF file:

1. Use the Spreadsheet ([+]) function to bring up the spreadsheet.
2. Choose Filing ([ScrLck][Break]), Interchange ([I]), AdvanceWrite to DIF ([S]), and specify the .DIF file name.
3. Enter a title for the spreadsheet in .DIF form, and select Whole spreadsheet ([W]).

There is no way to translate an AdvanceWrite spreadsheet to ASCII.

To convert an AdvanceWrite document to ASCII:

1. Choose Filing ([ScrLck][Break]), Translate ([T]), AdvanceWrite to Standard ASCII ([S]).
2. After specifying the AdvanceWrite file to translate, choose B,N,N,N.

Choose Y as the last option if your destination program will re-word-wrap the text.

Choose N as the last option if your destination program uses hard carriage returns at the end of every line. Use this option unless other stated.

To convert an AdvanceWrite document to DCA:

Choose Filing ([ScrLck][Break]), Translate ([T]), DCA ([D]), DCA Revisable-form to AdvanceWrite ([S]).

Data Transfer Procedures

SPREADSHEETS

To Executive Spreadsheet:

AW list data or spreadsheet: Convert AdvanceWrite list to .DIF. In Executive Spreadsheet, retrieve the .DIF file with Load & Store.

To Lotus 1-2-3:

In 1-2-3, save as ASCII file with .PRN extension. AW list data or spreadsheet: Convert to .DIF. Use the 1-2-3 Translate Utility to convert from .DIF to 1-2-3 (.WKS or WK1).

AW document: In 1-2-3, choose /File Import (/FI).

To Symphony:

Save as ASCII file with .PRN extension. AW list data or spreadsheet:

In Symphony, convert to .DIF. Use the Translate Utility to convert from .DIF to Symphony.

AW document: In Symphony, choose /File Import (/FI).

To Series 100 VisiCalc:

AW list data or spreadsheet: Convert to .DIF. In Series 100 Visicalc, retrieve the .DIF file with Load & Store.

To Deluxe VisiCalc/3000:

AW list data or spreadsheet: Convert to .DIF. Transfer the .DIF file to the HP 3000 with Advancelink as ASCII. In Deluxe VisiCalc/3000, retrieve the .DIF file with Load & Store.

WORD PROCESSORS

To Executive MemoMaker:

AW document: Convert document to ASCII. In EMM, bring in the file using the File Keys.

To MemoMaker:

AW document: Convert document to ASCII. In MemoMaker, bring in the file with Get Memo.

To MS Word:

AW document: Convert document to ASCII with Y as the last option, adding a .DOC extension. In MS Word, bring in the file with Transfer, Load.

To MultiMate (Touchscreen revision 3.29):

AW document: Convert document to ASCII with a .DOC extension. Use MultiMate's FILECONV utility to convert the file to MultiMate format.

To MultiMate Advantage (Vectra only):

AW list data or spreadsheet: Convert to .DIF. Use FILECONV to convert to a MultiMate file with a .DOC extension.

AW document: Convert document to ASCII with a .DOC extension. Use MultiMate's FILECONV utility to convert the file to MultiMate format.

To WordStar:

AW document: Convert document to ASCII with Y as the last option. In WordStar, bring in the file using Open Document or Open Non-Document.

To WordStar 2000:

AW document: Convert document to DCA format. In WordStar 2000, choose WordStar 2000 Conversions from the Opening Menu to convert the file.

-OR-

Convert to ASCII with Y as the last option. In WordStar 2000, bring in the file with Block, Insert a file.

To Word/150:

AW document: Convert document to ASCII. Transfer ASCII file to HP Word/3000 using AdvanceLink. Use HP Word/3000 Convert Document Menu to convert it to HP Word format. Use the installed 3000->Word/150 P.A.M. function to transfer the file down to the Touchscreen and convert it to Word/150 format.

To HP Slate:

AW document: Convert document to ASCII. Transfer the file to the HP 3000 as ASCII, and bring it into HP Slate; it will be automatically converted.

To HP Word:

AW document: Convert document to ASCII. Transfer the file to the HP 3000 as ASCII. Use HP Word/3000 Convert Document Menu to convert it to HP Word format.

To TDP/3000:

AW document: Convert document to ASCII. Transfer the file to the HP 3000 as ASCII, and bring it into TDP/3000 with the TEXT command.

GRAPHICS

To PFS:Graph:

AW list data or spreadsheet: Convert to DIF. In PFS:Graph, use the Get/Save/Remove menu to retrieve the data for graphing.

To Picture Perfect:

AW list data or spreadsheet: Convert to .DIF. In Picture Perfect, choose Load Data, USER AIDS to bring in the .DIF file.

AW Document: Convert document to ASCII. In Picture Perfect, choose Load Data.

To Series 100 Graphics:

AW list data or spreadsheet: Convert to .DIF. In Series 100 Graphics, choose Transfer Data In* on the Charts menu, to bring in the .DIF file.

AW document: Convert document to ASCII. In Series 100 Graphics, choose Transfer Data In* on the Charts menu, to bring in the ASCII file.

To DSG/3000:

AW document: Convert document to ASCII and transfer up to the HP 3000. In DSG/3000, use the Data Definition menu to bring in the file.

To HP Map:

AW document: Convert document to ASCII and transfer it up to the HP 3000. In DSG/3000, use the Select Data File menu to bring in the file.

DATABASES

To Condor:

AW document: Put document into Condor's "M" option format and convert it to ASCII. Condor will recognize this type when it READs it.

To dBase II, III:

AW document: Put document into quoted BASIC format and convert it to ASCII. Use dBase's APPEND command to add the data to a defined dataset.

To Executive Card Manager:

AW list data or spreadsheet: Convert to .DIF. In Executive Card Manager, use Copy Cardfile to Transfer In the file in DIF Format.

AW document: Put document into quoted BASIC format and convert it to ASCII. In Executive Card Manager, use Copy Cardfile to Transfer In the file in BASIC Format.

To R:BASE 4000:

AW list data or spreadsheet: Convert to .DIF. In R:BASE, use the LOAD... AS DIF command to append the data to a defined table.

AW document: Put document into quoted BASIC format and convert it to ASCII. In R:BASE, do a LOAD. . .AS ASCII to append the data to a defined table.

To R:BASE 5000:

AW list data or spreadsheet: Convert to .DIF. Use the R:BASE FileGateway utility to append data to an existing table.

AW document: Convert document to ASCII as delimited or fixed field. Use the R:BASE FileGateway utility to append the data to an existing table.

Note: To use these procedures, you need to be an experienced user of both software packages involved in the data transfer. You should also be aware that these procedures are *not* supported by Hewlett-Packard. They were developed to work with existing products—not included in the original product designs. These procedures may not work under all circumstances or with all version combinations.

Please send your additions or updates for this article to the *Communicator* editor—so that we may share them with other users in future issues.

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Charting Gallery... for the Touchscreen/150 and HP Vectra

Encyclopedia Articles	This is the third Encyclopedia article on this product.
Product Description	Charting Gallery is a data charting application, available on the Touchscreen/150 and Vectra/IBM PC, that lets you create quality pie, bar, line, and scattergram charts. Charts can be emphasized with large or bold text, along with textual or line annotations. They can be plotted to many graphics plotters printers, including HP and non-HP printers. Charting Gallery is a follow-on to the original Series 100 Graphics product.
Data Files	Charting Gallery stores a saved chart <name> in two files (Roman8): <name>.GPH, a chart description file <name>.GPD, a binary data file The Vectra and Touchscreen chart files are compatible, with the limitation that Vectra chart may contain at most five data ranges with a maximum of 64 data points per range. Charting Gallery can also save a chart as: <name>.GAL, a Gallery picture file (Roman8 on Touchscreen and Vectra) Vectra and Touchscreen picture files are compatible. Charting Gallery retrieves the following (Roman8 on Touchscreen, IBM-8 on the Vectra): -data from a DIF data file -data from an ASCII data file, also called print file, local transfer file, quoted BASIC file -graph from a Lotus/Symphony Worksheet, <name>.WKS, .WK1, .WRK, .WR1 (Vectra version only)
Features For Bringing Data In	The Get and Save function of Charting Gallery lets you read in data from DIF and ASCII files, with these limitations: Data must be in columnar format with no blank lines (no blank columns for DIF files). For ASCII data, blanks or commas are delimiters between columns; no non-numeric symbols (e.g. %) for numeric data. Data must be oriented so that X-axis data (textual or numeric) is in the first column, and the next ten columns (five for the Touchscreen version) contain numeric data for Y-axis variables; if first one or two rows are textual, they are treated as legends.

To bring in data from a DIF or ASCII print file:

1. Choose the chart type and start the appropriate program (Pie, Bar or Line).
2. On the Get and Save menu specify the desired file name (including file extension or '.' if none); press Get Data.
3. On the Data menu, view retrieved data.
4. Continue using Charting Gallery to design chart using retrieved data.

The Get Wrksheet function of Charting Gallery (Vectra version only) lets you specify a graph within a Lotus/Symphony worksheet to bring into Charting Gallery; data as well as titling and axis information is retrieved. From there the data and chart can be edited just as if it had been entered manually. For Touchscreen users, this Lotus integration is provided as a separate utility: the Worksheet Connection.

Features For Moving Data Out

The Save Picture function lets you save a chart as a picture, to be used in Drawing Gallery or Executive MemoMaker. A picture can also be converted to an HP 3000 figure (for use in HP Draw, TDP, etc.) using HP Graphics Curator/3000.

Data Transfer Procedures

WORD PROCESSORS

To Executive MemoMaker:

On the Get and Save menu, specify a picture file name and press Save Picture to store the chart in the picture format. Bring the picture into Executive MemoMaker using the Picture Keys.

To HP Word:

On the Get and Save menu, specify a picture file name and press Save Picture (to store the chart in the picture format). Next use AdvanceLink to upload the picture (include file extension .GAL) to the HP 3000, specifying an 8-bit binary transfer. Then use HP Graphics Curator/3000 to convert the picture to a figure within a figure file. Finally, include the figure (representing the original chart) in a document using the Figure Space feature.

To TDP/3000:

On the Get and Save menu, specify a picture file name and press Save Picture (to store the chart in the picture format). Next use AdvanceLink to upload the picture (include file extension .GAL) to the HP 3000, specifying an 8-bit binary transfer. Then use HP Graphics Curator/3000 to convert the picture to a figure within a figure file. Finally, include the figure (representing the original chart) in a document using the command: illustration figfile:figname #lines.

GRAPHICS

To Drawing Gallery:

On the Get and Save menu, specify a picture file name and press Save Picture (to store the chart in the picture format.) Include the picture in your drawing using the File Keys to Get A Picture or Add A Picture. From there you can modify any part of the chart (e.g. titles, bar colors, legend placement, etc.)

To HP Draw:

On the Get and Save menu, specify a picture file name and press Save Picture to store the chart in the picture format. Next use AdvanceLink to upload the picture (with file extension .GAL) to the HP 3000, specifying an 8-bit binary transfer. Then use HP Graphics Curator/3000 to convert the picture to a figure. Finally, include the figure (representing the original chart) in a drawing using the Figure function keys. Note that you can adjust the figure (originally a chart) from within HP Draw by scaling, rotating, or stretching the chart as a whole; you cannot modify individual objects within the chart.

To HP Map:

Not practical—however, to use a chart as a marker on an HP Map dot map, first follow the steps for Charting Gallery to HP Draw for converting the chart to a figure; then use the Define Markers menu in HP Map to specify the figure as a marker.

Note: To use these procedures, you need to be an experienced user of both software packages involved in the data transfer. You should also be aware that these procedures are *not* supported by Hewlett-Packard. They were developed to work with existing products—not included in original product designs. These procedures may not work under all circumstances or with all version combinations.

Please send your additions or updates for this article to the *Communicator* editor—so that we may share them with other users in future issues.

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Condor... for the Touchscreen/150 and Vectra

Encyclopedia Articles	This is the third Encyclopedia article on this product.
Product Description	Condor is a relational database application available for both the Touchscreen and Vectra from Condor Computer Corporation. There are two products of interest in the Condor product line, Condor 1 and Condor 3. Condor 1 provides the capabilities to build, maintain, and print with single databases. Condor 3 provides all of Condor 1 with the addition of a report writing facility and commands to manipulate multiple datasets.
Data Files	Condor stores each dataset named <name> in three files (Roman-8 on Touchscreen and IBM-8 on Vectra) for product specific uses and can have an optional index file if the dataset is indexed. There may also be a report file that stores the report format if you have used the Report Writer. <name>.FRM, form file format <name>.DEF, field definitions <name>.DAT, actual data file <name>.IDX, index file (optional) <name>.RPT, report file (optional) Condor can READ and WRITE six different types of file formats for the purpose of importing and exporting data to other applications (Roman-8 on Touchscreen, IBM-8 on Vectra). A detailed description of each of the six file formats is included in the "Moving Data Out" section below. Of the six, the BASIC format (B option) is the most useful.
Features For Bringing Data In	The READ command in Condor lets you read in data from six different types of ASCII files. Condor automatically detects which file format the file is in when it tries to read it. The dataset into which you are going to read the data file must already exist. Refer to the "Moving Data Out" section below for a description of the six file formats. It should be noted that Condor requires a CTRL-Z as an end of file mark in any file that it reads from another source. For those files that do not have a CTRL-Z as an EOF mark, it is a simple matter to put one there. From the MS-DOS Commands prompt type: COPY NAME.EXT + CON NEWNAME.EXT [Return] [CTRL] Z [Return]

This procedure will take the file named NAME.EXT, put a CTRL-Z at the end of the file and rename the file NEWNAME.EXT.

Features For Moving Data Out

The WRITE function of Condor lets you write out data in one of six different ASCII file formats. The BASIC (B option) format is the most useful because there are many different applications that can deal with data in this type of format.

Some applications, particularly the databases, are sensitive to the type of data each data field represents. The usual distinction is alphanumeric vs. straight numeric. You may need to know this information to complete the data transfer between Condor and some other application. This information is available through the Define <dataset> command where <dataset> is the dataset of interest. Specify D (for Describe) when asked by Condor to choose an option.

Default Format—(No option)

Format produces a continuous character stream. Each field occupies the same number of bytes in the file as the length of its data entry field on the dataset form. Numeric fields are right-justified. No separator characters exist between fields. No separator characters exist between records.

Abridged Format—"A" Option

Format produces a variable-length record. Fields occupy only as many bytes as required to hold the data; leading and trailing blanks are truncated. Fields are separated by <Tab> characters (HEX 09). Records are separated by a <CR> character.

BASIC Format—"B" Option

Also known as the "quoted basic" format. Format produces a variable-length record. Fields occupy only as many bytes as required to contain the data; leading and trailing blanks are truncated. Fields interpreted as ASCII strings are enclosed in quotation marks ("). Fields are separated by commas. Records are separated by <CR> <LF> characters.

Graphics Format—"G" Option

Format produces a fixed-length record. Each field occupies the same number of bytes in the file as the length of its data entry field on the dataset form. Numeric data is right-justified. Fields are separated by two spaces. Records are separated by <CR> <LF> characters.

Maillist Form–"M" Option

Format produces a variable length record. Each field occupies the same number of bytes in the file as the length of its data entry field on the dataset form. Numeric data is right-justified. Fields are separated by <CR> <LF>. Records are separated by an additional <CR> <LF>.

RPG Format–"R" Option

Format produces a fixed-length record. Each field occupies the same number of bytes in the file as the length of its data entry field on the dataset form. Numeric data is right-justified. No separator characters exist between fields. Records are separated by <CR> <LF>.

Data Transfer Procedures

SPREADSHEETS

To Executive Spreadsheet:

Not directly possible. You can use HP Access to convert the Condor dataset (or some subset) to DIF format that can then be read by Executive Spreadsheet.

To Lotus 1-2-3:

Use the "B" option of the Condor WRITE command. 1-2-3 requires that the data file created by Condor have an extension of .PRN. To import the data into 1-2-3, use the /FILE IMPORT command and specify the Numbers format. This causes each numeric data item to be placed in a separate cell and each alphanumeric item to be left-aligned. Lotus 1-2-3 places successive numbers and labels from the same line of the data file in successive columns of the same row of the current worksheet. Data from the next input line is placed in the next row of the worksheet, continuing until the data file has been completely read.

To Symphony:

Same as Lotus 1-2-3.

To Series 100 VisiCalc:

Not directly possible. Can use HP Access to convert the Condor database to a DIF format which Series 100 VisiCalc can read.

To Deluxe VisiCalc/3000:

Not directly possible. You can use HP Access to convert the Condor database to DIF format, use AdvanceLink to transfer the file to the HP 3000, and bring it into Deluxe VisiCalc/3000.

WORD PROCESSORS

Most data integration between a word processor and Condor would be for the generation of mass mailings. This section presents data integration with this in mind. For the entry of Condor data directly into the body of text, it is possible to generate a straight ASCII file through the Condor report facility or by using the "G" or the "M" option of the WRITE function. As long as the particular word processor can accept ASCII text directly, the ASCII file can be brought in and merged with the text contents although some rearranging of the merged data may be necessary.

AdvanceWrite:

Not directly possible. AdvanceWrite wants to see the imported file in DIF file format for use in converting to an AdvanceWrite Record File. You can generate a DIF file from a Condor database directly through the use of HP Access. Reading this DIF file in and converting it to the AdvanceWrite Record or text format is done with the AdvanceWrite Interchange command.

To MS Word:

WRITE out the database using the "B" option if you want to use the data with the Print Merge function of MS Word. MS Word allows the user to specify the use of a data field from within the MS Word text by data field name. Telling MS Word what position in the data file corresponds to which data field name is accomplished by putting a header line at the top of the data file. See the MS Word manual for more details.

To MultiMate (Touchscreen revision 3.29):

Not practical. MultiMate 3.29 requires that each data field be preceded by the data field name used in the main MultiMate document. Unless you have built your original database with this in mind, there will be a lot of extra typing involved in getting the data field names incorporated into the data file generated from the Condor database.

To MultiMate Advantage (Vectra only):

WRITE out the database using the "B" option. MultiMate Advantage can read this file in directly as a Sequential Data File for use with its form letter function.

To WordStar:

WRITE out the database using the Basic "B" option. MailMerge can directly read this format.

To WordStar 2000:

Same as WordStar.

To HP Word:

WRITE out the dataset using the Condor "M" option. HP Word can read this in for use with user defined variables. It will be necessary to add a single record in the front of the data file that lists the data field names, each on a separate line, in the order they appear in this data file. See the HP Word documentation for more information.

To TDP/3000:

Not practical for mass mailings. Can be done using the "M" option of the Condor WRITE command. The blank line separating each record in this file must be removed for the mass mailing feature of TDP/3000 to work correctly.

GRAPHICS

To Charting Gallery:

WRITE the data out of Condor using the "G" option. Charting Gallery can directly read in the data through the Get and Save function. There can be up to 640 rows of data plotted for bar and line charts. Pie charts can also have up to 640 rows of data, but only 16 rows can be displayed at a time.

To Series 100 Graphics:

You can write out the data using the "G" option. The first column will be used for the labels, while the next one to five columns can be used for data. There can be up to 64 rows of data plotted for bar and line charts. Pie charts can handle only 16 rows of data.

To DSG/3000:

WRITE out the database using the "B" option. Use AdvanceLink to transfer the file as ASCII to the HP 3000. In DSG/3000 you will need to fill in the Data Definition Menu found in the Create Chart level of DSG/3000. The data coming into DSG/3000 is considered to be in free form. One limitation of DSG/3000 is that the maximum record length is 512 bytes, half the size of Condor's maximum record length.

To HP EasyChart:

WRITE out the database using the Basic "B" option. Use AdvanceLink to move the file to the HP 3000 as an ASCII file. Run the MAKESD.PUB.SYS utility on the HP 3000 to convert the quoted basic file to a self describing file (SD) that HP EasyChart can read in. Finally read in the file to HP EasyChart by specifying the Data File softkey under the Create Chart softkey. You will have to toggle through two sets of softkeys when you enter the Create Chart level by selecting the Other Keys softkey.

There is a limitation in HP EasyChart that the labels can only be up to 12 characters in length and numbers can only be up to 11 digits long. In addition, the MAKESD utility cannot handle numbers that use commas as thousands delimiters as the utility uses the commas to delimit the different fields in each record.

DATABASES

To dBase II, III:

The target database in dBase II or III must be built before importing Condor data. WRITE out the database in Condor using the "B" option. This format can be directly read in by both dBase II and III through the DELIMITED option of the APPEND command.

To Executive Card Manager:

The target database in Executive Card Manager must be built before importing Condor data. WRITE out the database in Condor using the "B" option. Executive Card Manager can read this directly in with BASIC format set in the Transfer In function under Copy Cardfile.

To Personal Card File:

The target database in Personal Card File must be built before importing Condor data. WRITE out the database in Condor using the "B" option. Personal Card File can read this directly in through the Transfer In function under Copy Cardfile.

To R:BASE 4000:

The target database in R:BASE 4000 must be built before importing Condor data. WRITE out the database in Condor using the Basic "B" option. Read the file into the previously defined R:BASE 4000 database using the LOAD command. For example, if the target database is named SAMPLE N and the data file is named TRANSFER.DAT, the command syntax would be:

LOAD SAMPLE FROM TRANSFER.DAT AS ASCII

The AS ASCII specification is important so that each entire record will be read in. If it is not there, R:BASE 4000 will truncate the incoming records in the data file to 80 characters.

To R:BASE 5000:

The target database in R:BASE 5000 must be built before importing Condor data. WRITE out the database in Condor using the Basic "B" option. Use the FileGateway in R:BASE 5000 to convert the basic file to an R:BASE 5000 directly by specifying the "ASCII file with data fields separated by delimiters" as the file type. When asked for the delimiter, specify "," (comma).

Note: To use these procedures, you need to be an experienced user of both software packages involved in the data transfer. You should also be aware that these procedures are *not* supported by Hewlett-Packard. They were developed to work with existing products—not included in the original product designs. These procedures may not work under all circumstances or with all version combinations.

Please send your additions or updates for this article to the *Communicator* editor—so that we may share them with other users in future issues.

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dBase II ... for the Touchscreen/150 and Vectra

Encyclopedia Articles	This is the third Encyclopedia article on this product.
Product Description	dBase II is a relational database application available for the Touchscreen. It is also available for Vectra but not directly through HP nor is it supported by HP. dBase II is the most widely distributed PC database application. While it can manipulate multiple datasets and produce reports, dBase's power is in its programming language-like command set.
Data Files	dBase II stores each dataset named <name> in one file (Roman-8 on Touchscreen and IBM-8 on Vectra) for product specific uses: <name>.DBF, data structure and actual data file <name>.NDX, index file (optional) <name>.FRM, report file (optional) dBase II can COPY (export) and APPEND (import) in two different ASCII formats for the purpose of importing and exporting data to other applications (Roman-8 on Touchscreen, IBM-8 on Vectra). A description for both of the file formats is included in the "Moving Data Out" section below.
Features For Bringing Data In	The APPEND command in dBase II lets you read in data to a predefined dataset from one of two different types of ASCII files. dBase II automatically detects which file format the file is in when it reads it. Refer to the "Moving Data Out" section below for a description of the two file formats.
Features For Moving Data Out	The COPY function of dBase II lets you write out data in one of two different ASCII file formats. The DELIMITED format is the most useful because there are many different applications that can deal with data in this type of format. Some applications, particularly the databases, are sensitive to the type of data each data field represents. The usual distinction is alphanumeric vs. straight numeric. You may need to know this information to complete the data transfer between dBase II and some other application. This information is available through the LIST'STRUCTURE command where the dataset is reported on is the one currently in use (via the USE command).

System Data Format—"SDF" option

Format produces a fixed-length record. Each field occupies the same number of bytes in the file as the length of its data entry field on the dataset form. Numeric data is right-justified.

DELIMITED Format—"DELIMITED" Option

Also known as the "basic" or "quoted basic" format.

Format produces a variable-length record. Fields occupy only as many bytes as required to contain the data; leading and trailing blanks are truncated. Fields interpreted as ASCII strings are enclosed in quotation marks ("). Fields are separated by commas. Other separators can be used by specifying DELIMITED WITH <delimiter> option, where <delimiter> is the delimiter desired. Records are separated by <CR> <LF> characters.

Data Transfers Procedures

SPREADSHEETS

To Executive Spreadsheet:

Not directly possible. You can use HP Access to convert the dBase II dataset (or some subset) to DIF format that can then be read by Executive Spreadsheet.

To Lotus 1-2-3:

Lotus 1-2-3 has a Translate Utility that will convert the dBase II .DBF file directly into the 1-2-3 format.

To Symphony:

Same as Lotus 1-2-3.

To Series 100 VisiCalc:

Not directly possible. You can use HP Access to convert the dBase II database to a DIF format which Series 100 VisiCalc can read.

To Deluxe VisiCalc/3000:

Not directly possible. You can use HP Access to convert the dBase II database to DIF format, then use AdvanceLink to transfer the file to the HP 3000, and finally bring it into Deluxe VisiCalc/3000.

WORD PROCESSORS

Most data integration between a word processor and dBase II would be for the generation of mass mailings. This section presents data integration with this in mind. For the entry of dBase II data directly into the body of text, it is possible to generate a straight ASCII file through the dBase II report facility. As long as the particular word processor can accept ASCII text directly the ASCII file can be brought in and merged with the text contents.

To AdvanceWrite:

Not directly possible for the "mailmerge" function. AdvanceWrite wants to see the imported file in DIF file format for use in converting to an AdvanceWrite Record File. You can generate a DIF file from a dBase II database directly through the use of HP Access. Reading this DIF file in and converting it to the AdvanceWrite Record or text format is done with the AdvanceWrite Interchange command.

To MS Word:

COPY out the database using the "DELIMITED" option if you want to use the data with the Print Merge function of MS Word. MS Word allows the user to specify the use of a data field from within the MS Word text by data field name. Telling MS Word what position in the data file corresponds to which data field name is accomplished by putting a header line at the top of the data file. See the MS Word manual for more details.

To MultiMate (Touchscreen revision 3.29):

Not practical. MultiMate 3.29 requires that each data field be preceded by the data field name used in the main MultiMate document. Unless you have built your original database with this in mind, there will be a lot of extra typing involved in getting the data field names incorporated into the data file generated from the dBase II database.

To MultiMate Advantage (Vectra only):

COPY out the database using the "DELIMITED" option. MultiMate Advantage can read this file in directly as a Sequential Data File for use with its form letter function.

To WordStar:

COPY out the database using the "DELIMITED" option. MailMerge can directly read this format.

To WordStar 2000:

Same as WordStar.

GRAPHICS

To Charting Gallery:

You can write the data out of dBase II using the "DELIMITED" option. Charting Gallery can directly read in the data through the Get and Save function.

A small amount of editing of the data will have to be performed since the DELIMITED format places quotes around text items that the Charting Gallery does not remove when the data is moved into the "labels" column.

To Series 100 Graphics:

You can write out the dBase II data using the "DELIMITED" option. The first column will be used for the labels, while the next one to five columns can be used for data. There can be up to 64 rows of data plotted for bar and line charts. Pie charts can have only 16 rows of data.

A small amount of editing of the data will have to be performed since the DELIMITED format places quotes around text items that the Series 100 Graphics does not remove when the data is moved into the "labels" column.

To DSG/3000:

COPY out the database using the "DELIMITED" option. Use AdvanceLink to transfer the file as ASCII to the HP 3000. In DSG/3000 you will need to fill in the Data Definition Menu found in the Create Chart level of DSG/3000. The data coming into DSG/3000 is considered to be in free form. One limitation of DSG/3000 is that the maximum record length is 512 bytes, less than the 1000 bytes that a dBase II record can contain.

To HP EasyChart:

COPY out the database using the Basic "DELIMITED" option. Use AdvanceLink to move the file to the HP 3000 as an ASCII file. Run the MAKESD.PUB.SYS utility on the HP 3000 to convert the quoted basic file to a self describing file (SD) that HP EasyChart can read in. Finally read in the file to HP EasyChart by specifying the Data File softkey under the Create Chart softkey. You will have to toggle through two sets of softkeys when you enter the Create Chart level by selecting the Other Keys softkey.

There is a limitation in HP EasyChart that the labels can only be up to 12 characters in length and numbers can only be up to 11 digits long. In addition, the MAKESD utility cannot handle numbers that use commas as thousands delimiters as the utility uses the commas to delimit the different fields in each record.

DATABASES

To Condor:

The target database in Condor must be built before importing dBase II data. COPY out the database in dBase II using the DELIMITED WITH " option. Note that it is important to specify the WITH " (includes the ") since dBase II will use a single quote (') as a delimiter as a default. Condor will not accept the single quote as a delimiter. This format can be directly read in by Condor through the READ command.

To Executive Card Manager:

The target database in Executive Card Manager must be built before importing dBase II data. COPY out the database in dBase II using the "DELIMITED" option. Executive Card Manager can read this directly in with BASIC format set in the Transfer In function under Copy Cardfile.

To Personal Card File:

The target database in Personal Card File must be built before importing dBase II data. COPY out the database in Condor using the "DELIMITED" option. Personal Card File can read this directly in through the Transfer In function under Copy Cardfile.

To R:BASE 4000:

The target database in R:BASE 4000 must be built before importing dBase II data. COPY out the database in dBase II using the "DELIMITED" option. Read the file into the previously defined R:BASE 4000 database using the LOAD command. For example, if the target database is named SAMPLE and the data file is named TRANSFER.TXT, the command syntax would be:

```
LOAD SAMPLE FROM TRANSFER.TXT AS ASCII
```

The "AS ASCII" specification is important so that each entire record will be read in. If it is not there, R:BASE 4000 will truncate the incoming records in the data file to 80 characters.

To R:BASE 5000:

The target database in R:BASE 5000 must be built before importing dBase II data. COPY out the database in dBase II using the "DELIMITED" option. Use the FileGateway in R:BASE 5000 to convert the basic file to an R:BASE 5000 directly by specifying the "ASCII file with data fields separated by delimiters" as the file type. When asked for the delimiter, specify "," (comma).

Note: To use these procedures, you need to be an experienced user of both software packages involved in the data transfer. You should also be aware that these procedures are *not* supported by Hewlett-Packard. They were developed to work with existing products—not included in the original product designs. These procedures may not work under all circumstances or with all version combinations.

Please send your additions or updates for this article to the *Communicator* editor—so that we may share them with other users in future issues.

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Deluxe VisiCalc. . .for the Touchscreen/150

Encyclopedia Articles	This is the second Encylopedia article on this product.
Product Description	A popular spreadsheet application for the Touchscreen, Deluxe VisiCalc is a row column manipulator that allows financial planners to do "what if" scenarios. Deluxe VisiCalc is the same as Executive Spreadsheet, which runs on the Vectra, except for some very minor changes not related to integration. To find out how to transfer files FROM other applications TO Deluxe VisiCalc, refer to the paragraph called "to Executive Spreadsheet" within each application's "Procedures" section. The integration process is identical, except that you need to move the files to your Touchscreen in order to bring them into Deluxe VisiCalc.
Data Files	Deluxe VisiCalc normally produces a binary .VC file, which contains all the constants, variables, and equations that allow Deluxe VisiCalc to reconstruct the spreadsheet every time you load it. Deluxe VisiCalc can also save files in these formats: DIF ASCII Deluxe VisiCalc can retrieve DIF files as well as .VC files.
Features for Bringing Data In	To load a DIF file into Deluxe VisiCalc, press the Load and Store softkey, then Load Data. Deluxe VisiCalc prompts you for the information it needs. When asked for ROW or COLUMN orientation, type R or C depending on whether the DIF file was saved in ROW or COLUMN format.
Features for Moving Data Out	To save an ASCII file from Deluxe VisiCalc, press Print Sheet, then Print to File. Deluxe VisiCalc prompts you for the information it needs to save your file. Deluxe VisiCalc will add the .PRN extension to your file name. To save a DIF file from Deluxe VisiCalc, (1) press Load and Store, then Store Data, or (2) type /S#S. Deluxe VisiCalc prompts you for the information it needs to save your file. You can indicate Row or Column orientation, depending on what the other program needs.

Data Transfer Procedures

SPREADSHEETS

To Deluxe VisiCalc/3000:

Save your spreadsheet in the standard .VC format. Transfer the file to the HP 3000 using AdvanceLink, binary format. You can load the file into Deluxe VisiCalc/3000 without any conversion.

To Executive Spreadsheet:

Save your spreadsheet in the standard .VC format. You can load the file into Executive Spreadsheet without any conversion.

To Lotus 1-2-3:

Save your spreadsheet in the standard VisiCalc .VC format. In 1-2-3, use the Translate Utility to convert to 1-2-3 file format.

To Symphony:

Save your spreadsheet in the standard VisiCalc .VC format. In Symphony, use the Translate Utility to convert to Symphony file format.

To Series 100 VisiCalc:

Save your spreadsheet in the standard .VC format. You can load the file into Series 100 VisiCalc without any conversion.

WORD PROCESSORS

To AdvanceWrite I:

Save the spreadsheet in ASCII format by (1) pressing the Print Sheet, then Print to File softkeys, or (2) using the /PF command. Bring the file into your AdvanceWrite document using Filing([ScrLck][Break]), Translate ([T]), Standard ASCII to AdvanceWrite ([A]), and specify the ASCII file name.

To AdvanceWrite II or III:

Save your spreadsheet in DIF format by (1) pressing Load and Store, then Store Data, or (2) using the /S#S command. You can bring the DIF file into either a document or a list, as explained in the AdvanceWrite article in this issue.

To Executive MemoMaker:

Save your spreadsheet in ASCII format by (1) pressing the Print Sheet, then Print to file softkeys, or (2) using the /PF command. In EMM, load the file by pressing File Keys, then Get Memo, then ASCII File so that the asterisk (*) appears in the ASCII File* softkey.

To MemoMaker:

Same as Executive MemoMaker. Use Get Memo; there is no ASCII File option, but the file will be read in successfully.

To MS Word:

Save your spreadsheet in ASCII format by (1) pressing the Print Sheet, then Print to File softkeys, or (2) using the /PF command. When you name your file, give it a .DOC extension. In MS Word, bring in the file with Transfer, Load.

To MultiMate:

Save your spreadsheet in DIF format by (1) pressing Load and Store, then Store Data, or (2) using the /S#S command. You can specify either ROW or COLUMN format, remember what you chose because MultiMate will ask for it. In MultiMate, convert the file to MultiMate's .DOC format using the File Conversion utility.

To WordStar:

Same as WordStar Professional.

To WordStar Professional:

Save your spreadsheet in ASCII format by (1) pressing the Print Sheet, then Print to File softkeys, or (2) using the /PF command. In WordStar, press Open Non-Document (Touchscreen) or [N] (Vectra) to load the file.

To WordStar 2000:

Save your spreadsheet in ASCII format by (1) pressing the Print Sheet, then Print to File softkeys, or (2) using the /PF command. In WordStar 2000, use the Block Insert command to load the file.

To Word/150:

This is only possible via the HP Word/3000 converting utility. To transfer the file into Word/150, refer to the Word/150 article in this issue.

To HP Slate:

Save your spreadsheet in ASCII format by (1) pressing the Print Sheet, then Print to File softkeys, or (2) using the /PF command. Transfer the file to the HP 3000 using AdvanceLink, ASCII format. HP Slate will automatically convert the file as you bring it in.

To HP Word:

Save your spreadsheet in ASCII format by (1) pressing the Print Sheet, then Print to File softkeys, or (2) using the /PF command. Transfer the file to the HP 3000 using AdvanceLink, ASCII format. In HP Word, invoke the built-in converter to translate to HP Word format.

To TDP/3000:

Save your spreadsheet in ASCII format by (1) pressing the Print Sheet, then Print to File softkeys, or (2) using the /PF command. Transfer the file to the HP 3000 using AdvanceLink, ASCII format. TDP can read the file as is. Note that you may need to add TDP formatting commands.

GRAPHICS

To Charting Gallery:

Save your spreadsheet in DIF format by (1) pressing Load and Store, then Store Data, or (2) by using the /S#S command. In Charting Gallery, get the data by first pressing Get and Save, then typing the filename, then Get Data.

To PFS:Graph:

Save your spreadsheet in DIF format by (1) pressing Load and Store, then Store Data, or (2) by using the /S#S command. In PFS:Graph, go to the /Get/Save/Remove menu to get your file.

To Picture Perfect:

Save your spreadsheet in DIF format by (1) pressing Load and Store, then Store Data, or (2) by using the /S#S command. In Picture Perfect, get the file by pressing USER AIDS, then Load Data.

To Series 100 Graphics:

Save your spreadsheet in DIF format by (1) pressing Load and Store, then Store Data, or (2) by using the /S#S command. In Series 100 Graphics, on the Charts menu, specify your file name, set Transfer Data In,* and then press Data to get your file.

To DSG/3000:

Save all or part of your spreadsheet in ASCII format by (1) pressing the Print Sheet, then Print to file softkeys, or (2) using the /PF command. The data you save must have no variable labels, column headings, special numeric formats, etc.

Using a word processor or MS-DOS, look at your ASCII file and note the length of each field and the record length for future reference. Use AdvanceLink to transfer your file to the HP 3000 in ASCII format. In DSG/3000 you will need to fill in the Data Definition menu found in the Create Chart level of DSG/3000. The data coming into DSG/3000 is considered to be in fixed form; fill in the menu using the information your wrote down.

To HP Map:

Save all or part of your spreadsheet in ASCII format by (1) pressing the Print Sheet, then Print to File softkeys, or (2) using the /PF command. Note that your file must contain only zone/place names and their corresponding data value fields, on record per row. Using a word processor or MS-DOS, look at your ASCII file and note the length of each field and the record length for future reference. Use AdvanceLink to transfer your file to the HP 3000 in ASCII format. In HP Map, go to the Select Data File menu to get the file. Your file is in fixed form, use the information you wrote down to fill in the menu.

DATABASES

To Condor:

Save all or part of your spreadsheet in ASCII format by (1) pressing the Print Sheet, then Print to file softkeys, or (2) using the /PF command. In Condor, use the READ command to get the file.

To dBase II, III:

Save all or part of your spreadsheet in ASCII format by (1) pressing the Print Sheet, then Print to File softkeys, or (2) using the /PF command. In dBase II or dBase III, use the APPEND command to read in your data to a predefined dataset.

To Executive Card Manager (ECM):

Save your spreadsheet in DIF format by (1) pressing Load and Store, then Store Data, or (2) using the /S#S command. Use ECM's Transfer In feature to load the file.

To Personal Card File:

Same as Executive Card Manager.

To R:Base 4000:

Save your spreadsheet in DIF format by (1) pressing Load and Store, then Store Data, or (2) using the /S#S command. In R:Base 4000, use the LOAD . . . AS DIF command to bring in the file.

To R:Base 5000:

Save your spreadsheet in DIF format by (1) pressing Load and Store, then Store Data, or (2) using the /S#S command. If values for the save field type are in columns, choose COLUMN orientation. If they are in rows, choose ROW orientation. In R:Base 5000, use R:Base 5000's FileGateway to translate your DIF file to R:Base format.

Note: To use these procedures, you need to be an experienced user of both software packages involved in the data transfer. You should also be aware that these procedures are *not* supported by Hewlett-Packard. They were developed to work with existing products—not included in the original product designs. These procedures may not work under all circumstances or with all version combinations.

Please send your additions or updates for this article to the *Communicator* editor—so that we may share them with other users in future issues.

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Deluxe VisiCalc/3000 . . . Transfer to Vectra and Touchscreen/150

Encyclopedia Articles	This is the second Encyclopedia article on this product.
Product Description	Deluxe VisiCalc/3000 is a popular spreadsheet package with the same cell, row, and column manipulations as the PC version of VisiCalc.
Data Files	Deluxe VisiCalc/3000 normally produces a binary .VC file, which contains all the constants, variables, and equations that allow Deluxe VisiCalc/3000 to reconstruct the spreadsheet every time you load it. Deluxe VisiCalc/3000 can also save files in these formats: DIF ASCII Deluxe VisiCalc/3000 can retrieve files in these formats: DIF SD
Features for Bringing Data In	To load a DIF file into Deluxe VisiCalc/3000, use the command /S#L filename. Deluxe VisiCalc prompts you for the information it needs, including row or column orientation. You will usually specify that it load the data in column format because most DIF file creators save DIF files in column format. To load an SD file into Deluxe VisiCalc/3000, use the /S#L filename command as you would for DIF files. Deluxe VisiCalc automatically recognizes the SD format and converts it to DIF.
Features for Moving Data Out	To save an ASCII file from Deluxe VisiCalc/3000, use the /PC command to specify the printer as DOCUMENT; say NO to all the configuration options except leave Auto Feed as YES. Then use /PF to specify the DOCUMENT file name and save the ASCII file. To save a DIF file from Deluxe VisiCalc/3000, use the /S#S filename command. Deluxe VisiCalc/3000 will prompt you for the information it needs, including Row or Column file format. You can specify Row or Column according to the requirements of your destination application.

Data Transfer Procedures

SPREADSHEETS

To Executive Spreadsheet:

Save your spreadsheet in the standard VisiCalc .VC format. Use AdvanceLink to transfer the file from the HP 3000 to your Touchscreen. Load the file directly into Executive Spreadsheet by pressing the Load and Store softkey, the Load Sheet or /L.

To Lotus 1-2-3:

Save your spreadsheet in the standard VisiCalc .VC format. Use AdvanceLink to transfer the file from the HP 3000 to your Touchscreen or Vectra. In 1-2-3, use the Translate Utility to convert to 1-2-3 file format.

To Symphony:

Save your spreadsheet in the standard VisiCalc .VC format. Use AdvanceLink to transfer the file from the HP 3000 to your Touchscreen or Vectra. In Symphony, use the Translate Utility to convert to Symphony file format.

To Series 100 VisiCalc:

Same as Executive Spreadsheet.

WORD PROCESSORS

To AdvanceWrite I:

Save the spreadsheet in ASCII format as detailed in the "Features For Moving Data Out" section. Use AdvanceLink to transfer the file from the HP 3000 to your Touchscreen or Vectra. Bring the file into your AdvanceWrite document using Filing([ScrLck][Break]), Translate ([T]), Standard ASCII to AdvanceWrite ([A]), and specify the ASCII file name.

To AdvanceWrite II or III:

Save your spreadsheet in DIF format using the /S#S command. Transfer the file from your HP 3000 to your Vectra using AdvanceLink. You can bring the DIF file into either a document or a list, as explained in the AdvanceWrite article in this issue.

To Executive MemoMaker (EMM):

Save your spreadsheet in ASCII format as detailed in the "Features for Moving Data Out" section. Use AdvanceLink to transfer the file from the HP 3000 to your Touchscreen or Vectra. In EMM, load the file by pressing File Keys, then Get Memo, then ASCII File so that the asterisk (*) appears in the ASCII File* softkey.

To MemoMaker:

Same as Executive MemoMaker. Use Get Memo; there is no ASCII File option, but the file will be read in successfully.

To MS Word:

Save your spreadsheet in ASCII format as detailed in the "Features for Moving Data Out" section. Use AdvanceLink to transfer the file from the HP 3000 to your Touchscreen or Vectra. When you type your Local Destination File name, add the .DOC extension. In MS Word, bring in the file with Transfer, Load.

To MultiMate:

Save your spreadsheet in DIF format using the /S#S command. You can specify either ROW or COLUMN format; remember what your chose because MultiMate will ask for it. Use AdvanceLink to transfer the file from the HP 3000 to your Touchscreen or Vectra. In MultiMate, convert the file to MultiMate's .DOC format using the File Conversion utility.

To WordStar:

Same as WordStar Professional.

To WordStar Professional:

Save your spreadsheet in ASCII format as detailed in the "Features for Moving Data Out" section. Use AdvanceLink to transfer the file from the HP 3000 to your Vectra. In WordStar, press Open Non-Document (Touchscreen) or [N] (Vectra) to load the file.

To WordStar 2000:

Save your spreadsheet in ASCII format as detailed in the "Features for Moving Data Out" section. Use AdvanceLink to transfer the file from the HP 3000 to your Vectra. In WordStar 2000, use the Block Insert command to get the file.

To Word/150:

This is only possible via the HP Word/3000 converting utility. Save your spreadsheet in ASCII format as detailed in the "Features for Moving Data Out" section. To transfer the file into Word/150, refer to the Word/150 article in this issue.

To HP Slate:

Save your spreadsheet in ASCII format as detailed in the "Features for Moving Data Out" section. HP Slate will automatically convert the file as you bring it in.

To HP Word:

Save your spreadsheet in ASCII format as detailed in the "Features for Moving Data Out" section. In HP Word, invoke the built in converter to translate to HP Word format.

To TDP/3000:

Save your spreadsheet in ASCII format as detailed in the "Features for Moving Data Out" section. TDP can read the file as is. Note that you may need to add TDP formatting commands.

GRAPHICS

To Charting Gallery:

Save your spreadsheet in DIF format by using the /S#S command. Use AdvanceLink to transfer the file to your PC. In Charting Gallery, get the data by first pressing Get and Save, then typing the filename, then Get Data.

To PFS:Graph:

Save your spreadsheet in DIF format using the /S#S command. Use AdvanceLink to transfer the spreadsheet to your Touchscreen. In PFS:Graph, go to the /Get/Save/Remove menu to get your file.

To Picture Perfect:

Save your spreadsheet in DIF format using the /S#S command. Use AdvanceLink to transfer the file to your Touchscreen. In Picture Perfect, get the file by pressing USER AIDS, then Load Data.

To Series 100 Graphics:

Save your spreadsheet in DIF format using the /S#S command. Use AdvanceLink to transfer the file to your Touchscreen. In Series 100 Graphics, on the Charts menu, specify your file name, set Transfer Data In* and then press Data to get your file.

To DSG/3000:

Save your spreadsheet in ASCII format as detailed in the "Features for Moving Data Out" section. The data you save must have no variable labels, column headings, special numeric formats, etc. Using a word processor, look at the column position of each field, and the length of each record, and write them down. In DSG/3000 you will need to fill in the Data Definition menu found in the Create Chart level of DSG/3000. Your file FIXED format, fill in the blanks with the data you wrote down.

To HP Map:

Save all or part of your spreadsheet in ASCII format as detailed in the "Features for Moving Data Out" section. Note that your file must contain only zone/place names and their corresponding data value fields, on record per row. Using a word processor, look at the column position of each field and the length of your records. Write them down. In HP Map, go to the Select Data File menu to get the file. Your file is in FIXED format; fill in the menu with the information that you wrote down.

DATABASES

To Condor:

Save your spreadsheet in ASCII format as detailed in the "Features for Moving Data Out" section. Use AdvanceLink to transfer the file to your Touchscreen. In Condor, use the READ command to get the file.

To dBase II, III:

Save your spreadsheet in ASCII format as detailed in the "Features for Moving Data Out" section. Use AdvanceLink to transfer the file to your Touchscreen. In dBase II or dBase III, use the APPEND command to read in your data to a predefined dataset.

To Executive Card Manager (ECM):

Save your spreadsheet in DIF format using the /S#S command. Use AdvanceLink to transfer the file to your Touchscreen or Vectra. Use ECM's Transfer In feature to load the file.

To Personal Card File:

Same as Executive Card Manager.

To R:Base 4000:

Save your spreadsheet in DIF format using the /S#S command. If values for the same field type are in columns, choose COLUMN orientation; if they are in rows, choose ROW orientation. In R:Base 4000, use the LOAD . . . AS DIF command to bring in your file.

To R:Base 5000:

Save your spreadsheet in DIF format using the /S#S command. If values for the same field type are in columns, choose COLUMN orientation. If they are in rows, choose ROW orientation. In R:Base 5000, use R:Base 5000's FileGateway to translate your DIF file to R:Base format.

Note: To use these procedures, you need to be an experienced user of both software packages involved in the data transfer. You should also be aware that these procedures are *not* supported by Hewlett-Packard. They were developed to work with existing products—not included in the original product designs. These procedures may not work under all circumstances or with all version combinations.

Please send your additions or updates for this article to the *Communicator* editor—so that we may share them with other users in future issues.

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Diagraph ... for the Touchscreen/150 and Vectra

Encyclopedia Articles	This is the second Encyclopedia article for this product.
Product Description	Diagraph is a multi-function graphics product, developed by Computer Support Corporation, that lets you make a variety of presentation aids in addition to organization charts, forms, signs, and flow diagrams, with little or no design experience. Diagraphs can be enhanced using one of thousands of available pre-designed symbols.
Data Files	Diagraph stores a diagraph <name> as: <name>.CSC, a file containing diagraph specifications <name>.CSG, a graphics file used to quickly redisplay the diagraph to the screen (cannot be later edited) <name>.PLT, (Vectra only), a file of HPGL commands that can be copied to the plotter for output There is no guarantee that Vectra and Touchscreen Diagraph files are compatible.
Features For Bringing Data In	Diagraph can read diagraphs, as well as symbols and pictorials provided with the product.
Features For Moving Data Out	A Diagraph file is product-specific and cannot be read by other applications.

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Drawing Gallery ... for the Touchscreen/150 and Vectra

Encyclopedia Articles	This is the third Encyclopedia article on this product.
Product Description	Drawing Gallery is an aided-drawing program, available on the Touchscreen and Vectra/IBM PC, that provides tools for creating text slides, organization charts, flow diagrams, and other presentation materials. Electronic templates, picture libraries, and high quality fonts let the non-artist produce quality presentation graphics.
Data Files	Drawing Gallery stores a saved picture <name> as: <name>.GAL, a picture file (Roman8 on Touchscreen and Vectra). Picture files on the Touchscreen and Vectra are compatible; however, Vectra pictures store grid settings and Touchscreen pictures do not.
Features For Bringing Data In	The Get A Picture and Add A Picture functions let you read a graphics file stored in the picture format (.GAL file). Drawing Gallery can include a Charting Gallery chart saved as a picture, as well as an HP 3000 figure converted to a picture by HP Graphics Curator/3000.
Features For Moving Data Out	The Save A Picture and Save Part of Pict functions let you save all or part of a picture for use with other applications.
Data Transfer Procedures	**WORD PROCESSORS** **To Executive MemoMaker:** Save your picture using Save A Picture or Save Part of Pict; the latter includes active objects only and eliminates border white space. Then in Executive MemoMaker, position the cursor to the desired location within the text and Get Picture, specifying the picture name. Finally, Adjust Picture to change size and positioning. **To HP Word:** Save your picture using Save A Picture or Save Part of Pict; the latter includes active objects only and eliminates border white space. Transfer the picture to the HP 3000 with AdvanceLink, specifying 8-bit binary (remember .GAL extension). Next convert the picture to a figure within a figure file using HP Graphics Curator/3000. Finally, include the figure in a document using the Figure Space feature.

To TDP/3000:

Save your picture using Save A Picture or Save Part of Pict; the latter includes active objects only and eliminates border white space. Transfer the picture to the HP 3000 with AdvanceLink, specifying 8-bit binary (remember .GAL extension). Next convert the picture to a figure within a figure file using HP Graphics Curator/3000. Finally, include the figure in a document using the command **illustration figfile:figname #lines.**

GRAPHICS

To HP Draw:

Save your picture using Save A Picture or Save Part of Pict; the latter includes active objects only and eliminates border white space. Transfer the picture to the HP 3000 with AdvanceLink, specifying 8-bit binary (remember .GAL extension). Next convert the picture to a figure within a figure file using HP Graphics Curator/3000. Finally, include the figure in a drawing using the Figure function keys. Note that you can adjust the figure (originally a picture) from within HP Draw by scaling, rotating, or stretching it as a whole; you cannot modify individual objects within it.

To HP Map:

You can use a picture converted to a figure as a marker on an HP Map dot map. Follow instructions for moving a Drawing Gallery picture to HP Draw. Then use the Define Markers menu in HP Map to specify the figure as a marker for a dot map. You can use up to eight different figures for markers on the same map.

Note: To use these procedures, you need to be an experienced user of both software packages involved in the data transfer. You should also be aware that these procedures are *not* supported by Hewlett-Packard. They were developed to work with existing products—not included in original product designs. These procedures may not work under all circumstances or with all version combinations.

Please send your additions or updates for this article to the *Communicator* editor—so that we may share them with other users in future issues.

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DSG/3000 ... Transfer to Vectra and Touchscreen/150

Encyclopedia Articles	This is the second Encyclopedia article on this product.
Product Description	DSG/3000 is a full capability business charting package on the HP 3000 that lets you create bar, pie, line and scatter charts. Charts can be enhanced with high quality fonts, different text sizes, custom axis scaling, and annotations. The charts can be plotted to any HP plotter or to several HP system graphics printers.
Data Files	DSG/3000 stores a chart as (Roman8): -Chart within chart file (filecode GRAPH) -Figure within a figure file (filecode FIG) Data entered on the Data Prompt menu is stored as (Roman8): -SD self-describing file (filecode SD)
Features For Bringing Data In	The Data Definition menu of DSG/3000 lets you read chart data from an SD (self-describing) or ASCII print file created by other office applications. **For SD files:** 1. Specify the SD file name on the Data Definition menu and press [Enter]. DSG/3000 will display the variable names (item names) and data format information for that file. 2. On the Line Chart, Bar Chart or Pie Chart menu select the variables within the file to be used as x/y axis or pie segment values. **For ASCII print files:** 1. Data must be in columnar format with no variable labels, column headings, or special numeric formats (e.g., %, CR/DR). Data can be in free or fixed format layout. For free format data, on the Data Definition menu specify the relative position in the records for each variable charted (e.g., 1 or 3 for 1st or 3rd). For fixed format data, on the Data Definition menu specify the offset and length for each variable in the record. You may need to look at the actual layout of the data in an HP 3000 editor so that you can adequately specify it to DSG/3000. 2. On the Line Chart, Bar Chart or Pie Chart menu, select the variables within the file to be used as x/y axis or pie segment values.

Features For Moving Data Out	DSG/3000 creates an SD file for data entered on the Data Prompt menu (maximum of 12 data rows). The Create Figure selection on the Main Menu lets you save a chart as a figure, for use with other HP 3000 office applications, or converted to Gallery pictures (via HP Graphics Curator/3000) for use with personal computer applications.
Data Transfer Procedures	**SPREADSHEETS:** **To Executive SpreadSheet:** Not practical to use a DSG SD data file created on the Data Prompt menu, which allows only 12 records; however, to do so, use AdvanceLink to transfer (and automatically convert) the SD data file to a DIF file (be sure to include .DIF). **To Lotus 1-2-3:** Not possible to use chart within Lotus—not practical to use SD data file created on the Data Prompt menu, which allows only 12 records; however, to do so, use AdvanceLink to transfer (and automatically convert) the SD data file to a DIF file. Then use the Translate Utility of 1-2-3 to bring the data into a spreadsheet. **To Symphony:** Same as DSG/3000 to Lotus 1-2-3. **To Series 100 VisiCalc:** Not practical to use a DSG SD data file created on the Data Prompt menu, which allows only 12 records; however, to do so, use AdvanceLink to transfer (and automatically convert) the SD data file to a DIF file. **To Deluxe VisiCalc/3000:** Not practical, data only—DSG/3000 stores data entered on the Data Prompt menu as an SD file. Use the /S#L sdfilename C command within Deluxe VisiCalc to load the data into a spreadsheet.
	WORD PROCESSORS **To Executive MemoMaker:** Save the chart as a figure using Create Figure on the Main Menu. Convert the figure to a Gallery picture (.GAL) using HP Graphics Curator/3000. Then transfer the picture to the personal computer (Touchscreen or Vectra) with AdvanceLink. Bring the picture (originally a chart) into Executive MemoMaker using the Picture Keys.

To HP Word:

Save the chart as a figure using Create Figure on the Main Menu. Then use the Figure Space feature of HP Word to include the figure in your document.

To TDP/3000:

Save the chart as a figure using Create Figure on the Main Menu. Then use the illustration command in TDP to specify the figure within your document.

GRAPHICS

To Drawing Gallery:

Save the chart as a figure using Create Figure on the Main Menu. Convert the figure to a Gallery picture (.GAL) using HP Graphics Curator/3000. Then transfer the picture to the personal computer (Touchscreen or Vectra) with AdvanceLink. Finally bring the picture into Drawing Gallery using either Get A Picture or Add A Picture.

To HP Draw:

Save the chart as a figure using Create Figure on the DSG's Main Menu. Then include that figure in your drawing using the Figure menu of HP Draw. You can also bring the chart directly into HP Draw using the Chart menu of HP Draw.

To HP Map:

Not practical to use a chart as a marker on an HP Map dot map—however, if you really want to, first save the chart as a figure using Create Figure on the DSG's Main Menu. Then use the HP Map Define Markers menu to specify that figure as a marker.

DATABASES

To Executive Card Manager:

Not practical to use an SD data file created on the Data Prompt menu, which allows only 12 records—however, to do so, transfer and convert (automatically) the SD file to DIF using AdvanceLink, then bring into ECM using Copy CardFile and Transfer In.

To RBase:4000:

Not practical to use an SD data file created on the Data Prompt menu, which allows only 12 records—however, to do so, transfer and convert (automatically) to DIF the SD file using AdvanceLink; then bring into RBase with FileGateway.

To RBase:5000:

Same as DSG/3000 to R:Base:4000.

Note: To use these procedures, you need to be an experienced user of both software packages involved in the data transfer. You should also be aware that these procedures are *not* supported by Hewlett-Packard. They were developed to work with existing products—not included in original product designs. These procedures may not work under all circumstances or with all version combinations.

Please send your additions or updates for this article to the *Communicator* editor—so that we may share them with other users in future issues.

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Executive Card Manager... for the Touchscreen/150 and Vectra

Encyclopedia Articles

This is the first Encyclopedia article on this product.

Product Description

Executive Card Manager (ECM) provides management of information through rotary card file typed interface. ECM enables the user to add cards, sort cards, erase cards, update cards, and dial phone numbers automatically. ECM can produce mailing labels, simple form letters and columnar reports; many simple database operations are also ECM features.

Data Files

ECM creates six file types:

Each time a cardfile is created three files are created:

- .EIX file for the index of each cardfile
- .EDT file for the data, however, nothing is in the file until data is entered into the cards
- .EFM file for the card form

Report forms and mailing label forms can be saved. A special extension is not automatically given.

Holding files are created during the Transfer In and Transfer Out operation. No special filename or extension is automatically given. A holding file can be created in either Data Interchange Format (DIF) or quoted BASIC format.

Print files are standard ASCII files. Simply, choose To File to have the report print to disc.

ECM Files use the following character set.

FILE	VECTRA	HP TOUCHSCREEN
.EDT	Roman-8	Roman-8
.EFM	Roman-8	Roman-8
.EIX	Roman-8	Roman-8
Holding Files	IBM-8	Roman-8
Report/ Label Forms	IBM-8	Roman-8
Print Files	Roman-8	Roman-8

Features For Bringing Data In

Through the Transfer In feature either quoted BASIC or DIF files can be brought into ECM. Each line of the quoted BASIC or DIF file is made into a separate ECM card.

–From the Cardfile Tasks Menu, choose Copy Cardfile.
–Choose Transfer In.

–Select the appropriate file format of the file being transferred into ECM. (Either DIF Format or BASIC Format.)
–From the Copy Menu type in the holding file name, then choose Copy.

Data fields in the holding file DO NOT necessarily need to be placed into ECM in the exact same order. Through the ECM Reorder Fields feature the user can specify which holding file fields to bring into ECM and in what order to bring the fields into ECM.

Personal Card File (PCF) cardfiles can be converted to ECM format through the use of the PCF-TO-ECM Conversion Utility which is available with ECM. The Using Executive Card Manager manual clearly details the steps to convert the files.

Features for Moving Data Out

Through the Transfer Out feature either DIF or quoted BASIC formatted files can be transferred to other applications.

–Choose Copy Cardfile.
–Choose Transfer Out.
–Choose either the BASIC Format or the DIF Format From the Copy Menu, name the holding file. Some applications require a .PRN extension for a BASIC file or a .DIF extension for a DIF file.
–Choose Copy.

Data fields from the cardfile DO NOT necessarily need to be placed into the holding file in the exact same order. Through the ECM Reorder Fields feature the user can specify which cardfile fields to transfer and in what order to transfer them.

ASCII files can also be created. From the Print Options Menu select To File.

Data Transfer Procedures

SPREADSHEETS

To Executive Spreadsheet:

Use the Transfer Out feature, select DIF Format. Use the Store # Load command in Executive SpreadSheet to bring the data in.

To Lotus 1-2-3:

Use the Transfer Out feature, select DIF format. If DIF is selected use the Lotus 1-2-3 Translate Utility to convert the DIF file to a WKS file. Or, create an ASCII file (.PRN) and use the Lotus /File Import Numbers command.

To Symphony:

See Lotus 1-2-3 above.

To Series 100 VisiCalc:

Use the Transfer Out feature, select DIF Format. Use the Store # Load command in VisiCalc to bring the data in.

To Deluxe VisiCalc/3000:

Use the Transfer Out feature, select DIF Format. Transfer the file using AdvanceLink. In Deluxe VisiCalc/3000 use the Store # Load command to bring the data in.

WORD PROCESSORS

To AdvanceWrite:

To transfer to AdvanceWrite II and III use the Transfer Out feature, select DIF Format. Use AdvanceWrite's Filing Interchange feature to bring the data into AdvanceWrite.

To Executive MemoMaker:

Create an ASCII file.

To MemoMaker:

Create an ASCII file.

To MS Word:

Use the Transfer Out feature, select BASIC Format. In MS Word, use the PrintMerge feature.

To MultiMate:

Use the Transfer Out feature, select DIF Format. In MultiMate use the FILECONV utility to covert the DIF file to a MultiMate document.

To WordStar:

Use the Transfer Out feature, select BASIC Format. In the WordStar master document insert the .DF <FILENAME> command, also insert the .RV <variable> commands.

To Word/150:

Create an ASCII file. Transfer the ASCII file to HP Word/3000 using AdvanceLink. Use HP Word/3000 Convert Document Menu to convert it to HP Word format. Transfer it back to the HP Touchscreen (150) using AdvanceLink.

To HP Slate:

Create an ASCII file. Transfer the file to the HP3000 as 7-bit ASCII, and bring it into HP Slate; it will be automatically converted.

To HP Word:

Create an ASCII file. Transfer the file to HP3000 as 7-bit ASCII. Use HP Word/3000 Convert Document Menu to convert it to HP Word format.

To TDP/3000:

Create an ASCII file. Transfer the file to the HP3000 as 7-bit ASCII, and bring it into TDP/3000 with the T command.

GRAPHICS

To Charting Gallery:

Create an ASCII file. The first column should be text and the other columns should be numeric. Anything separated by a space.

To Picture Perfect:

Create an ASCII file. In Picture Perfect, choose Load Data.

To Series 100 Graphics:

Use the Transfer Out feature, select DIF Format. Within the Series 100 Graphics chart type select Transfer Data In. Or, create an ASCII file.

To HP Map:

Create an ASCII file.

DATABASES

To Condor:

Use the Transfer Out feature, select BASIC Format. In Condor first use the SET DATE YY/MM/DD command. Then, use the READ <DATABASE> <HOLDING FILE> command.

To dBase II, III:

Use the Transfer Out feature, select BASIC Format. In dBASE use the APPEND FROM <HOLDING FILE> DELIMTED command.

To R:BASE 4000:

Use the Transfer Out feature, select DIF Format. In R:BASE 4000, Load. . .as DIF. Or, you can bring a quoted BASIC file into R:BASE 4000.

To R:BASE 5000:

Use the Transfer Out feature, select either DIF Format or BASIC Format. Use the FileGateway menu in or a comma is considered a new column.

Note: To use these procedures, you need to be an experienced user of both software packages involved in the data transfer. You should also be aware that these procedures are *not* supported by Hewlett-Packard. They were developed to work with existing products—not included in the original product designs. These procedures may not work under all circumstances or with all version combinations.

Please send your additions or updates for this article to the *Communicator* editor—so that we may share them with other users in future issues.

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Executive MemoMaker ... for the Touchscreen/150 and Vectra

Encyclopedia Articles	This is the third Encyclopedia article on this product.
Product Description	Executive MemoMaker (EMM) is an easy to use word processor, available on the Touchscreen and Vectra, that lets you incorporate text and Graphics Gallery illustrations into memos and reports. It has an integrated spelling checker and corrector, MemoSpeller, and supports a wide variety of HP and non-HP printers.
Data Files	Executive MemoMaker can save three kinds of files: **Document files**—WordStar compatible, Roman-8 text files **ASCII files**—IBM-8 ASCII text files on Vectra, USASCII text files on the Touchscreen **Format files**—binary EMM configuration data files EMM Touchscreen and Vectra document files are interchangeable; their ASCII files differ only in what their extended characters map to. EMM format files on the two machines are incompatible. Executive MemoMaker can retrieve: MemoMaker files WordStar files ASCII files (.PRN files, etc.) Executive MemoMaker has no mail-merge capability.
Features For Bringing Data In	The Get Memo function of Executive MemoMaker lets you read in both document and ASCII files. Files will be brought in as documents if Document File* is set, and ASCII if ASCII File* is set. Lines longer than 79 characters will be split onto separate lines. The Merge Memo function lets you merge a file into the memo you're editing. It follows the same conventions as Get Memo.
Features and Procedures For Moving Data Out	The Save Memo function of Executive MemoMaker lets you save out both document and ASCII files. Files will be saved as document if Document File* is set, and ASCII if ASCII File* is set.

Data Transfer Procedures

SPREADSHEETS

To Lotus 1-2-3:

Save file as ASCII File with .PRN extension. In 1-2-3, choose /File Import (/FI).

To Symphony:

Save file as ASCII File with .PRN extension. In Symphony, choose /File Import (/FI).

WORD PROCESSORS

To AdvanceWrite:

Save file as ASCII File *. In AdvanceWrite, convert the file to AdvanceWrite format using the Filing, Translate function.

To MemoMaker:

No conversion is necessary. In MemoMaker, bring in the file with Get Memo.

To MS Word:

Convert document files to MS Word format with MS Word's WordStar CONVERT utility (give it a .DOC extension!). In MS Word, bring in the file with Transfer, Load.

To MultiMate:

Convert document files to ASCII with a .DOC extension. Use MultiMate's FILECONV utility to convert the file to MultiMate format.

To WordStar:

No conversion is necessary.

To WordStar 2000:

Save file as ASCII File *. In WordStar 2000, bring in the file with Block, Insert a file.

To Word/150:

Save file as ASCII File *. Transfer ASCII file to the HP 3000 using AdvanceLink. Use HP Word/3000 Convert Document Menu to convert it to HP Word format. Return to P.A.M. and use the installed 3000->Word150 function to convert it to Word/150 format and transfer it down to the Touchscreen.

To HP Slate:

Save file as ASCII File *. Transfer the file to the HP 3000 as ASCII, and bring it into HP Slate; it will be automatically converted.

To HP Word:

Save file as ASCII File *. Transfer the file to the HP 3000 as ASCII. Use HP Word/3000 Convert Document Menu to convert it to HP Word format.

To TDP/3000:

Save file as ASCII File *. Transfer the file to the HP 3000 as ASCII, and bring it into TDP/3000 with the TEXT command.

GRAPHICS

To Picture Perfect:

Save file as ASCII File *. In Picture Perfect, choose Load Data.

To Series 100 Graphics:

Save file as ASCII File *. In Series 100 Graphics, choose Transfer Data In* on the Charts menu, to bring in the ASCII file.

To DSG/3000:

Save file as ASCII File * and transfer it to the HP 3000. In DSG/3000, use the Data Definition menu to bring in the file.

To HP Map:

Save file as ASCII File * and transfer it to the HP 3000. In HP Map, use the Select Data File menu to bring in the file.

DATABASES

To Condor:

Put document in Condor's "M" option format and save it as ASCII File *. Condor will recognize this file type when it READs it.

To dBase II, III:

Put document in quoted BASIC format and save it as ASCII File *. In dBase, use the APPEND command to add data to a defined dataset.

To Executive Card Manager:

Put document in quoted BASIC format and save it as ASCII File *. In Executive Card Manager, use Copy Cardfile to Transfer In the file in BASIC Format.

To R:BASE 4000:

Put document in quoted BASIC format and save it as ASCII File *. In R:BASE, do a LOAD. . .AS ASCII to append the data to a defined table.

To R:BASE 5000:

Put document in delimited or fixed field format and save it as ASCII File *. In R:BASE, do a Convert document files to ASCII as delimited or fixed field. Use the R:BASE FileGateway utility to append the data to a defined table.

Note: To use these procedures, you need to be an experienced user of both software packages involved in the data transfer. You should also be aware that these procedures are *not* supported by Hewlett-Packard. They were developed to work with existing products—not included in the original product designs. These procedures may not work under all circumstances or with all version combinations.

Please send your additions or updates for this article to the *Communicator* editor—so that we may share them with other users in future issues.

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Executive Spreadsheet ... for the HP Vectra PC

Encyclopedia Articles	This is the first Encyclopedia article on this product.
Product Description	A popular spreadsheet application, Executive Spreadsheet is a row column manipulator that allows financial planners to do "what if" scenarios. Executive Spreadsheet runs on the HP Vectra.
Data Files	Executive Spreadsheet normally produces a binary .VC file, which contains all the constants, variables, and equations that allow Executive Spreadsheet to reconstruct the spreadsheet every time you load it. Executive Spreadsheet can also save files in these formats: DIF ASCII Executive Spreadsheet can retrieve DIF files as well as .VC files.
Features for Bringing Data In	To load a DIF file into Executive Spreadsheet, press the Load and Store softkey, then Load Data. Executive Spreadsheet prompts you for the information it needs. When asked for Row or Column orientation, type R or C depending on whether the DIF file was saved in Row or Column format.
Features for Moving Data Out	To save an ASCII file from Executive Spreadsheet, (1) press Print Sheet, then Print to File, or (2) use the /PF command. Executive Spreadsheet prompts you for the information it needs to save your file. Executive Spreadsheet will add the .PRN extension to your file name. To save a DIF file from Executive Spreadsheet, (1) press Load and Store, then Store Data, or (2) use the /S#S command. Executive Spreadsheet prompts you for the information it needs to save your file. You can indicate Row or Column orientation, depending on what the other program needs.

Data Transfer Procedures	**SPREADSHEETS** **To Deluxe VisiCalc/3000:** Save your spreadsheet in the standard .VC format. Transfer the file to the HP 3000 using AdvanceLink, binary format. You can load the file into Deluxe VisiCalc/3000 without any conversion. **To Lotus 1-2-3:** Save your spreadsheet in the standard VisiCalc .VC format. In 1-2-3, use the Translate Utility to convert to 1-2-3 file format. **To Symphony:** Save your spreadsheet in the standard VisiCalc .VC format. In Symphony, use the Translate Utility to convert to Symphony file format. **To Series 100 VisiCalc:** Save your spreadsheet in the standard .VC format. You can load the file into Series 100 VisiCalc without any conversion.
	WORD PROCESSORS **To AdvanceWrite I:** Save the spreadsheet in ASCII format by (1) pressing the Print Sheet, then Print to File softkeys, or (2) using the /PF command. Bring the file into your AdvanceWrite document using Filing([ScrLck][Break]), Translate ([T]), Standard ASCII to AdvanceWrite ([A]), and specify the ASCII file name. **To AdvanceWrite II or III:** Save your spreadsheet in DIF format by (1) pressing Load and Store, then Store Data, or (2) using the /S#S command. You can bring the DIF file into either a document or a list, as explained in the AdvanceWrite article in this issue. **To Executive MemoMaker (EMM):** Save your spreadsheet in ASCII format by (1) pressing the Print Sheet, then Print to File softkeys, or (2) using the /PF command. In EMM, load the file by pressing File Keys, then Get Memo, then ASCII File so that the asterisk (*) appears in the ASCII File* softkey. **To MemoMaker:** Same as Executive MemoMaker. Use Get Memo; there is no ASCII File option, but the file will be read successfully.

To MS Word:

Save your spreadsheet in ASCII format by (1) pressing the Print Sheet, then Print to File softkeys, or (2) using the /PF command. When you name your file, give it a .DOC extension. In MS Word, bring in the file with Transfer, Load.

To MultiMate:

Save your spreadsheet in DIF format by (1) pressing Load and Store, then Store Data, or (2) using the /S#S command. You can specify either ROW or COLUMN format, remember what you chose because MultiMate will ask for it. In MultiMate, convert the file to MultiMate's .DOC format using the File Conversion utility.

To WordStar:

Same as WordStar Professional.

To WordStar Professional:

Save your spreadsheet in ASCII format by (1) pressing the Print Sheet, then Print to File softkeys, or (2) using the /PF command. In WordStar, press Open Non-Document (Touchscreen) or [N] (Vectra) to load the file.

To WordStar 2000:

Save your spreadsheet in ASCII format by (1) pressing the Print Sheet, then Print to File softkeys, or (2) using the /PF command. In WordStar 2000, use the Block Insert command to get the file.

To Word/150:

This is only possible via the HP Word/3000 converting utility. Save your spreadsheet in ASCII format by (1) pressing the Print Sheet, then Print to File softkeys, or (2) using the /PF command. To transfer the file into Word/150, refer to the Word/150 article in this issue.

To HP Slate:

Save your spreadsheet in ASCII format by (1) pressing the Print Sheet, then Print to File softkeys, or (2) using the /PF command. Use AdvanceLink to transfer the file to the HP 3000 as a 7-bit ASCII file. HP Slate will automatically convert the file as you bring it in.

To HP Word:

Save your spreadsheet in ASCII format by (1) pressing the Print Sheet, then Print to File softkeys, or (2) using the /PF command. Use AdvanceLink to transfer the file to the HP 3000 as a 7-bit ASCII file. In HP Word, invoke the built-in converter to translate to HP Word format.

To TDP/3000:

Save your spreadsheet in ASCII format by (1) pressing the Print Sheet, then Print to File softkeys, or (2) using the /PF command. Use AdvanceLink to transfer the file to the HP 3000 as a 7-bit ASCII file. TDP can read the file as is. Note that you may need to add TDP formatting commands.

GRAPHICS

To Charting Gallery:

Save your spreadsheet in DIF format by (1) pressing Load and Store, then Store Data, or (2) using the /S#S command. In Charting Gallery, get the data by first pressing Get and Save, then typing the filename, then Get Data.

To PFS:Graph:

Save your spreadsheet in DIF format by (1) pressing Load and Store, then Store Data, or (2) using the /S#S command. In PFS:Graph, go to the /Get/Save/Remove menu to get your file.

To Picture Perfect:

Save your spreadsheet in DIF format by (1) pressing Load and Store, then Store Data, or (2) using the /S#S command. In Picture Perfect, get the file by pressing USER AIDS, then Load Data.

To Series 100 Graphics:

Save your spreadsheet in DIF format by (1) pressing Load and Store, then Store Data, or (2) using the /S#S command. In Series 100 Graphics, on the Charts menu, specify your file name, set Transfer Data In*, and then press Data to get your file.

To DSG/3000:

Save all or part of your spreadsheet in ASCII format by (1) pressing the Print Sheet, then Print to File softkeys, or (2) using the /PF command. The data you save must have no variable labels, column headings, special numeric formats, etc. Look at your ASCII file using a word processor or MS-DOS. Write down the column position of each

field and the record lengths for future reference. Use AdvanceLink to transfer your file to the HP 3000 in ASCII format. In DSG/3000 you will need to fill in the Data Definition menu found in the Create Chart level of DSG/3000. The data is in fixed form; use the information you wrote down to fill in the rest of the menu.

To HP Map:

Save all or part of your spreadsheet in ASCII format by (1) pressing the Print Sheet, then Print to File softkeys, or (2) using the /PF command. Note that your file must contain only zone/place names and their corresponding data value fields, on record per row. Look at your ASCII file using a word processor or MS-DOS. Write down the column position of each field and the record lengths for future reference. Use AdvanceLink to transfer your file to the HP 3000 in ASCII format. In HP Map, go to the Select Data File menu to get the file. Your file is in fixed format; use the information you wrote down to fill in the rest of the menu.

DATABASES

To Condor:

Save all or part of your spreadsheet in ASCII format by (1) pressing the Print Sheet, then Print to File softkeys, or (2) using the /PF command. In Condor, use the READ command to get the file.

To dBase II, III:

Save all or part of your spreadsheet in ASCII format by (1) pressing the Print Sheet, then Print to File softkeys, or (2) using the /PF command. In dBase II or dBase III, use the APPEND command to read your data in to a predefined dataset.

To Executive Card Manager:

Save your spreadsheet in DIF format by (1) pressing Load and Store, then Store Data, or (2) using the /S#S command. Use ECM's Transfer In feature to load the file.

To Personal Card File:

Same as Executive Card Manager.

To R:Base 4000:

Save your spreadsheet in DIF format by (1) pressing Load and Store, then Store Data, or (2) using the /S#S command. In R:Base 4000, use the LOAD. . .AS DIF command to bring in the file.

To R:Base 5000:

Save your spreadsheet in DIF format by (1) pressing Load and Store, then Store Data, or (2) using the /S#S command. If values for the save field type are in columns, choose COLUMN orientation. If they are in rows, choose ROW orientation. In R:Base 5000, use R:Base 5000's FileGateway to translate your DIF file to R:Base format.

Note: To use these procedures, you need to be an experienced user of both software packages involved in the data transfer. You should also be aware that these procedures are *not* supported by Hewlett-Packard. They were developed to work with existing products—not included in the original product designs. These procedures may not work under all circumstances or with all version combinations.

Please send your additions or updates for this article to the *Communicator* editor—so that we may share them with other users in future issues.

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Series 100 Graphics ... for the Touchscreen/150

Encyclopedia Articles	This is the third Encyclopedia article on this product.
Product Description	Series 100 Graphics is a chart maker on the Touchscreen that lets you easily create text, pie, bar, line, and scattergram charts. Charts can be enhanced with line or textual annotations. They can be plotted to many HP graphics plotters; printing is done via a screen dump of the graphics screen. The discontinued Series 100 Graphics is a predecessor to Graphics Gallery.
Data Files	Series 100 Graphics stores a saved chart <name> in two files (Roman8): <name>.GPH, a chart description file <name>.GPD, a binary data file <name>.GTX, a binary text chart file Series 100 charts (excluding text chart type) can be read into Touchscreen version of Charting Gallery. Series 100 Graphics retrieves (Roman8): -data from a DIF data file -data from an ASCII data file, also called print file, local transfer file, quoted BASIC file
Features For Bringing Data In	The Get a Chart and Transfer Data In functions of Series 100 Graphics let you read in data from DIF and ASCII files with these limitations: Data must be in columnar format with no blank lines (no blank columns for DIF files). For ASCII data, blanks or commas are delimiters between columns; no non-numeric symbols (e.g., %) for numeric data. Data must be oriented so that X-axis data (textual or numeric) is in the first column, and the next five columns contain numeric data for Y-axis variables To bring in data from a DIF or ASCII print file: 1. Choose the chart type and start the appropriate program (Pie, Bar or Line). 2. On the Charts menu specify the desired file name for Data File Information, set Transfer Data In*, and then press Data to transfer the data in. 3. On the Data menu, view retrieved data. 4. Continue using Series 100 Graphics to design chart using retrieved data.
Features For Moving Data Out	Series 100 Graphics creates its own chart files, which can be read directly by the follow-on product Charting Gallery.

Data Transfer Procedures

WORD PROCESSORS

To Executive MemoMaker:

Bring the chart into Charting Gallery; then save it as a picture file (.GAL) from within Charting Gallery. Bring the picture into Executive MemoMaker using the Picture Keys.

To HP Word:

Bring the chart into Charting Gallery; then save it as a picture file (.GAL) from within Charting Gallery. Next use AdvanceLink to upload the picture (with file extension .GAL) to the HP 3000, specifying an 8-bit binary transfer. Then use HP Graphics Curator/3000 to convert the picture to a figure within a figure file. Finally, include the figure (representing the original chart) in a document using the Figure Space feature.

To TDP/3000:

Bring the chart into Charting Gallery; then save it as a picture file (.GAL) from within Charting Gallery. Next use AdvanceLink to upload the picture (with file extension .GAL) to the HP 3000, specifying an 8-bit binary transfer. Then use HP Graphics Curator/3000 to convert the picture to a figure within a figure file. Finally, include the figure (representing the original chart) in a document using the command: illustration figfile:figname #lines

To Charting Gallery:

Bar, line, and pie charts saved in Series 100 Graphics can be used automatically (no conversion necessary) in Charting Gallery; text charts cannot be used. Note that Charting Gallery charts cannot be used in Series 100 Graphics.

To Diagraph:

Not possible–graphics file formats are different.

To Drawing Gallery:

Bring the chart into Charting Gallery; then save it as a picture file (.GAL) from within Charting Gallery. Include the picture in your Drawing Gallery drawing using the File Keys to Get A Picture or Add A Picture. From there you can modify any part of the chart; e.g., titles, bar colors, legend placement, etc.

To HP Draw:

Bring the chart into Charting Gallery; then save it as a picture file (.GAL) from within Charting Gallery. Next use AdvanceLink to upload the picture (with file extension .GAL) to the HP 3000, specifying an 8-bit binary transfer. Then use HP Graphics Curator/3000 to convert the picture to a figure. Finally, include the figure (representing the original chart) in a drawing using the Figure function keys. Note that you can adjust the figure (originally a chart) from within HP Draw by scaling, rotating, or stretching the chart as a whole; you cannot modify individual objects within the chart.

To HP Map:

Not practical—however, to use a chart as a marker on an HP Map dot map, first follow instructions for Series 100 to HP Draw for converting the chart to a figure. Then use the Define Markers menu in HP Map to specify the figure as a marker.

Note: To use these procedures, you need to be an experienced user of both software packages involved in the data transfer. You should also be aware that these procedures are *not* supported by Hewlett-Packard. They were developed to work with existing products—not included in original product designs. These procedures may not work under all circumstances or with all version combinations.

Please send your additions or updates for this article to the *Communicator* editor—so that we may share them with other users in future issues.

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HP Draw... Transfer to Touchscreen/150 and Vectra

Encyclopedia Articles	This is the second Encyclopedia article on this product.
Product Description	HP Draw is a presentation graphics tool on the HP 3000 that lets you create drawings composed of text, lines, circles, figures and charts. A figure library is provided with hundreds of figures. Drawings can be plotted to any HP plotter, to a variety of HP 3000 system graphics printers, and to a DICOMED format that can be used for 35mm slides.
Data Files	HP Draw stores a drawing as: -Drawing file (MPE filecode DRAW)—product specific -Figure within a figure file (MPE filecode FIG)—to be used by other applications HP Draw can read from other application's files, including: Figure files (MPE filecode FIG) Chart files (MPE filecode GRAPH)
Features For Bringing Data In	The Figure menu of HP Draw lets you bring in figures created with other HP 3000 graphics products, or converted from Gallery picture files via HP Graphics Curator/3000. The Chart menu lets you bring in chart files created with DSG/3000 or HP EasyChart.
Features For Moving Data Out	HP Draw creates figure files that can be used in other HP 3000 applications, or converted to Gallery pictures (via HP Graphics Curator/3000) to be used in personal computer applications.

WORD PROCESSORS

To Executive MemoMaker:

Save the drawing as a figure using Save Figure from the Save Menu. Convert the figure to a Gallery picture (.GAL) using HP Graphics Curator/3000. Then transfer the picture to the personal computer (Touchscreen or Vectra) with AdvanceLink. Bring the picture into Executive MemoMaker using the Picture Keys.

To HP Word:

Save the drawing as a figure using Save Figure on the Save menu. Then use the Figure Space feature of HP Word to include the figure in your document.

To TDP/3000:

Save the drawing as a figure using Save Figure on the Save menu. Then include the figure within your document using the TDP command: illustration figfile:figname #lines.

GRAPHICS

To Drawing Gallery:

Save the drawing as a figure using Save Figure on the Save menu. Convert the figure to a Gallery picture (.GAL) using HP Graphics Curator/3000. Then transfer the picture to the personal computer (Touchscreen or Vectra) with AdvanceLink. Finally bring the picture into Drawing Gallery using either Get A Picture or Add A Picture.

GRAPHICS

To HP Map:

To use an HP Draw drawing as a marker on an HP Map dot map, save your HP Draw drawing as a figure (using Save Figure from the Save menu). Then use the HP Map Define Markers menu to specify that figure as a marker. You can use up to eight different figures for markers on the same map.

Note: To use these procedures, you need to be an experienced user of both software packages involved in the data transfer. You should also be aware that these procedures are *not* supported by Hewlett-Packard. They were developed to work with existing products—not included in original product designs. These procedures may not work under all circumstances or with all version combinations.

Please send your additions or updates for this article to the *Communicator* editor—so that we may share them with other users in future issues.

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HP EasyChart... Transfer to the Touchscreen/150 and Vectra

Encyclopedia Articles	This is the second Encyclopedia article on this product.
Product Description	HP EasyChart is a an easy-to-use chart maker on the HP 3000 that lets you create bar, pie, line and scatter charts. All the information needed to design a chart is specified on one simple menu. The charts can be plotted to any HP plotter or to one of several HP system graphics printers.
Data Files	HP EasyChart stores a chart <name> as: <name>—DSG/3000 chart file (filecode GRAPH), holding chart specifications <nameQ>—data file associated with above chart file It can also save the chart as: figure within a figure file (filecode FIG), each having the same user-specified name HP EasyChart can retrieve data from: SD self-describing file (filecode SD), with data types of textual ASCII and numerical ASCII only (i.e., not real, binary, etc.)
Features For Bringing Data In	The Data File function lets you retrieve data from SD (self-describing) files created in other office applications, provided the data types are textual or numeric ASCII (not real, binary, etc.) 1. Select the HP EasyChart chart type you want to design. 2. From a chart menu, press Data File to display the Data Selection menu. Specify the SD file name and press Browse Items to see items (variables) available in that file. 3. Then specify the SD item names (on the same menu) to use for x/y axis or pie segment values and press [Enter]. 4. Return to the chart menu to see the retrieved data.
Features For Moving Data Out	HP EasyChart creates chart files that can be used automatically in DSG/3000. With the Save Figure function on the Save menu, you can also create figures, which can be used in other HP 3000 applications, or converted to Gallery pictures (via HP Graphics Curator/3000) for use with personal computer applications.

Data Transfer Procedures

WORD PROCESSORS

To Executive MemoMaker:

Save the chart as a figure using Save Figure on the Save menu. Convert the figure to a Gallery picture (.GAL) using HP Graphics Curator/3000. Then transfer the picture to the personal computer (Touchscreen or Vectra) with AdvanceLink. Bring the picture (originally a chart) into Executive MemoMaker using the Picture Keys.

To HP Word:

Save the chart as a figure using Save Figure on the Save menu. Then use the Figure Space feature of HP Word to include the figure in your document.

To TDP/3000:

Save the chart as a figure using Save Figure on the Save menu. Then use the illustration command in TDP to specify the figure within your document.

GRAPHICS

To Drawing Gallery:

Save the chart as a figure using Save Figure on the Save menu. Convert the figure to a Gallery picture (.GAL) using HP Graphics Curator/3000. Then transfer the picture to the personal computer (Touchscreen or Vectra) with AdvanceLink. Finally bring the picture into Drawing Gallery using either Get A Picture or Add A Picture.

To DSG/3000:

Enhance an HP EasyChart chart directly in DSG/3000 by selecting to edit a chart on the Main Menu of DSG/3000, specifying the same name for the chart and chart file. Only the chart specifications can be edited, not the actual chart data. Note that HP EasyChart charts edited in DSG/3000 are not guaranteed to work properly when later accessed in HP EasyChart.

To HP Draw:

Save the chart as a figure using Save Figure on HP EasyChart's Save menu. Then include that figure in your drawing using the Figure menu of HP Draw. You can also retrieve the chart directly using Chart menu of HP Draw.

To HP Map:

Not practical to use a chart as a marker on an HP Map dot map—however, if you really want to, first save the chart as a figure using Save Figure on HP EasyChart's Save menu. Then use the HP Map Define Markers menu to specify that figure as a marker.

Note: To use these procedures, you need to be an experienced user of both software packages involved in the data transfer. You should also be aware that these procedures are *not* supported by Hewlett-Packard. They were developed to work with existing products—not included in original product designs. These procedures may not work under all circumstances or with all version combinations.

Please send your additions or updates for this article to the *Communicator* editor—so that we may share them with other users in future issues.

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HP Map ... Transfer to the Vectra and Touchscreen/150

Encyclopedia Articles	This is the first Encyclopedia article on this product.
Product Description	HP Map is a business map maker on the HP 3000 that lets the office professional display geographically based data in a map format by creating zone maps, dot maps, or combination zone/dot maps. Maps can be plotted to any HP plotter and to a variety of HP 3000 system graphics printers.
Data Files	HP Map stores a map as: -Map within map file (filecode MAP)—includes map specs and data -Figure within a figure file (filecode FIG) -Additionally, just the map data can be stored as: -SD (self-describing) data file HP Map can read from other application's files, including: -Figure files (filecode FIG) for dot map markers -SD (self-describing) data file for map data, textual or numeric ASCII data types only -ASCII print file for map data
Features For Bringing Data In	The Select Data File menu lets you bring in data from SD (self-describing) or ASCII print files created by other office applications. In either case, the file must include a column of data that is the zone/place names along with a column of corresponding data values. The zone/place names must be in alphabetical order to be processed correctly. **For SD files:** 1. Specify the SD file name on the Select Data File menu, along with variable (SD item) names for the zone/place and data value fields; you can use Browse SD Items to determine the names. Then press Select Data File to retrieve the corresponding data. 2. Return to the Data Prompt menu to see the data values retrieved.

For ASCII print files:

1. The first step depends on whether the data file in fixed or free format:
   - **For free format data,** on the Select Data File menu specify the relative position in the records for the zone/place and data value fields (e.g. 1 or 3 for 1st or 3rd).
   - **For fixed format data,** on the Select Data File menu specify the offset and length for the zone/place and data value fields. You may need to look at the actual layout of the data in an HP 3000 editor so that you can adequately specify it to HP Map.
2. Return to the Data Prompt menu to see the data values retrieved.

The Define Markers menu of HP Map lets you specify figures created with other HP 3000 graphics products (or converted from Gallery picture files via HP Graphics Curator/3000) as place markers on dot maps. You can specify up to eight figures for markers on the same map.

Features For Moving Data Out

HP Map creates figure files that can be used in other HP 3000 applications, or converted to Gallery pictures (via HP Graphics Curator/3000) to be used in personal computer applications. It also lets you save the map data only in an SD (self-describing) file on the Save Data File menu.

Data Transfer Procedures

SPREADSHEETS

To Executive SpreadSheet:

Use Save Data File menu to save zone/place and data in an SD file; then transfer (and convert to DIF) via AdvanceLink.

To Lotus 1-2-3:

Use Save Data File menu to save zone/place and data in an SD file; then transfer (and convert to DIF) via AdvanceLink.

To Symphony:

Use Save Data File menu to save zone/place and data in an SD file; then transfer (and convert to DIF) via AdvanceLink.

To Series 100 VisiCalc:

Use Save Data File menu to save zone/place and data in an SD file; then transfer (and convert to DIF) via AdvanceLink.

To Deluxe VisiCalc/3000:

Use Save Data File menu to save zone/place and data in an SD file. Read data into Deluxe VisiCalc with S#L filename C.

WORD PROCESSORS

To Executive MemoMaker:

Save the map as a figure using Save Figure from the Save menu. Convert the figure to a Gallery picture (.GAL) using HP Graphics Curator/3000. Then transfer the picture to the personal computer (Touchscreen or Vectra) with AdvanceLink. Bring the picture (originally a map) into Executive MemoMaker using the Picture Keys.

To HP Word:

Save the drawing as a figure using Save Figure on the Save menu. Then use the Figure Space feature of HP Word to include the figure in your document.

To TDP/3000:

Save the drawing as a figure using Save Figure on the Save menu. Then use the illustration command in TDP to specify the figure within your document.

GRAPHICS

To Drawing Gallery:

Save the map as a figure using Save Figure on the Save menu. Convert the figure to a Gallery picture (GAL) using HP Graphics Curator/3000. Then transfer the picture to the personal computer (Touchscreen or Vectra) with AdvanceLink. Finally bring the picture into Drawing Gallery using either Get A Picture or Add A Picture.

To HP Draw:

Save the map as a figure using Save Figure on HP Map's Save menu. Then include that figure in your drawing using the Figure menu of HP Draw.

DATABASES

To Executive Card Manager:

Not practical–see DSG/3000 to Executive Card Manager.

Note: To use these procedures, you need to be an experienced user of both software packages involved in the data transfer. You should also be aware that these procedures are *not* supported by Hewlett-Packard. They were developed to work with existing products—not included in original product designs. These procedures may not work under all circumstances or with all version combinations.

Please send your additions or updates for this article to the *Communicator* editor—so that we may share them with other users in future issues.

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HP Slate ... Transfer to the Vectra and Touchscreen/150

Encyclopedia Articles

This is the second Encyclopedia article on this product.

Product Description

HP Slate is an easy-to-use word processing product for the HP 3000. It gives the user a simple softkey and menu interface with full screen editing to produce basic documents. With HP Slate, what you see on the screen is what you get.

Data Files:

HP Slate stores its documents in its own non-ASCII format. The filecodes vary, depending on the software in use AND on whether the document is expanded (i.e., being edited by HP Slate) or whether it is compressed for storage:

	Stored	Expanded
HP Slate A.00.00	1120	1153
HP Slate A.01.01	1150	1153
HP Slate A.03.01 and later	1152	1153
HP Slate A.04.03 or later with MPE V/E or later	SLATE	SLATW

HP Slate will automatically convert ASCII files as they are brought in. A conversion utility is included to convert either from HP Slate to Editor (ASCII) format or from Editor (ASCII) to HP Slate format.

Features For Bringing Data In

HP Slate will automatically convert an ASCII file as it is read in, as long as the record length is equal to or less than 80 characters.

Features For Moving Data Out

The UTILITY level of HP Slate offers a CONVERT function that allows you to convert from HP Slate format to Editor (ASCII) format and vice versa.

Be sure to answer NO to the questions asking you whether you want to retain underlining and page breaks when using the HP Slate conversion utility.

HP Slate can be used for creating text within HPDeskManager. You can then use the HPDesk CONVERT function to convert the HP Slate document to either HPDesk text format (ASCII), or HP Word format.

Data Transfer Procedures

SPREADSHEETS

To Lotus 1-2-3:

CONVERT file to EDITOR (ASCII) format. Transfer file to the PC using AdvanceLink naming the file with a .PRN extension.. In 1-2-3, choose / File Import (/FI).

To Symphony:

CONVERT file to EDITOR (ASCII) format. Transfer file to the PC using AdvanceLink naming the file with a .PRN extension. In Symphony, choose /File Import (/FI).

WORD PROCESSORS

To AdvanceWrite:

CONVERT file to EDITOR (ASCII) format. Transfer file to the PC using AdvanceLink. In AdvanceWrite, convert the file to AdvanceWrite format using the Filing Translate function.

To Executive MemoMaker:

CONVERT file to EDITOR (ASCII) format. Transfer file to the PC using AdvanceLink. In Executive MemoMaker, read file in as ASCII file.

To MemoMaker:

CONVERT file to EDITOR (ASCII) format. Transfer file to the PC using AdvanceLink. In MemoMaker, bring in the file with Get Memo.

To MS Word:

CONVERT file to EDITOR (ASCII) format. Transfer file to the PC using AdvanceLink. Convert file to MS Word format with MS Word's WordStar CONVERT utility (give it a .DOC extension!). In MS Word, bring in the file with Transfer, Load.

To MultiMate:

CONVERT file to EDITOR (ASCII) format. Transfer file to the PC using AdvanceLink, naming the file with a .DOC extension. Use MultiMate's FILECONV utility to convert the file to MultiMate format.

To WordStar:

CONVERT file to EDITOR (ASCII) format. Transfer file to the PC using AdvanceLink. Read into WordStar as a non-Document.

To WordStar 2000:

CONVERT file to EDITOR (ASCII) format. Transfer file to the PC using AdvanceLink. In WordStar 2000, bring in the file with Block ([B]), Insert a file ([I]).

To Word/150:

CONVERT file to EDITOR (ASCII) format. Use HP Word/3000 Convert softkey from the Main Menu to convert file to HP Word format. Transfer file to the PC using the Word/150 3000->WORD150 function to convert it to Word/150 format and transfer it down to the Touchscreen.

To HP Word:

CONVERT file to EDITOR (ASCII) format. Use HP Word/3000 Convert Document Menu to convert it to HP Word format.

To TDP/3000:

CONVERT file to EDITOR (ASCII) format. Bring into TDP/3000 using the Text command.

GRAPHICS

To Charting Gallery:

CONVERT file to EDITOR (ASCII) format. Transfer file to the PC using AdvanceLink. Bring into Charting Gallery with Get and Save menu. Note that Data must be in columnar format with blanks or commas as delimiters. See Charting Gallery Features for Bringing Data In for more details.

Use the ExecuDesk Clipboard to capture HP Slate text from the screen, switch into Charting Gallery and COPY ALL from the Clipboard.

Data must be in columnar format with blanks or commas as delimiters between columns. No non-numeric symbols (e.g. %) can be used for numeric data. See Charting Gallery Features For Bringing Data In for more details.

To Drawing Gallery:

Use the ExecuDesk Clipboard to capture HP Slate text from the screen, switch into Drawing Gallery and COPY ALL from the Clipboard.

To Picture Perfect:

CONVERT file to EDITOR (ASCII) format. Transfer file to the PC using AdvanceLink. In Picture Perfect, choose Load Data.

To Series 100 Graphics:

CONVERT file to EDITOR (ASCII) format. Transfer file to the PC using AdvanceLink. In Series 100 Graphics, choose Transfer Data In* on the Charts menu, to bring in the ASCII file.

To DSG/3000:

CONVERT file to EDITOR (ASCII) format. Data must be in columnar format with no blank lines and no titles. See DSG/3000 Features for Bringing Data In for details.

To HP Map:

CONVERT file to EDITOR (ASCII) format. Zone/place names corresponding to the data values must be in alphabetical order to be processed correctly. See HPMap Features for Bringing Data In.

DATABASES

To Condor:

CONVERT file to EDITOR (ASCII) format. Use AdvanceLink to transfer file to the PC. Use the READ command in Condor to read the file in. See Condor Features For Bringing Data In for more details.

To dBase II:

File must be in quoted BASIC format. CONVERT file to EDITOR (ASCII) format. Transfer file to the PC using AdvanceLink, naming the file with a .TXT extension. In dBase, use the APPEND command to add data to a defined dataset.

To Executive Card Manager:

File must be in quoted BASIC format. CONVERT file to EDITOR (ASCII) format. Transfer file to the PC using AdvanceLink. In Executive Card Manager, use Copy Cardfile to Transfer In the file in BASIC Format.

To Personal Card File:

Same as ECM.

To R:BASE 4000:

File must be in quoted BASIC format. CONVERT file to EDITOR (ASCII) format. Transfer file to the PC using AdvanceLink. In R:BASE 4000, do a LOAD... AS ASCII to append the data to a defined table.

To R:BASE 5000:

File must be in delimited or fixed field format. Transfer file to the PC using AdvanceLink. Use the R:BASE FileGateway utility to append the data to a defined table.

Note: To use these procedures, you need to be an experienced user of both software packages involved in the data transfer. You should also be aware that these procedures are *not* supported by Hewlett-Packard. They were developed to work with existing products—not included in the original product designs. These procedures may not work under all circumstances or with all version combinations.

Please send your additions or updates for this article to the *Communicator* editor—so that we may share them with other users in future issues.

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HP Word/3000 ... Transfer to the Touchscreen/150 and Vectra

Encyclopedia Articles	This is the second Encyclopedia article on this product.
Product Description	HP Word/3000 is HP's full function secretarial word processor running on the HP 3000. It provides complete word processing functions and capabilities, and yet is easy to learn and easy to use. Some key features are: Easy to use word processing features, including automatic word wrap, tabs, indents and margin controls. Forms fill-in simplifies working with preprinted forms. Full screen editing for copying, moving, editing, and deleting words, lines or blocks of text. On-screen bold and italics character and word enhancements. Automatic page numbering and multiple headers and footers in a single document.
Data Files	HP Word files are stored on the HP 3000 with a file type WORD. They can be displayed within HP Word with the Display Catalog function key. HP Word can also use Self Describing (SD) files as user-variable input to standard documents and letters. HP Word can also access files produced by graphic products (i.e., figure files and raster files). When printing to a suitable printer, HP Word will automatically convert figure files (produced by HPDRAW, etc.) to raster files. These raster files are temporary. HP Word uses IPC files (Inter Process Communication) during printing. If printing is to a system printer, then spoofles are used. Again, during printing HP Word will access printwheel description files and environment files. There is also a configuration file used by HP Word to define the HP Word configuration. Full details of the files used can be found in the installation instruction file GUWORD1.HP32120.HPPL85.
Features For Bringing Data In	Use the Convert softkey in the Main Menu of HP Word to convert an ASCII file into HP Word format. Use the Figure Space softkey in the Document Menu to merge an HP 3000 figure into a document. To use an SD file for User Variable substitutions, use the file name in the Substitute Data From field of the Print Menu.

Features For Moving Data Out

The WordUtil entry point of HP Word allows for the following file conversions:

Note: Both the KEEP and the PRINT command add a carriage return (<CR>)/line feed (<LF>) at the beginning of the ASCII file. To transfer the file to another program, you may need to delete this line using an editor or another word processor.

- **KEEP** a copy of an HP Word document as an ASCII file. —no inside or outside margins—no page breaks, headers or footers—tabs appear as spaces—topspace lines appear as blank lines—figure spaces are replaced by the appropriate number of blank lines—system and user variables are not substituted—superscripts and subscripts are deleted—enhancements such as bold and underline are ignored—paragraph spacing lines appear as blank lines
- **PRINT** a copy of an HP Word document to an ASCII file. —margins are included—page breaks, headers and footers are included—tabs appear as spaces—topspace lines appear as blank lines—figure spaces are replaced by the appropriate number of blank lines—system variables are only substituted in headers and footers—user variables are not substituted—superscripts and subscripts are deleted—enhancements such as bold and underline are ignored
- **PREP**are data from an ASCII file or HP Word document file for substitution as a user variable. This converts the file to an SD file.

Note: It is generally easiest to use the KEEP method to convert to ASCII for file integration. Use the PRINT method only when it is essential that margins, etc. are maintained.

Data Transfer Procedures

SPREADSHEETS

To Lotus 1-2-3:

KEEP a copy of the document to an ASCII file using WORDUTIL. Transfer file to the PC using AdvanceLink, naming the file with a .PRN extension. In 1-2-3, choose /File Import (/FI).

To Symphony:

KEEP a copy of the document to an ASCII file using WORDUTIL. Transfer file to the PC using AdvanceLink, naming the file with a .PRN extension. In Symphony, choose /File Import (/FI).

WORD PROCESSORS

To AdvanceWrite:

KEEP a copy of the document to an ASCII file using WORDUTIL. Transfer file to the PC using AdvanceLink. In AdvanceWrite, convert the file to AdvanceWrite format using the Filing Translate function.

To Executive MemoMaker:

KEEP a copy of the document to an ASCII file using WORDUTIL. Transfer file to the PC using AdvanceLink. In Executive MemoMaker, bring in the file with Get Memo as an ASCII file.

To MemoMaker:

KEEP a copy of the document to an ASCII file using WORDUTIL. Transfer file to the PC using AdvanceLink. In MemoMaker, bring in the file with Get Memo.

To MS Word:

KEEP a copy of the document to an ASCII file using WORDUTIL. Transfer file to the PC using AdvanceLink. Convert document files to MS Word format with MS Word's WordStar CONVERT utility (give it a .DOC extension!). In MS Word, bring in the file with Transfer, Load.

To MultiMate:

KEEP a copy of the document to an ASCII file using WORDUTIL. Transfer file to the PC using AdvanceLink, naming the file with a .DOC extension. Use MultiMate's FILECONV utility to convert the file to MultiMate format.

To WordStar:

KEEP a copy of the document to an ASCII file using WORDUTIL. Transfer file to the PC using AdvanceLink. Read into WordStar as a non-Document.

To WordStar 2000:

KEEP a copy of the document to an ASCII file using WORDUTIL. Transfer file to the PC using AdvanceLink. In WordStar 2000, bring in the file with Block ([B]), Insert a file ([I]).

To Word/150:

Use the installed Word/150 3000->WORD150 function to convert the document to Word/150 format and transfer it down to the Touchscreen.

To HP Slate:

KEEP a copy of the document to an ASCII file using WORDUTIL. HP Slate will automatically convert file to HP Slate format as it is read in.

To TDP/3000:

KEEP a copy of the document to an ASCII file using WORDUTIL. Bring it into TDP/3000 with the Text command.

GRAPHICS

To Picture Perfect:

KEEP a copy of the document to an ASCII file using WORDUTIL. Transfer file to the PC using AdvanceLink. In Picture Perfect, choose Load Data.

To Series 100 Graphics:

KEEP a copy of the document to an ASCII file using WORDUTIL. Transfer file to the PC using AdvanceLink. In Series 100 Graphics, choose Transfer Data In* on the Charts menu, to bring in the ASCII file.

To DSG/3000:

KEEP a copy of the document to an ASCII file using WORDUTIL. For DSG/3000, data must be in columnar format with no blank lines and no titles. See DSG/3000 Features For Bringing Data In for details.

To HP Map:

KEEP a copy of the document to an ASCII file using WORDUTIL. Zone/place names corresponding to the data values must be in alphabetical order to be processed correctly. See HPMap Features For Bringing Data In.

DATABASES

To Condor:

File must be in quoted BASIC format. KEEP a copy of the document to an ASCII file using WORDUTIL. Transfer file to the PC using AdvanceLink. Delete the <CR>/<LF> at the beginning of your ASCII file using an editor or word processor. Use the READ command in Condor to read the file in. See Condor Features For Bringing Data In for more details.

To dBase II:

File must be in quoted BASIC format. KEEP a copy of the document to an ASCII file using WORDUTIL. Transfer file to the PC using AdvanceLink, naming the file with a .TXT extension. In dBase, use the APPEND command to add data to a defined dataset.

To Executive Card Manager:

File must be in quoted BASIC format. KEEP a copy of the document to an ASCII file using WORDUTIL. Transfer file to the PC using AdvanceLink. In Executive Card Manager, use Copy Cardfile to Transfer In the file in BASIC Format.

To Personal Card File: Same as ECM.

To R:BASE 4000:

File must be in quoted BASIC format. KEEP a copy of the document to an ASCII file using WORDUTIL. Transfer file to the PC using AdvanceLink. In R:BASE, do a LOAD... AS ASCII to append the data to a defined table.

To R:BASE 5000:

File must be in delimited or fixed field format. KEEP a copy of the document to an ASCII file using WORDUTIL. Transfer file to the PC using AdvanceLink. Use the R:BASE FileGateway utility to append the data to a defined table.

Note: To use these procedures, you need to be an experienced user of both software packages involved in the data transfer. You should also be aware that these procedures are *not* supported by Hewlett-Packard. They were developed to work with existing products—not included in the original product designs. These procedures may not work under all circumstances or with all version combinations.

Please send your additions or updates for this article to the *Communicator* editor—so that we may share them with other users in future issues.

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Lotus 1-2-3. . .for Vectra and Touchscreen/150

Encyclopedia Articles	This is the fourth Encyclopedia article on this product.
Product Description	1-2-3 by Lotus, a top selling spreadsheet package, integrates spreadsheet, business graphics, and file management. 1-2-3 solves the need for organizing, manipulating, and analyzing all kinds of data. It is especially useful for data that changes often; once the new numbers are input, it will automatically recalculate the entire spreadsheet. Using the graphics function, you can quickly and easily visualize the data in graphics form. 1-2-3 Release 1A is now available from HP for the HP Touchscreen; 1-2-3 Release 2 is now available from HP for the HP Vectra. 1-2-3 Release 2 for the Touchscreen will be available from HP in late Fall, 1986.
Data Files	1-2-3 saves worksheet files in binary format, with the .WKS extension for Release 1A, the .WK1 extension for Release 2. Release 1A and 2 are forward compatible; i.e. you can bring 1A worksheet files into Release 2, but you can only bring 2 worksheet files into 1A if they do not have any of the new features unsupported by Release 1A. To bring a 2 worksheet into Release 1A, use the Translate utility as described below. Both 1-2-3 Release 1A and 2 can save files in these formats: ASCII files, called PRINT or .PRN files by Lotus. DIF dBase II (.DBF) PIC files, which store graphs for use with the Lotus PrintGraph utility. A .PIC file cannot be brought back into 1-2-3. The /Graph Save command stores the current graph as a .PIC file. (Note: The /Graph Name command saves the graph settings for later editing within 1-2-3. No special file is generated, the settings are associated with the .WKS or WR1 file.) In addition to the above, only 1-2-3 Release 2 can save files in these formats: Symphony 1.0 and 1.1 (.WRK, .WR1) Jazz dBase III

1-2-3 Release 1A and 2 can retrieve files in these formats:

ASCII
DIF
dBase II (.DBF)
VisiCalc (.VC)

In addition to the above, only 1-2-3 Release 2 can retrieve files in these formats:

Symphony 1.0 or 1.1 (.WRK or .WR1)
dBase III
Jazz

Features for Bringing Data In

The /File Retrieve command loads a worksheet.

The /File Import command copies numbers and/or text from an ASCII (.PRN) file and enters them into a worksheet, starting at the cell pointer location.

If you specify TEXT, 1-2-3 creates a separate left-aligned label containing the text in that line. The result is a single column of labels.

If you specify NUMBERS, 1-2-3 searches the print file for both numbers and any series of characters enclosed in double quotes. For each number, 1-2-3 creates a number entry. For each double quoted label, 1-2-3 creates a left-aligned label. Any character that is not a number and is not enclosed in double quotes will be ignored. Successive numbers and labels from the same line of the print file are placed in successive columns of the same row of the current worksheet. Data from the next print file line is placed in the next row of the worksheet.

The Lotus Translate utility modifies certain files for exchanging data between 1-2-3 and other programs.

The Translate utility can convert the files listed below:

VisiCalc (.VC) to 1-2-3
DIF (.DIF) to 1-2-3
dBase II (.DBF)to1-2-3
1-2-3 to DIF (Row format)
1-2-3 to dBase II

In addition, 1-2-3 Release 2.0 Translate utility can convert these files:

Symphony 1.0 or 1.1 (.WRK or .WR1) to 1-2-3
VisiCalc (.VC) to 1-2-3
dBase III to 1-2-3
Jazz to 1-2-3
1-2-3 to Symphony 1.0 or 1.1
1-2-3 to dBase III
1-2-3 to Jazz
1-2-3 Release 2.0 to 1-2-3 Release 1A
Symphony 1.1 to Symphony 1.0

Features and Procedures for Moving Data Out

The /File Save command saves a worksheet.

The /Print File command saves a worksheet in ASCII format. The file will have a .PRN extension. To save only part of your worksheet, use the /Print File Range command to select that part.

The Translate utility can also be used for moving data out. See above for more information.

Data Transfer Procedures

SPREADSHEETS

To Executive Spreadsheet:

Use the Translate Utility to convert the worksheet file to .DIF format. To load the DIF file Executive Spreadsheet, (1) press the Load and Store softkey, then Load Data; (2) or use /S#L.

To Lotus 1-2-3:

Use the Translate utility to convert Release 2 files to release 1A format. Formulas and functions not supported by Release 1A will be converted to labels.

To Symphony:

No translation necessary, except to move files from 1-2-3 Release 2 to Symphony Release 1.0. In that case, use the 1-2-3 Translate Utility to convert to Symphony 1.0 format. Formulas and functions not supported by Symphony 1.0 will be converted to labels.

To Series 100 VisiCalc:

Same as Executive Spreadsheet.

To Deluxe VisiCalc/3000:

Convert to .VC or DIF format as you would with Executive Spreadsheet. Use AdvanceLink to transfer the file to the HP 3000, select binary format. Bring it into Deluxe VisiCalc/3000 using the /SL command for VC files, or the /S#L command for DIF files.

WORD PROCESSORS

To AdvanceWrite I:

Save the spreadsheet in ASCII format using the /Print File command. Bring the file into your AdvanceWrite document using Filing([ScrLck][Break]), Translate ([T]), Standard ASCII to AdvanceWrite ([A]), and specify the ASCII file name.

To AdvanceWrite II or III:

Save your spreadsheet in DIF format using 1-2-3's Translate Utility. You can bring the DIF file into either a document or a list, as explained in the AdvanceWrite article in this issue.

To Executive MemoMaker (EMM):

Save your spreadsheet in ASCII format using the /Print File command. In EMM, load the file by pressing File Keys, then Get Memo, then ASCII File so that the asterisk (*) appears in the ASCII File* softkey.

To MemoMaker:

Same as Executive MemoMaker. Use Get Memo; there is no ASCII File option, but the file will be read in successfully.

To MS Word:

Save your spreadsheet in ASCII format with a .DOC extension. To do this, use the /Print File command, then type a file name ending in .DOC. In MS Word, bring in the file with Transfer, Load.

To MultiMate:

Save your spreadsheet in DIF format using 1-2-3's Translate Utility. In MultiMate, convert the file to MultiMate's .DOC format using the File Conversion utility.

To WordStar:

Same as WordStar Professional.

To WordStar Professional:

Save your spreadsheet in ASCII format using the /Print File command. In WordStar, press Open Non-Document (Touchscreen) or [N] (Vectra) to load the file.

To WordStar 2000:

Save your spreadsheet in ASCII format using the /Print File command. In WordStar 2000, use the Block Insert command to get the file.

To Word/150:

This is only possible via the HP Word/3000 converting utility. Save your spreadsheet in ASCII format using the /Print File command. To transfer the file into Word/150, refer to the Word/150 article in this issue.

To HP Slate:

Save in ASCII format using /Print File. Use AdvanceLink to transfer your file to the HP 3000 in 7-bit ASCII format. HP Slate will automatically convert the file as you bring it in.

To HP Word/3000:

Save in ASCII format using /Print File. Use AdvanceLink to transfer your file to the HP 3000 in 7-bit ASCII format. In HP Word, invoke the built in converter to translate to HP Word format.

To TDP/3000:

Save in ASCII format using /Print File. Use AdvanceLink to transfer your file to the HP 3000 in 7-bit ASCII format. TDP can read the file as is. Note that you may need to add TDP formatting commands either in 1-2-3 or TDP.

GRAPHICS

To Charting Gallery:

You can transfer graphs from any version of 1-2-3 to Charting Gallery on the Vectra. If you have The Worksheet Connection, you can transfer graphs from 1-2-3 Release 1A to Charting Gallery on the Touchscreen. You can transfer data from any version of 1-2-3 to any version of Charting Gallery.

Transferring Graphs (Vectra version of Charting Gallery only):

Save your 1-2-3 file as usual (/File Save). In Charting Gallery, get the graph by using the Get Wrksheet function from the Get and Save menu.

Transferring Graphs (Touchscreen version of Charting Gallery only):

Save your 1-2-3 file as usual (/File Save). Run The Worksheet Connection and follow the prompts to translate your graph. In Charting Gallery, get the graph as if had been created by Charting Gallery.

Transferring Data (Both Touchscreen and Vectra versions of Charting Gallery):

Save your spreadsheet in DIF format using 1-2-3's Translate Utility. Your file should have no numeric symbols (e.g. %) in numeric data. Data must be oriented such that X-axis data (textual or numeric) is in the first column and the next ten columns (five for the Touchscreen) contain numeric data for Y-axis variables. If the first one or two rows are textual, they are treated as legends. In Charting Gallery, get the data from the Get and Save screen using the Get Data function.

To PFS:Graph:

Save your spreadsheet in DIF format using 1-2-3's Translate Utility. In PFS:Graph, go to the /Get/Save/Remove menu to get your file.

To Picture Perfect:

Save your spreadsheet in DIF format using 1-2-3's Translate Utility. In Picture Perfect, get the file by pressing USER AIDS, then Load Data.

To Series 100 Graphics:

Save your spreadsheet in DIF format using 1-2-3's Translate Utility. In Series 100 Graphics, on the Charts menu, specify your file name, set Transfer Data In,* and then press Data to get your file.

To DSG/3000:

Save all or part of your spreadsheet in ASCII format using the /Print File command. The data you save must have no variable labels, column headings, special numeric formats, etc. Transfer the file to the HP 3000 in ASCII using AdvanceLink. In DSG/3000 you will need to fill in the Data Definition menu found in the Create Chart level of DSG/3000. The data coming into DSG/3000 is considered to be in fixed form. You may need to look at your ASCII file to determine positions of each field.

To HP Map:

Save all or part of your spreadsheet in ASCII format using the /Print File command. Note that your file must contain only zone/place names and their corresponding data value fields, one record per row. Transfer the file to the HP 3000 in ASCII using AdvanceLink. Before you run HP Map, look at your ASCII file and write down the columnar position of each field using a word processor or the MS-DOS type command. In HP Map, load the file from the Select Data File menu. Fill in the menu with the information you wrote down.

DATABASES

To Condor:

Save your spreadsheet in ASCII format using the Print File command. In Condor, use the READ command to get the file.

To dBase II, III:

Save your spreadsheet in ASCII format using the Print File command. In dBase II or III, use the APPEND command to read in your data to a predefined dataset.

To Executive Card Manager (ECM):

Save your spreadsheet in DIF format using the Translate Utility. Use ECM's Transfer In feature to load the file. Each line of the DIF file is made into a separate ECM card.

To Personal Card File:

Same as Executive Card Manager.

To R:Base 4000:

Save your spreadsheet in DIF format using the Translate Utility. In R:Base 4000, use the Load . . . as DIF command to bring in the file.

To R:Base 5000:

Use R:Base 5000's FileGateway to translate your .WKS or .WK1 file to R:Base format.

Note: To use these procedures, you need to be an experienced user of both software packages involved in the data transfer. You should also be aware that these procedures are *not* supported by Hewlett-Packard. They were developed to work with existing products—not included in the original product designs. These procedures may not work under all circumstances or with all version combinations.

Please send your additions or updates for this article to the *Communicator* editor—so that we may share them with other users in future issues.

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MemoMaker... for the Touchscreen/150

Encyclopedia Articles	This is the third Encyclopedia article on this product.
Product Description	MemoMaker is an easy to use word processor on the Touchscreen and the IBM PC. This discontinued product, superseded by Executive MemoMaker on both the Touchscreen and Vectra, allows you to create simple memos without learning a complex word processing system.
Data Files	MemoMaker can save two kinds of files (Roman-8 on the Touchscreen, IBM-8 on the IBM PC): Document files—WordStar compatible, Roman-8 text files Format files—binary MemoMaker configuration data files MemoMaker and Executive MemoMaker files are interchangeable except for the bold and underline enhancements they can store. In MemoMaker, you can either toggle Enhance: Underln or Enhance: Bold; in Executive MemoMaker you can turn on both at the same time. MemoMaker can retrieve: MemoMaker files WordStar files ASCII files (.PRN files, etc.)
Features For Bringing Data In	The Get Memo function of MemoMaker lets you read in both document and ASCII files. Lines longer than 79 characters will be split onto separate lines.
Features and Procedures For Moving Data Out	The MemoMaker Save Memo function in the File Keys screen lets you save out document files. To convert MemoMaker documents to ASCII: MemoMaker stores formatting in the eighth bit of the last character of every word-wrapped word. To strip off the formatted bits you can: Use the AdvanceLink StripIt program, which was included with AdvanceLink/150 versions prior to A.03.00. It is also available from the North American Response Center—(800)-858-8867. -OR- Equivalently, you can manually "stripit" by using AdvanceLink to transfer the file to another computer and back as 7-bit ASCII. Bring the file into Executive MemoMaker as a Document File *, and then save it out as an ASCII File *.

Data Transfer Procedures

SPREADSHEETS

To Lotus 1-2-3:

Convert document file to ASCII with .PRN extension. In 1-2-3, choose /File Import (/FI).

To Symphony:

Convert document file to ASCII with .PRN extension. In Symphony, choose /File Import (/FI).

WORD PROCESSORS

To AdvanceWrite:

Convert document file to ASCII. In AdvanceWrite, convert the file to AdvanceWrite using the Filing, Translate function.

To Executive MemoMaker:

No conversion is necessary. In Executive MemoMaker, bring in the file using the File Keys.

To MS Word:

Convert document file to MS Word format with MS Word's WordStar CONVERT utility (give it a .DOC extension!). In MS Word, bring in the file with Transfer, Load.

To MultiMate:

Convert document file to ASCII with a .DOC extension. Use MultiMate's FILECONV utility tc convert the file to MultiMate format.

To WordStar 2000:

Convert document file to ASCII. In WordStar 2000, bring in the file with Block, Insert a file.

To Word/150:

Convert document file to ASCII. Transfer the file up to the HP 3000 using AdvanceLink. Use HP Word/3000 Convert Document Menu to convert it to HP Word/3000 format. Return to P.A.M. and use the installed Word/150 3000->Word150 function to convert it to Word/150 format and transfer it down to the Touchscreen.

To HP Slate:

Convert document file to ASCII. Transfer the file to the HP 3000 as ASCII, and bring it into HP Slate; it will be automatically converted.

To HP Word:

Convert document file to ASCII. Transfer the file to the HP 3000 as ASCII. Use HP Word/3000 Convert Document Menu to convert it to HP Word format.

To TDP/3000:

Convert document file to ASCII. Transfer the file to the HP 3000 as ASCII, and bring it into TDP/3000 with the T command.

GRAPHICS

To Picture Perfect:

Convert document file to ASCII. In Picture Perfect, choose Load Data.

To Series 100 Graphics:

Convert document file to ASCII. In Series 100 Graphics, choose Transfer Data In* on the Charts menu, to bring in the ASCII file.

To DSG/3000:

Convert document file to ASCII and transfer it to the HP 3000. In DSG/3000, use the Data Definition menu to bring in the ASCII file.

To HP Map:

Put document in an ASCII print file format, and convert it to ASCII. Transfer it to the HP 3000 as ASCII, and use HPMap's Select Data File menu to bring the data in.

DATABASES

To Condor:

Put document in Condor's "M" option format, and convert it to ASCII. Condor will recognize this type when it READs it.

To dBase II, III:

Put document in quoted BASIC form, and convert it to ASCII. In dBase, use the APPEND command to add data to a defined dataset.

To Executive Card Manager:

Put document in quoted BASIC form, and convert it to ASCII. In Executive Card Manager, use Copy Cardfile to Transfer In the file in BASIC Format.

Note: To use these procedures, you need to be an experienced user of both software packages involved in the data transfer. You should also be aware that these procedures are *not* supported by Hewlett-Packard. They were developed to work with existing products—not included in the original product designs. These procedures may not work under all circumstances or with all version combinations.

Please send your additions or updates for this article to the *Communicator* editor—so that we may share them with other users in future issues.

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MS Word... for the Touchscreen/150 and Vectra

Encyclopedia Articles	This is the second Encyclopedia article on this product.
Product Description	MS Word is a powerful word processing tool for producing a variety of documents, including letters, memos, brochures, pamphlets and even book-length manuscripts. It is the ideal word processor for use with the HP LaserJet family of printers because of the wide range of LaserJet fonts it supports, and the typeset-quality output it produces.
Data Files	MS Word/Touchscreen creates and stores a document file with internal MS Word formatting (Roman-8): <name>.DOC Upon opening an existing file, MS Word renames the file: <name>.BAK It also creates a temporary file, with a .TMP extension, on the MS Word application disc. MS Word also creates MS Word-specific files with these extensions: .GLY–Glossary files .STY–Style sheet files .PRD–Printer driver files .INI–MS Word initialization files Print Merge is MS Word's mail-merge function. It requires three files for merging: a header file, containing the Print Merge variable names, a document form file into which the data is to be merged, and a data file containing the data to be merged. You can create all three files in MS Word, or bring in the last one (the data file) from another program in quoted BASIC format. To Merge, you simply bring in the document form file with Transfer, Load, and do a Print, Merge.
Features For Bringing Data In	To bring a file into MS Word, use the Transfer, Load command. Set the Read only: field to YES if you wish to keep the file from being altered in MS Word. MS Word also has a WordStar conversion utility, CONVERT that will allow you to convert WordStar files to MS Word format.

Features For Moving Data Out

There are two ways to save out a file from MS Word. The first, Transfer Save, saves a file with or without embedded MS Word formatting. The second way, Print File, saves a printed image of a file on disc.

You can create two different kinds of ASCII files with MS Word. One method puts a hard carriage return (CR-LF) at the end of each line, and the other puts a carriage return only at the end of each paragraph. Use the first method for integration with almost all PC applications, and the second method only with applications which will re-word-wrap your text.

Method 1

1. Copy the PLAIN.PRD printer driver to the MS Word application disc from the MS Word utility disc.
2. In Format, Division, set these values:

   Margin Top: 0

   Margin Bottom: 0
3. In Print, Options, specify:

   Printer: PLAIN.PRD
4. In Print, File, specify the file name to convert to.

This method produces a printed image of the file without any enhancements.

Method 2

Do a Transfer, Save and specify the file name to convert to. Before you hit [Return], [Tab] to the **formatted:** field and type NO.

This method produces an entirely unformatted file with hard carriage returns only at the end of each paragraph.

Data Transfer Procedures

SPREADSHEETS

To Lotus 1-2-3:

Convert to ASCII with .PRN extension. In 1-2-3, choose /File Import (/FI).

To Symphony:

Convert to ASCII with .PRN extension. In Symphony, choose /File Import (/FI).

WORD PROCESSORS

To AdvanceWrite:

Convert document file to ASCII with Print File. In AdvanceWrite, convert the file to AdvanceWrite using the Filing Translate function.

To Executive MemoMaker:

Convert document file to ASCII with Print File. In Executive MemoMaker, bring in the file using the File Keys.

To MemoMaker:

Convert document file to ASCII with Print File. In MemoMaker, bring in the file with Get Memo.

To MultiMate:

Convert document file to ASCII with a .DOC extension using Print File. Use MultiMate's FILECONV utility to convert the file to MultiMate format.

To WordStar:

Convert document file to ASCII with Transfer Save unformatted, and then bring it into WordStar as usual.

To WordStar 2000:

Convert document file to ASCII with Transfer Save unformatted. In WordStar 2000, bring in the file with Block, Insert a file.

To Word/150:

Convert document file to ASCII with Print File. Transfer ASCII file to HP Word/3000 using AdvanceLink. Use HP Word/3000 Convert Document Menu to convert it to HP Word format. Return to P.A.M. and use the installed 3000->Word150 function to convert it to Word/150 format and transfer it down to the Touchscreen.

To HP Slate:

Convert document file to ASCII Print File. Transfer the file to the HP 3000 as ASCII, and bring it into HP Slate; it will be automatically converted.

To HP Word:

Convert document file to ASCII with Print File. Transfer the file to the HP 3000 as ASCII. Use HP Word/3000 Convert Document Menu to convert it to HP Word format.

To TDP/3000:

Convert document file to ASCII with Print File. Transfer the file to the HP 3000 as ASCII, and bring it into TDP/3000 with the TEXT command.

GRAPHICS

To Picture Perfect:

Convert document file to ASCII. In Picture Perfect, choose Load Data.

To Series 100 Graphics:

Convert document file to ASCII. In Series 100 Graphics, choose Transfer Data In* on the Charts menu, to bring in the ASCII file.

To DSG/3000:

Convert document file to ASCII. In DSG/3000, use the Data Definition Menu to bring in the file.

To HP Map:

Convert document file to ASCII. In HP Map, use the Select Data File menu to bring in the file.

DATABASES

To Condor:

Put document in Condor's "M" option format and convert it to ASCII. Condor will recognize this type when it READs it.

To dBase II, III:

Put document in quoted BASIC format and convert it to ASCII. In dBase, use the APPEND command to add the data to a defined dataset.

To Executive Card Manager:

Put document in quoted BASIC format and convert it to ASCII. In Executive Card Manager, use Copy Cardfile to Transfer In the file in BASIC Format.

To R:BASE 4000:

Put document in quoted BASIC format and convert it to ASCII. In R:BASE, do a LOAD. . .AS ASCII to append the data to a defined table.

To R:BASE 5000:

Put document in delimited or fixed field format and convert it to ASCII. Use the R:BASE FileGateway utility to append the data to a defined table.

Note: To use these procedures, you need to be an experienced user of both software packages involved in the data transfer. You should also be aware that these procedures are *not* supported by Hewlett-Packard. They were developed to work with existing products—not included in the original product designs. These procedures may not work under all circumstances or with all version combinations.

Please send your additions or updates for this article to the *Communicator* editor—so that we may share them with other users in future issues.

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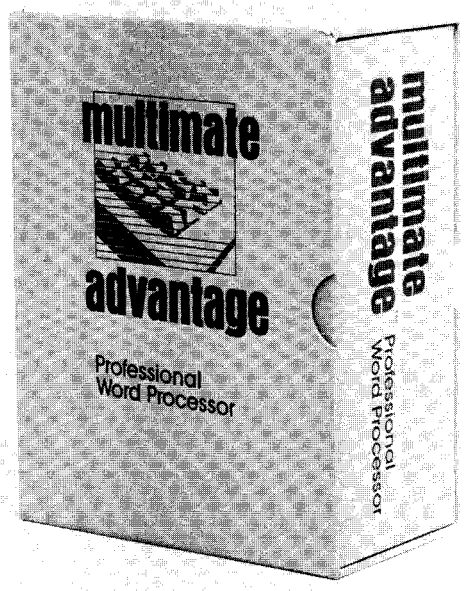
multimate
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Word Processor

MultiMate and MultiMate Advantage... for the Touchscreen/150 and Vectra

Encyclopedia Articles	This is the second Encyclopedia article on this product.
Product Description	MultiMate is a full function word processor which offers a menu driven interface for document creation and modification. It is very similar to the Wang word processor. MultiMate includes a spelling checker and a merge/print utility. MultiMate Advantage contains everything in MultiMate plus a table of contents generator, line and box drawing, the On-File information manager with additional mail merge capabilities, etc. MultiMate version 3.29 is available from HP for the HP Touchscreen. MultiMate 3.31 and MultiMate Advantage version 3.6 are available from HP for the HP Vectra.
Data Files	MultiMate produces and uses binary files with the .DOC extension. The eighth bit is used to access the extended character set, rather than for formatting as in MemoMaker and WordStar. All versions of MultiMate can save files in ASCII format. MultiMate Advantage versions 3.5 and 3.6 can also save files in these formats: COMM DCA All versions of MultiMate can retrieve files in these formats: ASCII DIF MultiMate Advantage versions 3.5 and 3.6 can also retrieve files in these formats: COMM DCA DIF VCDIF (VisiCalc format) Note: The DCA and VCDIF conversion utilities are not included in the MultiMate package, but are available upon written request. To order, contact MultiMate's Customer Service Department: MultiMate International Corporation, 52 Oakland Avenue, North, East Hartford, CT 06108 USA

All versions of MultiMate include MERGE functions for such uses as mailing labels and form letters. MultiMate version 3.31 and MultiMate Advantage have additional features that allow you to merge documents with most databases. MultiMate version 3.29 has very strict rules for merge-item format so that merging with databases is possible but difficult. MultiMate merge functions are detailed in the next section.

Features for Moving Data In

To convert files to or from MultiMate's .DOC format, use the File Conversion utility that comes with the product. On the Touchscreen, you run this utility from P.A.M. On the Vectra go to MultiMate's Main Menu, you choose Advanced Utilities, then File Conversion. MultiMate then prompts you for the source and destination file names and file formats.

MultiMate Advantage versions 3.5 and 3.6 also allow you to choose Edit Conversion Default(s) from the File Conversion menu. Using this option, you can change default conversion rules (such as the number of lines per page, end of line delimiters, whether or not to include the document summary screen in the destination file, etc.). This is explained in detail in section A-3 of the Advanced User's Guide.

To merge a file from another program with MultiMate 3.29, follow the four steps below. Please note that this process can be time consuming.

1. In the other program, save the file in ASCII or DIF format.
2. Convert the file to MultiMate's .DOC format using the File Conversion utility.
3. Load the file into MultiMate and edit it to put it into Secondary Document format. This format is documented under MERGE in the MultiMate Reference Manual. You can create a MultiMate Key Procedure to automate this process. Key Procedures are also explained in the MultiMate Reference Manual.
4. Merge the document with your Primary Document, as explained in the MultiMate Reference Manual.

To merge a file from another program with MultiMate 3.31 or MultiMate Advantage, use MultiMate's "Sequential Data File Merge" or "Random Data File Merge" capability. This is explained in detail in the "Merging With A Database" section of the Advanced User's Guide. In brief, you need to follow these three steps:

1. In the other program, save the file in sequential, (delimited) format.

-OR-

Generate a Random Data File (Report).

2. Set up the Define Block. This is a block of instructions at the beginning of your Merge Document (i.e., your form letter). It defines file type and all of your merge items. When used with sequential data files, it can also define delimiters, field, and record separators if these are not the MultiMate defaults of " (double quotes), , (commas), and <CR> (carriage return) <LF> (linefeed), respectively.
3. Merge print using MultiMate's Merge Document utility.

Features for Moving Data Out

To convert MultiMate documents to other formats, use the File Conversion utility. This is explained in the previous section.

Data Transfer Procedures

SPREADSHEETS

To Lotus 1-2-3:

Save your document in ASCII format with .PRN extension using MultiMate's File Conversion Utility. Refer to the Lotus 1-2-3 section of this Integration Guide for more on how you should set up your document so that it can be brought in to 1-2-3. Use 1-2-3's /File Import command to load the file.

To Symphony:

Save your document in ASCII format with .PRN extension using MultiMate's File Conversion Utility. Refer to the Symphony section of this Integration Guide for more on how you should set up your document so that it can be brought in to Symphony. Use Symphony's Services File Import command to load the file.

WORD PROCESSORS

To AdvanceWrite:

Save your document in ASCII format using MultiMate's File Conversion Utility. Bring the file into your AdvanceWrite document using Filing([ScrLck][Break]), Translate ([T]), Standard ASCII to AdvanceWrite ([A]), and specify the ASCII file name.

To Executive MemoMaker:

Save your document in ASCII format using MultiMate's File Conversion Utility. In EMM, load the file by pressing File Keys, then Get Memo, then ASCII File so that the asterisk (*) appears in the ASCII File softkey.

To MemoMaker:

Same as Executive MemoMaker.

To MS Word:

Save in ASCII format using the File Conversion Utility. Name your ASCII file with a .DOC extension. Load the document into MS Word with the Transfer, Load command.

To MultiMate:

You can transfer documents from any version of MultiMate to any other version. If a document contains an enhancement that is not supported by the version it is being transferred TO, the destination version will not be able to print that enhancement, and it may be deleted.

To WordStar:

Same as WordStar Professional.

To WordStar Professional:

Save your document in ASCII format using MultiMate's File Transfer Utility. Load into WordStar Professional using Open Non-Document (Touchscreen) or [N] (Vectra).

To WordStar 2000:

Save your document in ASCII format using MultiMate's File Transfer Utility. Load the document into WordStar 2000 using the Block Insert command.

To Word/150:

This is only possible via the HP Word/3000 converting utility. Save your document in ASCII format using MultiMate's File Conversion Utility. To transfer the file into Word/150, refer to the Word/150 article in this issue.

To HP Slate:

Save your document in ASCII format using MultiMate's File Conversion Utility. Use AdvanceLink to transfer the document to the HP 3000 in ASCII format. HP Slate will automatically convert the file as you bring it in.

To HP Word/3000:

Save your document in ASCII format using MultiMate's File Conversion Utility. Use AdvanceLink to transfer the document to the HP 3000 in ASCII format. In HP Word/3000, use the built in converter to translate the file to HP Word format.

To TDP/3000:

Save your document in ASCII format using MultiMate's File Conversion Utility. Use AdvanceLink to transfer the document to the HP 3000 in ASCII format. TDP can read the file in this format. Note that you must either create your MultiMate document with TDP commands included, or add TDP commands when you bring the file into TDP.

GRAPHICS

To Charting Gallery:

In MultiMate, enter your data with blanks or commas as delimiters between columns; no non-numeric symbols (e.g., %) for numeric data. Data must be oriented such that X-axis data (textual or numeric) is in the first column and the next ten columns (five for the Touchscreen version) contain numeric data for Y-axis variables. If first one or two rows are textual, they are treated as legends. Save the data in ASCII format using MultiMate's File Conversion Utility.

To Picture Perfect:

In MultiMate, enter your data in fixed format (i.e. each field has a specified length and column position within a record, all records are the same size). Write down the number of records, start and length of data fields within the records. Save your document in ASCII format using MultiMate's File Conversion Utility. In Picture Perfect, use the Load Data function to load your fixed format ASCII file. Picture Perfect will ask you for the information you wrote down.

To Series 100 Graphics:

In MultiMate, enter your data with blanks or commas as delimiters between columns. No non-numeric symbols, such as %, for numeric data. Save your data in ASCII format using MultiMate's File Conversion Utility. In Series 100 Graphics, use the Transfer Data In function to get the data.

To DSG/3000:

In MultiMate, enter your data in fixed format (i.e. each field has a specified length and column position within a record, all records are the same size). No variable labels, column headings, or special numeric symbols. Write down the number of records, start and length of data fields within the records. Save your document in ASCII format using MultiMate's File Conversion Utility. Transfer the file to the HP 3000 in ASCII using AdvanceLink. In DSG/3000 you will need to fill in the Data Definition menu found in the Create Chart level of DSG/3000. DSG/3000 will prompt you for the information you wrote down.

To HP Map:

In MultiMate, enter your zone/place and data value fields in fixed format (i.e. each field has a specified length and column position within a record, all records are the same size). No variable labels, column headings, or special numeric symbols. Write down the number of records, start and length of data fields within the records. Save your document in ASCII format using MultiMate's File Conversion Utility. Transfer the file to the HP 3000 in ASCII using AdvanceLink. In HP Map, load the file from the Select Data File menu. Fill in the menu with the information your wrote down.

DATABASES

To Condor:

In MultiMate, you can enter your data in several formats as detailed in the Condor section of the Integration Guide. In most cases, the simplest way to enter the data is in Condor's RPG Format: Each field occupies the same number of bytes in the file as the length of its data entry field on the dataset form. Numeric data is right-justified. No separator characters exist between fields. Records are separated by <CR> <LF>. (To get a <CR> <LF>, press [Enter] (Vectra) or [Return] (Touchscreen) after entering each record.)

Save your document in ASCII format using MultiMate's File Conversion Utility. Use Condor's READ command to load the file.

To dBase II, III:

In MultiMate, you can enter your data in either "SDF" or "DELIMITED" (quoted basic)format, as detailed in the dBase II section of the Integration Guide. In most cases, it is easiest to use the "DELIMITED" option: Variable-length record. Fields occupy only as many bytes as required to contain the data; no leading or trailing blanks. Fields that will be interpreted as ASCII strings are enclosed in quotation marks ("). Fields are separated by commas unless otherwise specified. Records are separated by <CR> <LF> characters. (To get a <CR> <LF>, press [Enter] (Vectra) or [Return] (Touchscreen) after entering each record.)

Translate the data to ASCII format using MultiMate's File Translate Utility. When prompted, specify that you do not want Carriage Returns or Line Feeds in your destination document. Use dBase's APPEND command to read in the data.

To Executive Card Manager:

In MultiMate, enter your data in quoted basic format, as explained above in the "to dBase II or III" section. Each record becomes a card in your ECM cardfile. In ECM, use the Transfer In function to retrieve your data.

To Personal Card File:

Same as Executive Card manager.

To R:BASE 4000:

In MultiMate, enter your data in quoted basic format, as explained above in the "to dBase II or III" section. In R:BASE 4000, retrieve the data using a LOAD... AS ASCII. This appends your data to a defined table.

To R:BASE 5000:

R:BASE 5000 can retrieve ASCII files in two different formats, but the following is the easiest to create in most cases. In MultiMate, enter your data in fixed format (i.e. each field has a specified length and column position within a record, all records are the same size). Write down the number of records, start and length of data fields within the records. Save your document in ASCII format using MultiMate's File Conversion Utility. In R:BASE 5000, use the FileGateway utility to translate the ASCII file to R:BASE format.

Note: To use these procedures, you need to be an experienced user of both software packages involved in the data transfer. You should also be aware that these procedures are *not* supported by Hewlett-Packard. They were developed to work with existing products—not included in the original product designs. These procedures may not work under all circumstances or with all version combinations.

Please send your additions or updates for this article to the *Communicator* editor—so that we may share them with other users in future issues.

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Painter... for the Touchscreen/150

Encyclopedia Articles	This is the first Encyclopedia article on this product.
Product Description	Painter is a highly interactive MacPaint-like paint program (raster graphics), available on the Touchscreen only, that lets you create works of art that include freehand sketches, geometric shapes, and text with a variety of attribute options. Painter is supported through the Employee Contributed Program.
Data Files	Painter stores a saved picture <name> in: <name>.PIC, a Painter picture file (Roman8)
Features For Bringing Data In	Painter can only read a picture file created with Painter. It uses raster-based graphics, whereas most other HP graphics packages are vector based.
Features For Moving Data Out	Painter can create only its own "picture" file, which cannot be used in other HP graphics applications.

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Personal Card File ... for the Touchscreen/150 and Vectra

Encyclopedia Articles	This is the second Encyclopedia article on this product.
Product Description	Personal Card File (PCF) provides management of information through rotary card file type of interface. PCF enables the user to add cards, sort cards, erase cards, update cards, and dial phone numbers automatically.
Data Files	PCF creates five file types: ■ Each time a cardfile is created three files are created: –.PIX file for the index of each cardfile –.PDT file for the data, however, nothing is in the file until data is entered into the cards –.PFM file for the card form ■ Holding files are created during the Transfer In and Transfer Out operation. No special filename or extension is automatically given. A holding file is created in quoted BASIC format. ■ Print files are standard ASCII files. Simply, choose Print To File to print to disc.
Features For Bringing Data In	Through the Transfer In feature quoted BASIC can be brought into PCF. Each line is made into a separate PCF card. –From the Main Copy Menu choose Transfer In – Type the holding file name, then press [Return]. The fields in your PCF card form must be in the same order as the corresponding fields in the file from which you are transferring the information (the source file). Personal Card File (PCF) cardfiles can be converted to ECM format through the use of the PCF-TO-ECM Conversion Utility which is available with ECM. The Using Executive Card Manager manual clearly details the steps to convert the files.
Features for Moving Data Out	Through the Transfer Out feature quoted BASIC formatted files can be transferred to other applications. –Choose Copy Cardfile. –Choose Transfer Out Type the holding file name. –Press [Return]. The fields in the destination file will be in the same order as fields in your PCF card form. ASCII files can also be created. From the Print Menu select Print To File.

Data Transfer Procedures

SPREADSHEETS

To Lotus 1-2-3:

Use the Transfer Out feature, select DIF format. Use the Lotus Translate Utility to convert the DIF file to a WKS file. Or, create an ASCII file (.PRN.) and use the Lotus /File Import command.

To Symphony:

See Lotus 1-2-3 above.

WORD PROCESSORS

To AdvanceWrite:

Create an ASCII file using Print to File.

To Executive MemoMaker:

Create an ASCII file using Print to File.

To MemoMaker:

Create an ASCII file using Print to File.

To MS Word:

Use the Transfer Out feature. In MS Word, use the PrintMerge feature.

To MultiMate:

Create an ASCII file using Print to File.
Use the MultiMate FILECONV Utility.

To WordStar:

Use the Transfer Out feature. In the WordStar master document insert the .DF <FILENAME> command, also insert the .RV <variable> commands.

To Word/150:

Create an ASCII file using Print to File.
Transfer the ASCII file to HP Word/3000 using AdvanceLink. Use HP Word/3000 Convert Document Menu to convert it to HP Word format. Transfer it back to the HP Touchscreen (150) using AdvanceLink.

To HP Slate:

Create an ASCII file using Print to File. Transfer the file to the HP3000 as 7-bit ASCII, and bring it into HP Slate; it will be automatically converted.

To HP Word:

Create an ASCII file using Print to File. Transfer the file to HP3000 as 7-bit ASCII. Use HP Word/ 3000 Convert Document Menu to convert it to HP Word format.

To TDP/3000:

Create an ASCII file using Print to File. Transfer the file to the HP3000 as 7-bit ASCII, and bring it into TDP/3000 with the T command.

GRAPHICS

To Charting Gallery:

Create an ASCII file using Print to File. The first column should be numeric. Anything separated by a space or comma is considered a new column.

To Picture Perfect:

Create an ASCII file using Print to File. In Picture Perfect, choose Load Data.

To Series 100 Graphics:

Create an ASCII file using Print to File.

To HP Map:

Create an ASCII file using Print to File.

DATABASES

To Condor:

Use the Transfer Out feature. In Condor first use the SET DATE YY/MM/DD command. Then, use the READ <DATABASE> <HOLDING FILE> command.

To dBase II, III:

Use the Transfer Out feature. In dBASE use the APPEND FROM <HOLDING FILE> DELIMITED command.

To Executive Card Manager:

Use the PCF-TO-ECM Conversion Utility available with Executive Card Manager.

To R:BASE 4000:

Use the Transfer Out. Bring the file into R:BASE 4000 as a quoted BASIC file.

To R:BASE 5000:

Use the Transfer Out feature. Use the FileGateway menu in R:BASE 5000 and bring the file in as a quoted BASIC file.

Note: To use these procedures, you need to be an experienced user of both software packages involved in the data transfer. You should also be aware that these procedures are *not* supported by Hewlett-Packard. They were developed to work with existing products—not included in the original product designs. These procedures may not work under all circumstances or with all version combinations.

Please send your additions or updates for this article to the *Communicator* editor—so that we may share them with other users in future issues.

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PFS:Graph ... for the Touchscreen/150 and Vectra

Encyclopedia Articles	This is the second Encyclopedia article on this product.
Product Description	PFS:Graph is a very easy-to-use data charting application, developed by Software Publishing Company, that lets you create bar, line, pie, and area charts.
Data Files	PFS:Graph lets you save a chart <name> as: <name>, a chart file including chart description and data <name>.COL, chart file where color option has been specified <name>, a graphics file which is the chart printed to a disc file PFS:Graph can retrieve data (Roman8 on Touchscreen, IBM-8 on Vectra) from: PFS:File file Multiplan SYLK (.SLK) file DIF file
Features For Bringing Data In	The Get/Save/Remove menu lets you read data from PFS:File, Multiplan, and DIF files. 1. Specify graph types for graphs A, B, C, D on the Define Chart menu. 2. On the Get/Save/Remove menu select the appropriate source file option, specify the file name, and indicate the graph for the retrieved data; then press Continue. 3. On the subsequent menu, fill in specifications for X Data, Y Data, and X Data format; then press Continue to retrieve the data. 4. Continue using PFS:Graph to design chart using retrieved data.
Features For Moving Data Out	PFS:Graph graph files are product-specific to PFS:Graph and cannot be integrated with other applications. However, a PFS:Graph printed to a disc file via the Print menu can be included in a PFS:Write document.
Data Transfer Procedures	**WORD PROCESSORS** **To PFS:Write:** To include a PFS:Graph graph in a PFS:Write document, first print the graph to a disc file. On the Print menu of PFS:Graph, specify: ■ **Selection**—the printer type to which you will eventually print your PFS:Write document ■ **Print Data option**—N (no)

- **Print to option**—name of file contain output of printing of graph (not default PRN:)

Within PFS:Write, use the command ***GRAPH filename*** where you want the graph to be included in your document. Although you cannot view the graph within PFS:Write, when the document is printed the graph will be included at the appropriate place.

Note: To use these procedures, you need to be an experienced user of both software packages involved in the data transfer. You should also be aware that these procedures are *not* supported by Hewlett-Packard. They were developed to work with existing products—not included in original product designs. These procedures may not work under all circumstances or with all version combinations.

Please send your additions or updates for this article to the *Communicator* editor—so that we may share them with other users in future issues.

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Picture Perfect... for the Touchscreen/150 and Vectra

Encyclopedia Articles	This is the third Encyclopedia article for this product.
Product Description	Picture Perfect is a powerful data charting package, developed by Computer Support Corporation, that lets you make line, bar, bar/line (Vectra only), pie, and scattergram charts. You have great flexibility in changing the look of the chart by specifying exact titling location, bar types and placement, axis type and scaling, etc.
Data Files	Picture Perfect stores a saved chart <name> as: <name>.CSC, a chart file containing chart description and data <name>.CSG, a graphics file used to quickly redisplay the chart to the screen (cannot be later edited) <name>.PLT, (Vectra only), a file of HPGL commands that can be copied to the plotter for output There is no guarantee that Vectra and Touchscreen chart files are compatible. Picture Perfect can retrieve data (Roman8 on Touchscreen, IBM-8 on Vectra) from: DIF file ASCII data file, also called print file, local transfer file, quoted BASIC file
Features For Bringing Data In	The Load Data function of Picture Perfect lets you read in data from DIF and ASCII files with these limitations: Data must be in columnar format with no blank lines. For ASCII data, any delimiters can be used between variables; no non-numeric symbols (e.g. %) for numeric data. Data must be oriented such that X-axis and Y-axis data are in their own columns (not rows), since you specify a column of data for each of the x and y axis variables—not a row. To bring in data from a DIF or ASCII print file: 1. Choose chart type and start the appropriate program (Pie, Bar or Line). 2. Go to the Data Access menu by pressing USER AIDS and then Load DIF Row/Col. 3. For DIF file data, specify the file name and column numbers (in start fields) for the X-axis or segment labels, bar/line/pie data (ignore the starting record, number of records, delimiter and length fields); then press Load Data.

4. For ASCII file data, you can specify variable or fixed format data.

   For variable format data, specify the starting record, number of records, delimiter (e.g. quote, comma or, blank), and column numbers (in start fields) for the labels, bars/line/pie data; then press Load Data.

   For fixed format data, specify the starting record, number of records, and start and length of data fields within the record that are to be used for labels and chart data; then Load Data. To determine the exact layout of the data in your ASCII file, browse the file in File Manager or DOS (using the TYPE command).

5. Look at the Data menu to verify the retrieved data.

Features For Moving Data Out

The Picture Perfect chart file is product-specific and cannot be read by other applications. The graphics file (.CSG) can be viewed in Diagraph, but cannot be included within a diagraph; it can only be used for reference.

Data Transfer Procedures

GRAPHICS

To Diagraph:

For viewing only—save chart as graphics file, Save Graphics, and then display chart within Drawing Gallery with Load Graphics.

Note: To use these procedures, you need to be an experienced user of both software packages involved in the data transfer. You should also be aware that these procedures are *not* supported by Hewlett-Packard. They were developed to work with existing products—not included in original product designs. These procedures may not work under all circumstances or with all version combinations.

Please send your additions or updates for this article to the *Communicator* editor—so that we may share them with other users in future issues.

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R:BASE 5000... for the Touchscreen/150 and Vectra

Encyclopedia Articles	This is the first Encyclopedia article on this product.
Product Description	R:BASE 5000 is a full-featured relational database management system satisfying the needs of the novice to expert users for managing everything from simple lists to complex application systems. In addition to common database features, R:BASE 5000 provides an application generator, report writer, forms generator, and extensive capability for importing and exporting different data file types.
Data Files	R:BASE 5000 stores a database <name> in three files (USASCII only): <name>1.RBS, database structure definition <name>2.RBS, database data <name>3.RBS, index for key columns Applications generated in R:BASE 5000's EXPRESS are stored as: <name>.API, pointer file <name>.APX, compiled command file <name>.APP, ASCII command file R:BASE 5000 can read data from several file formats with its FileGateway feature; refer to the "Bringing Data In" section below. R:BASE 5000 can also write many different file formats with the UNLOAD DATA and PRINT commands. Refer to the "Moving Data Out" section that follows.
Features For Bringing Data In	The FileGateway menu of R:BASE 5000 gives you options for incorporating into database tables data from: –DIF files (from Lotus 1-2-3, Visicalc, etc.) –SYLK files (from Multiplan) –ASCII files with data fields in fixed locations –ASCII files with data fields separated by delimiters –LOTUS 1-2-3 worksheets –dBASE II databases –PFS:FILE files You can either incorporate the data into an existing database table (provided that the order, data types, and lengths of columns are identical), or FileGateway will automatically create a database table with data definitions based on the data in your file, which you can then easily modify.

Features For Moving Data Out

With the UNLOAD DATA and PRINT commands, you can store R:BASE 5000 data as:

–DIF files
–ASCII files with data fields separated by delimiters
–ASCII files with data fields in fixed locations
–SYLK files

R:BASE data to DIF file

–OPEN database
– OUTPUT filename.DIF
–UNLOAD DATA FOR table AS DIF
– OUTPUT SCREEN

R:BASE data to delimited ASCII file

–OPEN database
–OUTPUT filename
–UNLOAD DATA FOR table AS ASCII
–OUTPUT SCREEN

R:BASE data to fixed field ASCII file

First use REPORTS to create a report format for the desired layout of your fixed field file. Then create the file with:

–OUTPUT filename
–PRINT reportname
–OUTPUT SCREEN

R:BASE data to Multiplan SYLK

–OPEN database
–OUTPUT filename
–UNLOAD DATA FOR table AS MPLAN
–OUTPUT SCREEN

Data Transfer Procedures

SPREADSHEETS

To Executive Spreadsheet:

Save the R:BASE 5000 data to a DIF file (see "Features For Moving Data Out"). Then within Executive Spreadsheet, load the DIF file in column format with the command /S#L filename C.

To Lotus 1-2-3:

There are two ways to bring R:BASE 5000 data into 1-2-3: with the Lotus translate utility or with the file import command.

Save the R:BASE 5000 data to a DIF file (see "Features For Moving Data Out"). Next use the Lotus translate utility and follow the prompts to translate from a DIF to a spreadsheet file. Then use the /FILE RETRIEVE command within Lotus to load the spreadsheet.

Save the R:BASE 5000 data as a delimited ASCII file, making sure to specify the extension .PRN (see "Features For Moving Data Out"). Then use the Lotus the commands /FILE IMPORT NUMBERS filename to bring the data into your spreadsheet.

To Symphony:

Same as R:BASE 5000 to Lotus 1-2-3.

To Series 100 VisiCalc:

Same as R:BASE 5000 to Executive Spreadsheet.

To Deluxe VisiCalc/3000:

Save the R:BASE 5000 to a DIF file (see "Features For Moving Data Out"). Transfer the DIF file to the HP 3000 with AdvanceLink, using 7-bit ASCII transfer. Then within Deluxe Visicalc/3000, load the DIF file in column format with the command /S#L filename C.

WORD PROCESSORS

To AdvanceWrite:

R:BASE 5000 data can be used with Automatic Merge or as formatted data in AdvanceWrite.

For use with Automatic Merge, save your R:BASE data as a fixed field ASCII file: (currently the R:BASE DIF file will not work)

1. Within R:BASE 5000, use REPORTS to create a report format for your data that matches the maximum lengths of data fields you want to save. Use a single detail line, do not enter labels, headings or footings, don't use the dollar mask format, and set the page length to 0. Use the Set Report Heading option to specify "Remove the initial carriage return," however don't actually add a heading.
2. Save your R:BASE 5000 data to an ASCII fixed field file, using:

   OUTPUT filename
   PRINT reportname
   OUTPUT SCREEN
3. Then within AdvanceWrite, create a definition file describing the layout of the ASCII data file (the positioning of the fields within the file). Also create a standard document (your form letter) that includes "marks" for where the database data is to be included.

4. Finally, print your document with the merged data by using the Merge function.

To include formatted or columns of R:BASE data (saved as fixed field ASCII file) in a document:

1. Follow steps 1 & 2 above to create the ASCII file.
2. Within AdvanceWrite, first create an empty file and then use Filing and Translate ASCII to AdvanceWrite to bring the data in.

To Executive MemoMaker:

There is no "mail-merge" facility in Executive MemoMaker. To include formatted R:BASE data in a document, first follow steps 1 & 2 in "R:BASE 5000 to AdvanceWrite" to create a fixed field ASCII file. Then bring the data file into Executive MemoMaker using Get Memo and ASCII File.

To MemoMaker:

Same as R:BASE 5000 to Executive MemoMaker.

To MS Word:

R:BASE 5000 data can be used in the Print Merge function of MS Word, or simply as formatted data in a document.

For use with Print Merge:

1. Save the data to a delimited ASCII file (with extension .DOC) (see "Features For Moving Data Out"). Use the R:BASE editor to insert a line before the first line of data that names the fields in the file (e.g. field1, field2, field3).
2. Within MS Word, at the beginning of your main document, include a << DATAasciifile >> instruction, specifying the ASCII file (leave no space after DATA). Include field names (enclosed with MS Word << >>) within the document where the variable data should be placed.
3. To print the document with merged data, choose the Print Merge command with the main document loaded.

To bring formatted R:BASE 5000 data into an MS Word document, follow steps 1 & 2 in the "R:BASE 5000 to AdvanceWrite" section to create a fixed field ASCII data file (with file extension .DOC). Then use the Transfer Load command of MS Word to bring the data file in.

To MultiMate:

"Merging with a Database" (for "mail merge") is only available in MultiMate Advantage (for Vectra). Using R:BASE 5000 data with MultiMate (rev. 3.29 on Touchscreen) for "mail merge" is not practical since the data cannot be easily generated in the required format.

To use R:BASE 5000 data with MultiMate Advantage for mail merge:

1. Save the data to a delimited ASCII file (see "Features For Moving Data Out").
2. Within MultiMate Advantage, include a DEFINE block at the beginning of your document to define the data fields of the ASCII file of step 1. Within the document include the merge item names (corresponding to the defined field names) where you want the variable data to be placed (use Merge Code keys).
3. Then to print the documents using the R:BASE data, select the the "Merge Print Utility" option from the Main Menu. When specifying the merge data file, be sure to include a file extension or dot/no extension.

To bring formatted R:BASE 5000 data into a MultiMate document, follow steps 1 & 2 in the "R:BASE 5000 to AdvanceWrite" section to create an fixed field ASCII file. Then use the File Conversion utility (Advanced utility) to convert the ASCII file to MultiMate format. Alternatively you could create a DIF file from the R:BASE data and then use the File Conversion utility.

To WordStar Professional:

R:BASE 5000 data can be used in the MailMerge function of WordStar Professional, or simply as formatted data in a document.

For use with MailMerge:

1. Save the R:BASE 5000 data to a delimited ASCII file (see "Features For Moving Data Out").
2. Include at the beginning of your document the MailMerge dot commands to define the data file and data field locations within that ASCII file. Include the &fieldname& within the text of the document where the data is to be merged.
3. To print your documents, type M at the WordStar Opening Menu.

To bring formatted R:BASE 5000 data into a WordStar document, first follow steps 1 & 2 in the "R:BASE 5000 to AdvanceWrite" section to create a fixed format ASCII file. Then read the ASCII data file into WordStar as a non-document.

To WordStar 2000:

Same as to WordStar with the exception that you use special Option MailMerge functions (^OMx), instead of dot commands in step 2 to define the data file and data fields.

To Word/150:

There is no "mail-merge" facility in Word/150. To include ASCII formatted R:BASE data in a document, first follow steps 1 & 2 in R:BASE 5000 to AdvanceWrite. Transfer the file to the HP 3000 with AdvanceLink. Within HP Word/3000, use Convert File to convert the file to HP Word/3000 format; then save the document. Convert that file to HP Word/150 format by using the P.A.M. function 3000->Word150 (installed with Word/150).

To HP Slate:

There is no "mail-merge" facility in HP Slate. To include R:BASE data in a document, first follow steps 1 & 2 in "R:BASE 5000 to AdvanceWrite" to create a fixed field ASCII file. Transfer that file to the HP 3000 with AdvanceLink, using 7-bit ASCII transfer. Then bring the data file into HP Slate using the UTILITY and convert function keys to convert from EDIT/3000 (ASCII format) to HP Slate.

To HP Word:

R:BASE data can be used in form letters or included as columns of data in a document.

To use R:BASE 5000 data for user-defined variables in form letters within HP Word:

1. In R:BASE 5000, use REPORTS to create a report format for your data—place each variable on its own detail line and include one trailing blank detail line. Do not enter labels, headings or footings, don't use the dollar mask format, and set the page length to 0.
2. Save your R:BASE 5000 data to an fixed field ASCII file, using:

   OUTPUT filename
   PRINT reportname
   OUTPUT SCREEN

3. Transfer the ASCII file to the HP 3000 with AdvanceLink, using 7-bit ASCII transfer.
4. Within HP Word, bring in the ASCII file of step 2, using Convert File, and insert paragraph at the beginning defining your user-defined variable (one line per variable name).
5. Create or edit your form letter in HP Word inserting the desired user-variable names within the text. Then on the Print Document Menu use the "substitute data from" option, and press Print Document.

To bring formatted R:BASE 5000 data into an HP Word document, follow steps 1 & 2 in the "R:BASE 5000 to AdvanceWrite" section to create a fixed field ASCII file. Then use Convert File on the Task Selection menu to bring in the ASCII data file.

To TDP/3000:

To use RBASE:5000 data with TDP's mass mailing facility, follow steps 1-3 for "R:BASE 5000 to HP Word" with one exception–don't place a trailing blank detail line in your report format. The ASCII file created in this way is the "Addressee Information File." Create your document that contains the macro references (e.g. ^MA) for the variable data. Then use the TDP MAILER command, and follow prompts to generate the mass mailing.

GRAPHICS

To Charting Gallery:

1. Save the R:BASE 5000 data to a fixed format ASCII file following steps 1 & 2 in "R:BASE 5000 to AdvanceWrite." Note that you can also a DIF file as the transfer mechanism, but there are cases (e.g. R:BASE real numbers), where the data is not transferred properly.
2. In Charting Gallery use Get Data from the Get and Save menu, to bring the data into the current chart.

To Picture Perfect:

Save the R:BASE 5000 data to a DIF file (see "Features For Moving Data Out"). Then within Picture Perfect press USER AIDS and Load Row-DIF to display the Data Access menu, where you specify the DIF file and columns to be used.

To Series 100 Graphics:

Follow step 1 from "R:BASE 5000 to AdvanceWrite" to create a fixed format ASCII print file. Then within a Series 100 program, specify that file on the Charts menu, Transfer Data In, and then press Data to retrieve the data.

To DSG/3000:

1. Save the desired R:BASE 5000 data as a delimited ASCII file (see "Features For Moving Data Out").
2. Within the GRAPH program, specify on the Data Definition menu the data file, variable names, data types, and free field information (indicating relative order of fields in record). Then continue designing your chart, specifying variables to be used for chart data on the selected Chart menu.

To HP EasyChart:

Not practical—you would have to save data as a fixed format ASCII file and then use MAKESD.PUB.SYS to convert that file to an SD file to be used with HP EasyChart's Data File function.

To HP Map:

Using R:BASE 5000 data would only be applicable if a database table contained columns with map zone names (e.g. states) or location names (e.g. cities) and related data that matched those zones or locations found in an HP Map base map. Then you would save the R:BASE data (two columns: zone and related data) to a delimited ASCII file, transfer the file with AdvanceLink to the HP 3000 (seven-bit ASCII), and then use the Select Data File menu within HP Map, specifying free format layout.

DATABASES

To Condor:

Save the R:BASE data to a delimited ASCII file (see "Features For Moving Data Out"). Define a dataset in Condor that matches the R:BASE data. Then read the data into Condor using the command READ dataset filename.

To dBase II, III:

Save the R:BASE data to a delimited ASCII file (see "Features For Moving Data Out"). Define a dataset that matches the R:BASE data. Then read the data into dBase using the commands USE dataset and then APPEND filename DELIMITED.

To Executive Card Manager:

Save the R:BASE data to a delimited ASCII file (see "Features For Moving Data Out"). In ECM use Copy CardFile and Transfer In to create a cardfile with the data.

To Personal Card File:

Same as R:BASE 5000 to Executive Card Manager.

To R:BASE 4000:

R:BASE 4000 and R:BASE 5000 have the same database file structure, so no conversion is necessary. To move a database from one system to another you can copy the three database related files, as described in the "Files" section.

Note: To use these procedures, you need to be an experienced user of both software packages involved in the data transfer. You should also be aware that these procedures are *not* supported by Hewlett-Packard. They were developed to work with existing products—not included in the original product designs. These procedures may not work under all circumstances or with all version combinations.

Please send your additions or updates for this article to the *Communicator* editor—so that we may share them with other users in future issues.

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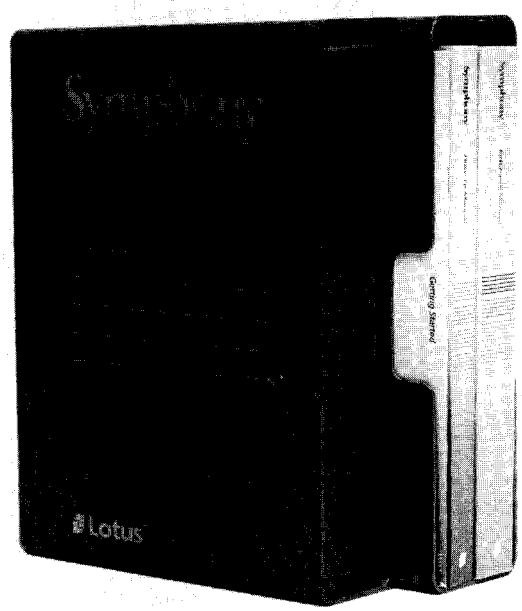
Lotus

Symphony . . . for Vectra and Touchscreen/150

Encyclopedia Articles	This is the first Encyclopedia article on this product.
Product Description	Symphony is a versatile business tool for managers and professionals which integrates spreadsheet, graphics, word processing, data base management, and communications. It solves the need for integrating data from all of the above applications. Symphony is available from HP for the HP Touchscreen and the HP Vectra.
Data Files	Symphony saves worksheet files in binary format, with the .WRK extension for Symphony 1.0, the .WR1 extension for Symphony 1.1. Symphony version 1.0 and 1.1 are forward compatible; i.e. you can bring a version 1.0 file into version 1.1. However, you need to use the Translate utility to bring a file from 1.1 into version 1.0, as described below. In some cases, very large files and certain formulas created in version 1.1 cannot be translated to version 1.0. This is explained in detail on the screen when you run the Translate utility. Symphony 1.1 and later versions can save files in these formats: ASCII files, called PRINT or .PRN files by Symphony. DIF dBase II (.DBF) .PIC files, which store graphs for use with the Symphony PrintGraph utility. A .PIC file cannot be brought back into Symphony. The /Graph Image-Save command stores the current graph as a .PIC file. (Note: The /Graph 1st-Settings (or 2nd-Settings) Name command saves the graph settings for later editing within Symphony. No special file is generated, the settings are associated with the .WRK file.) Lotus 1-2-3 release 1A or 2.0 (.WKS or .WK1) Symphony release 1.0 (.WRK) VisiCalc (.VC) Jazz Symphony 1.1 can retrieve files in these formats: ASCII DIF dBase II (.DBF) VisiCalc (.VC) Symphony 1.0 (.WRK) Jazz Lotus 1-2-3 release 1A or 2.0 (.WKS or .WK1)

Features for Bringing Data In

The Services File Retrieve command loads a worksheet.

The Services File Import command copies numbers and/or text from an ASCII (.PRN) file and enters them into a worksheet, starting at the cell pointer location.

If you specify TEXT, Symphony creates a separate left-aligned label containing the text in that line. The result is a single column of labels.

If you specify STRUCTURED, Symphony searches the print file for both numbers and any series of characters enclosed in double quotes. For each number, Symphony creates a number entry. For each double quoted label, Symphony creates a left-aligned label. Successive numbers and labels from the same line of the print file are placed in successive columns of the same row of the current worksheet. Data from the next print file line is placed in the next row of the worksheet. Any character that is not a number and is not enclosed in double quotes will be ignored.

The Translate utility modifies certain files for exchanging data between Symphony and other programs.

The Translate utility can convert the files listed below:

Source File Destination File
VisiCalc (.VC) to Symphony
DIF (.DIF) to Symphony
dBase II (.DBF) to Symphony
Jazz to Symphony
1-2-3 to Symphony 1.0 or 1.1
Symphony to DIF
Symphony to dBase II
Symphony 1.0 or 1.1 (.WRK or .WR1) to 1-2-3
Symphony to VisiCalc
Symphony to Jazz
Symphony 1.1 to Symphony 1.0

Features and Procedures for Moving Data Out

The Services File Save command saves a worksheet.

The Services Print Settings Destination File command saves a worksheet in ASCII format. The file will have a .PRN extension. To only save part of your worksheet, use the Services Print Settings Destination File Range command to select that part.

The Translate utility can also be used for moving data out. See above for more information.

Data Transfer Procedures

SPREADSHEETS

To Executive Spreadsheet:

Use the Translate Utility to convert your spreadsheet to .VC format. Load the file directly into Executive Spreadsheet by pressing the Load and Store softkey, the Load Sheet or /L.

To Lotus 1-2-3:

No translation is necessary, except to move files from Symphony Release 1.1 to Lotus 1-2-3 Release 1A. Formulas and functions not supported by Release 1A will be converted to labels.

To Symphony:

To convert a Symphony Release 1.1 file to Symphony Release 1.0, use the Translate Utility. Formulas and functions not supported by Symphony 1.0 will be converted to labels. Note that HP only sells Release 1.1.

To Series 100 VisiCalc:

Same as Executive Spreadsheet.

To Deluxe VisiCalc/3000:

Convert to .VC or DIF format as you would with Executive Spreadsheet. Use AdvanceLink to transfer the file to the HP 3000, select binary format. Bring it into Deluxe VisiCalc/3000 using the /SL command for VC files, or the /S#L command for DIF files.

WORD PROCESSORS

To AdvanceWrite I:

Save the worksheet in ASCII format using the Services Print Settings Destination File command. Bring the file into your AdvanceWrite document using Filing([ScrLck][Break]), Translate ([T]), Standard ASCII to AdvanceWrite ([A]), and specify the ASCII file name.

To AdvanceWrite II or III:

If your file is a spreadsheet or database, save it in DIF format using Symphony's Translate Utility. You can bring the DIF file into either a document or a list, as explained in the AdvanceWrite section of this integration guide. If your file is a document, save it in ASCII format and transfer it into AdvanceWrite II or III as you would into AdvanceWrite I.

To Executive MemoMaker (EMM):

Save your worksheet in ASCII format using the Services Print Settings Destination File command. In EMM, load the file by pressing File Keys, then Get Memo, then ASCII File so that the asterisk (*) appears in the ASCII File softkey.

To MemoMaker:

Same as Executive MemoMaker. Use Get Memo; there is no ASCII File option, but the file will be read in successfully.

To MS Word:

Save your worksheet in ASCII format with a .DOC extension. To do this, use the Services Print Settings Destination File command, then type a file name ending in .DOC. In MS Word, bring in the file with Transfer, Load.

To MultiMate:

If you are transferring a spreadsheet, save it in DIF format using Symphony's Translate Utility. In MultiMate, convert the file to MultiMate's .DOC format using the File Conversion utility. DIF files created by Symphony are always in COLUMN format. If you are transferring a document, save it in ASCII format using the Services Print Settings Destination File command. In MultiMate, convert it using the File Conversion Utility.

To WordStar:

Same as WordStar Professional.

To WordStar Professional:

Save your worksheet in ASCII format using the Services Print Settings Destination File command. In WordStar, press Open Non-Document (Touchscreen) or [N] (Vectra) to load the file.

To WordStar 2000:

Save in ASCII format using the Services Print Settings Destination File command. In WordStar 2000, load using the Block Insert (i) command.

To Word/150:

This is only possible via the HP Word/3000 converting utility. Save your worksheet in ASCII format using the Services Print Settings Destination File command. To transfer the file into Word/150, refer to the Word/150 section of this integration guide.

To HP Slate:

Save in ASCII format using the Services Print Settings Destination File command. Use AdvanceLink to transfer the file to the HP 3000 in 7-bit ASCII format. HP Slate will automatically convert this file as you bring it in.

To HP Word:

Save in ASCII format using the Services Print Settings Destination File command. Use AdvanceLink to transfer the file to the HP 3000 in 7-bit ASCII format. In HP Word, use the built in converter to translate the file to HP Word format.

To TDP/3000:

Save in ASCII format using the Services Print Settings Destination File command. Use AdvanceLink to transfer the file to the HP 3000 in 7-bit ASCII format. TDP can read the file in this format. Note that you must either create your Symphony file with TDP commands included, or add the commands when you bring the file into TDP.

TextCharts/PC ... for the HP Vectra PC

Encyclopedia Articles	This is the first Encyclopedia article on this product.
Product Description	TextCharts/PC is a very simple text chart maker (designed for the IBM PC/XT/AT and Vectra) that lets you create text/word charts with line or box annotations. This product is based on the Text portion of Series 100 Graphics.
Data Files	TextCharts/PC stores a saved text chart <name> in: <name>.GTX, a binary file containing a text chart (Roman8)
Features For Bringing Data In	TextCharts/PC can only read its own text chart files.
Features For Moving Data Out	TextCharts/PC creates its own text chart file, which cannot be used in other HP graphics applications.

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TDP/3000 ... Transfer to Touchscreen/150 and Vectra

Encyclopedia Articles	This is the second Encyclopedia article on this product.
Product Description	TDP (Text and Document Processor) is a text processing system for advanced text formatting. It consists of a line editor for producing text files, and a formatter for producing final output. Used with laser printing capabilities and environment files, impressive documents with merged text and graphics can be produced with near typeset quality.
Data Files:	A TDP/3000 text file is a standard MPE ASCII file. The TDP/3000 work file (used by the TDP editor) is called Kdddhhmm (ddd = day, hh = hour, mm = minute). TDP/3000 Spooler files are called Sdddhhmm. TDP/3000 also uses MPE spool files.
Features for Bringing Data In	Standard ASCII files can be read directly into TDP/3000. FIGURE files produced by HP 3000 graphics products, or converted by Graphics Curator/3000 can be included in TDP/3000 documents by using the ILLUSTRATION command.
Features For Moving Data Out	Remember that TDP source files will contain TDP formatting commands. Getting rid of these AFTER conversion can be tedious. A useful trick is to FINAL to a disc file and use the new file as input to the conversion techniques. This achieves a twofold advantage: (1) All the TDP commands are gone; (2) Margins, page lengths, etc. will be correct as defined by the source document.
Data Transfer Procedures:	**SPREADSHEETS** **To Lotus 1-2-3:** Transfer file to the PC using AdvanceLink, naming the file with a .PRN extension. In 1-2-3 choose /File Import (/FI). **To Symphony:** Transfer file to the PC using AdvanceLink, naming the file with a .PRN extension. In Symphony, choose /File Import (/FI).

WORD PROCESSORS

To AdvanceWrite:

Transfer file to the PC using AdvanceLink. In AdvanceWrite, convert the file to AdvanceWrite format using the Filing Translate function.

To Executive MemoMaker:

Transfer file to the PC with AdvanceLink, read into Executive MemoMaker as an ASCII file.

To MemoMaker:

Same as to Executive MemoMaker, except that MemoMaker does not have an ASCII option in the Get File menu. It will read in an ASCII file just the same.

To MS Word:

Transfer file to the PC with AdvanceLink, naming the file with a .DOC extension. Then use WordStar to MS Word CONVERT utility to convert from ASCII to MS Word format.

To MultiMate:

Transfer file to the PC with AdvanceLink, then use FILECONV in MultiMate to convert from ASCII to MultiMate format.

To WordStar:

Transfer file to the PC with AdvanceLink, and bring into WordStar as a non-Document.

To WordStar 2000:

Transfer file to the PC with AdvanceLink. In WordStar 2000, bring in the file with Block ([B]), Insert a file ([I]).

To HP Word/150:

Use the Convert softkey from the Main Menu of HP Word/3000 to convert the file to HP Word format. Use the installed Word/150 3000->WORD150 function to convert it to Word/150 format and transfer it it down to the Touchscreen.

To HP Slate:

HP Slate will automatically convert the file as it is read in.

Note: You will need to convert the file back to ASCII with the CONVERT utility in HP Slate if you want to use it again with TDP. See HP Slate, Features For Moving Data Out.

To HP Word:

Use the Convert softkey in the HP Word Main Menu and follow the instructions.

GRAPHICS

To Charting Gallery:

Use the ExecuDesk clipboard to capture TDP text from the screen, switch into Charting Gallery and COPY ALL from the Clipboard. Data must be in columnar format with blanks or commas as delimiters between columns. No non-numeric symbols (e.g. %) can be used for numeric data. See Charting Gallery Features for Bringing Data In for more details.

To Drawing Gallery:

Use the ExecuDesk clipboard to capture TDP text from the screen, switch into Drawing Gallery and COPY ALL from the Clipboard.

To Series 100 Graphics:

Use AdvanceLink to transfer the file to the PC. Go to the CHARTS menu, and specify Transfer Data In*, entering the ASCII file name.

To DSG/3000:

No conversion necessary. Data must be in columnar format with no blank lines and no titles. See DSG/3000 Features For Bringing Data In for details.

To HPMap:

No conversion necessary. Zone/place names corresponding to the data values must be in alphabetical order to be processed correctly. See HPMap Features For Bringing Data In.

FIGURE files may be included in a TDP/3000 document using the ILLUSTRATION command.

DATABASES

To Condor:

No conversion necessary. Use AdvanceLink to transfer the file to the PC. Use the READ command in Condor to read the file in. See Condor Features For Bringing Data In for more details.

To dBase II:

File must be in quoted BASIC format. Transfer file to the PC using AdvanceLink, naming the file with a .TXT extension. In dBase, use the APPEND command to add data to a defined dataset.

To Executive Card Manager:

File must be in quoted BASIC format. Transfer file to the PC using AdvanceLink. In Executive Card Manager, use Copy Cardfile to Transfer In the file in BASIC Format.

To Personal Card File:

Same as ECM.

To R:BASE 4000:

File must be in quoted BASIC format. Transfer file to the PC using AdvanceLink. In R:BASE 4000, do a LOAD... AS ASCII to append the data to a defined table.

To R:BASE 5000:

File must be in delimited or fixed field format. Transfer file to the PC using AdvanceLink. Use the R:BASE FileGateway utility to append the data to a defined table.

Note: To use these procedures, you need to be an experienced user of both software packages involved in the data transfer. You should also be aware that these procedures are *not* supported by Hewlett-Packard. They were developed to work with existing products—not included in the original product designs. These procedures may not work under all circumstances or with all version combinations.

Please send your additions or updates for this article to the *Communicator* editor—so that we may share them with other users in future issues.

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VisiCalc . . . for Touchscreen/150

Encyclopedia Articles	This is the second Encyclopedia article on this product.
Product Description	A popular business application, Series 100/ VisiCalc is a "tablet" or "worksheet" on which you perform comprehensive calculations. You can then manipulate these calculations and quickly view the different results.
Data Files	Series 100/VisiCalc normally produces a binary .VC file, which contains all the constants, variables, and equations that allow Series 100/ VisiCalc to reconstruct the spreadsheet every time you load it. Series 100/VisiCalc can also save files in these formats: DIF ASCII Series 100/VisiCalc can retrieve DIF files as well as .VC files.
Features for Bringing Data In	To load a DIF file into Series 100/VisiCalc, press the Load and Store softkey, then Load Data. VisiCalc prompts you for the information it needs. When asked for Row or Column orientation, type R or C depending on whether the DIF file was saved in Row or Column format.
Features for Moving Data Out	To save an ASCII file from Series 100/VisiCalc, (1) press Print Sheet, then Print to File, or (2) type /PF. Series 100/VisiCalc prompts you for the information it needs to save your file. Series 100/VisiCalc will add the .PRN extension to your file name. To save a DIF file from Series 100/VisiCalc, (1) press Load and Store, then Store Data, or (2) type /S#S<filename>. Series 100/VisiCalc prompts you for the information it needs to save your file. You can indicate Row or Column orientation, depending on what the other program needs.

Data Transfer Procedures

SPREADSHEETS

To Deluxe VisiCalc/3000:

Save your spreadsheet in the standard .VC format. Transfer the file to the HP 3000 using AdvanceLink, binary format. You can load the file into Deluxe VisiCalc/3000 without any conversion.

To Executive Spreadsheet:

Save your spreadsheet in the standard .VC format. You can load the file into Executive Spreadsheet without any conversion.

To Lotus 1-2-3:

Save your spreadsheet in the standard VisiCalc .VC format. In 1-2-3, use the Translate Utility to convert to 1-2-3 file format.

To Symphony:

Save your spreadsheet in the standard VisiCalc .VC format. In Symphony, use the Translate Utility to convert to Symphony file format.

WORD PROCESSORS

To AdvanceWrite I:

Save the spreadsheet in ASCII format by (1) pressing the Print Sheet, then Print to File softkeys, or (2) using the /PF command. Bring the file into your AdvanceWrite document using Filing([ScrLck][Break]), Translate ([T]), Standard ASCII to AdvanceWrite ([A]), and specify the ASCII file name.

To AdvanceWrite II or III:

Save your spreadsheet in DIF format by (1) pressing Load and Store, then Store Data, or (2) using the /S#S command. You can bring the DIF file into either a document or a list, as explained in the AdvanceWrite article in this issue.

To Executive MemoMaker (EMM):

Save your spreadsheet in ASCII format by (1) pressing the Print Sheet, then Print to file softkeys, or (2) using the /PF command. In EMM, load the file by pressing File Keys, then Get Memo, then ASCII File so that the asterisk (*) appears in the ASCII File* softkey.

To MemoMaker:

Same as Executive MemoMaker. Use Get Memo; there is no ASCII File option, but the file will be read successfully.

To MS Word:

Save your spreadsheet in ASCII format by (1) pressing the Print Sheet, then Print to File softkeys, or (2) using the /PF command. When you name your file, give it a .DOC extension. In MS Word, bring in the file with Transfer, Load.

To MultiMate:

Save your spreadsheet in DIF format by (1) pressing Load and Store, then Store Data, or (2) using the /S#S command. You can specify either ROW or COLUMN format, remember what you choose because MultiMate will ask for it. In MultiMate, convert the file to MultiMate's .DOC format using the File Conversion utility.

To WordStar:

Same as WordStar Professional.

To WordStar Professional:

Save your spreadsheet in ASCII format by (1) pressing the Print Sheet, then Print to File softkeys, or (2) using the /PF command. In WordStar, press Open Non-Document (Touchscreen) or [N] (Vectra) to load the file.

To WordStar 2000:

Save your spreadsheet in ASCII format by (1) pressing the Print Sheet, then Print to File softkeys, or (2) using the /PF command. In WordStar 2000, use the Block Insert command to get the file.

To Word/150:

This is only possible via the HP Word/3000 converting utility. Save your spreadsheet in ASCII format by (1) pressing the Print Sheet, then Print to File softkeys, or (2) using the /PF command. To transfer the file into Word/150, refer to the Word/150 article in this issue.

To HP Slate:

Save your spreadsheet in ASCII format by (1) pressing the Print Sheet, the Print to File softkeys, or (2) using the /PF command. Use AdvanceLink to transfer your file to the HP 3000 as a 7-bit ASCII file. HP Slate will automatically convert the file as you bring it in.

To HP Word:

Save your spreadsheet in ASCII format by (1) pressing the Print Sheet, then the Print to File softkeys, or (2) using the /PF command. Use AdvanceLink to transfer your file to the HP 3000 as a 7-bit ASCII file. In HP Word, invoke the built-in converter to translate to HP Word format.

To TDP/3000:

Save your spreadsheet in ASCII format by (1) pressing the Print Sheet, the Print to File softkeys, or (2) using the /PF command. Use AdvanceLink to transfer your file to the HP 3000 as a 7-bit ASCII file. TDP can read the file as is. Note that you may need to add TDP formatting commands.

GRAPHICS

To Charting Gallery:

Save your spreadsheet in DIF format by (1) pressing Load and Store, then Store Data, or (2) using the /S#S command. In Charting Gallery, get the data by first pressing Get and Save, then typing the filename, then Get Data.

To PFS:Graph:

Save your spreadsheet in DIF format by (1) pressing Load and Store, then Store Data, or (2) using the /S#S command. In PFS:Graph, go to the /Get/Save/Remove menu to get your file.

To Picture Perfect:

Save your spreadsheet in DIF format (1) pressing Load and Store, then Store Data, or (2) using the /S#S command. In Picture Perfect, get the file by pressing USER AIDS, then Load DIF Row/Col.

To Series 100 Graphics:

Save your spreadsheet in DIF format by (1) pressing Load and Store, then Store Data, or (2) using the /S#S command. In Series 100 Graphics, on the Charts menu, specify your file name, set Transfer Data In* and then press Data to get your file.

To DSG/3000:

Save all or part of your spreadsheet in ASCII format by (1) pressing the Print Sheet, then Print to File softkeys, or (2) using the /PF command. The data you save must have no variable labels, column headings, special numeric formats, etc. Using a word processor or MS-DOS, look at the column position of each field, and the length of each record, and write them down. Use AdvanceLink to transfer your file to the HP 3000 in ASCII format. In DSG/3000 you will need to fill in the Data Definition menu found in the Create Chart level of DSG/3000. The data coming into DSG/3000 is considered to be in fixed form. Fill in the menu with the information you wrote down.

To HP Map:

Save all or part of your spreadsheet in ASCII format by (1) pressing the Print Sheet, then Print to file softkeys, or (2) using the /PF command. Note that your file must contain only zone/place names and their corresponding data value fields, on record per row. Using a word processor or MS-DOS, bring up your ASCII file and look at the column position of each field, and the length of each record, and write them down. Use AdvanceLink to transfer your file to the HP 3000 in ASCII format. In HP Map, go to the Select Data File menu to get the file. Your file is in fixed format, fill in the menu with the information that you wrote down.

DATABASES

To Condor:

Save all or part of your spreadsheet in ASCII format by (1) pressing the Print Sheet, then Print to file softkeys, or (2) using the /PF command. In Condor, use the READ command to get the file.

To dBase II, III:

Save all or part of your spreadsheet in ASCII format by (1) pressing the Print Sheet, then Print to File softkeys, or (2) using the /PF command. In dBase II or dBase III, use the APPEND command to read your data into a predefined dataset.

To Executive Card Manager:

Save your spreadsheet in DIF format by (1) pressing Load and Store, then Store Data, or (2) using the /S#S command. Use ECM's Transfer In feature to load the file. Each line of the DIF file is made into a separate ECM card.

To Personal Card File:

Same as Executive Card Manager.

To R:Base 4000:

Save your spreadsheet in DIF format by (1) pressing Load and Store, then Store Data, or (2) using the /S#S command. In R:Base 4000, use the Load . . . as DIF command to bring in the file.

To R:Base 5000:

Save your spreadsheet in DIF format by (1) pressing Load and Store, then Store Data, or (2) using the /S#S command. If values for the same field type are in columns, choose COLUMN orientation. If they are in rows, choose ROW orientation. In R:Base 5000, use R:Base 5000's FileGateway to translate your DIF file to R:Base format.

Note: To use these procedures, you need to be an experienced user of both software packages involved in the data transfer. You should also be aware that these procedures are *not* supported by Hewlett-Packard. They were developed to work with existing products—not included in the original product designs. These procedures may not work under all circumstances or with all version combinations.

Please send your additions or updates for this article to the *Communicator* editor—so that we may share them with other users in future issues.

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WordStar Professional ... for the Touchscreen/150 and Vectra

Encyclopedia Articles	This is the fourth Encyclopedia article on this product.
Product Description	A defacto industry standard, WordStar is a document processing package that lets you create, format and print documents to a wide range of printers. It runs on both the Touchscreen and the Vectra, and its Professional options CorrectStar, MailMerge and StarIndex allow you to correct spelling, create form letters and generate indexes, respectively.
Data Files	WordStar can create and save these files (Roman-8 on the Touchscreen, IBM-8 on Vectra): Document files—ASCII text files with embedded WordStar formatting Non-document files—straight ASCII text files It creates this back-up file each time it opens up a file for editing: <name>.BAK—a copy of the file when opened WordStar can retreive (Roman-8 on Touchscreen, IBM-8 on Vectra): Straight ASCII or .PRN print files MemoMaker or Executive MemoMaker files WordStar Professional's MailMerge program requires two files: a master document file and a data file that must be in quoted BASIC format.
Features For Bringing Data In	In the following discussion, Touchscreen functions appear in inverse; Vectra functions appear in brackets (e.g., [K]). The Open Document [D] and Open Non-Document [N] functions of WordStar allow you to edit formatted and ASCII text, respectively. Read a File [CTRL][K][R] allows you to bring in (merge) another file once you have a file opened for editing. To bring in another file: 1. Position the cursor where you wish the text to be inserted. From the Main Menu keys, press File and Exit (no equivalent on Vectra). 2. Press Read a File [CTRL][K][R], and specify the file name. The entire file will be inserted before the current cursor position.

Features For Moving Data Out

Files opened as documents will automatically be saved with embedded WordStar formatting; those opened as non-document will automatically be saved as plain ASCII text.

Write a Block [CTRL][K][W] allows you to write out part of the file (a block) you are editing to another file.

To write out a block:

1. Position the cursor at the beginning of the block to be written out. From the Main Menu keys, press Mark Blk Start [CTRL][K][B].
2. Move the cursor down to just past the end of the block, and press Mark Blk End [CTRL][K][E].
3. Press Write a File [CTRL][K][W] and specify a file name. The block you have defined will be written out to that file.

To convert WordStar documents to ASCII:

Once you open a file as Document, it will contain embedded WordStar formatting. The formatting is stored in the eighth bit of the last character of every word-wrapped word. To strip off the formatted bits you can:

Use the AdvanceLink StripIt program, which is available from the North American Response Center (800) 858-8867.

Use AdvanceLink to transfer the file to another computer and back as 7-bit ASCII.

Bring the file into Executive MemoMaker as a Document File *, and then save it out as an ASCII File *.

Data Transfer Procedures

SPREADSHEETS

To Lotus 1-2-3:

Convert document file to ASCII with .PRN extension. In 1-2-3, choose /File Import (/FI).

To Symphony:

Convert document file to ASCII with .PRN extension. In Symphony, choose /File Import (/FI).

WORD PROCESSORS

To AdvanceWrite:

Convert document file to ASCII. In AdvanceWrite, convert the file to AdvanceWrite using the Filing, Translate function.

To Executive MemoMaker:

No conversion is necessary. In Executive MemoMaker, bring in the file using the File Keys.

To MemoMaker:

No conversion is necessary. In MemoMaker, bring in the file with Get Memo.

To MS Word:

Convert document file to MS Word format with MS Word's WordStar CONVERT utility (give it a .DOC extension!). In MS Word, bring in the file with Transfer, Load.

To MultiMate:

Convert document file to ASCII with a .DOC extension. Use MultiMate's FILECONV utility to convert the file to MultiMate format.

To WordStar 2000:

Convert document file to ASCII. In WordStar 2000, bring in the file with Block, Insert a file.

To Word/150:

Convert document file to ASCII. Transfer the file up to the HP 3000 using AdvanceLink. Use HP Word/3000 Convert Document Menu to convert it to HP Word/3000 format. Return to P.A.M. and use the installed 3000->Word150 function to convert it to Word/150 format and transfer it down to the Touchscreen.

To HP Slate:

Convert document file to ASCII. Transfer the file to the HP 3000 as ASCII, and bring it into HP Slate; it will be automatically converted.

To HP Word:

Convert document file to ASCII. Transfer the file to the HP 3000 as ASCII. Use HP Word/3000 Convert Document Menu to convert it to HP Word format.

To TDP/3000:

Convert document file to ASCII. Transfer the file to the HP 3000 as ASCII, and bring it into TDP/3000 with the TEXT command.

GRAPHICS

To Picture Perfect:

Convert document file to ASCII. In Picture Perfect, choose Load Data.

To Series 100 Graphics:

Convert document file to ASCII. In Series 100 Graphics, choose Transfer Data In* on the Charts menu, to bring in the ASCII file.

To DSG/3000:

Convert document file to ASCII and transfer it to the HP 3000. In DSG/3000, use the Data Definition menu to bring in the file.

To HP Map:

Put document in an ASCII print file format, and convert it to ASCII. Transfer it to the HP 3000 as ASCII and use HPMap's Select Data File menu to bring the data in.

DATA BASES

To Condor:

Put document in Condor's "M" option format and convert it to ASCII. Condor will recognize this file type when it READs it.

To dBase II, III:

Put document in quoted BASIC format and convert it to ASCII. In dBase, use the APPEND command to add data to a defined dataset.

To Executive Card Manager:

Put document in quoted BASIC format and convert it to ASCII. In Executive Card Manager, use Copy Cardfile to Transfer In the file in BASIC Format.

To R:BASE 4000:

Put document in quoted BASIC format and convert it to ASCII. In R:BASE, do a LOAD. . .AS ASCII to append the data to a defined table.

To R:BASE 5000:

Put document in delimited or fixed field format and convert it to ASCII. In R:BASE, do a Convert document files to ASCII as delimited or fixed field. Use the R:BASE FileGateway utility to append the data to a defined table.

Note: To use these procedures, you need to be an experienced user of both software packages involved in the data transfer. You should also be aware that these procedures are *not* supported by Hewlett-Packard. They were developed to work with existing products—not included in the original product designs. These procedures may not work under all circumstances or with all version combinations.

Please send your additions or updates for this article to the *Communicator* editor—so that we may share them with other users in future issues.

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WordStar 2000 ... for the HP Vectra PC

Encyclopedia Articles	This is the first Encyclopedia article on this product.
Product Description	WordStar 2000 by MicroPro is a dedicated word processor available from HP for the HP Vectra. Some features of WordStar 2000 are: ■ Easy-to-remember "mnemonics" commands ■ Windows" for moving text among up to three separate documents ■ "Key Glossary"—stores frequently used text or command strings pre-designed page formats ■ "Math"—performs calculations as you edit ■ Built-in spelling checker ■ Mail merge capabilities These and other powerful features makes WordStar 2000 a high performance word processor used by the word processing professional.
Data Files	WordStar 2000 saves files in either the WordStar 2000 format or as an unformatted ASCII file. Files are saved in IBM8. The WordStar 2000 file format is NOT directly compatible with WordStar or WordStar Professional's file format. However, a file conversion utility is available with WordStar 2000 which enables the user to: ■ Convert revisable format Document Content Architecture (DCA) files to WordStar 2000 file format ■ Convert WordStar (WordStar Professional, MemoMaker, and Executive MemoMaker) files to WordStar 2000 file format ■ Convert WordStar 2000 files into revisable format DCA files ■ Convert WordStar 2000 files into WordStar (WordStar Professional, MemoMaker, and Executive MemoMaker) file format WordStar 2000 creates a back-up file (FILENAME.BAK) each time a file is opened for editing. Files to be used with MailMerge need to be edited to conform with the CBASIC (sometimes referred to as quoted BASIC) format. The WordStar 2000 Reference Guide gives an excellent explanation of the editing required.

Features for Bringing Data In

An ASCII file can be brought into WordStar 2000. To use the WordStar 2000 editing features:

Create a WordStar 2000 document with any format other than UNFORM.FRM. The document can be empty or contain text. Save the formatted WordStar 2000 document. Use the BIock Insert command to insert the ASCII file into the WordStar 2000 document just created.

The ASCII file will then follow the format of the file in which it was inserted.

If an ASCII file is not inserted into a file with a defined format, it is considered an unformatted file and WordStar 2000 will not allow any editing such as, bold, italics, etc. to take place.

WordStar, WordStar Professional, MemoMaker, Executive MemoMaker, and revisable format DCA files can be brought into WordStar 2000 through the WordStar 2000 File Conversion feature. Simply select the WordStar 2000 File Conversion (^W) command from the Opening Menu and respond to the questions.

The converted files will have either a .DCF, .WS, or, .WS2 extension.

Some commands will not translate. An Appendix in the WordStar 2000 Reference Manual details the commands that don't translate.

All or part of a Lotus 1-2-3 or Symphony worksheet can be inserted into WordStar 2000 through the use of the Block Insert (^BI) command.

MailMerge (^OM) commands take information form various sources (such as data files, operator input, and text files) and inserts it into a WordStar 2000 document. For MailMerge, the data files must be set up in a CBASIC format. CBASIC is a standard comma-delimited ASCII data file format. Files must be created or edited to conform with the CBASIC format.

WordStar 2000 Plus has the MailList feature creates the data files in the CBASIC format. Data files from other programs cannot be used with MailList.

Features for Moving Data Out

The WordStar 2000 File Conversion feature converts WordStar 2000 files into WordStar (WS) or DCA files. Simply select the WordStar 2000 File Conversion (^W) command from the Opening Menu and respond to the questions. Some commands will not convert; refer to the WordStar 2000 Reference Manual for a list of commands that will not convert.

By using the unformatted file option (UNFORM.FRM) an ASCII file is created in WordStar 2000 and can then be brought into programs compatible with standard ASCII files.

Data Transfer Procedures

SPREADSHEETS

To Lotus 1-2-3:

Save as ASCII file with .PRN extension. Bring an unformatted (ASCII file) into 1-2-3 through the /File Import Numbers command. Edit the file in WordStar 2000 and delimit each text field by double quotes. Non-label numbers do not need quotes as delimiters.

To Symphony:

Save as ASCII file with .PRN extension. See Lotus 1-2-3 above.

WORD PROCESSORS

To AdvanceWrite:

Convert to DCA format and then translate through the AdvanceWrite DCA converter.

To Executive MemoMaker:

Convert the WordStar 2000 document to WordStar (WS) format using the WordStar 2000 File Conversion feature. Or, convert to an unformatted (ASCII) file.

To MemoMaker:

Convert the WordStar 2000 document to WordStar (WS) format using the WordStar 2000 File Conversion feature. Or, convert to an unformatted (ASCII) file.

To MS Word:

Convert to unformatted (ASCII) with a .DOC extension.

To MultiMate:

Convert to unformatted (ASCII) with a .DOC extension. Use MultiMate's FILECONV utility to convert the file to MultiMate format.

To WordStar:

Convert to WordStar (WS) format using the WordStar 2000 File Conversion feature. Or, convert to unformatted (ASCII).

To Word/150:

Convert to unformatted (ASCII). Transfer the ASCII file to HP Word/3000 using AdvanceLink. Use HP Word/3000 Convert Document Menu to convert it to HP Word format. Transfer it back down to the HP Touchscreen (150) using AdvanceLink.

To HP Slate:

Convert to unformatted (ASCII). Transfer the file using AdvanceLink to the HP3000 as ASCII, and bring it into HP Slate; it will be automatically converted.

To HP Word:

Convert to unformatted (ASCII). Transfer the file to HP3000 as ASCII. Use HP Word/3000 Convert Document Menu to convert it to HP Word format.

To TDP/3000:

Convert to unformatted (ASCII). Transfer the file to the HP3000 as 7-bit ASCII, and bring it into TDP/3000 with the T command.

GRAPHICS

To Charting Gallery:

Convert to unformatted (ASCII). The first column should be text and the other columns should be numeric. Anything separated by a space or comma is considered a new column.

To Picture Perfect:

Convert to unformatted (ASCII). In Picture Perfect, choose Load Data.

To Series 100 Graphics:

Convert to unformatted (ASCII).

To DSG/3000:

Convert to unformatted (ASCII).

To HP Map:

Convert to unformatted (ASCII).

DATABASES

To Condor:

Convert to unformatted (ASCII). Edit the file with each field on its own line, and each record separated by a blank line. Condor will recognize this as its "M" option.

To dBase II, III:

Convert to unformatted (ASCII). Edit the file to a CBASIC (sometimes referred to as quoted Basic) format.

To R:BASE 4000:

Convert to unformatted (ASCII).

To R:BASE 5000:

Convert to unformatted (ASCII). Edit the file to CBASIC format. Commas are the default delimiter in R:BASE 5000

Note: To use these procedures, you need to be an experienced user of both software packages involved in the data transfer. You should also be aware that these procedures are *not* supported by Hewlett-Packard. They were developed to work with existing products—not included in the original product designs. These procedures may not work under all circumstances or with all version combinations.

Please send your additions or updates for this article to the *Communicator* editor—so that we may share them with other users in future issues.

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Word/150 ... for the Touchscreen/150 and Vectra

Encyclopedia Articles	This is the first Encyclopedia article on this product.
Product Description	Word/150 is a stand-alone Touchscreen-based version of the HP Word, HP's powerful HP 3000 minicomputer word processor. Word/150 provides the HP Word/3000 user with a familiar user interface and full document interchangeability.
Data Files	Word/150 creates binary document files which can only be used with Word/150. Besides the document text, Word/150 files stores formatting information and data obtained from the DOCUMENT INFORMATION screen. Word files can be identified with the file name extension: <name>.HPW
Features For Bringing Data In	The Word/150 Edit Document function lets you bring in an existing document for editing. Use the installed 3000<-Word150 P.A.M. function to transfer HP Word/3000 files down to the Touchscreen and convert to Word/150 format. This utility requires AdvanceLink to be installed on the Touchscreen. The only way to bring an ASCII file into Word/150 is to transfer it to an HP 3000, convert it to HP Word/3000 format and then convert it to Word/150 format: 1. Transfer the file up to the HP3000 using HPMessage or AdvanceLink. (Skip this step if the ASCII file comes from an HP 3000 application.) 2. In HP Word/3000, use the Convert Document Menu to convert the ASCII file to HP Word/3000 format. 3. Return to P.A.M., and choose the 3000->Word150 function to transfer and convert the file to Word/150.

Features For Moving Data Out

The installed Word150->3000 P.A.M. function allows you to transfer files up to the HP 3000, and convert them to HP Word/3000 format. This utility requires AdvanceLink to be installed on the Touchscreen.

The only way to convert a Word/150 file to ASCII is to transfer it to an HP 3000, convert it to HP Word/3000 format, and then to ASCII:

1. Choose the Touchscreen Word150->3000 P.A.M. label. Specify the Word/150 document file to convert, and the subsequent converted document file name.
2. On the HP 3000, run the WORDUTIL program to Print the document to a file in ASCII format.
3. If the file is to be used on a PC, you must transfer it back down to the PC using HPMessage or AdvanceLink.

Data Transfer Procedures

SPREADSHEETS

To Lotus 1-2-3:

Save as ASCII file with .PRN extension. In 1-2-3, choose /File Import (/FI).

To Symphony:

Save as ASCII file with .PRN extension. In Symphony, choose /File Import (/FI).

WORD PROCESSORS

To AdvanceWrite:

Convert to ASCII. In AdvanceWrite, convert the file to AdvanceWrite using the Filing Translate function.

To Executive MemoMaker:

Convert to ASCII. Bring the file into Executive MemoMaker with the File Keys.

To MemoMaker:

Convert to ASCII. In MemoMaker, bring in the file with Get Memo.

To MS Word:

Convert to ASCII, and give it a .DOC extension. In MS Word, bring in the file with Transfer, Load.

To MultiMate:

Convert to ASCII, and give it a .DOC extension. Use MultiMate's FILECONV utility to convert the file to MultiMate format.

To WordStar:

Convert to ASCII and bring it into WordStar as usual.

To WordStar 2000:

Convert to ASCII. In WordStar 2000, bring in the file with Block, Insert a file.

To HP Slate:

Convert to ASCII. Bring it into HP Slate; it will be automatically converted.

To HP Word:

Use the P.A.M. Word150->3000 conversion and transfer function.

To TDP/3000:

Convert to ASCII. Bring it into TDP/3000 with the TEXT command.

GRAPHICS

To Picture Perfect:

Convert to ASCII. In Picture Perfect, choose Load Data.

To Series 100 Graphics:

Convert to ASCII. In Series 100 Graphics, choose Transfer Data In* on the Charts menu, to bring in the ASCII file.

To DSG/3000:

Convert to ASCII. In DSG/3000, use the Data Definition menu to bring in the file.

To HP Map:

Convert to ASCII. In HP Map, use the Select Data File menu to bring in the file.

DATABASES

To Condor:

Put document in Condor's "M" option format and convert it to ASCII. Condor will recognize this type when it READs it.

To dBase II, III:

Put document in quoted BASIC format and convert it to ASCII. In dBase, use the APPEND command to add the data to a defined dataset.

To Executive Card Manager:

Put document in quoted BASIC format and convert it to ASCII. In Executive Card Manager, use Copy Cardfile to Transfer In the file in BASIC Format.

To R:BASE 4000:

Put document in quoted BASIC format and convert it to ASCII. In R:BASE, do a LOAD. . .AS ASCII to append the data to a defined table.

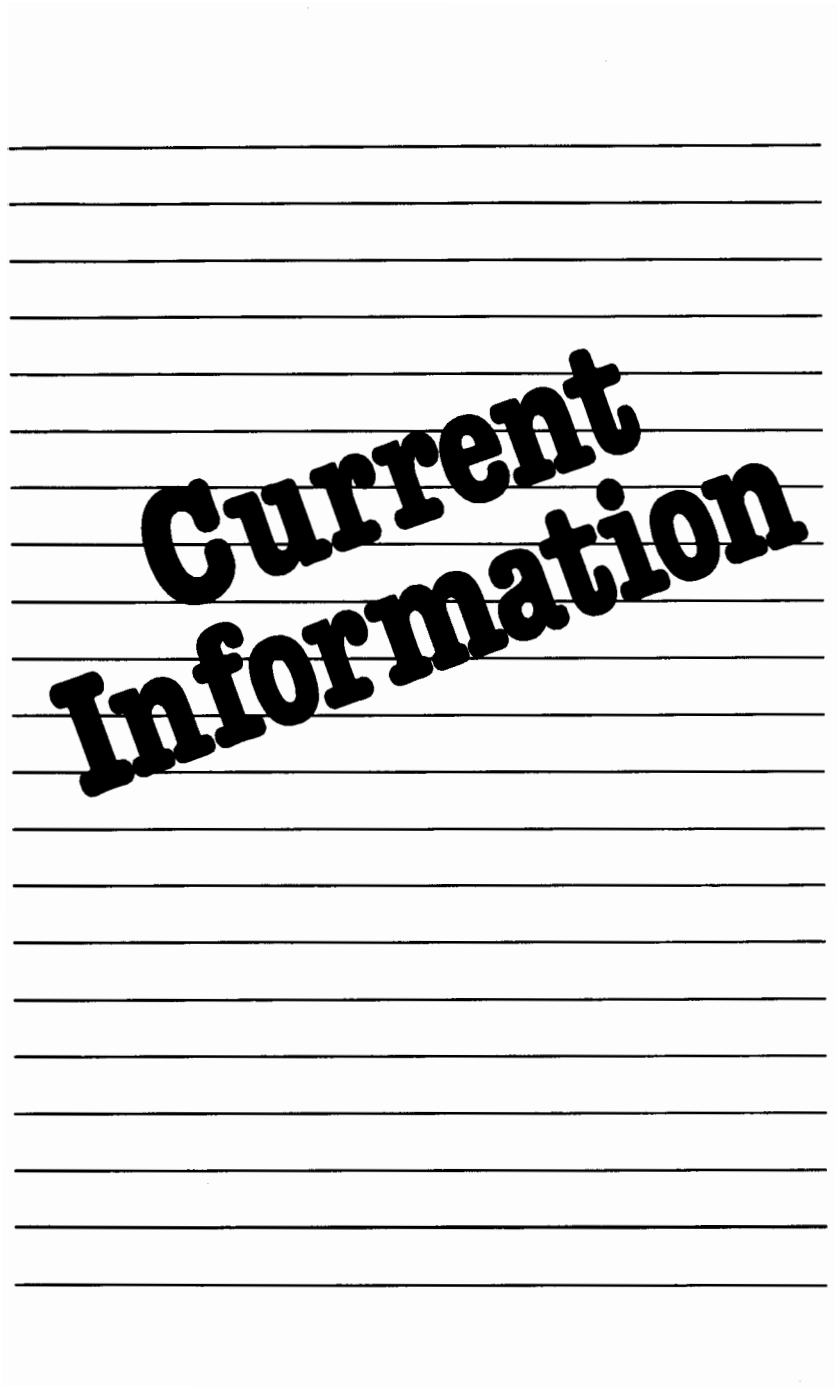
To R:BASE 5000:

Put document in delimited or fixed field format and convert it to ASCII. Use the R:BASE FileGateway utility to append the data to a defined table.

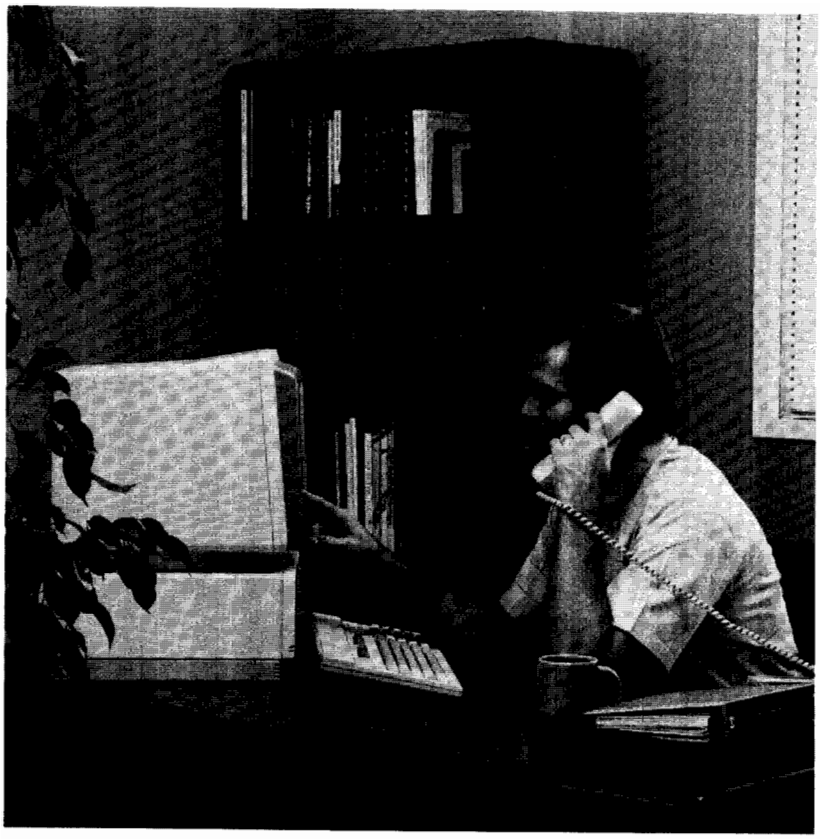
Note: To use these procedures, you need to be an experienced user of both software packages involved in the data transfer. You should also be aware that these procedures are *not* supported by Hewlett-Packard. They were developed to work with existing products—not included in the original product designs. These procedures may not work under all circumstances or with all version combinations.

Please send your additions or updates for this article to the *Communicator* editor—so that we may share them with other users in future issues.

□


Current
Information

Current Information



The level of capability provided by advanced personal computer software—together with the rapid evolution of this field—means that you may sometimes have questions that are not answered in the product manuals. Depending on where you purchased the specific software or hardware product, the best source of assistance for that product may be your own organization, your dealer, an independent vendor, or Hewlett-Packard.

This section is designed to guide you through the process of obtaining the most rapid resolution of any question that you have. It is organized in a series of steps:

Step 1: Is the answer in the *Communicator?*
Step 2: Is the answer available through CompuServe?
Step 3: Is support provided from within your own organization?
Step 4: Was this product purchased from a dealer?
Step 5: Was this product provided by an independent vendor?
Step 6: Telephone assistance from Hewlett-Packard
Step 7: Training or consulting

By following these steps, you can rapidly and inexpensively get the answer you need.

Step 1: Is the answer in the *Communicator?*

The *Communicator* is the heart of our support program. This magazine brings you applications information, operational tips, programming techniques, information on software updates, manual corrections, and data on known software problems and their solutions.

The new Encyclopedia section, initiated with Issue #9, provides detailed, easily-accessed information on each major hardware and software product. Many of these sections are written by people from our HP HelpLine Response Centers, reflecting the most common questions and problems.

Refer to the article "Ordering *Communicator* Subscriptions" in the Current Information section of this issue for ordering details.

Step 2: Is the answer available through CompuServe?	HP maintains a database on the CompuServe™ on-line information service called HP OnLine—it contains product news, answers to frequently-asked questions, and other information. HP also facilitates user interaction by hosting an open forum where users may post messages for general user response. Periodically, HP may respond to selected user questions. To gain access to HP OnLine, you must have an account with CompuServe (you are billed for CompuServe connect time and network services) and you must have a 300- or 1200-baud modem.
Step 3: Is support provided from within your own organization?	If you work in an organization which has several HP personal computers, there is often one person who coordinates the purchase, set-up, and training for your company or institution. In a large organization, this function is often provided by the central MIS, office-automation, or data-processing department. (For example, each Hewlett-Packard division or office has an Office Automation Coordinator, usually part of the finance department, who provides personal computer training and assistance.) Your internal support personnel have full knowledge of your organization's overall system: your internally developed programs, your particular operating and networking procedures ... and your specific hardware and software configuration. Your experts, in turn, have access to special resources within Hewlett-Packard. HP support services, such as training courses, are purchased to supplement your internal capabilities. With centralized support within your organization, your support is localized and customized to your particular needs. If you do not have an internal support capability, support for a product generally comes from the organization that sold you the product—the dealer or Hewlett-Packard.

Step 4: Was this product purchased from a dealer?	If this product was purchased from a dealer or independent system supplier, they have worked with you to define your application and configure your system—perhaps selecting software or hardware not supplied or supported by Hewlett-Packard. Here, your dealer is the best source of assistance—knowing you, your needs, and your configuration well. Authorized dealers are backed up by special support resources within HP ... and, of course, the full range of Hewlett-Packard software and hardware support services may be purchased as a supplement to those provided by your dealer. By buying your hardware, software, accessories, and supplies from an Authorized Hewlett-Packard Dealer who provides full support, you build up a continuing relationship—providing a local, personal, and uniquely-responsive support program customized for your business.
Step 5: Was this product provided by an independent vendor?	Many products which run on HP personal computers are developed and marketed by independent organizations—referred to in the personal computer industry as "Independent Software Vendors" (ISVs) or "Independent Hardware Vendors" (IHVs). Hewlett-Packard publishes catalogs and directories listing software and hardware products that the ISVs and IHVs have tested for operation on our systems. We refer to these as "verified" or "listed" products. Because of the specialized knowledge required, your support for one of these products comes either directly from the original developer or through the dealer from whom you purchased it.
Step 6: Telephone assistance from Hewlett-Packard	Telephone assistance is available 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 under our product number, we have made arrangements for support to come directly from the original developer. This is indicated in the product data sheet and the documentation supplied with the product.) For telephone assistance outside the U.S. and Canada, call your HP Sales and Service Office and ask for the Personal Computer Response Center. In the U.S. and Canada, the telephone assistance program is called HP HelpLine.

Here is how the U.S./Canada HP HelpLine program works:

- The toll-free HP HelpLine number is:

  1-800/858-8867

  HP HelpLine is open Monday through Friday from 7 A.M. to 9 P.M. Eastern Standard Time (to 6 P.M. Pacific Standard Time).

- Calls to the HP HelpLine are paid for by one of three means:

  –By quoting a unique "certificate number" from a Call Certificate. Certificate packs are ordered by mail or telephone from HP's Direct Marketing Division.

  –By providing a VISA, Master Charge, or American Express charge authorization.

  –By identifying yourself as the Authorized Caller under a specific annual Software Support Agreement.

- When you call, a coordinator arranges for the appropriate HP support representative to return your initial call within two hours. Using a full set of software and documentation—together with computer knowledge, problem-solving skills, and access to further assistance via HP's worldwide telecommunications network—the support representative works with you to answer your question.

- HelpLine support does not extend to program development, program coding, isolation of coding errors, and implementation assistance. These areas are most economically resolved through on-site consulting and training, as described in Step 7, below.

- A call-incident is defined as a discussion of moderate duration focusing on one specific topic to resolve an inquiry or problem. A call-incident includes the time on the telephone discussing the question, time to research the solution, plus any additional call-backs required to clarify the question.

- The actual charge for a call-incident is not initiated until the call is closed. There is no charge if the call is the result of a specific documentation defect or software design problem ... or if an answer cannot be found.

[Of course, this is only a summary of the new Personal Computer Assistance program. For details, please call the National Response Center at (800) 858-8867.]

Step 7: Training or consulting

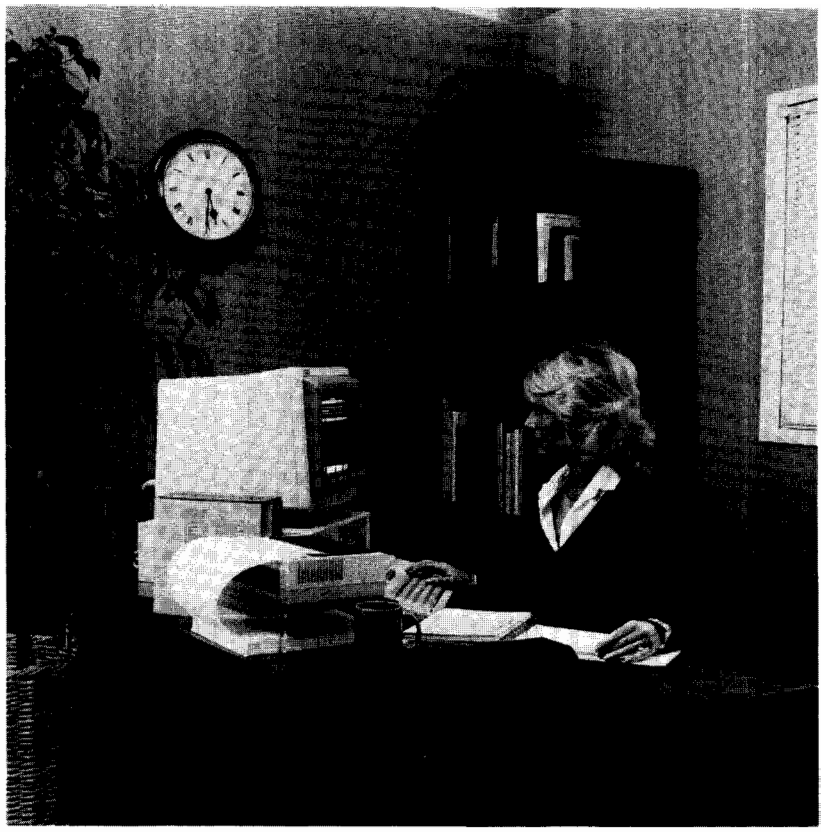
Perhaps your need for support is most efficiently and economically met by training or consulting:

- Classroom training is available to supplement the documentation that accompanies your product. Courses can help first-time computer users rapidly build confidence and gain new skills away from the distractions of the day-to-day job. As HP training courses are developed, they are listed in the *Communicator.*

  These courses can be taught at your facility using your own systems. Also, training to suit your specific needs can be designed and given through HP's computer consulting service.

  Many dealers teach similar courses or can arrange for Hewlett-Packard to teach a course in your area. To discuss training, call your local dealer or HP office.

- Consulting service, available from Hewlett-Packard by the hour or by the day, provides personalized assistance in system operation, recommendations for improved performance, or suggestions on application design. Your dealer or system house may also have consulting services available. To discuss consulting, call your local dealer or HP office.



User Group: Interex

JoLynn Griffiths

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 21 countries. If you join Interex, you will receive, at no cost, an assortment of *HP Communicator* back issues which pertain to your computer model.

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."

Membership

Standard Users Support Service includes a subscription to the magazine *Professional Computing*, a subscription to the *Interrupt* newsletter, and one disc from the Interex Contributed Software Library.

Standard Users Support Service:

North America $70
Outside North America $120

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 94089
U.S.A.
Telephone 408/738-4848

U.K. residents can contact the HP 100 Users Group in England:

Tim Cullis
HP 100 Users Group
Trafalgar House
Grenville Place
Mill Hill
London, NW7 3SA
England

Interex

The International Association of Hewlett-Packard Computer Users

Application for Personal Computer Services

Enclosed is my full payment for:

Standard Users Support Services
____ North America $70*
____ Outside North America $120*

**Of this fee, $15 is allocated for a subscription to* Professional Computing.

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 _____

Computer:
☐ The Portable (HP 110)
☐ Portable Plus
☐ HP Touchscreen/150
☐ HP 120 or HP 125
☐ Vectra PC

Disc Format: ☐ 3½" single-sided ☐ 3½" double-sided ☐ 5¼"
Please send my free *Communicator* back issues ☐

(over)

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

☐ No ☐ Yes: ID # _____

Please send more information about Interex's other activities:

___ HP 1000 ___ HP 3000 ___ HP 9000/Series 200

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

Signature _____ Date _____

Send this page with your full payment to:

Interex
Bank File #61054
P.O. Box 60000
San Francisco, CA 94160
U.S.A.

To determine which U.S. products are recommended for use with localized computers, check with your Dealer or HP Sales Office.

Name	Product Number	Uses HP Touch	Special Requirements
COMMUNICATIONS:			
AdvanceLink—U.S.	45431A	●	
—German	45431AD	●	
DSN/Link—German	45425AD	●	
—Spanish	45425AE	●	
—French	45425AF	●	
—Dutch	45425AH	●	
—Latin American	45425AM	●	
—Swedish	45425AS	●	
—Finnish	45425AX	●	
HPMessage	36568A	●	Corresponding 3000 software required
IBM 3278 Term. Emul. Acces.	45641B	●	
OfficeShare Network Server	50902A		Dedicated PC plus user software, 512 K memory required
OfficeShare Network User	50903A		Network Server 512 K memory recommended
VT100 Terminal Emulator	45412A		
DATA BASE MANAGEMENT:			
Condor3	45416A	●	
dBASEII—U.S.	45468D		
—French	45468AF		
—German	45468AD		
Executive Card Manager	45421A	●	
ECM: Templates	45441D	●	
HP Access	36898A	●	Corresponding 3000 software required
Pers. Card File—Afrikaans	45422AA	●	
—German	45422AD	●	
—Spanish	45422AE	●	
—French	45422AF	●	
—Dutch	45422AH		
—Latin Amer.	45422AM	●	
—Norwegian	45422AN	●	
—Swedish	45422AS	●	
—Finnish	45422AX	●	
—Danish	45422AY	●	
—Italian	45422AZ	●	
R:Base 4000	45545A		
R:Base 5000	45563A		512K

Name	Product Number	Uses HP Touch	Special Requirements
ENGINEERING DESIGN:			
AutoCAD	47956A		512K
GRAPHICS:			
Diagraph	45463A	●	
Charting Gallery—U.S.	45513A	●	
—German	45513AD	●	
Drawing Gallery—U.S.	45411A	●	384K
—German	45411AD	●	384K
Gallery Pic. Library, Vol. II	45433A		
HPDraw Figures Portfolio	45571A		
Office Activities Portfolio	45568A		
Business Activities Mgmt. Portfolio	45570A		
Chemical/PetroChemical Portfolio	45569A		
Gallery Collection—U.S.	45437A	●	384K
—German	45437AD	●	384K
—Italian	45437AZ	●	384K
Painter	45540A	●	
Picture Perfect	45462A	●	
S/100 Graphics—Afrikaans	45410AA	●	
—Spanish	45410AE	●	
—French	45410AF	●	
—Dutch	45410AH	●	
—Latin Amer.	45410AM	●	
—Norwegian	45410AN	●	
—Swedish	45410AS	●	
—Finnish	45410AX	●	
—Danish	45410AY	●	
—Italian	45410AZ	●	
INTEGRATED SOLUTIONS:			
ExecuDesk—U.S.	45444A	●	
—German	45444AD	●	
—Danish	45444AY	●	
—Italian	45444AZ	●	
ExecuDesk System	45442A	●	384K
Symphony from Lotus	45498A	●	
PROGRAMMING LANGUAGES AND DEVELOPMENT TOOLS:			
BASIC by Microsoft	45445D		
BASIC Programmer's Library	45310A		
COBOL by Microsoft	45448A		
Compiled BASIC by Microsoft	45446D		
Cross Reference Utility	92248BA		
Forms Master	45443A	●	
FORTRAN by Microsoft	45449D		
GW-BASIC by Microsoft	45450D	●	

Name	Product Number	Uses HP Touch	Special Requirements
ICON Design System	45311A	●	
Lattice C Compiler	45452D		
Pascal by Microsoft	45447D		
Programmer's Tools	45435A		
SPREADSHEETS:			
1-2-3 from Lotus	45482A		
Financial Calculator	45423A		
Deluxe Visicalc/150—U.S.	45405A	●	
—French	45405AF	●	
Visicalc/150—Afrikaans	45405AA	●	
—German	45405AD	●	
—Spanish	45405AE	●	
—Dutch	45405AH	●	
—Latin American	45405AM	●	
—Norwegian	45405AN	●	
—Swedish	45405AS	●	
—Finnish	45405AX	●	
—Danish	45405AY	●	
—Italian	45405AZ	●	
UTILITIES:			
HP PLCPak	33406A		
Print Central/150	36890A		Corresponding 3000 software required
WORD PROCESSING:			
HPWORD/150 U.S. English	27505A	●	512K
HPWORD/150 U.K. English	27505AB		
Executive MemoMaker U.S.	45418A	●	
Executive MemoMaker—German	45418AD		
Executive MemoMaker—Italian	45418AZ		
MemoMaker—Afrikaans	45420AA	●	
—German	45420AD	●	
—Spanish	45420AE	●	
—French	45420AF	●	
—Dutch	45420AH	●	
—Latin Amer.	45420AM	●	
—Norwegian	45420AN	●	
—Swedish	45420AS	●	
—Hebrew	45420AT	●	
—Arabic	45420AV	●	
—Finnish	45420AX	●	
—Danish	45420AY	●	
—Italian	45420AZ	●	

Name	Product Number	Uses HP Touch	Special Requirements
Microsoft SPELL	45556D	•	
Microsoft WORD	45474D	•	
MultiMate	45424A	•	
WordStar—U.S.	45400D	•	
WordStar Professional	45427D		384K + dual double sided disk drive
WordStar Professional Options	45429D		384K + dual double sided disk drive
European WordStar/MailMerge Combo:			
—U.K. English	45313AB		
—German	45313AD		
—Spanish	45313AE		
—French	45313AF		
—Dutch	45313AH		
—Norway	45313AN		
—Swedish	45313AS		
—Finnish	45313AX		
—Danish	45313AY		
—Italian	45313AZ		
LEARNING PRODUCTS:			
Classroom Learning Pack for HP Access/150 (with Computer Based Training)	89914A		
Student Training discs (pack of 5) for HP Access	89921A		
HP FastTrak:			
for HP Access	89917A		
for AdvanceLink	89918F		
for Executive MemoMaker	89915F		
for Executive Card Manager	89916F		
for Drawing Gallery	68351X		
for Charting Gallery	68350X		
for Graphics Gallery	68352X		

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Vectra PC Software* Available from HP

Marilyn Ruel, Steve Martin
Audrey Stroub, Patty Brenner

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

Name	Product #	Uses HP Touch	Special Requirements
COMMUNICATIONS:			
AdvanceLink 2392	68333F		
HP IRMA IBM3278/79 Term Emul	50920A		
HPMessage	36569E		Corresponding 3000 software required
OfficeShare Network Server	50902F		Dedicated PC plus user software 512 K memory required
OfficeShare Network User	50903F		Network Server, 512 K memory recommended
DATA BASE MANAGEMENT:			
Executive Card Manager (ECM)	68331F	•	
ECM: Templates	68335F	•	
HP Access	36898F	•	Corresponding 3000 software required
R:Base 5000	68336F		
GRAPHICS:			
Drawing Gallery	68351V	•	
Charting Gallery	68350V	•	
Gallery Collection	68352V	•	
Office Activities Portfolio	68324F	•	
Business Mgmt. Portfolio	68326F	•	
Chemical/PetroChemical Portfolio	68325F		
HPDraw Figures Portfolio	68327F		
TextCharts	45406E		
INTEGRATED SOLUTIONS:			
Symphony from Lotus	68339F		
PROGRAMMING LANGUAGES AND DEVELOPMENT TOOLS:			
Vectra GW BASIC Interpreter	45952A		
MS BASIC Compiler**	35190B		
MS BASIC Interpreter**	35190A		
MS C Compiler**	35186E		
MS COBOL Compiler**	35186B		
MS FORTRAN Compiler**	35186C		
MS Pascal Compiler**	35186D		

Name	Product #	Uses HP Touch	Special Requirements
SPREADSHEETS:			
1-2-3 from Lotus	68340F		
Executive Spreadsheet	68332F	•	
UTILITIES:			
HP PLC PAK	33406B		
Print Central/Vectra	36890F		Corresponding 3000 software required
Laser Control 100**	35190J		

Name	Product #	Uses HP Touch	Special Requirements
WORD PROCESSING:			
AdvanceWrite I*	27506F		
AdvanceWrite II*	27507F		
AdvanceWrite III*	27508F		
Executive MemoMaker	68330F	•	
MS Word**	35190D		
MultiMate	68338F		
MultiMate Advantage	68343F		
WordStar	68345F		
WordStar Professional	68346F		
WordStar 2000	68341F		
WordStar 2000 Plus	68342F		
MISCELLANEOUS:			
Sargon III**	35182F		
Teach Yourself WordStar**	35190G		
ThinkTank**	35190H		
Typing Tutor III**	35190F		
Zork I**	35180F		
Flight Simulator**	35183F		
Hitchhiker's Guide: Interactive Fiction**	35181F		
LEARNING PRODUCTS:			
Classroom Learning Pack:			
for Drawing Gallery	68351V		
for Charting Gallery	68350V		
for the Gallery Collection	68352V		
for Executive MemoMaker	89912F		
for Executive Card Manager	89913F		
Drawing Gallery Student Training Disks (pack of 5)	68351P		

Name	Product #	Uses HP Touch	Special Requirements
HP FastTrak:			
for HP Access	89917A		
for Drawing Gallery	68351X		
for Charting Gallery	68350X		
for Graphics Gallery	68352X		
for AdvanceLink 2392	89918F		
for Executive MemoMaker	89915F		
for Executive Card Manager	89916F		

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*All software except AdvanceWrite also runs on IBM PC and IBM PC compatibles
**Manufacturer Supported

Portable/Portable Plus Software Available from HP

Jane Blando

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

Name	Product Number	Portable	Portable Plus
ACCOUNTING:			
Rags to Riches Ledger	45520C	●	
Rags to Riches Sales	45521C	●	
Rags to Riches Receivables	45522C	●	
Rags to Riches Payables	45523C	●	
COMMUNICATIONS:			
REFLECTION 1 (ROM)	82863K Opt.400		●
YTerm	82867K Opt. 630		●
DATA BASE MANAGEMENT:			
d:BASEII	45468D	●	●
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	●	●
Lattice C Compiler	45452D	●	●
Pascal by Microsoft	45447D	●	●
Programmer's Tools	45419C	●	●
Technical Reference Manual	45559K		●
SPREADSHEETS:			
1-2-3 from Lotus	45548K Opt. 400		ROM

Name	Product Number	Portable	Portable Plus
WORD PROCESSING:			
MemoMaker/Time Management (ROM)	45504K Opt. 400		●
Microsoft SPELL	45556D	●	●
Microsoft WORD	45474D	●	
Microsoft WORD (ROM)	45549K Opt. 400		●
WordStar	45400D	●	
WordStar Prof.	45427D	●	
WordStar Prof. Opts.	45429D	●	
MultiMate (ROM)	45554K Opt. 400		●
PERSONAL SOLUTIONS:			
The Calendar	35151D	●	
The List Mgr.	35152D	●	
Correspondence Pac	35156D	●	
Mind Prober	35161C	●	
Organizer Pac	35157D	●	
The Planner	35155D	●	
The Speller	35154D	●	
The Writer	35153D	●	
GAMES:			
Adventure**	92243D	●	●
Baron**	92243KA	●	●
Cutthroats**	92244AA	●	●
Deadline**	92243VA	●	●
Enchanter**	92243VA	●	●
Hitchhikers Gde.**	92244BA	●	●
Infidel**	92243WA	●	●
Planetfall**	92243PA	●	●
Seastalker**	92243ZA	●	●
Sorceror**	92243YA	●	●
Starcross**	92243DA	●	●
Suspect**	92244CA	●	●
Suspended**	92243FA	●	●
The Witness**	92243QD	●	●
Zork I**	92243QA	●	●
Zork II**	92243RA	●	●
Zork III**	92243TA	●	●

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**Manufacturer Supported

Discontinued Software

Marilyn Ruel

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 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.*

Touchscreen/150:

Product Name	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	None
DATABASES:		
DSN/Link—U.S. English	45425A	AdvanceLink/150—45431A
—U.K. English	45425AB	AdvanceLink/150—45431A
Condor 1	45415A	Condor 3—45416A
Condor 1 to 3 Upgrade	45417A	Condor 3—45416A
dBASE II/150	45468A	dBASE II—45468D
Personal Card File/150	45422A	Executive Card Manager—45421A

Product Name	Product #	Superseded by:
GRAPHICS:		
Charting Gallery/Executive MemoMaker Bundle	45440A	Sold separately: Charting Gallery—45513A and/or Executive MemoMaker—45418A
Series 100 Graphics—U.S.	45410A	Charting Gallery—45513A
—German	45410AD	German Charting Gallery—45513AD
Graphplan by Chang Labs	45467A	Available from Chang Labs
Graphwriter Basic Set	45484A	None
PFS: Graph	45490A	None
PROGRAMMING:		
BASIC by Microsoft/150	45445A	BASIC by Microsoft—45445D
Compiled BASIC/150	45446A	Compiled BASIC—45446D
FORTRAN by Microsoft/150	45449A	FORTRAN by Microsoft—45446D
GW-BASIC by Microsoft/150	45450A	GW-BASIC by Microsoft—45450D
Pascal by Microsoft/150	45447A	Pascal by Microsoft/150—45447D
SPREADSHEETS:		
Context MBA/150	45481A	None
Microsoft Multiplan/150	45473A	None
VisiCalc/150—U.S. English	45405A	Deluxe VisiCalc/150—45405A
—French	45405AF	French Deluxe VisiCalc/150—45405AF
MicroPlan	45465A	Available from Chang Labs
MicroPlan Consolidation Module	45466A	Available from Chang Labs
Microsoft Multiplan	45473D	None
WORD PROCESSING:		
MemoMaker/150—U.S. English Touchscreen	45420A	Executive MemoMaker/150—45418A
PFS: Write	45489A	None
WordStar/150—U.S. English	45400A	WordStar—45400D
—U.K. English	45400AB	U.K. WordStar/MailMerge Combo—45313AB
—German	45400AD	German WordStar/MailMerge Combo—45313AD
—Spanish	45400AE	Spanish WordStar/MailMerge Combo—45313AE

Product Name	Product #	Superseded by:
—French	45400AF	French WordStar/MailMerge Combo–45313AF
—Dutch	45400AH	Dutch WordStar/MailMerge Combo—45313AH
—Norwegian	45400AN	Norwegian WordStar/ MailMerge Combo— 45313AN
—Swedish	45400AS	Swedish WordStar/ MailMerge Combo—45313AS
—Finnish	45400AX	Finnish WordStar/MailMerge Combo—45313AX
—Danish	45400AY	Danish WordStar/MailMerge Combo—45313AY
—Italian	45400AZ	Italian WordStar/MailMerge Combo—45313AZ
MailMerge—U.S. English	45401A	Included in WordStar Professional—45427D or Professional Options— 45429D
—U.K. English	45400AB	U.K. WordStar/MailMerge Combo—45313AB
—German	45400AD	German WordStar/ MailMerge Combo— 45313AD
—Spanish	45400AE	Spanish WordStar/MailMerge Combo—45313AE
—French	45400AF	French WordStar/MailMerge Combo–45313AF
—Dutch	45400AH	Dutch WordStar/MailMerge Combo—45313AH
—Norwegian	45400AN	Norwegian WordStar/ MailMerge Combo— 45313AN
—Swedish	45400AS	Swedish WordStar/ MailMerge Combo—45313AS
—Finnish	45400AX	Finnish WordStar/MailMerge Combo—45313AX
—Danish	45400AY	Danish WordStar/MailMerge Combo—45313AY
—Italian	45400AZ	Italian WordStar/MailMerge Combo—45313AZ

SpellStar	45402A	SpellStar has been superseded by CorrectStar which is included in WordStar Professional—45427D and/or Professional Options—45429D. An Upgrade kit is available from CorrectStar to SpellStar for users with a dual single-sided disc drive.
WordStar/MailMerge/ SpellStar Combo	45404A	Superseded by WordStar Professional—45427D.

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

Product Name	**Product #**	**Superseded by:**
DATA COMMUNICATIONS:		
AdvanceLink	45431E	AdvanceLink 2392—68333F
Monitor/IBM PC	45439A	AdvanceLink 2392—68333F
DATABASES:		
Personal Card File	45422E	Executive Card Manager—68331F
WORD PROCESSING:		
Memomaker/IBM PC	45420E	Executive Memomaker—68330F

The Portable or the Portable Plus:

Product Name	**Product #**	**Superseded by:**
COMMUNICATIONS:		
Dow Jones Spreadsheet	45511D	None
SPREADSHEETS:		
Microsoft Multiplan	45473D	None
DATABASES:		
DataFax	45408C	None

□

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

■ **The Portable**

13269K	Vinyl replacement case
13269U	Carrying case—Leather
13269V	System carrying case
13269W	Attaché case
13269Z	Leather briefcase
92221P	RS232C printer cable (1.5 meters)
92221M	RS232C modem cable (1.5 meters)
92222F	RS232C gender converter (female)
92222M	RS232C gender converter (male)
82167A	HP-IL cable (0.5 meters)
82167B	HP-IL cable (1.0 meter)

■ **HP 120 Personal Computer**

13242H	RS-232C cable (use 13242-60011 for replacement)
13269P	Carrying case (for HP 120 with short keyboard plus 9121 disc drive; or HP 120 with extended keyboard)
92171C	Keyboard drawer park
92171J	Keyboard park—large
92171T	System turntable
92240A	Display tilt unit
92240B	Display swivel unit
92250D	Dust cover
92220R	Right-angle HP-IB cable (0.3 meters long)
92251P	"Stacked" dust cover (for computer and disk drive)

■ **HP 125 Personal Computer**

92160A	Thermal paper, blue print (box of 24 rolls)
92160B	Thermal paper, black print (box of 24 rolls)
92171C	Keyboard drawer park
92171R	Keyboard palm rest (for extended keyboard)
92171T	System turntable
92207A	Anti-glare filter
92250B	Dust cover

■ **HP 150 Touchscreen Personal Computer**

92160A	Thermal paper, blue print (box of 24 rolls)
92160B	Thermal paper, black print (box of 24 rolls)
92160C	Thermal paper, (page-perforated, box of 24 rolls)
13242H	RS-232C cable (use 13242-60011 for replacement)
13269BB	Carrying case for Touchscreen
13269C	Carrying case (for HP 150 and 9121 disc drive)

92250F	Dust cover for 150
92250K	Dust cover for Touchscreen
92171C	Keyboard drawer park
92171J	Large (extended) keyboard park
92171X	ThinkJet printer stand for top of display
92208A	Mobile PC Centre
92240A	Light-gray tilt unit
92240B	Light-gray swivel unit
92220R	Right-angle HP-IB cable (0.3 meters long)

■ **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
45741A	Monochrome video extension cable
45742A	Color video extension cable
45986A	Security System Lock
45989A	Floor Stand
92171X	ThinkJet printer stand for top of display
92171Z	Vectra PC keyboard park
92190X	High-capacity 5.25-inch flexible discs, 1.2 MB formatted capacity for use on the Vectra PC's high capacity internal disc drive (box of 10 discs)
92190A	5.25-inch flexible discs, 360 KB formatted capacity (box of 10 discs)
92208A	Mobile PC Centre
92259A	Vectra PC dust cover for monochrome monitor and keyboard
92259B	Vectra PC dust cover for color monitor and keyboard

For Disc Drives

■ **HP 82901M/S, 82902M/S, 9130A, 9135A 5.25-inch Disc Drives**

92190A	5.25-inch flexible discs, double-sided (box of 10 discs)
92190L	5.25-inch flexible discs in Flex Files
92193K	5.25-inch flexible-disc drive-cleaning kit
92194N	5.25-inch rolltop file (capacity 120 discs)
92251A	Dust cover (82901M/S)
92251B	Dust cover (82902M/S)

■ **HP 9121D/S, 9133A/B, 9133V/XV, 9134 3.5-inch Disc Drives; 9114A, 9122D, 9122S, and 9133D Disc Drives**

92191A	3.5-inch micro flex discs—single-sided (box of 10)
92192A	3.5-inch micro flex discs—double-sided (box of 10)
92191D	3.5-inch micro flex disc desktop file (capacity 50)
92191H	3.5-inch micro flex disc album (capacity 20) (replaces 92191C)
92191R	3.5-inch micro flex disc roll-top file (capacity 50)
92251D	Dust cover (9121 D/S)
13269T	Disc-drive case for 9121

For Printers

- **HP 2225A/B/C/D ThinkJet**

92261A	Individual printhead ink cartridge
92261D	Accessory Kit (2 print heads, 500 sheets fanfold paper, 500 sheets cut paper, 1 dust cover & 1 printer stand)
92261L	Fan-folded ink-jet paper (1000 sheets)
92261M	Cut-sheet ink-jet paper (two 500-sheet packs)
92261N	Fan-folded ink-jet paper (five 500-sheet packs)
92261S	Desktop ThinkJet printer stand
92171X	Terminal top ThinkJet printer stand for 239X series terminals
92250V	Dust cover
13269TT	Carrying case

- **HP 2601A Daisywheel Printer**

92151C	Multi-strike ribbon cartridges (box of 12 cartridges)
92151D	Fabric ribbon cartridges (box of 12 cartridges)
92157A	Printer paper, fan-folded (box of 2400 sheets)
92157C	Printer paper, microperforated fan-folded (box of 2400 sheets)
92177C	Sound enclosure
92210P	Printer stand
92177Q	Sheet-feeder
92252 Series	Plastic print wheels, 96 character (box of 6 wheels)
92153 Series	Metal print wheels (1 each)

- **HP 2602A Daisywheel Printer**

92151H	Multi-strike ribbon cartridge (box of 12 cartridges)
92157A	Printer paper, fan-folded (box of 2400 sheets)
92177D	Sound enclosure
92157C	Printer paper, microperforated fan-folded (box of 2400 sheets)
92177R	Sheet-feeder
92262 Series	Plastic print wheels, 98-character, USASCII
92263 Series	Plastic print wheels, 98-character, International
92264 Series	Plastic print wheels, HP 150 International Keyboard Support

- **HP 2932A/2934A Dot-Matrix Printer**

92154B	Print head (average life of 200 million characters)
92155L	Ribbon cartridges (box of 3 cartridges)
92157A	Printer paper, fan-folded (box of 2400 sheets)
92157C	Printer paper, microperforated, fan-folded (box of 2400 sheets)
92155M	OCR ribbon cartridge—for bar code applications (box of 3 cartridges)
92214P	Mobile printer stand

■ **HP 2671A/G and 2673A Thermal Printers**

92160A	Thermal paper, blue print (box of 24 rolls)
92160B	Thermal paper, black print (box of 24 rolls)
92160C	Thermal paper, blue print, page perforated (box of 24 rolls)
92160M	Thermal paper, blue print (box of 1320 fan-folded sheets)
92160N	Thermal paper, black print (box of 1320 fan-folded sheets)

■ **HP 2686A LaserJet Printer**

92219H	RS232C cable to HP 150 (5 meters)
92219J	RS232C cable to IBM PC (5 meters)
92214P	Mobile printer stand
92215F	RS232C extension cable (15 meters)
92215T	RS232C extension cable (30 meters)
92285A	Toner (EP) cartridge—black
92285G	Toner (EP) cartridge—brown
92285B	8.5" x 11" paper tray
92285C	8.5" x 14" paper tray
92285F	LaserJet forward collator
92285D	Metric A4-size paper tray
92285E	Metric B5-size paper tray
92285P	Font Organizer
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)
92286J	Plug-in type-font cartridge (Math Elite)
92286H	Plug-in type-font cartridge (Legal Courier)
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)
92286Q	Plug-in type-font cartridge (Memo 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)

■ **HP LaserJet 500 Plus**

92287B	Paper Cassette Tray (Letter Size)
92287C	Paper Cassette Tray (Legal Size)
92287D	Paper Cassette Tray (A4 Size)
92287E	Paper Cassette Tray (B5 Size)

■ **HP 82905A/B Dot-Matrix Printer**

92156A	Ribbon cartridges (box of 2 cartridges)
92157A	Printer paper, fan-folded (box of 2400 sheets)
92157C	Printer paper, microperforated, fan-folded
92154P	Print head
92171S	Desktop printer stand
92250T	Dust cover

■ **82906A Dot-Matrix Printer**

92154N	Print head
92156A	Ribbon cartridges (box of 2 cartridges)
92157A	Printer paper, fan-folded (box of 2400 sheets)
92157C	Printer paper, microperforated, fan-folded (box of 2400 sheets)
92171N	Forms tractor unit
92171S	Desktop printer stand

For HP 7470A and 7475A Plotters

■ **Non-Glossy Plotter Paper**

New numbers	Size/Sheets	Old Numbers
17800P	A/50	9280-0589
17801P	A/250	9280-0517
17802P	A4/50	9280-0588
17803P	A4/250	9280-0519
17804P	B/50	9280-0614
17805P	B/250	9280-0518
17806P	A3/50	9280-0615
17807P	A3/250	9280-0610

■ **Glossy Plotter Paper**

New numbers	Size/Sheets	Old Numbers
17900G	A/100	9280-0640
17901G	A4/100	9280-0642
17902G	B/100	9280-0641
17903G	A3/100	9280-0643

■ **Non-Glossy Paper and Pen Kits**

New numbers	Size	Old Numbers
17820PK	A	5061-5070
17821PK	A4	5061-5071

■ **Transparency Plotter Film**

New numbers	Size/Sheets	Old Numbers
17700T	A/50 (7440/70)	9270-1126
17701T	A4/50 (7440/70)	—
17702T	A/50 (7475 + others)	9270-1181 9270-1128
17703T	A4/50 (7475 + others)	9270-1182

■ **Transparency Plotter Kits**

New numbers	Size/Plotter	Old Numbers
17715TK	A/7440 + 7470	5061-7561
17716TK	A4/7440 + 7470	—
17717TK	A/7475 + others	5061-7583 5061-7560
17718TK	A4/7475 + others	5061-7584

■ Fiber-Tip Paper Pens

New Numbers .3mm	New Numbers .7mm	Single-color (5 pens/pkg)	Old Numbers .3mm	Old Numbers .7mm
17825P	17826P	Black	5060-6787	5060-6890
17827P	17828P	Green	5060-6786	5060-6892
17829P	—	Aqua	—	—
17831P	17832P	Blue	5060-6785	5060-6891
17833P	—	Violet	—	—
17835P	—	Brown	—	—
17837P	—	Yellow	—	—
17839P	—	Orange	—	—
17841P	17842P	Red	5060-6784	5060-6893
17843P	—	Red-Violet	—	—
		Multi-color		
17845P	17846P	Std Assort	5060-6810	5060-6858
17847P	17848P	Cool Assort	5060-6894	5060-6895
17849P	17850P	Warm Assort	5060-6894	5060-6895

■ Fiber-Tip Transparency Pens

New Numbers .3mm	New Numbers .6mm	Single-color (5 pens/pkg)	Old Numbers .3mm	Old Numbers .6mm
17725T	17726T	Black	5061-5010	5061-5020
17727T	17728T	Green	5061-5015	5061-5025
17729T	—	Aqua	—	—
17731T	17732T	Blue	5061-5016	5061-5026
17733T	—	Violet	—	—
17735T	—	Brown	—	—
17737T	—	Yellow	—	—
17739T	—	Orange	—	—
17741T	17742T	Red	5061-5012	5061-5022
17743T	—	Red-Violet	—	—
		Multi-color		
17745T	17746T	Std Assort	5060-6818	5060-6819
17747T	17748T	Cool Assort	5060-6834	5060-6835
17749T	17750T	Warm Assort	5060-6834	5060-6835

■ Solvent

5060-6828	One ounce (29.6 ml) of solvent for refreshing dry transparency pens

■ Accessories

92171S	Desktop stand (7470A)
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
92250N	Dust cover (7470A)
92214P	Mobile support stand (7475)

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

- *Introduction to Personal Computers*

  For managers and professionals with limited knowledge of personal computers. Content: General personal computer usage including basic computer literacy, lots of hands-on use of VisiCalc®, hands-on use of word processing and graphics; summary of how PCs can work for you.

  35119A (1 day)

- *Getting Started With the Portable*

  If you're a novice computer user interested in learning how to use the HP Portable, this workshop is for you. It includes instruction on P.A.M., MemoMaker, and Terminal, along with an introduction to Lotus™ 1-2-3™ and Personal-Desktop Link. You'll get hands-on experience with the computer, the built-in applications, and HP-IL peripherals.

  35036C (1 day)

- *Getting Started with your HP 150*

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

  35036A (1 day)

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

- *HP 12x User Course*

  For any user of the HP 120/125. Content: Introduction to the HP 12x and the use of Word/12x; second day covers Graphics/12x, VisiCalc/12x, and DSN/Link/12x.

  35042B (2 days)

  This course, or equivalent knowledge, is a prerequisite for all applications and programming training on the HP 12x.

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, data base 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 stress hands-on work with the HP 150 during class time for maximum effectiveness.

- *Introducing 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.

  45688A (1 day)

- *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.

  35125A (1 day)

- *WordStar®/150*

  The WordStar® workshop 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.

  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.

  35123C (½ day)

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

  35123A (1½ days)

- *Condor/150 20-1*

  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.

  35124B (1 day)

- *Condor/150 20-3*

  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.

  35124C (1 day)

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

  35124A (2 days)

- *HP 150 Applications: Sharing Information*

  Because you may use the same information in different ways, this workshop was created to teach you how to pass information from one software application to another. The following applications are covered: Condor, PCF, MailMerge, MemoMaker, SpellStar, Graphics, and WordStar.

  35037A (½ day)

HP-Conducted Programming Courses	■ HP 12x Programmer training is provided by the *HP 12x Program Development Course,* which covers CP/M®, the specifics of Series 100/BASIC, and the assembly language. This course is designed for those who have programming experience in both BASIC and an assembly language. 34043A (5 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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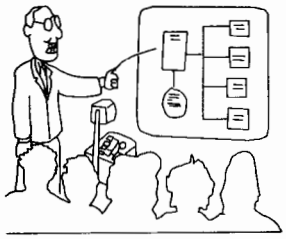
Classroom Learning Packs

Carla Klein



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. And the course is easy to teach because the focus is on extensive hands-on practice with the software. In some cases, computer based training (CBT) has also been developed and integrated with the learning program.

Classroom Learning Packs are offered for:

Executive MemoMaker/Vectra and IBM PC/XT/AT includes 1 Student Training Disc (CBT) 89912F

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

HP Access/Touchscreen and 150 includes 1 Student Training Disc (CBT) .89914A

The Gallery Collection/Vectra and IBM PC/XT/AT includes both Drawing and Charting Gallery 68352V

Drawing Gallery/Vectra and IBM PC/XT/AT includes 1 Student Training Disc (CBT) 68351V

Charting Gallery/Vectra and IBM PC/XT/AT 68350V

Each course may be taught in approximately four hours. During most of this time 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, each Classroom 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.

Executive MemoMaker	The Executive MemoMaker Learning Pack covers creating and revising memos, printing documents, using the keyboard, and using MemoSpeller with MemoMaker on Vectra or an IBM PC/XT/AT. Computer based training is used for several lessons and one student training disc (CBT) is included with the Pack. Each workstation in the class will require one training disc. Additional training discs are available in a pack of five as product number 89919F. The CBT may also be given to students to take with them after class for use as a review tool.
Drawing Gallery	The focus of the Drawing Gallery Learning Pack is intensive hands-on practice with the software. This is accomplished with computer-based training as well as self-instructional worksheets. One student training disc (CBT) is included with the Pack. Each workstation in the class will require one training disc. CBT may also be used as self-paced training for an individual user at his/her workstation. A package of five training discs is available as product number 68351P. Other topics covered in the Learning Pack are: using the Drawing Gallery discs and manuals; additional uses of Drawing Gallery; and suggestions for learning additional topics.
Charting Gallery	The Charting Gallery Learning Pack contains modules on basic charting concepts, using the Charting Gallery manuals, and creating pie, bar, and line charts.
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.
HP Access	The HP Access Learning Pack covers basic database concepts, retrieving data, performing a query, sorting, summarizing, and placing a table in a document. Computer based training is incorporated in this course and one student training disc (CBT) is included with the Pack. Additional training discs are available in packs of five as product number 89921A. The CBT may also be given to students to take with them after class for use as a review tool.

Ordering Information	To order Classroom Learning Packs or Student Training Discs, contact your local HP dealer or HP office.

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HP FastTrak Self Study Packs

Carla Klein

HP FastTrak is comprehensive self-study training for user support personnel and expert users. Developed for Hewlett-Packard support personnel, FastTrak guides are now available for any user that desires information beyond the scope of the software documentation.

If you provide support services for personal computer users in your organization, HP FastTrak will make your job easier by helping you learn the ins and outs of the software quickly. Topics covered in each guide include product overview, supported configurations, features and uses, demo tips, integration with other personal computer applications, installation, performance, and technical tips. And, FastTrak is completely modular so you can learn what you want, when you want.

FastTrak can help you provide several software services: product evaluation, installation, configuration, and user support. Experienced end-users will also appreciate a copy for handy reference. The format is consistent with the software documentation to simplify the learning process.

HP FastTrak guides are now available for six software applications:

Executive MemoMaker (89915F)
Executive Card Manager (89916F)
HP Access (89917A)
AdvanceLink/AdvanceLink 2392 (89918F)
Drawing Gallery (68351X) and
Charting Gallery (68350X)

Also available is HP FastTrak for the Gallery Collection (68352X), which includes the Charting Gallery and Drawing Gallery FastTraks.

Each guide covers the Touchscreen/150 and Vectra versions of software. FastTrak for Executive MemoMaker, Executive Card Manager, and Charting Gallery also include diskettes—one in 3½" format and one in 5¼" format—of demonstration files.

To order HP FastTrak, contact your local HP dealer or HP office.

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Ordering *Communicator* Back Issues

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

To order, refer to the "How to Order" section at the end of this insert.

Listed below are the major articles of the "white pages" of each issue. The Encyclopedia articles of past issues are listed in the Encyclopedia Index in this issue. There is no index for Newsline and Bugline column items which appear in each issue.

HP 120 and HP 125

Issues #1 through #6 cover primarily the HP 12x. (8½" x 11" page size)

Issue #1 includes the following major articles:

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

Communicator Issue #1 5955-3937

Issue #2 includes the following major articles:

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

Communicator Issue #2—U.S. 5955-3943
Communicator Issue #2—Intl. 5955-3947

Issue #3 includes the following major articles:

-"Disc Formats on the HP Series 100"
-"Non-HP 12x CP/M Programs—Will They Run?"
-"Long Documents with Series 100/Word"
-"Series 100/Word: Y Table Gymnastics"
-"Using Graphics to Your Advantage"
-"Condor Tips"
-"Adding Your Application Program to the WELCOME Menu"
-"Using Softkeys on Non-HP Systems"
-"Changing Printer Characters"
-"Using The HP 2121 Disc Drive with Your HP 125A"

Communicator Issue #3 5957-6213

Issue #4 includes the following major articles:

-"International System Summary"
-"Condor News"
-"Comparing BPI and Peachtree Accounting"
-"Printing Mailing Labels from Condor"
-"More on HPMAIL and the Series 100"
-"File Transfers Using PIP"
-"Accessing a Plotter from BASIC"

Communicator Issue #4—U.S. 5957-6204
Communicator Issue #4—Intl. 5957-6214

Issue #5 includes the following major articles:

-"Enhanced Installation Program Available"
-"Video Display Interface for the HP 125"
-"Comparing Condor and dBASE II"
-"Sending Escape Codes to Printers from WordStar and Condor"
-"Interchangeability of Word and WordStar Text"
-"Two-Column Print in WordStar"
-"WordStar Quick Tips and Defaults"
-"Getting VisiCalc to Round Dollar Values to Two Places"
-"Word: Wandering HP 2601A Printer Margins with the Sheet Feeder"
-"DSN/Link: Enhanced File Transfer Capabilities over Link/125"
-"Connecting Two Series 100 Systems for ASCII File Transfer"
-"Transferring IMAGE/3000 Data to a Condor Database"
-"Transferring Data to the HP 2700 Color Graphics Terminal"

–"Installing the Operating System on Your Fixed Disc"
–"Using the HP 2631B HP-IB Printer with Series 100"
–"Programming Challenge—Bypassing WELCOME"

Communicator Issue #5—U.S. 5957-6205
Communicator Issue #5—Intl. 5957-6215

Issue #6 includes the following major articles:

–"CSC Graphics Available on the Series 100"
–"New Auto Shutter for 3½ inch Micro Flexible Discs"
–"Introducing Enhanced DSN/Link"
–"Microsoft BASIC Compiler"
–"Using Block/Format on the Series 100"
–"Correction—Printing Mailing Labels From Condor"
–"WordStar/100 Multiple Column Print Update"
–"Remote Access to the HP 125"
–"Using the 92911A Bar Code Reader on the HP 125"
–"Configuring the Series 100 for use with the Diablo 630 Printer"
–"An Alternative to ALPHASORT for Series 100/Word"

Communicator Issue #6—U.S. 5957-6206
Communicator Issue #6—Intl. 5957-6216

HP 150 Touchscreen and HP 12x

Issues #7 and #8 cover primarily the HP 150 Touchscreen and HP 12x. (5½" x 8½" page size)

Issue #7 includes the following major articles:

–"Transferring Files Between the HP 12x and HP 150"
–"Data Compatibility Between HP 12x and HP 150 Applications"
–"HP 12x: PIP, COPY, and BACKUP"
–"Comparing VisiCalc and MicroPlan"
–"WordStar Microspace Justification"
–"Configuring WordStar/150 for your Printer"
–"Condor Tips"
–"Correction: Remote Access to the HP 120/125"
–"BASIC/150: Block Mode Transfers"
–"HP 12x BASIC Compared to HP 150 BASIC"
–"Subtle Difference: HP 12x/150 BASIC and Other BASICs"

Communicator Issue #7—U.S. 5957-6207
Communicator Issue #7—Intl. 5957-6217

Issue #8 includes the following major articles:

–"HP 150 Goes Worldwide"
–"HP 12x Fixed Disc Support Now Available"
–"Future Plans for the HP 120 and HP 125"
–"Using Plotters with the HP 150"
–"Installing dBASE II on the HP 150"
–"Three-Column Print in Word/12x"
–"Plotting Condor Data with HP Graphics"
–"Transferring Data Between a Series 100 Computer and an IBM PC"
–"Accessing Plotters from BASIC/150"
–"BASIC: How Do You Make RND More Random?"
–"Install Your BASIC/150 Application in PAM"
–"Decrease BASIC/150 Debugging Time with Cross Reference Utility

Communicator Issue #8 5957-6218

Portable, HP 150 Touchscreen, HP 12x

Issues #9 and onward cover the Portable, HP 150 Touchscreen, and HP 12x. (5½" x 8½" page size)

Issue #9 includes the following major articles:

–"PIPping Files on Your HP 12x"
–"From Numbers to Charts on the HP 150: dBASEII to Series 100 Graphics"
–"HP 150 Graphics: From the Screen to Your Printer"
–"Using Lotus/150 1-2-3 with the 7475A Plotter and B-size Paper"
–"Running Applications from MS-DOS on Your HP 150"
–"Word/12x: Rapid Returns"
–"Localizing Your HP 150"
–"Using Record Mode on the HP 150"
–"Escaping in High-Level Languages"
–"Access to the Touchscreen via MS-Pascal/150"
–"So You Want to Write Programs for the HP 150"
–"Introducing PFS:File and PFS:Report for the HP 150"
–"GraphPlan: New Integrated Spreadsheet and Graphics Software"
–"New Simulations—and a Chess Game—for the HP 150"
–"Challenging New Recreational Software for Series 100 PC Users"
–"The Portable: Desktop Capability in a Notebook-Sized Package"
–"The Portable: Compatibility with the HP 150"
–"Battery-Powered Peripherals for The Portable"
–"dBASEII for The Portable . . . and a New Version for the HP 150"

Communicator Issue #9 5957-6219

Issue #10 includes the following major articles:

–"Removing Soft Hyphens in WordStar/12x"
–"Adding Data Points to Linear Charts in Graphics/12x"
–"Internal Rate of Return: Using the Iteration Option in Multiplan"
–"Lotus 1-2-3: Disc Drives, Peripherals, and Data Bases"
–"Setting User-Defined Function Keys in dBASE II"
–"A 'Help' Menu for CP/M Utilities"
–"Transferring Fixed-Length ASCII Records via DSN/Link"
–"A Feature-by-Feature Comparison of the HP 150 and HP 2623A Terminals"
–"Saving HP 150 Screen Graphics"
–"BAT/150: A Fast, Easy Way to Obtain an .EXE File"
–"Graphics on the HP 150: Filling Polygonal Areas"
–"The Newest Members of the HP 150 Family"
–"Two New Programming Tools for HP 150 Users"
–"Double-Sided Disc Drives for the HP 150B"
–"Announcing the EtherSeries/150 Local-Area Network"
–"The HP 150B and the IBM PC Speak to Each Other"
–"Enhanced Condor Software Now Available for the HP 150"
–"Enhanced MicroPlan for the HP 150"

Communicator Issue #10. 5958-0250

Issue #11 includes the following major articles:

–"Inverting the Order of Items on Lists in Word/12x"
–"Using Memory Effectively in Lotus 1-2-3"
–"Moving Blocks of Text in MemoMaker"
–"Headings and Footings in Word/12x"
–"Installing the ThinkJet Printer with WordStar"
–"Writing Your Own Menu Routines"
–"Using Escape Codes to Create Function Keys in COBOL"
–"Reads with Handshaking in HP 150 BASIC"
–"Double's No Trouble"
–"Precision Problems in Microsoft Languages"
–"Presenting The Graphics Gallery"
–"Introducing Dow Jones Spreadsheet Link"
–"The BPI Family of Accounting Packages"
–"Turbo Pascal: A Hot Item"
–"Special Upgrade for Word/12x"
–"From Keyboard to Printer with Type-a-Line"
–"PFS: . . . for the HP 150"
–"MultiMate and Friends"
–"HP 125 Software Obsolescence"

Communicator Issue #11 5958-0251

Issue #12 includes the following major articles:

–"The HP Personal Computer Assistance Program"
–"How to Use Diagraph"
–"Transferring Files from Condor to dBASE II"
–"File Transfers—Every Which Way—with The Portable"
–"MemoMaker on The Portable: Differences"
–"LaserJet Support under MultiMate and WordStar"
–"HP 120/125 Word and WordStar with the LaserJet"
–"Macros in WordStar"
–"File Transfers from VisiCalc to Condor"
–"What's So Special about BASIC?"
–"Useful Functions in BASIC"
–"General-Purpose Input Routines"
–"BASIC Relational and Logical Operations"
–"Fun with the Calendar"
–"Introducing the Touchscreen II"
–"ExecuDesk and the ExecuDesk System"
–"New Personal Productivity Center Release"
–"Introducing Print Central"
–"HPWORD/150—HP 3000 Word Processing"
–"HPAccess/Touchscreen and HPAccess Central"
–"Data-Storage Solutions for HP PCs"
–"Microsoft Word"
–"MS-DOS Manual Update for Touchscreen II Owners"

–"Announcing Deluxe VisiCalc"
–"Introducing VT100 Emulation for the HP 150B"
–"The Touchscreen 3278 Emulation Upgrade"

Communicator Issue #12. 5958-0252

Issue #13 includes the following major articles:

–"Condor/150: Computations Against Computed Values"
–"Condor/150: Sending Escape Sequences to Your Printer"
–"Diagraph and Picture Perfect: Positioning Multiple Pictures"
–"Lotus 1-2-3: Transferringt Files to and from PCF"
–"MS Word: How to PRINT MERGE Data from dBASEII"
–"MS Word: How to PRINT MERGE Data from Condor"
–"WordStar: Installing Multiple Copies on One Fixed Disc"
–"WordStar: Installing Multiple Copies on One Flexible Disc"
–"Helpful Hints for Compiling BASIC Programs"
–"Double-Referencing Variables in Compiled BASIC"
–"The 64 Dollar/K Question"
–"BASIC Floating Point Internal Representation"
–"BASIC General Purpose Error-Handling Routines"
–"A Complete Guide to BASIC Strings"
–"Introducing the Vectra PC"
–"Upgrading Your HP 150A or Touchscreen to a Touchscreen II"
–"Independent Software Vendor Program Update"
–"Introducing Executive Card Manager"
–"Symphony for the Touchscreen/150"

Communicator Issue #13. 5958-0253

Issue #14 includes the following major articles:

–"Word/12x: Printing the Unique Spanish Characters"
–"WordStar: Letter Quality Printing with an Okidata Printer"
–"WordStar: Underlining with an Okidata Printer"
–"Running the Vectra SETUP Program"
–"Programming Screen Enhancements on HP Vectra PC"
–"Video and the HP Vectra PC"
–"Graphing Data from Your BASIC Program"
–"Assembly Language Subroutines for BASIC Programs"
–"Introducing HP OfficeShare PC Local Area Network"
–"Introducing the New 1-2-3 for HP Vectra PC"
–"The Executive Series"
–"MicroPro Products for Hp Vectra PC"
–"New Supplies and Accessories"

Communicator Issue #14 5958-0254

Issue #15 includes the following major articles:

–"Condor and BASIC: Automatic Processing"
–"The Portable and the COPY CON Command"
–"The Portable: Creating a Backspace/Erase Key"
–"Condor: Using *End in V2.11 Command Files"
–"Using Lattice C with the Portable"
–"Touchscreen/150: Serial Communications"
–"Introducing MultiMate for HP Vectra PC and IBM PC/XT/AT"
–"HP Graphics Curator/3000: Touchscreen/150 and Host Based Graphics"
–"Introducing Classroom Learning Packs"
–"Introducing HP FastTrak Self Study Packs"
–"Touchscreen/150: Upgrade from R:BASE 4000 to R:BASE 5000"

Communicator Issue #15 5958-0255

Issue #16 includes the following major articles:

- "Touchscreen/150: Condor—Escapes Sequences to Your Printer"
- "Drawing Gallery: Creating Drop Shadow Boxes"
- "Terminal to System Connections: RS-232 vs. RS-422"
- "Touchscreen/150: Graphics Escape Sequence Programming"
- "Graphics Labels with Touchscreen/150 GW BASIC"
- "Date Functions for Series 100 BASIC Revisited"
- "Introducing the Enhanced Portable PLUS"
- "Update on HP's Personal Computer Software Support"
- "WordStar 2000, Release 2 for Vectra"
- "PC Software Corporate Licensing Program Now Available"
- "MultiMate on the Portable PLUS"
- "Portable PLUS Localization Kits"
- "Portable PLUS: New MemoMaker/Time Management ROM"
- "Executive Card Manager for the Portable PLUS"
- "REFLECTION 1 for the Portable PLUS"
- "R:BASE 5000: Application Express in Depth"
- "1-2-3 Release 2 for the Touchscreen/150"

Communicator Issue #16 5958-0256

Issue #17 includes the following major articles:

- "Vectra: Creating Labels with AdvanceWrite/ LaserJet"
- "Vectra: HP Access and GW BASIC"
- "Differences Between the Touchscreen/150 and Vectra"
- "Series 100 BASIC: Device Control and Printing Graphics"
- "Touchscreen/150: Hints for Compiling BASIC Programs"
- "Calling Assembler Subroutines from Interpretive BASIC"

- "Vectra: Announcing the Enhanced Graphics Display System"
- "Vectra: Welcome to the Graphics Gallery"
- "Vectra: Enhanced Executive MemoMaker Introduced"
- "Touchscreen/150/Vectra: New Learning Products"
- "Touchscreen/150/Vectra: Portfolios for Graphics Gallery"
- "Touchscreen/150: New LaserJet Drivers"

Communicator Issue #17 5958-0257

Additional copies of this current issue are available:

Communicator Issue #18 5958-0258

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	This article lists several data communications books which you may find helpful. For ordering information, refer to the "How to Order" article which appears later in this issue.
Touring Datacomm: A Data Communications Primer Hewlett-Packard, 1983	This book introduces you to the basic concepts of data communications, beginning with a discussion of simple communications concepts and gradually moving toward more complex topics. It covers hardware and software, transmissions methods and channels, line configurations and interfaces, signal conversion, multiplexing, common carrier services, network structures and capabilities, protocols, and architectures. It's designed for readers with little or no previous knowledge of data communications. HP Product Number 5957-4622
Communicating with IBM: An HP-to-IBM Communications Primer Hewlett-Packard, 1984	This primer builds on the information in the book above, **Touring Datacomm,** and focuses on the world of HP-to-IBM communications. An overview of HP-to-IBM networks is discussed, followed by an introduction to each of the main components of those networks. Topics include: IBM mainframes, IBM operating systems, job entry subsystems, communications controllers, basic SNA concepts, emulation, IBM remote devices, and HP-to-IBM data communications products. As you progress through this primer, you will read about HP products that run on various systems, including the HP Touchscreen, 250, 1000, 3,000, and 9,000. This book provides a valuable introduction to IBM and HP-to-IBM data communications. Written for individuals who have a general background in computers and data communications, but little or no previous experience with IBM systems or with HP-to-IBM products. HP Product Number 5957-4923

Making the LAN Connection: A Local Area Network Primer Hewlett-Packard 1984	This book presents a generic overview of local area networks (LANs) and gives some specific information on HP's LAN implementation. Topics discussed include the characteristics and advantages of LANs, some of the criteria for evaluating a LAN, common applications and options that must be considered for a LAN, industry standards and HP's LAN implementation, and a glossary which contains brief descriptions of terms used in the text. Written for those who have some familiarity with the concepts covered in **Touring Datacomm: A Data Communications Primer.** HP Product Number 5957-4624

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Software Exchange Kits— Upgrades, Updates, and Replacements for Damaged Discs

Willi McDowell

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 disc 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.

  The *Encyclopedia* article for your product explains the capabilities added or problems fixed in the latest version.

- **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.

  The *Encyclopedia* article for your product gives the details of new features.

- **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 given later in this magazine.
- Outside the U.S., contact your HP dealer or HP sales and service office for details.

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

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 disc.

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 discs 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 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 *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 discs. 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 #	Notes
Touchscreen (HP 150B) Operating System and Utilities		45626-63007	2
Sys Master Disc			
MS-DOS	B.02.02		
MS-DOS COMMANDS	B.02.02		
P.A.M.	B.02.02		
HPBIOS	B.02.02		
FORMAT	B.02.00		
DEV CONFIG	B.02.00		
Appl Master Disc			
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		45847-63004	3
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 #	Notes
3278 Emulation	A.01.00	45641-63001	
AdvanceLink (upgrade)	A.03.02	45431-63002	
AdvanceLink (update)	A.03.02	45431-63001	
Application Master (150 B)	B.02.00	45626-63006	
ASYST Scientific	A.01.52	14858-65001 14858-65002	
Auto Cad	A.02.01	47956-63001	
BASIC Interpreter	*A.01.01	45445-63002	
BASIC Compiler	*A.01.01	45446-63002	
Charting Gallery	A.01.00	45513-63001	
COBOL	A.01.00	45448-63001	
Compiled BASIC	A.01.01	45446-63002	
Condor 3	*A.02.11	45416-63002	1
CorrectStar (hard-disc upgrade)	3.31	45429-63002	
CorrectStar to SpellStar Upgrade	3.3.30	45429-63001	
dBASE II	*A.02.41	45468-63001	
Diagraph	A.03.00	45463-63001	
Drawing Gallery	A.01.00	45411-63002	
DSN/Link	A.01.01	45424-63001	
ExecuDesk	A.01.01	45444-63001	
Executive MemoMaker	A.01.00	45418-63002	
Forms Master	A.01.00	45443-63001	
FORTRAN	A.01.00	45449-63001	
FORTRAN Upgrade	*A.01.00	45449-63003	
Graphics (bar disc, pie disc, line disc, text disc, examples disc)	*A.03.01	45410-63001	
GraphPlan	1.00.T2	45467-63001	
GraphWriter	A.01.01	45484-63001	
GW BASIC	*A.01.00	45450-63002	
HP Word	A.00.00	27505-63001	
Lattice C Compiler	A.01.00	45452-63001	
Lotus 1-2-3:			
System Disc	1A	45482-63001	
System Disc	1A	45482-63004	
Utility	1A	45482-63002	
Tutorial 1&2	1A	45482-63003	
Printgraph	1A	45482-63005	

Product	Version	Order Part #	Notes
MailMerge	A.03.30	45401-63001	
MemoMaker	*B.01.02	45420-63001	
MemoMaker Time M	A.02.00	45504-64002	
MicroPlan	4.04.T2	45465-63001	
MicroPlan Consol.	4.04.T2	45466-63001	
MS Spell	A.01.00	45556-63001	
MS Word	B.01.00	45474-63002	
MultiMate	3.29	45424-63001	
MultiPlan	A.01.10	45473-63001	
Pascal	*A.01.00	45447-63001	
PCF	B.00.02	45422-63001	
Picture Perfect	A.03.00	45462-63001	
PFS: File & Report	A.02.41	45488-63001	
Print Central	A.01.01	36890-63001	
Prog. Tools/Portable	A.01.00	45419-63001	
Prog. Tools/150	A.01.00	45435-63001	
R:Base 4000	1.1	45545-63001	
R:Base 5000	1.1	45563-63002	
R:Base 4 K to 5 K	1.1	45563-63002	
SpellStar	A.03.30	45402-63001	
Symphony	1.1		
Prog. Disc, Tutorial, Help		45498-63002	
Printgraph, Utility Discs		45498-63003	
Install Prog., Library Discs		45498-63004	
Tutorial1, Tutorial2 Discs		45498-63005	
HPTel	A.01.01	45314-63001	
Transend COMplete	A.01.00	45414-63001	
Videotex	A.01.01	45314-63001	
VisiCalc	B.01.02	45405-63004	
VT100 Terminal Emulator	A.01.00	45412-63001	
WordStar (HP150)	*3.34	45400-63031	
WordStar Professional	3.34	45427-63003	
WordStar (150/110)	*3.34	45400-63030	

*Revised since original release

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

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 disc cannot be accepted. If you want a kit with 5.25" discs, please indicate this preference on your order. Otherwise 3.5" disc will be shipped, regardless of the size of your returned master disc.

Notes

1—Either a Condor 20-3 disc or a Condor-20-1-to-Condor-3 Upgrade disc can be exchanged for the Condor 3 disc.

2—Three double-sided discs, 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 (45849-63006) from your dealer or HP office. The upgrade kit includes the new operating system disc and the ROM integrated circuits required by the new disc; 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).

3—Double-sided exchange disc 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 (45849-63006) from your dealer or HP office. The upgrade kit includes the new operating system disc and the ROM integrated circuits required by the new disc; 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
Media Replacement

Product	Version or /Date Code	Order Part #	Notes
	A.05.02		
AdvLink 2392 (Upg.)	/2549	68333-65001	
MultiMate	/2538	68338-65001	
MultiMate Advantage	/2538	68343-65001	
R:Base 5000	/2537	68336-65001	
Symphony	/2538	68339-65001	
WordStar	/2538	68345-65001	
WordStar 2000	/2538	68341-65001	
WordStar 2000 +	/2538	68342-65001	
WordStar Professional	/2538	68346-65001	
Office Share Network Server	A.01.00/	50902-69601	
Office Share Network User	A.01.00/	50903-69601	
PC Instrument Data Acquisition	A.02.00/	14856-65001	
PC Instrument Data Acquisition (Upg.)	A.02.00/	14856-61001	
PC Instrument System	B.01.00/	61061-65001	
PC Instrument System	B.01.00/	61061-65002	
Print Central	A.01.00/	36890-65001	
Exec Spreadsheet	A.01.01/	68332-65001	
HP-IB Command Library (Upg.)		82990-65001	
1-2-3 by Lotus	2.0/	68340-65001	

Vectra PC
Media Replacement

Product	Version	Order Part #	Notes
HP-IB Command Library for MS-DOS (Upg.)	B.01.00/	61062-65003	
MS-DOS Op Sys Disc	A.01.03	45951-63001	
BASIC Interpreter	/2538	45952A	1
MS-DOS Macro Assembler		45953A	1

Notes

1—Because an exchange kit would be priced at approximately the same price as the original product, the order number is for the original product.

Portable
Software Exchange Kits

Product	Version	Order Part #	Notes
BASIC Interpreter	A.01.01	45445-63002	
BASIC Compiler	A.01.01	45446-63002	
DataFax	A.01.01	45408-63001	
dBASEII	*A.02.41	45468-63001	
Prog. Tools	A.01.00	45419-63001	
WordStar (HP110)	3.34	45400-63030	

*Revised since original release.

Discontinued Software
Replacement Media Exchange Kits

Product (Notes)	Version	Order Part Number† 3.5″ Disc	5.25″ Disc	Exchange Available Through
Touchscreen/150:				
BPI Gen. Acctg.	A.01.00	45455-63001	n/a	June, 1990
BPI Personal Acctg.	A.01.11	45459-63001	n/a	June, 1990
BPI Accts. Rec.	A.01.11	45456-63001	n/a	June, 1990
Condor 1/150	A.02.11	45415-63002	n/a	April, 1990
Context MBA/150	A.02.03	45481-63001	n/a	April, 1990
Graphics (bar disc, text disc, pie disc, line disc, examples disc)	A.03.01	45410-63001	n/a	April, 1990
VisiCalc	B.01.02	45405-63004	n/a	April, 1990

Discontinued Software
Replacement Media Exchange Kits

Product (Notes)	Version	Order Part Number† 3.5″ Disc	5.25″ Disc	8″ Disc
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 (3)	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 (5)	A.02.00	45550-13800	45550-15800	45550-18800
Condor 3/12x (4)	*A.02.01	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	

See notes on next page.

*Revised since original release.

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

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 disc cannot be accepted.

Notes

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

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

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

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 HP 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 disc drives and printers), and training courses, the items listed in this issue are also available by telephone from Hewlett-Packard:

- Australia ..... (03) 895-2645
  (03) 895-2615
  (03) 895-2815
  (03) 895-2861
- Austria ..... (0222) 2500-615
  (0222) 2500-616
- Belgium/Luxembourg ..... (02) 762 32 00
- Canada
  Toronto local ..... (416) 671-8383
  Ontario..... 1-800-387-3417
  Quebec..... 1-800-387-3417
  British Columbia 112-800-387-3154
  Other Provinces 1-800-387-3154
- Denmark ..... (02) 816640-258
- Finland ..... (90) 887 2361
- France ..... (1) 692 83 264
  (1) 690 77 825
- Greece ..... (81) 6471673
- Italy ..... (02) 9236 9437
  (02) 9236 9478
  (02) 9236 9585
- Middle East
  Athens ..... (01) 6828811
- Norway ..... (02) 171180
- South Africa
  Johannesburg..... (011) 8025111
  Cape Town ..... (021) 537954
- Spain 91-6374013
  91-6370011
- Sweden ..... (08) 7502028
  (08) 7502027
  (08) 7502204

	■ Switzerland . . . . . (057) 31 22 54 (857) 31 22 53 (057) 31 22 59 ■ The Netherlands . . . . . (020) 547 6606 ■ United Kingdom . . . . . (0734) 697201 ■ United States . . . . . 800-538-8787 Alaska, California, and Hawaii . . . 408-738-4133 ■ West Germany . . . . . (0130) 3322 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 disc must accompany an order for software update or upgrade kits. Therefore, they are available only through your local dealer or from HP by mail. 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. If you are ordering a Software Exchange Kit, return the original master disc to: Software Administrator/Internal Orders, Building 78/5 or to: Hewlett-Packard P.O. Box 60008 Sunnyvale, CA 94088 Attn: Software Administrator/ Internal Orders 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.

□

Ordering *Communicator* Subscriptions — Audrey Carlson

The *HP PC Communicator* is the heart of the support program for The Portable, the HP 150 Touchscreen, the HP 12x, and the Vectra PC.

This publication contains articles on how to best use your system—plus each issue includes sections of the "HP PC Encyclopedia."

The "HP PC Encyclopedia" brings together all the current information you need, in addition to the manuals, for each of the software packages that you use. New and revised Encyclopedia articles are sent to you as part of the *Communicator.*

You can order a subscription just as you order supplies and accessories—through your dealer, by using HP's special telephone orderlines, or through your local HP office. (See the "How To Order" section in this insert for the special HP telephone number for your area.)

HP PC Communicator—
U.S. 45530A
HP PC Communicator—
Canada/Mexico 45530B
HP PC Communicator—
International 45530C
(Subscriptions outside the U.S. are sent by accelerated mail.)

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

Address Corrections for *Communicator* Subscribers

Change the information on the mailing label by sending us the Change of Address form which appears at the end of this Current Information Insert. Allow 6 to 8 weeks for the change to take effect.

HP Internal Users

Have your purchasing department enter an I2 order on HP division A5 (DMK).

HP Employees

Check with the Employee Computer Program Coordinator in your personnel or purchasing department for Direct Marketing Division (DMK) ordering instructions.

□

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 disc 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 disc (containing the software being updated) for each update kit ordered. This is the disc 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 disc 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	Product Number	Description	Quantity	Unit Price	Amount
1				.	.
2				.	.
3				.	.
4				.	.
5				.	.
				Subtotal	.
				State/Local Taxes	.
				TOTAL	.

Tax Exempt? ☐ No ☐ Yes

Tax Exempt or Resale Number

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 _____

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Signature _____

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Change of Address Form for *Communicator* Subscribers

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(please print)

Old Address:
(attach mailing label or fill in information as it appears on mailing label)

Name _____ (Title) _____

(Company) _____

Address _____ (Bldg No./Mail Stop) _____

City _____ State _____ Zip _____

Country _____

New Address:
(exactly as it should appear on the mailing label)

Name _____ (Title) _____

(Company) _____

Address _____ (Bldg No./Mail Stop) _____

City _____ State _____ Zip _____

Country _____

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