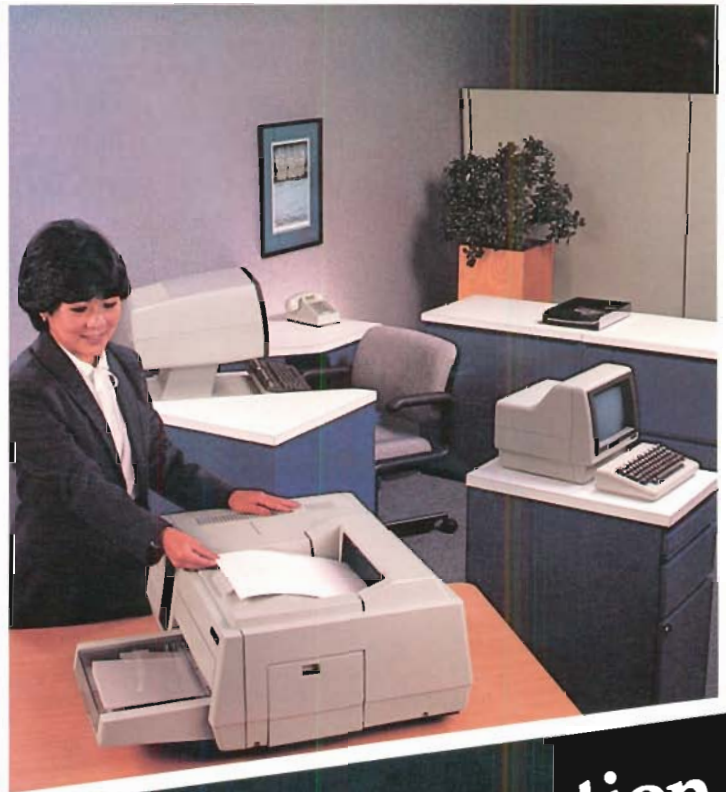
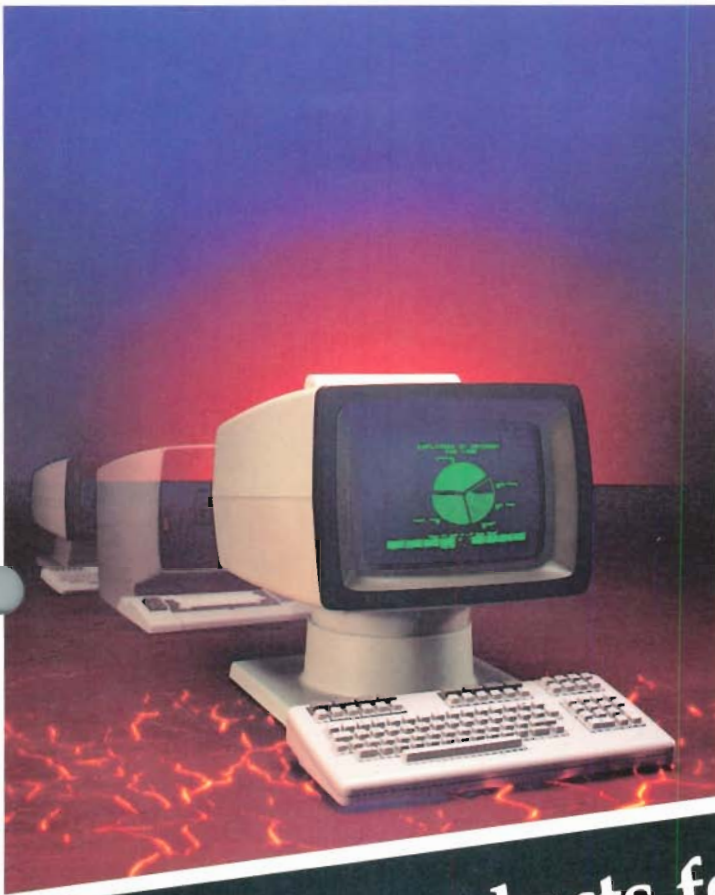
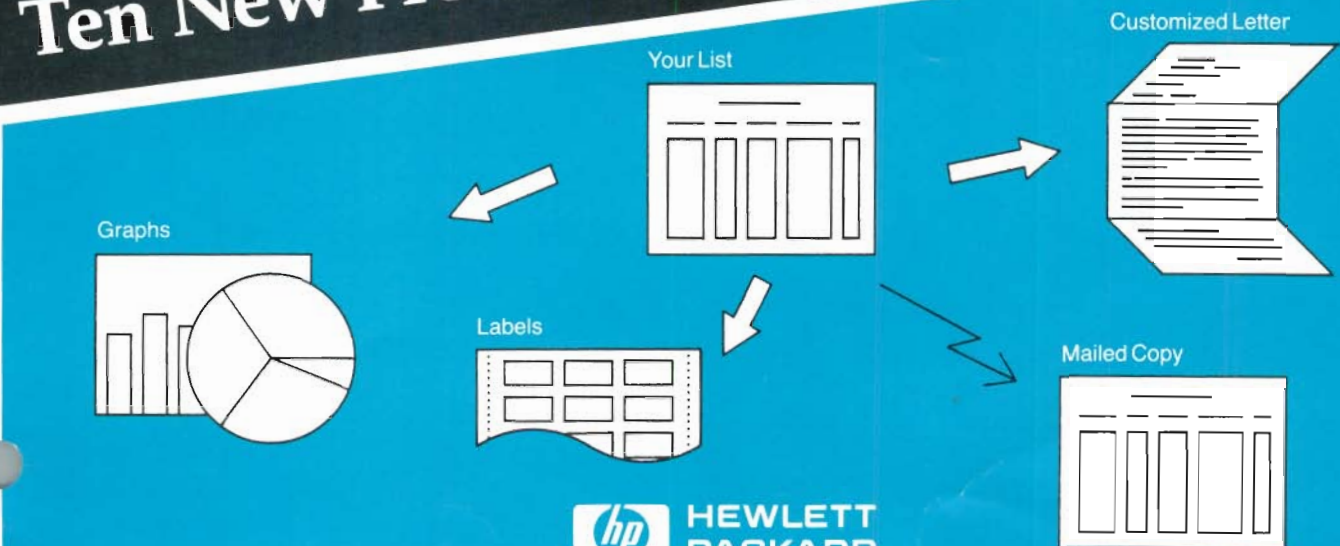


Computer Advances

November/December 1983



Ten New Products for Office Automation



 **HEWLETT
PACKARD**

New Winchester discs at reduced prices

Designed to make the best use of your desk space, a new family of 5- and 15-Mb Winchester disc drives is available for personal computers. If you stack them directly under HP's small footprint computer systems, they look totally integrated. But you can easily change mass storage products as your needs change.

Three different configurations are available. The HP 9133V and HP 9133XV are 5- and 15-Mb versions (4.8 and 14.5 megabytes formatted, respectively) combined with a 270Kb 3½-inch microfloppy.

The HP 9134XV is a 15-Mb stand-alone Winchester. Each unit is compact — measuring only 5" by 12.8" by 11.2". The increased storage capacity of the new 15-Mb versions permits you to keep entire software libraries resident on disc. This not only eliminates the need to reload often-used programs, but also increases the speed at which most programs run.

In addition, database management programs and other professional business applications that require constant disc access are better suited to the wear-resistant "flying head" technology of a Winchester.

The HP Series 200 Model 16 personal technical computer supports all three discs. HP Series 80 personal



computers and the HP 120 and 125 support only the 5-Mb HP 9133V. Contact your HP dealer or Sales Rep, or call 1-800-FOR-HPCC, for more

information.

Third party software enhances HP personal computers

Now you can choose software packages to use with the HP Series 200 Model 16, the HP-86 and -87, HP 120 and 125. They include Perfect Writer, Perfect Speller, Perfect Calc and Perfect Filer, all products of Perfect Software, Inc.

Perfect Writer is a highly rated word-processing package that provides extensive character, word, sentence and paragraph editing. You can edit up to seven documents at one time and take advantage of a split-screen capability to view any two of the seven simultaneously.

Perfect Speller provides a 50,000-word dictionary to check spelling and may include words unique to a specific subject.

Perfect Calc permits up to seven separate spreadsheets to be on-line simultaneously; you can view any two at the same time. Features include multiple editing, subsetting and merging, and a user-expandable function library. Seventeen fully integrated applications programs are included.

Perfect Filer provides menu guides for creating customized data files and a forms capability for inputting

and displaying them. It is capable of performing up to five simultaneous sorts on as many as 65,000 records and provides up to 20 selective subsets for a single data file.

All four software packages may be ordered together, or Perfect Writer and Perfect Speller may be ordered separately as a two-piece unit. On the HP Series 200 Model 16 and HP-86 and -87 models, the CP/M®-68K or CP/M® operating system is required.

Series 80 software pac lets you communicate by phone

Professional Communications is for people who need to communicate with other personal computers, with remote data services or with mainframes which support dial-up connection to character-mode terminals. This product gives you new capabilities and has the potential to save money in existing applications by running at 1200 baud or by taking advantage of non-prime time phone rates.

Professional Communications is advanced software for communication by phone lines at 300 or 1200 baud. This package includes communications, text editing and keyed file management in a single software environment. With this pac, you can:

- Create and edit text files for later printing or transmission to other

computers. Excerpts from existing files can be merged into the file being edited.

- Send files or keystrokes to another computer via phone lines, attended or unattended.
- Set up your computer as a "bulletin board" system to receive messages and queries from other computers. Any computer can call, including non-HP computers. All activity is stored in files for later reference or posting on the bulletin board.
- Audit past communications activity: who called, what messages were received, etc.
- Organize and access files by keys: SUBJECT, DATE, FROM, etc.
- Secure or encrypt files and communications.

To use Professional Communications, you will need a disc drive, Series 80 modem (or external modem connected by 82939A opt. 001 interface), a ROM drawer and I/O ROM. You can choose 3½" or 5¼" media. On the HP-85B you will also need an advanced Programming ROM. If you have an HP-85A or HP-86A, additional hardware may be required.

External modems without auto answer and autodial (or acoustic couplers) can be used but will limit the software's capability. An example of how to use the Hayes Smartmodem auto-answer/autodial 1200 baud modem is included in the manual.



High-performance local networking on HP 9000s

HP LAN 9000 software provides local area networking of HP-UX based HP 9000 Series 500/600/700 computers via an Ethernet-compatible 10Mbps link. LAN 9000 is transparent to you and provides multi-user, multi-service, multi-connection capability.

Here is how the linking occurs: The Series 500/600/700 is connected to the LAN Unit through a dedicated HP-IB interface. The LAN Unit is then connected to the 10Mbps Ethernet coax by way of a transceiver cable and transceiver that taps directly into the Ethernet coax. The microprocessor-based LAN Unit is downloaded from the host HP 9000 with networking link software, which in turn allows the Series 500/600/700 to connect to the local network.

The networking software provides a full complement of services:

- Remote file access allows access to directories, data files, special files and peripherals across the network.
- Network file transfer lets you transfer files within the network.
- Remote process management provides the capability to start or stop

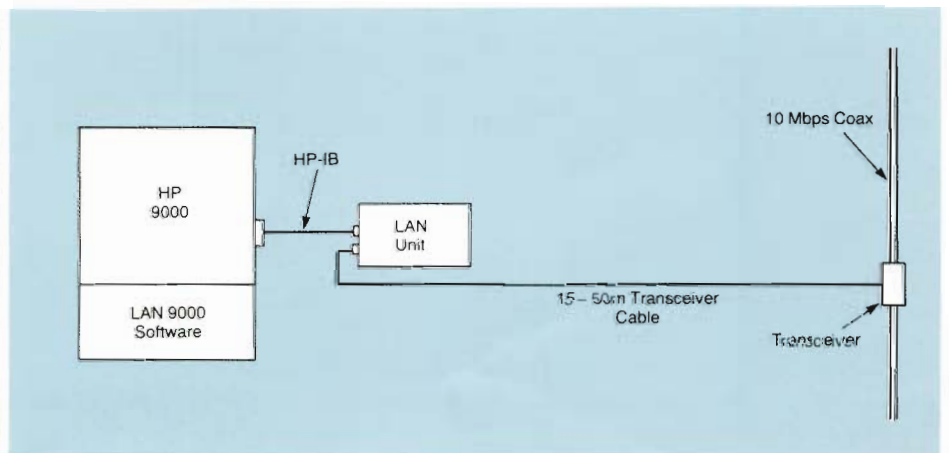
processes on systems throughout the network.

- Interprocess communication is a means by which simultaneously running processes can communicate.

With LAN 9000, Hewlett-Packard provides a complete networking solution with a user interface requiring little data communications knowledge. Compare this to the vendors that provide the hardware connection only, leaving the networking software for you to write, and the HP benefits are obvious. Additionally, you can execute a

diagnostic that provides single node verification and loop-back testing of other nodes, without disrupting activities on other systems on the network.

HP LAN 9000 networking software is easily expandable and provides a natural path to future protocols and capabilities. This software will be valid for future solutions, as it provides a foundation for compatible communication with the HP 1000, HP 3000 and Series 210 (HP-UX based Series 200) computers.



New workstations offer IBM compatibility, HP word processing and graphics

Two new terminals with low prices provide individual workstation capabilities for office automation and data processing applications.

The HP 2625A dual-system display terminal can communicate simultaneously with HP and IBM systems. By pressing a single function key you can switch between HP and IBM. On the latter, the terminal emulates the IBM 3276 display station.

This workstation offers convenience and low cost to multiple system users with HP 2622A data entry features on port 1 and IBM 3276 features on port 2. Graphics and word processing options provide you with HP software compatibility.

The HP 2628A word processing workstation, designed for secretaries, operates under the control of HP Word software from the HP 3000. It is priced 37 percent below



and replaces the HP 2626W word processing terminal. You get fast 19.2 Kb per second system datacom and an RS-232C printer control port.

Like the HP 2625A terminal, the HP 2628A terminal offers optional graphics capability and HP VPlus compatible data entry feature sets. Both store up to six pages of text, and you can order an optional integral printer. Math and line drawing come standard with both terminals. Eleven national language character sets are available.

Ergonomic design features include a high-quality, low-glare, flicker-free display with large 9 x 14 dot character cells. You also get smooth vertical scrolling and an optional tilt-and-swivel base.

For more information, contact your HP Sales Rep.

Use electronic spreadsheets on your HP Series 80 computer

You can now choose from the most powerful and popular spreadsheet products on the market for analysis on the HP-86/87 personal computers.

Multiplan

Multiplan, a powerful electronic spreadsheet, is a CP/M® product produced under license from Microsoft Corp. Recently named "product of the year," its advanced features include file consolidation to allow you to reference multiple spreadsheets, variable column widths, label addressing, multiple windows (up to eight), and compatibility with other CP/M® products. Multiplan is distributed by HP (product no. 82855A) in either 3½" or 5¼" disc media.

Supercalc II

Supercalc II, an advanced version of Supercalc I, is available for the HP-86/87 from SORCIM Corp. Supercalc II is also a CP/M® product which sup-

ports many of the same features as Multiplan.

Microplan

Microplan, a CP/M® program that runs on HP Series 100 computers, is now available for the HP-86/87. Unlike other spreadsheet products Microplan is row- or column-oriented rather than cell-oriented. This makes it particularly suitable for large, complex or repetitive modeling applications.

In addition, Microplan contains built-in functions for depreciation, loan amortization and progressive tax analysis. Features such as programming interfaces to other systems and file consolidation let you automate information analysis for unique applications.

Perfect Calc

Perfect Calc is now available to you for HP Series 80 computers as part of the Perfect Pac which also in-

cludes Perfect Writer, Perfect Speller and Perfect Filer. This provides you with a 'high-end' CP/M® data compatible set of productivity software.

Perfect Calc uses virtual memory architecture and multiple file buffers which allow you to have several different spreadsheets in memory at the same time and have them all working together and sharing data. Perfect Calc offers you a built in function library which lets you incorporate your own equations and financial ratios.

Perfect Calc is fully integrated with the Perfect Writer word processor. In addition to having a common command structure, spreadsheets can be transferred directly to Perfect Writer for further editing and inclusion in documents and reports.



AUSTRALIAN AREA NEWS



Since its inception in 1939, Hewlett-Packard has had a distinctly different way of conducting its business affairs. Over the years this way of doing business has become known to HP and our customers as the "HP Way." The "HP Way" became the basis for establishing and building relationships with our customers.

When Bill Hewlett and Dave Packard formed the Hewlett-Packard company, they established a set of objectives under which all HP employees would be judged. One of these objectives is stated as follows:

To provide products and services of the greatest possible value to our customers, thereby gaining and holding their respect and loyalty.

For the past several years Hewlett-Packard has shown significant sales growth, particularly in the computer-related business segment. We have added many new people to our sales and support organizations to accommodate this growth. You may ask if this growth and the hiring of so many new employees will alter our intention to continue doing business as we have in the past. You can be sure that the answer to this question is an unqualified "no."

The above objective is as important to HP employees as it is to our customers because we know that customer loyalty is the cornerstone of our business. We have established training courses which are designed to teach our new employees not only product knowledge, but also underlying company philosophies. We intend to do all that is within our power to keep customer satisfaction as high as Bill and Dave intended when they established the objective.

I would like to personally ask each of you to call me or any other HP manager if you have any concerns or questions about any aspect of the relationship between HP and your company. Only with good communication, including feedback on our performance, can we continue to offer the kind of service on which our company was founded.

AUSTRALASIAN COMPUTER GROUP MANAGER

HP out in the cold

The first Brazilian expedition to Antarctica included an HP-41 CV calculator. Brazil is a party in the International Antarctica agreement which obliges its members to conduct scientific research in

Antarctica. Brazil's two month expedition, called Proantar, took along the HP calculator to measure water salinity, nutrient indicators and dissolved oxygen in water.

New EPN Brochure Outlines CAE Strategy



A new Engineering Productivity Network brochure is now available which presents the HP 9000 Desktop Computer (Series 200 and Series 500) and describes Hewlett-Packard's Computer-Aided Engineering strategy.

Sections of this informative brochure discuss the computer's place in CAE, how HP products fit in the CAE picture, and the part networking plays in the EPN.

A copy of this brochure may be obtained by returning the reply-paid card and specifying EPN brochure No. 5952-0167.

Turning Disney's dreams into reality

Real-life HP products work behind the scenes in the wondrous, make-believe world of Walt Disney.

When the sound engineer at Walt Disney Studios saw HP's first audio oscillator, he realized it would be useful in producing movie soundtracks. So he bought eight of them for the movie *Fantasia*. That large order convinced Bill Hewlett and Dave Packard that their young company had a good chance to survive in the electronics world.

Those original eight oscillators were part of the racks of sound equipment used to produce the 1940 Disney hit *Fantasia*. The movie was then on the cutting edge of sound technology and featured music performed by the

Philadelphia Orchestra, under the direction of Leopold Stokowski.

More recently, HP's computer equipment helped produce another Disney motion picture, *TRON*, that explored new animation techniques.

In the 42 years between those two movies, both HP and Disney have grown and diversified, yet their paths still cross on a regular basis.

At Disney's original amusement park, Disneyland, in Anaheim, California, there's HP instrumentation working behind the scenes to check and calibrate sound systems throughout the park. That means that the 10 million people who visit the park each year can enjoy virtually glitch-free entertainment.

At the second "Magic Kingdom", Walt Disney World in Orlando, Florida, six HP 85 computers are used in the accounting department to count each day's incoming paper money. After the bills have been separated into piles of ones, fives, tens, etc., the piles are placed on super-sensitive electronic scales hooked to the 85s.

The computer tells, in dollars, how much the pile of bills is worth. The equipment is recalibrated daily to compensate for changing atmospheric conditions that can affect how much the bills weigh. The application is considered "the most sophisticated money-counting system in the country."

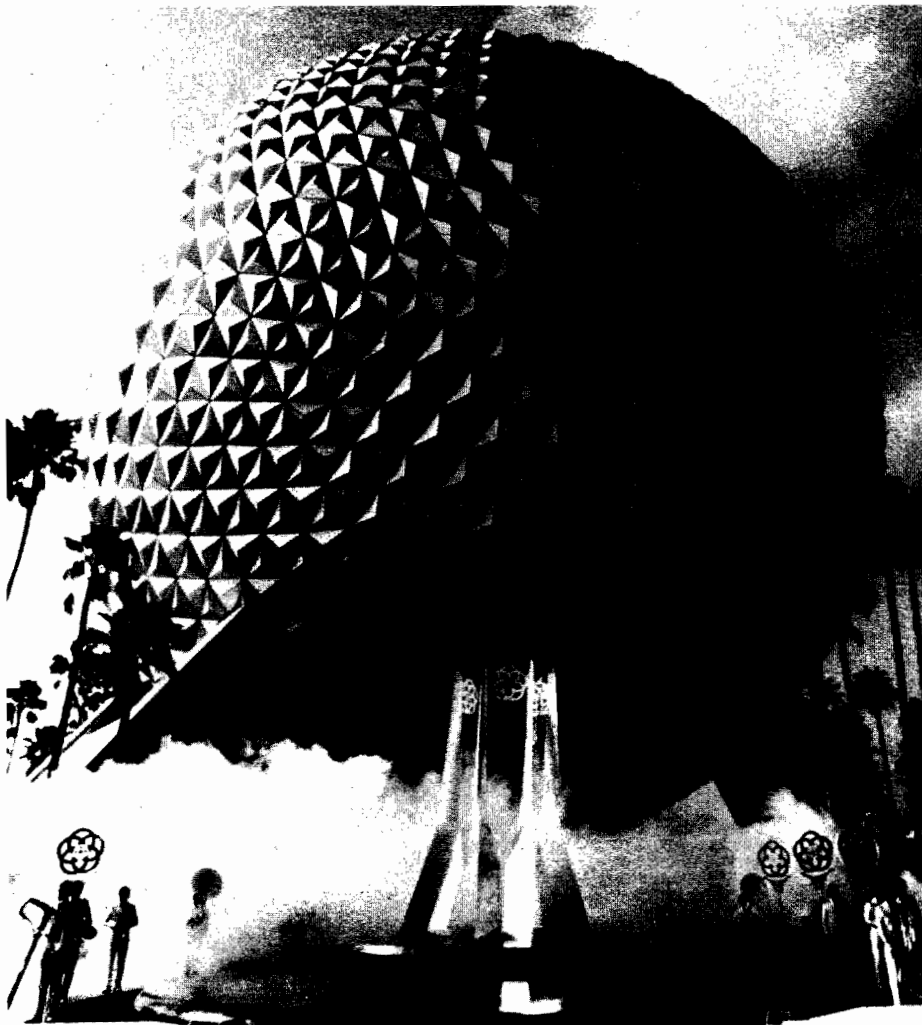
Bank officials from throughout the U.S. are coming to Florida to see how Disney counts its money.

When Disney started working on its most recent venture, a 260-acre site just "down the road" from the Magic Kingdom for the new EPCOT (Experimental Prototype Community of Tomorrow) Centre, the survey team made extensive use of HP 9845 computers. The boundaries and land contours were stored and manipulated electronically before any of the 54 million tons of earth were moved or the 40-acre, man-made lagoon was filled.

The futuristic EPCOT is not just a flashier version of the other amusement parks. Instead, the park, which opened last October at a cost of nearly \$1 billion, is more like a permanent world's fair. Visitors are treated to large-scale demonstrations of state-of-the-art information systems, computer monitoring and control, fiber optics, energy and transportation.

Although HP isn't a sponsoring corporation (companies such as General Motors, Exxon, AT&T and Sperry Univac will pay \$300 million over a 10-year period for the right to display their logos and products in their own pavilions), there are HP products on display.

In GM's World of Motion pavilion, visitors can see a wide variety of HP's



An 18-story geosphere dominates the entrance to Disney's EPCOT Centre. HP products are on display in two of the park's pavilions.

©WALT DISNEY PRODUCTIONS

Personal computer products including an 86 and an 87 computer (the 87 even talks to visitors via an HP-developed voice module), a 75, a 41CV handheld computer and a pair of calculators, a 15 and a 16. There's also a good sampling of HP plotters, printers and instruments linked to the computers.

In the Exxon-sponsored Universe of Energy, a 9845 desktop computer and a 3497 data acquisition and control unit track a chemical process for wide-eyed onlookers.

Even behind the scenes, two HP 1000 computers form the hub of the power distribution centre for EPCOT and Disney World through the Reedy Creek Utilities Company. Reedy Creek is a Disney-owned-and-operated utility that provides energy for the 43-square-mile stretch of Florida swamp and scrub pine that comprises the Disney empire. The computers can monitor for power outages and handle switching between a wide variety of power sources. Disney's utility buys some electric power from outside sources, adds more energy from a massive solar electric array atop the Universe of Energy pavilion, and then adds even more from traditional generators at the complex.

With an expected nine million guests headed for EPCOT, and another 13.2 million visiting the Magic Kingdom this year, the HP 1000s help Reedy Creek meet a sizable energy demand.

To cut energy costs in the years ahead, engineers at Disney are readying a new solid-waste energy conversion (SWEC) plant to turn the park's discarded paper cups and hot dogs into energy. "Here at Disney we have the best garbage in the world," says Willard Smith, manager of engineering and construction for Reedy Creek. "It's high in paper content and low in discarded bicycles and other things you find in municipal garbage."

When fully operational, the plant will consume 100 tons of garbage a day — generating enough steam to cook food for EPCOT, Disney World and two Disney hotels, as well as to heat and air-condition 15 percent of the Disney buildings and provide three hot showers a day for all the hotel guests. Steam will also create additional electricity, which will be added to the utility's total power supply under the control of HP computers.

Leave it to Disney to discover a way to handle all the garbage for SWEC in a discreet manner. A network of underground pipes, arranged in a Christmas-tree pattern, head into a central compactor. A vacuum is maintained in the pipes so that any half-eaten hot dog thrown down a trash chute goes zipping through the pipes at 60 miles per hour toward the compactor.

It's imagination like space-age garbage chutes and TRON warriors that has helped make Disney the innovative company that it is today. Behind the scenes, HP has had a part in that innovation since 1939.

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Kilbirnie, Wellington 3.
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Hewlett-Packard (N.Z.) Ltd.,
5 Owens Road,
Epsom, Auckland
Phone: 687 159

Put a laser printer in your office

Now you can do laser printing at your desk. Two new 12 page-per-minute laser printers, the HP Series 1200 Models 2687A and 2688A, are designed for office and workstation environments.

Using cut-sheet paper in either U.S. size (8½ x 11") or European A4 size (210 x 297mm) the printers produce quality output at 300 dots per inch. At less than 55 dBA, the printers are ideally suited to the office, providing alternatives to daisywheel, impact matrix, thermal or electrostatic printing devices.

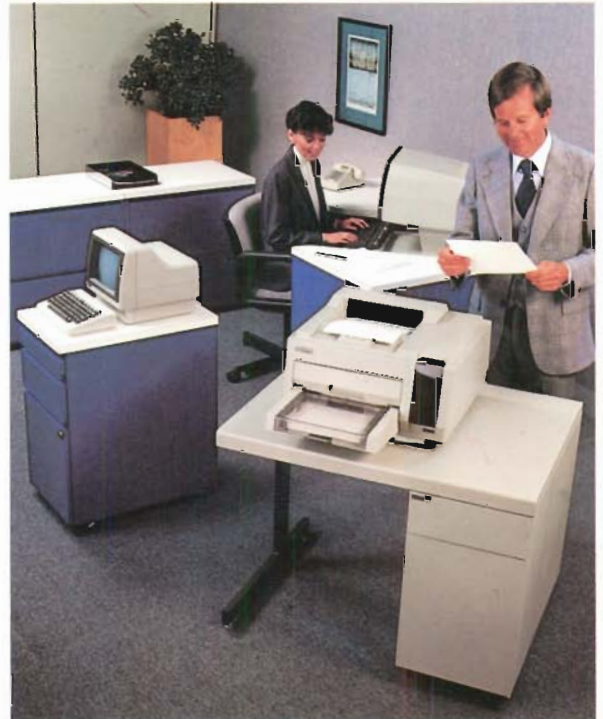
The HP 2687A text printer is a desktop model which lets you select up to four character fonts per printed page. Of these, two are permanent and two are user-changeable. A variety of character fonts is available in cartridge form, including script, courier, letter gothic and pica. Word processing features include horizontal cursor positioning, proportional spacing, automatic underline, and landscape or portrait print orientation for formatting flexibility. HP's word processing software (HPWord and TDP/3000) supports the HP 2687A printer.

The HP 2688A text and graphics printer provides expanded capabilities and features not typically

found in the office printer market. When you use it with HP's word processing software, it becomes a powerful, easy-to-use document generation device capable of printing charts, graphs and diagrams.

A maximum of 32 character fonts can be combined on one page, which enables you to print logos, signatures, headings, and bold and italic print. This new printer can also be used to replace preprinted forms by electronically storing the forms then merging data with them for simultaneous printing. Additional capabilities include page rotation and 2:1 and 4:1 reduction.

Contact your HP Sales Rep for more information.



Consulting service aids office automation

A new consulting service to help implement office computer systems is aimed at assuring your success in automating your office. HP Office-Assist consists of three consulting services: Customer Application Analysis, Implementation Team Training and Project Implementation Assistance.

During the analysis phase, interactive sessions between you and an HP support representative are used to develop objectives and determine the office-systems requirements.

In the team-training phase, your implementation team and management will receive guidance in iden-

tifying the major steps to be taken in project management.

During the implementation process, HP representatives work with your team to review responsibilities, determine the best order for tasks and establish project-review points for the various software modules. Training is included as part of this service, as are frequent assistance visits and a formal implementation review.

Product package

Based on the HP 3000 business computer, the Interactive Office Pac provides the software, training and consulting to computerize any office environment.

A new HP 2628A word processing and graphics workstation, and an HP 7475A 6-pen plotter are included in the pac. Think of it as the nucleus of an office network that eventually can include many workstations.

Designed to serve the organizational information needs of all office personnel, the Interactive Office Pac also includes HP ListKeeper, HP Word, HP DeskManager, HP Easy Chart, HP Menu and HP Office-Assist.

New third party software uses HP 9000 Series 500's HP-UX power

Several new software packages generated by third party suppliers are now available in North America for the HP 9000 Series 500 computers. These programs, described below, take full advantage of the HP 9000 HP-UX operating system's power in microwave circuit design, 3D solids modeling, statistics, database management, word processing, graphics generation and software development.

Supplier:

Compact Software, Inc.
1131 San Antonio Road
Palo Alto, CA 94303
(415) 966-8440

SUPER-COMPACT

Provides an entire range of circuit analysis and optimization features.

AUTOART

An interactive, 2D drafting program for microwave circuits.

Supplier:

Catronix Corp.
151 6th St. NW, Suite 039
Atlanta, GA 30313
(404) 892-7778

CAT SOFT

A 2D and 3D solid modeling CAD/CAM system.

Supplier:

McMaster University
1200 Main St., West
Hamilton, Ontario
Canada L8N3Z5
(416) 525-9140 Ext. 2436

BDMP

A 41-program statistical library covering data description, regression analysis, frequency table analysis, analysis of variance, nonparametric statistics, multivariate analysis, time series analysis, life tables and survival analysis, including plots and histograms.

Supplier:

Rhodnius, Inc.
10 St. Mary Street
Toronto, Ontario
Canada M4Y1P9
(416) 922-1743

MISTRESS

A pure relational database management system, written in C on HP-UX.

Supplier:

SIR, Inc.
820 Davis St.
Evanston, IL 60204
(312) 475-2314

SIR/DBMS

A comprehensive database management system designed for data analysts and researchers.

Supplier:

Integrated Software Systems Corp.
4186 Sorrento Valley Blvd.
San Diego, CA 92121
(714) 452-0170

Tell-A-GRAF

This software generates charts and graphs (line, bar, pie, etc.) on a variety of media.

Supplier:

Hewlett-Packard
(local sales office)

MUSE

This technical word processor from MARC Software International, Inc., provides office-grade word processing for the scientist and engineer.

The following software packages have single and multi-user versions. You can use them on the HP 9000 Series 500 Models 20, 30 and 40 with HP-UX operating system.

SOFTOOL FPE* FORTRAN Programming Environment.

SOFTOOL CCC* Change and Configuration Control Environment.

SOFTOOL FPE & CCC* FORTRAN Programming Environment and Change and Configuration Control Environment.

SOFTOOL FPE Subset* FORTRAN Programming Environment Subset.

SOFTOOL CC* Change Control Environment.

SOFTOOL FPE Subset & CC* FORTRAN Programming Environment Subset and Change Control.

SOFTOOL VAX FORTRAN Transport* for VAX to HP 9000 transportation (to be used with the FPE* or the FPE Subset)*

* These are licensed products from Softool Corporation. SOFTOOL is a trademark of Softool Corporation. Support is available through HP regional PICS centers.

Personal-information-handling software for the HP 3000

HPListKeeper is a simple, elegant tool that allows you to manage your own data without the aid of programmers.

Because it is easy to learn and use, HPListKeeper puts the flexibility and power of computerized information management in the hands of the people who need the information. This saves the time and expense of programming experts handling routine requests. Another major advantage is instant access to the information you need right now to make an informed decision.

Like sophisticated database products, HPListKeeper allows you to create, edit, find, sort and print exactly the information you need for the task at hand. HPListKeeper is easy to learn and easy to use:

- In only 30 minutes, an inexperienced computer user can be creating and manipulating useful lists.
- Most users will rarely use the instruction manual.

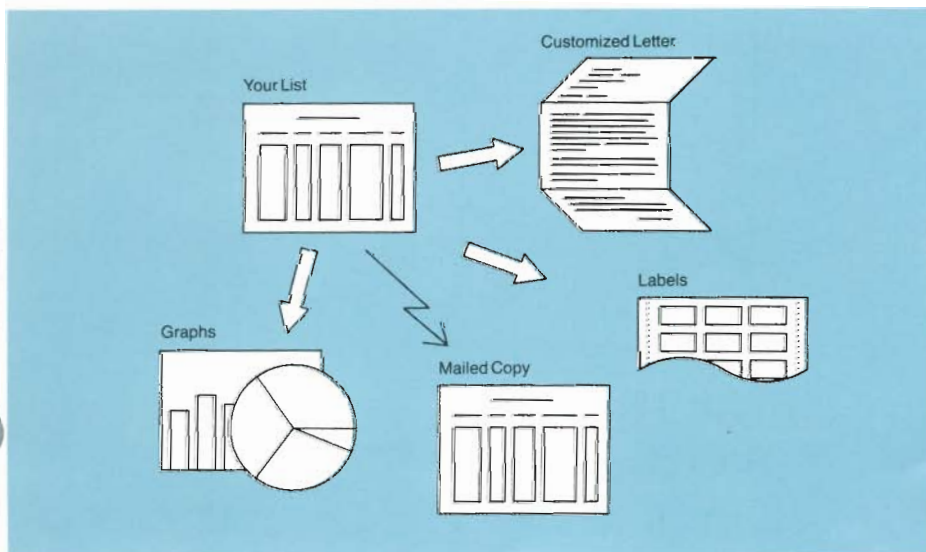
The product uses menus and screen-labeled function keys so there are no commands to remember. On-line introduction, demonstrations, examples and help features make the manual an accessory rather than a necessity.

HPListKeeper adds the simplicity and comfort normally associated with personal computer tools to the HP 3000's ability to share programs, data and peripherals. And it works with other HP office productivity tools. You can send lists via electronic mail, make graphs from data stored in the lists and use them to create customized letters with HPWord software.

- Information is stored in a list of up to 99,999 entries (records), organized in up to 12 categories (fields). Each record can be as long as 992 characters.
- You can search a list for specific information or ranges of information. You can sort your lists using up to three fields.
- You can print any fields desired in any order, so one list could be used for different purposes. HPListKeeper prints address labels too.
- HPListKeeper adds to the Interactive Office concept of on-line information management: the information you need, when you need it.

In Brief

- 35mm slide capability, which has been available for the standalone HP 2700 color graphics workstation, is now available on the HP 3000 business computer. You can save time and money by creating artist-quality graphics and 35mm slides with the HP 3000 Business Graphics Package and a DICOMED film recorder. The package consists of HPEasyChart, DSG/3000 and HPDraw; you may purchase them separately.
- The boards of directors of the HP 3000 and HP 1000 International Users Groups have approved a plan to merge their associations. If approved by the members of the HP 3000 IUG, the merger will take place on January 1, 1984. A name for the new organization will be announced in December. For more information, contact the HP 3000 International Users Group, 289 S. San Antonio Road, Los Altos, CA 94022, USA.
- New software, called HPSpell, can check a page of text for misspellings in two to seven seconds. Based upon Houghton Mifflin, it compares words against both a master and a user-customized dictionary and highlights incorrect words. HPSpell also suggests homonyms or similarly spelled words that you might have intended. You can use this software with HPWord, HPSlate, TDP/3000 or any ASCII file. You have the option of American or British English.



All prices quoted herein are \$US list and are subject to change without notice.



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Australia

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Computer Advances is published every two months for Hewlett-Packard computer customers to keep you informed of new HP products and services and help you get more out of your investment in HP equipment.

For further information on any of the products and services discussed herein, please contact your local HP Sales Office.

Note: Not all HP computer products are sold and supported in countries other than the US. Please check with your local HP Sales Office.

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