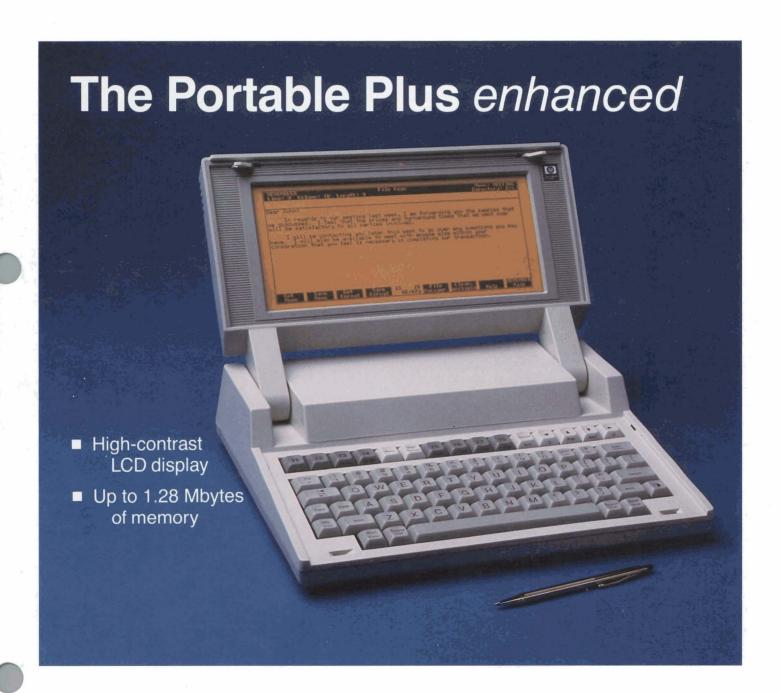
Information Systems & Manufacturing News

Information for HP sales reps selling MIS, office automation, and manufacturing solutions

April 1, 1986



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Formerly Computer News

Editor

Roman Kichorowsky

Assistant Editors
Tracy Wester
Darleen Brettes

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Force, (8) Manager's Name, and (9) Manager's Employee No.



On the Cover

The enhanced Portable PLUS offers a high-contrast LCD display that provides significantly g. eater contrast and more than twice the viewing angle of the previous models. In addition, internal memory has been increased to either 256 Kbytes or 512 Kbytes, which means the new Portable PLUS can be configured to an incredible 1.28 Mbytes. See story on page 24.



On the Back Cover

HP now offers unattended backup on ¼-inch cartridge tape with the HP 35401A autochanger tape subsystem — a new high-capacity tape drive from Computer Peripherals Bristol. See story on page 43.

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MO MK	Federal Marketing Operation Direct Marketing Division	
VCM	Value-Added Channel Management	
en.	Customer Support	
SD RSD	Application Support Division Product Support Division	
3D	Product Support Division Finance and Remarketing Division	
VEORM	Corporate Marketing Communications ATION SYSTEMS & NETWORKS SECTOR	
	tion Systems Group (ISG)	
CSY	Computer Systems Division	
OSP OSD	OFFICE SYSTEMS PROGRAM Office Systems Division	
)PD	Office Productivity Division	
SD IGD	Personal Software Division Röblingen General Systems Division	
- CO	Böblingen General Systems Division Guadalajara Computer Operation	
	1 Computer Group (PCG)	
TD IPPR	Roseville Terminals Division Puerto Rico Operation	
CD	Portable Computer Division	
CCO SPCD	Brazil Operation Handheld Computer & Calculator Operation	
SPCD OD	Grenoble Personal Computer Division Personal Office Computer Division	
	Microcomputadoras HP	
CS CDO	Singapore Operation Personal Computer Distribution Operation	
	rals Group (PG)	
ED.	Greeley Division	
CPB STO	Computer Peripherals Bristol Division Greeley Tape Operation	
MD	Disc Memory Division	
301 /CD	Boise Division Vancouver Division	
CO	Ink-Jet Components Operation	
DD PO	San Diego Division Barcelona Peripherals Operation	
_	tion Networks Group (ING)	
JNO SND	Colorado Networks Operation	
SIND	Grenoble Networks Division Roseville Networks Division	
ND	Information Networks Division	
Informa	tion Technology Group (ITG)	
FID HO SO	Fort Collins IC Division Information Hardware Operation	
SO -SO	Information Software Operation Entry Systems Operation	
	ted Circuit Group (ICG)	
DD	Cupertino IC Division	
90 VID	Northwest IC Division Singapore IC Operation	
ĈĎ	Integrated Circuits Division	
MANUF	ACTURING, MEDICAL & ANALYTICAL SYSTEMS SE	CTOR
	cturing Systems Group (MSG)	
DSD AMSO	Data Systems Division Advanced Manufacturing Systems Operation	
MPD JD	Manufacturing Productivity Division	
PAO	Loveland Instrument Division Panacom Automation Operation	
MTD MSO	Manufacturing Test Division Lyon Manufacturing Systems Operation	
	cal Group	
AVD	Avondale Division	
SID MAD	Scientific Instruments Division Waldbronn Division	
HPG	HP Genenchem	
	Group (MED)	
AND BMD	Andover Division Böblingen Medical Division	
MCM WAL	McMimmville Division Waltham Division	
WAL VISC	Waitnam Division Medical Supplies Center	
Согроп	ate Manufacturing	
PRCD	Printed Circuit Division	
	NENTS, MEASUREMENT & DESIGN SECTOR	
Microw SPD	ave and Communications Group (MCG) Stanford Park Division	
MMD	Network Measurements Division	
SAD SPK	Signal Analysis Division Spokane Division	
CTD	Colorado Telecom Division	
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NUD SCD	New Jersey Division Santa Clara Division	
BID	Böhlingen Instrument Division	
YID YCO	YHP Instrument Division YHP Computer Operation	
COL	Colorado Springs Division	
SL Desion	Instrument Systems Labs Systems Group (DSG)	
_	WORKSTATION/TECHNICAL COMPUTING	
FSD	Fort Collins Systems Division	
CWO BCD	Corvailis Workstation Operation Böblingen Computer Division	
	ELECTRICAL ENGINEERING	
LSD LDO	Logic Systems Division Logic Design Operation	
FEO .	Fort Collins Engineering Operation Salt Lake City Operation	
SLCO	Salt Lake City Operation MECHANICAL ENGINEERING	
LSID	Lake Stevens Instrument Division	
BEO TSC	Böblingen Engineering Operation Technical Software Center	
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MSD	Microwave Semiconductor Division	
OED OCD	Optoelectronics Division Optical Communication Division	1.3
SAO	Southeast Asia Operation	1.4
	ate Engineering	

HP Computer Museum www.hpmuseum.net

For research and education purposes only.

"Mat if...

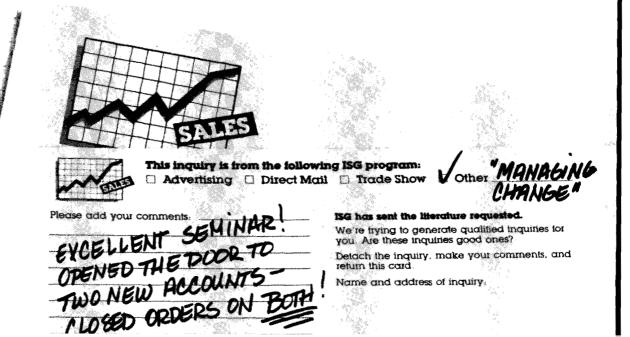
we had an Office Seminar Program that generated REAL leads?"

This Seminar Program Does

HP's new Office Systems seminars offer you more than just presentation materials. The seminar program, entitled "Managing Change," will generate highly qualified leads. Prospective customers will attend pilot seminars offered in April in six cities throughout the United States. The leads generated from those participants attending the seminars should top your list of

prospects for Personal Productivity Center product orders in FY '86.

The pilot seminar program, a series of six seminars, represents the final step in a long development cycle before delivering a complete Sales Seminar Kit to each of your local sales offices. This kit will provide you with all the necessary tools to successfully run your own version of the "Managing Change" seminar.



Target: The Office

一点人们都看到我们 人名马

The attendees at these seminars are highly qualified leads who include Data Processing/Management Information Systems (DP/MIS) professional managers, company owners and general managers responsible for information systems planning and implementation.

The seminars will look at managing change from a global perspective. The keynote speakers will specifically address how change has come about in today's offices and factories. By analyzing various organizations and their successful or unsuccessful management of change, the speakers will set the stage for customers looking to Hewlett-Packard for all their office systems needs.

In the seminars, the speakers will take a look at the history and development of office automation. The speakers will show why Hewlett-Packard is the supplier of choice based on its financial credibility, long-term viability as a business computer solutions company, product track record, IBM compatibility and networking capabilities.

Tailored for You

The Seminar Sales Kits will be distributed to all the sales offices in June. These kits will give you a complete set of sales tools so that you can tailor your presentations to a large seminar audience or to a single customer audience in a one-to-one sales situation.

This Seminar Sales Kit is Different

We'll be giving you more than just overhead slides. We'll be providing you with a complete seminar presentation kit that you can customize to your Office Systems sales pitch. In addition to presentation slides, this Seminar Sales Kit will provide:

Audio Cassette Training Tape

This tape offers you tips on how to maximize your effectiveness in delivering an Office Systems Seminar presentation.

Road Map

This Road Map gives you a structure and guidelines for using the sales kit. It reviews various scenarios and suggests what, when and how to use specific elements of the kit.

Videotape

This videotape is about 20 minutes long and reviews at least four case studies showing companies confronted with the need to change and their trials and tribulations as they attempt to implement office systems at their sites.

Direct Marketing Blueprint

Direct Mail Copy, Telemarketing Script and Ad Copy and "How to Use" Tips

You Know What Works with Your Customers

You know your customers. Some will come to an OA seminar and place an order that day. Some will come to an OA seminar and collect literature on your products and want a follow-up sales call in two weeks. Some don't want to come to any seminars whatsoever, but would like you to come to their company and give them an individual presentation. And, we've planned for all of these alternatives.

Follow HP's Lead

You're a key player in the success of HP's position in the Office Systems marketplace. We'll send you highly qualified leads in April. And, we'll give you all the tools you need with the Seminar Sales Kit in June to get PPC orders in FY '86. That's why when we ask the question, "What if . . . we had an Office Seminar Program that generated REAL leads?" we feel confident in responding, "This Seminar Program Does!''

Seminar Schedule

North Hollywood
Dallas
San Antonio
Chicago
New York City
Baltimore

Tuesday Thursday Friday Tuesday Thursday Friday

April 8th April 10th April 11th April 15th April 18th April 18th



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GENERAL

Assigned Executive Program sales contest

Bill Richion/US Field Operations

As you know, 12 of our leading executives participate as members of our Assigned Executive Program. Each member of this august group is responsible for three accounts that are very significant to Hewlett-Packard. One of the executives proposed that we have a sales contest for this group in order to promote a little friendly competition, have some fun, and stimulate sales at these accounts for FY86. This was quickly and enthusiastically endorsed by all of the other participants including the field sales managers who are responsible for these accounts. Consequently, there will be 48 participants in this contest with 12 teams of 4 members each. The contest will run until the end of the fiscal year, October 31, 1986, and will be retroactive to November 1, 1985. It will be positioned as a horse race. The six teams with the most points will be the winners and, of course, the ones with the least points will be the losers.

The number of points that are scored will involve two factors: growth and quota achievement. For growth we will use a simple percentage of growth rate of 1986 over 1985. For quota we will use the quota percentage achieved minus 100 for each account. The team total then will be the sum of these six factors. For example, let's assume that one of the executives three accounts sales performances are 90, 105, and 110 percent of quota with growth rates of 10, 15, and 20 percent respectively. Adding up the quota figures gives a score of 5 and the growth rate gives a score of 45 for a grand total of 50. We will publish the positions of the horse race on a monthly basis so that we can all have the pleasure of tracking this contest.

Of course each contest should have a pay off. The pay off in this contest will be that the six winning teams will be served dinner by the six losing teams. In addition, the losing teams will be responsible for the evening's entertainment: skits, singing, and so on. We do not want the losers to go hungry, so we will feed them before the festivities begin. Naturally, they will dine on turkey sandwiches.

The participants in the contest are as follows:

Executive	Account	Field Manager
J. Young	AT&T GM P&G	J. Dicso A. Criss F. Bay
D. Morton	GE RCA Raytheon	M. Cohn T. Papson D. Bogues
B. Terry	General Dynamics Rockwell Grumman	S. Odeh R. Baker N. Buonamico
J. Doyle	DuPont State Farm 3M	D. Brennan S. Wieber T. Obinger
D. Alberding	IBM *ITT	J. Zorn J. Ciraulo/ J.J. Neale (Brussels Team Leader)
	*Shell	J. Friedman/ M. Delaney (UK Team Leader)
J. Arthur	E-Systems AMP Pepsi	B. Smith M. Ellinger M. Kolansky
A. Oliverio ·	Ford Texas Instruments Exxon	J. Ditulio J. Cooper J. Neukom
D. Chance	*Northern Telecom	L. Nicholson/ L. Kwicinski (Canada Team Leader)
	Westinghouse	K. Roller
B. Parzybok	Lockheed United Tech Hughes	S. Kagan E. McKenney B. Hitchcock
L. Platt	Boeing McDonnell-Douglas Monsanto	P. McNiff D. Gerberding J. Johnson
D. Anderson	GTE Motorola TRW	J. McLellan P. Eder C. Fullman
D. Spreng	Eli-Lilly Knight-Ridder Federal Mogul	K. Obenchain R. Martinez D. Broa

^{*}Non US headquartered accounts

We will think up some appropriate name for the teams in the horse race. Stay tuned for the exciting results of this gala event.

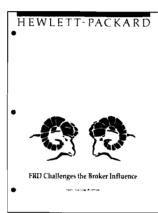
New brochures to help you sell remarketed products

Bill Brennan/FRD

For North America only

Finance and Remarketing Division (FRD) has shipped two new brochures to each sales office, FRD Challenges The Broker Influence and Value Through Refurbishment.





FRD Challenges is a sales training brochure that includes FRD's Four Point Strategy for competing against used equipment dealers. The information will help you position HP factory refurbished equipment against brokers' used products.

Value Through Refurbishment is a customer brochure with information about the refurbishment process at HP and the key points customers should know about the HP remarketed program. This is targeted to any customer who has ever considered purchasing a lower-cost-alternative computing solution. Additional copies of this brochure can be ordered from the Literature Distribution Center as P/N 5954-6805.

For more information on remarketed products, call your FRD Market Development contact.

Investment Tax Credit and remarketed equipment

Ilene Zusi/FRD

For North America only

Questions have once again arisen regarding the availability of Investment Tax Credit (ITC) on remarketed equipment. The following is a restatement of the ITC guidelines for remarketed equipment:

- A limited form of Investment Tax Credit is available to customers who purchase reconditioned or remarketed equipment. The total dollar amount of all refurbished equipment eligible for ITC in any one tax year is \$125,000 per taxpayer.
- ITC is not available on remarketed equipment that is leased or rented.
- Since equipment financed on an installment sales contract is actually purchased by the customer, ITC is applicable.

For ITC purposes, equipment may be considered "new" if (1) title has never passed from HP and if (2) HP has never capitalized the equipment, i.e. the equipment has always been treated by HP as inventory and not as a capital asset.

Be careful with respect to equipment that was originally sold or leased to a customer and is subsequently returned to HP because of credit or customer satisfaction problems. If such equipment is taken into demo consignment, it is considered as used because either title passed to the customer or it was capitalized by HP. Remember, once a piece of equipment has been sold or capitalized, it may never be considered new again for ITC purposes.

Please contact your Sales Finance Representative should you have any further questions.

VALUE-ADDED CHANNELS

Versatile presentation portfolio aids in recruiting value-added businesses

E. Mark Jones/CVCM



A versatile, new recruitment portfolio now allows you to tailor materials to match your presentation for potential value-added businesses. The portfolio, with its inside pocket, can be organized with any of the accompanying program inserts as well as appropriate product, service, or contract information.

The accompanying inserts currently available cover

programs offered for our OEM, VAR, PC OEM, software-supplier, and systems-integrator channels. Additional inserts for consultant, distributor, and dealer programs will be available in the coming months.

Now you have a consistent set of presentation materials covering the broad range of value-added businesses that are becoming so important to HP's success.

When ordering copies of the portfolio from the Literature Distribution Center you must order at least one of the available inserts with each copy of the portfolio.

Ordering information

Item	P/N	Description
Portfolio	5954-6343	HP's Programs for Value- Added Businesses
Program Inserts	5954-6344	The Logical Choice for Value Added Resellers
	5954-6345	The Logical Choice for OEMs
	5954-6346	HP's program for Personal Computer OEMs
	5954-6347	Better business opportunities for System Integrators
	5954-6348	The HP PLUS program for ISVs

Join the Consultant Network now

Patrick Apfel/CVCM

The majority of the Fortune 1000 industrial and service companies hire consultants (Big Eight accounting firms, management consulting firms or independents) to help them plan or implement their DP/MIS strategies. These consultants often recommend vendors that have a local contact they can rely on during Request For Proposal situations (RFPs). Therefore, having a solid relationship with consultants can often sway a big deal in your favor.

Joining the Consultant Network can help you establish relationships with consultants in several ways. First, we will provide you with the names of other people in the field or in the product groups who work closely with consultants. This will allow you to then use those HP contacts as door openers to new consultants, and as a way to leverage existing consulting events. Secondly, you will be updated on the upcoming components of the HP Consultants Program such as magazines, brochures and training kits.

So, if you want to be more effective with consultants join the Consultant Network now and send us your name, position, sales office, phone number, and the list of consulting firms you work with, attention: Julie Whalen, Consultants Program, Mail Stop 20BN, Hewlett-Packard, 3000 Hanover St., Palo Alto, CA 94304; Telephone 415-857-7949.

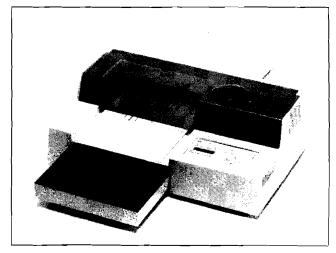
SALES SUCCESSES

Sales Successes reports on successful sales strategies and HP solution installations. Information Systems & Manufacturing News welcomes contributions for this column from the field and divisions alike. Articles should be brief, informative, and contain the following information: (1) A description of the customer and the problem, (2) the competition's answer to the problem, (3) HP's solution and why the customer chose HP, and (4) who to call for more information about the sale. Also welcome would be some information about the amount of the sale and the solution's implementation date.

HP 7550A opens the door at Smithco Engineering

Stuart Schaffer/SDD

Last year, Smithco Engineering in Tulsa, Oklahoma, purchased an HP 7550A as a CAD output device for its Data General minicomputer. As a result of this initial purchase, within six months Smithco decided to replace their entire Data General system with HP equipment. The company purchased over \$150,000 in computer products leveraged from the original plotter success.



HP 7550A was well received at Smithco Engineering.

Smithco Engineering designs and manufactures heat exchangers. In May of 1985, they were writing FORTRAN programs which graphically depicted the designs of their products and were plotting these on a

Houston Instruments D-size plotter. Jim Harris, Southern sales region technical computer sales rep, learned Smithco was experiencing problems with their Houston Instruments plotter and was looking for a more reliable, automatic sheet-feed plotter to replace it. Although the HP 7550A would only plot up to B-size designs, the customer was very impressed with its speed. Within a single afternoon, Jim and a local systems engineer were able to integrate the HP 7550A into Smithco's system.

Within two months after the HP 7550A purchase, Smithco replaced their custom-designed software with an HP EGS system. Within four months they replaced their entire Data General system with an HP 9000 Series 500 computer, two 404-Mbyte disc drives, and 16 terminals. In summary, the company purchased over \$150,000 in computer equipment within six months of Jim's initial sales call. As Jim told us, "The only reason we were initially considered was the outstanding performance they experienced with your HP 7550A plotter . . . thanks for the great products!"

Congratulations to Jim Harris, Tulsa technical computer sales rep, for being the next recipient of a free San Diego Division (SDD) flight/gym bag. San Diego Division continues to look for customer success stories for our plotters. If your story is chosen for publication in *Information Systems & Manufacturing News* or *Measurement & Design Systems News*, we'll send you a flight/gym bag with the HP logo on one side and the SDD logo on the other.

CUSTOMER SUPPORT

AEO consulting product structure improvements

Mickey Friedman/ASD

Improvements have been made to the product structure for Application Engineering Organization (AEO) consulting effective April 1, 1986. Here is a summary of the changes:

- All consulting will be sold by the hour; the daily rate has been eliminated (US only). Europe and Intercon will continue to have the daily rate.
- There is only one product number for each of the three designated levels of consulting available (PSR, SE, and consulting or specialist). This replaces the 60 different numbers that could previously have been ordered.

- There is now a consistent rate throughout the world for after hours consulting. For off-hours work during the week, there is a 40 percent premium added to the normal hourly rate. On weekends and holidays, the uplift is 75 percent.
- Travel charges are now an official option to the main products on the Corporate Price List; customers will see the travel charges as part of the consulting quote.

The benefits

- Simplification of T&M consulting product structure.
- Easy ordering procedures.
- No more confusion about what a day of consulting is.
- Consistent after-hours T&M charges.

The specifics

You now only need to remember three numbers. These are the numbers you will use 95 percent of the time. The remaining product numbers listed below for T&M are used in the Project Center and for any off-hours consulting offered. The three numbers are:

P/N	Description	US list price
51413A 51414A	Associate SE Assistance SE Assistance	\$ 80/hour 100/hour
51415A	Specialist/Consultant Assistance	125/hour

Off-hours consulting on weekdays carries an additional 40 percent uplift. Weekend and holiday work carries a 75 percent uplift. Here is a summary of all the applicable product numbers and their prices.

Field District (ID 44)	Regular hours	After hours weekday	Weekends or holidays
Associate SE	P/N 51413A	P/N 51419A	P/N 51422A
	\$ 80/hr.	\$112/hr.	\$140/hr.
SE	P/N 51414A	P/N 51420A	P/N 51423A
	\$100/hr.	\$140/hr.	\$175/hr.
Specialist	P/N 51415A	P/N 51421A	P/N 51424A
	\$125/hr.	\$170/hr.	\$219/hr.

Project Center (ID 46)	Regular hours	After hours weekday	Weekends or holidays
Associate SE	P/N 35135G	P/N 35135H	P/N 35135K
	\$ 80/hr.	\$112/hr.	\$140/hr.
SE	P/N 35135C	P/N 35135I	P/N 35135L
	\$100/hr.	\$140/hr.	\$175/hr.
Specialist	P/N 35135D	P/N 35135J	P/N 35135M
	\$125/hr.	\$170/hr.	\$219/hr.

In Europe and Intercon only, the following daily rates apply:

P/N	Description	US list price
51416A	Associate SE Daily Rate	\$ 675
51417A	SE Daily Rate	825
51418A	Specialist Daily Rate	1,000

Travel charges

All T&M Consulting now has travel listed as a mandatory option to the product number on the Corporate Price List. Hence, the customer will be charged for the number of hours the SE worked and for travel depending on the zone they are in.

Option	Description	Charge	Distance (miles)
101	Zone 1 Travel	\$120	0 - 25
102	Zone 2 Travel	210	25 - 50
103	Zone 3 Travel	280	50 - 100
104	Zone 4 Travel	440	100 - 200
105	Beyond Zone 4	Quote	over 200

Note that travel charges are consistent with the published CEO rate and were increased February 1, 1986.

Example: An SE goes to the customer's site 25 miles from the office and delivers six hours of consulting.

6 Units of 51414A	@ \$100
1 Unit of 51414A Opt. 102	@ \$225 (50 miles roundtrip - zone 2)
Total	\$825

The improvements being made are a positive move to simplify and add consistency to the AEO T&M Consulting program. The results will be equal treatment for all customers and a business that will be easier to manage effectively by the AEO.

Self-paced service training series now available

Wei Huang/PRSD

There are now 48 self-paced service training guides and videos available to HP customers who are interested in self-maintenance. The self-paced training packages provide detailed service information and/or techniques on subjects ranging from the HP Vectra PC to the HP ThinkJet printer to computer printer fundamentals.

Each self-paced training package can be purchased via the local HP sales office or directly from the Corporate Parts

Sales & Customer News

Center in Mountain View, California. The price is \$300 per service package and \$350 per video package.

Service package

P/N	Description	P/N	Description
12025A + 49A-0	12025A I/O	7550A + 49A-00	HP 7550 plotter
	extender	7945A + 49A-00	HP 794X disc
2225D + 49B-00	HP 2225		drive
	Thinklet	82902M + 49A-0	HP 82901/02
2392A + 49A-00	HP 2392	0_000.	disc drive
200211 1011 00	terminal	82904A + 49A-0	HP 82904A bus
2393A + 49A-00	HP 2393A		extender
200011 157 00	computer	82905A + 49A-0	HP 82905
2603A + 49A-00	HP 2603 printer	02000011110110	printer
2620A + 49A-00	HP 2627A	82906A + 49A-0	HP 82906
202011 1011 00	terminal	0230011 4311 0	printer
2648A + 49A-00	HP 264X	85B + 49A-0000	HP 85A/B
201011 4011 00	terminal	COD 1 4571 0000	computer
2932A + 49A-00	HP 293X	86B + 49A-0000	HP 86A/B
233211 4311 00	printer	000 1 4311 0000	computer
45500A + 49A-0	HP 125	9020A + 49A-00	HP 9020A
45500M 7 45M°0	computer	3020A + 43A-00	computer
45600A + 49A-0	HP 120	9114A + 49A-00	HP 9114A disc
43000A T 43A-0		3114A T 43A-00	drive
45610A + 49A-0	computer HP 150	9121D + 49A-00	HP 9121S/D
43010A ± 49A-0	computer	9121D + 49A-00	disc drive
45610B + 49A-0	HP 150 I	9134A + 49A-00	HP 9133/34 disc
43010D + 49A-0		9154A + 49A-00	drive
45641A + 49A-0	computer HP 150	9144A + 49A-00	HP 9144A disc
43041A + 49A-0	emulator	9144A + 49A-00	drive
45644A + 49A-0	Ether Link	9153A + 49A-00	HP 9153A/54A
45710A + 49A-0	HP 110	9155A + 49A-00	
45710A ± 49A-0		01544 : 404 00	disc drive
457114 : 40D 0	computer	9154A + 49A-00	HP 9154A disc
45711A + 49B-0	HP 110	00074 : 400 00	drive
450404 404 0	computer	9807A + 49C-00	HP 9807
45849A + 49A-0	HP 150 II	00704 . 404 00	computer
	computer	9816A + 49A-00	HP 9816A
7225A + 49A-00	HP 7225 plotter		computer
72425A + 49A-0	HP 72425	9836C + 49A-00	HP 9826/36
	computer		computer
7440A + 49A-00	HP 7440A	9872A + 49A-00	HP 9872 plotter
	plotter	9888A + 49A-00	HP 9888A I/O
7470A + 49A-00	HP 7470A		extender
	plotter	9915A + 49A-00	HP 9915A
7475A + 49A-00	HP 7475 plotter		computer

Video package

P/N	Description	Standard	Format
99072HV + 49A-	Disc mass storage prestudy	NTSC	VHS
99072HW + 49A-	Disc mass storage prestudy	NTSC	Beta
99072HZ + 49A-	Disc mass storage prestudy	NTSC	Umatic
99072HC + 49A-	Disc mass storage prestudy	PAL	VHS
99072HV + 49A-	Disc mass storage prestudy	NTSC	VHS
99073HV + 49A-	Computer printer prestudy	NTSC	VHS
99073HW + 49A-	Computer printer prestudy	NTSC	Beta
99073HZ + 49A-	Computer printer prestudy	NTSC	Umatic
99074HA + 49A-	Mag tape unit prestudy	NTSC	VHS
99074HB + 49A-	Mag tape unit prestudy	NTSC	Beta
99074HD+49A-	Mag tape unit prestudy	NTSC	Umatic
99074HD + 49A-	Mag tape unit prestudy	NTSC	Umatic

SPECIAL OFFERS

Promotion programs and special offers announced in Information Systems & Manufacturing News may not be valid outside of the US. Before promotions are valid in other countries, they must be announced by the Country Marketing Organization.

IBM/Compaq trade-in update: new option in dealer channel

Terri Brown/POD

In response to field and customer requests, an option for dealers has been added to the existing trade-in promotion (see the Special Offers section of the February 1 and March 1, 1986, issues of *Information Systems & Manufacturing News* for original promotion details). Dealers now have the option of selling an HP Vectra PC with one HP disc drive, instead of two, while still meeting the minimum Vectra PC configuration requirement. HP's rebate on the IBM/Compaq personal computers returned under this option will be decreased by \$150. Thus, the rebate for a dual floppy personal computer will be \$550 and \$850 for a hard-disc personal computer.

In order to utilize this option, dealers must provide their Vectra PC customers with the new rebate form. The new form was sent to SF12 and our dealers in the March 17 issue of *In Touch Update*. If you or your dealer need additional forms, they can be ordered from the Literature Distribution Center as P/N 5954-7211D.

The procedure for the dealer and the customer is identical under either option. The dealer provides the appropriate rebate form to the customer at the time of the Vectra PC purchase. The customer then fills out the form and returns it to Finance & Remarketing Division (FRD) with proof of purchase (copy of the invoice) and the used IBM/Compaq personal computer. After FRD receives the used personal computer and verifies that it meets all stated requirements, a rebate check is issued directly to the customer.

This option is in addition to the original promotion and will run concurrently until June 30, 1986. Other than the changes mentioned above, all other conditions and requirements remain the same. Please be aware that in either case, the HP Hard Disc Controller (P/N 454815A) is a required component of the Vectra PC when a hard disc is the second disc purchased.

For more information or specific account questions, call the Sales Response Center or your FRD Market Development contact.

"Engineer's Delight": a Megabytes Plus solution for technical systems

Mike Gordon/DMD

Have you ever had a customer who is tired of waiting for his engineering computing system to finish? Wished they had more storage just after buying their system but couldn't afford an additional disc drive? Complained about how long it takes to get data in and out of their system by using a tape drive? Has worked for a long time on their project only to find their data destroyed by someone else on the system? No more with the new "Engineer's Delight" package from Disc Memory Division (DMD) and Computer Peripherals Bristol (CPB).

The Engineer's Delight mass-storage solution should be ideal for most mid-range engineering workstation systems in the CAD/CAE/CIM marketplace. This package includes the HP 7914CT (a 132-Mbyte disc drive with an integrated HP 9144A tape cartridge) and an HP 7907A 41-Mbyte fixed/removable disc drive. This package will make any mid-range customer excited. This offer reduces the mass-storage solution cost by \$7,000.

Some of the key features of this package are:

 You get two high-performance disc drives to make your system run faster. The HP 7914 makes a great high-performance system disc, and an HP 7907A with its removable cartridge adds greatly to the system functionality, plus adding more performance by having two discs on a system.

- The HP 7907A and its removable cartridge allows your customers to load and unload 20-Mbytes of data on their system in less than two minutes.
 - Secure information by locking up the 20-Mbyte cartridge.
 - Unlimited system storage in 20-Mbyte blocks.
 - Extra storage capacity for less than \$10/Mbyte when adding additional disc cartridges.
 - No waiting on tape loads and unloads.
- Quarter-inch tape cartridge for distribution and inexpensive tape backups.

The Engineer's Delight mass storage solution was featured during February and March on Lake Stevens Division's new mechanical engineering Series 90 modal analysis system, using the HP 9000 Series 300 computer and their HP 3565S signal processing system.

This program is a worldwide promotion which is being offered from March 1 through August 31, 1986. Ordering instructions were included in the March 1 mailing of the Megabytes Plus promotional package.

If you have any questions, please call DMD Sales Support at 208-323-DISC or 208-323-3472.

(hp

GENERAL

A handbook for novice users of MPE

Andrew Emery/ITG



When HP introduced the HP 3000 Series 37, it raised a problem: if you only spend small bucks for a computer, you resent spending big bucks to send folks to class to learn to use it. No one had written an MPE manual that was simple, unthreatening, interactive, and helpful

to real beginners — the kind of people who might just buy a Series 37. There was no documentation for this new market.

HP 3000 Guide for the New User was meant to be such a book: MPE for beginners. This well-illustrated book leads a novice through a first hands-on session on an HP 3000 computer terminal. It describes system hardware, then shows the user things like the accounts, the keyboard, word processing, system messages, files and their use, sorting, copying, and other supplied software except programming languages. Interactive all the way, it helps assure learning for a non-technical audience.

It features the absence of computer jargon, a self-paced format, the use of "keycaps" so the user will know what to type, an extensive and non-jargony index, and a "skeleton key" — a generic logon so novices can do their learning and practicing off in a special teaching account out of harm's way.

The book is available from the Software Distribution Center as P/N 32033-90009. It obsoletes the book called $Using\ Files\ (P/N\ 30000-90102)$, but doesn't simply replace it. Physically, it's about the same size as $Using\ Files:\ 8\frac{1}{2}\times9$ inches in a horizontal format, wire-bound, and runs about 200 pages. It's US list price is under \$5 (internal) and under \$15 (external).

There will also soon be a companion volume: HP 3000 Guide for the New System Operator.

HP 3000 Series 37 support for a complete solution

Amy Ting/PRSD

HP recognizes that end-users of value-added resellers have special support needs and therefore offers effective, aggressively priced solutions to meet those needs. With HP support, HP 3000 Series 37 customers receive the maximum benefit from their system before, during, and after system implementation. This helps to reduce your post-sales burden and leads to satisfied customers that generate repeat sales.

Start-up support services

Because many Series 37 customers are not experienced computer users, HP offers start-up training and consulting services to guarantee a successful system implementation.

Managing Your System Implementation. Beginning in May, HP will offer a free one day workshop for new US Series 37/42 customers. "Managing Your System Implementation" will provide information about planning the preparation, installation, implementation, and ongoing support of a new Series 37/42. The workshop is designed to be completed prior to system delivery or six weeks thereafter. Topics covered will include facility equipment, materials and staffing needed to run the computer, as well as activities to enhance system productivity during implementation and operation. This workshop is an excellent way to lower your customers' apprehensions about managing their Series 37 and to set their expectations about how HP support services can increase system productivity.

Hardware and Software Installation. Included with the Series 37 bundle are site prep, system installation, and instructions on daily care and proper usage of the system. This service includes installation of the hardware and the operating system. Installation assistance may be scheduled between 8 a.m. and 5 p.m. Monday through Friday excluding holidays.

System Administration Training. This is a four-day course that teaches customers how to manage the day-to-day operation of an HP 3000. This course was developed specifically to meet the needs of Series 37 customers with little or no data processing background and with other job responsibilities in addition to managing the HP 3000. It is the most effective training available for Series 37 customers managing systems in a run-only operating environment that does not require load balancing. "System Administration Training" is the minimum



prerequisite for receiving Response Center Support or Account Management Support.

Implementation Consulting. An HP systems engineer can provide personalized assistance to help Series 37 customers during system implementation. Customers may wish to purchase such assistance to help prepare for system installation, to set up initial procedures to run their system, or for problem prevention or resolution. Consulting services are available on a time and materials basis from 8 a.m. to 5 p.m. Monday through Friday, excluding holidays.

On-going support services

HP's hardware and software support has consistently received top industry ratings, and Series 37 customers will want to take advantage of these services to maximize their long-term system availability.

Hardware Maintenance Services. Hardware system maintenance services provide a range of response times and coverage options to meet entry-level customers' needs. For cost-conscious customers, the Basic System Maintenance Service is the correct support solution when support needs can be met by next day response and weekday coverage from 8 a.m. to 5 p.m. Faster response times and longer coverage hours are available at a higher price through the Standard Systems Maintenance Service. Under both services, customers receive an account-assigned customer engineer, scheduled preventive maintenance, quick resolution of unscheduled repairs (including travel, parts, and labor), and remote support for customers with a qualified modem. Remote support ensures that, when appropriate, a Response Center engineer will call the customer within 30 minutes to determine the cause of a hardware problem and if the problem can be solved without going on-site.

Software Support Services. HP's software support program allows entry-level customers to choose from four levels of support coverage. Experience has shown that RCS generally provides the best support fit for Series 37 customers in a run-only environment with turnkey applications. AMS is the preferred solution for customers with a complex environment.

Response Center Support. RCS features telephone assistance and remote support through the Response Center for quick problem resolution, usage assistance, and software problem reporting. Remote support allows Response Center specialists to run tests, diagnose functional problems, and install necessary patches remotely. This service is available to Series 37 customers that purchase RCS for one year at the time of system purchase or prior to installation. RCS customers also receive all of the benefits of HP software enhancements, manual updates and the Software Status Bulletin and HP Communicator.

Account Management Support. AMS is the preferred support solution for customers doing development work or those with a complex environment. AMS features personalized, on-site support through an account-assigned systems engineer that takes a proactive approach to support. Specific services include support management reviews, software release planning sessions, HPTrend system performance analysis, and on-site problem resolution when required. AMS customers also have full access to the Response Center and to changes and improvements in HP software and documentation.

Software Materials Subscription. SMS allows customers to keep current on the latest software enhancements and documentation updates through the mail and is an integral part of Account Management and Response Center Support for system software. Although not recommended for Series 37 customers, SMS can be purchased as a standalone support package for system software. Customers selecting this option should understand that if any on-site support is required, it must be purchased on a time and material basis.

Ordering information

The table below summarizes the support product numbers and prices for HP's Series 37 support services.

Support P/N	Support service	US list price
Start Up Service	es	
51411A	Managing Your System Implementation (2 students/system)	Free
51404A	Systems Administration Training	\$640
51414A	Implementation Consulting (T&M)	100/hr.
Contractual He	ardware Support	
32459A,	Standard Monthly	117/mo.
7945A,	Maintenance Contract	
9144A,	Basic Monthly Maintenance	94/mo.
2392A,	Contract	
40290A		
Contractual So.	ftware Support	
	Account Management Support	
32449A + T51	1600 bpi mag tape	285/mo.
32449A + T22	tape cartridge	285/mo.
	Response Center Support	
32449A + H51	1600 bpi mag tape	130/mo.
32449A + H22	tape cartridge	130/mo.
	Software Materials Subscription	
32449A + S51	1600 bpi mag tape	80/mo.
32449A + S22	tape cartridge	80/mo.

continued on next page

Where to go for more information

For more details on these support services, refer to Multiply Your Selling Efforts With VARs: Sales Training Manual (3/86). For further assistance in identifying the right support solution for Series 37 customers, contact your region sales development specialist at 408-725-8111.

HP 3000-to-IBM product line price changes

Raphael Carty/IND

Effective on the April 1, 1986, Corporate Price List, the prices of most HP 3000-to-IBM products will be increased slightly to reflect rising costs of product development and testing. The products affected will include the following: SNA IMF, SNA Link, IMF, MRJE, RJE, and BSC Link. Due to the 30-day grace period, the new prices will become effective on May 1, 1986.

The price changes are detailed below:

P/N HP-1BM network		Series 37			Series 39 thru 70				
service product	Old		New		Old		New		
		"A"	"R"	"A"	"R"	"A"	"R"	-"A"	R''
30247	SNA IMF	\$2,800 \$.	1,960	\$3,200	\$2,250	\$7,000	\$4,900	\$8,050	\$5,640
30250	IMF	2,800	1,960	3,200	2,250	7,000	4,900	8.050	5,640
30249	MRJE	1,700	1,190	1.950	1.360	4,400	3,080	5,050	3,530
30248	RJE	1,000	700	1,150	800	2,600	1,820	2,950	2,060

The price of an upgrade from a Series 37 option to a Series 39 thru 70 option is equal to the difference between the two option prices. For example, the upgrade of SNA IMF (A copy) is priced at 44,850 = 8,050 - 3,200.

π	HP-IBM network link	Series 37			rs 39 170	Series III	
	product	Old	New	Old	New	Old	New
30246	SNA Link						
	Modem option	\$4,535	\$5,200	\$7,560	\$8,650		—
	V.35 option	4,535	5,200	7,560	8,650		
	No hardware	1,815	2.050	3,325	3,800		
30251	BSC Link						
	Modem option	3,025	3,450	5,040	5,750	5,445	6,250
	X.21 option			5,040	5,750	5,445	6,250
	Autocall option	3,025	3.450	5,040	5,750		
	V.35 option	3,025	3.450	5,040	5,750	5,445	6,250
	No hardware	305	350	805	900	805	900

Correction

In the March 1 issue of *Information Systems & Manufacturing News* the article entitled "U-MIT is released, and more MIT news" (page 11) incorrectly states in the first sentence that MPE V/E U-MIT is the latest version of MPE for the HP 3000 Series 68. MPE V/E U-MIT is the latest version of MPE for all HP 3000 systems.

Also in this issue

New tape drive offers unattended backup for mid-range systems

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COMMERCIAL EDP

HP 3000 Series 930 return credit program

Que Foor/FRD

In conjunction with the HP 3000 Series 930 Special Return Program, Finance and Remarketing Division (FRD) offers return credits for I/O expansion products and memory products for customers upgrading to the HP 3000 Series 930. The table below lists return credit additions to the Corporate Price List.

P/N	Description	Return credit
34299AN	Return credit for 48 ATP ports (includes an SIB) from a new Series 70 (no upgrades of box swaps) for a 48-port Distributed Terminal Controller (DTC) on a Series 930	\$15,000
30273AN*	Return credit for Direct Connect Expansion Pack	2,500
30274AN*	Return credit for Modem Expansion Package	2,900
30145AN**	Return credit for ATP Direct Connect Port Controller	1,650
30155AN***	Return credit for ATP Modem Port Controller	2,050
30144AN	Return credit for ATP System Interface Board	800
30464AN	Return credit for Expansion Bay and I/O Adapter	6,000
30143AN	Return credit for Series 6X, 70 I/O Adapter Module	2,000
30165AN	Return credit for 4-Mbyte memory module for Series 64, 68, and 70	12,000
30173AN	Return credit for 2-Mbyte memory module for Series 42XP, 58	4,000
30079AN	Return credit for General I/O Channel	400

- * Must include one ATP and one SIB.
- ** Credit also applicable with 30155A or 30244A purchase.
- ***Credit also applicable with a 30244A purchase.

Notes:

- More than one ATP and memory credits may be ordered.
- Eligibility requirements for the Special ATP Return Credit program may be found in the HP AdvanceNet Networking Sales Guide (P/N 5954-6339).
- Return credits for Series 930 orders are issued to customers upon return of the hardware to FRD.

Return credits are purchase agreement discountable.
 Please call your FRD Market Development contact with any questions.

Price changes to System Solution and HP 3000 Series 48R

Que Foor/FRD

In alignment with the new HP 3000 Series 58 and Series 70 pricing structure, Finance and Remarketing Division has reduced the price of the remarketed Series 48R to \$52,500, a 30 percent savings over the price of the new Series 48 of \$75,000. The remarketed Series 48R can be targeted toward the customer who does not initially need the power of the Series 58 but requires more terminal connectivity than the Series 42 offers.

Also, System Solution with the Series 48R CPU is reduced by \$5,000. The table below includes additions to the December 1985 announcement of System Solution (see "FRD announces the System Solution package" on page 11 of the December 15 issue of *Computer News*).

P/N	Description	US list price	Factory base price
34201AR		\$70,000	
(for US)			400 155
32451AR			\$68,155
(for Interco	on)		
	Series 48R (2 Mbytes and 2 GICs) HP 7925MR with HP-IB HP 7925SR HP 7970ER with HP-IB 30018AR (qty. 1) 2624BR with cable (qty. 4)	
Opt. 001	Replaces HP 7970ER with HP 7974AR	5,000	5,000
Opt. 002	Replaces HP 7925SR with HP 7933HR	20,000	19,725

Remember that when you face tough competition or deal with price sensitive customers, selling remarketing hardware with HP value-added channel software solutions can win the deal.

Terminal change for HP 2680A and 26804B printers

Chris Privon/Boise Division

Effective April 1, 1986, the HP 2628A terminal in the HP 2680A Option 500 and HP 26804B Option 094 is being replaced with the HP 2393A terminal. Bundled with the HP 2393A is a five-meter (16-foot) RS-232 HP 3000 connecting cable.

Options 500 and 094 are used to create forms and environments for printing on the HP 2680A. You and your customer can justify laser printing because these electronic forms replace many of the preprinted forms used on impact printers.

The HP 2680A laser printer connects to HP 3000 systems and the HP 26804B print station is connected via datacom lines to a host mainframe (such as an IBM or Univac). With the HP 26804B, the customer can offload printing from the mainframe and print the output where it is needed. The advantages to customers are reduced data processing printing costs and more timely output.

If you have questions about these products or the new terminal, contact Mary Miller or Monica Warne at the Systems Marketing Center, 408-257-8907.

OFFICE SYSTEMS

Corporate site license benefits for your customers

Marc Burch/PSD

The Corporate Software Site License Program for Personal Computers will now allow you to compete aggressively in selling office solutions to your customers. You should be able to leverage software sales into Hewlett-Packard's Personal Productivity Center office strategy.

When talking to customers, sell the following benefits of the program:

- Software standardization to minimize support and training costs.
- Cost savings from economies of scale.
- Customer reproduces a specific number of site licensed products.
- Ability to control software distribution.
- Immediate software availability.
- End users on the same software version.

- Documentation unbundled.
- Serialized colored labels with customer name.
- Forestalls the threat of illegal copying.

Sell your customers on standardization of software on the HP Touchscreen, HP Vectra, and IBM personal computers. Don't miss the sales opportunity to sell the Corporate Site License Software into your accounts that have a large installed base of IBM personal computers.

Price breaks

Following is an example of how to calculate the total percentage price breaks for the "Q" products. See the Corporate Price List for the pricing on the "S" products and "T" products.

Example of software price breaks:

US list price	\$100
Site price break	-15%
New site list price on Corporate	205
Price List	\$85
Customer purchase agreement applied	-33%
Price to Customer	\$57
Total percentage off US list	43 %

The "Q" (customer-produced discs) and "S" (HP-produced discs) products are on the purchase agreement contracts and the "T" products (documentation) are *not* on the purchase agreement contracts.

For additional information refer to the March 1 *Information Systems & Manufacturing News*; a sales guide field insert on this program will be in the April 15 issue.

Print Central site licensing introduced

Quentin Steele/OSD

Print Central has joined the ranks of HP proprietary products available under The Corporate Site License Program (for program details, see "Announcing a corporate site license program for HP personal-computer software" in the March 1, 1986, issue of *Information Systems & Manufacturing News*).

Effective April 1, customers who buy at least 50 copies of either Print Central/Touchscreen or Print Central for the HP Vectra and IBM PC/XT/AT personal computers are eligible for price breaks ranging from 15 to 75 percent

when combined with A1/A9 customer purchase agreements.

Using Print Central, your customers can print personal-computer-application output to high-quality HP 3000 system printers, including the HP LaserJet, the HP 2680, and the HP 293X family printers. The new pricing makes this capability even more attractive to major accounts and helps you establish Hewlett-Packard as their vendor of choice for office automation. The site license program demonstrates Hewlett-Packard's continued commitment to the Personal Productivity Center, providing costeffective, integrated PC solutions.

Order information

Product name	P/N for Touchscreen	P/N for Vectra	
Print Central (customer reproduces software on discs)	32590Q	32591Q	
Print Central (HP provides all master discs)	32590S	32591S	
Print Central Documentation (quantity of five)	32590T	32591T	

Complete information regarding all of the products sold under this program will be in a Sales Guide inserted in the center of the April 15 issue of *Information Systems & Manufacturing News*. For further information on Print Central, contact Quentin Steele or Randy Hujar at HPD500/D5 or 916-786-8000.

HP Graphics Curator/3000 conversion considerations

Paula Dieli/PSD

HP Graphics Curator/3000 is a quick-and-easy file-conversion application to perform conversions between HP 3000 figure files and Graphics Gallery picture files. It enables you to convert graphic images between the Gallery format, used by HP's personal-computer-based applications (Drawing Gallery, Charting Gallery), and the Figure format, used by HP 3000-based applications (HPDraw, DSG/3000, HPEasyChart, HPMap). HP Graphics Curator/3000 provides an easy-to-use VPLUS user interface, and direct access from AdvanceLink command files or MPE User-Defined Commands (UDCs). For more product details, see the insert in the March 15 issue of *Information Systems & Manufacturing News*.

The design of HP Graphics Curator/3000 allows HP applications to read uploaded Gallery files or downloaded

figure files with little or no modifications. Listed below are some helpful hints your customers will find useful when using HP Graphics Curator/3000.

Figure to Gallery considerations

- Number of figures HP 3000 graphics products allow more than one figure per figure file, whereas each Gallery picture file can contain only one picture.
- Character outlines Some HP 3000 fonts allow a different pen to be used to outline a character than is used for the character fill. They also allow for characters to be drawn with an "outline only." Gallery files will only use the fill pen for both the fill and the outline of a character. Solid-fill characters will be used for text which was "outline only" in the figure file.
- *Fonts* There are more fonts available for use in figure files than in picture files. The best substitution will be made (fully documented in the manual).
- Italics Italicized text in HPDraw figures will be replaced by "un-italicized" text in the same font when converted.
- Text direction Text in figure files can be written in any direction. Gallery files only allow text to be written at 0, 90, and 270 degrees. The best substitution will be made in the GAL file.
- Line styles Drawing Gallery only uses seven line styles, while figure may have up to eight. Thus, line style 6 (dashed line) in a figure is displayed as line style 3 (dot-dashed line) in Drawing Gallery.
- HPMap borders If you suppress borders in an HPMap figure and convert it into a picture, Drawing Gallery will display the picture with borders. However, when you print or plot the picture, the borders will be suppressed as they were in HPMap.
- Many-sided polygons A polygon (in a figure) with more than 104 sides is split into two polygons when converted into a picture. However, the two polygons still appear as one.

Gallery to Figure considerations

- Markers The Gallery marker composed of a square with a cross inscribed in it will be substituted by a circle with a cross inscribed in it when converted to a figure.
- Thick lines Gallery files allow variable line widths.
 Figure files do not have this feature. Thin lines will be substituted.

Even with these considerations, HP Graphics Curator/3000 is the only solution for your customers who want to do graphics creation on the workstation but also want to take advantage of the HP 3000 benefits.

continued on next page

Information Systems

Target markets

Sell HP Graphics Curator/3000 to your customers currently using HP 3000 Graphics products. This enables them to begin migrating graphics to the workstation — a better solution for screen-intensive applications. CPU resources are then offloaded.

The Office Graphics Bundle, which includes HP Graphics Curator/3000 and five copies of the Gallery Collection, is the perfect solution for customers who haven't yet been introduced to the highly successful Graphics Gallery products but would like to offload graphics creation to the workstation. Purchase of the Office Graphics Bundle is a 15 percent discount of the total product value. See details below.

Ordering information

HP Graphics Curator/3000 (P/N HP36926A/R) is available on the T Delta-4 MIT. The A product is \$2,500 (Option 320) with Option 310 for \$1,500 and Option 315 for \$1,000. The R product is available for \$1,800 (Option 310 is \$1,000 and Option 320 is \$800).

Important customer discount

HP Graphics Curator/3000 is also available with the Office Graphics Bundle (P/N 36929A/R), a new product also on the March 1 Corporate Price List. The A product sells for \$4,500, or \$3,200 for the R product. The bundle contains one copy of the HP Graphics Curator/3000 and five copies of The Gallery Collection — a 15 percent discount of the total product value.

HP Graphics Curator/3000 sales documents available

Paula Dieli/PSD

The March 15 issue of *Information Systems & Manufacturing News* contained the HP Graphics Curator/3000 Sales Guide. HP Graphics Curator/3000 is a quick and easy application that performs conversions between HP 3000 figure files and Graphics Gallery picture files.

HP Graphics Curator/3000 combines the benefits of the friendly and powerful HP microcomputers with the flexibility of the HP 3000 departmental computer. For example, HP Graphics Curator/3000 will enable a Graphics Gallery user to use a picture on the HP 3000 for use with HPDraw, TDP or HPWord. Or, an HP 3000 user can use

a figure on the Touchscreen PC in Drawing Gallery or in an Executive MemoMaker document.

The sales guide contains useful information such as: Competition, Where to Sell, How to Demo, and includes a section of commonly asked questions and answers.

Data sheet available

The HP Graphics Curator/3000 data sheet has been sent to all commercial sales reps and all commercial systems engineers. Extra copies were sent to all area librarians. Additional copies of the data sheet can be ordered from the Literature Distribution Center using P/N 5954-7453.

SE self-study training

Training for field support has been sent to all systems engineers signed up on the HPDraw MUS. Additional copies can be ordered by placing a non-discountable I-2 HEART order with SDC referencing the following information: P/N 36926-90002; HP Graphics Curator/3000; P/L 59; PRICE = PLEASEADV; S/F = 09; MK = 50; SUP = 5006.

Customer documentation

HP Graphics Curator/3000 using guides have been sent to all systems engineers signed up on the HPDraw MUS and additional copies can be ordered through Direct Marketing Division (DMK) using P/N 36926-90001 for "Using HP Graphics Curator/3000."

Ordering information

HP Graphics Curator/3000, P/N 36926A, is \$1,000 for use on HP 3000 Series 37 computers and \$2,500 for use on all other HP 3000s. It is available on the T Delta 4 MIT

Important customer discount

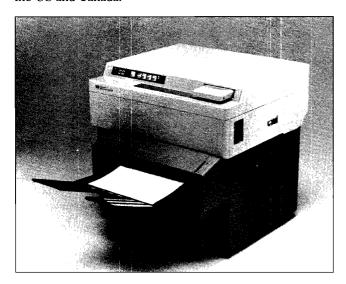
HP Graphics Curator/3000 can also be purchased as the "Office Graphics Bundle" for \$4,500 (P/N 36929A) which includes HP Graphics Curator/3000 and five copies of The Gallery Collection for the Touchscreen PC (45478A). For the right to copy, the bundle is available for \$3,200 (P/N 36929R). The price of the bundle is a 15 percent discount of the total product value. The bundle is ideal for those customers who want to transfer their graphics creation to the workstation thereby freeing up HP 3000 CPU resources.

Introducing the HP LaserJet 500 PLUS printer

Linda Lewis/BOI

For the US and Canada only

On March 24, Boise Division introduced the HP LaserJet 500 PLUS printer — the newest member of the HP LaserJet family of personal office printers. At introduction, the HP LaserJet 500 PLUS will only be available in the US and Canada.



This new printer has the same capabilities as the HP LaserJet PLUS with the addition of increased paper-handling flexibility.

New features

- Two paper input trays (holds 250 sheets of paper each).
- One output tray (holds 250 sheets of paper).
- Correct order output (face down).
- Job offset (job separation between documents).

As the name implies, the LaserJet 500 PLUS has a paper handling capacity of 500 sheets (two input trays hold 250 sheets of paper each). Paper trays can be selected from the front control panel or from within the document. For example, if "Auto" is selected from the front control panel, the printer will automatically switch from one paper tray to another when the paper is out and can run continuously as long as paper is alternately replaced in the upper and lower trays.

One important feature is the ability to select the stacking order of your printed copy in either correct (face down) or reverse (face up like the HP LaserJet or HP LaserJet

PLUS printers) order via a toggle switch in the front of printer.

The job offset feature is ideal in multi-user environments because the user(s) can physically separate different jobs. This feature can be performed only when correct order output is used and can be accessed only from your document. Job offsetting should not be confused with collation which will separate and arrange multiple copies of the same job.

HP LaserJet family compatibility

The HP LaserJet 500 PLUS printer is 100 percent compatible with the HP LaserJet and HP LaserJet PLUS printers. Any software that runs on the HP LaserJet or HP LaserJet PLUS printers will run on the HP LaserJet 500 PLUS printer.

All HP LaserJet and HP LaserJet PLUS font cartridges, soft fonts and EP toner cartridges will work with the HP LaserJet 500 PLUS printer. The major difference is that the HP LaserJet 500 PLUS uses larger paper trays.

HP LaserJet 500 PLUS printer ordering information

The HP LaserJet 500 PLUS has a US list price of \$4,995 and is immediately available for shipment in the US and Canada only. Two paper input trays (letter size) and one paper output tray are included in the price.

Product	Description	US list price
2686D	115V LaserJet 500 PLUS	\$4, 995
92287B	LaserJet 500 PLUS Letter paper tray	72
92287C	LaserJet 500 PLUS Legal paper tray	72
92287D	LaserJet 500 PLUS A4 paper tray	72
92287E	LaserJet 500 PLUS B5 paper tray	72

HP LaserJet printer family supporting literature

P/N	Literature	Order limit
5954-2291	LaserJet Family #10 Flyer	25
5954-2292	LaserJet Family Brochure	25
5954-2293	LaserJet Family Sales Guide	25
5954-2294	LaserJet Product Sheet	25
5954-2295	LaserJet PLUS Product Sheet	25
5954-2296	LaserJet 500 PLUS Product Sheet	25
5954-2287	LaserJet Family Ordering	25
	Checklist and Price Guide	
5954-2300	LaserJet Family Data Sheet	25

There is no charge for literature and all pieces can be ordered through your normal distribution channels.

Supplies for the new HP LaserJet 500 PLUS printer

Debbie Litle/DMK

Paper cassette trays for the new LaserJet 500 PLUS are now available through Direct Marketing Division (DMK). We offer four different sizes to accommodate most printing applications. The LaserJet 500 PLUS holds two paper cassette trays of 250 sheets each.

P/N	Paper cassette tray size	US list price
92287B	Letter size 8½" X 11"	1-2 trays \$72.00 each 3-9 trays 61.50 each 10+ trays 54.00 each
92287C 92287D	Legal size 8½" X 14" Metric A4 size 210mm X 297mm	same as above same as above
92287E	Metric B5 size 182mm X 257mm	same as above

In addition, DMK also carries supplies for the LaserJet/LaserJet PLUS printers, that work with the LaserJet 500 PLUS printer, including: 22 font cartridges, black and brown toner cartridges, overhead transparency film, and labels. All these products are featured in DMK's Computer Users Catalog Personal Computer Users Catalog. For fast service, customers should call DMK's Direct Order phone numbers listed in the back of *Information Systems & Manufacturing News*.

HP LaserJet printer toll-free assistance line changed to new toll number

Walt Sledzieski/BOI

Over the past year and a half, Boise Division has offered a toll-free LaserJet printer customer assistance service. The LaserJet Assist group provides high-level post sales support to LaserJet family end users.

If you have tried to contact our toll-free number lately, you have probably received a constant busy signal. We are aware of this situation and are moving to correct it.

On March 3 we replaced our toll-free assistance line with the new toll number, 208-323-2551. Our decision to replace it comes at a time when several other changes are being made to insure the continued success of our operation. While it will appear that we are taking a major service away from the customer, we feel that it will enable us to provide better overall support. Making this change will do the following:

- Encourage users to seek answers to their questions through existing documentation. Our call data has shown that many of the answers provided can be located in existing literature (manuals, font catalogs, etc.).
- Enable us to hire additional staff to support the escalating number of customer questions.
- Encourage users to seek assistance from other available channels. For example, customers can contact their dealers for assistance. Dealers have a dedicated HP support group to contact if they are unsure of the answer.
- Enable us to supplement the direct customer support function with an electronic voice-mail system. This will provide the customer with rapid access to commonly asked questions and other electronic tools that will help answer their questions.

The information we provide will continue to be free of charge. The LaserJet printer is a very successful product and demands a high level of post sales support. We are committed to our current and future customers and feel that these changes will help us to better serve them.

FINANCIAL APPLICATIONS

Introducing HP Financial Budgeting

Glenn Matsuda/MPD



The Boeblingen General Systems Division (BGD) is pleased to announce the manufacturing release of HP Financial Budgeting (HP FB), the newest application in our family of financial-management systems. HP FB is an interactive system that can provide

your customers with all the information they need to manage their business. It has been specifically designed to meet the needs of a company that would like a sophisticated tool for planning and controlling the financial performance of departments, production lines, sales regions, or any other organizational level.

HP Financial Budgeting provides solutions for the following areas:

- Creating comprehensive budget plans in worksheet format.
- Consolidating budget plans for higher level reviews.
- Monitoring financial performance with budget to actual and variance reporting.
- Analyzing the financial impact of different business scenarios with "what if" capabilities.
- Interfacing with HP General Ledger and other accounting environments.

Ordering information

P/N	Description	US list price
35350A	HP Financial Budgeting	\$20,000

Sales aids

In conjunction with the manufacturing release of HP FB we are kicking off a sales campaign with the distribution of the HP FB Introduction Pack. This comprehensive package of sales aids is designed to assist anyone giving a presentation on HP FB. This material can be used to give a very detailed demonstration or a basic overview. It consists of a field training manual, a slide pitch and script, a system demo tape which highlights the major features and capabilities of HP FB, and an instruction guide for creating the demo and slide pitch.

These items along with the Product Evaluation Guide (PEG) will be available in all sales offices. Additional copies of the PEG (P/N 5953-6618) can be obtained from the Literature Distribution Center. Additional copies of the other sales aids can be obtained from Manufacturing Productivity Division and BGD.

Budgeting under the gun: beta testing HP Financial Budgeting

Steve Calderwood/MPD

What do you do when your back is against the wall? That's the question that our beta test site, a half-billion dollar US subsidiary of a UK company, asked in October 1985. They had two months in which to prepare their 1986 budgets for five divisions plus US headquarters. The problem was in their current budgeting system and something well known to large corporations: reorganizations. They were currently using an inflexible software

application on an IBM system and just implementing the reorganizations would consume most of the two-month timeframe, not to mention the follow-on budgeting process.

So, they decided to look at their alternatives. They were in the process of replacing their old accounting system with HP Financial Accounting and heard of a new product coming out of Boeblingen General Systems Division (BGD) called HP Financial Budgeting (HP FB). After analyzing the package and visiting one of the HP divisions using the software, they decided that they had a better chance of implementing HP FB in the two months than trying to make do with the existing system.

They hired a system administrator and a consultant to perform the implementation and with the help of some temporaries for data entry, they finished the budgeting cycle and produced their first consolidated profit and loss statement on December 20, in time to send it to the UK parent. But, as anyone in HP knows, your first budget is never accepted.

At 10:00 a.m., on Friday, the division controllers were told what changes needed to be made and by 5:00 p.m. they had all been input, the files sent to corporate, the consolidation run completed, and a new profit-and-loss statement generated, thus saving a lot of people from working on the weekend. Furthermore, they now have the process down to three hours.

How does the customer feel about HP FB? According to the system administrator, "I looked around at the INTEREX Conference in Washington, D.C., and I couldn't find anything comparable. Now, I wouldn't trade it for anything."

For more information on HP's latest financial product, HP Financial Budgeting, or information on its beta sites, contact Steve Calderwood, Financial Program Manager, or Glenn Matsuda, FMS Product Manager at 408-559-7300.

DISTRIBUTION SYSTEMS

HP sells distribution software to distribution resources company

Bill Stidham/OSD

After several months of intense effort in reviewing several value-added-channel (third-party) proposals, Hewlett-Packard has entered into an agreement with Distribution Resources Company (DRC) to take over the

Information Systems

ownership, marketing, and some of the support activities for Information Resources Operation (IRO) software products — HP SFD, HP OM and HP INVISION. The principals of DRC are IRO managers, who are leaving HP to establish this new company. Joe Peters, IRO marketing manager, will serve as president and chairman of the board of DRC. Joe is a former HP SFD user and has served as chairman of the SIGSFD User Group. Don Kirkpatrick, former IRO R&D manager and IR founder, will be vice president of R&D. They will employ several of the current IRO staff members which will assure our customers of continuity of product knowledge and industry expertise. The specifics of the agreement include the following:

- HP agrees to sell to DRC those HP software products, documentation, and related materials named HP SFD, HP OM, and HP INVISION, DRC will assume responsibility for licensing the software products to customers. DRC agrees to license these same products back to HP so HP is able to discharge our support commitments to our installed customers. HP will have access to the software, related updates, fixes, upgrades, documentation, and associated materials necessary to fulfill its support obligations.
- HP will remove the products from its price list March 1, 1986. Subsequently, all customers will purchase the products from DRC.
- HP will receive a royalty on each copy of the software sold by DRC over the next five years. This is a unique arrangement and provides added incentive for HP sales reps to point prospects in the direction of DRC.
- As of March 1, 1986, DRC will become a national VAR. To provide a smooth sales transition, until November 1, 1986, the end-user sales discounted hardware sold to DRC, with DRC's value-addedchannel representative receiving an additional 50 percent for all new system sales. All current SFD customers will have the opportunity to choose to purchase add-on hardware or system upgrades from either HP or DRC. If the customer elects to purchase addons and upgrades from DRC, the end-user sales representative will receive 100 percent quota and commission for the discounted value of all hardware sold. Beginning November 1, 1986, quota and commission will work as for any VAR. DRC has agreed to act as a software supplier with our major accounts where appropriate.
- DRC will honor any existing purchase agreements to the extent that the customer will receive at least the same discount percentage on future software purchases for the duration of their existing agreement.

For HP Use Only

- HP will continue Response Center Support and related software distribution responsibilities for the software through the A.07.XX releases of HP SFD and HP OM and through the A.03.XX release of HP INVISION for five years after the date selected as the date for commencement of the obsolescence of the A.07.00 and A.03.00 versions of the software products. However, HP has no plans to obsolete these products in the near future. HP and DRC will cooperate to develop a plan for Response Center Support of logical extensions to the A.07 and A.03 software products.
- Initially, HP will continue to offer AMS on-site services. During the first year of the agreement HP and DRC will develop a Transition plan so that DRC will assume sole responsibility for AMS on-site services no later than May 1, 1987. The transition plan is presently being drafted and will be coordinated with Product Support Division, Application Support Division, response centers, and the field offices prior to finalization. HP reserves the right to offer support contracts for HP 3000 volume end-users.
- HP and DRC have developed a plan for the transfer of key employees from HP to DRC.
- HP has one seat on DRC's board of directors.
- HP has a warrant for a ten percent equity position in DRC.

Having selected DRC as a value-added-channel with expertise in these specific products and with HP continuing to play a significant role in that organization and in the support of these distribution products, we believe that the IRO customers can look forward to on-going product stability and future enhancements.

The Office Systems Division (OSD) has the on-going HP "factory support" responsibility for these products. HP has chosen to subcontract the many elements of "factory support" to DRC. Additionally, Bill Stidham has been identified as the full-time project manager to insure that the transition goes smoothly and that the necessary working relationships between HP and DRC develop in the appropriate manner. Bill will be reporting directly to Dave Sanders, OSD general manager, in his new capacity and will be the key contact for SFD issues after March 1, 1986. Bill is now located at the IRO offices in Englewood, Colorado, and will be relocating to Roseville, California, in April.

VERTICAL MARKETS

Hewlett-Packard spotlighted at New York Legal Tech conference

Susan Diehl/ISG

The annual New York Legal Tech conference was held February 24-26, 1986, and attracted over 400 managing partners and administrators of law firms mainly from the eastern regions. The conference focused on issues surrounding the automation of law offices and addressed topics such as technological trends, automation objectives and solutions, and the various uses of computers in law offices. In addition to the workshops, 133 vendors had booths exhibiting their products.

Hewlett-Packard has been an increasing force in the legal marketplace because of the strength of our two legal value-added channels (formerly called third parties), CompuTrac and Harris & Paulson, both of which had booths at the show. The advent of the HP Vectra PC and AdvanceWrite word-processing software has been instrumental in solidifying our commitment to this market. Because of the paper-intensive nature of the legal industry, office automation is the mainstream area on which most automation decisions rest. With the HP Vectra PC, HP LaserJet printer, and our value-added-channel solutions, we now offer a highly competitive total solution for the legal market.

This competitive edge became evident in the panel discussion on automation strategies in large law firms. One member of the panel was Dave Robertson, a partner with Cadwalader, Wickersham & Taft, one of New York's largest and most prestigious law firms. Dave was responsible for evaluating and selecting the office-automation solution for the firm. He chose Hewlett-Packard over numerous other vendors, and his endorsement of our products gave much credibility to our place in the legal market. Also spotlighted at the show was the HP Portable computer. A 15-minute demonstration was given on its features and functionality for a law firm.

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Personal Computers

PORTABLE

Introducing the enhanced **HP Portable PLUS**

Iim Martin/PCD



The Portable PLUS is now enhanced with a high-contrast LCD display and an increased internal-memory capacity of up to 1.28 megabytes.

The HP Portable PLUS just got better. Until now, the primary objection to portable computers has been the difficult-to-read displays. No longer. The Portable PLUS now has an enhanced "next-generation" liquid-crystal display, offering significantly greater contrast and over twice the viewing angle. And this greater readability comes at no sacrifice to existing battery life, size, or ruggedness of the products. Like the old display, it operates by changing the intensity of reflected light, but unlike the old display, it also changes the color of the light. Instead of dark grey letters on a light grey background, you get dark blue letters on a yellow-green background. Because the human eye is far more sensitive to yellow-green than to blue, the perceived contrast is far greater.

In addition, the internal memory has been increased from 128 Kbytes to either 256 Kbytes or 512 Kbytes. This means that with one additional fully loaded drawer of memory the Portable PLUS can now be configured with 896 Kbytes of memory, or with two full memory drawers, an incredible 1.28 megabytes of memory is possible. All existing accessories, software, and peripherals are compatible with the enhanced product. For current Portable PLUS users, an upgrade program is now available from the factory to take advantage of either of these new enhancements.

The Portable PLUS has proven itself to be the most convenient to use and the most durable portable computer available. The enhanced display and increased memory

For HP Use Only

capacity now make the Portable PLUS an even more convenient and powerful product. And to back up the claim of durability, effective April 1, the warranty is being increased from 90 days to one year.

All in all, the enhanced Portable PLUS is a product you should see for yourself.

The new Portable PLUS fits sales force automation needs

Terry Tallis/PCD

Do you have accounts who have large sales forces and are in an environment where the savings of a dollar connected with the sales effort has considerable positive leverage throughout the business? Does the company want to upgrade the effectiveness of their sales force? With its increased memory and usefulness, the new Portable PLUS becomes a key to unlocking the potential of the sales force automation (SFA) marketplace.

Companies with sales forces have an opportunity to improve their productivity using SFA systems. The companies that are the most active in 1986/87 are the nondurable goods manufacturers with large sales forces that are selling products such as consumer goods, household products, chemicals, apparel, or pharmaceuticals, to large customer bases of retailers or professionals such as doctors or engineers. In these industries, the sales rep is constantly optimizing schedules, preparing call presentations, filling out call reports, calling the factory for status on orders or inventory levels, and taking copious notes on shelf space and competitive activities. These sales reps are ripe for a faster, easier, and more professional way of doing business.

These companies typically reside in a market where they are engaged in intense competition such as breakfast cereals, household chemicals, apparel, and so on. They recognize that a relatively small cost reduction goes a long way to improving the profit picture. Increased business often comes from stealing market share. Increased profits come from incremental volume and reducing costs, particularly in administrative areas. When sales reps are making an average of 10-12 calls per day, the ability to make an additional call a day is a significant increase and in most cases is worth the value of the SFA system. A \$4,000 investment per sales rep will give a payback in four to seven months. As of January, we had six projects implemented, 13 in pilot phase and another 19 under development. Fifty other companies in these markets were evaluating SFA systems using the HP Portable PLUS. The market is ripe for SFA applications.

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For HP Field Personnel

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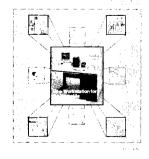
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Editor

Roman Kichorowsky

Assistant Editor

Darleen Brettes

Computer News is published biweekly for Hewlett-Packard field personnel to help you sell HP computers, computer-related products, and computer-based systems by organizing, summarizing, and highlighting marketing information about new and existing system solutions.

Introduction

Darleen Brettes/Corporate Marcom

This index includes all articles that appeared in *Computer News* from May 1, 1985 to October 15, 1985.

The articles in this index are listed in two ways — by market-focused categories, as in the Table of Contents, and by product, as in the Product Index.

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Office Systems Division

Office Productivity Division

Personal Software Division

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WAD Waldbronn Division
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Sales Force Automation identified as	0.14	-	nance Management/3000	June 1	9	Training program for customers		
strategic market	Oct 1	5	Armco Steel Company turns to	1	•	special needs	Aug 1	8
Introducing ODIN—online information	Oct 1	6	HP 2250	June 1	9	Important change in HP-ASSIST	44	,
for the field Sales Response Center receives	Oct 1	О	HP 7550 plotter helps sell two HP 3000s	June 1	10	program	Aug 1	8
10,000th call	Oct 1	7	HP Integral PC used as transportable	Julie	10	Assured International Support program	Aug 1	
SCAN-TECH 85 Super Sweepstakes	000	•	test system for large utility company	June 15	8	Hardware support price changes	Aug 1	•
for your customers	Oct 1	7	Michigan State University selects HP	ounc to	•	effective August 1	Aug 1	10
HP-UX Center opened at YHP	Oct 15	5	Maintenance Management	July 15	8	August 1 computer support price	riag i	
HP News Highlights brochure in stock	Oct 15		HP Transform/3000 wins \$1.2 million	•,	_	changes	Aug 1	1 .
3 3			deal	Aug 15	9	New support services for	, , , ,	
Major Account Activity			Remarketed HP 3000 Series 44R Ice-	•		workstation products	Aug 1	12
New Federal Marketing Operations			breaker and Transform/3000			IMAGE/1000-II customer course	_	
work with the field on government			replaces IBM System/34	Aug 15	9	revised	Aug 1	12
procurement	Aug 1	5	Selling HP solutions turns personal			Use the new users group field		
Only one month to go on the GSA ADP			computer into PPC account	Aug 15	10	training manual to increase sales	Aug 1	12
contract	Sep 1	6	Caterpillar uses the HP-75 to increase			New Interex membership brochures	Aug 1	10
Help for sales reps selling into mining		_	productivity	Aug 15	11	FRD helps customers with diasaster		
and oil & gas industries	Sep 15		Laboratory MicroSystems and HP	A 15	44	recovery	Aug 15	ŧ
MATE and Hewlett-Packard	Oct 15	5	team up for success	Aug 15 Aug 15		Predictive Support enhances HP	044	_
T1: 10 . 0			Auto-dial DS/1000 using QTD modem Metropolitan Airways Ltd. flies with	Aug 15	12	3000 support	Sept 1	
Third Party Program			HPFA	Sep 1	9	HP-ASSIST commission policy FCOPY/3000 CAI training for HP	Sept 1	•
June commercial VAR conference to		•	HP EGS ad leads to successful sale	Sep 1	9	customers and internal use	· Sep 1	5
focus on "Leaders In Solutions"	May 1	6	HP teamwork provides Union College		•	SINOPEC visits customer training	Sep 1	
HP 3000 commercial VAR conference	luno 1	0	with the right equipment for the right			Dealer Cooperative Support	оор .	•
almost here	June 1	8	price	Sep 1	10	Program training going strong	Sep 15	
OEMs and HP ThinkJet printer make winning combination	June 1	8	Improving sales to a major account	Sep 1	10	Using HP-ASSIST Additional Service		
Computer Focus for third-party	June 1	U	Customized HP 2688 printer makes			Units wisely	Oct 1	8
sales reps	June 15	6	the sale	Sep 15	6	Procedures for special support	Oct 1	8
New value-added supplier brochures	June 15		Remarketed Series 44R Icebreaker			ASD restructures computer course		
New recruiting slides for value-added			and SFD/3000 beat the competition	Oct 15	11	pricing	Oct 1	9
suppliers	June 15	7	_			Customer support — the HP sales		
HP 1000 A-Series LAN now available			Customer Support			advantage	Oct 15	7
for OEM development	July 1		New Personal Computer Assistance		_	New software support selling tool	A	_
HP Reference Service updated	July 1	6	Program replaces HP-COACH	May 1	8	available	Oct 15	
13287A Thermal Print Mechanism		_	"Managing Your Data Center" — a	M 4	0	New Response Center videotape	Oct 15	ł
removed from CPL	July 1	7	seminar for managers	May 1	8	Two new personal computer support	Oct 15	
						selling tools	OULID	- 0

PC software support can now be	Issue	Pg	INFORMATION SYSTEMS		Pg	New Rapid/3000 customer training	Issue	Pg
added to HP 1000 and HP 9000		_	General	•		courses	May 15	20
contracts Worldwide Country Support Matrix	Oct 15	9	HP 7914CT supported on HP 3000	May 1	25	HP TurbolMAGE/3000 articles appearing in The Chronicle	May 15	21
distributed	Oct 15	9	HP 9144 and 7945A supported across			HP Copycat/3000 poster available	May 15	
Kepner-Tregoe problem solving	000	Ū	HP 3000 line	May 1		Introducing Silhouette/3000	June 1	
training for your customers	Oct 15	9	HP 260 introduction a success	May 15		Silhouette/3000 can help you make		
System Support Inc. visits HP			110 and 150 baud removed from ATP	May 15	19	quota	June 1	17
customer training	Oct 15	10	Ordering the Advanced Terminal Pro- cessor on HP 3000 computers	June 1	15	HP and Carolian Systems cooperate to		
HP products on the Cooperative			Memory credit reductions	June 1		bring Silhouette/3000 to your		
Support Program	Oct 15	10	HP 260 cabling corrections	June 1		customer	June 1	18
			1985 HP 3000 MIT availabilities	July 1		New course on designing and		
Special Offers			HP 3000 media products restructured	July 1		optimizing HP 3000 applications	June 1	18
Leverage 3000 upgrade program	May 1		HP-IB extender support expanded	July 1		Supporting the Touchscreen II system		
HP 2563A printer upgrade program	May 1	11	Aggressive HP 3000 Series 37 soft-	,		console on installed HP 3000 Series 64/68 systems	June 15	10
Special discount for HP 293X		4.0	ware pricing	July 1	12	New HP 3000 Series 58 and enhanced	Julie 13	10
printers	May 1	12	New prices for HP 300 to HP 3000			Series 42	Aug 1	20
Free Printer Pack with HP ThinkJet	Mov 1	12	upgrades	July 1	12	Why the new HP 3000 Series 58 is	,	
printer Leverage 3000 upgrade program	May 1	13	Price reduction on remarketed HP 3000		40	sofast	Aug 1	20
update	May 15	13	Series III, 30, and 33 accessories	July 1	13	How to get HP 3000 Series 58 power to		
Update to FRD's "Six-Pac" special	May 15		HP 3000 Series 40/44/64 orders to end October 1	July 15	10	your customers	Aug 1	21
Remarketed HP 1000 E/F-Series			20,000 HP 3000s installed	Aug 1		Announcing HP 3000 Series 42XP and		
sales promotion	June 1	14	Entry-Level Series 37 now easier to	Aug i	15	Series 58 support	Aug 1	
New Icebreaker Plus promotion	June 15	10	order	Oct 1	12	Price changes for HP 3000 Series 39	Aug 1	23
Non-HP terminals included in HP			Disc caching with money-back			HP 3000 hardware organization video		00
264X Trade-In Program	June 15	10	guarantee for Series 37XE	Oct 1	12	available Introducing the HP 3000 Series 68C	Aug 1 Aug 15	
Remarketed peripherals sales			Terminal ports on the Series 37			New add-on memory for the HP 3000	Aug 15	10
promotion	June 15	11	improvedOct 1	12		Series 68	Aug 15	17
Reconditioned workstation	forba 4	0	Transform/3000 promotional video-		4.0	HP 3000 return credits will be		• • •
equipment promotional discounts More time for eligible HP 3000	July 1	8	tape available	Oct 1	13	changing on November 1	Aug 15	18
customers to obtain the MPE V/E			Transform/3000 flyer offers free video- tape to IBM/System/34 users	Oct 1	12	Return credit for HP 3000 Series 64/68		
firmware at no charge	July 1	9	Free DS/3000 to NS/3000 upgrade	OCC	13	memory	Aug 15	19
Software savings for HP	,	•	ends soon	Oct 1	13	HP Business BASIC: new standard for		
Touchscreen users	Aug 1	13	More modem ports for the HP 3000			commercial BASIC users	Aug 15	19
Micro/26 promotion begins August 1	Aug 1	15	Series 37 with the ATP37/M	Oct 15	14	HP Business BASIC: conversion	Aug 15	20
MEGABYTES PLUS: The Great Half			ATP37 price reduction	Oct 15	14	issues for commercial BASIC users HP Copycat/3000 versus Tymlabs'	Aug 15	20
Off Sale	Aug 1	15	New customer training course for			Backpack	Aug 15	20
MEGABYTES PLUS: disc drive			low-end HP 3000 customers	Oct 15	15	HP Model success stories	Sep 15	
trade-in program	Aug 1	15	New sales aids on HP 3000 private	0-115	45	GCO new supplier for HP 3000		•
HP 1000 Model 29 XP limited-time discount	Aug 1	16	volumes	Oct 15	15	Series 58	Sep 15	10
All-new HP 7976A-to-7978A trade-	Aug	10	Small Business Computing			HP 3000 software delivery for North		
in program	Aug 1	17	HP 250 application software			American and Intercon	Sep 15	
MEGABYTES PLUS: expanded			obsolescence	Jul 15	10	HP 3000 software delivery for Europe	Sep 15	12
upgrade program for HP 3000			Obsoleting the HP 250 SPU	Jul 15	10	Discontinued HP 3000 systems offer	0-115	10
disc drives	Aug 1	18	HP 260 poster available	Aug 1	19	sales opportunities	Oct 15	10
HP 2640 display terminal trade-in			The entry-level HP 260 offers more			Office Systems		
program	Aug 1	18	mass storage for less	Aug 15	16	New Personal Productivity Center		
Announcing the Momentum sales	A: - 45	40	Financing available for HP 260	A 1E	10	release	May 1	29
program	Aug 15	13	hardware Announcing the Fast Track/260	Aug 15	16	Introducing HP Access and HP	-	
Maintenance Magic promotion offers bundled maintenance			Program	Sep 1	12	Access Central	May 1	30
management solution	Aug 15	13	PCDO distributes the HP 260	Sep 1		Announcing Print Central products	May 1	
Discounted HP 3000 Series 37	/ lug 10		New workstation for the HP 260	Sep 15		Introducing HP Word/150	May 1	31
software from MPD and APD	Aug 15	14	Obsoleting the HP 45262D			New enhanced PPC system bundles	144	20
MEGABYTES PLUS: "Movin' on Up"			workstation	Sep 15	8	and software packs	May 1	
promotion	Aug 15	14	The HP 260 provides a variety of			Old PPC bundles obsolete "PPC Inputs" will answer your	May 1	33
FRD's reconditoned workstation			solutions	Sep 15		questions	May 1	33
program update	Aug 15	15	New HP 260 sales literature	Sep 15	9	Selling HP Word processing	May 1	
HP 264X trade-in program available			Software support for the HP 250 and	0.45	4.0	HP Slate now works with HP 2392A		
in Europe	Sep 1	11	HP 260	Oct 15	16	terminal	May 1	35
The Megabyte Express program	C 1	4.4	Commercial EDP			Remote printers for HP 3000	May 1	35
expanded A-Series promotions gain	Sep 1	11	Pricing for the HP 3000 Performance			Seminar Kit for Personal Productivity		
momentum	Sep 1	11	Analysis and Capacity Planning			Center	May 15	
Article	Sep 15		products	May 1	26	Videotape of PPC demo now available		
Article	Oct 1		HP FORTRAN 77/3000 released	May 1		An update on HP Telex II	May 15	22
HP-41 Advantage Pac promotion is			Choosing prospects for the HP 2689A	-		ATPs preferred connection for personal computers	May 15	23
big success	Oct 15	12	is easy	May 1		Solutions Quarterly now available	May 15	
MEGABYTES PLUS: "Movin' on Up"	_		HP 2689A customer data needed	May 1	28	Using the HP 7550 in a local area		_5
trade-in program extended	Oct 15		HP Rapid/3000 update—for now and	May 1F	10	network	May 15	24
HP 7908 end-of-production sale	Oct 15	12	the future New enhancements to Rapid/3000	May 15 May 15		HP LaserJet printer support on	•	
Trade up to HP 9153A and 9133H disc drives	Oct 15	12	меж еннансетненть to паріц/3000	way 13	20	HP Word V	June 1	19
disc dilyes	00115	15						

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HP 2687A price reduction HP and Santa Barbara Laboratories	June 1	19	Announcing LAN for the HP 3000 Series 37	Oct 1	18	PERSONAL COMPUTERS	3	
to co-market Centerpoint 1000 workstation	June 1	20	Print Central for the HP Vectra PC and	Oct 1		General ISV program for personal computers	Sep 15	17
success stories needed	June 1		IBM PC/XT/AT PPC Professional Pack/Touchscreen	OCU	19			
HP Word/150 is here	June 15		now includes Executive Card			Portable		
HP AdvanceNet presentation slides	Julie 15	12	Manager	Oct 1	19	The HP Integral PC now on the A-50		
and script available	June 15	12	Demotips help you sell HP Map/3000	Oct 1		contract	May 15	18
Correction to the PPC Field Training	00.10.10		The HP LaserJet PLUS printer and	001		New 1M byte memory module for HP		
Manual	June 15	12	electronic forms	Oct 1	20	IntegralPC	June 1	27
HP Touchscreen II personal computer			Consultants spotlight HP OFFICE-	-		Bus expander now available for HP		
supported as new HP 3000			ASSIST	Oct 1	21	Integral PC	June 1	27
Series 68			Application software for the HP			Modem for HP Integral PC now		
console	July 1	13	OfficeShare Network	Oct 15	16	available	June 1	28
Announcing HP Map/3000	July 1	14				HP Portable: 1985 Personal		
New version of HP Message for			Financial Applications			Computer of the year	June 15	14
ExecuDesk Customers	July 1	15	Using reference sites for HP financials	May 1	36	The Portable performs time	luna 15	4.4
New office solutions video			New Financial Management Systems	- ,		management	June 15	
presentations	July 1	16	poster available	June 15	13	Introducing The Portable PLUS Strong communications offering for	July 1	21
Effect of system volume pricing on			Introducing HP Financial Budgeting	July 15	13	The Portable PLUS	July 1	22
PPC bundles	July 1	16	Special offer on HP financial software	July 15	14	ROM software for The Portable PLUS	July 1	
Updated Personal Productivity	la de est	47	New Financial Management Systems			Existing disc-based software	outy i	
Center flyer	July 1	17	literature portfolio	Aug 1	24	broadens offering for The Portable		
New opportunity selling HP office	ludu 4	17	New Financial Management Systems			PLUS	July 1	23
products	July 1	17	campaign	Aug 1	24	FORTRAN for The Portable PLUS	July 1	
HP Word and HP LaserJet printer	July 15	11	Customer accolades for new version			Customization for The Portable PLUS	July 1	
font cartridges HP on 24 percent of office systems	July 13		of HP Financial Accounting	Sep 1	14	International versions of HP Integral	,	
vendor lists	July 15	12	New ad for the financial services			PC Bus Expander now available	July 1	25
Consultants report on HP office	July 13	14	marketplace	Oct 1	21	Portable PLUS training material	•	
systems	July 15	12	5			available	Aug 1	26
Solutions Quarterly No. 2 on its way	July 15		Distribution Systems			HP Integral PC delete option available	Aug 1	26
Executive Card Manager and	,		New HP INVISION brochure available	May 1	36	The Custom Solutions Program for the	_	
HP Access	Aug 1	23	New sales training class for HP	li in marid	00	HP Portable PLUS	Sep 1	16
Updated PPC Product Information	·		Distribution Management products	June 1		Bulletin board for HP Portable PLUS	. .	
Guide	Aug 1	23	IRO customer training schedule	June 1	21	software developers	Sep 1	16
Latest version of HP Draw features			Updated Product Evaluation Guide now available	June 15	12	New HP-IB interface card for the HP	C 4	47
new figures	Aug 15	21	Direct mail program to distributors	Julie 13	13	Integral PC	Sep 1	
HP Map/3000 sales documents			under way	June 15	13	Demo disc for the Portable PLUS	Sep 15	17
available	Aug 15		Introducing HP SFD I: easy to sell and	ounc 10	.0	HP makes grants of The Portable to university, medical programs	Sep 15	17
PPC Seminar Kit update	Aug 15	22	implement	July 1	18	The HP-41 Advantage Pac: the most	Sep 13	17
HP 2602 offers HP-IB printing solution	4 . 45		New manual set complements HP SFD I			powerful HP-41 function set	Oct 15	21
for the office	Aug 15		Price list changes for HP Distribution			HP-71 and HP-75 now GSA approved	Oct 15	
HP LaserJet printer competition	Aug 15	23	Management products	July 1	19	New book explains the HP Portable	Oct 15	
Targeting the Office materials now available	Aug 15	24	HP INVISION price reduction	July 1	20			
Colorful HP Map/3000 samples	Aug 15	24	New pricing for Distribution			Desktop		
help you sell	Sep 1	13	Management products' rights-			New extended mass storage ROM for		
New PPC competitive guide now	- J		to-copy	July 15	14	Series 80 personal computers	May 1	14
available	Sep 1	13	Other CPL changes for Distribution	1.1.45	4.5	The Touchscreen II personal	. ,	
Positioning HP Access for your	•		Management products	July 15		computer family	May 1	14
customer	Sep 15	12	Distribution products ad campaign	Aug 1	25	Sales aids for the Touchscreen II		
Shared versus non-shared printing:			Transferring data between HP SFD and Lotus® 1-2-3®	Sep 1	1.4	personal computer	May 1	
selling Print Central	Sep 15	14	New Distribution Management sales	Sep i	1-4	Touchscreen II upgrade available	May 1	17
Office automation success story	_		literature	Sep 15	16	HP Touchscreen personal computer		
presentation	Sep 15	15	HP 3000 Series 58 and 42XP may	000.0	. •	trade-in program	May 1	17
Personal computer users in 3000			improve performance for many			Direct mail program for Touchscreen II		
accounts can now receive			HPSFD users	Oct 15	18	personal computer with IBM		4.0
contractual software support	Sep 15	15	New HP INVISION overhead slide			Terminal Emulation	May 1	18
HP LaserJet and LaserJet PLUS	C 15	15	presentation	Oct 15	19	HP Touch accessory available for Touchscreen II personal computer	Movid	10
printers supported on HP 3000	Sep 15	15	HPSFDIdata sheet and HPSFD			Introducing EtherStart/150	May 1 May 1	
HP LaserJet printer family target	Sep 15	16	feature comparison now available	Oct 15	19	New personal data storage solutions	iviay i	19
markets AdvanceWrite word processing for	Sep 13	10	Updated HP Distribution Solutions			for HP Touchscreen II personal		
the HP Vectra PC	Oct 1	14	_ brochure available	Oct 15	20	computer	May 1	19
Introducing HP OfficeShare Network	Octi	17	The Wholesales Top 100 includes			EtherSeries/150 configuration	May 1	
for HP Vectra, Touchscreen, and			SFD/3000 users	Oct 15	20	PFS: File and Report and Context MBA	, .	
IBM personal computers	Oct 1	15				disc-replacement program		
New customer training course for HP	, ,	-	Vertical Markets			explained	May 1	20
OfficeShare Network	Oct 1	17	Vertical Markets Newsletter—a new		_	ThinkJet and LaserJet printers now	•	
The OfficeShare Network connection			sales tool	May 15	24	compatible with Macintosh	May 1	21
to the HP 3000	Oct 1	17	HP 1000 A900 firmware update to fix			New ThinkJet printer now offers	•	
New HP 3000 link to HP OfficeShare			SQRT problem	May 15		RS-232-C interface	May 1	22
Network now on CPL	Oct 1	18	Speech Output Module to be obsolete		21	New font cartridges for LaserJet		
			Speech Output Module obsolescence reminder	9 Sep 15	16	printer	May 1	22
			· on in loca	Ogb 10				

LaserJet printer firmware update	<i>Issue</i> May 1	Pg 23	Organizer for HP LaserJet printer font	Issue	Pg	Graphics Gallery/Vectra: Statement of	Issue	Pį
New supplies for LaserJet printer	May 1	23	cartridges available	July 15	16	direction	Oct 1	32
New supplies for ThinkJet printer SDD launches new plotter ad	May 1		Executive Card Manager brings power to information management	Aug 1	26	Announcing TextCharts for the Vectra PC	Oct 1	32
campaign Leverage your LaserJet printer	May 1		ECM: Templates showcases Execu- tive Card Manager	Aug 1	28	The Executive Series for HP Vectra and IBM personal computers	Oct 1	33
successes Inkjet paper grows in availability	May 15 May 15		The ExecuDesk System includes Executive Card Manager	Aug 1	28	Executive MemoMaker for HP Vectra and IBM personal computers	Oct 1	34
Cable linking HP ThinkJet printer to IBM PC available	May 15	14	Executive Card Manager strengthens			Executive Card Manager and ECM:	0.11	۰.
MicroSpoolers eliminate the wait	May 15		HP's image as a leading business software provider	Aug 1	29	Templates for the Vectra PC Executive Spreadsheet provides	Oct 1	3
Security modem prevents		40	CONDOR 3 free update program ends	•		power for management decision		
unauthorized access to computers New security kits help prevent theft	May 15 May 15		October 1 HP Touchscreen personal computer	Aug 1	29	making Introducing AdvanceLink 2392 for HP	Oct 1	35
HP Touchscreen II personal computer			software savings	Aug 15	25	Vectra PC and IBM PC/XT/AT	Oct 1	36
training materials now available HP Touchscreen II personal computer	June 1	22	How to spool plots or printouts with	Aug 15	25	Introducing R:BASE 5000 for		
ordering information	June 1	22	Drawing Gallery HP LaserJet printer screen-dump	Aug 15	25	HP Vectra and Touchscreen personal computers	Oct 1	37
HP Touchscreen II Upgrade Kits	4	00	utility for the IBM PC available	Aug 15	26	New HP-HIL/384 Kbyte RAM	00.	Ψ.
ordering information AutoCAD available for HP Touch-	June 1	23	Dust cover and carrying case for the Touchscreen II personal computer			accessory board for HP 150/ Touchscreen personal computers	Oct 1	20
screen MAX personal computers	June 1	23	available	Aug 15	27	Introducing Symphony for the HP	OCL	Ç
Context MBA/150 to be obsolete June 1	24		Series 80 installed base informed of	C== 1	17	Touchscreen personal computer	Oct 1	38
Bestselling games for HP personal	24		new extended mass storage ROM HP Touchscreen II to replace Touch-	Sep 1	17	HP 150 Touchscreen II one-year warranty	Oct 1	30
computers	June 1		screen personal computer	Sep 1	17	HP enters the videotex market	Oct 1	
New HP LaserJet printer font cartridge New sheet feeder triples capacity of	June 1	25	Tape backup for HP Touchscreen per- sonal computers	Sep 1	18	HP's strategic business relationships with ISV's	Oot 1	41
HP LaserJet printer	June 1	25	Introducing Painter for the HP Touch-	ОСР	10	HP ThinkJet printer now has one year	Oct 1	41
The HP LaserJet printer's first year	June 1	26	screen personal computer	Sep 1	19	warranty	Oct 1	41
Cables connect HP ThinkJet printer to Apple computers	June 1	26	Presentation graphics seminar available	Sep 1	20	Centronics ThinkJet printer market- place expands	Oct 1	41
HP integrated software solution for			EtherLink hardware and software now	•		High-capacity 5 1/4-inch media	000	
Touchscreen II personal computers Graphics Gallery and Executive	June 15	14	two separate products Supplement to HP 150 Technical	Sep 1	20	available	Oct 1	
MemoMaker compatible with HP			Reference Manual available	Sep 1	20	One year floppy disc warranty HP Vectra PC receives highest	Oct 1	42
150/Touchscreen personal	1 - 45	4.5	New HP ThinkJet printer accessory kit	C 1	04	IBM PC AT compatibility rating	Oct 15	22
computers Graphics Gallery products shipping	June 15	15	available HP data storage solutions for IBM PCs	Sep 1 Sep 1		More industry-standard products tested on the HP Vectra PC	Oct 15	22
by the thousands	June 15	17	HP 82905B printer obsolete	•		New keyboard park for the HP	00010	
Drawing Gallery software RAM requirement	June 15	17	November 1 HP 150A/B trade-in program extended	Sep 1	21	Vectra PC HP Access for the Vectra PC on CPL	Oct 15	
HP Touchscreen II personal computer	Julie 15	17	and expanded	Sep 15	18	HP FastTrak for personal software	Oct 15	23
and IBM terminal emulation	June 15	17	Executive Card Manager supports the mouse	Con 1E	10	product support training	Oct 15	23
New HP Touchscreen II personal computer ad	June 15	17	Easy file conversion from Personal	Sep 15	19	MANUFACTURING SYST	EMS	
New data tablets not supported on			Card File to Executive Card			SPN moves ahead with sales	LIVIS	
AutoCAD Lotus™1-2-3™ media replacement	June 15	18	Manager ECM: Templates is an effective "total	Sep 15	19	support	May 1	37
procedure	June 15	19	solution" demo tool	Sep 15	19	New mass storage alternative for HP 1000 and HP 9000 systems	May 1	37
8087 Co-processor Accessory	6.6.4	00	The HP ThinkJet printer compared to	C== 15	20	Positioning the HP 7907A	May 1	
increases performance HP software receives rave reviews	July 1 July 1		the competition Executive MemoMaker and Graphics	Sep 15	20	System support on the New HP		
CONDOR® for the HP Touchscreen	,		Gallery: a synergistic solution	Sep 15	21	7907A Ordering information for the HP	May 1	40
personal computer to be discontinued	July 1	26	New HP LaserJet printer drivers for MultiMate and MS Word on the HP			7907A	May 1	40
HP data-storage solutions for IBM PCs	July 1		Touchscreen personal computer	Sep 15	21	Sales aids and promotions for the HP 7907A	May 1	Λſ
HP 82906A: superior to the HP 82905B	lastes 4	07	Tailor a perfect fit with the new HP Vectra PC	Oot 1	22	New HP 1000 A-Series I/O Extender	iviay i	40
printer New bar code and OCR A font	July 1	21	HP Vectra PC proven compatible with	Oct 1	22	now available	May 1	41
_ cartridge for HP LaserJet printer	July 1		IBM PC AT	Oct 1	23	HP 1000 A-Series tall cabinet improved	May 1	42
Font cartridge price correction Replacement HP LaserJet printer	July 1	29	Wide range of data storage devices for Vectra PC	Oct 1	23	All HP 1000 tall cabinets are not	-	
supplies available	Juły 1	29	Numeric co-processor increases	000	20	alike New HP 1000 System Designer's	May 1	42
5-in-1 HP ThinkJet printer accessory	haba 4	20	Vectra PC's performance Selling the Vectra PC's video	Oct 1	24	Guide now available	May 1	42
kit Macintosh graphics and HP ThinkJet	July 1	29	advantages	Oct 1	24	image/1000-II enhanced	May 1	
printer	July 1	29	New Vectra PC high resolution			Product Line 65 simplification continues	May 1	47
New HP ThinkJet printer cable numbers for Apple computers	July 1	30	monitors Ordering a Vectra PC System	Oct 1 Oct 1		Low volume E/F-Series I/O cards	ivicay I	74
Using the HP 7550A in a local area	outy I	50	Comprehensive marketing programs			obsolete	May 1	44
network P:Page™ 4000 pow available on HP	July 1	30	for the Vectra PC	Oct 1		Two new emulators available for HP 64000 system	May 1	45
R:Base™ 4000 now available on HP Touchscreen personal computers	July 15	16	Vectra PC introductory ad campaign Sales aids for the Vectra PC	Oct 1 Oct 1		HP 64000 Plus ad campaign	May 1	
ExecuDesk supported applications	July 15		Vectra PC customer support services Listed ISV program update	Oct 1	30	New server and cables enhance SRM system	May 1	46
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HP-UX 5.0 now available for HP		40	"Introduction to RTE" a new course			HP-UX applications support		
9000 Series 500 ME solutions on the HP 98700H	May 1	46	for HP 1000 general users	Jun 15	20	international keyboards	May 15	
Graphics Display Station	May 1	17	New HP 1000 ordering guide with	lean 4.5	00	TK! Solver book now available	May 15	, 2
HP-HIL input devices for the HP	iviay i	41	additional configuration aids	Jun 15	20	VisiCalc for HP 9000 Series 200		
98700H Graphics System	May 1	47	Correction to HP 1000 System Designer's Guide	. Jul 1	21	obsolescence	May 15	, 2
HP Draft's new links open the door to	Wildy 1	٠,	HP 1000 Ordering Guide correction	. Jul 1		New HP 9000 Series 500	14-114F	
other CAD systems	May 1	48	New low cost A-Series Synchronous	Juli	31	application briefs	May 15	, 2
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MBA disc-replacement program			MemoMaker compatible with			CONDOR 3 free update program		
explained	May 1	20	HP 150/Touchscreen personal	L = 45		ends October 1	Aug 1	29
New Personal Productivity Center		•	computers Graphics Gallery products shipping	Jun 15	15	New HP 7510 color film recorder for	A 1	20
release Introducing HP Access and HP	May 1	29	by the thousands	Jun 15	17	presentation graphics HP Transform/3000 wins \$1.2	Aug 1	30
Access Central	May 1	30	Drawing Gallery software RAM	2411 13	• •	million deal	Aug 15	9
Announcing Print Central products	May 1		requirement	Jun 15	17	Selling HP solutions turns personal	-0 -	
Introducing HP Word/150	May 1		HP Touchscreen II personal			computer into PPC account	Aug 15	10
New enhanced PPC system bundles			computer and IBM terminal	l 4 C		HP Touchscreen personal computer		
and software packs	May 1		emulation New HP Touchscreen II personal	Jun 15	17	software savings	Aug 15	25
Old PPC bundles obsolete "PPC Inputs" will answer your	May 1	33	computer ad	Jun 15	17	How to spool plots or printouts with Drawing Gallery	Aug 15	25
questions	May 1	33	New data tablets not supported on	541115		Dust cover and carrying case for the	/ dg 15	20
Selling HP word processing	May 1		AutoCAD	Jun 15	18	Touchscreen II personal computer		
Introducing the new Touchscreen	•		Lotus™ 1-2-3™ media replacement			available	Aug 15	27
Technical products	May 1	49	procedure	Jun 15	19	The Custom Solutions Program for		
Bringing the best together: Dupont		_	HP Touchscreen It personal computer supported as new HP			the HP Portable PLUS Bulletin board for HP Portable PLUS	Sep 1	16
and The Portable MicroSpoolers eliminate the wait	May 15		3000 Series 68 console	Jul 1	1.3	software developers	Sep 1	16
Security modem prevents	May 15	15	New version of HP Message for	501		HP Touchscreen II to replace	оер і	10
unauthorized access to computers	May 15	16	ExecuDesk customers	Jui 1	15	Touchscreen personal computer	Sep 1	17
New security kits help prevent theft	May 15		New office solutions video			Tape backup for HP Touchscreen		
Seminar Kit for Personal Productivity			presentations	Jul 1	16	personal computers	Sep 1	18
Center	May 15	21	Effect of system volume pricing on PPC bundles	Jul 1	16	Introducing Painter for the HP	Sen 1	10
Videotape of PPC demo now available	May 1F	22	Updated Personal Productivity	Juli	10	Touchscreen personal computer Presentation graphics seminar	Sep 1	19
	May 15	44	Center flyer	Jul 1	17	available	Sep 1	20
			Introducing The Portable PLUS	feel 4 3				

	Issue	Pg		Issue	Pg		Issue	Pg
EtherLink hardware and software			Executive Card Manager and			Low volume E/F Series I/O cards		
now two separate products	Sep 1	20	ECM:Templates for the Vectra PC	Oct 1	35	obsolete	May 1	44
Supplement to HP 150 Technical	C 1	00	Executive Spreadsheet provides			New media options available for	N. 1 4	
Reference Manual available	Sep 1		power for management decision	0-44	٥٢	ATS/1000 software updates	May 1	50
New color monitor available	Sep 1	38	making	Oct 1	35	GE automates testing of rotating		
Update on the HP Touchscreen personal computer software			Introducing AdvanceLink 2392 for HP Vectra PC and IBM PC/XT/AT	Oct 1	36	electrical machinery using HP 3054C	May 15	: =
	Sep 15	7	Introducing R:BASE 5000 for HP	OCL	30	HP Grenoble offers maintenance	ividy 13	. 0
promotion program Personal computer users in 3000	Sep 15	,	Vectra and Touchscreen personal			training	May 15	. 11
accounts can now receive			computers	Oct 1	27	HP 1000 A900 firmware update to	way 15	, , ,
contractual software support	Sep 15	15	New HP-HIL/384 Kbyte RAM	OCT	3,	fix SQRT problem	May 15	: 25
ISV program for personal computers	Sep 15	13	accessory board for HP 150/			A-Series gives power and flexibility	Way	, 23
reassigned	Sep 15	17	Touchscreen personal computers	Oct 1	38	to ATS/1000	May 15	36
Demo disc for the Portable PLUS	Sep 15		Introducing Symphony for the HP			Armco Steel Company turns to	a,	
HP makes grants of The Portable to			Touchscreen personal computer	Oct 1	38	HP 2250	Jun 1	9
university, medical programs	Sep 15	17	HP 150 Touchscreen II one-year			Remarketed HP 1000 E/F Series		
HP 150 A/B trade-in program			warranty	Oct 1	39	sales promotion	Jun 1	14
extended and expanded	Sep 15	18	HP enters the videotex market	Oct 1		Speech Output Module to be		
Executive Card Manager supports			HP's strategic business			obsolete	Jun 1	21
the mouse	Sep 15	19	relationships with ISVs	Oct 1	41	HP 1000 memory credit		
Easy file conversion from Personal			High-capacity 51/4-inch media			discontinuance	Jun 1	30
Card File to Executive Card			available	Oct 1	42	Data acquisition product training	Jun 1	37
Manager	Sep 15	19	One year floppy disc warranty	Oct 1	42	"Introduction to RTE": a new course		
ECM: Templates is an effective			Application software for the HP			for HP 1000 general users	Jun 15	20
"total solution" demo tool	Sep 15	19	OfficeShare Network	Oct 15	16	New HP 1000 ordering guide with		
Executive MemoMaker and			New book explains the HP Portable	Oct 15	21	additional configuration aids	Jun 15	20
Graphics Gallery: a synergistic			HP Vectra PC receives highest IBM			HP 1000 A-Series LAN now		
solution	Sep 15	21	PC AT compatibility rating	Oct 15	22	available for OEM development	Jul 1	- 5
New HP LaserJet printer drivers for			More industry-standard products			New HP 1000 A-Series VAR/OEM		
MultiMate and MS Word on the HP			tested on the HP Vectra PC	Oct 15	22	recruitment ad	Jul 1	- 7
Touchscreen personal computer	Sep 15	21	New keyboard park for the HP			Correction to HP 1000 System		
Analytical solutions for the HP			Vectra PC	Oct 15		Designer's Guide	Jul 1	
Touchscreeen MAX personal	_		HP Access for the Vectra PC on CPL	Oct 15	23	HP 1000 Ordering Guide correction	Jul 1	
computer	Sep 15	34	HP FastTrak for personal software			Process control training tour	Jul 15	i 17
GCO new supplier for HP 9122D			product support training	Oct 15	23	New low cost A-Series Synchronous		
and 9133D	Sep 15	10				Multiplexer	Jul 15	
Sales Force Automation identified as		_	HP 260			Micro 26 value packs add memory	Jul 15	
strategic market	Oct 1	5	HP 260 introduction a success	May 15	19	Ordering guide correction	Jul 15	, 5
AdvanceWrite word processing for	0-4-1		HP 260 cabling corrections	Jun 1		New HP 1000 A-Series VAR/OEM	h	
the HP Vectra PC	Oct 1	14	HP Reference Service updated	Jul 1	6	recruitment brochure	Aug 1	' '
Introducing HP OfficeShare Network			HP 250 application software			Hardware support price changes	huo 1	
for HP Vectra, Touchscreen, and IBM personal computers	Oct 1	15	obsolescence	Jul 15	10	effective August 1 August 1 computer support price	Aug 1	. 10
Print Central for the HP Vectra PC	OCT	13	Obsoleting the HP 250 SPU	Jul 15	10	changes	Aug 1	. 11
and IBM PC/XT/AT	Oct 1	10	HP 260 poster available	Aug 1	19	IMAGE/1000-II customer course	Aug i	
PPC Professional Pack/Touchscreen	000	13	The entry-level HP 260 offers more			revised	Aug 1	1 12
now includes Executive Card			mass storage for less	Aug 15	16	Use the new users group field	Aug i	12
Manager	Oct 1	19	Financing available for HP 260			training manual to increase sales	Aug 1	1 12
Tailor a perfect fit with the new HP	00. 1		hardware	Aug 15	16	New Interex membership brochures	Aug 1	
Vectra PC	Oct 1	22	Announcing the Fast Track/260			Micro/26 promotion begins August 1	Aug 1	
HP Vectra PC proven compatible			program	Sep 1		HP 1000 Model 29 XP limited-time	,	
with IBM PC AT	Oct 1	23	PCDO distributes the HP 260	Sep 1		discount	Aug 1	1 16
Wide range of data storage devices			New workstation for the HP 260	Sep 15	8	Enhancements to F/1000 for RTE-A	Aug 1	
for Vectra PC	Oct 1	23	Obsoleting the HP 45262D	Con 1E	a	HP AdvanceNet literature for the	-	
Numeric co-processor increases			workstation	Sep 15	0	HP 1000	Aug 1	1 31
Vectra PC's performance	Oct 1	24	The HP 260 provides a variety of solutions	Con 1E	o	HP 1000 A-Series availability	_	
Selling the Vectra PC's video			New HP 260 sales literature	Sep 15 Sep 15		improved	Aug 1	1 31
advantages	Oct 1	24	New ad for small, growing	sep is	9	Newest line printers support older		
New Vectra PC high resolution			manufacturers	Sep 15	24	HP systems	Aug 1	1 41
monitors	Oct 1	25	Software support for the HP 250 and	Sep 15	24	Laboratory MicroSystems and HP		
Ordering a Vectra PC System	Oct 1	25	HP 260	Oct 15	16	team up for success	Aug 15	5 11
Comprehensive marketing			TIF 200	OCI 13	10	Auto-dial DS/1000 using QTD		
programs for the Vectra PC	Oct 1	26	110.4000			modem	Aug 15	5 12
Vectra PC introductory ad campaign	Oct 1		HP 1000			New features of QDM/1000 August		
Sales aids for the Vectra PC	Oct 1		New HP 1000 A-Series I/O Extender			release	Aug 15	5 30
Vectra PC computer support series	Oct 1		now available	May 1	41	Application note shows how PMC/		
Listed ISV program update	Oct 1	31	HP 1000 A-Series tall cabinet			1000 can use programmable		
			improved	May 1	42	controllers as front ends	Aug 15	5 32
Graphics Gallery/Vectra: Statement		32	All HP 1000 tall cabinets are not			GWHIZ and SAPPHIRE: two new A-		
Graphics Gallery/Vectra: Statement of direction	Oct 1	52					Aug 16	ふつ(
Graphics Gallery/Vectra: Statement of direction Announcing TextCharts for the			alike	May 1	42	Series demos	Aug 15	J 2.
Graphics Gallery/Vectra: Statement of direction Announcing TextCharts for the Vectra PC	Oct 1 Oct 1		New HP 1000 System Designer's	-		PCIF releases handlers for new	Aug It	
Graphics Gallery/Vectra: Statement of direction Announcing TextCharts for the Vectra PC The Executive Series for HP Vectra	Oct 1	32	New HP 1000 System Designer's Guide now available	May 1	42	PCIF releases handlers for new brands of programmable		
Graphics Gallery/Vectra: Statement of direction Announcing TextCharts for the Vectra PC The Executive Series for HP Vectra and IBM personal computers		32	New HP 1000 System Designer's Guide now available Image/1000-II enhanced	-	42	PCIF releases handlers for new brands of programmable controllers	Aug 15	
Graphics Gallery/Vectra: Statement of direction Announcing TextCharts for the Vectra PC The Executive Series for HP Vectra	Oct 1	32 33	New HP 1000 System Designer's Guide now available	May 1	42 43	PCIF releases handlers for new brands of programmable		5 31

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HP 1000 system designers guide			New HP INVISION brochure			Support Link II modem provided		
subscription service	Aug 15	32	available	May 1	36	with HP 3000 Series 37 software		
Micro 29 supports wide variety of			Series 68 sales continue to increase	May 15	8	support	Jul 1	7
devices	Aug 15	32	Leverage 3000 upgrade program			More time for eligible HP 3000		
Only one 12979C+001 I/O Extender			update	May 15	13	customers to obtain the MPE V/E		
per SPU	Aug 15	32	110 and 150 baud removed from			firmware at no charge	Jul 1	
A-Series promotions gain			ATP	May 15	19	1985 HP 3000 MIT availabilities	Jul 1	10
momentum	Sep 1		HP Rapid/3000 update — for now			HP 3000 media products		
New features for PMC/1000	Sep 1	24	and the future	May 15	19	restructured	Jul 1	
Series A900 memory card price			New enhancements to HP Rapid/		00	HP-IB extender support expanded	Jul 1	11
reduction	Sep 1		3000	May 15	20	Aggressive HP 3000 Series 37		
QDM/1000 sales aids	Sep 1		New HP Rapid/3000 customer		00	software pricing	Jul 1	12
Move up to an HP 7907A disc drive	Sep 1	30	training courses	May 15	20	New prices for HP 300 to HP 3000	Jul 1	4.0
Approved Micro/26 promotion	Con 1	6	HP TurbolMAGE/3000 articles	May 15	2+	upgrades	Juli	12
substitution	Sep 1	0	appearing in The Chronicle HP Copycat/3000 poster available	May 15 May 15		Price reduction on remarketed HP 3000 Series III, 30 and 33		
Speech Output Module	Sep 1	16	Seminar Kit for Personal Productivity	Iviay 15	21	accessories	Jul 1	12
obsolescence reminder	Sep 1	10	Center	May 15	21	HP Touchscreen II personal	Juli	13
Manufacturing telecourse set for	Sep 1	22	Videotape of PPC demo now	May 15	21	computer supported as new		
October 8 MONITROL/200 for work cell control	sep i	22	available	May 15	22	HP 3000 Series 68 console	Jul 1	12
at Monsanto	Sep 1	24	An update on HP Telex II	May 15		Announcing HP Map/3000	Jul 1	
New ad for small, growing	Sep i	24	ATPs preferred connection for	IVIAY 15	22	New office solutions video	Jui	14
manufacturers	Sep 1	24	personal computers	May 15	23	presentations	Jul 1	16
Supported configurations for A-	Jep i	24	HP 3000 commercial VAR	Iviay 15	25	Effect of system volume pricing on	Jui	10
Series and peripherals cabinets	Sep 1	26	conference almost here	Jun 1	B	PPC bundles	hul 1	16
PSI Firmware Development Package	Sep i	23	McDonnell Douglas improves	Juli	Ų	Updated Personal Productivity	Jui	10
lacks terminal support	Sep 1	25	Maintenance Productivity with HP			Center flyer	Jul 1	17
Cable option for HP 1000 terminal	оср ,	20	Maintenance Management/3000	Jun 1	9	Introducing HP SFD I: easy to sell	oui ,	.,
interface to be obsoleted	Sep 15	26	Ordering the Advanced Terminal		Ū	and implement	Jul 1	18
New HP 1000/9000 interface	00p 10	-0	Processor on HP 3000 computers	Jun 1	15	New manual set complements	oui i	10
products specification guide	Sep 15	26	Memory credit reductions	Jun 1		HP SFD I	Jul 1	19
Changes in the A-Series promotions	Oct 1		Introducing Silhouette/3000	Jun 1		Price list changes for HP Distribution	00.	
HP 3852S introduction activities	Oct 1		Silhouette/3000 can help you make			management products	Jul 1	19
PC software support can now be			quota	Jun 1	17	HP INVISION price reduction	Jul 1	
added to HP 1000 and HP 9000			HP and Carolian Systems cooperate			Colorful, new promotional campaign		
contracts	Oct 15	9	to bring Silhouette/3000 to your			for HP Healthcare Information		
Process industries training tour			customer	Jun 1	18	System	Jul 1	37
workbook available	Oct 15	27	New course on designing and			Michigan State University selects		
"Solutions for Process Industries"			optimizing HP 3000 applications	Jun 1	18	HP Maintenance Management	Jul 15	8
brochure pack now available	Oct 15	28	HP LaserJet printer support on			HP 3000 Series 40/44/64 orders to		
New A-Series OEM flyer available	Oct 15	28	HP Word V	Jun 1	19	end October 1	Jul 15	10
HP to exhibit products at			New sales training class for HP			HP Word and HP LaserJet printer		
AUTOTESTCON 85	Oct 15	30	Distribution Management			font cartridges	Jul 15	
			products	Jun 1		Introducing HP Financial Budgeting	Jul 15	13
HP 3000			IRO customer training schedule	Jun 1	21	Special offer on HP financial		
HP Transform/3000 wins over IBM			Speech Output Module to be			software	Jul 15	14
account again	May 1	7	obsolete	Jun 1	21	New pricing for Distribution		
HP Transform/3000 means sales	•		HP 3000/Growth Power brochure	1	00	Management products' rights-to-		
opportunities	May 1	8	now available	Jun 1	29	copy	Jul 15	14
Leverage 3000 upgrade program	May 1		HP Maintenance Management	1	00	Other CPL changes for Distribution		
HP 7914CT supported on HP 3000	May 1	25	Success	Jun 1	29	Management products	Jul 15	
HP 9144 and 7945A supported	-		Synchronous modem ordering	lun 1	20	Process control training tour	Jul 15	17
across HP 3000 line	May 1	25	options changed New value-added supplier	Jun 1	39	HP-IB extenders contribute to printer sales	Jul 15	20
Pricing for the HP 3000			brochures	Jun 15	7	New HP 3000 value-added supplier	Julio	29
Performance Analysis and			New Icebreaker Plus promotion	Jun 15		recruitment ad campaign	Aug 1	6
Capacity Planning products	May 1	26	HP AdvanceNet presentation slides	Juli 13	10	Hardware support price changes	Aug	O
HP FORTRAN 77/3000 released	May 1	27	and script available	Jun 15	12	effective August 1	Aug 1	10
New Personal Productivity Center			Correction to the PPC Field Training	Juli 10	12	August 1 computer support price	Aug	10
release	May 1	29	Manual	Jun 15	12	changes	Aug 1	11
Introducing HP Access and			New Financial Management	ouii io	12	Use the new users group field	Adg	
HP Access Central	May 1		Systems poster available	Jun 15	13	training manual to increase sales	Aug 1	12
Announcing Print Central products	May 1	31	Updated Product Evaluation Guide	00.7.70		New Interex membership brochures	Aug 1	
New enhanced PPC system bundles			now available	Jun 15	13	MEGABYTES PLUS: expanded	9	. •
and software packs	May 1		Direct mail program to distributors		. •	upgrade program for HP 3000		
Old PPC bundles obsolete	May 1	33	underway	Jun 15	13	disc drives	Aug 1	18
"PPC Inputs" will answer your			Over 165 HP systems in installed			20,000 HP 3000s installed	Aug 1	
questions Solling UR word processing	May 1		base for Healthcare Information			New HP 3000 Series 58 and		-
Selling HP word processing	May 1	34	Systems	Jun 15	23	enhanced Series 42	Aug 1	20
HP Slate now works with HP 2392A	M4	05	Software volume discounting			Why the new HP 3000 Series 58 is		
terminal Using reference sites for HP	May 1	30	simplified and enhanced	Jul 1	5	so fast	Aug 1	20
Gaing reference sites for FP			HP Remarketed Products Price List			How to get HP 3000 Series 58	-	
	May 1	36				TION to get III 3000 Series 30		
financials Remote printers for HP 3000	May 1 May 1		now available HP Reference Service updated	Jul 1 Jul 1	5 6	power to your customers	Aug 1	21

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Announcing HP 3000 Series 42XP		_	Dust gasket available for HP 9000			HP EGS ad leads to successful sale	Sep 1	9
and Series 58 support	Aug 1	22	Model 236A	May 15	28	Introducing the SPN/ENHANSYS		
Price change for HP 3000 Series 39	Aug 1	23	New HP Memory Test System			engineering solution	Sep 1	23
HP 3000 hardware organization		00	provides high accuracy under	1445	00	HP 9000 Series 300 HP 2392A/	04	- 00
video available Executive Card Manager and	Aug 1	23	modular program control Diagraph now available for the	May 15	29	VT 100 terminal emulator New data storage for engineering	Sep 1	26
HP Access	Aug 1	23	HP 9000 Series 200 workstations	Jun 1	32	workstations	Sep 1	26
Updated PPC Product Information	/ tog !	20	Electrical Engineering applications	oui, i	02	Move up to an HP 7907A disc drive	Sep 1	
Guide	Aug 1	23	for HP 9000 Series 200 Basic 3.0	Jun 1	33	New color monitor available	Sep 1	
New Financial Management	•		New version of HP 9000 Series 500			MONITROL/200 for work cell control		
Systems literature portfolio	Aug 1	24	HP-IB Interface released	Jun 1	33	at Monsanto	Sep 15	, 24
New Financial Management	A 4	0.4	HP 9000 Series 500 Configuration	li in d	22	New HP 1000/9000 interface	0 45	
Systems ad campaign Distribution products ad campaign	Aug 1 Aug 1		Guide now available Obsolescence of HP 9000 Model	Jun 1	33	products specification guide Big changes in HP 9000 Series 500	Sep 15 Sep 15	
HP MM-ASSIST and PM-ASSIST:	Aug I	23	530 and 540	Jun 1	34	New special keyboard for HP 9000	Sep 13	, 20
new and improved	Aug 1	30	HP EGS users groups forming	Jun 1		Series 200	Sep 15	28
New HP 7510 color film recorder for			Graphics Digitizer service and			Over 1,500 applications for RM/	•	
presentation graphics	Aug 1	38	training manual now available	Jun 1	35	COBOL on HP 9000 Series 200/		
Newest line printers support older			New Design Systems Group			500	Sep 15	29
HP systems	Aug 1	41	brochure	Jun 1 Jun 1		New HP 9000 Series 300 videotapes	Con 1E	: 20
HP 3000 Series 37 plays in European Basketball			Data acquisition product training New special HP 9915 upgrade kit	Jun 15		Software packs formerly supported	Sep 15	29
Championship	Aug 15	7	New HP 9836 option available	Jun 15		by FEO move to HP Plus	Sep 15	29
HP Transform/3000 wins \$1.2			HP 9000 Model 550 sales aids	Jul 1	32	FEO support policy for BASIC	,	
million deal	Aug 15	9	New HP 9000 Model 550			application software	Sep 15	30
Remarketed HP 3000 Series 44R			engineering design system video	1.1.4	00	FEO BASIC language software	0 45	
Icebreaker and Transform/3000 replaces IBM System/34	Aug 15	0	available Sales aids available for ME/CAE	Jul 1	32	going out of production HP EGS customer training course	Sep 15	30
Setting HP solutions turns personal	Aug 15	9	products	Jul 1	32	offered	Sep 15	31
computer into PPC account	Aug 15	10	Delete-manuals option for BASIC	04.1	- L	DARAD-200 data acquisition and	оср .о	
Announcing the Momentum sales	_		and Pascal	Jul 1	33	display system for HP 9000		
program	Aug 15	13	New FSD documentation numbering	Jul 1	33	Series 200	Sep 15	33
Maintenance Magic promotion			New HP 9000 Series 200			HP 9000 Series 200/300		
offers bundled maintenance management solution	Aug 15	13	communications tool for unattended measurement	Jul 1	34	information for OEMs and independent hardware vendors	Oct 1	48
Discounted HP 3000 Series 37	/lug !o		More dates set for Data Acquisition	00, 1	0.	Demo software for the 98700H/	000	70
software from MPD and APD	Aug 15	14	Product Fundamentals class	Jui 1	35	HP 9000 Model 550	Oct 1	48
Introducing the HP 3000 Series 68C	Aug 15		Analytical Multi-Instrument			HP 97060A/T graphic subsystem		
New add-on memory for the			Workstation introduced	Jul 1		prices reduced October 1	Oct 1	48
HP 3000 Series 68	Aug 15	17	Introducing the HP 9000 Series 300	Jul 15	19	PC software support can now be		
HP 3000 return credits will be changing on November 1	Aug 15	18	HP 9000 Series 300 compatibility mode software available	Jul 15	21	added to HP 1000 and HP 9000 contracts	Oct 15	
Return credit for HP 3000 Series 64/	Aug 15	.0	HP BASIC 4.0 compatibility	Jul 15		HP-UX Running Start — 100	00013	, 3
68 memory	Aug 15	19	Pascal for the HP 9000 Series 300	Jul 15		applications for HP-UX 5.1	Oct 15	29
			HP 9000 Series 200 and Series 300			CSUB upgrades now available from		
HP 9000			added to IEEE 802.3 LAN	Jul 15	22	FSD	Oct 15	29
New server and cables enhance			HP 9000 Series 300 lowers HP EGS system cost	Jul 15	23	New ordering procedures for upgrade kits	Oct 15	: 20
SRM system	May 1	46	New sales tools for HP EGS	Jul 15		Operating system support services	00010	, 23
HP-UX 50 now available for			SRM installation videotape now	00.70	- '	reminder	Oct 15	29
HP 9000 Series 500 ME solutions on the HP 98700H	May 1	46	available	Jul 15	25			
Graphics Display Station	May 1	47	LAN link for HP 9000 Series 500	Jul 15	25	HP INTEGRAL PC		
HP-HIL input devices for the			Existing drawings find a home with HP EGS	1.145	0.4	New high-performance, low-cost		
HP 98700H Graphics System	May 1	47	Powerful TECAP software reduces	Jul 15	24	data acquisition system for the		
HP Draft's new links open the door to			semiconductor design time	Jul 15	26	Integral PC The HP Integral PC now on the A-50	May 1	49
other CAD Systems TOM Software applications no	May 1	48	Hardware support price changes			contract	May 15	18
longer available for HP-UX	May 1	48	effective August 1	Aug 1	10	HP Integral PC adds new dimension	11109 10	,,,
HP Draft capabilities improve	way .	,,,	August 1 computer support price	Aug 1		to biotechnology lab	May 15	38
productivity and design for large			changes New 6-channel modem multiplexer	Aug 1	11	New 1M byte memory module for HP		
equipment manufacturer	May 15	7	for HP 9000 Series 500	Aug 1	36	Integral PC	Jun 1	27
HP Draft pre- and post-processor			Running Start: 106 software packs			Bus expander now available for HP Integral PC	Jun 1	27
optimizes design and drafting applications	May 15	26	for HP 9000 Series 300	Aug 15	33	Modem for HP Integral PC now	Juli	21
New HPL-to-BASIC translator now	Way 13	20	HP 9000 Series 300 hardware		00	available	Jun 1	28
available	May 15	27	documentation HPL-Plus announced for HP 9000	Aug 15	- 33	HP Integral PC used as		
HP-UX applications support	•		Series 200	Aug 15	34	transportable test system for large		
international keyboards	May 15		CADAM for the HP 9000	riug 10	J-7	utility company	Jun 15	- 8
TK!Solver book now available	May 15	27	workstations	Aug 15	34	Improved HP-UX Technical BASIC for HP Integral PC	Jun 15	. 91
VisiCalc for HP 9000 Series 200 obsolescence	May 15	27	HP 9000 user groups	Aug 15		HP Integral PC sales leveraged with	Juli 13	- 21
New HP 9000 Series 500	iviay 13	21	HP 9000 contributed software	A. 4-	•	third-party software	Jun 15	22
application briefs	May 15	28	library HP 9000 Series 200/300 MUX	Aug 15	34	HP Integral PC - VT100 sales kit		
Memory price changes for HP 9000			available	Aug 15	36	available	Jun 15	
Series 200	May 15	28	UNIX Expo '85 — a new selling tool	Sen 1		HP Reference Service updated	Jul 1	6

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International versions of HP Integral	Jul 1	25	MASS STORAGE			Prices lowered on HP 7908 disc	445	0.7
PC Bus Expander now available BCD interface for HP Integral PC	Juli	25	New mass storage alternative for			drives	Aug 15	3/
now available	Jul 1	34	HP 1000 and HP 9000 systems	May 1		New and refurbished obsolete disc drives available	Aug 15	38
HP Integral PC delete option	•	•	Positioning the HP 7907A System support on the new	May 1	38	Obsolescence of HP 9895A and	Adg 10	00
available	Aug 1	26	HP 7907A	May 1	40	9876A announced	Aug 15	38
New HP-IB interface card for the HP			Ordering information for the	way i	40	HP 7914TD to end production	Aug 15	
Integral PC	Sep 1	17	HP 7907A	May 1	40	Request for information on third-		
			Sales aids and promotions for the			party mass storage competition	Aug 15	39
HP 64000			HP 7907A	May 1	40	The Megabyte Express program	_	
Two new emulators available for the			HP 7945A Express Service program			expanded	Sep 1	11
HP 64000 system	May 1	45	delayed	May 15	40	HP data storage solutions for IBM	Con 1	0.4
HP 64000 Plus ad campaign	May 1	45	DMD needs information about third			PCs New warranty program for	Sep 1	21
New emulators for HP 64000			parties	May 15		peripherals	Sep 1	28
Development System	Jun 1	31	How to transport 794X disc drives Self-paced Mentored Training	May 15	41	Move up to an HP 7907A disc drive	Sep 1	
DesignCenter magazine for HP 64000 users	Jun 1	20	update	Jun 1	11	New mass storage for HP 9825 and	оор .	-
New emulator subsystems for	Juli	32	Video-enhanced peripheral	04111		9845 owners	Sep 1	31
HP 64000 Logic Development			prestudy kits available	Jun 1	12	New data storage for engineering		
System	Aug 1	32	Personal data storage support			workstations	Sep 1	26
New Microprogram Development	0		matrix	Jun 1	39	Clarification of MEGABYTES PLUS:		_
Subsystem for HP 64000 Logic			Refurbished 9121DR disc drives			The Great Half Off Sale promotion	Sep 15	/
Development System	Aug 1	33	available	Jun 1	40	Positioning the new HP 9142A tape drive with the HP 9144A	Sep 15	26
New Microprogram Development			HP 7925 Option 606 and 620 credit	l •	40	US list prices for HP 7978/74 tape	Sep 13	33
Subsystem for HP 64000 Logic			reductions	Jun 1	40	drives adjusted for freight	Sep 15	36
Development System	Sep 15	27	GCO new supplier for HP 7045A disc drive	Jun 1	40	GCO new supplier for HP 9122D	оср то	00
			Remarketed peripherals sales	Juli	40	and 9133D	Sep 15	36
NETWORKS			promotion	Jun 15	11	Incomplete "MARK FOR" can hold	•	
Upgrades to AdvanceNet LAN for			20.5-Mbyte removable disc	Jul. 70		up shipment of tape drives	Sep 15	36
HP 9000 Series 500	May 15	40	cartridge available	Jun 15	24	HP 7920/25 discontinuance update	Sep 15	37
Synchronous modern ordering	li m 4	20	HP 7920/7925 disc products to end			All Megabytes Plus promotions		
options changed	Jun 1 Jul 1		production	Jun 15		apply to HP 7978B	Oct 1	11
RND manuals to be updated HP 2334A MULTIMUX applications	Jui	30	HP 7914TD discontinued	Jun 15	25	More tools for your Megabytes Plus tool box	Oct 1	5 2
brief available	Jul 15	27	HP data-storage solutions for IBM	Lat 4	0.7	Design enhancements for HP 7978B	Oct 1	
Auto-dial DS/1000 using QTD	• • • • •		PCs HP 7914CT: HP's new disc/tape	Jul 1	27	HP 7978A to be removed from CPL	Oct 1	
modem	Aug 15	12	subsystem	Jul 1	38	HP 7978B mailing to the field	Oct 1	
HP 9000 Series 200/300 MUX	_		Clarification on HP 7920/7925	Juli	30	HP 7970 discontinuance reminder	Oct 1	
available	Aug 15	36	discontinuance	Jul 1	39	MEGABYTES PLUS: "Movin' on Up"		
HP 37212A Modem gains greater			Self-Paced Mentored (SMT) Training			trade-in program extender	Oct 15	
world acceptance	Aug 15	36	schedule for 1985	Jul 15	9	HP 7908 end-of-production sale	Oct 15	12
Networking teleclass — new method	Aug 15	27	Remarketed HP 7925 disc drives			Trade up to HP 9153A and 9133H	0-445	
of sales rep training HP SNA IMF and IMF performance	Aug 15	31	still available	Jul 15	27	disc drives HP 7906 disc product to end	Oct 15	13
enhanced	Sep 1	28	High-quality media improves	lul 4.5	20	production	Oct 15	13
New cable for HP 2334A STAT MUX	Sep 1		HP 7974/7978 performance Customer notification of HP 7970	Jul 15	28	production:	00110	10
HP LaserJet PLUS printer is not			discontinuance	Jul 15	28	PLOTTERS		
supported on the 3Com			Hardware support price changes	00110		HP launches new plotter ad		
EtherSeries LAN	Sep 15	35	effective August 1	Aug 1	10	campaign	May 1	24
Free DS/3000 to NS/3000 upgrade	0.14	4.0	August 1 computer support price	•		Connecting SDD products to HP	way	
ends soon Introducing HP OfficeShare Network	Oct 1	13	changes	Aug 1	11	instruments successfully	May 1	50
for HP Vectra, Touchscreen, and			MEGABYTES PLUS: The Great Half	_		Using the HP 7550 in a local area	,	
IBM personal computers	Oct 1	15	Off Sale	Aug 1	15	network	May 15	24
New customer training course for HP	000		MEGABYTES PLUS: disc drive	A., 1	1 5	New personal pen organizer		
OfficeShare Network	Oct 1	17	trade-in program All-new HP 7976A-to-7978A trade-	Aug 1	15	available	May 15	41
The OfficeShare Network			in program	Aug 1	17	Self-paced Mentored Training	1	
connection to the HP 3000	Oct 1	17	MEGABYTES PLUS: expanded	/lug i	.,	update HP 7580 drafting plotter	Jun 1 Jun 1	
New HP 3000 link to HP OfficeShare			upgrade program for HP 3000			New small-plotter competition from	Juni	40
Network now on CPL	Oct 1	18	disc drives	Aug 1	18	Epson	Jun 1	41
Announcing LAN for the HP 3000	0-44	40	Megabyte Express continues	Aug 1	36	HP 7550 replot buffer capabilities	Jun 1	
Series 37	Oct 1	18	HP Copycat/3000 60-day trial	Aug 1	37	HP Remarketed Products Price List		-
New price structure for HP-IBM network service products	Oct 1	52	HP's 10-Mbyte micro-Winchester			now available	Jul 1	5
More modem ports for the HP 3000	OCL	32	mechanism in the OEM market	Aug 1		Using the HP 7550A in a local area		
Series 37 with the ATP/37M	Oct 15	14	Winning against System Industries	Aug 1	37	network	Jul 1	30
ATP37 price reduction	Oct 15		New videotapes on HP's IBM	Aug 1	20	Increase your sales by making the		
Application software for the HP			compatible data storage products MEGABYTES PLUS: "Movin' on Up"	Aug	30	HP-IBM connection	Jul 1	
OfficeShare Network	Oct 15	16	promotion	Aug 15	14	New sales literature for plotters	Jul 1	
Simplified option structure for			HP Copycat/3000 versus Tymlabs'			Drafting plotter ad schedule Self-Paced Mentored (SMT) Training	Jul 1	39
Network Service products	Oct 15	32	Backpack	Aug 15	20	schedule for 1985	Jul 15	q
Second networking teleclass	00115	20	HPL-Plus announced for HP 9000	•		Hardware support price changes	551 15	J
scheduled for November 12 New materials for networking	Oct 15	32	Series 200	Aug 15	34	effective August 1	Aug 1	10
customer seminars	Oct 15	32	MEGABYTES PLUS package in the			-	-	
	231,0	~-	mail	Aug 15	3/			

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August 1 computer support price changes	Aug 1	11	Videotape on laser printer sales cycle available	Jun 15	25	Introducing the 92286K font cartridge	Sep 1	37
Plotter software support on HP	_		HP Remarketed Products Price List		_	HP 26096A Digital Camera System	•	
computers HP 758X drafting plotter data sheet	Aug 1	39	now available 13287A Thermal Print Mechanism	Jul 1	5	discontinued Customized HP 2688 printer makes	Sep 1	37
revised	Aug 15	39	removed from CPL	Jul 1	7	the sale	Sep 15	6
Free gift for your plotter success story	Aug 15	40	Reconditioned workstation equipment promotional discounts	Jul 1	ρ	HP ThinkJet printer "Back-to- School" promotion	Sep 15	6
Improving sales to a major account	Sep 1		HP-IB extender expanded	Jul 1		HP LaserJet printer family target	Sep 13	U
New warranty program for		00	HP 82906A: superior to the		07	markets	Sep 15	16
peripherals New HP 7510 color film recorder	Sep 1	28	HP 82905B printer New bar code and OCR A font	Jul 1	27	New HP LaserJet printer drivers for MultiMate and MS Word on the HP		
sales literature	Sep 1	31	cartridge for HP LaserJet printer	Jul 1		Touchscreen personal computer	Sep 15	21
Sales opportunities for HP 758X low-priced drafting plotters	Sep 1	31	Font cartridge price correction Replacement HP LaserJet printer	Jul 1	29	The HP ThinkJet printer compared to the competition	Sep 15	20
New supplies package for HP 758X	зер і	31	supplies available	Jul 1	29	HP LaserJet/LaserJet PLUS printer	Seh 13	20
drafting plotters	Sep 1	32	5-in-1 HP ThinkJet printer accessory	6.14	00	training package	Sep 15	
Revised HP 758X drafting plotter data sheet	Sep 1	32	kit Macintosh graphics and HP ThinkJet	Jul 1	29	HP LaserJet printer's price reduced HP LaserJet printer service training	Sep 15	37
Drafting plotter September ad	•		printer	Jul 1	29	video	Sep 15	38
schedule HP 7550 availability continues to	Sep 1	33	New HP ThinkJet printer cable numbers for Apple computers	Jul 1	30	Selling the HP 2563A printer on an IBM 3270	Sep 15	38
improve	Sep 1	33	Self-Paced Mentored (SMT) Training	Jui	30	Selling the HP 2689A laser printer in	Sep 15	30
Plotter demo discs available	Sep 1	33	schedule for 1985	Jul 15	9	major accounts	Sep 15	
HP 7090 Achiever Program extended	Sep 1	34	HP Word and HP LaserJet printer font cartridges	Jul 15	11	Printer products to be discontinued The HP LaserJet PLUS printer and	Sep 15	39
Saving money with the HP 7510	Oct 1	55	Organizer for HP LaserJet printer	00. 10	, ,	electronic forms	Oct 1	20
Graphics software for HP plotters ISV support for the HP 7510	Oct 1 Oct 1		font cartridges available New OCR ribbon available for	Jul 15	16	HP ThinkJet printer now has one	Oct 1	41
New stop design on plotters	Oct 1		HP 2934A printer	Jul 15	28	year warranty Centronics ThinkJet printer	OUL	4 1
HP 7090 receives I-R 100 award	Oct 1	56	HP-IB extenders contribute to printer		•	marketplace expands	Oct 1	41
DDINTEDO			sales Cost Justification Guide updated	Jul 15 Jul 15		HP 26804A laser print station discontinued	Oct 1	57
PRINTERS HP 2563A printer upgrade program	May 1	11	HP 2611A and HP 2619A line			HP 2674A printer obsolete	3011	01
Special discount for HP 293X	IVIQY I	• • •	printers discontinued	Aug 1	40	November 1	Oct 15	34
printers	May 1	12	Two new font cartridges for the HP LaserJet printer	Aug 1	40	HP 2601 and 2602 printers off CPL November 1	Oct 15	34
Free Printer Pack with HP ThinkJet printer	May 1	13	Newest line printers support older	_				
ThinkJet and LaserJet printers now			HP systems Positioning the HP 2689A laser	Aug 1	41	TERMINALS		
compatible with Macintosh New ThinkJet printer now offers RS-	May 1	21	printer	Aug 1	41	Update to FRD's "Six-Pac" special Self-paced Mentored Training	May 15	13
232-C interface	May 1	22	HP 2934A flyer sent to HP 2631 users	Aug 1	12	update	Jun 1	11
New font cartridges for LaserJet	Maria	00	Laser printing seminar kit	Aug	42	RS-232 versus RS-422 for terminal-	lum 4	40
printer LaserJet printer firmware update	May 1 May 1		distributed	Aug 1	42	to-system connections Non-HP terminals included in	Jun 1	42
New supplies for LaserJet printer	May 1	23	Selling HP solutions turns personal computer into PPC account	Aug 15	10	HP 264X Trade-In Program	Jun 15	10
New supplies for ThinkJet printer Choosing prospects for the	May 1	24	HP 2602 offers HP-IB printing			HP Remarketed Products Price List now available	Jul 1	5
HP 2689A is easy	May 1	28	solution for the office HP LaserJet printer competition	Aug 15 Aug 15		Reconditioned workstation	001 1	J
HP 2689A customer data needed	May 1		HP LaserJet printer screen-dump	Aug 13	20	equipment promotional discounts	Jul 1	8
Remote printers for HP 3000 How to figure usage into HP	May 1	35	utility for the IBM PC available	Aug 15		Introducing the HP 2393A graphics terminal	Jul 1	40
LaserJet printer support	May 15	12	New HP 2689A printer packages More HP 2689A laser printer	Aug 15	40	Introducing the HP 2394A data entry		
Leverage your HP LaserJet printer successes	May 15	14	competition	Aug 15	40	terminal Order HP 2393A and 2394A	Jul 1	41
Inkjet paper grows in availability	May 15		New complete bar code system available from third party	Aug 15	41	consignments now	Jul 1	
Cable linking HP ThinkJet printer to IBM PC available	May 15	1.4	New bar code application note	Aug 15		New monochrome monitor available Self-Paced Mentored (SMT) Training	Jul 1	43
How to find qualified leads for laser	May 15	14	HP teamwork provides Union			schedule for 1985	Jul 15	9
printers	May 15		College with the right equipment for the right price	Sep 1	10	Multipoint on the new HP 2394A		
Laser printer sales tools OEMs and HP ThinkJet printer make	May 15	42	New HP ThinkJet printer accessory	•		data entry terminal HP 2393A graphics terminal with a	Jul 15	29
a winning combination	Jun 1	8	kit available IHP 829058 printer obsolete	Sep 1	21	14-inch screen	Jul 15	30
Self-paced Mentored Training	lum 4	4.4	November 1	Sep 1	21	New sales literature for HP 2390	Jul 15	20
update Video-enhanced peripheral	Jun 1		New warranty program for	0 4	00	series terminals HP 2622A localized terminal	Julia	30
prestudy kits available	Jun 1		peripherals Introducing the HP LaserJet PLUS	Sep 1 Sep 1		discounts	Jul 15	31
HP 2687A price reduction New HP LaserJet printer font	Jun 1	19	HP LaserJet PLUS printer ordering			New display terminal brochure available	Jul 15	31
cartridge	Jun 1	25	information Downloadable fonts for the HP	Sep 1	35	Hardware support price changes		
New sheetfeeder triples capacity of	January of	25	LaserJet PLUS printer	Sep 1	35	effective August 1	Aug 1	10
HP LaserJet printer The HP LaserJet printer's first year	Jun 1 Jun 1		How to position the HP LaserJet	•		August 1 computer support price changes	Aug 1	11
Cables connect HP ThinkJet printer			PLUS printer with the original LaserJet printer	Sep 1	35	HP 2640 display terminal trade-in	_	
to Apple computers	Jun 1	26	introducing HP PCLPak	Sep 1		program	Aug 1	18

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HP 2625A and HP 2626A terminals			New sales literature for HP 2393A	Aug 15	42	Remarketed 264X terminals		
to be discontinued October 1	Aug 1	43	HP 264X trade-in program available			availability	Oct 1	58
HP 2393A graphics terminal for			in Europe	Sep 1	11	HP 2625A and 2626A terminals		
OEMs	Aug 1	43	Introducing the HP 2397A color			discontinued	Oct 1	58
FRD's reconditioned workstation	•		graphics terminal	Sep 1	37	HP 2623A graphics terminal off CPL	Oct 1	58
program update	Aug 15	15	Order HP 2397A consignments now	Sep 1		HP 2394A terminal sales exceed		
HP terminals are tops in DataPro			New color monitor available	Sep 1	38	forecast	Oct 1	34
survey	Aug 15	42	The difference between half duplex	•				
Selectable printing capability on the			or local echo	Sep 1	39			
HP 2394A	Aug 15	42	The new HP 2394A data entry					
		_	terminal wins again	Oct 1	57			

No one SFA solution is the same. Each must be customized to meet the needs of the sales force, the home or branch office systems, and the management information needed from the system. SFA solutions may include call reporting, electronic mail, customer databases, territory management reports, call scheduling, inventory checks, order processing, shelf-space reporting, expense reporting, proposal generation, presentation material, lead generation, and so on. There are four potential sources of solutions.

- 1) HP Sales and Service Productivity Networks (SSPN) Development Systems. The preferred HP SFA solution, based on the HP 3000, builds upon HP's office products strategy and leverages off HP Personal Productivity Center products including HPDesk and HPIMAGE. Office Systems Division (OSD) is working on solutions in this area and is expected to have products in the first half of FY87. For other accounts, the customer can use:
- 2) HP APC developed software
- 3) software purchased from value-added channels (formerly called third parties) (i.e. STI or Envoy), or
- 4) internally developed software where the customer customizes personal productivity products, using datacom products to tie into existing systems or developing applications from scratch.

Against the competition, HP has an advantage because we are willing to work with these companies to provide a workable solution set.

The enhanced Portable PLUS provides you with new winning tools for this important market. One, the new Portable PLUS contains a screen that is second to none in the truly portable environment. This screen provides a 200 percent improvement over the original LCD in the Portable PLUS in contrast and viewing angle. The new screen is clear and bright enough to use in presentation situations. If you lost a sale to an electroluminescent display (like Grid) last year, try again as you will see that the screen is no longer an issue. Secondly, expanded memory becomes the major benefit for this market with 512 Kbytes standard and the ability to expand up to 1.28 megabytes. If sales reps, for example, are using Executive Card Manager as the application to keep track of all their customers, they have the ability to carry an incredible amount of data with them on the road without lugging and loading discs. The ability to add ROM-based or EPROM-based applications and yet maintain high memory capacity enhances HP's ability to win the sale.

The new Portable PLUS is a winning combination playing to HP strengths in the relatively untapped but highly leveraged SFA market.

Need more information? Call Russ McBrien at the IS&N Sales Center at TELNET 1-559-5573 or 408-559-5573.

Customizing the Portable PLUS

Randy W. Salo/PCD

There are many ways in which the Portable PLUS can be customized to fit your customers' individual needs. The first, and simplest, method is configuration. There are numerous options available for the Portable PLUS, including memory, software, modems, and peripherals.

A second area of customization is custom software applications. These may consist of specific vertical software application packages purchased from a value-added-channel (formerly third party) software vendor or created by your customer using any of the many different programming languages available for the Portable PLUS. These software packages may be either disc or ROM based. If your customers would like to create their own custom ROM software packages, numerous possibilities exist. First, customers can contact an Independent Custom Consultant who has been trained on the Portable PLUS or they can create custom ROM software themselves, using utilities that are readily available.

One of the most powerful and easiest ways to further customize the Portable PLUS is to personalize its behavior. This can be done quite easily by creating special P.A.M. entries. These are the inverse video boxes displayed by P.A.M. to show which applications have been installed. The inverse video boxes presented by P.A.M. have been affectionately named "blobs."

These blobs aren't only for specifying which applications are available, they can also be used to conveniently perform common operations, such as backing-up your RAM disc or automatically bringing in a MemoMaker template for an interoffice memo. These are only two examples of what can be done with P.A.M. blobs. When you combine a P.A.M. entry with a batch file, the possibilities become practically unlimited. Some examples of this include automatically bringing in a variety of Lotus® 1-2-3® templates or performing some extended file-management functions.

An application note has been created to further discuss and provide examples of what can be done using P.A.M. blobs. It specifically highlights the use of templates and overlays with the more commonly used software applications. This application note is currently available and can be obtained by contacting Rhonda Rick at the Portable Computer Division and requesting the application note, "Personalizing the Portable PLUS" (literature P/N 5954-7197).

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MultiMate on the Portable PLUS

Mike Steed/PCD

MultiMate[®] is now available on the Portable PLUS as a ROM-based application. MultiMate is a page-oriented word processor based on the Wang word processor. Its editing and formatting features are very powerful, although the keyboard commands take a while to learn.

The Portable PLUS version of MultiMate is *not related to* the HP Touchscreen personal computer version, but rather is based directly on the IBM PC version. While it lacks the softkey menus of the Touchscreen version, it can more easily share files with an IBM PC because the IBM character set is used. The features are not exactly comparable to any particular IBM version; it shares some of the features of the current version (MultiMate Advantage) and some of the features of the previous version (3.30).

MultiMate on the Portable PLUS executes directly from ROM. This allows it to run in 152 Kbytes of memory, instead of 256 Kbytes or 384 Kbytes on the IBM PC or HP Touchscreen personal computer respectively. This also makes the program start almost instantly, and with your document on edisc, page changes are equally fast. MultiMate sells for \$495 US list; order P/N 45554K

MultiMate® is a registered trademark of Multimate International Corporation.

Executive Card Manager for the Portable PLUS

Janet Dobbs/PCD

Option 400.

Now available in ROM for the Portable PLUS is HP's most popular information-management program. Executive Card Manager works like a rotary card file, storing up to 64,000 cards per cardfile. You can design your own card format (with up to 255 lines of information per card) or choose one from over 20 available when you purchase Executive Card Manager: Templates (P/N 45441L).

This software product is the same Executive Card Manager product that runs on the HP Vectra PC and the HP Touchscreen personal computer. File-management capabilities include sorting, searching, telephone dialing (requires modem), report writing, file merging, and form-letter generation.

Executive Card Manager sells for \$295 US list; order P/N 45555K Option 400.

DESKTOP

HP EGA for the HP Vectra PC update

POD Product Marketing

Many of you have expressed an urgent need for an HP EGA solution for the HP Vectra PC. Unfortunately, we have encountered numerous difficulties in supplying the EGA product announced at the Vectra NPT. These problems have arisen because of the original design and difficulties with vendors and have resulted in multiple schedule delays. Therefore, we are planning a new EGA product (different from the one announced at the Vectra NPT) that will give your customers an HP EGA solution in the shortest possible time.

The new EGA schedule calls for placement on the June 1 Corporate Price List and volume product shipment. However, every attempt will be made to pull this schedule forward. The HP EGA solution consists of an EGA video card and new color monitor. Note: the EGA card will *not* work with the current ("Rodan", HP 35741A) color monitor, nor will the new monitor have a touch-screen bezel option.

We are investigating how to address those customers who purchased the current color monitor (HP 35741A) with the expectation that it would be supported on the HP EGA video card. Details of this program will be announced later.

Until the HP EGA solution appears, we refer customers with immediate EGA needs to the many value-added-channel (third-party) products which are available. In addition to the IBM components, we have tested and verified as compatible two EGA accessory cards:

- VEGA from Video-7
- EGA-Plus from Quadra

and two EGA monitors:

- Color 722 from Amdek
- HX-12E from Princeton

While we certainly regret the delay in bringing the HP EGA solution to you, we are sure your customers will feel it has been worth the wait.

Have customers contact HP for value-added-channel Vectra PC software

Marilyn Ruel/PSD

In the summary chart of the article entitled "New software makes HP LaserJet PLUS printer forms design easy and fast" (on page 12 of the February 15 issue of *Information Systems & Manufacturing News*), the author lists several value-added-channel (formerly third-party) software suppliers and their products for the HP Vectra PC. The chart also gives the suppliers' telephone numbers so that they can be contacted directly. MicroPro International and Lotus Development Corporation were two vendors that were listed in this article.

If your customers are interested in either of these packages, encourage them to contact HP directly. HP has entered into strategic partnerships with both Lotus and MicroPro as well as Microrim, Inc., and Multimate International. These four leading independent software vendors offer top ISV software for the HP Vectra PC and IBM PC AT compatibles that are tailored to meet the needs of our direct customers. Each product is fully supported by HP's comprehensive support network and qualifies for all major account and commercial discounts.

Value-added-channel software solutions for the HP Vectra PC offered by HP include:

Solution	P/N	US list price
1-2-3 [®] from Lotus [®]	68340F	\$495
Symphony [®] from Lotus [®]	68339F	695
R:BASE™ 5000	68336F	700
R:BASE™ 5000 Program Interface	68337F	395
WordStar®	68345F	350
WordStar® Professional	68346F	495
WordStar® 2000	68341F	495
WordStar® 2000 PLUS	68342F	595
MultiMate™	68338F	495
MultiMate™ Advantage	68343F	595

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 $R:BASE^{\tau M}$ is a US trademark of Microrim, Inc.

Wordstar® is a registered US trademark of MicroPro International.

MultiMate™ is a US trademark of MultiMate International, a subsidiary of Ashton-Tate Corp.

Lotus 1-2-3 Release 2.0 for the HP Touchscreen personal computer

Kathryn MacMurray/PSD

Many Hewlett-Packard customers have made requests for the new and enhanced version of 1-2-3® from Lotus® Development Corporation, for the HP Touchscreen personal computer family. As part of HP's continuing support for the Touchscreen personal computer, we are pleased to announce that HP will make this popular Lotus product available in late summer, 1986. At this time, HP will also announce how current users of 1-2-3 for the Touchscreen personal computer can upgrade to the new release of 1-2-3.

This latest release of 1-2-3, Release 2.0, was recently rated by InfoCorp as one of the "clear choices" for success in 1986. Release 2.0 has all the features and benefits of the original 1-2-3 product, including the familiar menudriven commands, yet offers many new enhancements over 1-2-3 Release 1A. One of the most important improvements, unique to the Touchscreen personal computer version, is the incorporation of a "Touch" interface. Users with the HP Touchscreen accessory will be able to make menu, file-name, and soft-key selections simply by touching the appropriate part of the screen.

Other important enhancements to 1-2-3 Release 2.0 are: a larger spreadsheet size, with 8,192 rows and 256 columns; an improved memory management system that allows for bigger, more complex spreadsheets; support of the Lotus/Intel/Microsoft Expanded Memory Specification, for access of up to four megabytes of random access memory (RAM); Intel 8087 co-processor support, enabling 1-2-3 to perform mathematical calculations more rapidly; 40 powerful new macro capabilities that can make tedious tasks easier; 39 new @ functions, including date and time format and string functions; data regression, for computing a line from a series of data points; a tutorial book that lets you practice using 1-2-3 at your own pace; a menu-driven install procedure with an extensive library of peripheral and other drivers, including all new HP peripherals; the ability to execute DOS commands without exiting 1-2-3; improved graphics features, such as the exploding pie chart and background and fill pattern options; database enhancements, including editing of records during queries and user-controlled alpha or numeric sorts; and context-sensitive help screens, so that only relevant information is presented on the screen.

For customers who already own 1-2-3 Release 1A or Symphony® (Release 1.0 or 1.1), 1-2-3 Release 2.0 will automatically read files created within these products. In

Personal Computers

addition, by using the Translate utility included with 1-2-3, Release 2.0 can read and write Jazz[®], dBASE™ II, and DIF files. This utility also allows you to convert Release 2.0 (.WK1) files into Release 1A (.WKS) files. 1-2-3 Release 2.0 for the Touchscreen personal computer will require a minimum of 384 Kbytes of RAM.

Lotus®, 1-2-3®, Symphony®, and Jazz® are US registered trademarks of Lotus Development Corporation. $dBASE^{\mathsf{TM}}$ is a US trademark of Ashton-Tate.

Also in this issue

IBM/Compaq trade-in update: new option in dealer channel

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(hp)

R:BASE 4000 to R:BASE 5000 upgrade now available for HP Touchscreen personal computer

Randy Kahle/PSD

An upgrade from R:BASE [™] 4000 to R:BASE 5000 is now available for HP Touchscreen personal computer users (P/N 45563-63002) for \$245 US list.

The upgrade is available by direct mail orders only and no discounts are available. Customers who wish to upgrade should send their order, prepayment and the master discs from R:BASE 4000 to:

Direct Marketing Division Hewlett-Packard P.O. Box 60008 Sunnyvale, CA 94088

ATTN: Software Administrator

Internal customers wanting to order the kit should place their order with their purchasing department over HEART (I2). Return the original HP disc(s) via:

Interoffice mail: Software Administrator/Internal Orders

Building 78/5

US Mail:

Direct Marketing Division

Hewlett-Packard P.O. Box 60008 Sunnyvale, CA 94088

ATTN: S/W Administrator - Internal Order

Reference the HEART order number on the package when returning the disc(s).

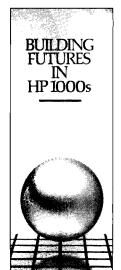
Customers wanting information regarding upgrade kits should call 800-538-8787. California customers call 408-738-4133. Internal customers should call the DMK Employee HOT Line, 408-720-2428.

R:BASE™ is a US trademark of Microrim, Inc.

FACTORY AUTOMATION

New flyer explains migration to new HP 1000 systems

Dan Vivoli/DSD



Do you have customers who are concerned about migration from their current HP 1000s to future HP Precision Architecture computers? Or are they worried that their HP 1000s will have no place after HP Precision Architecture machines are readily available? Then give them a copy of the new *Building Futures in HP 1000s* flyer.

This four-fold flyer concentrates on HP's commitment to coexistence and migration between HP 1000/RTE and HP Precision Architecture/HP-UX. The HP 1000, HP-UX, HP Precision Architecture, and the Migration Path are described at a high level. The piece is targeted at

middle- to upper-level managers of installed-base and potential customers. It is a perfect way to complement February's Spectrum program announcement and is HP's first direct communication to HP 1000 customers positioning our next generation of computing products with current real-time systems.

Building Futures in HP 1000s was included in the announcement packet you should have recently received. It complements the HP 1000 presentation and script that were also included. You can obtain more copies of the flyer by ordering P/N 5958-9507 from the Literature Distribution Center.

Correction on how to order Spectrum program primers

Carl Stolle/DSD

You have probably already received copies of the primers entitled *HP Precision Architecture* (P/N 5954-6677) and *Relational Technology* (P/N 5954-6676). Your literature coordinator will be able to order the primers from the Corporate Parts Center. Customers will also be able to place orders for the primers simply by calling Direct Marketing Division. These primers are *not* available from the Literature Distribution Center as was stated in the

article entitled "HP announces the first technical systems using HP Precision Architecture" in the March 1 issue of *Information Systems & Manufacturing News*.

MICRO 29 PLUS — the new low-end A900 computer

George Billman/DSD

The MICRO 29 PLUS is designed as a new, entry-level product for the high-performance HP A900 computer. It answers your request for lower ECC memory, A-Series I/O card, and mass storage product pricing; strengthens your ability to penetrate existing accounts and sell into new applications, especially end users involved in factory automation; and provides an attractive core product with which you can successfully leverage sales of other HP products, notably PCIF, QDM, and NS/1000.

Summary of product structure

The MICRO 29 PLUS is a new product that combines a Micro 29 A900 computer with a flexible selection of popular HP system components.

The components selected for the MICRO 29 PLUS product are the most popular for A-Series customers. Also included are several of HP's new products — the new 3-Mbyte ECC memory card, the new 40-Mbyte disc from Greeley Division, and the new NS/1000 and LAN/1000 networking products.

The MICRO 29 PLUS product offers a complete core product set that includes a Micro 29 system, additional 768-Kbyte ECC memory, 8-channel MUX, ¼-inch 65-Mbyte tape, RTE-A operating system, HP-IB interface, and a 40-Mbyte disc drive.

The core product set is available for \$33,550 (US list) representing a 15 percent savings of \$5,680 from full list for its individual components.

The MICRO 29 PLUS product bundle is designed to be flexible to conveniently accommodate a wide variety of customer requirements. Several options enable the core product set to be augmented by:

- Substituting a larger disc drive, i.e. 55 Mbytes or 132 Mbytes.
- Substituting a single, 3-Mbyte ECC card.
- Adding either direct or modem connect HDLC DS/1000 cards.
- Adding both the LAN/1000 card and the NS/1000 service (R-Copy).

continued on next page

Manufacturing Systems

Additional savings are available on each of these options. Moreover, these options let you expand your customers' savings on the MICRO 29 PLUS to over \$9,000.

Ordering information

The MICRO 29 PLUS is ordered as P/N 2459A, for which options may be selected.

P/N	Description	US list price
2459A	2489A Micro 29 System with RTE (92077A) and HP-IB (12009A) with: - Additional 768-Kbytes ECC memory - 40-Mbyte disc (9134L) - 8-Channel MUX (12040C) - '4" 65-Mbyte tape (9144A)	\$33,550
Opt. 002 Opt. 003 Opt. 004 Opt. 005	Delete 40Mb, Add 55Mb (7945A) Delete 40Mb, Add 132Mb (7914CT#140) Delete 1.5Mb ECC, Add 3Mb ECC (12221 DS card (12007B modem) DS card (12044A direct) 230V power option	1,650 7,400 A) 6,000 1,800 2,040

Ordering notes: Coordinated delivery only; no substitutions; NS/1000 requires prior A-Copy; may choose Option 001 or 002, not both; may choose Option 004 or 005, not both; no options on Micro 29 system; 8-week availability; site preparation and installation included; no partial returns.

Additional information

The MICRO 29 PLUS Field Training Manual contains a guide to target applications and a competitive comparison with MicroVAXII.

HP Micro 16 — new entry-level A-Series computer

Joan Starke/DSD

The new HP Micro 16 provides the solution for your customers that require real-time capabilities in a smaller package at a 20 percent savings over the popular A-Series Micro 26.

The Micro 16 is the new entry-level product for the A-Series family. Designed in response to your customers' request for a low-cost "micro" computer, the Micro 16 comes with a new smaller, more rugged package and is more reliable than any other A-Series product.

OEMs and other value-added channels

The Micro 16 is priced a full 20 to 30 percent lower than the Micro 26. These savings will allow your OEMs and value-added-channel (third-party) accounts to generate new business in price-sensitive applications. By subselling or repricing their software and utilizing the Micro 16's

hardware, they can achieve a solution with all the power of an A-Series at a *much lower price*. If your value-added-channel account has a low-end configuration but does not have price-sensitive accounts, they can simply pocket the savings.

Let's compare the pricing for the Micro 16 and Micro 26 using a "typical" low-end configuration. (Configuration used: CPU, MUX, disc controller, 40-Mbyte disc, and terminal.)

· -	Micro 16	Micro 26
US list price	\$11,300	\$13,600
With average discount	8,400 (20% savings)	10,400

The Micro 16 is also an excellent program development machine for your remote customer sites or those accounts with one or two users.

Factory automation

The ruggedization of the Micro 16 allows your customers to take their systems out of the computer room and onto the factory floor. The Industrialized IBM PC AT does not meet the impressive specifications of the Micro 16.

	Micro 16	IBM 7531
Temperature	0° - 60°C	0° - 49°C
Altitude	15,000 feet	7,000 feet
AC input	86 - 140 VAC	104 - 127 VAC
Humidity	5% to 95%	8% to 80%
Shock	1.5g	0.5g

On average, the Micro 16 has 97 percent better specifications.

Because the Micro 16 has been designed as a rugged, reliable system, the Micro 16 is the perfect solution for the factory floor. The Micro 16 can connect to factory floor devices via over 34 types of HP-supported interface and add-on cards. Paired with PCIF, the Micro 16 acts as the perfect entry-level workcell controller.

The Micro 16's open system, real-time capabilities, and small size make it an excellent fit as a data-communications gateway. The Micro 16 supports 802.3, DS/1000, X.25, MRJE, RJE, and Data Link protocols. The low cost and compatibility with higher performance A700 and A900 computers make the Micro 16 a perfect fit for the process-control industry, too.

Competition on the factory floor for the Micro 16 will come from the industrialized IBM PC AT. Unlike the PC AT, the Micro 16's operating system was specifically

designed for real-time applications. In addition, the Micro 16 provides your customer with a clear upgrade path to the entire A-Series family.

The Micro 16 is priced 25 percent higher than the IBM 7531 when compared on a single purchase. However, this premium drops to 10 percent when maximum volume discounts are applied to the Micro 16.

	Micro 16	IBM 7531
US list price	\$11,100	\$8,800
With maximum discount	6,800	6,200
	(10% di	fference)

The Micro 16 will fit into the smallest places and budgets. The Micro 16 is completely compatible with the entire A-Series family and will leverage HP and value-added-channel solutions for the factory floor. The Micro 16 will provide you with a reliable, compact and cost-effective solution for all of your customers' real-time applications at 20 percent less than the Micro 26.

The Micro 16 is available today and has an eight-week availability. Check your *Micro 16 Field Training Manual* for more information on where to sell the Micro 16, competitive analysis, and ordering information.

New ECC memory pricing for A600 + and A700 computers

George Billman/DSD

To complement the introduction of the Micro 16 products, the HP 2426E, 2426F, and 2456A, the prices for the 1-Mbyte and 2-Mbyte error correcting circuitry (ECC) memory boards are being reduced, effective April 1, 1986.

P/N	Capacity	Old	New	% Change
12111B	1 Mbyte	\$ 7,000	\$4,500	(36%)
12111C	2 Mbytes	13,000	8,000	(38%)

These two high-capacity boards will help your customers minimize the number of I/O slots used in the Micro 16 computers, making them available for the many interface cards supported on the Micro 16.

Also, all members of the A600+ and A700 computer families can use these two memory boards (A600+ and A700 computers must be equipped with a 12110A or 12110B ECC memory controller).

PCIF/1000 now supports General Electric Series 6 PLC

Mike Nissim/DSD

Starting on April 1, 1986, you will be able to connect HP 1000 A-Series computers to General Electric Series 6 Programmable Logic Controllers (PLCs) using the brand new PCIF/1000 handler, P/N 94206A/R. This new handler offers peer-to-peer networking with Series 6 PLCs (PLCs may generate unsolicited messages to the A-Series) according to GE's CCM2 standard. The handler also supports GE's new "GENIUS" PLC I/O interfaces when these are hooked up to a Series 6 PLC.

To establish a link with Series 6 PLCs, customers will need to purchase both the new Series 6 Handler (P/N 94206A/R) and PCIF/1000 (P/N 94200B/R) software. The handler uses a downloadable MUX (P/N 12041B) to communicate with the PLC, offloading the CPU from error checking and low-level protocol handling.

The GE handler is orderable as of April 1 with the following options:

P/N	Description	US list price
94206A	GE Series 6 handler	
Opt. 600	For A600 CPUs	\$1,500
Opt. 700	For A700 CPUs	2,000
Opt. 890	For A900 CPUs	3,000
Opt. 022	On CS-80 tape media	N/C
Opt. 044	On microfloppy media	N/C
Opt. 051	On 1600 BPI tape media	N/C
94206R	Right to copy the GE Series 6 handler	
Opt. 600	For A600 CPUs	750
Opt. 700	For A700 CPUs	1,000
Opt. 890	For A900 CPUs	1,500
94206Z	Documentation on the GE Series 6 Handler	20

In a survey conducted by the Yankee Group, connectivity to other vendors' equipment was among the most important factors that influenced the selection of a CIM vendor. PCIF now supports more than 75 percent of the PLCs available in the US, and 50 percent of the worldwide market.

This new handler represents our continuing effort to enhance the A-Series connectivity in the CIM marketplace. More handlers are in the works to bring HP to a position of leadership in this arena.

GIS/1000 demo systems and performance information

Julie Dunlap/DSD

GIS/1000 is a real-time process graphics package for the HP 1000 A-Series computer family that was first introduced in December 1985. GIS/1000 works with PMC/1000 to display real-time process variables in full, easy-to create, graphics format. Currently GIS/1000 is available on the Corporate Price List, P/N 92122A. If you want a demo copy for your office, it should be ordered through the HEART ordering system at the current transfer cost (approx. \$64).

What is new for GIS/1000? Well, as of April 1, 1986, a general performance specification note will be available. This will include GIS/1000 performance data as well as miscellaneous useful information, like how to demo the software without a 19-inch monitor and other tid-bits. To receive this information, please contact Don Taylor, AMSO Product Support, HPDesk 2200/40, telephone 408-257-7000, ext. 4354; or Julie Dunlap, DSD Product Marketing, HPDesk 2200/01, telephone 408-257-7000, ext. 3378.

Datapair/1000 software provides high availability

David Bayer/DSD

As you know, a key selling feature of the A-Series is its incredible reliability, which is measured in years. Of course, processor reliability is only part of the answer. Discs are a key part of a computer system, and they are typically more prone to failure than processors. Datapair/1000 (P/N 92050A/R) software reduces the likelihood of data loss due to disc failure.

Datapair/1000 allows disc volumes for RTE-A systems to be configured in mirrored pairs for data protection and high availability. These paired volumes are configured on separate disc drives, each connected via its own HP-IB interface for maximum protection against disc failure. For these selected volumes all data and programs sent to one disc drive are automatically copied onto the other drive.

Datapair features

Data and programs sent to one disc drive are automatically copied onto the other drive. Thus, if one disc fails, data and programs are still available to the system from the other disc.

- In the case of a system recovery, Datapair/1000 pairing relationships are restored without operator intervention.
- Support for all CS/80 and SS/80 discs using standard disc device drivers.
- Restoration of data onto a repaired disc can take place while applications are running
- Completely transparent to the user's application software (only requires a new system generation to install).
- Includes data-verification utilities.

These features of Datapair/1000 will improve availability of the HP 1000 computer system; improve data integrity for database applications; protect customers against data loss; provide much of the benefits gained from installing "fault-tolerant" system at half of the competition's price; and make the product easy for customers to install.

Where to sell Datapair

Datapair is useful for applications where the value of data or the cost of system downtime is high. Typical customer applications might be in manufacturing, on-line transaction processing systems, and telecommunications. Manufacturing customers, for example, may need to keep production information (inventory, CNC instructions) available; or may have to scrap production runs when batch data is lost (pharmaceuticals, automobile supplies, etc.).

The cost of losing the use of a manufacturing system when data is unavailable is high. Manufacturing customers have indicated the cost of lost production due to downtime ranges from \$100 to \$2,000 per hour.

Configuration requirements

To install Datapair/1000 on an A-Series system, the customer must add: Datapair/1000 software (P/N 92050A/R), an additional disc drive (CS-80 or SS-80 family), and an additional disc-interface card. Consult the Datapair/1000 data sheet, P/N 5953-8768.

Pricing and availability

The factory base price for Datapair/1000 92050A/R is:

Option	(Processor)	A-Copy	R-Copy
600	(A600)	\$3,500	\$1,750
700	(A700)	5,000	2,500
890	(A900)	6,500	3,250

Consult the field training manual for Datapair/1000, included in your "A-Series Systems Product Reference Guide" which was mailed in March 1986.

For customers whose data has high value, Datapair/1000 is a cost-effective method of providing increased uptimes and improved data integrity. Because Datapair/1000

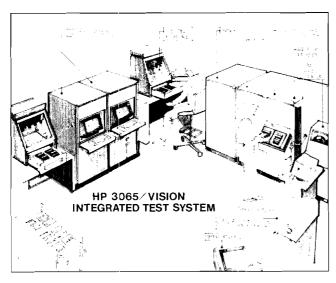
requires no changes to customers' applications, it provides high-availability systems to your customer without complex programming normally associated with fault-tolerant systems.

Response to Datapair/1000 by beta-test site customers has been enthusiastic. Multiple customers with discrete, batch, and process control applications have expressed a keen interest in Datapair. With Datapair/1000 and the A-Series you have a winning sales combination.

HP 3065 and HP 1000 meet vision-based test system

Dilip Modi and Jim Warner/AMSO

Advanced Manufacturing Systems Operation (AMSO) has successfully installed two vision-based test systems and is currently working on the third installation for a major automobile manufacturer. The customer is building vacuum fluorescent display boards used in the dashboards of the top-of-the-line 1986 cars. The boards display information such as fuel level, mph, engine temperature, date, time, etc. The HP 3065, an HP 1000-based board test system along with a value-added-channel (third-party) vision system test these displays.



Testing these displays presents an interesting problem: the entire display board, including ICs and other components, must be tested prior to shipment to the auto assembly plant. Testing eliminates rework at the auto assembly line which is significantly more costly than at

the subassembly level. The difficult part of the test is verifying the visual information displayed on the VF tube. Earlier, an assembly line worker used to look at each display to see that all segments and annunciators are on. As you can imagine, there used to be many overlooked defects.

The solution that HP has provided to the customer uses a standard HP 3065 board test system for component and functional test along with a value-added-channel vision system for visual test. The test process begins like any other digital board test. The HP 3065 performs opens, shorts, component and functional tests. Good boards from the HP 3065 go to the vision system where the VF tube is scanned by an array of solid-state cameras. Software within the vision system compares the scanned information with a model stored in memory and flags any problems. The vision system verifies correct segment, brightness, background/foreground contrasts, and absence of ghosting. Displays are judged on a pass/fail basis with data reporting following each test. A database is thus created and includes quantities of good and bad displays, plus reasons for failure on each affected display.

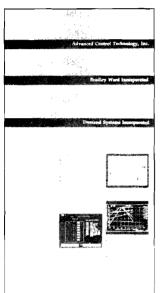
Boards are tracked via bar-coded serial numbers. Both the HP 3065 and the vision system have bar code readers which enter the serial number prior to testing. When the vision system has completed a test, failure information is downloaded to the HP 3065 via an RS-232 link. The failure data from the vision system is merged with the failure data in the HP 3065, according to serial number, and is stored in a database for later analysis. The Q-STATS software package on the HP 3065 performs statistical analysis on both the HP 3065 data and vision system data. Three vision-based test systems are tied to a single HP 3065.

Vision systems are rapidly being integrated into manufacturing and test areas to automate tasks previously limited to manual inspection. Vision systems help relieve operators of the fatigue and eye strain associated with inspection on high-volume assembly lines. This system allows the customer to understand their manufacturing process, and reduce defects and worker fatigue.

The key to the success of this project was the comprehensive project integration and program management service provided by AMSO in delivering a turnkey solution to the customer. If you need additional information on this success story, or have a similar sales opportunity, contact Dilip Modi at 408-257-7000.

New data sheets for processcontrol value-added channels

Rick Batty/MSG



Three new data sheets are available for the "Solutions for Process Industries" folder. They include Advanced Control Technology (ACT), Bradley Ward, Inc., and Demand Systems, Inc. With offices in Albany, Oregon, and Akron, Ohio, ACT is a systems integrator that provides turnkey services including engineering studies, customized application software and installation and startup. ACT has installed more than 800 control and information systems in the forest products, aircraft, metals, petro-chemical, food and beverage.

mining, coal, and discrete parts manufacturing industries. Their client list includes Boeing, Procter & Gamble, Weyerhauser, Miller Brewing, SOHIO, Timken Steel, Crown Zellerbach, CONOCO, Shell, and AMOCO.

Bradley Ward, Inc., specializes in programmable logic controller (PLC)-based process software for the HP 1000 minicomputer. Their products range from turnkey solutions to subroutine library tools. Their PMIS 1000 (Process Monitoring and Information System) is a turnkey solution specifically designed for the RTE operating system. General Foods has purchased several copies of this package. Other clients include RCA, Norton Chemicals, Georgia Pacific, McKee Baking, Teledyne, Dundee Cement, Gainesville Regional Utilities, General Electric, GoodYear, Gould, Lockheed, 3M, Northern Telecom, R.J. Reynolds, and Westinghouse.

Demand Systems, Inc. is a total solution supplier/systems integrator who provides design expertise, software and services for factory automation, data acquisition, and process control systems. Their DDACS-1000 system is a data-acquisition-and-control system which runs on the HP 1000. Industries where they have worked include petroleum, paint, metals, power plant, food, glass, aerospace, and semiconductors.

For further information on these value-added-channels, please call their HP sales reps as follows: ACT — Jim Grace, Wilsonville, Oregon, 503-682-8110; Bradley Ward, Inc. — Lance Brady, Atlanta, Georgia,

404-448-1894; Demand Systems Inc. — Irwin Sherry, Thousand Oaks, California, 805-373-7095. The data sheets are available from the Literature Distribution Center by ordering:

P/N	Title
5954-6761	Advanced Control Technology
5954-6762	Bradley Ward Inc.
5954-6763	Demand Systems Inc.

The brochure is designed for you to leave with customers to demonstrate HP's capability for process applications.

HP 1000 software support: RTE-IVB mag tape media support

Iim Burkett/PRSD

Product Support Division (PRSD) will consolidate the magnetic tape media suffixes for the RTE-IVB Operating System. Effective April 1, 1986, redundant magnetic tape media support suffixes will be removed from the Corporate Price List.

All 800 bpi mag tape media support suffixes will use "50" as the media designator. Use of media designators "52", "54", "56" and "58" will be discontinued because they also had provided 800 bpi mag tape media.

Similarly, 1600 bpi mag tape media support suffixes will use "51" as the media designator. "53", "55", "57", and "59" will be discontinued.

Existing RTE-IVB support contracts with a redundant mag tape media designator should be rolled over to a "50" or "51" at renewal. Customers will continue to receive appropriate mag tape updates during the roll-over phase.

HP 1000 software support: obsolete RTE operating system support

Iim Burkett/PRSD

Effective April 1, 1986, software support services for three obsolete HP 1000 RTE operating systems will be removed from the Corporate Price List. Each operating system passed their end-of-support date. Future software and documentation updates are not planned because the software is frozen.

HP will no longer offer contractual support for these operating systems. Each customer situation should be closely reviewed at the local level. Customers may continue to receive telephone or on-site assistance on a time-and-material basis.

Obsolete RTE operating system support

P/N	Description	End-of-support date
92001A	RTE-II	January 1984
92060A	RTE-III	January 1984
92067A	RTE-IVA	January 1986

Introducing HP 3065 Response Center Support

Jim Burkett/PRSD

Beginning May 1, 1986, Hewlett-Packard's North American Response Center Network will provide telephone assistance for HP 3065 board test systems. Response Center Support (RCS) replaces Software Information Service (SIS) and centralizes the delivery of HP 3065 telephone assistance. HP 3065 Response Center Support also provides software and documentation updates.

Response Center Support will keep board test users and programmers at the highest level of productivity. The Response Center will answer questions and resolve problems about HP 3065 software or system usage. On-line tools, Manufacturing Test Division (MTD) factory resources, and problem duplication are used to verify software problems and provide workaround assistance. Special HP 3065 remote diagnostic tools may also isolate problems quickly. Unanswered questions will automatically involve the Customer Escalation Center team.

50 percent price reduction

HP 3065 Response Center Support costs less than half the price of SIS. The monthly support price has been reduced from \$400 to \$190. Separate Response Center Support services are available for each HP 3065 controller.

Multiple-system support

Customers with multiple HP 3065 board test systems can receive Response Center Support. Additional System Coverage (ASC) provides extended Response Center assistance at a reduced price. Customers may select between two material support alternatives: (1) right-to-copy software and documentation, or (2) receive update materials directly from HP.

HP 3065 Response Center Support Services

P/N	Description	US list price
3065C + H22	HP 3065C RCS	\$190/mo.
3065CL + H22	HP 3065CL RCS	190/mo.
3065CX + H22	HP 3065CX RCS	190/mo.
3065C + V00	HP 3065C ASC (right-to-copy)	55/mo.
3065CL + V00	HP 3065CL ASC (right-to-copy)	55/mo.
3065CX + V00	HP 3065CX ASC (right-to-copy)	55/mo.
3065C + V22	HP 3065C ASC (with material)	40/mo.
3065CL + V22	HP 3065CL ASC (with material)	40/mo.
3065CX + V22	HP 3065CX ASC (with material)	40/mo.

HP 3065 RCS implementation and TIPS transition

Iim Burkett/PRSD

As the Response Center gears up to support HP 3065 board test systems, the local TIPS centers will wind down. A 60-day transition period is planned to transfer TIPS calls to the Response Center.

Beginning May 1, 1986, the North American Response Centers will accept HP 3065 software support calls. Support customers will have access to specially trained system experts borrowed from Manufacturing Test Division (MTD). Local HP 3065 systems engineers and field engineers will receive fewer software usage questions and will have more time available for revenue-generating activities.

North American TIPS Centers will route software support phone calls to the Response Center during May and June. The transition should be complete by July 1. The TIPS Centers will use a script to explain the new procedures to HP 3065 customers. Customers will then be expected to call the Response Center instead of the TIPS Center.

During the initial RCS implementation, customers may experience a temporary increase in the normal call-back response. Both Response Centers will be accepting calls, but only the Santa Clara Response Center will have the dedicated resources for HP 3065 support. The maximum call-back response should not exceed four hours. The Santa Clara Response Center will be staffed to provide support from 8 a.m. to 5 p.m. Pacific Standard Time.

Additional system support for HP 3065 systems

Jim Burkett/PRSD

Now there are two ways to provide support for multiple HP 3065 board test system configurations: (1) additional system with right-to-copy, and (2) additional system with HP delivered material. Both Response Center Support (RCS) and Software Materials Subscription (SMS) can be extended to additional HP 3065 systems.

Additional system with right-to-copy

The right-to-copy alternative should only be selected when each HP 3065 has the same controller. Software and documentation updates can be copied only from matching HP 3065 controllers. For example, if your customer has two HP 3065CX systems, then the right-to-copy alternative may be selected. Conversely, if your customer has one HP 3065CX, and one HP 3065C, then the right-to-copy alternative cannot be selected.

When ordering the right-to-copy alternative, use the $+\,V00$ suffix to extend Response Center Support. Or, use the $+\,W00$ suffix to extend Software Materials Subscription.

Example: RCS for two HP 3065CX controllers

Central System: HP 3065CX RCS			3065CX + H22
Additional System: HP 3065CX ASC w	ith right-to	-copy	3065CX ± V00

Additional system with HP-delivered material

The "with material" alternative is for customers with multiple, but different HP 3065 controllers. Customers may also select the "with material" alternative, instead of the right-to-copy alternative, for the convenience and quality of HP delivered software and documentation updates.

First, the customer identifies the most powerful controller as the central system. Then, each additional controller is supported using the "with material" alternative.

Ordering additional system with material support requires using pairs of support suffixes. Use $+\,$ V00 and $+\,$ V22 to extend Response Center Support. Use $+\,$ W00 and $+\,$ W22 to extend Software Materials Subscription. Contact your local contracts administrator for more details.

Example: RCS for one HP 3065CX and one HP 3065C

Central System: HP 3065CX RCS	3065CX + H22
Additional Systems: HP 3065C ASC with right- HP 3065C ASC with mater	to-copy 3065C + V00

NS/3065 software support

Iim Burkett/PRSD

NS/3065 software can be supported in HP 3065 board test networks. NS/3065 software and documentation updates and NS/3065 telephone assistance are ordered as separate line items with the controller support contract.

Material support

Software Materials Subscription (SMS) provides one copy of NS/3065 software and documentation updates. Use the \pm S00 suffix for SMS support.

NS/3065 software can also be successfully copied by your customers. Therefore, Extended SMS, a right-to-copy service for software and manual updates, is available. Extended SMS support will provide the right-to-copy material updates delivered to the central system. Use the + W00 suffix for extended SMS support.

Telephone assistance

A new DataCom Software Category has been created to provide telephone assistance for NS/3065 and other HP 3065 networking software. RCS support of the HP 3065 controller is a prerequisite for DataCom Category support.

NS/3065 SMS or Ext SMS must be ordered with the DataCom Category support to provide the necessary material updates.

Example: NS/3065 Response Center Support

Central System: (3 items) HP 3065 RCS DataCom-C/HP 3065 Category NS/3065 SMS	99087R + C00
Additional Systems: (4 items) HP 3065 ASC with material	
Extended DataCom-C/	3065C + V22
HP 3065 Category	99087R + V00
NS/3065 SMS	44670A + W00

Example: NS/3065 Software Material Subscription

Central System: (2 items) 3065C + S22 HP 3065 SMS 3065C + S22 NS/3065 SMS 44670A + S00
Additional Systems: (2 items) HP 3065 Ext SMS right-to-copy 3065C + W00 NS/3065 SMS

60 percent price reductions on HP 3065 SNS and MUS

Iim Burkett/PRSD

Effective April 1, 1986, the monthly service charges for Manufacturing Test Division's (MTD) HP 3065 Software Notification Service and Manual Update Service will be reduced by 60 percent.

Product Support Division (PRSD) will lower the monthly price of the HP 3065 SNS from \$55 to \$20. The monthly price of HP 3065 MUS will be lowered from \$40 to \$15. Both price reductions are due to improved delivery and production efficiencies.

Current subscribers to HP 3065 SNS or MUS are entitled to the price reductions as of April 1. Contact your local contract administrator for more details.

	US list price		
P/N	Description	Old price	New price
3065C + N00	HP 3065 SNS	\$55/mo.	\$20/mo.
3065CL + N00	HP 3065CL SNS	55/mo.	20/mo.
3065CX + N00	HP 3065CX SNS	55/mo.	20/mo.
3065C + Q00	HP 3065C MUS	40/mo.	15/mo.
3065CL + Q00	HP 3065CL MUS	40/mo.	15/mo.
3065CX + Q00	HP 3065CX MUS	40/mo.	15/mo.

New HP 3065 user documentation MUS

Jim Burkett/PRSD

Now HP 3065 customers can purchase contractual updates to their additional sets of user documentation. Three new Manual Update Services (MUS) have been defined for (1) Additional HP 3065C User Documentation (2) Additional HP 3065CL/CX User Documentation (3) Additional HP 3065 Quick Reference Guide.

Each of the new MUS services are intended to complement an existing HP 3065 software support contract. When your HP 3065 customers need more than one copy of manual updates, first sell an HP 3065 RCS or SMS contact and then include additional MUS services as needed.

P/N	Description	US list price
44630A + Q00	Additional HP 3065C User MUS	\$15/mo.
44630B + Q00	Additional HP 3065CL/CX User MUS	15/mo.
44630Q + Q00	Additional HP 3065 Quick Reference MUS	5/mo.

(17)

New high-speed HP-IB interface for HP 9000 Series 200/300

Karen Dudlely/RND

The 98625B high-speed HP-IB interface for HP 9000 Series 200/300 systems is now on the Corporate Price List and has a US list price of \$650. The 98625B is completely backwards compatible with the 98625A; and, therefore, the 98625A will be removed from the Corporate Price List in May 1986. The new version offers improved performance and reliability.

The 98625B high-speed HP-IB interface is intended primarily for connection to hard disc drives or other high-speed HP-IB devices. A switch-selectable mode does allow connection of standard-speed HP-IB devices, but in most cases the 98624A or the built-in HP-IB will provide a more cost-effective connection for standard-speed devices.

The 98625B offers a mode for word-wide (16-bit) DMA transfers. Word mode allows data to be transferred in bursts at a rate of 2 Mbytes/second. The average transfer rate will be equal to the transfer rate of the attached device. To achieve the maximum transfer rate, the 98625B utilizes DMA and requires the 98620A DMA controller card.

Ordering information

P/N	Description	US list price
98625B 98625-66502 98625-90001	High-speed HP-IB interface PC assembly Installation manual	\$650

Compatible cables available from Direct Marketing Division are 10833A (1.0 meter), 10833B (2.0 meter), 10833C (4.0 meter), and 10833D (0.5 meter).

HP 9884A tape punch to be obsolete July 1, 1986

Wolfgang Monauni/DSG/EMC

The 9884A has been a very long-lived product but now due to newer technology, 9884A sales are falling off. It has now reached the point where it is impractical and unprofitable for us to continue a product line devoted to the 9884A. So we are going to obsolete the HP 9884A on July 1, 1986.

Orders will be accepted until September 30, with the exception of European orders which will be accepted only until August 31. No shipments will be allowed worldwide after November 15.

Technical Support will be available for 10 years after the tape punch discontinuance.

If you have any customers who wish to place an order for the HP 9884A, please inform us as soon as possible.

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"Engineer's Delight": a Megabytes Plus solution for technical systems	11
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(hp)

MAXS now supports HP 3852A with HP 1000 A-Series

Scott Sampl/LID

MAXS is a modular and flexible data acquisition and control system supporting many different signal-measuring front ends with the HP 1000 computer from C&L Systems, a listed software supplier. C&L Systems has recently announced support of HP's newest data acquisition front end, the HP 3852A. In addition to the HP 3852A, it supports the HP 6940B, HP 6942A, HP 3497A, and the HP 2250 system.

Features

Major features of the MAXS system include support of redundant hardware configurations from signal source to computer; memory resident process tables, backed-up on demand and timed basis; users can have various startup, shutdown, transfer operations to/from computer; historical data compression and trending via several methods; event and alarm logging and reporting; MAXS enables on-line addition, updating, and deletion of manually entered, measured and calculated variables as well as loops; continuous, DDC, supervisory, cascade, and adaptive control schemes; and compressed data and event log file to IMAGE database interface.

Markets and applications

Additional packages allow the expansion of MAXS into full automatic control of pilot processes. PGRAF lets users construct process flow diagrams and other graphic screens. The color graphics editor helps users build the screen while MAXS dynamically refreshes the screens in real time.

A programmable controller emulator marries PLC ladder logic to MAXS. Standard ladder logic diagrams are used on the screen to build batch process sequencing. MAXS then executes the logic to control both continuous and batch operations using the front-end hardware.

Six additional packages, called the Q-Family, can be added. These center around database transaction processing needs. The modules can be added separately or in combination and provide such things as screen access of an IMAGE database, a report generator, a text formatter, an extended terminal handler, a file-sorting program, and a forms-designing-and-editing package.

Modularized version available

MINS is a modularized version of MAXS. It was recently created for customers who do not need all of the capabilities of MAXS. It is supported on the HP 3497A and HP 3842A and is broken into the following pieces:

- Data Acquisition Subsystem, which is the basic building block. It has the forms, menus, softkeys and on-line help screens to assist in system operation. It also includes the HP 3497A and HP 3852A interfaces, a help processor, input and alarm processors, real-time trends, and a user library.
- Historian can compress and store data and events in circular files. Log reports and time expanded graphical displays are provided.
- Calculation and Control Loop Processor lets users enter FORTRAN-like equations and PID loops. The module supports startup initialization, direct digital control, supervisory, cascade, and adaptive schemes.
- Database Interface is a source program which stores processed data into an IMAGE database, files or transmits the data to another computer.
- Configuration resizes the standard system to provide for custom applications.
- Lab Acquisition allows users to tie in analytical laboratory instruments and time correlate the data with standard data.

Price and support

MAXS is priced at \$12,000 for the first copy. Multiple copy discounts are available. MINS modules are priced from \$1,000 to \$5,000. A wide range of support services are available, worldwide, and include phone-in consulting, on-site consulting, mail-in support, remote dial-in, and program modification.

For more information, see the *HP Technical Systems Software Solutions Catalog* or contact C&L Systems directly: C&L Systems, 1250 E. Ridgewood Avenue, Ridgewood, NJ 07450; 201-427-5890. The contacts are Don LaRobardiere and Bob Combs.

Using a PID algorithm inside the HP 3852A

Conrad Proft/LID

Application Note 290-2 (P/N 5953-6921) shows how the HP 3497A is used to control industrial wastewater treatment using an HP-85 computer. The overall process is described in the first nine pages with the actual algorithms such as a PI, Totalized Setpoint, Sequencer, and Output Timers illustrated in the Appendix.

Of particular interest is the implementation of the proportional-integral-differential (PID) algorithm as illustrated here in Figure A. This analog equivalent diagram is converted to HP-85 BASIC in Figures B and C. The

Test & Measurement

parameters used in this code are mostly matrix form (arrays) so that the same 12 lines can control multiple loops. The system implemented at the Loveland Instrument Division (LID) allocates matrices to allow up to 10 PID loops.

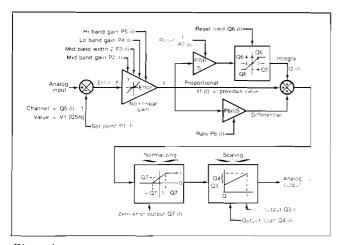


Figure A

100 FOR I = 1 TO N6 X = V1 (Q5(I)) - P1(I)105 IF X> - P3(I) THEN 120 110 Y = (X + P3(I)) * P4(I) - P3(I) * P2(I) @ GOTO 135115 IF X < P3(I) THEN 130 120 Y = (X - P3(I)) * P5(I) + P3(I) * P2(I) @ GOTO 135125 $Y = X \cdot P2(I)$ 130 12(1) = MAX(MIN(12(1) + P7(1)*Y,Q6(1)), -Q6(1))135 17 = MAX(MIN(Y + 12(1) + (Y - 11(1)) *P6(1) + Q7(1),1)0) @ 145 $I7 = I7 \cdot Q4(I) + Q3(I)$ OUTPUT 709; "A0"; Q1(I); ","; Q2(I); ","; INT(I7) 150 155 NEXT

Figure B

- 11(f): Previous value of the proportional part of the I'th PID functions.
- 12(1): Integral part of the I'th PID function.
 - Output of the PID. Scaled from 0 to 1 in line 140, and 17: scaled to the output device in line 145.
 - Number of PID's. A constant. N6:
- P1(I) Value of the I'th PID's set point. A constant.
- P2(I): Mid-band gain. A constant.
- P3(I): Half of the mid-band width. A constant.
- P4(I): Low-band gain, A constant.
- P5(I): High-band gain. A constant.
- P6(I): Constant of differentiation for the I'th PID. A constant.
- P7(i): Integration constant for the I'th PID. A constant.
- Q1(I): 3497A slot # of the analog output controlled by the I'th PID. A constant.
- Q2(I): 3497A channel # of the analog output controlled by the I'th PID. A constant.
- Q3(I): 0% output value of the analog output channel controlled by the I'th PID. A constant.
- Q4(\mathfrak{l}): Output span (100% value 0% value) of the analog output channel controlled by the I'th PID. A constant.
- Q5(I): One plus the channel number of the I'th PID's input. A constant.
- Integral limit for I'th PID. A constant.
- Q7(I): Zero error output for the I'th PID. A constant.
- V1(Q5(I)): Value of the I'th PID's input.
 - X: Error between analog input and the set point constant.
 - Y: Proportional part of PID function.

Figure C

For HP Use Only

The BASIC used inside the HP 3852A can easily implement this PID control algorithm and execute it much faster and more efficiently than the previous instrument configuration. In addition, the HP 3852A has an internal system clock for precise time spacing of input measurements and output control signals.

The method of handling more than one PID loop per scan sequence is very convenient for HP 3852A digital-analog converter (DAC). The DAC has a minimum requirement settling time to give its output sufficient time to reach the programmed voltage or current value. If many channels

can be programmed rapidly at one time, the time needed to wait for the outputs to settle can be used to read new input values and calculate new output values.

The settling time of the HP 44727A/B/C four-channel DAC output is 75 mSec. This would be the minimum time allowed before another scan of PID loops can be completed. This scan time can also be preset to any larger time interval. If N number of PID loops is scanned and processed every T + 75 mSec., the overall loop per second rate will be dependent upon the value of N and T. For example, if six loops can be processed every 75 mSec., the overall loop rate is 80 loops/second. If eight loops can be processed every 100 mSec., the rate is also 80 loops/second.

Since the 75 mSec. settling time and the PID algorithm execution time are relatively constant, the overall loop per second time is dependent upon the scanning rate of the voltmeter. Scanning rates are dependent upon which voltmeter is used (HP 44701A integrating DVM or HP 44702A/B high-speed DVM) and also dependent upon the resolution of the voltmeter reading.

I have implemented the PID algorithm from Application Note 290-2 in HP 3852A BASIC and have an execution time that supports the previous calculations. The example configures the HP 3852A and its accessories as follows:

The results showed eight loops being scanned every 81 mSec. for an overall loop rate of 98 loops/second.

If you would like a copy of my programming example, please phone or telex me at 303-667-5000, COMSYS 0900/MK.

Goodbye to the HP 2250

Bill Wareham/LID

After a long and interesting career, the HP 2250 has about exhausted its product life. Therefore, Loveland Instrument Division (LID) has set the last order date for all HP 2250 family products as July 31, 1987. We are giving 16 months advance notice so that existing HP 2250 customers will have enough time to plan for the product's obsolescence. The HP 2250 will have a support life of 10

The HP 2250 is a large product that is often built into complex systems so now is the time to start helping your customers plan for discontinuance. If you anticipate any major difficulties or considerations, please contact me or your regional systems engineer (RSE) at LID and we will be happy to work out a specific plan for notifying your customer. We want to make this as easy and pleasant for everyone as possible.

This discontinuance might be an opportunity to talk with your customer about the HP 3852S data acquisition and control system. Contact your RSE for a copy of the HP 2250/HP 3852 comparison chart. This paper gives a detailed feature-by-feature comparison of these two products. It will answer most questions about whether or not an HP 3852A will replace an HP 2250 in a given application.

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NETWORKS

NS/1000 supported under **PCO A.85**

Doug McLean/

The NS/1000 sales literature dated Ianuary 2, 1986. states that NS/1000 is only supported under RTE-A PCO 4.0. As PCO 4.0 will not be available until later this spring. Release 1 of NS/1000 will be supported under RTE-A PCO A.85. (Release 1 includes support of localarea network configurations.) Releases 2 and 3 of NS/1000 will be supported only under PCO 4.0. If you have any questions relating to NS/1000 and the version of RTE-A required for support, please contact the Network Sales Center.

HP 2334A multimux configuration guide available soon

Patrick Favre/GND

The complete HP 2334A multimux configuration guide will be available from Direct Marketing Division (DMK) in April 1986 and can be ordered under P/N 02334-90011. This guide will be delivered with every HP 2334A.

The configuration guide will cover the types of configurations with plenty of examples which have been fully tested by Grenoble Networks Operation (GND). The configuration types are:

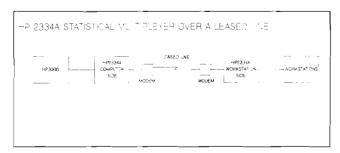


Figure 1

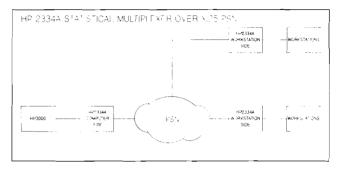


Figure 2

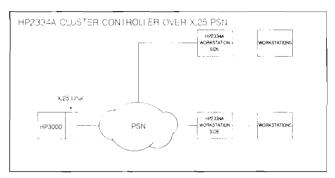


Figure 3

This configuration guide provides a working example for all major applications and configurations. Any comments or feedback on this guide or any other topics regarding the HP 2334A are welcome.

HP 27140A price increase

David Kuntz/

For HP Use Only

Effective April 1, 1986, the price of the HP 27140A sixchannel asynchronous multiplexer will increase from \$2,000 to \$2,400. The price of all the options will remain unchanged.

Also in this issue

HP 3000-to-IBM product line price changes

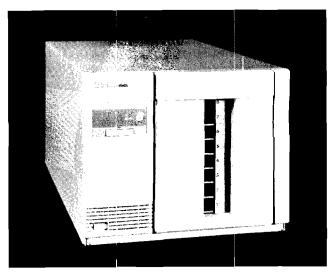
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MASS STORAGE

New tape drive offers unattended backup for mid-range systems

Kevin Greenleaves/CPB

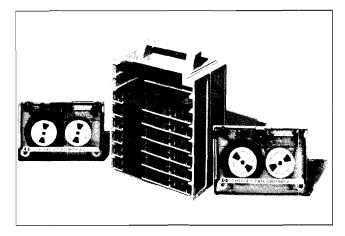
The HP 35401A ¼-inch cartridge autochanger tape subsystem from Computer Peripherals Bristol (CPB) is ideally suited to unattended backup. It combines an autochanger mechanism with the key components of the HP 9144A tape drive to automate cartridge loading and unloading, thereby offering up to 536 Mbytes of storage.



The HP 35401A ¹/₄-inch cartridge autochanger tape subsystem offers unattended backup for mid-range systems.

Benefits

- Cost-effective backup Unattended backup eliminates manual loading and unloading of tapes and can be a great money saver. The HP 35401A will perform unattended backup, allowing system backup to be performed without an operator. With its 536-Mbyte capacity, the HP 35401A satisfies present needs and allows for future growth. It is also fully media compatible with the HP 9144A and HP's range of integrated cartridge tape/disc drives, thereby protecting past investments.
- Designed for the office The HP 35401A has been designed specifically for the office: it is small, easy to use, and quiet. It may be used standalone or integrated with a system into the Design Plus cabinet. Furthermore, because it is so easy to use, the HP 35401A is customer installable.



The eight cartridge tapes in the convenient HP 92192C cartridge magazine used with the HP 35401A can be accessed sequentially or selectively.

Application flexibility — With eight cartridge tapes that
can be accessed sequentially or selectively (see
note 1), the HP 35401A is suited to a wide range of
applications, such as software duplication. In addition,
data can be structured to suit the user in the removable cartridge magazine.

Positioning

The HP 35401A is positioned between the HP 9144A cartridge tape drive and the HP 7974A reel-to-reel tape drive. It is priced at \$7,000 US list and \$6,700 factory base price.

The HP 9144A is HP's lowest-cost tape drive suitable for small systems. In contrast, the HP 7974A offers higher performance and industry-standard data formats. In general, the HP 35401A should be sold when the HP 9144A is considered too limited or the HP 7974A too expensive.

Markets

Key prospects for the HP 35401A fall into three categories:

- Low-end to mid-range commercial system users (HP 3000 Series 37/42/48). The HP 35401A will allow them to perform unattended backup and thereby save money.
- Mid-range to high-end technical system users (HP 9000 Series 300/500). They will purchase the HP 35401A because they want the benefits of unattended backup or because they want the high capacity and flexibility that the HP 35401A offers.

continued on next page

Customers who have outgrown their present ¹/₄-inch cartridge tape drive and want a more capable backup solution. The HP 35401A tape drive offers them the benefits of unattended backup, while retaining compatibility with their existing cartridge tape library.

System support

The HP 35401A is currently supported on a wide range of HP 3000 and HP 9000 systems.

System	Operating system	Sequential	Selective	Comments
HP 3000	MPE V/E U-MIT	X		
HP 9000 Series 200	BASIC 4.0 Pascal 3.1 HP-UX 5.1		X	See Note 2 See Note 2 See Notes 2,3
HP 9000 Series 300	BASIC 4.0 Pascal 3.1 HP-UX 5.1		X	See Note 2 See Note 2 See Notes 2,3
HP 9000 Series 500	HP-UX 5.0			See Note 2

Note 1: The HP 35401A offers two modes of operation, Sequential and Selective. Support of these two modes varies with operating systems, so please check to see that the mode your customer wants to use is supported.

Note 2: Multiple cartridge use with this operating system in Sequential mode requires some operator intervention to sequence the cartridges.

Note 3: Selective mode operation with this operating system allows cartridges to be loaded in any order (e.g. 1 thru 8; 1,2,4,7,3,6,5,8; etc.).

Computer Peripherals Bristol (C600) will be the supplying division for the HP 35401A tape drive.

HP 7978A deleted from CPL on April 1

Sandy Hansen/GLD

Just a reminder that the HP 7978A ½-inch tape drive will be removed from the Corporate Price List on April 1, 1986. Normally, tape service support continues for 10 years after a product's discontinuance. However, in the case of the HP 7978A, we will extend the service life for the lifetime of its replacement, the HP 7978B.

The performance-enhanced HP 7978B, introduced November 1985, offers the same 6250/1600 cpi densities and high-speed backup performance as the HP 7978A. At the same time, HP 7978B customers get better perfor-

mance during start/stop applications, when the system is busy, or in shared-interface configurations — situations when HP 7978A performance did not always meet customer needs.

For your HP 7978A customers wishing to upgrade their drive to the high-performance HP 7978B, there is a field upgrade kit (HP 88702A) available for \$2,400 (US list).

Also in this issue

"Engineer's Delight": a Megabytes Plus solution for technical systems

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PLOTTERS

Proper field procedures for damaged freight

John Manley/SDD

Whether San Diego Division (SDD) or the customer should file a claim with a freight carrier is determined by the free on board (FOB) point of shipment. With the exception of some specially negotiated contracts, all shipments are considered FOB destination. This means that HP will file the claim and absorb any losses. The degree of loss we suffer is partially determined by what takes place in the field. We can only file a claim under the following conditions:

- The customer notes on the freight bill or delivery receipt the physical condition of the merchandise at the time of delivery (e.g., two corners crushed; carton wet).
- 2) Concealed damage (not noted upon delivery) must be reported to the carrier within 15 days of delivery. The packaging should be saved, preferably with the merchandise still partially packaged. Not reporting damage within 15 days of delivery releases the carrier from all liability.
- 3) An inspection report from the carrier is obtained. The customer should obtain this or the sales rep can, if he/she prefers.
- 4) The customer and/or sales rep forwards the inspection report and the delivery receipt noting the damage to the traffic department at SDD.



Claims can't be filed for packaging. In the event reshipment is necessary, new packaging must be obtained by the customer.

Photographs showing damage to the shipment are strongly recommended. Do not put the merchandise back into transit, even to a sales office, until an inspection report has been obtained.

The key to a successful freight claim is legitimate proof of carrier negligence. Please contact John Manley at SDD via HPDesk if you have any questions.

Also in this issue

HP 7550A opens the door at Smithco Engineering

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PRINTERS

HP 293X HP-IB and 2671G printer price increases

Laird Clow/VCD

Effective April 1, 1986, the prices of the HP-IB interface for the HP 2932A and 2934A printers (plus the interface upgrade kits) and the price of the HP 2671G thermal graphics printer will be increased to reflect increasing factory costs:

Printer/ Option	Description	Old price	New price
HP 2932A Opt. 046	Replaces standard RS-232 interface with HP-IB interface	\$ 50	\$ 150
HP 2934A Opt. 046	Replaces standard RS-232 interface with HP-IB interface	50	150
HP 29085A Opt. 046	HP-IB interface upgrade kit	50	150
HP 29086A Opt. 046	HP-IB interface upgrade kit	50	150
HP 2671G	80-column thermal graphics printer	1,595 (FBP) 1,640 (US list)	1,695 (FBP) 1,740 (US list)

We regret the necessity of these price increases. For the HP 2932A and 2934A printers, the increased represent a

less than 4 percent rise over the cost of the total printer with HP-IB interface. For the HP 2671G, the increase represents an approximate 6 percent increase. Even with these small price increases, customers will still recognize the excellent value that these printers provide for their investment from Hewlett-Packard.

New price for HP 9876A thermal printer

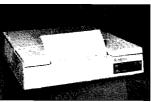
Barbara Bennett-Brown/GLD

Effective April 1, 1986, the new price for the HP 9876A thermal printer will be \$9,500 factory base price and \$9,580 US list. This product is slated for discontinuance on August 1, 1986.

Please contact Al Herder, Greeley Division, 303-350-4378 for further information.

Obsolescence of HP 2671A printer announced

Laird Clow/VCD



HP 2671A thermal printer

Effective June 1, 1986, the HP 2671A thermal printer from Vancouver Division (VCD) will be removed from the Corporate Price List, along with all of its options. This product is the 80-column, 120 cps, text-only

thermal printer introduced in July 1981. The HP 2671A served the needs well for customers who wanted quiet, quality-text printing for technical workstation printing applications. However, a steadily declining order rate, as well as the availability of superior printer technologies, such as those found in the HP ThinkJet printer and other personal printers, have forced the obsolescence of this product. As a replacement product, we recommend the HP 2671G graphics printer, or the HP 2673A intelligent thermal printer, which have all of the capabilities of the HP 2671A, plus additional features such as graphics and added character sets. For customers who don't require thermal printing, the HP ThinkJet printer may be the perfect solution, at a much lower cost.

Last order date for the HP 2671A will be June 30, 1986. Support life for parts and service will be at least five years from date of last customer shipment.

Also in this issue

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Introducing the HP LaserJet 500 PLUS printer	18
HP LaserJet printer toll-free assistance line changed to new toll number	20
Supplies for the new HP LaserJet 500 PLUS printer	20

TERMINALS

HP 2624B terminal to be discontinued October 1, 1986

S. Sundaresh/HPPR

With the introduction of the HP 2394A data entry terminal in July 1985, demand for the HP 2624B display terminal has fallen off sharply. The HP 2624B display terminal will be removed from the Corporate Price List on October 1, 1986. No orders will be accepted beyond October 31, 1986. The HP 2624B will carry a ten-year support life

The HP 2394A does not provide multipoint support. However, customers buying HP 2624Bs because they need multipoint should be encouraged to use HP 2394As with HP 2333A cluster controllers (see *Computer News*, July 15, 1985, page 29).

Finance & Remarketing Division (FRD) will offer refurbished HP 2624Bs. For availability and ordering information, please contact Rhonda Willens at FRD, 408-720-4165.

Last chance to order HP 2627A color graphics terminal

S. Sundaresh/HPPR

A number of sales reps have expressed a need to continue ordering HP 2627As (removed from the Corporate Price List on March 1, 1986). While current demand does not justify retaining the product on the Corporate Price List, HP Puerto Rico (HPPR), in the interest of customer satisfaction, is prepared to produce up to 100 additional units.

Orders for these 100 units will be accepted on a first-come-first-served basis. All orders are non-cancellable and have to be scheduled for delivery by October 31, 1986. Contact the factory for availability information. A HEART override is required to place these orders: PL67, SF15, MKT. DIV. D3, SUP DIV 5600, US list price \$5,975. The HP 2627A will carry a five-year support life.

DMK direct order phone numbers

DMK Fast Phones — the easy, direct way for you to order supplies, accessories, media, furniture, and software from Direct Marketing Division.

Location	Telephone number
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, ext. 258
Finland	(90) 887 2361
France	(1) 69 28 32 64
	(1) 69 28 83 39
Greece	(01) 6726090
Italy	(02) 9236 9702
Middle East	
Athens	(01) 6828811
Norway	(02) 171180
South Africa	
Johannesburg	(011) 8025111
Cape Town	(021) 537954
Spain	(91) 6374013
	(91) 6370011
Sweden	(08) 7502400
	(08) 7502027
	(08) 7502204
Switzerland	(057) 31 22 53
	(057) 31 22 54
	(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

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