

KAYPRO & KUG MOVE AHEAD

Here we are starting a new year and we have many good things to look forward to.

Usually at this time we reflect upon the previous year ... this time we will LOOK AHEAD.

At the recent COMDEX computer show in Las Vegas, we had an opportunity to get a glimpse of what's in store for us in HI-TECH.

Our first stop, of course, was the Kaypro booth. Here we were able to see and operate the new Kaypro 16 (see KAYPRO NEWS). Our first impression was that it was O.K. but perhaps a little late in coming. But as we spent more time with it, it seemed to do everything you asked it to, including the Air Flight Simulator program developed on the IBM computer. Kaypro dealers from all parts of the country were there to try their "IBM Disks" in the Kaypro 16. All that we saw ran well ... and in color on a color monitor.

As we attempted to see the rest of the exhibit booths (13 miles of walking), we noticed Kaypros being used to demonstrate many programs and peripherals. One of them was being used to transmit E-MAIL. The exhibitor was the U.S. Postal System.

Most of the modem manufacturers were demonstrating new 2400 baud software and hardware. After working with 300 baud, that was something to see.

Other future features included better networking between computers and faster and larger hard disk drives. Some of these drives had tape back-ups that could be accessed as another drive.

As for KUG, we had a chance to talk with representatives of MicroPro, Ashton Tate and EMI. That is Wordstar, DBase II and Perfect Writer.

EMI (Perfect) was very co-operative and said they would like very much to work with the Kaypro user. In fact, they are offering a special discounted price on the combination of Perfect Writer, Perfect Speller, and Perfect Thesaurus. See their advertisement inside.

Ashton Tate said that they would work on some promotion to bring DBase II to KUGGERS at a special price. Let's hope.

MicroPro told us to discuss getting WordStar to older users of the Kaypro with the Kaypro Corporation. We have spoken to Kaypro Corporation and are waiting to hear from them. Perhaps?

Meanwhile, we at KUG make the following New Year's Resolutions:

...KUG will continue to publish your letters of help and encouragement to other KUGGERS.

...KUG will continue to publish articles and programs for the Kaypro computer.

...KUG will continue to publish reviews and news of third party vendors.

Remember, all of these promises can be fulfilled with your help ... so keep those letters coming.

"Better check the mail, the KUG Krystal Ball is getting hazy"



Box 100



Dear KUG,

Here are two easy solutions when you fail to save a Perfect Writer [or Wordstar?] file due to certain error messages on drive B, e.g., "Write error" because the disk is full or has a bad sector. Sneakily, you can always write your file to drive A, even if disk A is full! For example, if disk A contains PF.COM (Perfect Formatter), write your file in its place with the Write File command: CTRL-X, CTRL-W. In response to the prompt, name your file—here's the sneaky part—A:PF.COM. (The A: makes sure your file goes to drive A, even if you are logged onto B.) Then from CP/M rename your fake PF.COM, copy it to another disk, erase it from disk A, and restore the real PF.COM from your master disk. This method avoids retyping your file from printed output as suggested in Vol. 2, no. 6, page 8. Comparable methods may work in Wordstar.

This trick works for files up to 35k, the size of PF.COM. Larger files can be saved in pieces by similarly overwriting other files on A: PP.COM (23k), MENU.COM (22k), even PW.COM (35k), but avoid PW.SWP. It is easiest to write the pieces by defining them with Set Mark (ESC...SPACE) and the cursor, followed by the undocumented command, Write Region (CTRL-X, R, then the appropriate A:filename). The Status command (CTRL-X, =) permits adjusting the piece size.

For "Bdos error on B:R/O," as discussed by Ron Friedrich, or if a power failure, keyboard lock-up, or premature Restart (cold boot) prevent you from saving a file, then your only recourse is to print out your Swap file by Ron Friedrich's method in the above reference, or, more easily, to translate your Swap file to disk using SWPREAD, READ-SWP or similar corrected version of Edmund Bolles' utility (Vol. 2 no. 2; KUG disk #123). Wordstar does not permit a comparable rescue.

Don Davis
5603 Bull Creek Road
Austin, TX 78756

Dear KUG,

I would like to echo a hearty agreement with Dottie Day's review of The BACKGROUNDER by Plu*Perfect Systems in the Volume 2 No. 4 issue. I agree it is a "must" software, especially for Perfect Writer users. One of its best features is to allow us PW'ers to put those long format commands on a single key! Before I had Backgrounder and typed "@BLANK-SPACE[2 LINES]" I found that about 5% of the time I would make some mistake, and formatter would ask what I meant by "BLNAKSPACE." Sound familiar? I have about 50 format commands each attached to a single key: center, include, newpage, Begin/Verbatim, End/Verbatim, etc. When typing I format easily as I go along. Best of all, once checked out, I KNOW I didn't make any typing errors!

In the Volume 2 No. 6 issue, there were several letters on which I would like to comment regarding use of the Backgrounder, and/or the Plu*Perfect Writer, also by the same company.

David Weckler's reference to a "Keyboard definition package" could also be met with the Backgrounder, and have all those special background functions as well. Ron Friedrich's frustration about "Read Only" need not happen when Plu*Perfect Writer is installed because disks can be CHANGED while editing! (Also allows making back-ups just by alternating two disks while editing.) Stan Strick could put his Ctrl-^ on one Backgrounder key, and with Plu*Perfect Writer he could get the disk space remaining without exiting to CP/M (by typing Ctrl-X ?), or he could exit to CP/M through the Backgrounder without losing the PW. Rich Bruski could put his WordStar ^K^S^Q^P command on one key with Backgrounder. Richard Hudson could put his quick print routine "A:PF -P -VERBATIM \$1" on a single key, and Joe Cobb could use Backgrounder instead of having to make submit files. The uses are endless.

Both Backgrounder and Plu*Perfect Writer can be ordered from PluPerfect Systems, Box 1494, Idyllwild, CA 92349.

Walter J. Schneider, Ph. D.
1751-213 W. Citracado Parkway
Escondido, CA 92025

Dear KUG,

If you are using a Brother HR-15 printer and like me cannot afford a cut paper feeder, there is a way to "semi-automatically" feed the paper. The secret is to define one of the WordStar user-defined functions (^PQ; ^PW; ^PE; or ^PR) as 11 hex, which when received puts the printer in the deselect state. I used ^PW (don't ask why; it's a long story). ^PW is placed at the beginning of each page automatically by putting it in a heading using the dot command .HE. Remember that the top margin must be 1 or greater. When the document is printed, the printer stops at the beginning of each page and starts only after the deselect/select button is pushed again. This gives you a chance to load a new sheet of paper using the automatic single sheet load feature of the printer. Some playing around with the page length may be required. If you want to print at the very top of the page, the paper will have to be moved up manually after loading.

Because the separate sheet option is not used, <ESC> can be pushed after entering the file to be printed, and each time a page is printed you need not push "P" or ^KP to continue printing. Finally, because the printer stops before the START of each page, the printer need not be loaded with paper before the message to print a file is entered in WordStar. I have put the printer as far away from my Kaypro as possible because I generally edit and print at the same time. This modification may seem trivial, but it saves me some moving back and forth between the printer and the computer.

The same principle can be used with other printers and even with Perfect Writer.

By the way, my Kaypro came with Perfect Writer and WordStar. For over 6 months I have used both systems. Each has its advantages and disadvantages, but now I only use Perfect Writer to do certain special tasks because I am tired of fighting with Perfect Formatter. WordStar is not nearly as powerful, but WordStar's greater flexibility makes up for it most of the time.

Robert Morgan
219 Chester Ave.
Montreal, Canada H3R 1W4

Dear KUG,

R.J. Wilson's article "Math with PF" has opened up whole new horizons for me. Not only can his concept deal with math, it can be used to manipulate the database in many ways.

One of the steps in his procedure, probably the most time consuming and difficult, can be eliminated. Substitute for line 110:

```
110 IF N > 0 THEN N = N + 1
```

Then you need not edit out the double commas, but can run the program directly from the B:NUMERIC.LST file. The counter will ignore blank or zero entries.

Martin Friedman
204 Wilsey Court
Paramus, NJ 07652

* * *

Dear KUG,

In Vol. 2, no. 2 you published my letter recommending a formula to allow Perfect Calc to accumulate numbers from a column. Unfortunately, this formula will cause an unrecoverable error when the file is saved and re-loaded.

I'm sorry if my spontaneous recommendation has caused readers a great deal of trouble. Considering the quality keyboard and number keypad in particular, it seems that a spreadsheet with this capability would be a good selling point for Kaypro.

Dave Miller
11422 S.E. Alder St.
Portland, OR 97216

WP Tip

When typing a letter end it with @newpage or .pa or \E. The very next page will contain the name and address for the envelope. Mark off the inside address as a block and copy (don't move) it to the last page of the letter file. Use tabs to position the lines where you want them on the envelope. Or, leave the lines at the left margin for printing on a label. Make sure you turn off the continuous forms default before printing.

Git Yer Wooden Nickels

What can you get for a nickel? It depends on what kind of nickel we're talking about. If it's the kind that you get from your local bank, don't even count on a newspaper. If it's a Kaypro wooden nickel, it's worth \$25.00 at the Kaypro General Store. (This nickel won't buy a newspaper either.)

To get one, or two, or three and perform a public service for your friends, tell them about your Kaypro. If one of them decides to purchase a Kaypro for their very own selves, for their businesses, or for their spouses, you've just about earned your nickel.

The Kaypro General Store is represented by a catalog of "gifts" that your local participating Kaypro dealer has and can exchange for your "nickel." Ask him to show you the catalog. Some dealers carry inventory of these special items and some do not. If you have to order from the catalog or direct from Kaypro, it will take some time to receive the merchandise.

For each Kaypro purchased on your referral, you earn one wooden nickel which can be "cashed in" for such prizes as hats, jackets, T-shirts, pens, clocks and other usable gifts. To claim your prize, you must submit to Kaypro a form that has been filled out by you, the new owner, and the dealer.

Since this is a KUG promotion, you must mention the name of your local KUG on the form. If you do not belong to any local KUG Chapter, you may use our KUG by writing "KUGRAM" on the application form.

You may request blank "Wooden Nickels" forms by writing to:

WOODEN NICKELS

Kaypro Corporation
533 Stevens Avenue
Solana Beach, CA 92075

1984 Index is Ready

The new 1984 KUGRAM Index by Jerry Cleveland is now available.

The 12-page Index can be ordered separately or with the sturdy familiar yellow and black KUGRAM Binder. You may also order the complete set of 1984 newsletters, Index and Binder.

The prices (U.S.\$) are as follows:

1984 Index only	\$3.00
1984 Index and Binder	\$8.00
1984 KUGRAMS, Binder & Index	\$25.00

The above prices also apply to the 1983 Index and KUGRAMS.

Back issues of all KUGRAMS are still available at \$3.00 (U.S.) each.

NewWord Offer Extended

A recent Rocky Mountain Software mailing, offering NewWord for \$100.00 for a limited time, may have gotten caught in the holiday crush. Therefore, Rocky Mountain has extended the deadline to February 28, 1985.

WP Tip

CP/M accepts only 64 directory entries per disk. When you have a great many short files, you could end up with lots of k's that are unusable. To save directory space, keep a number of short similar files together under one filename. For instance, if you send similar letters to various persons at different times, place each one on a separate page of the "document." You have saved a number of directory entries.

TIME to RENEW ?

ALL Back Issues in Stock

PROFESSIONAL TIME, BILLING AND MANAGEMENT SYSTEM

Desktop Time & Billing provides management control of unbilled time, disbursements, receivables and cash flow. It reduces administrative/clerical tasks and increases billable hours—maximizing profitability.

10. *Journal of the American Statistical Association*, 93, 1998, 1039-1047.

05/15/92 SUMO, BELLS AND SPINER				Cricket/Care Summer		PAGE 3	
Cricket/Care SPS 10-00 Grass Flying Service				Job Description 002203-00-01			
***** SUMO *****				EXPENSE	LABOR AT	***** PROFIT *****	
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05/15/92 SUMO, BELLS AND SPINER				Cricket/Care Summer		PAGE 3	

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Orders, Questions, and Literature Requests CALL NOW, TOLL-FREE

Two Printers - One Kaypro

By defining a new output port using PW's PFCONFIG.COM, we have the advantage of two printers (a dot matrix and a letter quality) continuously plugged into the KAYPRO II with no need to swap disks to direct printing to one or the other. Printer selection is done from the printer options menu of Perfect Printer.

Since our letter quality printer (LQP) serial interface uses the "Clear to Send" line for handshaking, only one port definition had to be added to the PW Edit disk. This is done as follows:

Make a copy of your PW Edit disk (with PF.DAT on it) and place it in drive A. Place the PW Configuration Disk (with PFCONFIG.COM) in drive B. Cold boot. At the "A>" type B:PFCONFIG <cr>. You will see a page of information on the screen. Because you have the editor disk in drive A, the logged drive, answer N(o) to the question about changing disks.

A second page of information will appear. This page describes how to use Ctrl-G to escape from any place in the program. Type any character to continue.

A third page of information and the "Configuration Program Master Menu" will appear. Select #1—Define input/output port usage. This produces the "Port Definition Menu." Note that we want to set up an output port for a serial printer that does not require a synchronization protocol. Selecting option #1 will produce a list of ports already defined, e.g., Console Out, Console In, Printer 2.2, Printer Out.

Select #2 to enter a new port description. Answer the questions as follows:

- Name of port to be defined: Serial Out (Note that there is a space between Serial and Out.)
- Use CP/M (BIOS) input/output? N
- What is the port address of this peripheral's data port (in hex): 4 <cr>
- Should the high order bit of data bytes be masked out leaving seven bits of data? Y
- Use CP/M BIOS for status determination? N
- What is the port address of this peripheral's status port (in hex): 6 <cr>

- Ready mask (in hex): 4 <cr>
- Ready when non-zero? Y

Now the program will return to the Port Definition Menu. Select #3 to review or change your definition or #4 to delete a port definition. When you have defined Serial Out per the above procedure, select #6 to return to the Master Menu and #6 again to save your definitions onto the disk in drive A and warm boot.

To use this port, you must have a printer properly connected to the J4 connector and you must have a proper "device" defined to format text for that printer. We use this setup to prepare documents as follows: Our default device definition is for the parallel printer and the default port is the LPT (standard assignments). Document editing is done in a normal manner and draft formatting and printing is done using the default assignments on the PF and PP menus. This directs documents to be formatted and printed on the parallel interface matrix printer.

When a document is selected for letter quality printing, the D option (to format for a different (D)evice) is used at the PF menu, (LETTER10, for example). PF now produces a ".FIN" file using LETTER10 specifications rather than the default specifications for the matrix printer.

When PP is invoked, the O option (to direct printing to an (O)ther port) is selected. At this point indicate the "other" port as "serial" (not serial out). Now the printing will be directed to the device connected to the serial port. To reassure you, PP displays a message showing what device has been invoked to format the document, and which port it is being directed to.

Note: The installation described above was done using PW ver. 1.20 on an "old" KAYPRO II, the kind with only one serial connector (labeled J4 SERIAL I/O) on the back. The serial printer interface on the LQP connects to J4 pins: 1-ground, 2-transmit data, 5-clear to send, and 7-signal ground (i.e. Clear to Send is used as a handshaking signal).

Mike Drooker
RFD 1, Box 2180
Sanbornville, NH 03872

Printer Program

Since my printer (a NEC 8023) doesn't seem to make good line feeds on envelopes, I wrote a short program which would make my printer act much like an ordinary typewriter. Since it uses procedures and the WHILE loop in S-BASIC, I thought I'd share it with KUG.

PROGRAM TO MAKE A PRINTER A TYPEWRITER.

```
VAR CR, LF=CHAR
VAR Clear.screen, EOF=CHAR
```

```
CR = CHR$(13)
LF = CHR$(10)
EOF = CHR$(26)
```

```
Clear.screen = CHR$(26)
```

PROCEDURE set.up

```
VAR incremental, pica, elite=STRING
VAR condensed, enlarged=STRING
VAR normal, enhanced, unenhanced=STRING
VAR Choice=INTEGER
```

```
REM Initialize printer strings
incremental = CHR$(27)+CHR$(91)
pica = CHR$(27)+CHR$(78)
elite = CHR$(27)+CHR$(69)
condensed = CHR$(27)+CHR$(81)
enlarged = CHR$(14)
normal = CHR$(15)
enhanced = CHR$(27)+CHR$(33)
unenhanced = CHR$(27)+CHR$(34)
```

```
PRINT #1; incremental;
```

```
PRINT Clear.screen
```

```
TEXT 0,&
```

```
OPTIONS
```

1. Pica
2. Pica enhanced
3. Pica enlarged
4. Pica enlarged and enhanced
5. Condensed
6. Elite
7. Elite enhanced

```
ENTER YOUR CHOICE &;
```

```
INPUT2 Choice
```

```
REM Set printer to choice
```

(continued)

CASE Choice OF

- 1 : PRINT #1;pica;unenhanced;
- 2 : PRINT #1;pica;enhanced;
- 3 : PRINT #1;pica;enlarged;unenhanced;
- 4 : PRINT #1;pica;enlarged;enhanced;
- 5 : PRINT #1;condensed;
- 6 : PRINT #1;elite;unenhanced;
- 7 : PRINT #1;elite;enhanced;

```
END
```

```
END of set.up
```

PROCEDURE type

```
VAR c, go.set.up=CHAR
```

```
REM go.set.up is CTRL_G
go.set.up = CHR$(7)
```

```
INPUT3 c
```

```
WHILE c <> EOF DO BEGIN
```

```
IF [(c = CR) OR (c = LF)] THEN
```

```
BEGIN
```

```
PRINT #1; CR;
```

```
PRINT #1; LF;
```

```
PRINT
```

```
END
```

```
ELSE IF c = go.set.up THEN
```

```
set.up
```

```
ELSE
```

```
PRINT #1; c;
```

```
INPUT3 c
```

```
END
```

```
END of type
```

PROCEDURE end.up

```
END
```

```
VAR nonincremental, pica=STRING
```

```
VAR normal, unenhanced=STRING
```

```
REM Initialize printer strings
```

```
nonincremental = CHR$(27)+CHR$(93)
```

```
pica = CHR$(27)+CHR$(69)
```

```
normal = CHR$(15)
```

```
unenhanced = CHR$(27)+CHR$(34)
```

```
PRINT #1; pica; unenhanced;
```

```
PRINT #1; normal; nonincremental
```

```
END of end.up
```

```
REM start of main program
```

```
set.up
```

```
type
```

```
end.up
```

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END
```

Karl Rehmer

231 N. High

Carlinville, IL 62626

10 Powerful Reasons for Kaypro Owners to Stop Using Their Old Perfect Software.

The Perfect™ Software that came bundled with your Kaypro® was good. But now, there's a whole new Perfect Software 2.0 series—Perfect Writer™, Perfect Calc™ and Perfect Filer™ programs—that's even better.

1 New Perfect Software 2.0 is easier to use.

e point. Write so people can read and under-
kly. The purpose of anything you write shou
he start. Say it all clearly now so you don
later.

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  Forward
d. Think befo Backward
you begin.    Text marking
              Cut
ic. Place imp Paste
derline sente Appearance
              Search
              Repeat
              Documents
              Operation
              Exit PW
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Perfect Software 2.0 features pop-up menus that use simple English language words. You can handle every function with the touch of a single key-stroke, so you never have to memorize complicated commands again. And because Perfect programs share common commands, you only have to learn one to know how to use them all.

2 New Perfect Software 2.0 is more convenient.

Now you can handle important document utilities, plus move from one Perfect program to another, without having to exit to CP/M.® That saves you time!

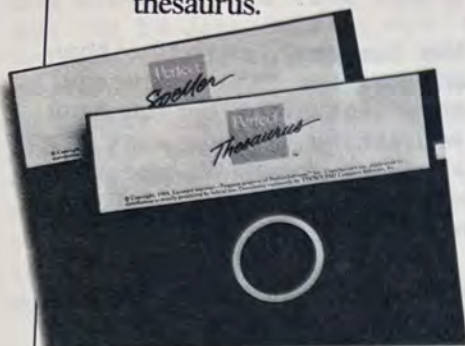
3 New Perfect Software 2.0 is backed by comprehensive customer support.

Answers to your technical questions are as close as your telephone. Just call our special customer service number and get instant help!



The New

4 The new Perfect Writer program comes with a spelling checker and thesaurus.



They're both included with the program! The Perfect Speller™ disk helps you prevent spelling mistakes. And the new Perfect Thesaurus™ disk helps you choose exactly the right word for what you're writing. So now it's easier to write better.

5 Format and print your document in one simple step.

Just select the print option, and automatically format your document at the same time. And Perfect Writer features support most popular printers, too.

6 The new Perfect Filer program lets you build larger databases. And store them on one disk.

room for more information. And you can store up to 16 databases on one diskette.

7 The new Perfect Filer program is more versatile.

You can manage your information like never before. Sort records according to nine different criteria, alphabetical and numerical. Plus, you can automatically transfer data between files.

```

1      a      b      c      d      e      f      g
2
3 2SALES INTERNATIONAL
4 3Yearly Sales
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NAME	SOC	SEC	NO	QUARTERS				
				1ST	2ND	3RD	4TH	1ST
Wilson, Robin	123	34	6789	1000	2000	2500	3000	1000
Jones, Mary	371	23	2345	1000	2000	2500	3000	1000
Scott, Kevin	5				2000	2500	3000	1000
Murphy, Sam	5				2000	2500	3000	1000
Mills, Cathy	6				2000	2500	3000	1000
Smith, Joy	4				2000	2500	3000	1000

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```

Memory available: 29820 (91%)

You can transfer data from your Perfect Filer database to a Perfect Calc spreadsheet and use it to develop projections, reports and analyses.

8 Use Perfect Filer data to build your new Perfect Calc spreadsheet.

Here's capability you never had until now. Use the Perfect Filer program to enter and sort alphabetical and numerical data. Then, you can transfer the data to a Perfect Calc spreadsheet, without any modification, and use it to develop sales reports, projections—virtually any kind of analysis.

9 Regional recalculation saves you time and keystrokes.

Spreadsheet operation has never been so simple. With regional recalculation, you can change some numbers, without changing them all. What's more, you can move blocks of data around your spreadsheet without having to rekey information.

10 New Perfect Software 2.0 is easier to get.

Now the best news of all. The new Perfect Software 2.0 family is available now at a special price just for Kaypro owners. Just send us your old master diskettes and we'll send you the new Perfect program of your choice. Do it today—and start working faster, easier and better!

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On-Line with WordStar

Wordstar is extremely popular because it is a very flexible word processor. It may lack the variety of formatting and editing commands that Perfect Writer possesses, but it more than makes up for this lack in its ability to format text on-screen and eliminate large expanses of whitespace by hyphenating words.

One irritation in Wordstar files, however, results from its use of non-printable control characters to regulate printer functions. When one displays files on screen with the CP/M TYPE command, either control characters (e.g. ^S), or strange graphic symbols appear, and sometimes unanticipated results are produced. (Ever have a Wordstar text print over itself when you tried to read it outside of the program?)

This means that Wordstar files cannot be easily used or modified by other word processing programs. Nor can files be transmitted to publishers for editing and printing unless that publisher also uses Wordstar. Finally, they cannot be used as on-screen readable files to document software or convey other information without hard copy. Of course, such files can be created with Wordstar's "non-document" mode, but then the advantages of Wordstar's on-screen formatting (hyphenation and right justification) must be given up as well.

With a very little extra work, however, Wordstar files created and formatted on-screen with Wordstar's "document mode" can be made into on-screen readable, standard ASCII text files without losing right-justification or hyphenation. This allows the files to be used for all the above purposes.

[1] First, create the file exactly as you want it printed on the printer. You will be making a modified copy of this file, so no modifications need to be made to the original.

[2] Now prepare to print a second copy of the file with the page numbering turned off, and the printer offset, top margin, bottom margin, header margin and footer margin all set to 0.

This can be accomplished with a Mailmerge command file in which the last line is a ".fi filename" command to print the file or by adding six command lines (the only modifications required) to the beginning of the file.

[3] Now print the document, using either the "P" command or the "M" (Mailmerge) command. When the first print option menu question appears, asking if you want to create a disk file, answer Y, and then give a name to the file. Press ESC to bypass the other questions.

[4] After the new file has been written to disk, enter it with the "document mode"—D—and the filename. You may want to change the spacing (e.g. from double to single spacing for ease of on-screen reading). You may also want to right justify an originally unjustified document for attractiveness and ease of on-screen reading. Be sure your hyphen help is turned off. (Your previously entered hyphens will remain.) Reformat all paragraphs to their new on-screen parameters. Save the file when you are done, and exit to CP/M.

[5] Now the simple secret: Use the CP/M utility PIP.COM to copy the file. Add the "Z" parameter to strip all control characters from the file, e.g. PIP A:=B:FILENAME.TYP[Z]

If you have a number of related files, such as the chapters of a book, you can copy them all at once (perhaps to another disk) using PIP with wildcards, e.g. PIP A:=B:CHAPTER*.TXT

In the new file, all soft hyphens at the end of the lines will be changed to hard hyphens, and all soft spaces used in right justification will be changed to hard spaces. Thus right justification and hyphens will be retained! Moreover, all special printer commands (e.g. underline, boldface, etc.) will be stripped, leaving only the standard on-line readable characters to appear on the screen. This allows the file to be used either on-screen or by other word processors without alien characters to get in the way.

Stephen A. Dinan
205 South Jefferson St.
Waterford, WI 53185

A View of AI

By David Smith

One summer in the late 1950's, a group of men led by John McCarty now of Stanford University met to discuss the possibility of using the still very new and primitive abilities of digital computers to model the human brain. Out of this conference came a discipline now known to the world as "AI," Artificial Intelligence, which is perhaps the most talked-about and least understood discipline in all of computer science.

At the practical end of the spectrum is the research into vision and robotics. There is much basic engineering in these areas which is not AI. In vision, from the AI standpoint, the emphasis is on "making sense" out of what is "seen," an extraordinarily difficult process requiring vast amounts of peripheral capability, memory and logic. The likelihood of anything emerging which is useful to engineers in the near future is small. Although robotics is enjoying considerable commercial success, the machines currently available can hardly be described as "intelligent."

In the center of the spectrum between the extremes of basic cognitive research and strictly mechanical activity is the area of reasoning and expert systems. This area is extremely attractive to both engineers and home computer enthusiasts because it offers the opportunity to address problems which conventional programming techniques are unable to deal with. For example, most organizations depend on only a few experienced experts for difficult decisions. Their contributions, however, are often limited either by the time needed to solve a succession of problems or by spatial considerations of travel to remote locations. "Expert systems" provide the opportunity to record that expertise for current and future generations.

However, much of the decision making and problem solving that we do routinely cannot be expressed as a sequential series of steps in the manner that a normal program expects. Rather, they are expressed as a large collection of rules of the form:

IF (some circumstance) AND (some other)
AND NOT (a third condition) THEN (do
this), (remember this), (try this next).

An expert does not repeatedly search the whole list of such rules looking for the right one. Rather, the circumstance he observes reminds him of the rules associated with that situation. When the conditions satisfying a particular rule are fulfilled and it becomes the most important thing to do, the rule is used. By accumulating enough rules about how an expert reaches conclusions, one can develop an "expert system" which enables the valuable decision-making abilities of one expert to be recorded, automated and distributed. Many fields including that of medical diagnosis already have some highly successful expert diagnostic systems available.

In the area of programming languages, the early AI researchers realized that a new approach was needed in order to deal with the concepts involved in AI. They adopted LISP, a list processing language with some interesting characteristics and three large drawbacks. LISP is the only language I have ever used which contains more parentheses than useful code. It also has the unique property that unless a programmer is very careful, the code he writes one day will be totally incomprehensible a few days later even to him. Perhaps its most serious drawback, however, is its voracious appetite for both memory and computing power. There is currently a thriving market in LISP machines specifically designed to execute LISP code very efficiently. They are still, however, priced beyond the reach of most home computer buyers.

There is an alternative. A language called OPS-5 has been developed under Government sponsorship based on the list processing ability of LISP but without many of its problems. A micro version of OPS-5 is now available for CP/M systems to give CP/M users the ability to develop rule-based systems of their own.

OPS-5 is available for \$75 from:

Dynamic Master Systems, Inc.
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Dave Gerrold, Profiles Magazine

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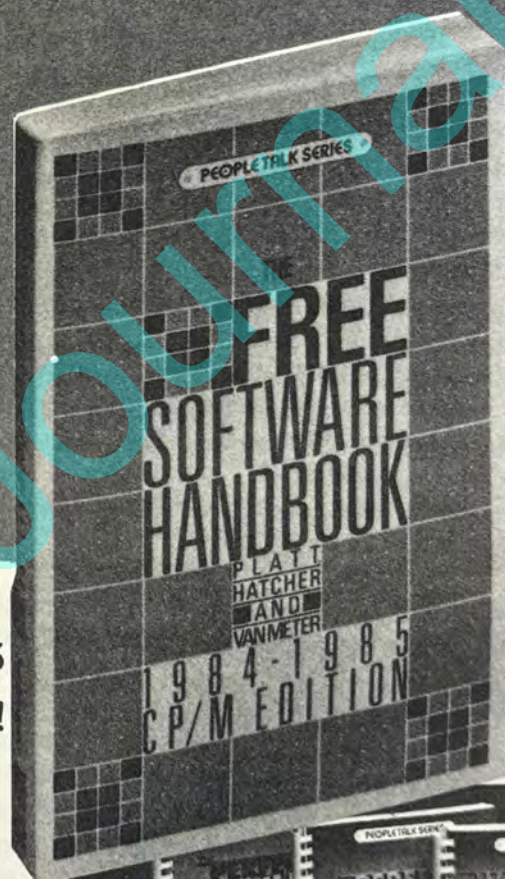
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Rembrandt

by Jack Ellis

The first of Rembrandt's primary tools is K Board—the drawing mode. Each number key (0-9) becomes a shape that can be placed anywhere on the 80 column by 24 line screen—one shape at a time. There is also a repeat command that lets you "paint" a shape with the cursor keys, and at any time you can switch to the "graphic" menu to redefine any of your ten keys, choosing from a chart of over 150 different shapes. I would have liked Rembrandt to display the key definitions at the bottom of the drawing board screen.

Corrections are made by overwriting with another shape. Other features include defining shapes for reverse video, flashing, underlining, and half-intensity (effects that really enhance graphics), switching into text mode to add words and numbers, and block commands to move images around the screen.

K Graph is a tool for drawing charts and graphs. It's much faster to use than K Board because you're not really "creating," you're "filling in the blanks." Rembrandt provides the overlay charts; you just add numerical data, parameters, labels and titles. Pie and bar charts and scatter graphs can be completed with information from existing databases or spreadsheets.

K Brief is the last of the three tools, and Rembrandt's masterpiece. By writing a simple "command" file with your word processor, you can have artwork, charts, even text screens, appear sequentially. You determine how long each screen is displayed, and how one screen moves to another—from nine options, including fades, wipes, curtains, spiraling out from the center, etc.

Any picture you make with K Board or K Graph can be saved (2K memory for each), called up and re-worked at any time, enabling you to build an "electronic portfolio" for future use. The program is available from DG/Systems, 23145 Bigler Street, Woodland Hills, CA 91364 for \$79.95 (for all Kaypros with graphic capabilities).

Two Books for the Kaypro

by Sally Fernandez

The Compleat Kaypro by Steven Frankel is the first guidebook to the Kaypro computers. It combines "how-to" information with a comprehensive set of software reviews. This book is designed to complement the Kaypro Owners' Manuals by explaining points not adequately covered or which many owners miss.

Much information in the first half of the book is targeted for new owners and comes from his work with local Kaypro users' groups. The major emphasis of the second half of the book is helping the user select additional software. This section contains more than 45 reviews of software for word processing, spelling and word use checking, CP/M enhancements, communications, spreadsheet and statistical analysis, accounting and tax preparation, and file and data base management.

In addition, readers learn how to get an entire library of CP/M utility programs free for the asking.

CP/M for the Kaypro with an Introduction to dBASE II by James T. Perry and Robert F. McJunkins introduces newcomers to the CP/M system and shows seasoned users the advanced capabilities of Kaypro computers.

Managing data becomes less intimidating as you become familiar with the commands and utilities available. You'll find examples of actual CP/M sessions and learn what to expect when commands are executed, stopping off at convenient points to try your hand at the keyboard. Careful! Error situations are even built in so that you will learn how to avoid mistakes.

Perry and McJunkins also give you a complete overview of dBASE II and the commands and routines you need to use it effectively.

Each book is available for \$16.95 from Reston Publishing Co, Inc., 11480 Sunset Hills Rd., Reston, VA 22090.

Scriptor

A Review by Mark J. Silvermetz

SCRIPTOR is a well-documented, easy-to-use program that takes the sting out of manually formatting scripts for feature films, TV movies, variety shows, and one-hour dramatic series. Designed by Stephen Greenfield and Chris Huntley, each a professional screenwriter and programmer, SCRIPTOR frees you to concentrate on the important stuff—such as creating characters and plot!

SCRIPTOR's easily customized features can, at your discretion—

- * Automatically number, re-number, or remove numbers from any or all scenes, shots, or pages—even using "B-numbers" if you wish;
- * Automatically remarginate slug-lines, action, dialogue, parentheticals, etc. to your specifications;
- * Page-break dialogue at the end of a sentence, and even insert (MORE) under the broken dialogue and <CHARACTER'S NAME> (CONT'D) on the next page before formatting the remaining dialogue;
- * Insert top and bottom "CONTINUEDs," with the option of numbering top "CONTINUEDs";
- * Accommodate multiple and single "OMITTEDs," simultaneous dialogue, directorial notes, page headings, and act breaks;
- * Strip off top and bottom "CONTINUEDs," page numbers, and other page constructs, easing massive revision; and do much more.

Using SCRIPTOR is a breeze: You write your script with your favorite word processor. As you write, you keep each screenplay element—scene description, dialogue, etc.—in the same column unique to its category. You omit page breaks, page numbers, page headings, top and bottom "CONTINUEDs," and embedded formatting codes such as WORDSTAR's "DOT" and "^P" commands.

(continued)

If needed, you use SCRIPTOR's optional formatting codes (such as paired underscores for "underline this" or paired, embedded "^Fs" for "ignore this region").

Then, you close the file and invoke SCRIPTOR. SCRIPTOR's menu-driven system eases you through the formatting and re-formatting of your script, creating a new copy to your specifications. To revise the script, you make the changes with your word processor, then re-invoke SCRIPTOR. If SCRIPTOR finds text with errant margins, its superb error-trapping system asks what you want done; you answer, and BLAM! SCRIPTOR continues formatting your script to order.

At any time, you can send the copy to file or to printer. And SCRIPTOR lets you control over 30 variables related to screenplay format: In addition to those mentioned above, you can for example opt to have numbers printed on the left side, the right side, both sides, or neither side. Whatever format you choose, SCRIPTOR turns out clean, professional copy.

SCRIPTOR currently formats scripts for feature films, TV movies, variety shows, and series using the one-hour, dramatic script format.

Though SCRIPTOR is already a speed-demon, Mr. Greenfield says he's in the process of converting it from Pascal to C, which he claims will speed-up SCRIPTOR by at least 45%. Subscribers will be sent updates as they become available, for a nominal fee (under \$25, promises Mr. Greenfield).

SCRIPTOR quickly pays for itself in time saved, energy conserved, and frustration avoided. For those who don't yet have a microcomputer, SCRIPTOR is reason enough to get one. SCRIPTOR will prove most valuable during revision, and especially valuable for those required numbered scenes or shots. Of course, you'll still have to WRITE the script, but SCRIPTOR makes the writing and re-writing fun again!

SCRIPTOR ... \$295.00
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Regarding this coiled retractable cord: Don't be fooled by cheap imitations. This cord has been specially manufactured to match the unique electrical requirements of the Kaypro computer and meets demanding Kaypro-like specs. It is guaranteed to work with every model Kaypro II, IV, and 10. Don't settle for less from copycat advertisers. Other cords will fail and may hurt your system. Order your free cord today.

This free offer applies to any 2 or more separate items. For example, a Kaypro Quality Cover and one template equals 2 items; 2 templates equal 2 items, but a single box of diskettes is one item. We must reserve the right to end this offer. Don't be disappointed, order today. 12 foot cords sold separately at \$12.95 per cord.

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The Kaypro manual states, "Line filtering will protect your Kaypro...from power surges or other undesirable occurrences from the power source." Surge protection will help your Kaypro provide years of trouble-free service. Also, if you plan to use your Kaypro to access information by modem, you must have a reliable high frequency noise (EMI/RFI) suppressor to insure against data loss and scrambling.

There are many "toy" surge suppressors on the market. They are smartly colored, but beware. The performance difference is amazing. The best surge and noise suppressors on the market are made by Panamax. Our "Panamax Challenge Certificate" tells all. It is a startling comparison of Panamax quality with 11 other well-known brands. One aspect of this revealing report tells how Panamax responds to and cuts surges in 5 or less pico seconds, while most other suppressors respond at a comparatively slow 5 to 50 nanoseconds!

Check our regular low prices. Try the Panamax of your choice for 15 days. Receive the "Panamax Challenge Certificate" with your purchase. If not completely satisfied with your purchase, return for immediate full refund. Your Kaypro deserves Panamax protection, the best there is. Order today.

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your keyboard, software commands are only a glance away, at your fingertips. This makes it easy to learn programs that come with your Kaypro. Stop going back to the book to get a software command. Now you can learn software commands super fast, so you can make better use of your powerful programs. The expertly organized Wordstar/Mailmerge template, for example, gets you into word processing in half the time. A special dBase II template cuts through the learning curve like a knife and gets you programming sooner. Kleertex templates for CalcStar, Perfect Writer/Filer and Perfect Calc get you moving fast on these programs too. Once you try Kleertex templates, you'll wonder how you ever got along without these useful tools. Central's special price for one template is \$17.95. Choose any two templates for \$34 and save. If you like, you may combine purchase of any of these four templates for super savings. Complete satisfaction is guaranteed or money-back. Makes learning software a breeze. Great value. Order today.

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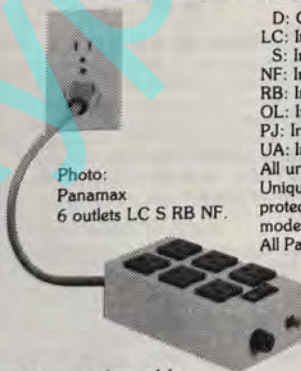
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D: Connects direct to grounded wall jack.
LC: Includes 6 foot long heavy duty line cord.
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P.C. Magazine, March 1983

Photo: Form fitting Kaypro cover.



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Free with Combo Pack

Peter McWilliams, William Buckley, Steven Frankel, and a cast of thousands rave about how **SmartKey II** speeds up and improves accuracy in computing by reducing often used multiple keystrokes to single keys.

SmartKey II lets you easily reprogram as many upper and lower case keys on your keyboard as you want, even while WordStar, CalcStar, dBase II, Perfect Writer, or any other software is in operation.

Uses for this powerful, easy-to-operate program are endless. With SmartKey II you can assign thousands of characters to a single key. Once you have redefined keys, you can put them to work or change them at will. You can also store your "smart key" definitions in a special file and use them later, or make numerous definition files to use with a variety of your favorite programs or projects. Imagine saving complex command codes, boilerplate paragraphs, sentences, names, inventory numbers, or whatever, and then injecting any of them into your work with the stroke of a single key. This is a must-have, time saving computer program for all busy Kaypro users.

SmartKey II has a little known super companion program called SmartPrint II. SmartPrint II retails at \$49.95. SmartPrint lets you give single-stroke commands to your dot matrix printer to make it produce italics, graphic symbols, boldface, underlining, extended typefaces, accent marks, and much more. SmartKey II retails at \$89.95. Now, for a limited time only, Central's SmartKey II Plus and SmartPrint II Plus **combo pack** is only \$79. In addition, as a bonus, with your purchase you will get a free copy of Paul Golding's book, *Screen Smarts, The Computer Tamer's Guide*. This book is a \$15.95 value. It tells how Mr. Golding, a professional writer, uses SmartKey II to turn his humble computer into a supercharged dedicated word processor. Please don't delay, this offer may not be repeated. Order today to get SmartKey II Plus, SmartPrint II Plus, and a free copy of the newly revised edition of *Screen Smarts, The Computer Tamer's Guide*, lightning fast.

Warning: SmartKey II makes lesser programs look dumb, dumb, dumb. Comes with step-by-step manual.

Stop Tearing Up Your Disk Drives

If you're using your Kaypro as a printer buffer instead of a computer, you may be tearing up your disk drives. Disk drives are mechanical devices, they are often the first parts of a computer to go sour. No wonder. Everytime you feed your printer a file, the drives whirl madly until the printer has accepted the entire file. Sometimes this takes a long, long time.

If you're tired of hearing your disk drives grind down, you need a printer buffer. The best performance and price buffer on the market is the Consolink MicroSpooler. This computer-like tool absorbs files as fast as your computer can send them, and then patiently feeds or spools them to your printer a few bytes at a time.

The MicroSpooler is an intelligent, feature-packed buffer. It is easy to install and operate. Merely place it between your computer and printer, then connect it with two cables, and feed files as large as 64K within seconds to your letter quality or dot matrix printer. The instant the transfer is complete, you can operate your computer again. The MicroSpooler does the rest.

The MicroSpooler comes in a variety of configurations. You can link your Kaypro to any popular printer with two inexpensive cables. Please check our low MicroSpooler prices. You won't find a more feature-packed or reasonably priced spooler around. Try the MicroSpooler of your choice for 15 days. If you are not completely satisfied with your purchase, return it for an immediate full refund. Your Kaypro deserves this attractive and useful accessory. Order a compact and powerful MicroSpooler for your computer today. Works with all model computers.



Photo: MicroSpooler 64 K P-P

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The Kaypro can dump a file faster than a printer can accept it. This device will catch the file, quiet the disk drives, and let you compute again.

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Description	List	Price
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64 K P-S	\$343.00	\$299.95
64 K S-S	\$349.00	\$299.95
64 K S-P	\$339.00	\$294.95
Two Cables	\$ 56.00	\$ 29.00

64 K Stores and spools files as large as 64 K.
P-P Parallel Kaypro port to parallel printer port.
P-S Parallel Kaypro port to serial printer port.
S-S Serial Kaypro port to serial printer port.
S-P Serial Kaypro port to parallel printer port.
Cables Set includes one special male to female connector and one male-male connector.
*Please tell us model and type of printer you're connecting to your computer.

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Punctuation and Style makes writing and rewriting much easier. The list price of **Punctuation and Style** is \$125. Central's price is \$95. Experience the power of this valuable "Punctuation Checking and Writing Improvement Software" yourself. Order today to get this program fast.

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Stardrive by Robonics is a new software program that makes Wordstar into a fully integrated word processor, dictionary, thesaurus, calculator, and graphics kit. **Stardrive** is a four-part Wordstar power booster. It includes Graphics Express that lets you easily put bars, lines, pies, or other graphics in your text. Math Express allows you do calculations in Wordstar. Spelling Express is a 100,000 word dictionary that checks spelling faster than other programs. Word Express is a 70,000 word electronic thesaurus that lets you put your cursor on a word in your text, press the escape key, and a list of synonyms appears. Then you press a key again to select and place the best word in your Wordstar text. Some of these powerful functions can be used without ever leaving Wordstar.

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Central Computer Products

Book Review OH! PASCAL!

Review by John C. Connell, Jr.

OH! PASCAL! is a self-teaching book "aimed at students who, although otherwise sober and upright, seem to lack an intuitive feel for computer science."

Each of the book's 15 chapters is divided into sections dealing with a particular facet of Pascal or a programming technique. In addition to the text and hundreds of program examples, the writers have added a summary, self-test exercises and a section on anti-bugging and de-bugging to each chapter. Indexes include the answers to the self-test exercises, a glossary, a subject index and some information on the more obscure quirks of Pascal.

Visually, OH! PASCAL! must be the most outstanding computer book ever printed. The imaginative use of bold, italics, and "funny" type styles to differentiate among computer input, computer output and text completely eliminates confusion. Gray shading and appropriate use of white spaces help focus the reader's attention on the portion of a program under discussion. Each chapter is preceded by a photograph or drawing that illustrates a key point in the chapter.

OH! PASCAL! also demystifies computer jargon for the novice. Can you imagine how comfortable you will feel when you begin to truly understand terms like "recursive," "top-down design," "stepwise refinement," "global variables," and "boundary condition"?

OH! PASCAL! is an outstanding value at only \$17.95. It is written for beginners, but even old Pascal hands will find a trick or routine or algorithm that they can use. It is absolutely required reading for anyone who hopes to make the jump from BASIC to "Turbo Pascal" without benefit of formal classroom instruction.

OH! PASCAL! by Doug Cooper and Michael Clancy from W.W. Norton & Company, 1982 Softcover, 476 pages, \$17.95.

John C. Connell, Jr.
1111 Kings Rd.
Neptune Beach, FL 32233

Best of KUGBB

The article in KUGRAM Vol. 2 no. 6 neglected to mention that you can print a file with Wordstar using all default values by simply pressing "Esc" after the first prompt following "P," thereby bypassing all of the print option questions.

—Stan Modjesky

There was a mistake on page 14 of the current KUGRAM, and the phone number of the Lost Dutchman's Gold Mine was given as 602-848-6700 instead of 6708.

—Mimi Keck

To boldface in BASIC or many other languages, you just print the line, followed by a carriage return (character 13 decimal) followed by the line again. In BASIC, be sure to use semicolons e.g.

```
LPRINT A$;CHR$(13);A$
```

The carriage return character (cr) causes the printhead to move back to the beginning of the line without moving the paper up at all. So the end effect is that you print the line a second time right on top of the first one, hence boldface. If you just want to boldface a single character, you can do so with character 8, back spaces. For example,

```
LPRINT "X";CHR$(8);"X"
```

would print an X, back up one space, and print a second X right where the first one is.

—Aaron Contorer

A program called LSWEET.COM opens up a library and unsqueezes and extracts everything all in one fell swoop. Let's say you have a file called XCAT.LBR that you have downloaded from an RCPM. You put that file in A: drive and a disk with plenty of room and LSWEET in B drive and then log onto the B: drive. You then enter:

```
B> A:LSWEET A:XCAT.LBR <cr>
```

When the program is called up you will be given a list of options. You will select E and then later a <cr> for default drive. You go all the way through the library extracting what you want.

—Frank Fallon

Kaypro has just introduced the Kaypro 16, Kaypro's new IBM compatible computer. This is the one you may have been waiting for ... but there is good news and bad news.

The good news is that it seems to be 100% IBM compatible. It uses the Phoenix system and MicroSoft's MS-DOS. It looks the same as any other Kaypro except for the keyboard, which has the IBM layout with function keys.

The bad news is that it is not compatible with any other Kaypro computer. It is not a co-power computer. That is, it is only 16 bit and will not run any 8 bit programs.

You can still transfer ASCII files through modem or by use of a multi-format disk (providing it has MS-DOS on it). You may be able to transfer programs, but they will not run unless they are 16 bit MS-DOS.

Kaypro's preliminary specifications are as follows:

CPU... 8088 with 4.77 MHz clock.
RAM... 256K standard expandable to 512K.
DISK STORAGE... 360K DSDD floppy with 10 megabyte hard disk.
EXPANSION... 4 slots: 3 for the system and 1 open for options.
COLOR GRAPHICS... IBM compatible.
VIDEO... 80 X 25 or 40 X 25. Can use external monitor.
I/O... Serial and parallel IBM ports.
WEIGHT... 35 lbs.

Standard software includes:

MITE... A telecommunications program using the serial port and modem.
WORDSTAR... The word processing program.
MAILMERGE... A file merging program that works with WordStar.
INFOSTAR+... A data base management system which includes Reportstar, Datastar and Starburst (system tool).
CALCSTAR... A spreadsheet program.
GW-BASIC... An IBM Basic language.

The suggested retail price for the Kaypro 16 is \$3,295.00.

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Software

"Yummy" Review

by Katherine Loukides

The Software Toolworks has issued two specialized computer "cookbooks," The Best of Wok Talk and Chocolate Bytes. Like the first of the series, Computer Chef, each provides over 100 recipes that can be called up on the screen, revised for different amounts or servings, and printed out in hard copy. Also, you may add your own favorite recipes or delete any you choose.

Each package contains an easy-to-follow manual with an appendix listing the available recipes. The Best of Wok Talk also includes a booklet, a condensed version of Chinese Cooking: The Classical Techniques Made Easy, which explains, among many other things, what a "sandy pot" is; how deep "deep" is (as in deep frying); and what equipment one needs.

The carefully-written recipes are fun to read and easy to follow. Once you type CHEF at the A> prompt, the menus guide you effortlessly through the procedure of listing recipes, choosing one, calling it up on the screen, revising it, and printing it.

Be prepared to spend some time waiting at the console, however. It takes more than a couple of minutes for the machine to scan over 100 recipes looking for the title word or ingredient or keyword you type in. Even if you type in the full name of the recipe, such as "Shrimp Sauce Mixed Vegetables & Shredded Chicken," the drive will whirr interminably before the title appears. It's too bad you cannot call up the recipe you want directly from the first menu.

When the program is new, it's fun to look through the lists and experiment by changing the servings from 4 to 50, and increasing the ingredients (20 shrimp instead of 16, for example), but when you get to know which recipes are included—or when you add your own—waiting for the program to continue is a nuisance.

Searching for a recipe can be a little tricky. If you ask for recipes containing beef, for example, you will get only one. If you ask for recipes with "beef" in the title, you will get a list of six. Five of these six use a form of steak, and the word "beef" does not appear in the list of ingredients. Soups are best called up through the keyword "soup." It may not appear in the title (Braised Lion's Head in a Sandy Pot; Sweet Almond Pudding with Red Dates) or in the list of ingredients. Fortunately, these "keywords" are listed in the manual. Also—a nice feature—you can call up any of 16 menus in case you can't decide which dishes complement each other.

One look at the categories of recipes in Chocolate Bytes—cakes; cheesecakes; pies; cookies and brownies (five brownie recipes and six bar recipes); confections; frostings, glazes and sauces; fancy desserts; entrees (!); and beverages—and you can see that merely inserting the disk into drive A could be dangerous to your waistline. But what a chocoholic's delight! You'll be sorely tempted to tear the recipe out of the printer and indulge your addiction.

Entrees, by the way, are Chocolate Chip Pancakes, E.R.A. Chili, Stand-up Turkey Mole, and Sweet and Sour Rabbit Stew. I skipped that part. Cappuccino Fudge, Double Deadly Chocolate Pie, and Devilicious Secret Brownies are more to my taste.

As with The Best of Wok Talk, you can delete any recipe or add your own. You can prune the list of recipes to rule out those with a particular ingredient, such as salt. Also, if you have a favorite dish that you want to revise for a particular number of people, these programs offer an easy way to do so.

In addition, you have the option of writing the recipe titles to a separate file for printing or for scanning on the screen. Though knowing the full title of a recipe does not decrease call-up time, such a file has its uses.

You will have fun with these programs from The Software Toolworks, 15233 Ventura Blvd., Suite 1118, Sherman Oaks, CA 91403, 818/986-4885.

With Magazines Folding Left and Right, Which Independent* One Still Covers CP/M Computers and Software?

User's Guide® contains tutorials to help you use CP/M® application software on your personal or multi-user computer. For the low cost of a magazine subscription (\$18), you get six issues stocked with tutorials and software evaluations. No fluff, just direct, readable "how to use" information for users of computers that run CP/M software.

If you have a CP/M computer, you need to know where to find good software and accessories. **User's Guide** has in-depth evaluations of commercial **and free public domain** software, so that you can choose the best buy.

If you are learning to use a CP/M computer, try the **User's Guide** tutorials rather than spending much more on training packages. **User's Guide** teaches you how to use the most popular programs on the market, like WordStar®, SuperCalc®, dBASE II® and Modem7. Some of these programs also run on MS-DOS® computers.

Editors Tony Bove and Cheryl Rhodes are the acclaimed writers of several computer books on CP/M and WordStar. Contributing editors and columnists include other notable writers who use computers extensively, such as Arthur Naiman, Steve Rosenthal, Jonathan Sachs and Kelly Smith. The writing is crisp, intelligent and informative, without an overuse of jargon.

User's Guide also keeps up with the changing personal computer market, with informative articles about communicating with other systems (like MS-DOS) and transferring programs and data.

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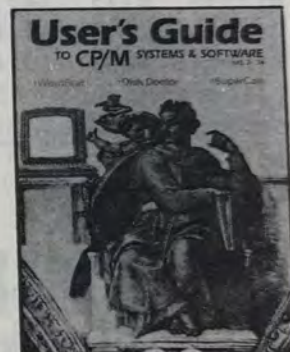
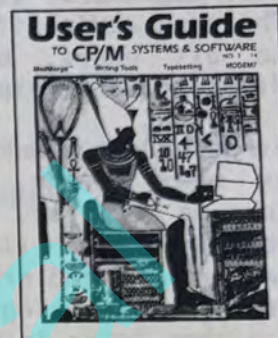
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KUG 11/12

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WORDSTAR by Chiang

MENUS AND HELP SCREENS

Wordstar is often thought of as a difficult program to learn, a reputation which it really doesn't deserve. Wordstar provides plenty of help and instruction for beginners at every step of the way. The program itself may not be appealing to all users, but it shouldn't be too difficult to decipher.

First of all, look at the Opening Menu, or no-file menu, which is presented upon loading Wordstar. The options are very understandable (though the letters used may be odd) and are shown in a logical fashion. Choosing certain options gives you some basic information; for instance, D (to begin editing) has a few lines on filenames in CP/M, and L (to log in a new drive) will tell you what the logged-in drive is. Also for your information is an alphabetized disk directory, which (depending on the version number of the program) shows only files that can be edited; Wordstar overlays and .COM files are not given.

If you pause while typing in the filename for any option (and help isn't deactivated), a number of commands appear. Notice Ctrl-R; it says Restore entry. Whatever filename was last entered, at any time during the session, Ctrl-R will restore it. Thus, you can edit a file, and then you can print it with just a keystroke instead of entering the name a second time (handy if you use all eleven characters for a descriptive filename). Ctrl-D, Restore character, can also be useful. Try them. Ctrl-S functions as a Delete key, Ctrl-Y Deletes the entry, and Ctrl-U does its usual function: it interrupts and cancels the current operation. Ctrl-F is in case you turned off the File Directory and can't remember the name of the file you want; it just restores the directory.

Look at the Main Menu that confronts you when you begin editing. It is very handy for beginners, but you shouldn't need it very long. Cursor movement is easily mastered, as is deleting. Once you no longer need the Main Menu, you can change the help level. Ctrl-J, then H, will allow you to do so (as will option H at the Opening Menu).

Going to Help Level 2 only shows secondary menus, when you pause after a prefix command. You may want to use Level 2 quite a bit; it gives you a full screen to work with, but still provides help for you whenever you need it.

As for Help Levels 1 and 0, they merely keep the available help down to almost non-existence. When you become skilled at Wordstar commands, Level 2 will be largely the same. You can change to Levels 1 or 0 if you like, though. At the Opening Menu, Level 0 is somewhat quicker because the information on filenames is not given when you begin editing.

On the right side of the menu are the five prefix commands. Press any of them, wait a few seconds, and you'll have a menu with brief descriptions of the command options. Ctrl-Q is for Quick movement, and search and replace. Ctrl-K is for block and file commands. Ctrl-O is for On-screen formatting functions, and Ctrl-P is for Print commands.

The Ctrl-J prefix is the one that will provide you with actual, pure help. Any of the others will begin some command or function; the menu lets you know just what you're about to do. Ctrl-J begins a fine series of help screens. These give good explanations of a variety of topics. There is information on screen features, like the status line, ruler line, or flags on the screen's right side. You also have general information on commands, and on paragraph reform, moving text, and a nice long summary of dot commands. The descriptions are not meant to replace the manual in any way, but they can be helpful reminders.

There are similarities to the Help File in Perfect Writer. Notice, though, that movement through PW's Help File is done with actual commands; you move by screenfuls the same way you would while viewing any other textfile. (You might even write your own Help File to Perfect Writer if you didn't like theirs.) Wordstar is simpler in that only a keystroke is needed, but it doesn't give one any real practice in using the program. (Neither program has anything that resembles the Teach program for Select; that is a true step-by-step tutorial.)

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Library

- #101 [Games] PAC-MAN & CHESS
- #102 [Games] ELIZA & GOLF & Misc.
- #103 [Modem] MODEM 795 for Tel. Comm.
- #104 [Helps] HELP CP/M, MBASIC + Others
- #105 [Utilities 1]
- #106 [Games] ADVENTURE
- #107 [Statistical] STATISTICS
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- #109 [Utilities 2]
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- #111 [Graphics] KAYPRO 10 GRAPHICS
- #112 [Helps 2] HELP PERFECT, SBASIC, Etc.
- #113 [Business] SBASIC & MBASIC GAMES
- #114 [Directory] "LITTLE BLACK BOOK"
- #115 [Games] STAR TREK +15 MBASIC GAMES
- #116 MULTI-FORMAT DISK FOR KAYPRO II
- #117 MULTI-FORMAT DISK FOR KAYPRO IV
- #118 MULTI-FORMAT DISK FOR KAYPRO 10
[Multi-Format disks run on CP/M only.]
- #119 [Games] CONCENTRATION + 18 MBASIC
- #120 HP CALCULATOR + MISC.
- #121 [Language] STANDARD FORTH
- #122 [Language] SOURCE FOR FORTH
- #123 [Utilities] WP & PC
- #124 [Utilities 3]
- #125 [Time Management] HANDY
- #126 [Science] ASTRONOMY
- #127 [Utilities] PC & PW
- #128 [Language] KAREL the ROBOT
- #129 [Games] MONOPOLY + MBASIC GAMES
- #130 [Catalog] MASTER CATALOG
- * #131 [Business] LOGO GENERATOR/EPSON
- * #132 [Utilities] SUPER UTILITIES #4
- * #133 [Statistics #2]
- * #133 [Statistics #3]
- * #134 [Statistics #4]
- * #135 [Statistics #5]
- * #136 [Statistics #6]

* New contributions

If you would like to receive any of the above, send \$10.00 [for each] to KUG LIBRARY at Box 100, Malverne, N.Y. 11565. DO NOT SEND US ANY DISKS.

Be sure to mention the disk name, number, your mailing address and I.D. number.

REMEMBER, we will send you a disk from our library for any contribution ON DISK to our LIBRARY or to the KUGRAM.

CP/M Stuff

In this issue we will discuss a CP/M favorite of yours and mine BDOS ERROR MESSAGES.

Who could forget that "Old Time Favorite," BDOS ERROR ON B: BAD SECTOR?

Now don't get the wrong idea about CP/M. These messages are there to help us. So let's find out HOW.

Although there are many messages relating to CP/M, many of which appear while working with your word processor or programming, there are only THREE that relate to the Basic Disc Operating System (BDOS). They are BAD SECTOR, SELECT and READ ONLY.

The most important one to be concerned about is BDOS ERROR ON B: BAD SECTOR. The drive can be any of the drives you are using. When this message appears, it does not necessarily mean that the disk or the computer is at fault. Some of the stuff to look for is: Is the disk write protected (write protect notch covered)? Is your disk 90 to 100% full? These problems could relate to any drive. If not, then chances are the disk has been affected. Did you spill the coffee again?

It is important to note that when this error message appears, DO NOT HIT RETURN. Using the return may affect the disk's integrity. ALWAYS use Ctrl-C to re-boot the system.

BDOS ERROR ON F: SELECT occurs when you try to access a drive that does not exist. You can re-boot the system by hitting any key.

BDOS ERROR ON B: READ ONLY occurs when you try to write to a disk or a file that has been set to Read Only (R/O). When this happens try using STAT B:*. *. The right hand column will tell you if the file is R/O. Here it is important to use the warm boot Ctrl-C if you plan to change disks. If you don't, the computer will still remember that the drive was Read Only and you will get the BDOS error message again.

In Response ...



...Config (a utility program on your CP/M disk) permits you to alter the numeric keypad or the cursor key codes for a particular disk. On the newer models the cursor keys are configured for Wordstar. If you want to re-configure them for older programs, they are as follows:

[^ = <control>]

UP = ^K - DN = ^J - LT = ^H - RT = ^L

The changes are permanent (unless you decide to re-Config).

...To ensure that your printing starts at the top of the page, make sure you reset the top of form when you turn the printer on. It's also a good idea to put a forced page break after the last line of the last page of your document. On some printers, this may give you the added bonus of an extra blank page.

...Help for BDOS Erros on A: R/O. What did you do? Probably switched disks without pressing CTRL-C.

...For educational software, try — Krell Software Corporation, 1320 Stony Brook Road, Stony Brook, NY 11790. Tel. 516/751-5139. They have an SAT preparation course for the Kaypro II, 4, and 10.

...What software is out there for the Kaypro? Check the Kaypro Software Directory and its Addendum. More than 700 pages list software that runs on various Kaypro models. Should be available at your local Kaypro dealer.

...If you want your submit program to work on a disk other than the CP/M disk, be sure to transfer the SUBMIT.COM file and the FILENAME.SUB file to that sysgened disk. It will then work on either drive. Also: When writing the .SUB file that SUBMIT will read, make sure you do so in non-document mode. The file must be unformatted for SUBMIT to read it.

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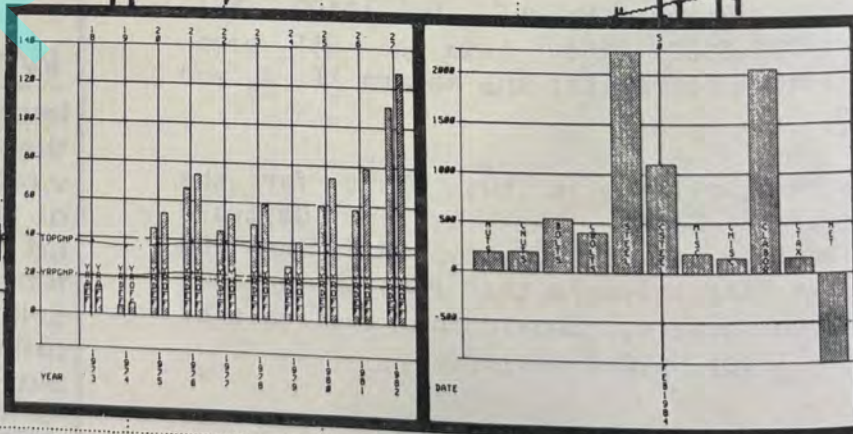
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DISK 125 HANDY TIME MANAGEMENT

The name says it all for this disk. It really is handy, and a job well done by the programmer. (Apparently it was originally written in the pseudo-compiler CBasic, and then compiled with CB-80.) The program presents you with a menu of choices, which include an appointment schedule, a calendar, a things-to-do list, a planning helper, a notebook, a phone directory, and even a simple decision-making aid. Certain things can be sent to the printer. The entire system is very easy to use; the menu-driven format guides you through all the possibilities. HANDYSYS.COM controls everything, loading up the overlay (.OVL) files for each option as needed. It creates data files on disk, and updates them as needed. HANDY could be very useful for many people; programs like this are often sold commercially at heavy prices.

There are a couple things to note. The .LBR file cannot be viewed without the LU [Library Utility] program. On the other hand, there is no need to open up the .LBR file unless you want to play with the source files. In addition, some of the screen formatting was designed for an Osborne, so it's not perfect on the Kaypro.

DISK 126 ASTRONOMY

ALTAZ.BAS; ALTAZ.DOC: An MBasic version of the STARFIX.COM program mentioned below. D.COM: Another version of the extended directory program—with minor differences. DIR+.COM: Not a directory program. A disk-cleanup utility like NSWEEP, but smaller with a good selection of options. HYPERBOL.BAS; PARABOLA.BAS; PARABOLA.DOC; SPHERIC.BAS: Model illuminated hyperbolic, parabolic and spherical reflectors. SCROLL.COM: A program for viewing textfiles, using single-letter commands reminiscent of PW. STARFIX.BAS; STARFIX.COM; STARFIX.DOC: Provides the location at which a particular celestial body can be seen—after technical input.

CRCKLIST.CRC: A file with the CRC, or Cyclic Redundancy Checker, value for the files on this disk. Useful with CRC.COM for verifying accurate copies. D.COM: The extended directory program, giving file sizes and alphabetical listing. DISK.COM: The DISK7 program, same as DIR+. A disk-cleanup utility similar to NSWEEP. NS.COM: Same as NSWEEP and NSWP199H. A very nice disk utility for general file handling. PCCOPY.BAS; PCCOPY.COM: Aid in the transfer of data to and from Perfect Calc spreadsheets. Takes a section of your spreadsheet and produces a datafile containing either the numbers only, for transfer to another spreadsheet, or the formulas only, for earlier versions of PC. PCGOTO.BAS; PCGOTO.COM; PCGOTO.DOC: Writes the numbers from a section of your spreadsheet into a document file for later use. PCINPUT.BAS; PCINPUT.COM; PCINPUT.DOC: Completes the task of reading in data into your PC spreadsheet. Will read a comma-delimited database file or a document file.

PWCONFIG3.BAS; PWCONFIG3.COM; PWCONFIG3.DOC: An improved version of a "home-grown" configuration program for PW described in the KUGRAM, Vol. 1, no. 5, p. 16. Can change the size of the Swap File, and can also alter tabs; cursor display; fill and indent columns; CPU rate; and delay count. SWAPCHG.BAS; SWAPCHG.COM; SWAPCHG.DOC: Changes the size of the PW Swap File. Will create a new Swap File of a size you specify, as long as the size is a multiple of 8k. SWPREAD.BAS; SWPREAD.COM; SWPREAD.DOC: Rescues a file lost during an edit session due to some disaster, by reading the pieces in the Swap File. Will scan through the file and put all ASCII text into a file called SWAP.MSS. V100FILE.DOC; V100FILE.DTA; V100FILE.PC; V100PART.DOC; V112FILE.PC: Example files for the PCCOPY, PCGOTO, and PCINPUT programs. WC.COM: Counts the number of words in a text file.

* * *

If you would like a list of descriptions of the KUG Library disks, send a self addressed stamped envelope to KUG DISKS

Sysop's Corner

The most frequently asked question from new users on CompuServe is, "How do I download?"

The Data Library is ever growing with members constantly UPloading new programs and text files for others to read or use. There are nine (0 through 8) different sections, databases or "LIBRARIES" of programs and information available to you in PCS-25. In all there are almost 4.5 megabytes of Kaypro information.

The SN command at the function prompt will list the message areas available within the SIG. The DL or Data Libraries, formerly called XA sections, generally correspond to the following message areas.

- 0 General - Help files (.HLP) and a catalog of the programs available in the entire data library (KSIGXA.IDX or KSIGDL.IDX)
- 1 Utilities/Comm. - Our largest library section containing utilities and telecommunications programs.
- 2 Kugram - Here you will find KUGIN.DEX, an index of the KUGRAM for volume one and a listing of KUG disks (.CAT)
- 3 Local Users Groups - A few local KAYPRO users' groups have placed information about their organizations and their meeting places. Please add to this with information about your group and its meetings.
- 4 Hardware - This section contains information about printers, machines, hard disks and some of the message threads that have been generated on the message board.
- 5 Perfect Software - Here are programs and information which make it easier to run the Perfect Series - Perfect Writer, Perfect Calc, and Perfect Filer. If you want to increase the size of your SWAP file in Perfect Writer, try PWS.BAS

- 6 Free Software - This library contains most of the programs described in "The Free Software Handbook," by Gregg Platt and the gang at PeopleTalk Associates.
- 7 dBASE, Turbo+ - This library contains programs written in dBASE and Turbo Pascal.
- 8 * Star Software - This is our fastest growing data library. DL8 contains an ever growing wealth of programs and information about the Star Series of software from MicroPro.

You can get to the Data Library by typing either XA or DL followed by the number of the section you want to access. For example, if you wanted to read the help files you would type DL0.

By typing CAT you will receive a complete listing of the entire section, in this case DL0. Typing the command BRO for BROwse will give you a brief description of ALL the files in the 0 section of the library. The most economical way to Read files is to download or data capture. Once you know which text files you want you simply use the command that gets you back to the command line of your modem program, CTRL-E, with the Modem 795 series.

On the command line enter T
<filename.ext> <cr>

Once back to the terminal mode enter a CTRL-Y, or the command that opens your data buffer, and then enter:

R <filename.ext> <cr>

You will see the file displayed on your screen and it will be entered into a data buffer. When transmission of the file is complete enter CTRL-R, or the command which closes the data buffer, followed by a CTRL-E, the command to bring you back to the command line of your modem program. At this point your Kaypro will beep and the prompt will warn you to save data. Enter WRT and you will hear the drive whir as the file is written to disk.

Frank Fallon SYSOP 76703,604

Kaypro Upgrading

by Pat Hatcher - PeopleTalk Associates

Kaypro owners don't buy as much software as other owners, but not all needs are filled by the bundled software. We are bombarded with advertisements for available software. Which ones should we buy? There are several hundred Kaypro software programs available for purchase. (Dealers have this list, now in book form.) They range in price from a few dollars to several thousand, and cover everything from feeding dairy cattle to genealogy, from sophisticated accounting packages to adventure games. Buying a piece of software is very much like buying a pig in a poke (or a used car from a photograph) and can be a very frustrating experience.

In theory, any CP/M software in Kaypro disk format may work, but pitfalls are numerous. Since the older Kaypros don't support graphic characters, many programs may not work. A program which has been modified for the Kaypro may bypass the graphics and present a workable, but less flashy, screen.

Since the purchase of add-on software is a topic of considerable interest among members of our group, we assume that many of you are also considering such purchases. If you are thinking about buying add-on software for your Kaypro, the first thing you need to do is develop a list of your goals for the new program. Be sure you know what you want it to do—in detail, item by item. Use one of the bundled programs to set up a small sample (i.e., Perfect Calc for invoicing) to help firm up your exact needs in your own mind. Make a list of the information you have to put in. Set up sample reports on your word processor.

Computer people refer to this process as developing a "requirements list" and it is one of the most important steps you can take in acquiring a new software package. Remember, no package will be able to satisfy 100% of your needs (about 80 - 90% is the best you can expect); so prioritize that list and decide which features are must-have's and which ones are nice-to-have's.

Next, look through back issues of computer magazines. A single issue frequently surveys a lot of software in a single area such as inventory, mailing lists or forecasting. Every issue will contain reviews of new software - check the table of contents. Use their evaluations as guidance, not gospel.

Most computer stores carry only a few software packages, so do your preliminary shopping by telephone to locate the packages which look most promising.

"Test drive" as many programs as you can. Keep your requirements list and sample reports nearby! Many software suppliers sell "demos," subsets of the full product which have certain features missing, do not allow disk saves, or allow only a small number of entries (to protect the authors from pirating). Frequently these demos are marketed for a price, which will be credited toward your purchase if you buy the full package, or dealers may have copies of these for in-store testing. Sometimes you can buy just the manual under the same terms.

Speaking of manuals, take a good look at the software's manual. Do you understand it? Does the manual or disk contain a tutorial to get you started? Can you buy third-party books about the software?

Find someone who has used the software on a Kaypro (preferably your model with your printer). Did it work immediately, or were adjustments required? Remember, it is never legal to copy software for your own use, but it is ok to use a friend's copy for a test drive. The new software rental industry may help.

If you know several others who have a particular piece of software and like it, that can be a valid reason for buying it.

The most important rule is the same one that applied to purchasing a computer or printer - KNOW WHAT YOU WANT THE PRODUCT TO DO; KNOW THAT YOU CAN MAKE THE PRODUCT DO IT. Testing it with your own application is the only way to know for sure.

* * *

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If you've purchased a Kaypro computer, the cost of a six-issue *PROFILES* subscription was included in the purchase price. If you sent in your warranty card, you should be on the mailing list. If you haven't received an issue in the mail, please fill out the form below and send it in. We must have accurate serial numbers and zip codes for subscriptions to go through, so be thorough. Please allow 10-12 weeks for delivery. Note: the free subscription begins with the first issue you receive in the mail and has no relationship to the complimentary issue packed in your machine.

If you don't have the luck to own a Kaypro, you can still subscribe (use the lower form). Or you can pick up a copy at any authorized Kaypro dealer. Call 800-447-4700 for the dealer nearest you.

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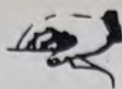
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Al Gerson, Editor and Publisher

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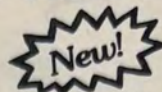
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