

ANOTHER DAY IN THE LIFE OF KAYPRO

The KAYPRO II is dead, long live KAYPRO.

The KAYPRO II and the KAYPRO 4 have been discontinued. It's always sad when a king leaves this mortal world, but the crown is always passed on to the next heir in the royal bloodline.

The successor seems to be the KAYPRO 16, but as a solid basic computer, the II [and the 4 for that matter] was unmatched. It's true that KAYPRO will continue to produce the 2X, the NEW 2, the 10 and the new edition of the ROBIE [see KAYPRO NEWS], but what happens to the KUGGERS who are proud owners of the II's and 4's?

The answer is "nothing." There have already been 4 or 5 versions of the KAYPRO II. The Bios has been changed that often and nothing much happened. The bundled software was changed 3 or 4 times and again nothing happened [except for some confusion and unhappy users]. Support for these computers will still be there and you still have the opportunity to up-grade to a 2X.

Isn't it interesting that since the failure of the Coleco ADAM, a new phrase, "Orphaned Computers," has evolved. The owner of the "defunct" computer panics and tries to go to another computer of the same type only to find out later that that one will also be scrapped.

It has been our observation that there is a natural evolution in computers and computer users. Computer users will stay with the one they have until they outgrow it—that is, when there is a need for more storage or speed or whatever they feel is important to make their work more efficient.

Usually a computer will last for as long as this need is satisfied and with very little repair. Therefore, in most cases it would not be necessary for any user to be concerned about what he will do now that his machine has been discontinued. Just continue to do your thing until the time comes to make the evolutionary change.

Fortunately, all KAYPRO II software will run on the 2X and the 10. It will not run on the ROBIE and the KAYPRO 16. The reason we do not concern ourselves about the KAYPRO 4 is because it is the same as the new 2X [yes, with clock and modem].

Speaking of software, we have been told that WordStar will not be available from KAYPRO. Discounted or otherwise! The "bargain" from Perfect seems to have some problems that come with it. AND ... still no word from Ashton Tate regarding dBASEII. The more things change, the more they stay the same.

What about KUG? Our New Year's resolutions stated that we will continue to support all KAYPRO models and all software that came with them. We have received letters telling us that we were becoming too "Perfect," but as we promised we will continue to support the discontinued as well as the now. Remember, the now of today will be the discontinued of tomorrow, so let's keep those tips and articles on Perfect as well as other programs rolling in. There are many, many "old timers" out there.

Technology sure is fast moving. Things go from better to better, but we keep KUGGIN' along. I can't think of anything better than that.....



Box 100



Dear KUG,

Mike Drooker's suggestion (KUGRAM, Vol. 3, no. 1, p. 6) of creating a new port—Serial Out—in order to use a second printer with Perfect Writer is extremely neat. However, for the Kaypro 10, it must be modified as follows.

In answer to the question "What is the port address of this peripheral's data port (in hex):," the correct response is 0C, rather than 4.

In answer to the question "What is the port address of this peripheral's status port (in hex):," the correct response is 0E, rather than 6.

Paul Becher
520 Windley Road
Wilmington, DE 19803

* * *

Dear KUG,

I have a real time saver for members who like to play the 580 point version of ADVENTURE, but don't like to PIP files from disk to disk because the SAV'd game is erased. Use the DEBUGGER and type:

DDT ADV.COM (CR)

You should see: NEXT PC
 9100 0100

TYPE: S73E8 13
TYPE: 01 (CR)
TYPE: . (Period) (CR)
TYPE: Ctrl-C
TYPE: SAVE 144 ADV.COM

Thereafter, whenever you restore a game, it will not be deleted from the disk. You can SAVE and RESTORE to your heart's content.

Jack D. Johnson
P.O. Box 3319
Forest City, FL 32714

Dear "Kid" Kaypro Users,

Hello! This is your pen pal Matt here. I am writing this letter because I think what I have to say may be of interest to you. Since I got such a great response from my little letter in PRO/FILES, I am proposing that we kids start a KUG. That's right. We could call it NKKUG (National Kids Kaypro Users Group). This can be done only with your help. So if you're interested, please contact me immediately and also send your phone number. If enough of you respond, we could really get something going.

Matt Weisberg
29140 Apple Blossom Lane
Farmington Hills, MI 48018

* * *

Dear KUG,

If you want to more clearly distinguish between Perfect Filer database discs, try setting up a dummy filename like: [hyphen] "-ORGZNL.DB". The hyphen makes the name you use "float" to the top of the directory listing, and the file listing itself reminds you where to go for label-making instructions. (For example: I used "-INDIV.DB" as the name for my "Christmas Card Names" disc. Without the different identifying dummy filenames on each disc, each of these directory listings would read identically.

Elwin H. Covey
770 Loma Valley Rd.
San Diego, CA 92106

* * *

Dear KUG,

In February 1984, I purchased the Plu*Perfect package from Plu*Perfect Systems. While I would never trade my Plu*Perfect, after some very bad experiences, I have determined that one rule should be added when using it.

When your machine is swapping, NEVER, NEVER use the pre-configured key pad or you stand to lose everything that you have in your current buffer. File under "Lessons Learned."

The Rev. John L. Mitman
520 N. Harrison Rd.
East Lansing, MI 48823

Dear KUG,

The Kaypro is a great machine but it cannot display foreign language characters. For anyone who writes in German, however, there is a simple way around the problem. On daisy printwheels, the seven special German characters: the umlauted A, a, O, o, U, u and esszett could replace little-used characters such as the back and forward slash, square brackets, etc. You could type such a bracket or slash for the special German character, but the resulting text looks most unnatural and makes re-reading and editing quite difficult. It so happens, however, that German has an alternative way of typing the umlaut vowels, and that is with a following "e" instead of the umlaut over the letters. The double "s" rendered as a Greek beta can be typed as "sz," and this gives an acceptable appearance to a German text and makes editing as straightforward as if the umlauts themselves had been typed.

All one needs, therefore, is a program that will take a text file and convert the ae, oe, ue, sz, etc. when they occur in German words, into the characters that correspond to the special German characters on the daisy wheel printer. The converted file can then be printed out correctly. The conversion program has to be fairly sophisticated to distinguish German words such as "schoen" from English words like "shoe" in a text that has both German and English. It also has to distinguish between "auszulassen" (no conversion of the "sz") and "grosze" (conversion required), and to leave such names as "Goethe" unchanged.

It will translate back, as well as in the direction described, and can be customized to suit any daisy wheel. The prototype version was written to run on the Kaypro 4'84 and utilize its graphics capabilities, but adaptation for other models would be straightforward.

Anyone interested in it should write to me. I can supply the .COM file or the S-BASIC source code or both.

Timothy F. Pope
43 Princeton Crescent
Lethbridge, Alberta, Canada T1K 455

Dear KUG,

Like many readers, I've really enjoyed reading (and USING) other users' solutions to problems they've met with Kaypro bundled software. This help is especially valuable now that Kaypro distributes different software and Perfect Software has changed the programs. I've developed a few solutions to share I don't believe have yet been published anywhere.

First, there IS a way to edit and re-format those "on-line readable .FIN files" with Perfect Formatter. If you must merge two or more files, such as Tables of Contents, you may, without having to re-type everything.

Second, there IS a way to call any subset of records to your screen in Perfect Filer. You're only supposed to be able to retrieve records one at a time with the 4-character member ID. Actually, you may modify any Perfect Filer data base (without writing new code) to display whatever subsets you choose.

Third, there's a way to set up a limited free form data base with Perfect Writer which prints lists and labels and keeps other data about your entries in a non-printing status. It doesn't manipulate data like file management software, but it works like a charm for its intended purpose and sets up far faster.

If you would like to receive all three techniques, without obligation, along with descriptions of some other things I've done at the local Kaypro User Group (T-KUG) to help members learn both Perfect Software and The Word Plus faster and to use them more effectively, just send me a STAMPED, SELF-ADDRESSED ENVELOPE. I'll mail you the write-up.

Please don't hesitate if you're interested in any technique listed, or in "old" Perfect Software in general. If you buy the stamp, I'll pay a local printer to run off however many copies become necessary.

Richard L. George
PO Box 2501
Virginia Beach, VA 23450

Dear KUG,

As President of Rocky Mountain Software Systems, I would like to explain what is rapidly becoming a very confusing situation regarding one of our products, NewWord (tm). An unfortunate contract dispute between the authors of NewWord, Newstar Software, and ourselves has resulted in two different versions of NewWord being available simultaneously.

In September 1983, we signed an exclusive Retail Marketing Agreement with Newstar for NewWord and began very active promotion. Disappointed with sales in June of 1984, Newstar exercised an option in the contract that allowed them to market NewWord also. In August 1984 Newstar stopped providing technical support to Rocky Mountain and refused to release any future versions of NewWord to us. Whether Newstar can legally withhold the newer versions is under dispute and we are taking actions to gain release of the new version.

Faced with what appeared to us to be an attempt by Newstar to terminate our Retail Marketing Agreement and a potentially long battle to gain access to a new version that was to be introduced in December, we decided in September to sell our existing version of NewWord (version 1.31) via direct mail at the reduced price of \$100. In December, shortly after our mailing was sent, we found that Newstar had reduced their price of NewWord to \$100 for only three computer systems: Kaypro, Osborne and Morrow. All other versions are still \$249. To make a confusing matter even worse, they advertised the new version in the February issue of Profiles.

What are the differences between our version 1.31 and Newstar's version 2.12? To the best of our knowledge, the only differences are the addition of column mode and an unspecified number of new printer drivers. Column mode is a Wordstar feature originally left out of NewWord that allows you to manipulate columns of text using block commands.

[continued]

What does the future hold? While we are working to gain access to the newest version for our customers, we feel we have no alternative but to price our existing version relative to the price/features of the newer version. Therefore effective March 1, 1985 the retail price of NewWord version 1.31 will be \$69.95 for all computer systems, CP/M or DOS. As an informed consumer you will have to evaluate the features and price of both versions before buying. Obviously we think our version offers superior value.

We are also undertaking what I believe is a first in the computer industry. We are "price protecting" our recent end-user customers with credits applicable towards any future purchase from Rocky Mountain Software Systems. We believe our customers have been, and will continue to be, one of our company's strongest assets. We are dedicated to providing the highest possible level of support for all our products. As an example of that support level, you can now call a Remote Bulletin Board System at (415) 680-8993 24 hours a day 7 days a week and leave messages for our support staff.

As a company, Rocky Mountain Software Systems is committed to providing you with high quality, low cost business software that is backed by some of the most comprehensive support available. We will continue to work with the Kaypro Users Group to provide its members with the most cost effective business software possible. We encourage your feedback. If you have any views on this subject or any other products you think we should offer, don't hesitate to write directly to me.

I would like to thank all of our customers for their continued support. We look forward to a long and mutually rewarding relationship.

Gregg Marshall, President
Rocky Mountain Software Systems
P. O. Box 3282
Walnut Creek, CA 94598

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System Requirements: CP/M® with 64K RAM or PC-DOS (MS-DOS) with 128K • Microsoft BASIC • Two disk drives or hard disk • 132 column wide carriage printer, or an 8 1/2" x 11" printer with compressed print mode (an Epson MX-80 or similar printer).

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Dear KUG,

This is a note to all KUGGERS who find the inverse video of WordStar 3.3 on their new Kaypros offensive and irritating. You can patch WordStar using WINSTALL.COM to use the half intensity option of your machine by:

- o Calling up WINSTALL.COM
- o At the first menu type '+'
- o You will be taken to the Custom Modification Routine
- o Type <CR>
- o You will be asked for a starting address
- o Type: 267h
- o The display should show something like:

267h and the next 15 characters
6h 1bh 42h 30h 1bh 42h 31h 6h 1bh
42h 30h 1bh 43h 31h 1h 1Ah

- o You will be asked if this is the address required
- o You respond with a 'Y'

You will then be given the opportunity to modify each address. Make changes using the options listed in the menu. Use the following chart to make the changes necessary.

Address	Current Value	New Value
267h	06h	06h...(unchanged)
268h	1Bh	1Bh...(unchanged)
269h	42h	42h...(unchanged)
26Ah	30h	,31
26Bh	1Bh	1Bh...(unchanged)
26Ch	42h	42h...(unchanged)
26Eh	31h	31h...(unchanged)
26Fh	06h	06h...(unchanged)
270h	43h	43h...(unchanged)
271h	30h	,31
272h	1Bh	1Bh...(unchanged)

- o Type a '.' and <CR> to exit; then exit the routine and WINSTALL.COM.

I don't think that these changes will affect anything except the menu displays and the marked blocks.

Bryce Fifield
Box 451
Tsaile, AZ 86556

Dear KUG,

As a "non-hacker," I purchased my Kaypro because of the software bundled and the vast library of public domain CP/M software available. But I have had a few problems with hard-copy documentation. Here is a short S-Basic routine which allows the user to use smaller print with a dot-matrix printer, and a variable left margin for stapling or insertion into a binder for reference. It is also very useful for printing MBASIC source listings for reference or corrections.

I call it PAPERSAV. My printer is an Epson RX-80, but the control codes may be changed for any dot-matrix printer.

```
var N, list=integer
list=1
print "This routine sets the printer to
      ELITE type size"
print " and eight lines per inch"
print "Remember to cycle the power to the
      printer to"
print " return to normal print size"
input "Enter the number of lines for
      perforation skip-over";N
print #list; CHR$(27);"M";
rem Sets character size to elite (12 CPI)
print #list; CHR$(27);"O";
rem Sets 1/8" line spacing
print #list; CHR$(27);"C";CHR$(88);
rem Sets formlength to 88 lines
print #list; CHR$(27);"N";CHR$(N);
rem Sets perforation skip-over
input "Enter the number of print spaces
      for left margin";N
print #list CHR$(27);"1";CHR$(N);
```

I have found this routine very useful for printing some of the Kaypro tutorials from the disks and the *.DOC files from the public domain disks.

NOTE: This only works with PIP to LST:, or Ctrl-P and the TYPE command. PW and WS have internal line counters for paging. The Perfect Manual for the Kaypro 4 by PeopleTalk Associates has instructions for printer configurations to various print sizes.

Ray Jones
1753C Casman Road
Port Angeles, WA 98362

Dear KUG,

KUG library disk #125 [the Handy Time Management Program] has a bug in the "Daily To Do List" portion [No. 2 on the Main Menu]. The problem is the cursor positioning. I discovered the reason for this when I opened the H200KPSR.LBR file with LU, extracted DO-TODAY.BQS and then unsqueezed it (using USQ). Reading through the source code I found that all the cursor positioning commands are incorrect and tell the cursor to go somewhere off the screen.

There are a couple of ways to remedy the situation. The more difficult one is to change all the lines in the .BAS source code [there are fourteen incorrect lines] and then recompile it. Since I don't have a compiler, I fixed it the easy way with DDT. It's a simple matter of changing the cursor position offset from 32 (20H) to 1. Here's the procedure:

1. Put your disk with DDT.COM on it in Drive A.
 2. Put your disk with DO-TODAY.OVL on it in Drive B.
 3. At the A> prompt, type:
DDT B:DO-TODAY.OV <cr>.
 4. You will see on your screen:
DDT VERS 2.2
NEXT PC
1980 0100
-
 5. At the - prompt, type:
S455 <cr>
(0455H) is the byte to change).
 6. On screen, you will see 0455 20. Type the numeral 1 <cr>.
 7. You will then see 0456 00. Type a period (.) <cr> and the operation is done.
 8. Type Ctrl-C to exit DDT.
 9. At the A> prompt, type:
SAVE 25 B:DO-TODAY.OVL <cr>.
- When "Delete File" comes on, type "y."

[Editor's note: not all versions of CP/M will display the "Delete File" prompt.] When the SAVE procedure is done, you can enter HANDYSYS.COM and find the problem all fixed.

Joseph I. Mortensen
4214 Chelsea Court
Midland, MI 48640

Dear KUG,

When I got knocked out of WordStar by the "R/O" error, I came up with a solution slightly different from that of Ron Friedrich to recover the lost text. I assume that this method would work for Perfect Writer too.

1. Press <RETURN> so that the warm boot will recognize the disk in drive B.
2. Go to DDT and use the D[isplay] function to page through memory to find your text.
3. Make a note of the address of the first character of text you want to save. Then continue to page through memory until you reach the last character you want to save, and make a note of its address.
4. Use the DDT M[ove] facility to relocate the block of text you just identified down in memory so that the first character you want to save is located at address 100H.
5. Subtract the address of the first character you want to save from the address of the last character you want to save (not forgetting that you're using hex addresses).
6. Use that difference to calculate the number of pages to save, then press C to return to CP/M.
7. Use the CP/M SAVE program to save the block of text under any filename you wish.

You can pick up the "lost" buffer text with WordStar and edit it, merge it back in where it came from, or whatever else you want to do with it.

There's an answer; here's a question: Have any other Plus 88 users been having trouble with their MS-DOS? Mine has neither ADM-3A nor standard ANSI screen control escape sequences, so I can't use applications programs containing, presumably, Kaypro terminal configurations, and I can't write programs that make full use of the screen. If anyone has had this same problem and has managed to get some resolution for it, I'd love to hear the answer.

Richard Amyx
994 North Second St.
San Jose, CA 95112

Programming with WordStar

Dear KUG,

In follow-up to the article "Wordstar by Chiang" on page 19 of Vol. 2, no. 6, here are a couple of suggestions.

First, if you have been working with only one document and saved it, you can recall its name for printing by typing "P" and then a "CTRL-R." The program then displays, first, the name of the last document you printed, and if there is no document that was printed, it will name the document you edited. This is particularly useful if you have printed out a version or two of a document and then gone back to make some changes.

Second, to change the page pause default from "No" to "Yes" so that pressing the ESC key will start the printing, follow this routine:

Put your CP/M disk in A and your WordStar disk in B. Type DDT B:WSOVLY1.OVR <CR>. When the hyphen "-" command prompt appears, type S03FB <CR>. The screen will show "03FB 00." Type FF <CR>. The next line following 03FB will appear. Type a "." and <CR>, and the "-" prompt will reappear. Type G0 and <CR>, and the system will do a warm boot. Then type SAVE 1.32 B:WSOVLY1.OVR <CR>, and the altered overlay file will be written to your disk. Next, follow exactly the same procedure with the WS.COM file, until you are ready to save it. Then type SAVE 70 B:WS.COM <CR>. The altered WordStar command file will be written to disk.

Since I have both a letter quality printer requiring single sheets, and a dot matrix printer with continuous sheets hooked up to the same computer, I have simply reconfigured WordStar for several disks I use with the letter quality printer, so that the default is "Yes" on those, leaving it "No" on the others when I use the dot matrix printer with continuous feed paper.

KUGRAM is one of the few magazines I look forward to reading with great anticipation each time it comes. Keep up the good work.

William R. Hussey
1540 East Commercial Blvd.
Ft. Lauderdale, FL 33334

Although compiled basics have a lot of advantages, there is one drawback, and that is the necessity of going through the compiler before testing your latest creation. To save some of the time used for doing this, I use the following procedure.

The disk contains several programs: files needed to run WordStar, and CBAS2.COM and CRUN.COM to compile and run C-Basic. Such things as creating, opening and reading files, standard error messages, are all placed on the A disk by using the WordStar KW command with block markers the first time you write it in the main program. With this system I never leave WordStar once I start a programming session.

A typical programming spell goes like this: I boot up with my programming disk in A drive and the disk to contain the main program in B. At the A> prompt I type QUIET (the program to "kill" the key click), WS to get into WordStar, an L to change to B drive, HO for no help, then the N for nondocument and finally the program name such as try.bas.

First I follow my pseudo code outline to type in the proposed listing. Then to test my work all I need to do is to use KD to save it, hit R and when WordStar asks "What program to run" I enter CBAS2 TRY. After compiling is done and WordStar tells me to hit any key to get back to WordStar, I hit RR and CRUN TRY. Any time I get an error message during compiling or running, I just hit NN to get back to WordStar under non document mode and an R loads my program listing. C-Basic like S-Basic adds line numbers as it compiles and reports errors by those line numbers. The WordStar data line also reports which line number the cursor is located on so you can find your way to your error. (This will not work if you have any INCLUDE files in your program.) I use the WordStar command KR to read in any of the modules I may need within the program I am working on at the time.

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Null Modem to Xfer Files

If you have ever had the need (or desire) to connect your Kaypro to another Kaypro (or another computer) to transfer files and you don't have a modem, here is a scheme to connect the two together which makes each think it is using a modem. You will also be able to transfer data at much higher rates than the standard 300 or 1200 baud that most modems afford.

If you have an existing RS-232 cable that you don't need for another purpose (I got mine at a swap-fest), make the following changes with a small (20-25 watt) soldering iron.

ON ONE END OF THE CABLE ONLY, unsolder the wires from pins 2 and 3, then reverse these two and re-solder them. Unsolder the wires from pins 5 and 8, then reverse these two and re-solder them. Unsolder the wires from pins 6 and 20, then reverse these two and re-solder them. ON BOTH ENDS OF THE CABLE, unsolder the wire from pin 4 and fold it back so it will be out of the way. Don't cut the wire, so you can return the cable to its original configuration should you ever desire. Then solder a small bare piece of solid copper wire lying across pins 4 and 5, forming a jumper between the two. Check all connections to insure that you made each change correctly, then reassemble the hoods on the DB-25 connectors.

If you don't already have an RS-232 cable which you can modify, you can make one up from a length of (at least) nine conductor cable and two DB-25 connectors. Follow the wiring diagram below, noting that pins 4 and 5 at each end of the cables are jumpered together.

NULL MODEM

DB-25 connector	cable	DB-25 connector
PROT GND	1-----1	PROT GND
XMTD DATA	2-----3	RCVD DATA
RCVD DATA	3-----2	XMTD DATA
REQ TO SEND	4--+	
CLEAR TO SEND	5--+	8 RCVD LN
	SIG DET	
DATA SET RDY	6-----20	DATA TERM RDY
SIGNAL GROUND	7-----7	SIGNAL GROUND
RCVD LN	8-----+5	CLEAR TO SEND
SIG DET	+4	REQ TO SEND
DATA TERM RDY	20-----6	DATA SET RDY

With the cable completed, plug one end into the RS-232 connector on the back of each computer labeled J3 MODEM I/O. Many communications programs can be used, but the use of SUPRTERM will be described here. Load a disk with SUPRTERM into drive A: on both computers, a disk with the files to be sent into drive B: on one computer, and a blank formatted disk to receive those files into drive B: on the other computer. Then, on both computers, type A:ST, and you will see the following one-line menu (on two lines here due to column width):

```
ST v 5 Command? [<ESC>/Break/Cmdfile/Dial
=====
/List/Print/Recv/Send/Term/Quit)?
=====
```

Then, on both computers, type T, and you will see the following menu:

```
ST v 5 TERM Option? [<ESC>/Baud/Duplex/
=====
Echo/Format/Nulls)?
=====
```

Again on both computers, type B to get the following menu:

```
TERM BAUD Rate? [<ESC>/A=110/B=300/C=600/
== BAUD RATE = 300 ==
D=1200/E=2400/F=4800/G=9600/H=19.2K)?
```

On both computers, select G to set the baud rate at 9600K. Press RETURN once to get back to the TERM Option menu, then once again to get back to the Command menu.

Then on the receiving computer, press R to get the following menu:

```
ST v 5 RECV Option? [<ESC>/Addlf/File
=====
/Lowup/onOFF)?
=====
```

Press F to get the following:

```
RECV FILE Mode? (Block/Terminal)?
=====
```

Press B, and you will see this:

```
ST v 5 RECV FILE Name?
=====
```

(continued)

Now enter the name of the file you intend to receive from the other computer. Wild cards, such as B:*.BAS, B:A????.*, etc., are acceptable. Press RETURN after the file name, and you will see:

```
ST v 5 RECV Option? [<ESC>/AddIf/File
=====
/Lowup/onOFF]?      BF=B:(filename.ext)
=====
```

Then press 0, and you will see this:

```
ST v 5 RECV CRC? (Crc/Nocrc/Abort)?
=====
BF=B:(filename.ext)
=====
```

Press C to invoke cyclic redundancy check (an error checking routine), and the following will appear:

```
WAITING FOR FILENAME...
== (Press Control X to Abort) =====
```

followed by a directory listing of all the files on drive B: (if that is the drive you specified) which match the FILENAME you entered.

Now on the sending computer, from the Command menu, press S and you will see this:

```
ST v 5 SEND Option? [<ESC>/AddIf/File
=====
/Lowup/onOFF/RemIf)?
=====
```

As with the receiving computer, press F to see this:

```
SEND FILE Mode? (Block/Terminal)?
=====
```

Press B, and you will see this:

```
ST v 5 SEND FILE Name?
=====
```

Now enter the name of the file you intend to send to the other computer. Wild cards, such as B:*.BAS, B:A????.*, etc., are acceptable here also. Press RETURN after the file name, and you will see:

```
ST v 5 SEND Option? [<ESC>/AddIf/File
=====
/Lowup/onOFF]?      BF=B:(filename.ext)
=====
```

Press 0, and you will see:

```
SENDING B:(filename.ext)      SECTOR#:
== (Press Control X to Abort) =====
1 OF      (number)      RETRIES: 0
=====
```

followed by a directory of all the files which match the FILENAME you entered before. If all went well, you will see:

```
SEND FILE TRANSMITTED OK AND CLOSED....
=====
(Press Return to Continue)
=====
```

on the sending computer, and:

```
RECEIVE FILE RECEIVED OK AND CLOSED....
=====
(Press Return to Continue)
=====
```

on the receiving computer. Pressing return will put you back to the SEND Option or RECV Option menu. If you want to continue, press F, then B, then enter the FILENAME of the next file you wish to send/receive. If you are through, press RETURN once more to get back to the Command menu, then Press Q to quit. Like most software manuals, the one for SUPRTERM seems to assume that most of us know more than we actually do, but a little diligence coupled with some experimentation will see you through other types of file transfers after you have accomplished this Kaypro-to-Kaypro transfer. If you have any difficulties, feel free to contact me at the following address, or leave a message on the KUGBBS, (516) 747-8308.

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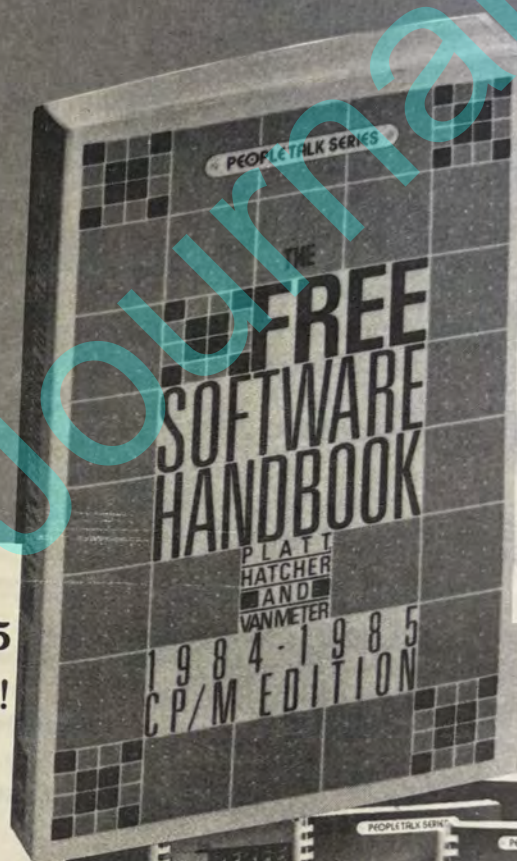
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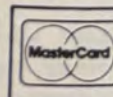
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AI Programming

by David M. Smith

There has been excellent response to my article in the last issue on the background of AI. In this article, I would like to introduce and explore some of the programming concepts which make AI such a fascinating field of study.

AI programming is very different from conventional programming techniques because it is designed to solve different problems. Two characteristics of AI problems set them apart from "normal" programs. These characteristics are called "symbolic processing" and "data driven programming."

Symbolic processing relates to the type of data the program is designed to handle. When you examine it carefully, very little of what we normally think about has a numeric value. Our thoughts are much more related to qualitative ideas which are expressed as symbols like "RED," "ON" or "YES." As its name suggests, symbolic processing represents and manipulates constants and variables as names rather than numeric values. For example, an expert system related to marketing might need to know if a customer was "INTERESTED," an idea simple to identify but hard to quantify.

Data driven programming relates to the structure (or lack of it) built into the programs themselves. "Normal" programs for business or scientific use address the same circumstances over and over, using different data but performing more or less the same sequence of operations. Data driven programming, on the other hand, appears to the programmer to leave its rules alone until there is data in the data base which agrees with all the conditions for that rule to execute or "fire." In fact, within certain obvious guidelines, the rules in a truly data driven program may occur in any order without affecting the behavior of the code. Again, this is more like our natural thought processes which tend to concentrate our attention on the subject at hand without continually processing every idea we ever had.

The question arises, however, about how the machine chooses among different rules when there is more than one rule able to fire. This matter is referred to as "conflict resolution" and is a topic of continued research in AI. Basically, what happens in a typical system is that each record in the data base has a "time tag" associated with it to show how recently it was modified. Each time a record is created or modified, its time tag becomes greater than any other. When looking for a rule to fire, the system first builds a list of all the rules able to fire and the time tags of the data satisfying the conditions. This list is called the "conflict set." The system then exercises its own internal conflict resolution rules independent of the user's rules to choose the "best" rule to fire.

OPS-5 is a production rule system designed to allow programmers to perform data driven symbolic processing. Its data base is referred to as "working memory" which consists of a collection of "statements" about the state of the world, each with its own time tag. For a simple example, working memory might contain

- 1: (AT SWITCH DOOR)
- 2: (AT WINDOW BOX)
- 3: (AT ROBOT CLOSET)
- 4: (ON ROBOT SHELF)

Its rules are stored in "production memory" as a set of conditions followed by the actions required. For example, one rule relating to the robot problem above might be:

```
(P CLIMB-DOWN
(ON ROBOT {<X> <> FLOOR})
(AT SWITCH <Y>)
(AT ROBOT {<Z> <> <Y>})
-->
(WRITE CLIMB DOWN OFF <X>)
(MODIFY 1 ^3 FLOOR)
)
```

This may be interpreted as: "The climb-down rule says that if the robot is on something other than the floor, and is at some place other than where the switch is, then write out the fact that it climbed down and change the robot status to 'FLOOR'." Notice that variables in the rule clauses are enclosed in '<...>' pairs. If the contents of working memory do not meet these conditions, the processor will never consider the associated actions.

Mini-Ledger Review

by Thomas S. Veile
for StylePerfect Associates

MINI-LEDGER from Paradigm Consultants, 39243 Liberty Street, Suite L, Fremont, CA 94538, (415) 796-0543. \$150 (or \$30 for user's manual and Demo disk only).

For those who have a Kaypro 4, Kaypro 10, or a Kaypro with equivalent disk storage area (i.e., at least 390K per drive), MINI-LEDGER provides an orderly way to keep track of monthly expenses and income.

MINI-LEDGER is designed for two purposes. First, it tracks income and expenses on a continuing basis. Second, it helps prepare your records for submission to an accountant.

The program is essentially an 8-column ledger in checkbook style (allowing check numbers, transaction types, 99 category codes, etc.) which produces monthly cumulative totals, yearly summaries, profit and loss statements, and a checkbook balance.

Specifically, MINI-LEDGER allows:

- Categorizing expenses and income;
- Keeping a running monthly total;
- Summarizing expenses, etc., by category;
- Printing out yearly summaries (spreadsheet style);
- Producing sorted, itemized printouts (with or without categories);
- Creating Profit and Loss statements (with percentages).

The manual consists of 80 pages in a three-ring binder. It is extremely well written, with loads of step-by-step tutorials. Included on disk are several demonstration files which are used with the tutorials.

MINI-LEDGER is menu-driven and is very clear and easy to use. In my detailed testing of two years' worth of financial records, MINI-LEDGER performed exactly as stated in every respect. It was gratifying (and truly refreshing!) to find a program that was obviously designed with the user in mind from beginning to end.

Reviewed by John Owen

Computer Assisted Investment Handbook is designed for anyone interested in using a personal computer to help make profitable investment decisions. The ultimate aim of the textbook together with the software is to show how to use the computer to shape investment decisions.

The textbook is made up of two parts. The first section deals with statistical methods and would be valuable for the sophisticated investor. The second section provides ready to run programs for the computer to assist in making investment decisions.

There are 50 ready to run investment oriented programs. They may be used as tools for investment management and planning decisions. The textbook explains clearly the concepts as well as the applications of each program.

Three primary factors concerned in the matter of acquisition or growth of capital assets are TIME + YIELD + TAXES. You may either minimize risk using conservative investment policies which limits your yield or interest paid on money or maximize risk which generally increases your rate of return and thus shortens the time factor. (6% doubles money in 12 years, 12% in 6 years.)

The text provides examples of financial and investment applications. The programs work well. If you want help in decision making that would involve questions such as home mortgage monthly payments, saving for college tuition in x years, assuring a fixed retirement income, and many other answers to practical problems, then you will find the programs of real value.

Decisions as to what investments, as well as when you should invest may be solved by this computer assisted handbook. The computer investment guide is available from Programmed Press, 2301 Baylis Avenue, Elmont, NY 11003, 516/775-0933, in two forms: ready to run diskette for \$100.00 (all 50 programs and manual) and the 226 page Investment Handbook only for \$19.95.

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D: Connects direct to grounded wall jack.
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You can use this powerful program to assign thousands of keystrokes to one or more keys on your keyboard. Once you have redefined keys, you can put them to work or change them at will. All without interfering with the regular function of your typewriter-like keyboard. You can also store your "smartkey" 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, inventory numbers, or whatever, and then injecting any of them into your work with the stroke of a single key. It's true, **SmartKey** makes computing exciting again.

Central's specially priced **\$49** combo pak includes **SmartPrint II**, a program that greatly enhances the operation of dot matrix printers. In addition, Central's combo pak includes, as an exclusive bonus, a free copy of Paul Golding's \$15.95 book, **Screen Smarts, The Computer Tamer's Guide**. This book shows 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 this hard hitting \$115 combo pak for \$49.

Warning: SmartKey II has many imitators. Comes with a complete step-by-step manual. Easy-to-use.

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.



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Name _____	
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Central Computer Products

Turbo Toolbox

by T.J. Chiang

After Turbo Pascal had been on the market for a while, Borland International, 4113 Scotts Valley Drive, Scotts Valley, CA 95066, put out Turbo Toolbox, a program package selling for \$49.95. It is totally different from their compiler, but it is meant to work with Turbo Pascal.

The Toolbox is a set of "tools," or utilities for use by Pascal programmers. There are three parts: a set of B-tree data access routines; an implementation of the Quicksort algorithm; and a General Installation Program (GINST). The first two are aids for writing your own database program in Turbo Pascal, and the third is for creation of new installation programs. The 100-page manual includes programming examples.

The first of the tools is probably the most useful but the most difficult to use. The idea behind it is that with a database composed of an immense number of records, a fast method of searching is required. You may search using keys, and you can create a separate index file; this file is composed of keys, and references to the actual records in the data file. Thus, all one has to do is search through the index file, and then access the database just once to locate a particular record. The system in the Turbo Toolbox is called Turbo Access, and it uses certain data structures called B-trees, which make the search through the index file even faster.

The routines on the disk are given as Turbo Pascal source files. They include procedures and functions for setting up, accessing, and updating the data file, and for setting up, searching, and updating the index file of keys. A programmer can tailor these to his specific needs, and then include them into his own application program. Certain individual features will vary from the source code given, but the basic operation will remain the same: searching through the index file for a key and accessing the associated data record.

(continued)

The second part of the Toolbox is the Quicksort routine, the fastest-known sorting technique for general purposes, and it usually takes the form of a recursive algorithm. The version in the Toolbox is non-recursive and is slightly slower. The source code includes some comments and is meant to be customized by each programmer. With the routine, it is possible to sort records on any single key, or with multiple keys; sorting is done in memory, using the disk when the database is larger.

The final part of the Toolbox is the General Installation Program. This simply generates a program to install a user-written application to a particular terminal, just as Turbo Pascal's TINST program installed it.

Now, how useful are these tools? The claimed purpose for these utilities is to allow a user to write his own database or other application program which fits his needs better than a commercial one. Undoubtedly, if that is what you want to do, you'll want these. Otherwise, however, their usefulness is limited. Actually putting the routines (especially the B-trees) to good use requires a quite competent programmer, and the end product might still not match dBASEII. The sparse comments in the code, and the manual's lack of a detailed explanation of the concepts, make education for a new programmer difficult with these tools. The Turbo Toolbox is not meant for the wide market that Turbo Pascal was. It won't do what Turbo Pascal did for new learners, but it can save a great deal of time for serious programmers.

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Bill Clark
272 Ridge Rd.
Wethersfield, CT 06109

Kaypro News

Kaypro Corporation has announced an upgraded version of the Kaypro 2X microcomputer. The new Kaypro 2X adds additional features of a 300 baud modem and a 5 year real time clock while employing double sided, double density disk drives, and retails for \$1595. The software (M-Basic, C-Basic, S-Basic, CP/M, WordStar, The Word Plus, MailMerge, CalcStar, Microplan, InfoStar, DataStar, Mite, and Selected Games) is supplied free with each machine.

The NEW ROBIE, a desktop computer that features two 2.6 megabyte floppy disk drives is ready for distribution. Innovations incorporated into the machine include a convenient 300 Baud built-in modem as well as a real time clock/calendar for simple dating of files and documents.

The NEW ROBIE differs from the old model in four respects: 1. The metal case has been re-designed to look much more pleasing to the eye. 2. The drivetec drive has been re-designed to solve the problem previously encountered. 3. The diskettes used are new issue. The media in the past had been a major part of the problem. 4. This computer uses the new universal ROM (same as used on the NEW 2)

Master diskettes are not interchangeable between the old and the new model ROBIE. Remember, using old media in the new ROBIE could do damage to the machine itself. Suggested retail price of the NEW ROBIE is \$2,295.00.

The universal ROM will be on every 8 bit machine. The data will be compatible with previous machines, but not the master diskettes. Use only the masters that come with the machine that you purchase. The best way to distinguish an old machine from the new is that when you turn your machine on it will say 2.01 and 2.2U, as well as having a label on the back stating this machine comes with modem/time clock.

The KAYPRO 16 computer is now being offered with a 512 upgrade installed. This fully tested unit will increase ROM memory from 256K TO 512K. The suggested retail price is \$3595.00, which covers installation, labor, and warranty.

Vendors

20MB DRIVE KIT FOR KAYPRO 10

from

Invent Software
199 Willis Ave.
Mineola, NY 11501

MENU-DRIVEN BUSINESS FORECASTING

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Stockmaster Software
3 Anders Lane
Pomona, NY 10970

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Technology Information Systems, Inc.
3621 N. Central
Phoenix, AZ 85012

KAYPRO LOCAL AREA NETWORK

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Adevco, Inc.
3790 El Camino Real, Suite 329
Palo Alto, CA 94306

CHARACTER ROM CHIP for '84 KAYPROS

from

Colin Borrowman
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Schenectady, NY 12309

BAR CODE READER

from

Micro Computer Business Systems
2621 West Laguna Azul
Mesa, AZ 85202

**

The VENDOR column is not advertising. We will list as many vendors as space allows. These listings in no way represent our endorsement.

KAMAS Review

by Arlene Smith

Most of us have some idea of what we want to say before we ever put pencil to paper or fingers to keyboard. We also have some kind of plan for the order in which we want to say things. Sometimes the plans rest only in our heads, sometimes they are committed to a firmer medium. In any event, what most of us actually do is prepare some type of outline as a framework for the text.

There's a new type of software designed to help you in the task of preparing outlines—an outline processor. KAMAS (Knowledge and Mind Amplification System), is an outline processor designed to work in a CP/M environment.

KAMAS is actually four integrated programs. Its outermost level is the outline processor. You may never want, or need to, explore any other level. The inner levels permit building text manipulation commands right into your outline structure, a Forth-like extensible programming language, and a system programming capability. This review, incidentally, was composed and written using KAMAS' outline processor.

When you enter KAMAS, you are in the "Rove" mode. From here, you may, among other things, create a new topic, browse through, reorganize or edit an existing topic, format a topic for output, or get help by pressing "?". Any choice from this menu takes you to a secondary menu, which also provides help. Another choice from the Rove menu is "Topic Environment." From here space is reserved for a new outline, the system status and a list of available topics can be displayed, the selection of the current working topic is made, and any password protecting of outlines is done.

After selecting your "build" topic (the one you wish to work on), you start entering the topic items. An item must have a title, and may have a subtitle and/or text attached. Items may be entered from Rove, or by selecting the "Edit" option on the Rove menu.

[continued]

All items under the title are "children," and each "child" can have "siblings" (items on the same level of the hierarchical structure). "Children" themselves may have "children"—as many as necessary to establish the relationships, which can be changed and/or reorganized and/or deleted.

Given a program of this complexity, KAMAS is not too difficult to learn. Some of the command descriptions were less than crystal clear, but it was still possible to find what I needed without too much difficulty. The range of uses for KAMAS are extensive—the User's Guide lists literally dozens, including: interactive novels; newsletter writing; business planning; and online documentation. I have already used it successfully for lesson planning and structuring programs for dBASEII.

The documentation for this package is unusual. The tutorial booklet, "Introduction to Outline Processing," is the only "required" reading. The two-volume User's Guide includes a more intensive foray into outline processing, then continues into the other levels of the program. The User's Guide serves also as a comprehensive reference manual, including a treatise on knowledge and knowledge processing, and a bibliography of readings in the philosophy of knowledge. For more details on the outline processor, Chapters 1 through 5 of Volume 1 are valuable.

The biggest disadvantage that I see in this package now (I haven't yet explored any of the inner levels of KAMAS) is the inability of other programs to read KAMAS files. A minor disadvantage is the lack of a command summary card. You can do without it, but having it would help.

I consider KAMAS to be a worthwhile and valuable addition to my software library. It gets used more and more. If you write, or have to organize your thoughts, procedures, or records, you'll share my opinion.

KAMAS is available from:

Compusophic Systems
P.O. Box 5549
Aloha, OR 97007.

We Explain Software Packages, Then We Teach You How To Use Them. **User's Guide** is the Magazine of Tutorials.

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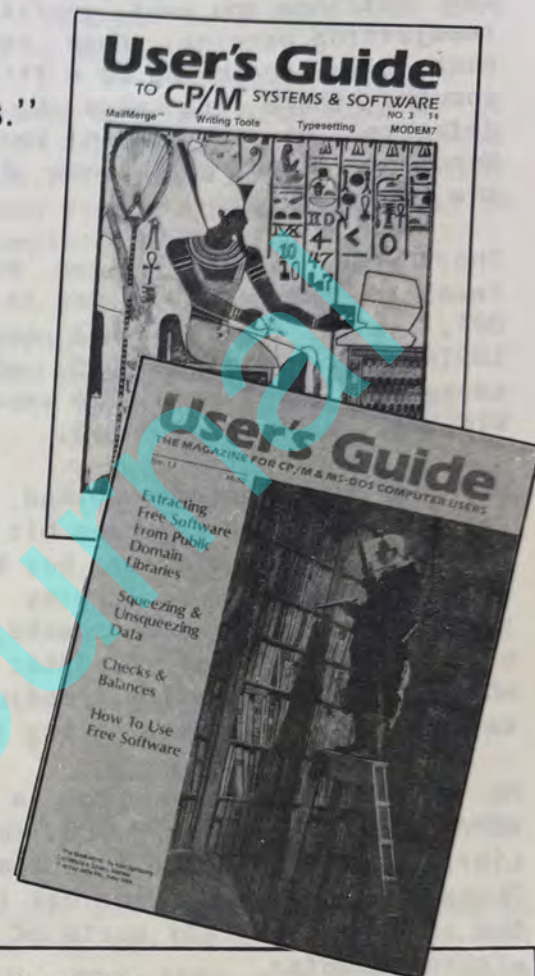
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Editors Tony Bove and Cheryl Rhodes are the acclaimed writers of several computer books on CP/M and WordStar. Contributing editors and columnists include other great writers who use computers extensively, such as Arthur Naiman, Steve Rosenthal, Jonathan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

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WORDSTAR by Chiang

CUSTOMIZING WORDSTAR'S DEFAULTS

When WordStar boots up, it comes with default settings for various onscreen formatting features. But if those aren't the settings you want, you'll waste time readjusting margins, help level, etc., each time you bring up a file. Luckily, though, there are ways to reset the defaults so that when you bring up WordStar you can go to work directly on the file.

There are basically two methods for resetting the defaults. One is by using DDT, which requires hex addresses, or INSTALL, for version 3.0, which needs addresses or labels. The second is with WINSTALL, with version 3.3.

DDT is the fastest method, and most versatile, but it can be a bit difficult. INSTALL is no simpler, but WINSTALL is easy to use. After a lengthy series of yes-no questions and checks, WINSTALL offers you a menu of WordStar features, which you can easily readjust. Use an extra copy of WordStar to try it out.

As for DDT, you'll need a copy of WSPATCH.DOC or WSCUSTOM.DOC, found on KUG Library Disks #123 and #132 respectively. These are nearly identical listings of the addresses for all sorts of functions within WordStar.

With DDT on your drive B disk, and WordStar in drive A, you can begin with B:DDT WS.COM. You'll see

```
DDT VERS 2.2
NEXT PC
4600 0100
```

Now, we'll use the S command to Set the value of certain bytes at various locations in the program. For instance, left and right margins are set at locations 37F and 380 respectively for ver. 3.0, and at 36A and 36B for 3.3. You can change them (a carriage return ending each line) this way:

```
-S36A (go set byte at address 36A)
36A 00 (a <CR> leaves this alone)
36B 40 45 (change this one to 45)
36C 03 . (go back to command mode)
```

You can see the previous hex value of the byte at a given address and then replace it. Here we changed the right margin to 45 hex, which is 70 in decimal. (Actually it's 69, but one is added because 00 gives a left margin of 1.) Now if you want to alter a couple of other things:

```
-S34D (go to address 34D)
34D 03 00 (set help level from 3 to 0)
34E FF (leave this value the same)
34F FF 00 (set INSERT off)
350 FF . (back to command mode)
```

We have now reset the initial help level and the toggle for INSERT ON/OFF. (The addresses are 360 and 362 for ver. 3.0.)

Now, if you want to see the changes you've made, quit DDT with a Ctrl-C. Type SAVE 69 WS.COM to write the file with your adjustments. Then, boot up WordStar and edit one of your files. You'll notice that the main menu is already gone, the right margin is at 70, and INSERT is off. You've saved yourself eight keystrokes each time you begin editing.

Of course, you can set the values to whatever you like, remembering that you must use hex values and FF or 00 to reset toggle functions. Among the toggles you can switch off are justification, hyphen help, page break display, or page numbering. A few things you can reset the values for are line spacing, top and bottom margins, header and footer margins, or page offset. And there are many more; buy one of the Library volumes to see just how many things you'll want to change.

You can see how convenient this could be if you're always adjusting the format settings. In addition, if you regularly write using different formats (manuscripts and business letters, for example), you could customize the copy of WordStar you use for each. You might want to rename the program, though, so that you don't get mixed up with your copies.

Next issue we'll discuss patches to speed up WordStar's execution.

* * *

Time to RENEW!??

perfect Filer to dBASE

You can take your records from Perfect Filer and make a file that can be appended to a dBASE database structure.

Take your word processor and write a file with your logical field tags from Perfect Filer separated by double quotes and commas, plus the angle brackets <> as follows:

```
"<name.lastname>","<name.firstname>","<address.organization>","<address.address1>","<address.address2>","<address.city>","<address.state>","<address.zip>","<busphone>","<homephone> <RETURN>
```

IMPORTANT NOTES: You must use the logical field tags and not the template tags to separate first and lastname, and all address components. Also note no comma or quote at the end of the file. Also, use double quotes to avoid premature termination of a field by an entry like "O'Brian." If you should have fields with double quotes in them, choose a delimiter you can live with and use the DELIMITED WITH <your symbol> clause. But, **MOST IMPORTANT**, you must have no carriage return **EXCEPT** at the end. Don't worry if word wrap breaks a word in the middle.

Should you want to create a new field that does not exist in your Filer database, insert a pair of double quotes surrounded by commas where you intend a new field to be placed. For example:

```
"<name.lastname>","<name.firstname>","<address.organization>","<address.address1>","<address.address2>","<address.city>","<address.state>","<address.zip>","","<busphone>","<homephone> <RETURN>
```

Now there is an empty field between the zip code and the business phone fields. Let's call this file **FIELDS.TXT**.

You must have a mail form that can print your input file (**FIELDS.TXT**) on a single line and not add any extra lines. To do this, create a printer form with left margin = 0, right margin 200 [tenths/inches] and single sheet. The continuous form option adds lines between records and you don't want this.

Now call up the Filer menu, and "Generate Mail," using **FIELDS.TXT** as your input file and your new printer form with the 20 inch margin. Then choose the file option from the menu screen. Pick a name for your output file such as "**NEWDATA.TXT**." Perfect Filer will then write your members to a text file that can be used by dBASE.

Prepare a dBASE database with numeric or alphanumeric fields in the same order as your **FIELDS.TXT** file with sufficient space in each field to hold your data. To use our example:

```
CREATE:
ENTER FILENAME: <yours>
(ENTER RECORD STRUCTURE AS FOLLOWS:)
FIELD      NAME,TYPE,WIDTH,DECIMAL
001        LAST,C,25
002        FIRST,C,25
003        ORG,C,40
004        STREET,C,40
005        APT,C,30
006        CITY,C,30
007        STATE,C,2
008        ZIP,C,5
009        ACCOUNT,C,10 (The new
                        field we are creating)
010        BUSPHONE,C,16
011        HOMEPHONE,C,16
012        <RETURN>
```

Note that the field names do not have to be identical to the Perfect Filer logical field tags, and that zip and phone numbers are entered as Character [C] fields, as math is not needed on these. After you hit <RETURN>, dBASE will write **YOUR.DBF**.

dBASE will ask "ENTER DATA NOW?" Type "No," then:

```
USE YOUR.DBF
APPEND FROM NEWDATA.TXT DELIMITED (you
must have NEWDATA.TXT on your dBASE disk
or your data disk).
```

You will see messages such as "100 records added" up to the end of the file. List the file and you should see your Perfect Filer data entered into a dBASE II database. Congratulations! You now have your Perfect Filer database moved into the world of dBASE.

Joanna L. Daneman
St. Louis Kaypro Users Group

Library

CP/M Stuff

- #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 STATISTICS 1
- #108 [Games] MBASIC MYSTERY
- #109 UTILITIES 2
- #110 [Pictures] POSTER PRINTOUTS
- #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 SUPER UTILITIES 4
- #133 STATISTICS 2
- #134 STATISTICS 3
- #135 STATISTICS 4
- #136 STATISTICS 5
- #137 STATISTICS 6
- * #128 [Game] FRANKENSTEIN
- * #139 LITTLE BLACK BOOK [MBasic update]
- * #140 [Database] FILE CARD DATABASE

* New contributions

If you would like to receive any of the above, send \$10.00 [for each] to KUG LIBRARY, Box 100, Malverne, NY 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.

We discussed the many virtues of SUBMIT.COM and how we could make one program do many things. However, they had to be done separately ... sort of "after the fact." There is another way that lets you work in and around other programs.

Enough talk ...let's DO IT!

On a newly formatted and sysgened disk, place the following files:

SUBMIT.COM [from your CP/M disk]
MBASIC.COM [from your MBASIC disk]
PIP.COM [from your CP/M disk]
TEST.SUB [from your word processor]

TEST.SUB should be written in the "non-document mode" and should read as follows:

```
DIR A:
PIP B:=A:*.SUB
MBASIC TRY
PIP B:=A:*.BAS
ERA B:*.SUB
DIR B:
```

With this disk in drive A:, type MBASIC and write the following program:

```
10 PRINT "THIS IS A TEST."
20 PRINT
30 L=L+1
40 IF L=10 THEN SYSTEM
50 GOTO 10
```

Save the program as "TRY."

Place a formatted disk in drive B: and at the A> use the <control> C and then type DIR to make sure that a new file named TRY.BAS is there.

At the A> just type SUBMIT TEST.

You can now write a program and automatically back it up without having to be reminded. AAAH CP/M !!!

In Response ...



...The WordStar block-write command (CTRL-KW) will overwrite whatever is in the file you write to. To combine several documents into one, open a new document, then read into it (CTRL-KR) the files that you want combined.

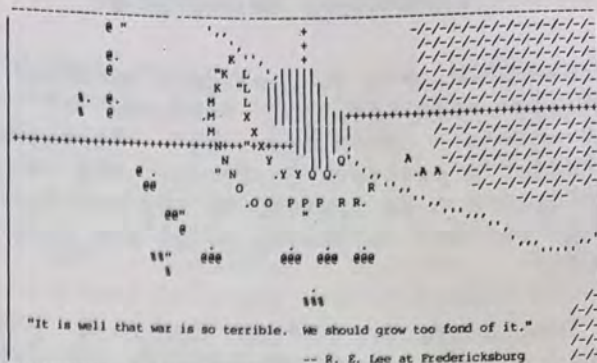
...To print the listing of an MBasic program on your printer, type LLIST from the MBasis "ok." To output the results to your printer, change all PRINT statements to "LPRINT" or add "LPRINT" statements to your program.

...To generate unformatted text with your word processor, select the Perfect Writer "Normal" Mode, the WordStar "Non-Document" Mode, or the Select "Alter" Mode.

...The following codes apply to: KAYPRO 2/84, 2X, 4/84, 4X, 10, and ROBIE (KAYPRO computers with graphics capability).

Reverse video start	ESCape,B,0
Reverse video stop	ESCape,C,0
Half intensity start	ESCape,B,1
Half intensity stop	ESCape,C,1
Blinking start	ESCape,B,2
Blinking stop	ESCape,C,2
Underline start	ESCape,B,3
Underline stop	ESCape,C,3
Cursor on	ESCape,B,4
Cursor off	ESCape,C,4
Video mode on	ESCape,B,5
Video mode off	ESCape,C,5
Remember current cursor position	ESCape,B,6
Return to last remembered cursor position	ESCape,C,6
Status line preservation on	ESCape,B,7
Status line preservation off	ESCape,C,7
Set pixel	ESCape,*,V1,H1
Clear pixel	ESCape, ,V1,H1
Set line	ESCape,L,V1,H1,V2,H2
Delete line	ESCape,D,V1,H1,V2,H2

...Static electricity plays havoc with your Kaypro. Be sure to ground yourself before working on the computer. Just touch something metallic first.



Robert E. Lee would have been very fond of GENRAL. GENRAL simulates the terror, anxiety, uncertainty, and despair felt by the commanders of armies in an imaginary war taking place a century or so ago. GENRAL is ...

... a TWO-player game. It requires TWO Kaypro computers communicating via their serial modem ports at 300 baud. The computers are non-playing "umpires"; they produce statistical reports and animated displays of the battle situation, and relay the players' commands between the machines.

... a REAL-TIME game. It is always "your turn". The video display changes continually as time passes.

... a COMPLEX game. Each player controls an army of twenty-six units. There can be action in several places at once, and the decision which to attend to first can be critical.

... a SERIOUS game. It has had five years of development and testing. The player's manual is twenty-seven pages long. A typical game lasts about two hours and requires constant, intense concentration. The game has an immense variety of possible situations, and does not grow stale with repeated playing. GENRAL can be played with pleasure by a novice, but proficiency and enjoyment grow steadily with practice.

GENRAL can be obtained from:

TEE-KAY SOFTWARE

P.O. BOX 23509

COLUMBUS, OHIO 43223

Pre-publication price: \$40.00 (until March 31, 1985)

Regular Price: \$50.00 (after March 31, 1985)

User's Manual only: \$10.00 Ohio purchasers add \$2.20 for sales tax

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Electra-Find

Tricking WordStar

I have been able to configure WordStar to utilize most of the features of my dot-matrix printer by "tricking" WordStar's printer controls. The logic employed can be applied to any printer as long as the following rules are kept in mind:

1. The Character Pitch Controls (^PA, ^PN) do not have to be pica and elite exclusively and can be used singly or in combination.
2. The User Functions (^PQ, ^PW, ^PE, and ^PR) can be used singly and in any combination.
3. The Ribbon Selection Control (^PY) must be used in pairs but does not have to control ribbon color.
4. The Carriage Roll Controls (^PT and ^PV) must be used in pairs and do not have to control subscripts and superscripts.
5. The other printer controls (^PB, ^PS, and ^PD) must also be used in pairs and must either be the innermost codes or the outermost codes when used in combinations with the above controls.

The printer which I have worked with is the Okidata Microline 92. With the Okidata I am able to use data processing mode, letter quality mode, pica, elite, condensed, double width, subscript, superscript, emphasized mode and any combination of the above, all within one configured version of WordStar!

The key to obtaining all of this flexibility with WordStar is the fact that the Ribbon Selection (^PY) and Carriage Roll (^PT, ^PV) controls can be used even though your printer has only one color of ribbon and does not roll up or down. My first attempt at using the Carriage Roll feature for subscripts and superscripts resulted in the discovery that they could not be mixed on the same line due to the method WordStar uses to print the line. After much experimentation the following set-ups were devised.

My default set-up is letter quality-elite as the standard pitch (^PN) with letter quality-pica as the alternate pitch (^PN). (Note: This is the reverse of WordStar's normal set-up and requires changing the defaults for the right margin as well as the page-offset.)

The Ribbon Selection codes (^PY) first switch to data processing and emphasized mode and then switch back to letter quality. If all of WordStar's printer controls were set up as the Ribbon Selection Control (i.e., the user can indicate codes to send for the first occurrence as well as the second occurrence), configuring a printer would be much simpler and more flexible as well as offering more options.

The User Functions are defined as follows: ^PQ turns on subscripting or turns off superscripting; ^PW turns on double width; ^PE turns on data processing and condensed width; and ^PR turns on superscripting or turns off subscripting.

The Carriage Roll code (^PT) is used to switch to letter quality mode and the code ^PV is used to switch to data processing mode. The pair of codes ^PA^PN are required to turn off the codes for double width, condensed width and switches to letter quality vs. data processing and return to the normal default setting of elite letter quality. (Note: If you make pica the standard pitch and elite the alternate pitch, you would only need ^PN to turn off these modes and return to the normal default setting.)

I call the above set-up WSL.COM and have a second version called WSD.COM, which is set up as elite-data processing mode and is used for all the rough drafts.

I have not as yet been able to find a way to use the Vertical and Horizontal spacing controls with the dot-matrix printer. If someone has devised a method, I'd be interested in hearing about it.

Marie F. Vihonsky
8507 Dale
Dearborn Heights, MI 48127

DISK 129: MONOPOLY & MBASIC GAMES

ADDING: Children's game. ANIMAL3: Learning program. BACCRRRT: Baccarat. BASEBALL: You control the pitches and batting strategies. BLACKBOX: The popular board game. CASTLE: Adventure game. CORRAL: Catch a horse in a corral. GUN: Hit the target. HANGMAN: Guess the computer's word. LANDING: Simulation of an Apollo lunar landing. MADLIB: Enter words and the computer will generate funny stories. MARS: Adventure game. MAZE: Enter the dimensions and the computer creates a maze. MONOPOLY: Computer-assisted game. PPONG: Aim a bouncing ball to hit a target. (Graphics oriented). RACER: Graphics-oriented game of downhill ski racer. RECIPE: Converts measurements of ingredients in different proportions. TRIVIA-Q: Trivia question game. TYPING: The game gets faster as your typing improves.

DISK 130: MASTER CATALOG

Programs for creating a master catalog file (MAST.CAT). CAT1.COM: Creates NAMES.SUB, an alphabetized list of filenames on a disk. CAT2.COM: Merges NAMES.SUB into MAST.CAT. CAT.COM: Searches MAST.CAT for user-defined parameters. XCAT37.COM: Removes any duplicate filenames; creates a file that lists each filename only once. CATX.COM: Compares two separate MAST.CAT files.

DISK 131: LOGO GENERATOR/MX80-FX80

Programs for the printing of small designs or logos on a dot matrix. Some .PAS (Turbo Pascal) source files are included. Familiarity with the language and your printer's operation may allow you to reconfigure these for your machine. GLABEL.COM: Demonstration application program, utilizing the logos you create. GRAPH.COM: Main program, allowing the actual design of your logo. LABEL.COM: Another application program. LOGO1.GRF: Examples of saved logos. PRINT.COM: Printer listing utility. SALES.COM: A third application program. SWAP.COM: Program to alter the size of PW's Swap File.

CB.COM: Gives a cold-boot. CHAR20.DOC: A hand-coded file containing the full ASCII character set. CLIC.COM: Gives some toggles for the Kaypro, with a keyclick switch, Greek character set switch, and clear screen switch. D.COM; D2.COM; D3.COM; D4.COM; D5.COM: Extended directory programs. DECRA\$H.DOC: Hints on how to recover from a system crash. DIR.SRV: Miscellaneous thoughts by Mr. Hofmann on directory programs and on organizing a survey of the ones found in the public domain. DIRSAVE.DOC: Gives various procedures to try if the directory tracks of your disk have been scrambled. EPSFX80.COM; EPSNMENU.COM; EPSON.COM; EPSON.DOC; MXSET.COM: Menu programs presenting choices to program the operation of an Epson: line spacing, italics, compressed or double width, pitch, font, unidirectional printing, and self-test. FILEFRMT.DOC: Mr. Hofmann's thoughts on the idea of a standard format for catalog descriptions of files. He is looking for a format that will give basic, necessary information concisely, allowing people to see if the program is what they're looking for. KAYPRO.DOC: About CP/M in general, with specifics toward its implementation on the Kaypro II and the Kaypro 8 (product of a Micro Cornucopia modification). MENU-V2.COM: Creates a menu of the .COM files on disk. OK.COM; OKI.COM; OKI.DOC; OKI92PAR.COM; OKIMENU.COM; OKIMENU.DOC: Similar to the ones above for the Epson, listing various options. OKI.DOC is actually a source file from SBASIC, showing the Escape sequences which are sent to make the adjustments. PRINSET.COM; PRINSET.TXT: A general purpose menu program for setting the printer features you want. Presently configured for an Epson FX-80, but can be altered using DDT. PRINTFAC.DOC: Mr. Hofmann's observations on printer initialization. WASH-E.COM: A version of the disk maintenance program WASH which uses (E)rase instead of (D)delete. WSCUSTOM.DOC: A revised version of WSPATCH.DOC, found on Disk #123. Lists the presently-known addresses for various functions of WS, allowing patching or alteration with DDT. WSPAD.CFG: Two patterns for configuring your keypad for use with WS. WSPRINT.MO: Information on WordStar's names for its printer codes, similar to WSCUSTOM.DOC.

Sysop's Corner

By Frank Fallon

Reading documentation is a drag, but in order to use a computer effectively you must read. And so it is with using the Kaypro SIG on CompuServe or KUGBBS. Both systems have help files and bulletins designed to make a user's life easier and to save money. Yet, despite what has been written, some people are still confused and think that they can get to CompuServe through calling the KUGBBS number.

Another point of confusion is that once you arrive at the Kaypro SIG on CompuServe, you must become a member, EVEN if you are already a KUG member. You must select "to become a member" and answer the questions. Automatically you will be added to the SIG membership list. Please read the bulletins and then look at the appropriate HLP files in DLO. It will save you time, money, and more importantly, frustration.

As soon as you are familiar with the menu letter commands, get rid of the menu by entering OP at the function menu and then set NS;BR and anything else that will speed up your operation. Remember to make them permanent with P before you T out of the OPTions area.

Some users are confused by the file types, especially BIN files. BIN files are 8-bit binary files very like COM files. You cannot <R>ead them and they must be downloaded using XMODEM protocol. The HLP files in DLO explain the procedures to be used. We are about to use LBR files to save you time downloading. An LBR file is a BINARY file made up of a number of files (DOC and COM) which have been squeezed and libraried into one smaller file to save you downloading time and therefore money. Once you have downloaded this LBR file you must open the library and usqueeze the files before you can use them. You need LSWEET13.COM (KUG Library Disk #124) to do this. With LSWEET in A: and the LBR file in B: you enter at

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

With the aid of a menu you will be able to <V>iew, and <E>xtract usable files onto the disk in the B drive.

I was asked recently to explain how to search for a message. This is a very powerful feature of the message board in CompuServe SIGs. You use the RS at the function prompt. When you enter RS <CR> CIS will come back with Search field: If you enter a ? CIS will reply with the Search Field Menu:

```
(F) From
(S) Subject
(T) To
```

If you answer F you will then be asked for Search string: You would answer with a last or first name and then CIS will ask you for a message number at which to begin the search. After you enter a number CIS will print out all the messages from that individual. It could get a bit complicated if you had a number of people with the same first name. Last names are a better choice.

But the best way to search is to link commands in this fashion: RS;S;BBS (You don't need caps. I entered it that way to make it easier to see.) This will get you messages concerned with BBS. It doesn't matter where BBS is listed in the message title. So long as it is there CIS will print the message to you. RS;F;FALLON would get you all the messages I had sent. RS;T;FALLON would give you all the messages sent to me. Try RS;S;MITE if you are a MITE user.

And then there is RT. Find a message subject that interests you and enter RT;##### (##### is the message number) and you will get all the messages that have to do with that thread or subject.

REMEMBER THE NEW KUG BULLETIN BOARD
NUMBER IS

516-747-8308

(continued)

KAYPRO Upgrading

By Gregg Platt - PeopleTalk Associates

Although some of us would be content to use our Kaypros only for word processing, and spreadsheets, there are many situations where we're forced to consider using a product like Dbase-II, Filer or DataStar to fill needs which can only be addressed by a database program. Of course, since the data handling needs of Kaypro users are as varied as the users themselves, it should come as no surprise that there are dozens of good database management programs to choose from.

If you are new to the world of computing, this proliferation of software may seem confusing, but there is a good reason for it. The fact is that databases come in a variety of shapes and sizes to suit the needs of different types of users. For example, a church or user group might get along well with a mailing list manager like Perfect Filer, whereas a corporate marketing director or technical writer might use a product like Kamas (the super new outline processor and text database manager which has been highly rated by many Kugers) for writing sales proposals and/or documentation. On the other hand, you may be (or know of) a user who is devoted to Dbase-II a programmer-oriented database product well suited to a variety of needs (assuming you have a programmer available), or you may be using DataStar with ReportStar to manage your data. Other popular database programs include Personal Pearl (a good file manager with limited processing capabilities), Salvo (a state of the art relational product which combines a database manager with an English interpreter that allows you to talk English to your computer and get meaningful replies). And when one moves into the Kaypro-16 world a whole range of new products are available from the relatively unsophisticated Lotus-1-2-3 (an excellent spreadsheet with limited database talents), to the powerful new Dbase-III, Rbase-4000, and many others.

The truth is that hardly a day goes by without a new database product being introduced (each with more marketing hype than the previous best) and that none of these programs is perfectly suited to the needs of every user.

If you received DataStar with your Kaypro please don't overlook this product when searching for a database manager. Though DataStar's documentation leaves a lot to be desired, it offers a number of unique features including the fact that it is extremely memory efficient (a feature of very few programs these days and a MAJOR plus for Kaypro users), very flexible, and hard to beat for data management purposes when coupled with ReportStar.

At PeopleTalk we had been using Perfect Filer and Calc for order processing and database management for nearly two years (we try to practice what we preach) but in December we decided we'd reached the point where a more integrated system was needed. Naturally our first idea was to switch to the new Perfect Filer and Calc but we soon discovered these programs weren't available for the 10 (our chosen machine for the new system). We then took close looks at Dbase-II, Personal Pearl, and Salvo but ended up eliminating each program either because it wasn't powerful enough to meet our needs (Pearl fell down here), was too programmer intensive (Dbase-II was rejected on this basis) or required more memory than we could afford in a multi-machine network. The network programs we were considering all required several "k" of memory and most programs (including Pearl, Dbase, and Salvo) would not fit in memory with a 3-5k network manager hiding above them.

Although we hadn't considered DataStar originally (the lousy manuals scared us away) we soon found ourselves looking at it in hopes that it might fit in memory with our network controller and still be able to meet our processing needs. We were amazed to discover that we'd nearly overlooked a very impressive program.

We were helped along the way by a great new book on the MicroPro package written in England specifically for Kaypro users. We were so pleased with the program AND the book that we ended up redesigning our order processing and inventory control systems using DataStar/ReportStar and we bought the book for publication as well. Watch this column -- we'll have more to say about databases in coming issues and watch for PeopleTalk's new ALL STAR GUIDE TO KAYPRO COMPUTERS coming off the presses soon!

Writer's Guide Review

I purchased a program called WRITER'S GUIDE. It's an easily understood two-screen menu which replaces PERFECT WRITER'S three menus, combining their features with a number of others, making PW noticeably easier and more pleasant to use. Most menu operations are reduced to a single keystroke.

The 18 page instruction manual is the best written, most lucid piece of work I recall seeing in the computer field. It clearly describes the program's installation and each of its desirable abilities. (The installation is, essentially, the replacement of the PERFECT WRITER menus with the WRITER'S GUIDE menu.)

How does it work? Two days ago I started a letter to KUGRAM, using PERFECT WRITER.

Today I turn on the Kaypro, put PW into drive A, and put my file disc into drive B. A menu appears. I push 'e' and my KUGRAM letter is on the screen, ready for editing. Got that? One keystroke, and I'm back where I was when I quit last time. No "What is the name of the file you wish to edit?" No file name to type in. Just 'e.'

I finish my letter, save it, and exit to the menu. I remove the edit disc and replace it with THE WORD PLUS. I push 's.' One keystroke. WORD PLUS goes into action. After correcting the spelling gaffes, I shut everything down and have lunch.

Later in the evening I switch on, insert my PW and file discs, and the menu appears. I push 'h' and on the screen appears the number of words in my letter, along with the number of sentences, average letters per word, and average words per sentence.

Before printing, I'd like an idea of how the letter looks. Again, one keystroke. I push 'l' and my letter begins scrolling up the screen. I control it with 'control-s.'

All is well, so I push 'p.' One keystroke! The response is "Printing 'B:KUGRAM.FIN' on device 'EPSON-D-10' — OK?" I push 'y.' and my draft copy appears. I'm happy with how it looks, and decide to print my finished copy.

I push 'ob.' ('Sorry, but some things take more than one keystroke.') I'm asked, "Format for device:"? I type 'epson-c-10,' (my name for correspondence quality, 10 characters per inch, on my FX-80). I push 'return.' then 'p.' When asked if all is okay, I push 'y.' The correspondence quality letter is produced.

Have I been working on any other documents that should be finished this evening? I push 'b'. The 52 filenames on my file disc appear on the screen. Previously, when I wasn't sure whether I had named a letter 'kug' or 'kugram,' I had to scan the directory to find it. Now the files are in alphabetical order, and the size of each is included. Read that last sentence again — that alphabetized arrangement is a real time and patience saver!

Other single keystroke functions include 'Copy a file,' 'Rename a file,' 'Format only — do not print,' and 'Exit to CP/M.' There are 12 toggled options, including one that turns the keyclick off; some people think it's great to work without the chirping.

At all times the menu indicates the drive I'm working on, as well as the space still available on each drive. In addition, I can easily change the size of the swapfile, a facility not included by Kaypro.

And — when the menu is on the screen, I can open either drive door, change discs, and still write my file without the dreaded R/O message. No ^C to warm boot is necessary.

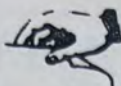
WRITER'S GUIDE costs \$35.00. To order, dial 800-531-5255. Or, write to Interior Systems, Inc., Box 188, Joelton, TN 37080.

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(continued)



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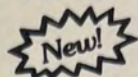
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