

MUCH ADO ABOUT SOFTWARE

Not too long ago, the headline was ...
"As The SOFTWARE WORLD TURNS."

Well here we are again to discuss the new "bundled" software from Kaypro, only this time with a "different" twist.

Since Kaypro stopped offering the Perfect Software Package and substituted the Micropro Package, we are getting swamped with mail. The two main questions asked are: Will KUG continue to support the Perfect Package? How can we get the new Micropro and Ashton Tate (dBASE II) packages?

Perhaps the best way to answer the first question is to state that it will always be KUG's policy to support whatever is needed or wanted by the membership. Since many of the software "bugs" in PW have been discovered by YOU, it would be unfair not to share this with the thousands of PW users that read the KUGRAM. In fact, we are adding to our library word processing utilities that use PW. We are also adding programs that work with PC and PF.

The new turnabout has also created problems for printer configurations. At first, we had to be concerned only with configurations for Perfect Writer. Now, we are getting requests for both Wordstar AND Perfect Writer. It has forced us to try to handle this problem in a different manner. (See Printer Configs.)

We are also trying to develop a closer relationship with the Perfect Software people so that we can let you know of any updates or changes.

As long as your mail dictates that you have a need, and as long as you continue to send us articles and tips regarding the Perfect Package, we will follow your wishes.

The answer to the second question requires much more thought and co-operation from areas outside of KUGLAND.

The problem here does not lie with the Kaypro Corporation. Since all the software that is supplied with the Kaypro is offered as a package, the cost to Kaypro is very low. However, Kaypro may not sell the software packages individually. Therefore, we must look elsewhere.

KUG recently received a letter from Paul Ofman, a KUG member and a member of NYKUG, in which he offered a possible solution. Paul suggested we contact Micropro and Ashton Tate to see if they would be interested in developing a way to get the new software out to the KUG community. We felt that this would require an all-out effort and told Paul so. He answered in the usual KUGGER manner, "I'll be happy to do it."

As of this writing, letters have gone out to Micropro and Ashton Tate asking them to consider a way to get their software packages to you at a VERY reduced rate. We have promised to promote the special rates and their support through this newsletter, the KUG Bulletin Board, CompuServe and the news media. If you have any thoughts along these lines, you can let Paul know by writing to him care of KUG.

Another thought ... how about getting Kaypro dealers to offer a special discount to KUG members? Perhaps our ID card can be used for identification. Some of the dealers we have contacted agree. How about asking your dealer if he would like to participate? Then let us know who, where and how much.

Software, software, who's got the



Box 100



Dear KUG,

Those KUGGERS who have used SMARTKEY II (or similar software) to reconfigure their keyboards to the DVORAK layout have run into a couple of problems. Here are two hints:

1) The <CTRL> key doesn't reconfigure, so your new keyboard demands that you type J to get your old C, and so forth for every Control character. It will drive you mad. It's much easier to define an easy-to-reach key (I use the accent grave) as your SuperShift or XShift. Then define SuperShift "a" (on the Dvorak keyboard) as A (Hex 01). Continue to define all of the Supershifted lower case letters as Control characters. It works very well. The best part is that now you won't have to hold two keys down at once for Control characters.

2) Now that you've defined your keyboard you'll find that the minus sign, comma, and period on the numeric keypad are all messed up. Take heart, you can use the CONFIG program on your CP/M disk to correct it. Redefine the minus to Hex AD, the comma to Hex 77, and the period to Hex 65. It's easy to do, but see the PROFILES article in Vol. 1 no. 1 or Vol. 1 no. 4 if you're nervous. Make sure that you CONFIG onto your SMARTKEY working disk, which must be the first disk you boot up.

All this is great, but it's leading up to a problem I still haven't solved. Has anyone found a way to tell the CAPS LOCK key to work under the Dvorak keyboard? I'm tired of getting "s" instead of "S" and ">" instead of ".".

Thank you, KUG. Every KUGRAM has made my life easier, and the responses I received from an earlier letter have led to the founding (with your assistance) of a small but active Users Group here in south central PA.

David C. Kennedy
223 N. Broad St.
Waynesboro, PA 17268

Dear KUG,

I have a contribution which might be of help to other KUGGERS. When we bought our printer, we did not buy the tractor-feed, and sometimes had trouble keeping the paper straight. One day, it occurred to me to try clipping two spring-clip clothespins on the paper rest at the back of the printer, one on each side of the paper, as guides. It works like a charm and has saved us the considerable expense of buying a tractor-feed.

Mrs. Lois Richardson
1150 Woodside Dr.
Flint, MI 48503

* * *

Dear KUG,

Melvin Plotinsky's contribution titled "Page One of Page ?" in a recent KUGRAM was most informative and appreciated. In accounting reports the "Page-of-page" heading, or footing, is a must.

However, I use Perfect Writer Version 1.20 in which case the Pageheading command must be [RIGHT={Page @VALUE(PAGE) of n pages}] and not VALUEPAGE as one word.

Moreover with Version 1.20 I do not experience any difficulty in the placement of the right or center pageheading when the last line of the previous page ends short of the right margin. Maybe I am just lucky?

A.H. Bennett
2961 First Ave.
San Diego, CA 92103

* * *

Dear KUG,

Melvin Plotinsky's page numbering commands (Vol. 2, no. 4, p. 13) are neat and useful to academics but should read:

@PAGEFOOTING()

@PAGEHEADING(Right='Page @VALUEpage of 5 pages')

D. Gartrell
Department of Sociology
University of Victoria
P.O. Box 1700
Victoria, B.C., Canada V8W 2Y2

Dear KUG,

Vol. 2 no. 2 contains a question on Perfect Formatter—how to avoid the indentation of quotations—which I can answer for the reader concerned.

PF does not differentiate between quotations and paragraphs, so we have to help it do so with the following procedure.

(i) Enter the Perfect Writer Style Parameters with the PFCONFIG program and change the default indentation of new paragraphs to zero micas.

(ii) When creating text, proceed as normal—i.e. start paragraphs with a new line and a TAB as one usually does.

(iii) Before formatting document, "search and replace" the TABS with the following formula: <TAB><@W[space, space, space, etc.]> where the number of spaces inserted equals the desired indentation of each new paragraph. Or use SMARTKEY or a similar program to have your TAB key insert that formula as you write.

The effect is to tell PF to set paragraphs and quotations at zero indentation while inserting a number of blank spaces at the start of each paragraph. It sounds clumsy, but it works effortlessly and does not affect any other formatting parameter.

Now for some questions of my own.

I would like to add a CPU hop-up kit and RAM disk to my Kaypro II. Will they affect the Hebrew/English character generator which I have had installed?

If I replace my K-II disk drives with the 800K upgrade of Legacy (using the TEAC 55F quad density drives), will I still be able to use the expanded Uniform program?

Does anyone know of a Russian language character generator for the Kaypro?

Can one buy a reliable RAM disk without also having to buy the 16-bit co-processor?

Dr. Ronald W. Zweig
P.O. Box 1042
Mevas Eret Zion, Israel 90805

Dear KUG,

I found a neat trick for all the Kaypro 4 users who have Wordstar and The Word but not Spellstar. Now you can have the best of both worlds. To interface The Word with Wordstar and use the "S" (run Spellstar) option from WS's opening menu, PIP a copy of The Word files onto your WS disk and rename TW.COM to SPELSTAR.OVR. It works great. Of course, if you don't need all the goodies that come with TW, just delete them and free up some disk space.

Clifford W. McIntyre
818 Ringgold Street
Wahiawa, HI 96786

* * *

Dear KUG,

The Data Products Division of Capital Telephone Company, P.O. Box 34470, Bethesda, MD 20817, (301) 469-9220, is well-known to KUGGERS as the supplier of quality CRT antiglare screens for the Kaypro 2 and 4.

Our current production run of the Kaypro CRT screens will be our last for this product.

When our current inventory is depleted there will be no more. Orders will be filled on first-come first-served basis. Should a KUGGER's check or money order reach us too late, it will be immediately returned uncashed.

KUGRAM will be notified when the CRT screens are sold out.

This means we will continue to supply the CRT screens at our special KUGGERS price only while supplies last (\$19.95 each plus \$1.50 for insured first class mail within the U.S. and Canada—other countries, please add \$3.00). Maryland residents please add 5% sales tax and District of Columbia residents 6%.

Mark Stephens
Manager, Customer Support

(Editor's note ... the screen described above is used on our Kaypros with excellent results.)

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Please, 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 today.

Introducing A Classic Form Fitting Kaypro Cover

At last, the classic Kaypro dust cover you'll be proud to own and use. This first rate computer cover is made from a premium, lint free, static free, washable, free breathing, and fade resistant sailcloth. It comes in a rich looking Navy blue or Royal blue, and has a smart contrasting silver gray piping and trim that adds a superior finished look. Made to form fit and protect a Kaypro that is set up and ready to use.

This remarkable dust cover makes you feel good and will keep your computer dust free and looking brand new for years to come. For a limited time only, your price for this factory direct, custom made, sailcloth Quality Cover is \$16.95. When ordering remember to indicate color preference. This special low price is subject to change. You must be completely satisfied with your purchase of this cover or we will refund your money immediately. Order today.

Richly tailored inside and out. Look inside any of our Quality Covers; see the ultimate finishing; we use machines that sew with 3 needles so that no edge will ever unravel or shed lint. We stress perfection because you deserve the best. Compare for long-lasting satisfaction

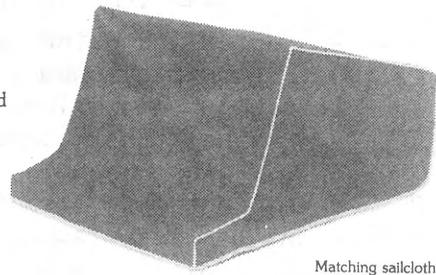


Photo: Form fitting Kaypro cover.

Matching sailcloth printer covers are \$14.95 each. Complete list sent with order.

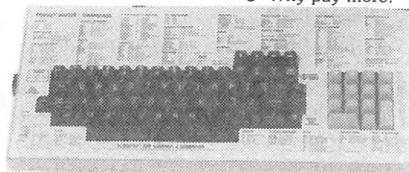
New. Special two-piece Kaypro sailcloth cover. Set covers CPU and keyboard. \$19.95 per set.

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Time-saving Kleertex templates are made from a durable, non-glare plastic, and can be put on and lifted off the keyboard instantly. The software commands on Kleertex templates are easy to read and are conveniently arranged in alphabetical order. With a Kleertex template on

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 two or three keystroke software command or format. 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 Perfect Writer/Filter 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 \$18.95. Choose any two templates for \$35 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.

CONSOLINK MICROSPOOLERS

Description	List	Price
64 K P-P	\$315.00	\$279.95
64 K P-S	\$343.00	\$299.95
64 K S-S	\$349.00	\$299.95
64 K S-P	\$339.00	\$294.95
Cables	\$ 56.00	\$ 29.00

The Kaypro can dump a file faster than a printer can accept it. So, it's great to have a device that will catch the file, quiet the disk drives, and give the computer back to you.

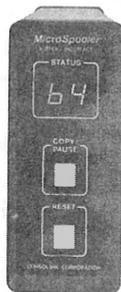


Photo: MicroSpooler 64 K P-P

- 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 to male connector. — Please tell us model and type of printer you're connecting to your computer.

Includes these unique features:

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- Multiple copy function
- Temporary pause function
- Sleek internal power supply
- Comprehensive self test routine
- Slimline attractive casing
- Front panel reset
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Lifetime Guarantee!

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- \$27.00 — DS-DD 10/Box
- \$21.95 — Head Cleaning Kit
- \$49.95 — Desktop Anti-Static Mat

Cables

Top quality, individually tested 36 pin Centronics-type standard parallel cables for all model Kaypros. These are made to work hard and long. Guaranteed.

- 5 ft cables ... \$18.95 each
- 10 ft cables ... \$24.95 each

Top quality, individually tested ribbon modem RS 232C cables designed with reinforced clamps for a sure continuous connection and made especially for your Kaypro. These work every time.

- 2 ft cables ... \$14.95 each
- 5 ft cables ... \$16.95 each

Dear KUG,

I bought products advertised in Vol. 2, no. 2 KUGRAM and want to share my impressions with other KUGGERS. Maplesoft, Box 13356, Kanata PO, Ottawa, Ont., Canada K2K 1X5, sells "On-Line Typer" and "Snapshot." Individually they cost \$25 but may be purchased together in a program called "SST" for \$30.

"SST" gives you the ability to use your Kaypro/printer team as a typewriter for writing hasty notes, addressing envelopes, typing on pre-printed forms or adding comments to program listings. A screen dump routine hides in upper memory and is transparent until you type Ctrl- (underline). Whatever is on your screen will be printed out on your printer. You can record a game score, dump out Perfect Writer printer configurations or part of a spreadsheet. The execution of the program has no effect whatsoever on the screen or the parent program other than to freeze it until you type Ctrl-T. With SST you can even stop a game long enough to plan your strategy.

The documentation for SST is outstanding. When SST.DOC is printed out it contains over 14 pages of good information about how to use and customize the programs. (By the way, the disk contains the source code, a real hacker bonus!)

Another super Maplesoft program is "Command Central." This \$39 program has all the features of WASH.COM and a lot more. "CC" presents an alphabetized directory listing with a cursor key controlled pointer. Point at a file and touch any key and you can erase, copy, print or view the file at the console without every typing in the file name. Files can be tagged for batch operations and there is even a string search capability. One fantastic goodie is the ability to page or line scroll the file you are viewing. I get very frustrated when I stop a file with Ctrl-S and then accidentally end up with a warm boot when I try to restart the file. "CC" ends this problem forever.

CDR John C. Connell, Jr.
Executive Officer
USS Vreeland (FF-1068)
PO Miami, FL 34093

Dear KUG,

I would like to contribute to the data supporting the co-ordinated use of PW and WS. The text manipulations and yankback features of PW cannot be matched by WS, nor can the printing ease and control of WS be found in PW. I would like to elaborate on the suggestion of Jean-Paul Le Bourhis (Vol. 2, No. 4, p. 3) to write in PW's normal mode and format in WS. With the following few steps, I can compose in PW's fill mode (more readable for me), then format and print in WS. By placing two returns (<cr><cr>) after each paragraph, three search and replace (S&R) commands and a repeated paragraph reform command do the trick.

First, search for <cr><cr> (using PW) or Ctrl-N Ctrl-N (using WS); then replace these with a seldom used character, e.g. "%." This is to maintain the integrity of the paragraphs. Next search for <cr> or Ctrl-N and replace with one "space." This removes the "end of lines" from the PW text. (These two initial S & R's can be done in either WS or PW.) Now reverse the process in WS. Search for % and replace with Ctrl-N Ctrl-N, re-establishing the paragraphs. For speed use WS's S & R options, "NG." Next, turn off the hyphen help, OH, and reform the paragraphs with a Ctrl-QQ Ctrl-B. Now you are ready to format and print in WS.

NOTE: In WS both S&R and Reform can be stopped by CTRL-U or sped up by touching any key.

There are some fine points to this process. (1) The S&R procedures in PW and WS can do the initial S&Rs, but they perform the task differently. Examine each to see which suits you better. (2) "End of lines" from PW will print on WS; they just do not mix well during the WS paragraph re-forming, Ctrl-B. (3) Hyphenation is possible, but WS stops to ask for verification. It is time consuming. (4) If the PW file is right margin justified, S&R out the extra spaces as described in PROFILES Vol. 1, No. 2, pp. 52-57.

This procedure combines the strengths of Perfect Writer and Wordstar.

Mark Hirschmann

Dear KUG,

Here's how to print out a 550 page manuscript on a Kaypro IV, or a 250 page manuscript on a Kaypro II. It means you have to do without fancy fonts like underlining, italics, and boldface. You CAN use chapters, sections, footnotes, and double-spacing. Everything will be consecutively numbered, and you will also get a very nice table of contents. This method uses a stripped down Quick Print option in PW, so all its possibilities and limitations are there.

1. Write your book. Create one file for each chapter just as you normally would. Use as many disks as necessary. Use STAT to determine the size of the individual chapter files.
2. With your PW working disk .create an INCLUDE file, we'll call it BOOK.MSS, as follows. The files BOOK.MSS refers to on DRIVE A may contain a total of 345k for the IV, 135 for the II. The files BOOK.MSS refers to on DRIVE B may completely fill the disk. (Be very sure to include drive locations as well as file names in BOOK.MSS.)
3. Now take a blank formatted disk and use pip to copy PF.COM and PF.DAT onto it. These two files use up about 42k. This will be your DRIVE A disk.
4. Next pip your INCLUDE file, BOOK.MSS, onto the same (DRIVE A) disk.
5. Carefully pip your individual chapter files onto the A disk and B disk, making sure that each file is on the disk referred to by the INCLUDE file.
6. At this point you should have two disks: the A DRIVE disk has PF.COM, PF.DAT, an INCLUDE file referring to the various chapters, and whatever chapter files you have selected for the A DRIVE. The B DRIVE disk has only chapter files on it.
7. Place the disks in their respective drives.
8. At the A> prompt type: PF BOOK.MSS -P
9. You will be sent into Perfect Formatter with the Send To Printer option, and your book will be printed in its entirety.

If only for drafts, this is a marvellous method for printing.

Michael A. Gilbert
70 Withrow Ave
Toronto, CANADA M4K 1C9

I don't know if I am your first member on the African continent or not, but at any rate Kaypro users are not exactly numerous here in Zaire. We in African Christian Mission are using my Kaypro IV as part of a Bible translation program, and whenever anything goes wrong, or any problem comes up, I either fix it myself or it doesn't get done. That's where the KUGRAM has been so very helpful. Every issue has contained something which I have needed. We are using Perfect Writer to enter and edit the text of the Old Testament, and the many hints on how to "trick" Perfect Writer into formatting the way you want it to have been especially helpful.

We are also compiling a Swahili dictionary to be used with the Word Plus in checking our texts. If anyone has done something similar and has some suggestions, or if anyone else would be interested in a Zaire-Swahili spelling checker, let me know.

John Schirle
African Christian Mission
Box 53435
Nairobi, Kenya, East Africa

* * *

Dear KUG,

One day, while doing a routine "housekeeping" favor for my husband (pipping files from an unsorted disk to appropriate new disks, "filing" them there, and then erasing them from the original disk), I accidentally deleted over 100 pages of text—for which we had no backup. Some favor. We stowed the diskette I had erased and mourned the loss (so much gone and with so little effort!)—until I came across, in two back issues of KUGRAM, Dick Grinell's explanation of how to compile XAMN.COM and Scott Gorman's explanation of how to use it to undelete files. I followed the instructions and in no time at all had recovered the lost pages—over a month after the disaster had occurred. Those two issues alone (Vol. 1, Nos. 3 and 5) were more than worth the price of my subscription. Enclosed is my renewal fee. Who knows what lies ahead?

Barbara Leah Harman
Dept. of English, Wellesley College
Wellesley, MA 02181

Dear KUG,

Mr. Hagg pointed out in a recent issue that plastic bags of just the right size for 5-1/4" disks were not available. His recommendation was to cut down larger bags. I have found that Glad sandwich bags are perfect for 5-1/4" disks.

Beware of a catastrophic problem in the use of Perfect Calc with the copy-entry or copy-formula option. I learned the hard way that if you do not carefully mark the beginning of the copy region, PC will copy the entry into every cell of the spreadsheet. That is, it assumes that the Mark-Set is at cell a1. Since you will probably encounter an error condition if you try to apply any formula to every cell, your entire spreadsheet can be filled with the "Error!" message, or with the number you were trying to enter into a single column. The moral: Save the spreadsheet to disk frequently.

Another trick I learned in using PC efficiently was to avoid using certain inefficient calculation commands; they can eat up cpu time quickly. For example, if you need to divide the value in column B by the cumulative sum of the values in column A, you would enter in the nth row of column C the formula $C_n = B_n / \text{sum}(A1:A_n)$. This consumes immeasurable time in constantly recalculating. In this example the inclusion of a column in which the latest entry in A is added to the sum of the previous entries (i.e., a running total) such as $D_n = D_{n-1} + A_n$, can save many minutes of waiting.

Finally, I would like to put in a plug for an outstanding book, Soul of CP/M by Waite and Lafore. Someone who is familiar with BASIC, FORTRAN or other high level languages and who has a little experience using a CP/M machine can pick up a working, practical knowledge of Assembly and CP/M. I can now understand the multitude of poorly-written books on CP/M and 8080/Z80 Assemble language, which unfortunately found their way into my library before this gem.

Ed Harris
7 Pennington Way
Spring Valley, NY 10977

* * *

Dear KUG,

First, I want to compliment you on your newsletter. While small and not "slick," there is not one issue that has not had something extremely helpful. Hopefully, my comments in this letter will be as helpful to others. They are as follows:

While doing some extensive writing on Perfect Writer, I kept coming across a distressing occurrence which may have plagued others. Fortunately, I also found the way to correct it, and discovered in the process an exciting new document-designing tool. I refer to the habit PW sometimes has of readjusting the paragraph in single words, one on top of the other, following an Esc...Q (Re-adjust paragraph command) rather than in 65 character wide lines. By trial and error, I discovered that this was caused by inadvertently depressing Esc...C-0 instead of Esc...C-o following the insertion of data. The latter is the correct command, but it is not unusual to get the "0" confused with the "o" and press the wrong key. When this happens, the argument becomes "0" and the paragraph is readjusted to a zero (0) width rather than the defaulted 65 width.

Unfortunately, as if this were not distressing enough, the further consequences are that the computer freezes up and the 0 width continues throughout the document.

The good news, though, is that the solution is simple—give an Esc...65 command, followed by an Esc...Q command and everything is back to normal. And, of course, if you wish to design a document by using single word documents, you now have that option.

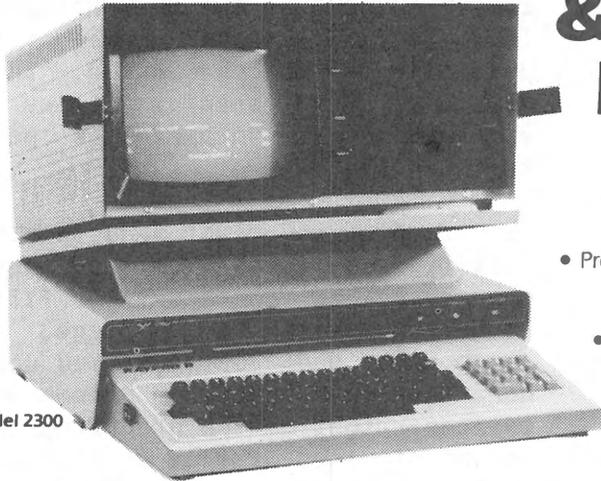
By the way, if any readers know of a good use for designing documents this way, I would be happy to hear from them.

Judge Lewis Kapner
258 Country Club Rd.
Palm Beach, FL 33480

* * *

TIME to RENEW ?

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Qty _____

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Basic Tutor gives you a thorough introduction to programming with Microsoft Basic. The 20 easy lessons will help you develop your programming skills fast and help you tap the full capabilities of your KayPro.

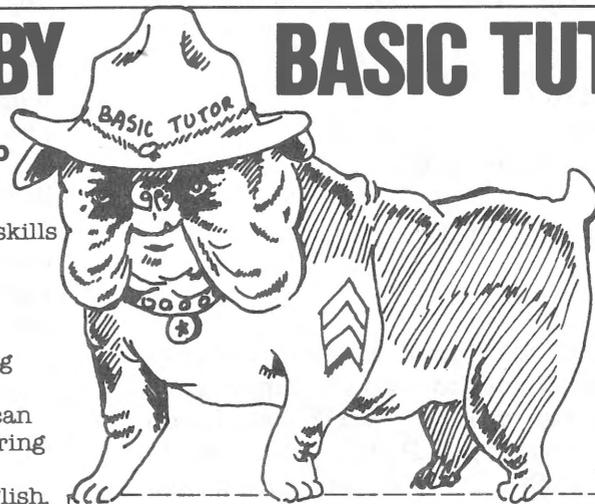
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Dear KUG,

Here is a Perfect Writer tip which I stumbled across while writing a long letter to a friend. After several pages of text, I decided to format the letter to the printer, proof-read it, and finish the letter later. Much to my surprise, Perfect Formatter printed the first page only, and printed this error message on the screen:

```
Internal Error: Out of Memory
error was on line 104 of KENT.MSS
in page space
```

My Perfect Writer manual does make mention in Appendix D of the fact that such a message will occur if the memory devoted to "page space" should become full, but I could find no indication of what that really meant, or how to fix it. After several unsuccessful attempts to get around this problem, I decided to break one exceptionally long paragraph into two parts. Eureka!! PF formatted and printed the entire letter. The solution was to simply ascertain that no paragraph was longer than one physical page, as Perfect Formatter seems incapable of dealing with any block of text larger than that.

Michael T. Patton
Route 1 Box 541
Bonners Ferry, Idaho 83805

* * *

Dear KUG,

I read with interest your recent article on HOMETAX and compared my own experience with a program called MASTERTAX (from Mastermind Computing, P.O. Box 2673, Kokomo, IN 46902). This program is an overlay program for Perfect Calc and worked extremely well in preparing my 1983 taxes. It covers Form 1040, Form 1040X, Schedules A,B,C,D,E,G,X,Y,&Z plus complete tax tables for Form 1040. It cost \$79.95 and earned me a refund in excess of that amount (which I deducted as an expense of preparing the tax). This experience may be of interest to other KUG members.

George Liner
1350 42nd Ave.
Vero Beach, FL 32960

Dear KUG,

I have found that the CP/M context editor (ED) is a useful tool for word processing. In particular, the macro function and absolute line number referencing are capable of performing tedious repetitions.

For example, you might need to create two justified columns from a one-column document. You could set the fill column at half the width of a page, readjust paragraphs and justify. You would then need to move a page-long column of lines to the right of the preceding page-long column of lines, for each finished page with two columns. This would have to be executed one line at a time, which is tedious if done by conventional means.

Let's say we created a half-page width justified file. On PW, you could create this by formatting using a pseudo-printer as described by Peter L. Bloom, Vol. 2, No. 2, p. 22. Here is the only tedious part. We would then edit this file and remove unwanted blank lines and also add blank spaces to any lines which did not extend to the right margin. This is more important between paragraphs, on lines with only one word, and on lines ending with a period. The idea is to create an even right margin of both printing characters and spaces.

Next use ED to create two columns. In the following instructions the up arrow (^) means to hold the control key while typing the next character; however, for the first up arrow encountered only, type the character found above the "6" on the keyboard and do not hold control.

- 1) With the CP/M disk in Drive A and the disk with the prepared text file in Drive B, log onto the B Drive by typing B:<cr>
- 2) Type A:ED FILENAME.EXT
- 3) At the "*" prompt, type 108A-BI^L^ZB <cr>
- 4) At the next prompt type 54MOX54LXBRL^Z-2LF^L^Z-2DBTW <cr>
- 5) At the next prompt type E <cr> to exit ED

continued

This example is set for producing pages of 54 lines. You must determine the number of lines per page on your printer. If this number is n, then substitute 2n for 108 in the first line, and n and n+1 for 54 and 55 in the second line. The output file must be printed verbatim. After printing, delete all processed text (or move it to another file) in the text file. Since this only works one page at a time, it would be useful to create a SUBMIT file (see CP/M Stuff, Vol. 2, No. 1, p. 24) which would repeat this process for the entire document and place the output in one file. It may be necessary to move or delete blocks of text to produce the correct results. For an explanation of ED commands, see the context editor guide, which is the next to last document in the CP/M manual.

Bruce Frank
1282 Rydal Road
Rydal, PA 19046

* * *

Dear KUG,

As a lawyer doing mostly civil trial work, I have found many uses for my Kaypros, one at home and one at the office.

I started with Perfect Writer and still use it extensively for writing trial outlines for jury selection, opening statements, witness examinations, closing argument, etc. When going through a case folder to make witness outlines, it is very handy to use the 7-buffer capability to switch back and forth between outlines for various witnesses.

However, I greatly prefer WordStar for drafting of legal documents because of its on-screen formatting capability.

I would very much like to hear from other lawyers who have found ways to put Kaypros to use in their practices. Also, I would like to find out if there is any type of data-base software that would permit me to enter free-form text notes from my litigation folders and then automatically assemble those notes in proper order for various witnesses, subjects, etc.

Stephen C. Scott
11 North Seventh Street
Columbia, MO 65201

Gentlemen:

I would like to pass on a tip on replicating a formula in PerfectCalc, where the formula contains one or more relative variables from the current spread sheet and a relative variable from a linked spreadsheet.

This problem occurred when I wrote two spreadsheets to compute yields, taxable gains and taxable dividends on my stock investments, in which STOCKD84.PC depends on STOCKE84.PC. I wrote the following formula in row 6 of spreadsheet STOCKD84.PC $s6=stocke84[f6]*4/q6$ and attempted to replicate it in rows 7 through 32 of the same column, with both f6 and q6 as relative variables. PC replicated the formula throughout the column with f6 as a relative variable (correct) and q6 as a nonrelative variable (incorrect). The problem occurs whether the formula is replicated by use of the Copy Region command, ESC-Y, or replicated one entry position at a time with the Copy Entry command, CTRL-Y.

The solution to the problem is to arrange the formula so that the variable from the linked spreadsheet occurs after the variables from the current spreadsheet. The following arrangement can be replicated correctly:

$s6=4/q6*stocke84[f6]$

The correct and incorrect formulas and the result of replicating the same are shown below:

CORRECT

INCORRECT

$4/q6*stocke84[f6]$	$stocke84[f6]*4/q6$
$4/q7*stocke84[f7]$	$stocke84[f7]*4/q6$
$4/q8*stocke84[f8]$	$stocke84[f8]*4/q6$
$4/q9*stocke84[f9]$	$stocke84[f9]*4/q6$
$4/q10*stocke84[f10]$	$stocke84[f10]*4/q6$
$4/q11*stocke84[f11]$	$stocke84[f11]*4/q6$
etc.	

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Dear KUG,

For those of you who are engineers and have not yet purchased a printer, may I suggest the Prowriter 8510A, parallel. It will print Greek letters and other useful symbols of the trade. For instance, the numbers printed while under Greek mode are smaller and somewhat raised off the baseline, which makes them nice to use as the "power" function. In addition, there are the one-quarter and one-half fractions, and the little circle for representing degrees.

The problem you run into when trying to use this feature with Perfect Writer is that PW does not turn off the Greek mode until it sees another printable character, and the blankspace translation in the Greek mode is the "alpha" character. Thus, you tend to end up with one or more unwanted alpha characters at the end of your formula. There is a way to avoid this.

First, choose a character from your keyboard that you never use and are willing to give up. (I chose the accent sign.) Using the translation table in PFCONFIG, make this character generate the "ESCAPE" signal. Now, when you want to enter or exit the Greek mode, use this key to "talk" to your printer. With this one key that you have designated, you can turn on (or off) any printer feature you wish.

There is a price you pay for doing this. Since PW thinks it is printing the two characters you just used (to turn on a feature), it will space your text accordingly and the end result will be that you will not have a perfect block text. This is not a problem if used only for the Greek feature, since the Greek letters have a different width than other text, thus destroying perfect block in any case.

I've tried to keep this MSS brief. If anyone wants a detailed description of the how's and why's, send me a stamped return envelope.

Richard H. Miller
2008 Tammy St.
Sulphur, LA 70663

* * *

Dear KUG,

As an academic, I need to print in letter quality, yet I also want to generate fast draft copies cheaply. The Epson and Fancy Font do this exceedingly well.

Fancy Font, a lifesaver as advertised, is a lot of fun. For serious work it is also reasonably professional. The nice thing about using FF is that I have never formatted a Perfect Writer file. I save the text file (Ctrl-X, Ctrl-S) and then engage FF. There are some simple embedded commands you have to learn. I print out either in Epson fonts or in letter quality finished draft. I create a FF command file when I have multiple files for a manuscript and use the FF interactive parameter to call up that file for printing that job. The Epson clicks away and produces a finished piece that is, to my mind, fabulous. For a poster session at a convention, I print out in a larger font. In romantic letters to my wife, I might print out in mixed fonts and include the very nice "Old English" and some "Script." I can access the Hershey Character database of some 40 more exotic fonts and special characters (Greek, Latin, Russian, Old German, musical notation, mathematical symbols, and graphics characters) or I can design my own fonts or logos. For \$180 from Softcraft, 8726 S. Sepulveda Blvd., Suite 1641, Los Angeles, CA 90045, 213/641-3822, this is a great bargain. Cost of a demo disk (\$10) can be applied toward purchase. FF now is available for printers other than Epson. The package comes on three disks: 1) the printing disk with letter quality fonts called Roman fonts; 2) the fancier fonts, Script, Old English, and Sans Serif, and 3) the Hershey Character database and design-your-own-font programs. One word of caution: It is awkward to combine letter quality with the fancier fonts in one document on the Kaypro II, though you could create a single disk with the called-for fonts.

I would like to swap information with other academics who write, analyze data, maintain filing systems, etc.

Hank Bennett
Dept. of Anesthesiology/UC Davis Med.Ctr.
2315 Stockton Blvd.
Sacramento, CA 95817

Dear KUG,

A suggestion for Kaypro 10 owners who use Perfect Writer for several specialized formats regularly:

Configuring a different format on each of several different user numbers quickly fills up even a hard disk, and certainly takes up users. Try putting the different PF data files (pf.dat) on floppy disks. When you get ready to format or print, log onto the C drive, call your menu from the A drive and your text file from the B drive, and go to it. When pf.com needs the pf.dat file, it will look for it on the logged drive.

Soffits Software
P.O. Box 6658
Arlington, VA 22206

* * *

Dear KUG,

I often have occasion to use a three- or four-line header in the upper right hand corner of each page of lengthy manuscripts. Using the @pageheading command of Perfect Writer was virtually impossible, until I hit upon the simple expedient of using the @include command.

At the beginning of the file, where you would normally put the pageheading command, insert:

```
@pageheading(right="@include{file.mss}")
```

Open a separate, new file using a descriptive filename such as "head.mss." Then design your page heading. I wanted mine at the right hand side of the page, but with the left edges flush. I used the @flushright command and filled in with spaces the short lines so that they equalled the length of the longest line. Automatic page numbering can be accomplished using the @value or the set/ref formats. My file looked something like this:

```
@flushright{NAME OF PROJECT  
Section of Project  
Page=@value{page}}
```

J. Scott Harmon
1792 Valley Side Drive
Frederick, MD 21701

Labels with Newword

A. The first of two files you must create is a document file. Name it MAILING.LAB. Numbers below refer to lines in document.

- 1) .op [to omit page numbers] <cr>
- 2) .df <name of file containing data>. This refers to the other file you will create. For example: .df address.dta<cr>
- 3) .rv <names of variables separated by commas> <cr> For example:
.rvFNAME,LNAME,ADDRESS,APT,CITY,STATE,ZIP
(Note: no punctuation mark at end.)

4) &FNAME& &LNAME& <cr>

5) &ADDRESS& &APT& <cr>

6) &CITY& &STATE& &ZIP& <cr>

7, 8, 9) Three more returns <cr><cr><cr>
Save with Ctrl-kd.

Note that in lines four, five and six the name of each variable is enclosed in ampersands. The item will be inserted as the variable during Merge Print.

B. The second file is a non-document file. Call it ADDRESS.DTA. Start at line one in column one. All the variables for each entry should be written on one line.

Bill,Jones,692 5 Ave.,,Olympia,WA,98503
P.,Smith,455 7 St.,Apt. 3,Tenino,WA,98545

Put the commas in as shown. If a data item is missing, put a double comma there, as in the first example above. Don't place any blank lines in the address.dta file. Enter a carriage return <cr> at the end of each line. Save with Ctrl-kd.

To print mailing labels, Merge Print the document MAILING.LAB. You can't sort these addresses. They are printed in the order in which you typed them. But it's a quick and easy tool.

Phil Garey
6925 4th Way S.E.
Olympia, WA 98503

P W Endnotes

No one has addressed the problem of the form of endnotes for Perfect Writer. As those who edit academic documents have noticed I'm sure, the PW endnotes are not superscripted as required by many academic style sheets. Perhaps my solution will help and inspire other KUGGERS.

1. Make a file called "note.frm" for the basic form of the notes document. The one here is consistent with my text document with exception of the "spread," "scriptpush," and "spacing."

```
@STYLE(desired margins)
@STYLE(footerspacing 2 lines)
@STYLE(headerspacing 1 line)
@STYLE(desired indentation)
@STYLE(justification no)
@STYLE(spread 2 lines)
@PAGEFOOTING()
@SET(page=desired number minus one)*
@PAGEHEADING(right=@VALUEpage)
@CENTER(Notes)
@BEGIN<text>
@+(note number = a new paragraph for each
note entry) and then the actual note
reference.
@END<text>
```

2. Insert notes.frm into your named notes file (I use "notes1.dis" to correspond with chapters).

3. Create and edit your text and notes simultaneously with the split screen. While your notes in text should be abbreviations of the final note, they shouldn't be so short you can't recognize them.

4. Remember to put a @NEWPAGE command at the end of your text, and save both files.

By using the "text" command, you can have the note numbers superscripted, lengthy notes, quotations, double-spacing (if desired) and generally more flexibility than the "enumerate" command.

*Thanx Mary Matthews (Vol. 2, #1) for the "SET" tip. After many hours of struggling I discovered that the SET command was separate from the VALUE command. The manual is very confusing on this point.

Debbie Wood
5445 W. Iowa St.
Chicago, IL 60651

SBASIC Files

There's no End Of File routine. What do I do? The files were set up as random access, but they were also accessed as sequential. My files were not 128 bytes long, which is the optimum length. The system did not keep track of the number of records written, it kept track of the number of 128 bytes that were written. Every time I wanted to do a search I had to do a sequential read to count the total number of records on the file.

The solution came from my IBM mainframe experience: Write a header and trailer record. As I add 1 to a file I always add 1 to a counter. In the header record I have a field that keeps track of the total # of records on that file and at the completion of my update I move the counter to that field in the header record. After I add a record, which is written over the current trailer record, I write a new trailer record. The trailer record is the last record written and will always identify EOF. Of course following this method a sort will have to be run against the file after the updates have been completed. There is no need to redefine these two records if you can place values in existing fields that will identify the records as header and trailer. If redefinition is necessary, just base extra fields at locations within the file and only access these fields when you know you are reading a header or trailer record.

This little process allows you to write records any size and have the freedom to access using either method. This problem caused many a nightmare, and I hope you benefit from my follies. Anybody have a good sort they want to share? Mine is a time hog (too much I/O).

Little Bita Software, Inc.
Thomas R. Cooper
20 Chestnut Street
Mahwah, NJ 07430

ALL **KAYPROS** ARE NOT CREATED EQUAL

KAYPRO 400/800KB UPGRADE KIT-

The KAYPRO II uses the Tandon 100-1 single sided double density diskette drives (40 tracks 48 TPI). Each diskette is capable of storing 200KB per drive. The Legacy 800KB upgrade kit expands the storage capability of the KAYPRO II to 800KB per drive utilizing the TEAC 55F-double sided quad density diskette drives (80 tracks 96 TPI). The kit may be purchased with or without the drives. Once installed, the KAYPLUS 800 will store four times the amount of data as the standard KAYPRO II. Data integrity is maintained, as the KAYPLUS 800 will still read and write the standard KAYPRO II format (as well as the KAYPLUS 400 format). The kit comes complete with an enhanced format program that asks if you wish to format the disk as (S)ingle or (D)ouble sided as well as prompting the user to determine if the format is for 40 or 80 tracks. Installation of the kit requires a simple EPROM change, the addition of a 14 pin socket (with appropriate integrated circuit), cutting of two circuit traces, the attachment of 6 wires and the replacement of the diskette drives. The use of this enhancement is predicated on replacement of the standard drives with only the TEAC drives. No TEAC compatible drives will suffice. A speed increase of 12-18% could be expected with the installation of this kit, as the track access time is greatly enhanced over the standard drives. Also, the read/write heads of the TEAC drives only come into contact with the surface of the diskette when transfer of data occurs, at all other times, the heads lift off the surface of the diskette.

*118.

CPU HOP UP KIT-The KAYPRO II utilizes the Zilog Z80 micro processor. The internal calculation speed of this processor is 2.5 MHZ (megahertz). In that the entire KAYPRO computer system is designed around the Z80 CPU (and associated chip set), to upgrade the computer to execute at a faster rate would require a major overhaul of the mainboard and the replacement of numerous components. Legacy offers an alternative of the 2.5 MHZ clock speed. The CPU hop up kit doubles the calculation speed of the Z80 to 5 MHZ with the use of the Zilog Z80B micro processor. All calculations performed will be done at a 5 MHZ rate and any I/O performed will be done at the normal (KAYPRO designed) rate of 2.5 MHZ (during which time, the CPU is put to sleep in a wait state). The effective increase is about 40%. Installation is completed within minutes. One simply removes the old Z80 CPU and one supportive chip, plug in our hop up kit and place one of the chips removed back onto the Legacy board.

*118.

*Also available for new 84 board runs at 4/8 MHZ.

*326.

REAL TIME CLOCK-This kit is most unique for those applications that require the data and/or time stamping of data on the KAYPRO computer systems. The Legacy real-time clock allows for setting and/or getting the date and time to the second. A nicad battery is used for power backup (to insure failsafe operation) and is charged while you use your KAYPRO. The kit is installed by simply removing the Z80 PIO (parallel I/O chip), plugging in the real-time clock board and replacing the PIO chip back onto the Legacy piggy back board. Included in this kit are two different COM files (complete with commented ASM source files) to set or get the date and time as well as MBASIC and assembly routines so you can access the clock with your own software.

KAYPRO 2 & 4 *118

KAYPRO 10 *138

KAYPRO 2/84 *138

8088 16 BIT CO-PROCESSOR-The co-processor uses the Intel 8088 micro-processor with up to 256K of RAM thereby allowing IBM compatibility to nearly any Z80 CP/M micro-computer system. The product gets its name from the co-processor relationship between the 8088 and the host computer. The processor communicates in an interrupt driven mode. This method does not take up much of either processors time in the back and forth communication cycle. The co-processor runs faster than the IBM-PC because its clock speed is faster (not being restricted by the PC bus transfer rate). The communication of the computers is done through a specialized port provided on a daughter board included with the kit. Power requirements are small at about 750 milliamps of + volts. The product is delivered with both MS-DOS and CP/M 86 operating systems, equipped with 128k RAM and is field upgradable to 256k as an optional feature. When the computer system is being used as an 8 bit Z80 based machine the memory of the 8088 co-processor board may be used as a semiconductor disk (RAM disk). Programs can be run, compiled and copied to or from the RAM disk using PIP.

FROM *472. to *632.

EXTERNAL DRIVES C&D-This product allows the addition of two more drives to the KAYPRO computer system. These additional drives (designated C&D) must be of the same recording type and density as the existing drives (A&B). KAYPRO II computers require SSDD (single sided, double density) drives. KAYPRO 4 units use DSDD (double sided, double density). The Legacy KAYPLUS 400/800 upgrades allow 4 half height drives mounted internal to the chassis. This kit consists of a single printed circuit board (drive multiplexer), BIOS EPROM, cables and illustrated instructions.

*118

1 PAIR TANDON 100-1 DISK DRIVES *100.

MULTI-FONTS VIDEO GRAPHICS

BOARD-The standard KAYPRO II/4 computer system does not have any graphic attributes. This field installable hardware peripheral utilizes the standard KII/4 CRT screen and is designed around the powerful NEC 7220 graphic display controller. The graphics option comes complete with firmware for drawing line vectors, arcs, circles, rectangles and point markers as well as downline loadable character sets. Other standard features include routines for filling rectangles with a pattern, blanking the display either dark or light and complementing all or portions of the display. The multi-fonts board also has panning (ability to pinpoint any section of the screen) and zooming (1 to 16 times the normal size).

*612.

DIAGNOSTIC DISKETTE-An array of programs to assist in the diagnosis of hardware related problems. Programs are provided for the complete testing of Memory, Serial port & related components, Parallel port output, Disk drive read operation. Additional programs are provided for assisting in the alignment of diskette drives as well as screen adjustment.

*41.

EXTERNAL VIDEO MONITOR

ADAPTER-Our video monitor adapter allows the attachment of from 1 to 16 external monitors (attached in series) to a KAYPRO computer system. The kits installation requires the insertion of a composite video jack through the cooling vents in the rear of the cabinet. The video adapter comes complete with a horizontal sync alignment potentiometer (in case the monitor does not have a horizontal adjustment mechanism).

*88.

EPROM UPGRADE-Upgrades of both EPROMs (programmable read only memory) as well as the Character generation PROM have been greatly enhanced. This upgrade removes most of the BIOS errors thereby reducing the possibilities of BDOS errors. The character generation ROM has a new character set with enhanced character definition.

*41.

NEW FROM LEGACY

- 8086 CO-PROCESSOR
- 68000 CO-PROCESSOR
- EXTERNAL 10 MB HARD DISK
- EXTERNAL 5MB REMOVABLE HARD DISK
- DISKETTE ALIGNMENT SOFTWARE

SURGE PROTECTORS

SS120/2 - Duplex receptical model with standard three prong plug. Simply plug this Panamax surge suppressor into a standard 120 volt wall outlet and plug the equipment you want protected into it.

*89.

SS120/4LCS - Four receptical model, with convenient, illuminated, master ON/OFF switch, and 6 ft. line cord with standard three prong plug. This model provides you with the opportunity to protect multiple, separate computers and peripherals, with just one unit.

*107.

SS120/16LCS - Six receptical model, with convenient, illuminated, master ON/OFF switch, and 6 ft. line cord with standard three prong plug. Simply plug this Panamax surge suppressor into a standard 120 volt outlet and plug the equipment to be protected into it. This model provides you with the opportunity to protect word processing centers and entire computer systems, all with just this one unit.

*119.

TALISMAN - is a terminal translation program that enables your computer to function the same as any terminal. Fundamentally, Talisman performs two different functions. First, it lets you re-map your keyboard into any configuration. Therefore, a single keystroke can produce the effect of several keystrokes pressed in sequence (from two keystrokes to 256). You can pre-program special keyboard overlays and save them on disk, using the keyboard overlay editor; or you can perform such programming "ON THE FLY" while you're actually running an application (word processor, spreadsheet, etc.) without disturbing the work in progress. Next, Talisman allows the screen mapping of virtually any terminal for emulation purposes. For example, you may wish to select one of the over 55 different terminals already pre-defined or you may wish to utilize the built-in terminal identifier to create your own terminal definitions. Emulation is still active during the MSDOS/CPM86 simulation modes if you have an 8088 installed in your system.

*125.

PRINTER BUFFER The Buffer is an internal auxiliary device designed to work with almost any KAYPRO Computer and Centronics-compatible parallel printer.

Most computers are able to send data to the printer at very high speeds—usually much faster than it can be printed. The Buffer receives print data sent at a high speed; holds it if necessary; then sends it to the printer at the printer's correct speed. Once a document to be printed has been sent to the Buffer, you and your computer are free to go back to work.

Besides saving valuable computer time, the Buffer has advanced features which allow you to continue sending new files to the Buffer while copies of another document are being printed.

The Buffer is easy to install, simple to operate, and offers a wide range of flexibility through the use of its advanced features.

*249.

The **PROGRAMMER/4+** is an affordable computer-controlled EPROM programmer easy for anyone to use. Using an ordinary modem cable, it plugs onto the RS-232 (serial) port of the Kaypro (or other CP/M systems).

Menu-driven software makes it simple to read and program EPROMs to and from memory or disk. An EPROM's contents can be saved to disk and that disk file modified for programming custom EPROMs. Data can be displayed on the screen in hex and ASCII. EPROMs may be tested for erasure.

A direct interface menu is included for more experienced users. Fully commented source code is also on the disk. The detailed owner's manual includes complete schematics.

The Programmer/4+ reads and programs the five most common types of EPROMs: 2716 (2K), 2732 (4K), 2732A, 2764 (8K), and 27128 (16K). **\$199.**

SCREEN SAVER-Many people leave their computers on all day or all night. Although your Kaypro will never get tired, displaying a page of text, spreadsheet, etc, for long periods of time it accelerates screen damage. The characters you see on the screen are formed by streams of electrons striking the phosphor coating on the inside of the picture tube, causing individual dots to glow. Bombarding the same dots for long periods of time will eventually wear out the phosphor at those points, giving you a burned-out striped-looking screen such as you might see on an old TV set. This easy to install (no soldering) upgrade automatically dims your Kaypro's screen after three minutes without keyboard input. Touching any key immediately restores the display. An adjustment on the screen saver allows you to choose the degree of dimness. **\$138.**

BUILT-IN 0-300/1200 BAUD MODEM-This kit provides modulator, demodulator, filters, phone line connection, and TTL level interface to the KAYPRO computer system. It measures 4" by 5" and is easily incorporated into the computer system by mounting beneath the main board. The modem connects directly to the power supply of the KAYPRO thereby eliminating the need for any external power source. The connection to the public telephone network is via a standard RJ11 phone jack. The LEGACY modem is Hayes smart-modem compatible (Bell 103/212A). Auto-dial, auto-answer with automatic line speed detection (0-300/1200 baud) are all standard features.

FROM \$429. TO \$449.

8 INCH DRIVE ADAPTOR-For those users who desire the ability of down-line loading software from a standard 8 inch IBM formatted diskette. This unit attaches to the drive multiplexer and enables the attachment of a single 8 inch floppy diskette drive to a KAYPRO II/4 as drive C. Once enabled (software controlled) the user may PIP (or transfer using virtually any CP/M software) data between the 8 inch drive "C" and the normal 5 1/4 drives "A or B" **\$285.**

About Legacy's Upgrade Kits

The LEGACY upgrade kits are not really kits in the proper sense of the word, (you don't get a bag of chips & resistors with some hand scribbled notes on how to build the unit). All of these field installable products are fully tested, professionally manufactured, printed circuit modules designed with exacting precision in accordance with the computer manufacturers' specifications. None of the kits require any drilling or modification to the exterior of the computer, as each product is housed within the computer's cabinet. None of the kits (or any kits in the combination) require the replacement of the standard power supply. Each kit is provided with a complete structured set of illustrated instructions detailing every procedure to be performed.

	KAYPRO II	KAYPRO 4	KAYPRO 10	2/84 BOARD	4/84 BOARD	10/84 BOARD	ROBIE	Future Technology
400KB UPGRADE KIT	●	●						
800KB UPGRADE KIT	●	●						
CPU HOP UP KIT (5MHZ)	●	●						
CPU HOP UP KIT (8MHZ)				●	●	●	●	
REAL-TIME CLOCK	●	●	●	●	●	●	●	
MULTI-FONTS GRAPHICS	●	●	●	●	●	●	●	
EXTERNAL VIDEO ADAPTOR	●	●	●	●	●	●	●	
SCREEN SAVER	●	●	●	●	●	●	●	
DRIVES C&D OPTION	●							
8088 CO-PROCESSOR	●	●	●	●	●	●	●	
1200 BAUD INTERNAL MODEM	●	●	●	●	●	●	●	
EPROM PROGRAMMER	●	●	●	●	●	●	●	
8" DRIVE ADAPTOR				●	●			
FANCY FONT TYPE SETTING	●	●	●	●	●	●	●	
DIAGNOSTIC DISKETTE	●	●	●	●	●	●	●	
EPROM UPGRADE KIT	●							
PADDED CARRYING CASE	●	●	●	●	●	●	●	
CANVAS DUST COVER	●	●	●	●	●	●	●	

FANCY FONT Say good-bye to "correspondence quality" and hello to *Fancy Font's* high-resolution, proportionally spaced, letter quality. The range of available fonts and the flexibility of modifying or creating new characters and fonts far exceeds that of the daisy wheel printers (no need to change daisy wheels or type balls!). All this on low cost printers such as Epson MX-80, RX-80 or FX-80.

Fancy Font extends the capability and usefulness of your dot matrix printer. You are no longer limited to a fixed set of characters. Instead you can use over 3000 characters in the *Fancy Font* package and furthermore, can create any characters you like. With *Fancy Font*, you can use your favorite editor or word processing package to create a file to be printed. Include as few or

as many formatting directives as you desire. Then use our printing program to print your file.

KAYPRO PADDED CARRYING CASE \$180 - This product is a fully padded carrying case and comes in two models (with or without a shoulder strap). Its construction is of high grade canvas (backpack type) material and has a zipper pocket for transporting paper, cable and manuals **\$55.**

LEGACY ORDER FORM

NAME _____
 ADDRESS _____
 CITY _____ STATE _____ ZIP _____
 PHONE () _____

KAYPRO II KAYPRO 4 KAYPRO 10 2/84 BOARD
 4/84 BOARD 10/84 BOARD ROBIE

CHECK MONEY ORDER COD
 VISA MASTERCARD AMEX

Card Number _____ Exp _____

California Residents Add Sales Tax
 Shipping and Handling Charge \$4.50

Signature _____

QUANTITY DESCRIPTION

QUANTITY	DESCRIPTION
_____	_____
_____	_____
_____	_____

LEGACY
 Computer Systems

SENT TO: Legacy Computer Systems
 26356 Carmel Rancho Lane,
 Carmel, CA 93923
 (408) 625-6562

DEALER INQUIRIES ARE INVITED

Math with P F

One of the shortcomings of Perfect Filer is that it does no mathematical computations. One way to overcome this is by using this simple program:

First, format a list entitled "Numeric Output" or whatever you choose. You need only concern yourself with the MEMBER FORMAT. Under Field Number 1, name a logical field in which you intend to enter numbers on your screen display. If you are not quite to the point of creating your own screens, select an existing field such as "comment1" in the Individual Member Data Base. Under Field 2, choose a <string> and enter a comma.

Your "Display List Format" should now look like this:

- I. LIST HEADING
- II. PAGE FORMAT
- III. MEMBER FORMAT

Field Number 1: <Logical Field> comment1

Field Number 2: <string> ","

- IV. SORT KEYS

Now enter your numbers on the Comment 1 line of each of your Individual Member screen displays. Next go back to the main menu and tell Filer to "Generate List/Reports." When Filer gives you the menu asking where to direct the output, check "File." Filer will then ask you to name the output file. You may call this "B:NUMERIC.LST" or any name you choose.

Filer will then go through your records, take the numbers you have entered on the Comment 1 line, and write them to the disk in drive B under the name "B:NUMERIC.LST" and also on the screen.

Leave Filer and load Perfect Writer. When you call up the file "B:NUMERIC.LST," you should have a string of numbers that looks like this:

22.19,89.43,13,33.01,0.98,22,...

A long list of numbers should go across the screen without a carriage return. If you have two commas instead of one separating the numbers, it means that in some of your Comment 1 fields, Filer found no number and so just entered a comma.

It is necessary for you to remove these extra commas because they each count as an entry and will give you a false average and a false total of entries when you do math with the numbers in the file. (An easy way to accomplish this is with a Search and Replace command.) When you have all of the numbers separated by only one comma (and no spaces), save the file.

Now you are ready to use these numbers. Leave Perfect Writer, load Microsoft Basic, and enter this program:

```
10 REM: MATH WITH NUMBERS FROM DISK FILE
20 B=0
30 N=0
40 PRINT CHR$(26)
50 PRINT "NAME OF FILE TO USE:";:INPUT I$
60 PRINT CHR$(26)
70 OPEN "I",1,I$
80 IF EOF (1) THEN 130
90 INPUT#1,A
100 B=B+A
110 N=N+1
120 GOTO 80
130 PRINT "NUMBER OF ENTRIES IN FILE: ";N
140 PRINT
150 PRINT "NUMERIC GRAND TOTAL: ";B
160 T=B/N
170 PRINT
180 PRINT "AVERAGE VALUE: ";T
190 PRINT:PRINT
200 CLOSE
210 END
```

When you run the program, give "B:NUMERIC.LST" when asked for a file name. The program will then print out the number of entries in the file, the numeric total, and the average value. You can alter this program to use the numbers in your file in any way you please. I know these extra steps should not be necessary in good data base software, but if you absolutely have to have Filer do math, here's a way.

R.J. Wilson
Wilson Data Management Co.
985 Corona St., Suite 104
Denver, CO 80218

* * *

TIME to RENEW ?

Envelopes with Wordstar

Anyone who's written letters with Wordstar knows that addressing envelopes can be a bother. Formatting each envelope on-screen takes time. I've worked out a system that automates the procedure as much as WS allows.

1. Type the addresses normally, with a carriage return at the end of each line, just as you would if you were typing directly on the envelope. But put TWO carriage returns before each address, including the first. Those two carriage returns are important. We'll use Search-and-replace to replace them with everything else we need: the return address, the blank lines between return address and mailing address, and the ".pa" indication after each mailing address that tells the printer to print what follows on a new envelope.

2. Set the left margin at a place that allows the addresses to print wherever you'd like them to appear on the envelope. (If you leave them where they are, they'll be printed at the left edge of the envelope.) A setting of 50 puts them in the middle of the envelope; experiment to see which setting you prefer. Use ^KR to return the cursor to the top of the address list; then type ^QQB. Each line you've typed will jump to the new left margin you've set. Important: reset the right margin, too. Extend it to 80 or so; otherwise WS will divide some of the lines into two parts when it moves them.

3. Reset the margins to their normal settings (left margin at 1, right margin at 65). Use ^QA to replace each double carriage return with your return address and the .pa dot command. You can't do that in one step because Wordstar's Search-and-replace procedure accepts only short strings of characters. You can type just the first line of your return address now. You have to represent the other lines by something you'll replace later on. I use the symbols the shift key gets from the number keys—!,@,#,\$, and so on—because they're arranged in an order I'm not likely to forget.

Example:

"Yourname/yourstreet/yourtown" becomes "yourname/!/@" . So you type ^QA, and answer WS's questions as follows (note that ^N means "carriage return"):

FIND? ^N^N

REPLACE WITH? ^N.pa^Nyourname^N!^N@^N

OPTIONS? ng

Hit return, and in a few moments you'll have .pa dot commands to mark the end of each envelope, and the first line of your return address in position at the start of each one.

4. Now you'll replace the symbols with the rest of your return address—AND with the blank space you need between the return address and mailing address. I keep them about 12 lines apart. Type ^QA again, and answer the questions as follows:

FIND? !

REPLACE WITH? yourstreet

OPTIONS? ng

Repeat with each line of your address. When you come to the last line, answer as follows:

FIND? @

REPLACE WITH? yourtown^N...(12 ^N's)

OPTIONS? ng

(Note: that's 12 ^N's; one for each blank line between your return address and the mailing address. After you do these last ^QA's, your envelopes are ready to print—except for two last steps.

5. Nothing's perfect. You've got an extra .pa at the start of the document. Delete it. And you need dot commands to make sure the envelopes are printed correctly. Try:

.mt 0

.po 0

That way the return address starts right at the top of the envelope.

If you're using personalized or company envelopes you will not need a return address. You need to do ^QA only once. Find "^N^N" and replace it with "^N.pa^N...(15 ^N's)." You need more when your computer's not printing out a return address, because you've got more blank lines between the top of the envelope and the mailing address.

Gregory Sandow
7 Cornelia Street
New York, NY 10014

National KUG Disks

by Sergio Weber

DISK 123 (Utilities) WP & PC

BRKEVN: A break even analysis spreadsheet for Perfect Calc users. CAPBUD: A capital budgeting PC spreadsheet. CASHBUD: A monthly worksheet and cash budget PC spreadsheet. COMNSTOC: A stock dividend PC spreadsheet. CSTOFCAP: A cost of not taking a trade discount PC spreadsheet. DEPREC: An asset depreciation PC spreadsheet. EXPNPV: A calculation of expected net present value PC spreadsheet. FILEMENU: A menu program for Perfect Filer, similar to the menu of Perfect Writer. FUTURES: A futures market tracking system PC spreadsheet. INTEREST: An account interest calculator PC spreadsheet for various compounding rates. INVCOST: A cost associated with inventory decisions PC spreadsheet. INVSTREC: A record of capital gains and losses PC spreadsheet. MAGE: An emergency utility that recovers WORDSTAR files from computer memory under most circumstances short of a complete power loss. MLTDISC: A multiple discriminant analysis PC spreadsheet. For distinguishing between two series of numbers on the basis of their trends. NEW-SWP: A program which allows you to create any size Perfect Writer SWAP file you wish. See NEW-SWP.DOC for more information. ORDER001: An invoice orderform PC spreadsheet. ORDERFM: A blank invoice orderform (like ORDER001). PCCOPY: An MBASIC program which converts a Perfect Calc data file into a file with either all the formulas removed, leaving only the numbers, or leaving the formulas and removing the numbers. POPUEXPL: A PC spreadsheet simulation of a population explosion. RADIODEC: A PC spreadsheet of radioactive decay. RATIO: A ratio analysis PC spreadsheet. READ-SWP: An SBASIC program which turns your unreadable Perfect Writer PW.SWP file into a text file which you can edit in the event of an "accident." SPREADS: A monthly cost figuring PC spreadsheet. STKLIST: A numbered list of inventory stock items PC spreadsheet with room to make your own list of items. TBILL: A PC spreadsheet program to evaluate values of treasury bills. WSPATCH: A listing of labels and patch addresses for WORDSTAR.

DISK 124 (UTILITIES 3)

BISHOW11: Allows you to scroll forward and backwards through a text file page by page. CHARTEST: Gives you the decimal value of any key on the keyboard you press. CLICK: Turns the keyboard on or off until the next cold boot. COMPARE: Allows you to compare two files, byte by byte on one disk or even different drives. DLABEL: A label generator for disks. Makes BEAUTIFUL single labels for ALL your disks. Includes information such as format date, write date, working or backup, disk name, and remarks. DRIVER: Creates a menu of all .COM files on your disk, and even in other drives. NSWP199H: Utility program for maintaining file directories, transferring files between user areas on the same drive, and transferring files between drives. PRINT: Sends any text file you specify to the printer. Even makes page breaks and numbers the pages and types the filename at the top of each page. PRINTSQ: Sends any text file or group of text files you specify to the printer. Accepts wild cards (e.g. *.DOC or *.MSS). QWIKKEY: An "INTELLIGENT-KEY" like program which allows you to redefine any key(s) to be replaced by a character string of your choosing. SCREEN: Displays all screen characters and their decimal ASCII codes in a nice table. Covers ASCII codes 0 to 255. SWAP: Temporarily swaps the CP/M's CONSOLE and LST outputs so that programs which normally cannot output to the list device may be made to do so. UN: Enables the unprotecting of MBASIC programs. UNDEL: An undelete program that will work on a hard disk! UNERA: An improvement on the original "UNERASE" program. Accepts wild cards (e.g. A>unera *.DOC, or A>unera *.*)! WCOUNT: Gives a breakdown of the number of words and lines in a text file. XDIR: WDIR: Directory programs. XTYPE: A wild card "TYPE" program. Just like the CP/M "TYPE" command, but you can specify any group of files to be typed on the console or the printer. (e.g. A>XTYPE *.DOC), and all your document files will scroll one after another! Saves you from the tiring "TYPE" command.

* * *

Printer Configs from KUG

For the past months KUG has been supplying printer configurations to members who send us a self addressed stamped envelope. We receive an average of 30 requests a week. Most of these are answered in about two weeks, that is, if we have the one requested.

Now that Wordstar has been bundled with the Kaypro, even more configs are being requested. Also, the number of different printers that are available has more than doubled.

Therefore, we can offer only the configs we have on file in the following manner:

If you will send us a self-addressed stamped envelope, we will send you an up-to-date list of available printer configurations (listed for either PW or WS or both).

If your printer is listed, just send us your ID# and one dollar (to cover printing and mailing) to KUG CONFIG, Box 100, Malverne, NY 11565, and we will send your config by return mail.

We believe this is the only way we can serve our members and stop the requests for printer configs we do not have. If you can think of a better way, please let us know.

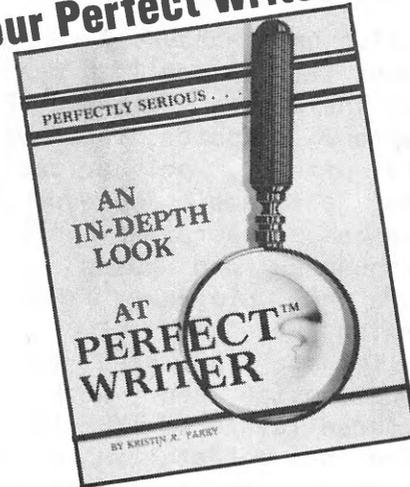
NOTICE

It's time for some KUGGERS to renew their membership. If your KUGRAM label has RENEW printed on it, your membership will expire after the next issue.

As of December, 1983, the membership dues will be \$15.00 (U.S.A.). However, all members who renew before that date will still be able to use the old dues rate of \$12.00 (U.S.A.).

When you send in your renewal, be sure to include your name, address and KUG I.D. number with your check.

Perfectly Serious Answers To Your Perfect Writer Questions



Over
190 Pages;
100
Illustrations
\$19.95

- How to put foreign characters or scientific symbols in your document.
- How to put an accent mark over a character.
- How to subdivide large manuscript files for ease of handling.
- How to control chapter, appendix and section numbers.
- How to number your preface or table of contents with roman numerals.
- How to stretch endspace for your table of contents and references.
- How to automate your figure or table numbering.
- How to eliminate difficulty with footnote positioning.

All of these questions and scores of others are now answered to capably extend "Perfect Writer" to new horizons.

HERE ARE SOME REVIEWS OF "Perfectly Serious"

Anne Wayman
of Profiles Magazine

"... if you want to push Perfect Writer to its limits, this is probably what you've been looking for.

"Farry... takes the view that Perfect Writer is almost a programming language, and proceeds not only to tell you how to make it perform, but why it performs the way it does." (Reprinted from the May/June issue of Profiles, by permission.)

"Perfectly Serious is the book for those of you who insist on a certain amount of finesse from Perfect Writer. Kristin Farry has put together an extremely helpful book aimed at getting the most out of Perfect Writer." (Reprinted from the June 1984 issue of BAKUP News, by permission.)

Nancy Mulvany of BAKUP (Bay Area Kaypro Users and Programmers.)

Perfectly Serious: An In-depth Look At Perfect Writer™ by Kristin A. Farry is an indispensable, applications-oriented supplement to your Perfect Writer User's Manual. Over 190 pages of informative text and real-life time saving examples help the Perfect Writer user through day-to-day word processing hassles.

Send \$19.95 plus shipping and handling:
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Ohio residents add 5½% Sales Tax

WIN-COM PUBLICATIONS

P.O. Box 106

Waynesville, Ohio 45068

Perfect Writer™ is a trademark of Perfect Software, Inc.

Kaypro News

Kaypro Corporation has announced a new business product for the small to medium sized business. The Kaypro Business Pak includes a Kaypro 2X computer, the Kaypro letter quality printer, printer cable, word processing software, spreadsheet programs, data bases, operating systems, programming languages, and games. Also included is a new program, TYPE-IT, which, according to Kaypro, "will completely eliminate the need for a typewriter. The novice can work up through the three levels of TYPE-IT and be ready to jump into Wordstar in a few days." The program has an electronic memory typewriter mode and a more advanced eleven line memory-writer capability.

On July 18, the Federal Communications Commission in Washington, D.C., found the KAYPRO 2/84, KAYPRO 2X, and KAYPRO 4/84 to be in compliance with Class B limits, Part 15 of FCC rules. This represents a complete approval and certification of these models.

The approval certificate contains the following note:

"THE USE OF A NON-SHIELDED INTERFACE CABLE WITH THE REFERENCED DEVICE IS PROHIBITED."

This means that the end-user could cause the Kaypro computer to interfere with other electronic devices if he fails to use shielded cables with his peripherals.

* *

Responding to requests from Kaypro headquarters and from the field, Drivetec (manufacturer of the Robie disk drives) has approved four head-cleaning disks for use in their drives. Drivetec states:

"The following cleaning disks have been evaluated and are recommended for usage on the Drivetec disk drive when head cleaning is deemed necessary:

- 1) Scotch #7440
- 2) Head Computer Products
- 3) Perfect Data
- 4) Floppiclene"

Stylish Footnotes

by Kristin A. Farry

Would you like to double-space your document's footnotes or endnotes? Or "undent" them? Even though it's not mentioned in the user's manual, Perfect Writer does allow you some control over the shape and spacing of your footnotes.

The secret is simple: place a @STYLE command inside the brackets enclosing the text of a footnote, and that style command will affect that footnote and all the following footnotes. For example, to double-space your footnotes, use

```
@FOOT[@STYLE(spacing 2 lines) <footnote  
text>]
```

for your first footnote. This style command will affect only your footnotes, not the rest of your document text.

There is a catch to this, however — some style commands (such as margin change or linewidth commands) do not take effect until the next linebreak following the command. This means that the first line of the footnote containing a margin change command will not be affected by the command. This is a nuisance if you must offset the margins of your footnotes from those of your text — the first line of the footnote containing the margin change command will still follow the old margins! In spite of this, margin change commands have their uses in styling footnotes — I use them to "undent" my notes. If the default leftmargin is 10 characters, the command @STYLE(leftmargin 14 chars) command at the beginning of each note and @STYLE(leftmargin 10 chars) at the end of each note will give you nice "levelhung" note listings.

Try it!

Environment commands such as @UNDENT may be placed inside footnotes, but Perfect Writer inserts a linebreak at the beginning of each new environment, which leaves the footnote number on a line by itself.

(Ed. note: Kristin Farry is the author of Perfectly Serious: An In-Depth Look at Perfect Writer).

Two for Review

by Frank Fallon

Cooling Fan

Some older Kaypro II's had a heat problem, and the solution was to change to a Z80B CPU chip and perhaps get a faster monitor ROM. Fay-Soft of Westlake Village, CA has a quiet internal solution to the problem, the "K-Cool Fan." The fan is installed on the rear chassis near the reset button.

While the \$49.95 price to users groups may seem a bit steep, the kit is very complete and the instructions are almost perfect. You will need a regular screwdriver in addition to the phillips head they mention. There is no soldering and no drilling. A pair of pliers, as noted in the instructions, will be needed to clamp special solderless connectors to the power switch. The job requires no special electronic skills, and the directions are well thought out. Also, the project gives you a chance to view the soul of the machine.

Once installed the fan almost silently removes 33 CFM of air from the Kaypro II using under 10 watts of power. In all, it is a simple, safe solution.

Hi-Rise Stand

KUGGERS who want a printer and monitor stand for their Kaypro should take a look at the Hi-Rise Computer Stand, \$49.95 from Enercon, 1420 North Front Street, Mankato, MN 56001. The sturdy three foot high wood stand goes together relatively easily and holds monitor and printer, plus paper. The keyboard slides in under the shelf holding the monitor.

A picture of the completed stand shows you everything you need to know about assembly. Wood screws hold the entire stand in place. It takes a bit of muscle to get the screws in there. Wearing a glove and using a large head screw driver are good ideas. Wooden caps plug the screw holes and make for a neat stand. The finished, rock solid Hi-Rise can be stained.

* * *

Book Review

Meilach, Dona Z. The Perfect Guide to Perfect Writer. Indianapolis, Howard W. Sams, 1984. \$16.95.

The Perfect Guide to Perfect Writer takes the user smoothly and easily from the formatting of blank discs through the design and printing of long documents. The author writes well, assumes no previous knowledge on the reader's part, (a big plus for beginners), and includes many illustrations. Start at the beginning, progress easily through page 52, and you will have typed and printed your first letter. This book combines the simplicity needed by someone new to word processing with comprehensive coverage of the advanced capabilities of Perfect Writer. It includes use of Perfect Speller, and the configuration programs for the terminal and printer.

The first section of the appendices is as clear a description of how to use CP/M as we've seen anywhere, and it's done in only ten pages. It is typical of the lucidity of the author's writing.

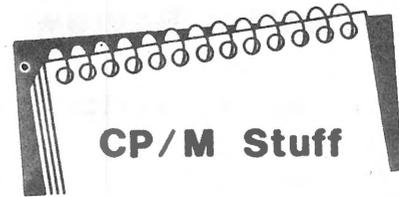
There are a few typographical errors, but those that might cause confusion are far enough into the book that anyone running into them will by then know enough to notice and correct them. One significant item, however, is the author's treatment of the ^X^S "save" command. Contrary to what she indicates, this command does, indeed, save the edited work to the file on disc. Unless a new file is wanted, it is not necessary to use ^X^W and then have to type in a file name. Most of the time, ^X^S will suffice quite nicely. Heed the Perfect Writer manual on this.

Because specific items will be looked for often, the index should be more detailed and complete. We were not able to find some common terms, like "margins."

The book is physically attractive, with an excellent font and lots of white space on every page. Because it is suitable for the range of beginner to advanced "perfect writer," and because its textual and physical qualities are so fine, this is a desirable book to have.

Roger & Karen Lamson

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
- #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

* New contributions

KUG Disks are in Kaypro II format, but they can be read on and PIPed from any other Kaypro Computer. Directions are included with each disk.

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

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.

If you would like a list of descriptions of the KUG Library disks, send a self addressed stamped envelope to KUG DISKS at the same address as above.

With your CP/M disk in drive A, type DIR to see if STAT.COM is there. If it is, at the A> type STAT VAL:. My, oh my ... what does all that mean? Actually what you are looking at are nine lines of the different ways you can make STAT.COM work. Lines 1, 2 and 4 were discussed in previous issues. This time we will devote our attention to the others.

On line 3, STAT DSK: will give you the disk characteristics of the active drive (A). If you type STAT B:DSK:, the same will refer to the B: drive. OK?

OK ... Now to the good stuff. The last four lines show us how we can assign different things to different things. (Sounds like PIP.COM, doesn't it?) At the A> type STAT DEV:. That shows us the assignments as they are NOW. We will be concerned only with CON (Console), CRT (Cathode Ray Tube), LST (List device) and LPT (Line printer).

How many times have you wished you could run a program so that it would appear on the screen instead of the printer? Well, now through the magic of CP/M, you can.

At the A> type STAT LST:=CRT:. Nothing happened, right? WRONG. Use <Control> P to toggle on the printer. At the A> type DIR. Yes, you're seeing DOUBLE. What you have asked your Kaypro to do was send everything that was to go to the printer, to the screen. Since <Control> P echoes what is on the screen, both copies appear on the CRT. If your program asks for information to go to the printer only, it will appear SINGLE only on the screen. This works well with LPRINT statements in MBASIC. Try it.

These are only temporary assignments, but if you want to go back to NORMAL, be sure to STAT LST:=LPT: (after Ctrl-P again).

By the way, STAT LST:=TTY: sends the printer output through the Kaypro SERIAL port. That way you can use two printers.

WORDSTAR by Chiang

LONG FILES AND THE .\$\$\$ EXTENSION

There are times when you may want to work with very large files. Many word processing programs allow only files that will fit in the RAM of your computer (the room left in the Kaypro's 64k after the program is in memory). Both Wordstar and Perfect Writer will allow larger files, though, and have different ways of handling them.

In Perfect Writer, one uses the Swap File, often complained about in the pages of the KUGRAM, which is on the disk. Perfect Writer will take the parts of your file that you aren't working on at the moment, and place them for temporary storage in the Swap file (Hence the message: "Swapping..."). It does this for short files as well, but many complain about the Swap file's size when working with long files.

In Wordstar, a file that increases so that it will no longer fit in RAM is given a disk file named <filename.\$\$\$>. The top portions of the file are put in this file temporarily, while you work away at the bottom of the file. Thus, file size is limited only by the disk size. But what happens when, after newly creating your giant file, you want to go back to the beginning? The top of the file is restored to RAM, but the bottom of the file is put on disk, in a new file (called EDBACKUP.\$\$\$).

This can become a bit unwieldy if you keep moving back and forth in a giant file. You may get a "DISK FULL" message, which can be a fatal error. One way to avoid this when moving back to the top of the file is to use CTRL-KS, which saves the file and puts you back at the file's beginning. Thus, you have moved to where you wanted to, but you don't have any disk file with the .\$\$\$ extension. Of course, one should try not to have a very full disk.

Another matter of files with the .\$\$\$ temporary extension deals with Wordstar's safe method of file storage.

Let's say you have both <filename> and <filename>.BAK on disk, and you've just finished editing it. You want to save it, so you use one of the save commands. What does Wordstar do? You might think it deletes the backup file, saves the latest version, and adds the .BAK extension to the main file on disk. Close, but not quite. What Wordstar actually does is save your latest revisions under <filename.\$\$\$>, putting three versions of your file on disk. Then it deletes the backup, adds the .BAK extension to the main file, and takes the .\$\$\$ off the latest version of your file. (Did you follow that?) What's the difference, you ask? It's merely a safety precaution; if some disaster were to occur sometime in the process of saving your file, this insures that you never lose your backup file. Some people call this useless or unnecessary, but it is a nice feature of Wordstar. You might also get a disk full message due to this, if there isn't room for the .\$\$\$ file. Wordstar then follows the first procedure.

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WORDSTAR HINTS FROM KUGBB

WS's install program gives you the stated option to specify that your printer cannot roll the tractor up and down. If you tell it this, then it will print superscripts by advancing forward half a line, printing the super, advancing another half line, and printing the main line. If you also say the printer can't do half lines, it will do the same method but by whole lines, which means you must double space to use superscripts.

—Aaron Contorer

One of the most useful, little-known WS commands I've come across is Ctrl-R, which re-enters the filename you have used most recently. It saves retyping the filename you are working on as you print, edit, reprint, etc.

—Richard Freeman

If you want the B: directory to come up on the Main Menu of WS, just log into the B: drive first, then type A:WS or A:WS <filename.ext>. [Ed. note: This works for any word processing program.]

—Peter Jongsma

Another method of speeding up WS is to PIP over onto a new disk first the WS overlay files and then the .COM file. This has the effect of speeding up the program when such commands as Ctrl-Y are used. It also speeds up various messages that require disk access.

—Mark Lupton

AND MORE FROM KUGBB

I've learned how to use large type for titles and headings and to fully access the abilities of multi-font dot matrix printers for a single PW file. Many use the boldface and italics commands for limited access; I use @b and @i for half-spaced sub- and superscript. Or one can use @b and @i for large type and small type. But full access seemed impossible for printer control codes which include ESC, because you can't send ESC to the printer from a PW file. The solution is to use pfconfig to translate some unneeded key into ESC. I use the accent grave (item 96 in translation table). You must do Ctrl-Q just before hitting ESC—screen shows as ^[.

If you use translation table 0, the easiest, first undo the translations of items 35 and 94. Last, revise line 16 of your printer definition(s) to YES and line 17 to 0. Now you can have full access to all capabilities of your printer. Two tips: Changing type width requires trial-and-error changing of margins with @STYLE, and it seems necessary to leave a blank line in PW files after a change of type or margins.

—Don Davis

There is another way to embed <ESC> and other control characters in a PW text besides using the "quote" command form: Use the character translation table. See Appendix A, Step 6 in the manual. By substituting ^[for some little-used printing character such as the vertical bar [|], you can place an ESC character in your text with a single keystroke. This technique is also useful for embedding printer-control codes in a document. For instance, I translate the backslash character [\] into a printer backspace [^H], so I can strike over characters when printing in French or German. Carefully placed backspaces are also useful for modifying the appearance of PW's too-restrictive "environments." I've experimented a bit with this technique on an Epson FX-80, and can get most print modes and several carriage control commands into texts without much trouble.

—Walt Dickie

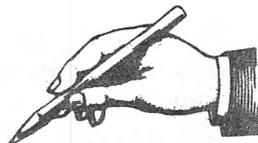
Those of you with questions about the 4'84 modem and program should read the addendum that was provided with the machine. It plainly states that the modem hasn't been type certified yet and cannot be legally used. I would guess that the usual bureaucratic delays at the FCC are the problem and that Kaypro just didn't anticipate the length of such delays properly. (Who can?)

—Grant Blowers

When using KMDM795, use the "T" command to enter the Terminal mode. To save to a file use T FILENAME.EXT. When you're ready to begin saving, type Ctrl-Y. When you've captured the data you want, type Ctrl-E to get back to the COMMAND line and type WRT to save the buffer to disk.

—Dave Katzakian

* * *



In Response ...

with thanks to Ron Friedrich.

...If you have had trouble using the SBASIC command "INPUT3 #5;X" (sample the keyboard and return the character if ready, else return 0, and continue program execution), you need to turn off line generation with the \$LINES command.

...The SBASIC manual tells you that you can speed up a program by turning off line generation (\$LINES). Here is another trick: If you will be using any non-negative integers which will not exceed 255, define them as CHAR or BYTE variables instead of integers. This is particularly useful in speeding up FOR...NEXT routines.

...A note on the MSS extension: Neither Perfect, nor Perfect Formatter, nor Perfect Printer requires the MSS or PC extent. You can use any three characters you like. Except for Perfect Formatter, you can even leave the extent blank. In the case of this letter, I've called this file "KUG.584." The extent here tells me the month and year I've written this letter. If I were to send it to Perfect Formatter, I would simply type KUG.584 when requested by the menu. PF then creates a formatted file called KUG.FIN. I need only type KUG when requested by the print option on the menu.

...Why use PW's VERBATIM command, when FLUSHLEFT gives you exactly the same results without losing your underlining options?

...When using THE WORD PLUS spelling checker, you can shorten your load time by entering A>TW B:FILENAME.EXT at the prompt. The program will then give you the option of skipping all the introductory questions, and getting right to work.

If it happens that you inadvertently enter a misspelled word in the Update Dictionary, you can get it out by using your word processor. Call up the file called UPDICT.CMP, and edit out your misspelled word.

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MORSE CODE TUTOR for KAYPRO II
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Kaypro Upgrading

By Gregg Platt - PeopleTalk Associates

THE MODEM CONNECTION PART 1

One of the best kept secrets in Kaypro-Land is the fact that you can travel the world with your computer and never leave the comfort of your easy chair. I have visited with Kaypros in Honolulu, Toronto, Washington, Tampa, Woodland Hills CA, Port St. Lucy FL, Robbins GA, Kansas City, and Lexington KY. These cities have something in common: They are home to one of the nodes of the rapidly-growing Kaypro Network, K-Net (tm).

Anyone who has spent time on a modem knows that there are many Remote CP/M (RCP/M) systems around the country being operated on Kaypros and that numerous RCP/Ms now have special interest sections devoted to Kaypro. However, the K-Net phenomenon is especially interesting because it represents the world's largest network of independently owned and operated Remote CP/M systems. This means that whether I call the station in Honolulu or the K-Net Base in Tampa, I am greeted by the same software and deal with machines which operate the same way.

Since early 1984, the K-Net group has grown from a single lonely outpost in Tampa into a nationwide network of 24 systems with new "nodes" coming on-line weekly. The secret to K-Net's success rests with two individuals, Steve Sanders, System Operator of the PRO-COM DATABASE RCP/M in Tampa, and Tony Stanley, Sysop of Acropolis RCP/M in Robbins, GA. Together they have managed to achieve the nearly-impossible goal of building a standardized and easy-to-install package which turns a Kaypro 4 or 10 into a fully functioning RCP/M. That's a pretty impressive feat by itself; but when you realize that they've managed to recruit twenty other rugged individualists into their ranks at \$450 each, it becomes evident that there's something unique going on.

We think there's a combination of factors involved. Soon after we purchased our modems, it became clear to us that tele-computing was emerging from obscurity and coming into its own as a daily activity for thousands of users.

Several of us at PeopleTalk still remember the day we submitted our first article via modem rather than mail. We had the distinct feeling that we'd taken a giant step into the future. "This is the way to write," we gloated, "No more mail boxes for us!"

As we took our first faltering steps from the local Apple-based bulletin boards into the RCP/M world, we encountered a major hurdle. Since we had our Free Software Handbook in the research stages, we needed to be able to reach beyond our local area and tap the software resources of RCP/Ms across the country. We assumed that after we were comfortable with local systems we'd just apply our experience in a few long distance calls and pick up all the software we needed. Little did we realize that no two RCP/Ms were identical and that virtually every system we called would require a new learning curve.

Fortunately, we discovered the K-Net base system early and learned to rely on it as one of the best sources of free software in the country. We've watched the K-Net package evolve with great interest, and after talking with Sysops who had spent weeks or months putting together RCP/M software, we were particularly impressed to hear one Bruce McConnell — Sysop of the K-Net node in Woodland Hills — say that his start-to-finish installation time for K-Net had been under one hour!

Of course, there are free RCP/M packages available, but then you're on your own to get them installed. If you're interested in setting up an RCP/M and time is money to you, then you may want to consider the K-Net alternative. But don't take our word for it; talk to people who use it. They do a better job of selling it than we can! For more K-Net information, contact Steve Sanders at 14 Cypress Dr., Palm Harbor, FL. And if you're looking for a K-Net RCP/M try:

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Lexington, KY	(606)-273-8634	(Free)
Port St Lucy FL	(305)-335-2227	(\$10/Qtr)
Robbins, GA	(912)-929-8278	(\$25/Yr)
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Toronto RCP/M	(416)-231-1262	(\$30/Yr)
WdInd Hills, CA	(818)-883-8446	(Free)

Turbo Pascal

Big Programming Power for Small Bucks!

Let me encourage you to look to Borland's Turbo Pascal and explain how Turbo Pascal can help you. Why Pascal? It was designed as a teaching language. The rules governing the formation of correct programs and program statements are relatively simple, few, and logical. Pascal became popular for a variety of reasons, mostly having to do with the advantages that the language provided to the programmer.

The first advantage: The programmer has to explicitly "declare" each and every variable that the program uses. This prevents a common BASIC problem where you mis-type the name of a variable that your program is using and end up with a new variable, one that doesn't contain the value that you want it to contain. Often these typos are quite difficult to locate.

The second advantage is related to the first: Pascal provides standard "types" of variables, allows you to define your own "types," and makes sure that you don't mix them. In practice this is no more of a drawback than is BASIC's refusal to let you add integers and string variables together. Naming your own "types" can improve the comprehensibility of your program, too.

Third: Pascal encourages "modular" programs, which are easier to write and to change, since each module is like a small program and small programs are easier to get working right. Pascal does this by providing named procedures, named functions, and local variables. Procedures and functions are similar to BASIC subroutines and functions except that instead of GOSUBing to a line number, in Pascal you just write the name; and local variables are just what the name says — variables that are only known within a procedure or function. In BASIC, a subroutine that changes variable A1 changes that variable for the entire program; in Pascal a change in local variable A1 has no effect on any other variable A1. The cost of this is that there are a few more rules on how to set up a procedure or function.

Fourth: Pascal eliminates the need for GOTOs by providing WHILE .. DO ..., REPEAT ... UNTIL .. loops, and IF .. THEN ... ELSE ... where the three dots represent one or more lines of program and the two dots represent conditions that must be met. Along with procedures and functions, these control structures make Pascal programs very easy to write correctly and to update. A little pre-planning is the only cost of this advantage.

Fifth: It is a compiled language. A program, once it is compiled, will run as a .COM or stand-alone program. (No separate runtime package needs to be in memory or even on the disk.) Thus, your program will run faster than an equivalent program in an interpreted language. The disadvantages of compilers are that you leave the interactive environment of BASIC for a split environment where first you use a separate editor and then you use the compiler. Any changes to your program require repeated cycles of this process. Overall, this is a less comfortable environment than the one that BASIC typically provides.

After you have learned to use Pascal, you will rarely want to go back to BASIC except for small, quick programs. And once you have experienced Turbo Pascal, you probably won't go back at all.

Some smart boys at Borland, Int'l have managed to write a Pascal compiler that is menu-driven, small, fast, and includes its own full screen editor. The compiler will flag errors and return you to the location of the error in your source code (program listing). This incredible piece of software (and it is incredible) sells for only \$50! This includes a 250+ page typeset manual that won't teach you how to program in Pascal (it isn't supposed to) but is a complete and thorough reference manual that will be useful for novices and advanced programmers as well.

The 8-bit version requires CP/M version 2.0 or higher and a Z80 processor based computer. Kaypro users have both.

Allan R. McCoy
1545 Leland Drive
Brookfield, WI 53005



Chapter News



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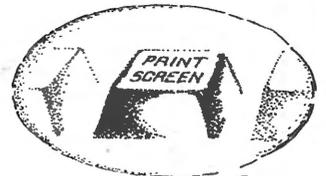
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STROKE OF GENIUS

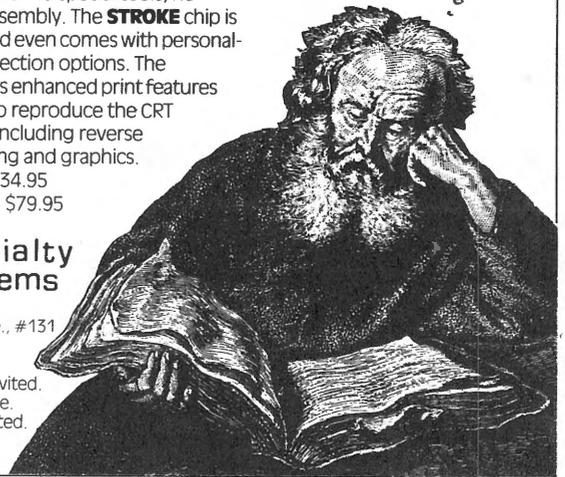


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