

# kugram

MAR.-APR. 1986 VOL. 4 NO. 2

Official Newsletter of the KAYPRO USERS' GROUP

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## CP/M ... MS-DOS ... SERIOUSLY SPEAKING

For quite some time now, KUG has been receiving mail and phone calls regarding the problems involved in making decisions about the "old" CP/M machines and the "new" MS-DOS ones.

Since the Kaypro Corporation ventured into the land of I.B.M. and discontinued the original Kaypro II computer, loyal Kaypro owners could not find the right path to "middle ground." Many articles have been written about the importance of moving up to the promise of better things from MS-DOS. Others tell about the importance of all the CP/M software already written and still available.

We have published articles and reviews discussing the benefits of staying with CP/M, and we must admit that we are slightly biased since we continue to do most of our writing within the CP/M environment. But we recently received a response to one of our survey letters which stated, "I am very concerned about the demise of CP/M and I'm tired of the 'cheerleading' offered by CP/M publications and vendors."

Another member asked, "What will happen to my years of accumulated data when I move on to MS-DOS?"

These are just two of the many letters and phone calls KUG has received asking for an "honest" opinion regarding the options that are available to our loyal CP/M Kaypro users and those who want to go to DOS but are concerned about their programs and data.

As we stated in the last issue of KUGRAM, KUG is using both CP/M and MS-DOS. We have three Kaypro PCs, a Kaypro 16/2 and the Kaypro 2000 plus the original Kaypro CP/M machines. Although it is important for us to have and know about Kaypro computers, it was also necessary to make the right choices for the applications.

Keeping up with technology can be very rewarding. Keeping up with technology can be very exciting. But keeping up with technology can be very expensive. Fortunately, there are many options open to all computer users.

In this issue we will discuss many ways to take advantage of these options.

Inside you will find articles and reviews about moving files between CP/M and DOS, an exciting new way to run all your CP/M programs on an MS-DOS computer, how your Filer or DataStar files can still be used on a DOS machine, and tips and hints to help you make those important decisions.

We felt that this important issue should be addressed by more than just this front page editorial. Therefore, for the first time, a special article regarding this most serious subject is discussed inside this KUGRAM. (see EDITORIAL.)

The article, written by Al Gerson, discusses the reasons why computer users make changes and why they don't; why it may be important to "trade up" and why it may not.

We hope this may help .....

## Editorial

"I.B.M. INTRODUCES NEW 32 BIT MACHINE. A CO-POWER BOARD IS AVAILABLE TO RUN BOTH 16 AND 32 BIT PROGRAMS!"

That was the headline regarding the latest in co-power technology. Do you get the feeling of "deja vu?" Wasn't it only yesterday we thought about a 16 bit co-power board for our 8 bit Kaypro computer?

When will it end? NEVER! What should we do? DEPENDS. Is there a way for me to go? YES!

Someone once told me, "I never procrastinate. I just wait until I get enough information before I make a decision." Perhaps we can offer enough information to get you to start thinking about making a decision.

Most of the mail and calls we have received have shown concern and confusion regarding the new MS-DOS computers. The cost of their computer represented a major investment. How can this investment be protected? If you're thinking of selling your computer, you will most likely take a loss. However, if your computer helps you in your work and allows you to make money with its use, then you can continue to make it worth more. Even if it's only to YOU.

Large corporations invest many thousands of dollars for mainframe computers only to find that technology has made these computers "old hat." The similarity may not be apparent, but your investment, in proportion, is just as great as the large corporation's. AND ... their concern is as great as yours. These major computer installations are not scrapped every six months to make room for the latest model. BUT ... new additions and peripherals are used, making them more adaptable to the latest technology. YOU CAN DO THE SAME.

The two major concerns regarding the CP/M vs MS-DOS controversy are: Should I stay with my CP/M system computer or should I move to MS-DOS? And, if I go to an MS-DOS computer, what will happen to all the data and programs I have accumulated over the past years?

If you were to start at the beginning asking the same questions you did when you bought your first computer, you would (or should) have determined what software you were going to use. The same reasoning still applies. If the software you are using still serves your purposes, then no changes are necessary. If it does not, it can be improved. Does improvement REALLY require a new operating system? If it's just a matter of more storage, inexpensive hard drives are now available for all CP/M machines. Does the change in software require a change in operating systems? Can a co-power do the job? Do you really need LOTUS 123 or can SuperCalc2 do the same job, even with graphics?

Things change. Even though you use a CP/M program that's been very good and faithful, the producer may decide to revise it and distribute a CP/M update that is not compatible with the first version, i.e., Perfect Software.)

O.K. So the MS-DOS software is more to your liking. How do you use your old CP/M files? Well, if they are word processing documents, they can easily be "moved" to the new system via modem or by using a multi-format program. If they are data files developed by special CP/M programs, that's another story. WAIT ... All is not lost. There is a way to co-process an MS-DOS machine to run all CP/M programs. In fact, we use it. (See the RUNCPM review in this issue.)

It seems that all new technological advances tend to lean toward DOS. But that does not mean that what you need is not available for your computer. In fact, we thought that we didn't have a choice if we wanted to use a laser printer. After further investigation, we found that we can use our word processor (under CP/M) and interface it with our H.P. Laser Printer.

Remember that service is another important consideration. As long as your computer can continue to be serviced, you can be sure that your favorite programs will continue to function for many years.

It's true that CP/M is becoming less prevalent. But how long will it be before you have to make the same decision about MS-DOS?

## A> DIR KUGRAM



Box 100



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Legend: G = general interest  
 TC = telecommunications  
 R = review  
 \* = MS-DOS

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|   |                    |
|---|--------------------|
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Dear KUG,

I have a Kaypro 4 (1982) with the 8088 math co-processor board. KUGGERS who also have one are well aware that this chip will serve as an extra RAM drive when initialized by the MD.COM (Memory Drive) file. Wonderful, now we have three disk drives, one of which has significantly enhanced read/write time (the RAM drive, of course). NOW FOR THE PROBLEM.

In the interest of speeding up file operations to the hilt, it makes sense to SWEEP your favorite program from the A or B drive over to the RAM (or M) drive and proceed with normal program operations while in drive M. If you have tried this with WordStar or Filer you will have noticed much faster data handling when reading or writing from or to the disk. However, you should have also noticed that the system momentarily switches to the A drive (in search of the operating system?) and then returns to M and performs the desired update.

Is there any way to keep the program control in the M drive, thus preventing the slower searching and reading of the CP/M operating system from drive A and ultimately speeding up data handling still further?

Kevin Schell  
 10-B Hadley Road  
 Sunderland, MA 01375

\* \* \*

Dear KUG,

The Xerox Service Center, which repairs Juki printers, tells me that there's no way to fix the problem with my Juki 1600: The ribbon turns down part way, and the printed letters lose their ascenders. Does anyone have a solution? (Apparently it's a common problem.)

M.S. Smith  
 4560 King Edward Court  
 Annandale, VA 22003

Dear KUG,

In the Nov.-Dec. 1985 KUGRAM the Editor invited comments on the use of SUBMIT.

As a result of the CP/M Stuff column on PIP and SUBMIT and letters such as Mr. Gilhousen's in the same issue, I have made up a menu, using the non-document mode of WordStar and at the command in the sysgen process entered "TYPE MENU." Therefore, when my Kaypro4 is cold booted or the reset button pushed, the menu automatically appears.

This menu contains 17 Perfect Calc spreadsheets I have developed to monitor investments, income, tax deductions, etc. For each spreadsheet I have written a short program using non-document mode. For example, (sa.sub) Stock Analysis:

```
MBASIC
LPRINT CHR$(20) (activates condensed
  print on my Okidata printer)
SYSTEM (return from MBASIC to CP/M)
pc b:stkanal.pc
```

I have been using the public domain program Ex14.com (instead of SUBMIT) and have renamed it x.com. When the menu of PerfectCalc files appears, I enter x sa.sub at the A> prompt and the printer is configured to output in condensed print and the stock analysis spreadsheet is brought up for updating.

Prior to using Ex14.com it happened more frequently than I care to recall that after working on a spreadsheet I realized that I had forgotten to configure the printer for condensed or elite print and it was then necessary to exit the file, set up the printer and then access the file again. And as would be expected with a file requiring condensed print, it would be as much as 20K and although my time is not terribly valuable, it isn't something I care to do sitting around waiting for the disk drives to grind away accessing the file.

I would be interested in learning what, if anything, others are doing with Keyboard Definition Programs for use with PerfectCalc.

Donald G. Kettner  
1310 Lincoln Street  
Rhineland, WI 54501

Dear KUG,

KUGRAM has been tremendously helpful over the years. However, relatively little has been said about sharing documents between CP/M and MS-DOS equipment. Despite what we had been told, we found CP/M and MS-DOS work well together, remarkably well.

WordStar is used with both our Kaypro II and our MS-DOS Sperry SP-2 w/hard drive. An easy to use program called UNIFORM enables our MS-DOS machine to read and write to the Kaypro's CP/M disks.

Documents can be created on either machine and read or edited by the other. all combinations of interchanging data have worked faultlessly.

To eliminate the bother of loading Uniform and other RAM resident files each time the computer is turned on, a simple autoexecute file automatically boots the system. You specify drive A as usual for working with an MS-DOS disk. Then to use a CP/M disk, call it drive D instead of A. The computer understands that a CP/M, not an MS-DOS, disk is being used.

A bigger frustration than mixing CP/M and MS-DOS was trying to remember which MS-DOS subdirectory was in use. So the autoexecute file also sets the prompt to include the subdirectory you are in. For example, instead of the usual C>, you now have C: wordstar>. You are in the WordStar subdirectory of drive C. The autoexecute format is easy to set up:

```
COPY CON AUTOEXEC.BAT <CR>
PROMPT $p$g[sp]<CR>
CHDIR UNIFORM<CR> (Uniform is in its own
  directory)
UNIFORM.EXE 2 G r<CR> (loads and sets
  Uniform to Kaypro II format)
CHDIR WORDSTAR<CR> (or any directory)
WS.COM<CR> (optional—will load WS)
^Z<CR> (press Control key with Z)
```

Now instead of typing in a lengthy set of tedious commands, just flip on the switch and grab your coffee cup. By the time you get back the computer will be ready, and able, to work with either system.

Gary Fixsen  
2249 Williams Highway  
Grants Pass, OR 97527

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

Rush me more information on Desktop!!

Name \_\_\_\_\_

Company \_\_\_\_\_

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Dear KUG,

I've never written to a computer group before, but I just discovered a simple and neat way to get Perfect Writer to underline on the C. Itoh Prowriter, and maybe on other printers, without overstriking the bottom of all the letters.

I used DDT to edit the character translation table (I use table "0") to print a graphics character, but then discovered that graphics and Greek "high bit" characters can be entered using PFCONFIG.COM.

Get into the "Edit translation table" section and select "Enter translation table." Character #95 is the "\_"; enter ESC...Ctrl-2, which shows up on the screen as if you'd typed ESC...Ctrl-@. (I've reassigned the "~" and "ˆ" to other values.) This enters the graphic character "\_" which is one line of printer dots below the normal underline character, and is also one dot wider, so there are no gaps between the underlining. You must also answer "YES" to the translation table question in the printer configuration section of PFCONFIG and specify "Table 0."

The last step is to change DIP switch 2-6 on the C. Itoh 8510 (Prowriter) to "OPEN" to allow the printer to accept 8-bit codes which include the graphics character at "80h."

What is interesting is that I discovered this from a WordStar configuration sent me by C. Itoh in the Boston area; they recommended 80h as the underline character (location 0710 in WS 3.3 and 070C in WS 3.0).

I had about given up on Perfect Writer after two years, but now I don't know. I'll probably use both.

Another less dramatic trick is starting page numbering on page 2 for letters. At the top of the file, I enter:

```
@PAGEFOOTING()  
@PAGEFOOTING(CENTER="--@VALUE{PAGE}--")
```

George Greer, M.D.  
3 Azul Drive  
Santa Fe, NM 87505

Dear KUG,

I want to pass along some information to other members of KUG regarding computer policies and electric utility companies.

As a result of a six-month legal battle with an insurance company and my local electric utility, I am out one Kaypro II, a line surge protector, and some Perfect Software.

Let me offer the following suggestions: Purchase the best line surge protector you can afford. Should you purchase a computer insurance policy with ALL RISKS, etc., read the exclusions, because they are not ALL RISK policies.

After the local electric utility fried my Kaypro II, a claim was filed with the insurance company. They refused to pay the damages under the exclusion "other electrical disturbances," which is a catchall for them. Their insurance adjuster concluded that powerline surge was an electrical disturbance. So, KUG members, read the exclusions, and if that phrase is on your policy, it is not worth the paper it is written on. Cancel it and get another.

Then followed a court battle with the electric utility. We lost on the grounds that we failed to prove negligence on the part of the power company. The only way to do that is to inspect every mile of their lines, transmission systems, etc., a physical impossibility.

They presented a case that had gone to the Supreme Court of Illinois. A Piper Aircraft distributor located in Elgin had lost a number of motors, fans, and shop equipment when the voltage dropped very low. The court concluded that the power company was not negligent in providing service, and that it is the responsibility of the equipment owner to provide protective devices for his equipment!

In conclusion, protect your computer with an insurance policy, because you'll never make it in court. This lesson has cost me approximately \$3,000.00.

Jack V. O'Keefe  
Rt#2, Box 248  
Marseilles, IL 61341

Dear KUG,

I note in the Jan.-Feb. KUGRAM that you are going to have to move text files to an MS-DOS pc in order to put them through a laser printer. With Optimizer, from Applied Creative Technology, Inc., a CP/M machine can also be hooked up to run on the Hewlett Packard Laser Jet printer. I know of one installation: American Conservative Union, 202/546-6555. Ask for Jake Hansen.

Jameson G. Campaigne, Jr.  
Green Hill Publishers, Inc.  
722 Columbus Street  
Ottawa, IL 61350

\* \* \*

Dear KUG,

Do you have any information about how other members are using their computers and which printers, etc., they have hooked up? I ask because I am in the Income Tax preparation business and I use a Tax software program called TAXWARE. It works with a Hewlett Packard laser jet printer. If there are others either using this printer for taxes, or simply using it with their Kaypro, I would like to be put in touch with them.

Jim Gallatin  
1070 Concord Avenue, Suite 295  
Concord, CA 94520

\* \* \*

Dear KUG,

I have been using CP/M 2.2E from Plu\*Perfect Systems and am very pleased with it. I would hate to give it up.

I have been using SmartKey and SmartPrint II, which work well under the 2.2E, and have been very pleased with them. I have just purchased the updated version of SmartKey, ver. 4.2. It is incompatible with the 2.2E! The manual says it has to do with the "interrupts" and that the "2.2E is causing the problem, not SmartKey." I don't understand interrupts; in fact, I probably don't want to.

But, I would like to reap the combined advantages of using the two programs together. HELP!

Adolph B. Amster  
P.O. Box 1106  
Ridgecrest, CA 93555

Dear KUG,

Canadian members might be interested to know that money orders are \$5 to \$8 cheaper than most cheques, when sending \$ to the U.S.

Help wanted: I'm considering a ram disk and would like to discuss the pros and cons with someone other than salesmen. Does anyone have any suggestions?

Jack Wetmore  
R.R. 6  
Fredericton, N.B., Canada E3B 4X7

\* \* \*

Dear KUG,

Are any users of the Kaypro 2000 interested in forming some sort of group to assist one another with problems unique to that computer?

Desmond Walls Allen  
P.O. Box 303  
Conway, AR 72032

## Special Offer

WHILE THEY LAST! KUG is now offering a special discount on back issues. You may order all Volume 1 (six issues, 1983) and Volume 2 (six issues, 1984) plus the volume index, for \$10.00 PER VOLUME. The binder is not included in this special offer. Send your check (with ID#) to Back Issues, KUG, Inc., Box 100, Malverne, NY 11565.

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When ordering KUG Library disks, please allow 2 to 4 weeks for delivery. Make sure your ID# and the number and name of the disk are included in your request. Write to KUG Library, Box 100, Malverne, NY 11565.

## ID#

Your KUG ID, issued when you first join KUG, starts with a letter. It will not change when you renew your membership. Please be sure to include your number in all correspondence.

## Checks & Balances

Why would anyone in the middle of a hectic schedule sit down and re-enter all the checks into a new check balance software program? Only one reason - it's worth it.

For the past year and a half I have been using Home Accountant Plus. I thought I was satisfied until a new program, CHECKS AND BALANCES, appeared on the scene. For those of you contemplating the purchase of a checkbook program, I offer a comparison between "Home Accountant" and "Checks and Balances."

Compare this. With Home Accountant once you've loaded the program, you have to go through the following procedure to enter a check. Go to the opening menu, pick an item ("Transactions"), then load that program. This takes a while. What do we get for this long waiting period? Another menu, then still another menu, more waiting and finally the screen shows a blank check form. Now, at last, we can get to work. Once you've filled in the information (Payee, Date, Amount, Memo, etc.) you hit "R" to record it. After another long wait, the next blank check appears.

With CHECKS AND BALANCES everything is immediate. The moment the program is loaded I get a screen filled with simple to understand options. Let's take our same illustration of entering a check. This time I only need to type "Enter." In a flash I am shown a screen with a blinking cursor at a blank check that looks very much like the one in a real checkbook. I feel more comfortable already. And, at the top of the screen is the last check I wrote. (Check number, Date, Amount, etc.) If I want to scroll back up through all my checks I use my "up" arrow...and no waiting for menus! Also, I can add as many checks as I want without waiting for my drives to whirr while each check is being recorded. And if I make a mistake I can correct it right away. Also, with CHECKS AND BALANCES it's a cinch to balance with the bank at the end of the month. With Home Accountant I would mark each check "cleared" or "uncleared" and then have to hit that darn "R" (record) again and sit back and wait and wait and wait.

Finally the next check would appear on the screen for me to mark off. With Checks and Balances you get a whole screen of just the "outstanding checks" and a cursor that quickly moves to mark them "cleared" or "uncleared." It takes about two minutes to go through your entire list of checks for the month. Fast! And isn't that why we all got computers?

All the options can be chosen from one clearly readable menu screen. (You can run any section of the program from the easy to read command line at the bottom of the screen. Just enter simple words like ENTER, TOTAL, SUM, PRINT, etc.) For instance, if you wanted to see all your deposits, all you'd have to do is type "SHOW DEP." (It's sort of like talking with your computer.) Immediately you get a listing on your screen (or printer if you want) of every deposit you've made to date. (If you use the MONTH option it will show deposits just for that month.) You can easily find out how much you spent for gasoline, or quickly find a check by number or category. And if you forget some of the details, SHOW will find the check with almost no more information than the first few letters of the payee, or budget category, or almost any fragment of information you remember. If at anytime you want to print out what you see on your screen, you just hit Ctrl-P and immediately your printer snaps into action. Also, by using the PRINT command on the main menu you can print out a huge number of different reports on most every aspect of your life.

A friend and I set up two computers of the same type, loaded HA into one machine and C & B into the other. Then we started entering checks. My Checks and Balances program had the checks marked off and reconciled before my friend on Home Accountant had gone through the menus and checked off five checks. No comparison.

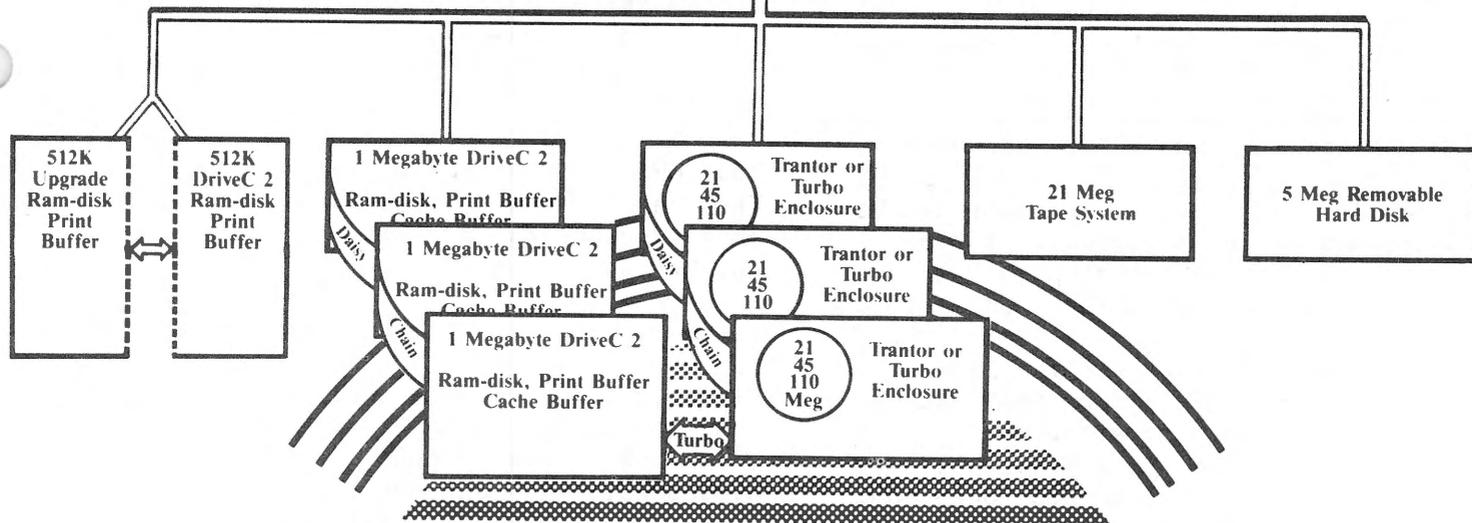
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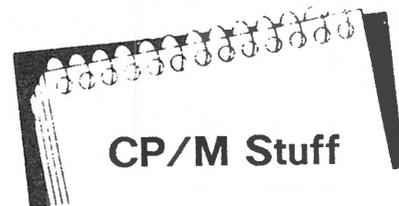
## dBASE Tax Book

With tax time approaching, some members may be looking for a handy method of recording and retrieving tax information throughout the year. Last year I came across A User's Guide to dBASEII by Perry and McJunkins and published by Reston, which covers precisely this kind of program. At that time I was preparing the tax information for my accountant, so I used the booklet to numerically "define" my "categories" based on that information. With a relatively short dBASEII "Command" file written for the purpose, I now start the dBASE program and "CMD" file, work on a cup of coffee and await the tax information for the current year. While the method does not make the paying any more enjoyable, this approach certainly beats anything else I've done with tax preparation previously, including the use of numerous "file folders" to keep track of the receipts!

I divided the various "categories" into basics like income and expenses, with "numbered" categories representing each area within those categories. For instance, "income" is broken down into four areas: Wages and salaries; Disability income; State income tax refund; and Unemployment compensation. Other categories might include Medical expenses; Taxes paid; Interest INCOME and EXPENSE; Contributions; and Miscellaneous deductions. For those with income properties, categories for those areas can also be made a part of this program by assigning various numbers to the areas involved.

Whereas the Perry/McJunkins book is written for dBASEII, v. 2.4, I am using v. 2.38, which meant removing some of the fine features in their examples had to be removed. In particular, the "relative," rather than "specific," screen addressing used in several of their program modules produced "errors" with my version. Once modified, however, they work every bit as well. While I'm still not elated at the prospect of "Tax Time," this program and my Kaypro II have eliminated the annual case of nerves.

Bob Wallace  
87 Wavecrest Drive  
Daly City, CA 94015



Your CP/M disk contains many treasures. They are there for you to use, but like many storehouses of riches, you must have the key to get to them.

Let's try one or two right now.

Place your CP/M disk in drive A and at the A> prompt type DIR. There are many files that never seem to be used or discussed. Two of them are ASM.COM and LOAD.COM. These are used to ASseMble assembly language files (ASM) and convert them into COM files.

Look through your library of disks and find a file with the extension ASM. PIP this file (we will call the file THISFILE.ASM) and ASM.COM and LOAD.COM to a formatted and sysgened disk. Place this disk in drive A and warm boot <control> C.

Now type ASM THISFILE. Do NOT use the ASM extension. This will take some time, depending on the size of your THISFILE.ASM.

Now look at your DIRectory. You will see two NEW files, THISFILE.HEX and THISFILE.PRN. We will now change the HEX (machine code) file into a COM file.

At the A> prompt type LOAD THISFILE. Again after a short wait, check your DIRectory and you will see the new THISFILE.COM that can be run by just typing THISFILE.

The ASM file can be changed or modified by using your word processor in "non document" or "alter" mode.

The PRN file can be printed on your printer by using <control> P and typing:

```
A>TYPE THISFILE.PRN
```

You can now make your changes or modifications to the "hard" copy before you use the word processor and re-assemble the program.

# Runcpm

by Arlene Smith

RUNCPM is a software/hardware combination that allows your PC to run virtually any CP/M program. The hardware is a chip that replaces the microprocessor that came with the computer. It contains instructions for the 8080 (CP/M) processor and the 16-bit (MS-DOS) processor. The software consists of 12 RUNCPM and auxiliary files on one disk.

The manual contains explicit and easy-to-read (and follow) directions for changing the chip and installing the program. With the system installed and configured, you type RUNCPM and then select "1. Enter CP/M Mode" from the menu. The system prompt appears in inverse video. You can now run any CP/M or MS-DOS program from whichever drive you choose.

On a two-drive system, calling the drives A: and B: requests MS-DOS format. With RUNCPM, the next available drive letters become the logical CP/M drives. These calls may be reconfigured in RUNCPM, making Drives A: and B: CP/M drives. CP/M emulation allows you to format, write to, read from, and execute CP/M programs.

Minimum requirements are: Kaypro PC, or compatibles; DOS 2.0 or later; minimum 128K memory; and either two floppies or one floppy and a hard drive. We tested this package on a Kaypro PC with 740K memory, two floppies and a 20 meg hard drive.

Our dealer replaced the chip, but we did the software installation ourselves. The directions were clear and easy to follow. Then we "played."

From Drive D:, we ran NSWP199H (KUG disk #124). It read the directories of Drive D:, the CP/M drive, and the root directory of Drive C:, the MS-DOS hard drive. We tagged files on both drives and copied them to properly-formatted disks in both MS-DOS and CP/M formats. Then we used the CP/M disks on Kaypro IIs and a Kaypro 10.

Disks formatted under RUNCPM in Kaypro IV format (double-sided, double-density) could not be read on any of our Kaypros.

A call to Micro Solutions' Dan Robey promised us a fix and update in virtually hours. Disks formatted under RUNCPM in Kaypro II (single-sided, double-density) format were readable and writable on Kaypro II's and 10's. They worked flawlessly.

We ran Select and CP/M format dBase II through RUNCPM with absolutely no problems. With RUNCPM invoked, we flipped from MS-DOS to CP/M programs one after the other. Everything ran, and ran fast. (The manual says that the speed of MS-DOS operations increases from 10 to 40 per cent with RUNCPM invoked. We did not benchmark, but "felt" that MS-DOS programs were running faster.)

If you have a color monitor and MS-DOS Mode Color, RUNCPM may be configured to run your CP/M programs in color. You may set any row to any color. WordStar 3.3 and Select running in color looked like totally new programs.

If you want different RUNCPM configurations for different CP/M programs, put each program and a version of the RUNCPM.CFG file, customized for that application, in different sub-directories.

If "MS-DOS is the way to go," and you can't sacrifice your CP/M library, RUNCPM, with its combination of power, speed, ease-of-use, flexibility, decent manual, and reasonable price, is a package well worth investigating.

Considering the fact that Kaypro Corp. is now very well entrenched in MS-DOS machines, we feel that this very important step in combining CP/M with MS-DOS is something that should be bundled with ALL Kaypro DOS computers. This will allow "older" Kaypro users to "step up" to DOS without the loss of important software and files.

You may want to send a letter to Mr. David Kay, President of the Kaypro Corporation, recommending that this modification and software be included with the new MS-DOS machines.

Available from: Micro Interfaces Corporation, 6824 NW 169 Street, Hialeah, FL 33015. Price: \$99.95



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# TurboROM

by Murray Simsolo  
Sysop of LIKUG MBBS-RCP/M

I have been the system operator of an RCP/M for the Long Island Kaypro Users' Group for more than a year. The system operates on a Kaypro 10, and in addition I own two Kaypros myself. One is an older Kaypro 10 and the other is a Kaypro 2X which came with the internal clock and modem and the new universal ROM. I had been using both machines to do various jobs such as assembling and testing software for the RCP/M and maintaining a public domain software library. I used the 10 for doing things which needed the speed and convenience of the hard disk, but I had been having trouble with the hard disk becoming filled up at times due to the length of the programs I work with. I used the 2X for the times when I just wanted to look at something I had on a floppy disk and didn't want to start up the 10. It was also handy for copying files from one disk to another or for copying whole disks. I thought that it would be nice to have one machine with the combined features of the two so that I could reduce the amount of money I had invested in hardware.

In the Nov.-Dec. 85 issue of KUGRAM I read Blake Van Meter's article describing the features of the new TurboROM developed by Advent Products and Plu\*Perfect Systems. The particular features I was interested in were the support for external hard disks and some others such as the time display on the 25th line and built in screen dump.

I installed the TurboROM in place of the original Kaypro ROM and booted up the system. I found that the hard disk formatter was easy to use. It has preset menu selections for almost all 5 1/4" hard drives available today. It also allows you to set all the necessary parameters if you want to or if your drive is not on the menu. I partitioned the drive as three equal logical drives. This is required because in CP/M no single drive can be larger than 8MB (8,192K). I then generated a new CP/M system optimized for my hardware. It was a 62K system, which should allow adequate TPA for almost any program. Then I ran into a problem.

It seemed as if the system was getting confused with the B floppy drive and hard disk connected. I disconnected the B drive and everything worked OK, but I did not have the 2 floppy drives I wanted.

I called Advent Products, and I found them very cooperative and willing to help me solve my problem. I found that the B drive select line and the hard disk controller reset line were interfering with each other. With the help of a "hardware hacker" in my users' group I worked out a modification to the mainboard which only required the cutting of 2 traces and the addition of 2 jumpers.

I now have a super machine that has all the features I need. The new hard disk is much faster than the stock Kaypro 10. This comes in handy when working with large files such as the BYE and XMODEM programs used on RCP/M systems. I believe that most of the improvement is due to the TurboROM's more efficient formatting.

If I leave the hard drive switched off, the machine functions as a normal 2X. This also means that I can disconnect the hard disk, leave it home, and transport the machine without concern that rough handling could damage the hard drive. I especially like the time display in the lower right corner of the screen, since it prevents me from staying up too late at night working on programs.

This is an example of one application of the TurboROM. There are other features which might appeal to you, such as RAM disk support and the use of up to 4 floppy drives, which can be either 40 or 80 track. I estimate that the entire cost of the 20MB hard disk system including the TurboROM was about \$800, which is lower than the cost of the external 10MB setups available for the Kaypro. I got the extra 10MB as a bonus plus the ability to boot directly off the hard disk, which cannot be done with some external systems. I consider the purchase of the TurboROM a very useful and cost effective improvement.

TurboROM is available from PeopleTalk Associates, P.O. Box 863652-B, Plano, TX. Phone 1-800-PT BOOKS.

# Sysop's Corner

by Frank Fallon

GO KAYPRO is the new command on CompuServe which gets you from the CIS prompt ! to the KUG SIG. Almost 2500 members visit the SIG each month, many nightly. The 256 messages on line at any time can be read or searched for information. The Data Libraries or DLs have well over 10 meg of programs, text files and games organized into 10 sections. The DL 3 section is devoted to 16 bit software for the Kaypro 16, the KP2000, and the Kaypro PC.

Messages deal with adding hard disks, add ons to the KP2000, the Handyman board, Advent's Turbo Rom, or just about anything a Kaypro user might want to know.

The KUG SIG is not the only interesting SIG in CompuServe, and you would be advised to visit the CPM SIG, Borland SIG, and the new DDJ SIG (Dr. Dobb's Journal) to name only a few.

The Kaypro SIG on CompuServe is entirely separate from KUGBBS. Some KUG members are confused and think that you can get to CompuServe through calling the KUGBBS number—516/747-8308. That's impossible, as they are two separate services. In order to participate in CompuServe you need a Starter Kit (KUG has them for \$35.00, including modem software, post paid) which will give you an account number or PPN, a password, five free hours of connect time and the telephone number of the nearest CIS node. Once you call that number you will be connected to CompuServe via a packet switch or node. After using the five free hours CIS will bill you via Visa, MasterCard, or check forwarding. The current rate is \$6.25 per hour from 6 pm to 8 am at 300 baud. Prime time or day rates are higher as are the faster rates. Some nodes have 2400 bps capability.

Another point of confusion is that once you arrive at the Kaypro SIG on CompuServe you must become a member, EVEN if you are already a KUG member. You must select "to become a member" and enter your full name.

Automatically you will be added to the SIG membership list. Bulletins on line and HLP files in DL0 explain how to use the system. Reading them will save you time, money and more importantly frustration.

The SIG standard is to use full names and upper and lower case. We want serious users and not simply game players, and thus insist on full names. Upper and lower case is much easier to read than a message in CAPS.

Set your parameters for 8, one, none. That is 8 bit word length, one stop bit, and no parity.

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

CIS has recently made this process much easier with a neat menu driven program. Updates and improvements are a constant feature on CompuServe.

Some users are confused by the file types, especially BIN files. BIN files are 8 bit binary files very like COM files. You cannot <R>ead them and they must be downloaded using XMODEM protocol.

The HLP files in DL0 explain the procedures to be used. Newly added programs now use the COM and LBR extension.

An LBR file is a BINARY file made up of a number of files (DOC and COM) which have been squeezed and libraried into one smaller file. Once you have downloaded an LBR file you must open the library and unsqueeze the files before you can use them. You need LSWEEP.COM to do this. With LSWEEP in A and the LBR file in B (the logged drive) enter

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

Once you realize what is available and learn how to use it quickly CompuServe is a very good value. For a knowledgeable user it is a great value at 1200 bps. Give yourself a treat and try it. We think you will like it.



# Important Facts About Radiation And Your Computer

Order Toll Free  
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800-624-5628 CA

The controversy rages. It's true. Your computer screen does shoot out dangerous ionizing x-ray radiation. Some people say, the emissions are harmless. Others say there is no such thing as harmless ionizing radiation.

So what's the problem? Simple. People are different. Some care about being safe, some don't. Here's the whole truth. You decide how you want to handle it.

## The Apparent Danger

Most Video display terminals (VDTs) are cathode ray tube terminals. In this type of terminal, ionizing radiation is produced by a cathode ray tube. The cathode ray shoots electrons towards a phosphor-coated screen. The phosphors energized by the electron beam emit light that creates the display image.

This activity produces many types of radiation. One of the most dangerous is ionizing x-radiation.

Hospitals use x-radiation to take pictures of the inside of your body. Dentists use it to look through your face at your teeth. The important thing is, when these professionals work, they stand behind lead impregnated shields.

Doctors know that the effects of exposure to the high photon energy of ionizing x-radiation are cumulative. They don't wear off. Bit by bit, they keep piling on. Too much exposure can lead to radical molecular changes. The kind of changes in the body that express themselves in cancer.

## Shocking Statistics

If you're a computer user, the question is, "Do I have to protect myself from the x-radiation that shoots at me from my video display terminal?"

Good question. At this time, the government says, "No." However, remember that things change. The government said yes to smoking for years. Now they say, "No." The truth is, as far as video display terminals are concerned studies aren't conclusive.

Some groups such as the National Association of Working Women, believe much more study is necessary. They point to shocking statistics like those uncovered by the National Institute for Occupational Safety and Health, in which they found that half of the 48 pregnancies among VDT operators at the United Airlines reservations office in San Francisco between 1979 and 1984 ended in miscarriages, birth defects, or other abnormal outcomes including two premature births, one stillbirth, and one neonatal death. Some say it's coincidence, others say it's scary.

## Low Cost Solution

Look at this. You can't protect yourself from all ionizing radiation. It's impossible. In fact, depending on where you live and even what kind of structure you live in, you're being exposed every-day to a natural level of background radiation.

However, the experts agree. You must do everything you can to limit your exposure to ionizing x-radiation.

If you're a computer user, the solution isn't to throw your computer out the window. Cars make smog, but you're not going to toss out your car because it smokes a little. Your car has a smog filter, so why not put a radiation "filter" on your computer?

It's easy to protect yourself against the ionizing x-radiation that shoots out at you from your video display terminal. A company called ACCO International makes an excellent combination lead impregnated radiation shield and anti-glare screen that easily attaches to your terminal. It works.

## Acco Lead Shield

This lead impregnated, impact-resistant acrylic shield is like the ones used in hospitals, military installations, and nuclear power plants. It is 30% lead. But you can see through it. It also has a mesh-type anti-glare screen that actually improves the screen image while getting rid of glare. It costs more than a regular anti-glare screen, that's because it protects you from the x-rays that shoot out at you from your computer screen. Helps get rid of burning, watery eyes, and other symptoms of VDT associated eye-fatigue too. Find out why in a special report you'll receive free with your radiation screen.

## Revealing Independent Study

In April 1984, ACCO International commissioned a hands-off independent study on their shield. At this time, few people know about this study. It was performed by Health Physics Associates, LTD., consultants in radiation safety. They're located in Northbrook, Illinois.

Health Physics Associates were asked to do an extensive test of the radiation screen. ACCO said, "Put it through the wringer."

The results of the tests are interesting. Foremost, because they prove the ACCO shield works. But, also, they prove that when you buy an ACCO radiation shield, you don't have to worry about getting a bad one. In fact, all three batches of ACCO Radiation Shields that were tested gave the same results. They were found to possess similar transmission or attenuation characteristics and similar lead contents. That means, when you buy an ACCO Radiation Shield, it protects you. Period.

Health Physics Associates reported that, "The ACCO Radiation Shield provided attenuation in excess of 8000 for x-rays incidents upon it at 10, 20, and 30 KVP." This means that for every 1,000,000 x-rays that your VDT shoots at you, only 125 will pass through the ACCO Shield.

Unfortunately, tests were not conducted on the anti-glare characteristics of this unusual screen. However, the fact is, the ACCO Radiation shield is both a very effective radiation shield and anti-glare screen. You don't sacrifice one for the other here. You'll find that as an anti-glare screen, it's as good or better than any other on the market. In fact, it appears to actually enhance and make the image on the screen clearer.

### Sample of Corresponding Sizes

- A. Portables: Kaypro II, IV, 10, 2X, 1.
- B. Compaq Deskpro. DEC PC. HP 100PC, HP 200PC, HP 80, 75. Honeywell 7200, 7300, 7801, Infowriter. IBM PC mono, Datamaster, Displaywriter, 3101, 8775. Lanier Easy. NBI 4000. NRC 7900. Wang PC-PM004. Zenith Z100, Z19, Z29, Z89, Z90.
- C. AT & T 6300 PC, Burroughs TD8000. DEC VT100. Epson QX-10. Hastech Edit3. Hazeltine Esprit.
- D. AT & T 5420. Altos 186, 486 Data General 6255. Digital VT240. Four Phase 5115. IBM PC 5154 Color. Kaypro Desktop PC. NCR Unix. Radio Shack TRS-80 I, II, III. Zenith ZT-1.
- E. ADDS Regent 20, 25, 30, 40, 60, Viewpoint 3A, 60, 90. Apple II, III. Burroughs B20. Hastech Edit 8, Magician. HP 264x, HP 86. IBM 3279 Color, 5151, 5153, 5291. NEC Color. TI OPTI 900. Wangwriter. Wang Ergo II, III, Wang 5200, 5300, 5700, 5800, 5900, TC-5900, 6300, 6340, Wang 2336 DW, 2885 DE, 2886 DW. Xerox 860, 820. Zenith ZVM 134.
- F. CPT 8100, 8500. Hastech Edit 8, PTL Graphic, 4/Sight. HP 262x, HP 9836 desktop. IBM 3278. Phillips MICOM 3000.

\*\* If your computer is not listed or you need further information, please call (805) 524-4189 for assistance. We have sizes to fit more than 500 computer VDTs. \*\*

## Easy Installation

If you spend long hours at a terminal day after day, you deserve not to worry about the possible

health hazards of over exposure to the x-radiation that comes from your video display. But, before making a decision for or against this radiation screen, think about how long it took for government studies to find that smoking was a health hazard, and to press the tobacco industry to warn about the danger. By then, millions had developed cancers and other equally vicious diseases related to smoking.

As one investigator on the hazards of VDT radiation put it, "To take the industry position that we should not provide precautionary measures until further research is complete is irresponsible." Sometimes, it's better to be safe than sorry.

Depending on the size of your terminal, your ACCO Radiation Shield will weigh one or more pounds. This solid weight proves the quality and insures good attenuation. The shield attaches to the outside of your computer's screen with a couple of strips of velcro tape. There's nothing to screw in, so you don't need any tools to put it on. It's easy to remove too. Just pull it off. Simple. By the way, although this transparent acrylic screen contains 30% lead by weight, it's easy to see through.

## Attenuation

As applied to x-rays, attenuation refers to the loss of photons in the passage of radiation through a material like a lead impregnated transparent shield as a result of absorption and scattering by the Compton, photoelectric, and pair production effect. The pair production effect, for example, is the process whereby an x-ray photon in passing through the nucleus of an atom is converted into a positive electron and a negative electron. As a result, the dangerous quantum or high energy x-ray photon ceases to exist.

## Money Back Guarantee

Ok. Those are the facts. Now, it's up to you. You can choose to start protecting yourself now, or think about it some more. In either case, you don't risk a thing by trying out this screen. It does everything claimed here. That's why Central Computer offers a 30 day money back guarantee on this tested product. You must be completely satisfied, or simply return it for a full refund. By the way, with your order you'll also receive a free copy of the complete report submitted to ACCO by Health Physics Associates. It's a little technical, but it proves the ACCO Radiation Shield is the best there is. Guaranteed. Order today.

Attention: There is nothing in this ad that has been over or understated. These are the facts. The question of possible health injury is so severe that major universities and health services are in the midst of extended studies. Unfortunately, these studies are just beginning and will last four or more years. Meanwhile, consider that working at a VDT is like holding your face about 18 inches from a television screen many hours a day, five days a week. Protection makes sense. Order today.

## ACCO RADIATION SCREEN GUIDE

| Screen Size (inches)                         | List Price | Central |
|--|------------|---------|
| A. <input type="checkbox"/> Kaypro Portables | \$139 each | \$ 99   |
| B. <input type="checkbox"/> 7 7/8 x 10 15/16 | \$149 each | \$ 99   |
| C. <input type="checkbox"/> 8 1/8 x 10 11/16 | \$149 each | \$ 99   |
| D. <input type="checkbox"/> 8 3/8 x 11 5/16  | \$169 each | \$ 99   |
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To order by mail use coupon on facing page. Specify computer model and or name of VDT.

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Central's super priced **SmartKey** combo pak includes a free copy of Paul Golding's \$15.95 book, *Screen Smarts, The Computer Tamer's Guide*. This book tells how you can use **SmartKey** to turn your computer into a supercharged mean machine. Saves money. Look at these prices. Order today.

| Description ‡         | List    | Central |
|-----------------------|---------|---------|
| SmartKey 4.2 CP/M     | \$49.95 | \$45.00 |
| SmartKey 5 MSDOS      | \$59.95 | \$54.00 |
| SmartKey & SmartPrint | \$69.00 | \$57.00 |

‡ Includes \$15.95 *Screen Smarts* book free

**Attention:** When comparing **SmartKey 4.2** to similar programs, please ask if they have a real delete key, windows, and other features that make **SmartKey** clearly superior.

## Text Filing Machine

Turn your Kaypro in to a powerful text filing machine. **SuperFile** is a textual matter database manager unlike any other. It puts you in control of your information. It allows you to easily store and retrieve notes, letters, random thoughts, contracts, depositions, invoices, new product information, sales reports, reference articles, scripts, abstracts, bibliographies, customer profiles, and much more. **SuperFile** accepts as many as 65,000 entries per database; allows 512,000 keystrokes per record, each of which can have up to 250 keywords; and indexes information you've stored on as many as 255 diskettes per database. Powerful.

Input for a **SuperFile** database comes from your word processor, so you can easily include information you already have into a database without having to re-key it. No fancy fields to define. This is a completely free-form database system. No programming language to learn. There's nothing difficult here. You can be up and running within minutes. **SuperFile** uses logical searching procedures to find your information fast. **SuperFile** searches from 60 to 400 entries per second. Save yourself the time and effort of filing and cross-filing information by hand or in overly structured data fields. **SuperFile** lists at \$195. Central's price is \$145. Order today to get **SuperFile** fast.

## Print Bright Pages

Wow! You'll be amazed at the compliments you'll get from using this program. No wonder. **FontStar** makes you look good. All you do is put a few **FontStar** commands in your letter, bulletin, invitation, or manuscript, and print. It's easy.

Don't let **FontStar**'s low price fool you. It's a powerful program. Although it's not as versatile as **Fancy Font**, it really brightens up plain jane dot matrix printing and for much less too. Works with Epson FX, RX, MX, and LQ1500 printers. Also works with Epson compatibles like Gemini printers too. Gives same results. Impressive. Good looking reports, letters, invitations, announcements, etc.

**FontStar** comes with 16 preprogrammed fonts, but it also lets you design your own fonts or character sets. **FontStar** doesn't require complex commands, or any tricks to operate. It makes typeset quality justification a snap, so everything you print looks super professional. Use as many fonts as you like in your documents. By the way, each font also comes with a complete set of foreign language characters, so printing in Spanish, French, or other European languages is a snap. Make your own Greek or Hebrew font sets too. Design special characters too. No matter what you print out, **FontStar** will make it look better. **FontStar** is only \$49. Order **FontStar** today. Get more from your dot matrix Epson or compatible than you every thought possible. Order today.

**Attention:** Imagine dot matrix printing with a flair. That's what **FontStar** does. Makes a page look bright. **FontStar** works with any word processor that produces plain ASCII files including **WordStar** and **NewWord**. Order today to get **FontStar**-type printing fast.

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Product Description List Central

### Kaypro CP/M and MSDOS Software

| ATI TRAINING SOFTWARE |                     |          |          |
|-----------------------|---------------------|----------|----------|
| CP/M                  | Training software.  | \$ 39.95 | \$ 33.00 |
| MBasic                | Speeds learning.    | \$ 39.95 | \$ 33.00 |
| Multiplan             | Gives fast results. | \$ 75.00 | \$ 57.00 |
| Wordstar              |                     | \$ 75.00 | \$ 57.00 |

| BORLAND INTERNATIONAL                                |  |          |          |
|--|--|----------|----------|
| Turbo Pascal 3.0                                     |  | \$ 69.95 | \$ 58.00 |
| Turbo Database Toolbox                               |  | \$ 49.95 | \$ 44.00 |
| Turbo Tutor, Step by Step                            |  | \$ 34.00 | \$ 29.00 |
| Turbo Holiday Pak                                    |  | \$125.00 | \$99.00  |
| — Pak includes all the above. Call for MSDOS prices. |  |          |          |

| CDE SOFTWARE      |  |          |          |
|-------------------|--|----------|----------|
| Checks & Balances |  | \$ 74.95 | \$ 64.00 |

| CHUCK ATKINSON PROGRAMS                     |  |          |          |
|---|--|----------|----------|
| Quick Check + AR                            |  | \$195.00 | \$149.00 |
| Quick Check Money Manager                   |  | \$ 95.00 | \$ 69.00 |
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| COMPUTER EDITYPE SYSTEMS          |  |          |          |
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| Magic Print ★                     |  | \$195.00 | \$155.00 |
| Magic Bind ★                      |  | \$250.00 | \$199.00 |
| Magic Index — includes ★          |  | \$295.00 | \$245.00 |
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| COMPUTRONICS         |  |          |          |
|----------------------|--|----------|----------|
| VersaBusiness Series |  |          |          |
| VersaLedger II       |  | \$149.95 | \$115.00 |
| Any other modules    |  | \$ 99.95 | \$ 79.50 |

| CONSULTANT SYSTEMS                                 |  |          |          |
|--|--|----------|----------|
| The Real Estate Consultant                         |  | \$399.00 | \$349.00 |
| with The Creative Loan Consultant                  |  |          |          |
| — Don't buy or sell property without this software |  |          |          |

| CUSTOM PROGRAM HOUSE                    |  |          |          |
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| Banner Plus                             |  | \$ 37.95 | \$ 18.95 |
| — Print you own huge banners & messages |  |          |          |

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| Decision Analyst                        |  | \$139.00 | \$124.00 |
| — Use logic process for decision making |  |          |          |

| E-SOFT                        |  |          |          |
|-------------------------------|--|----------|----------|
| Fastback, K-10 Backup Utility |  | \$ 99.00 | \$ 74.00 |

| DIGITAL MARKETING/PRO TEM                    |  |          |          |
|--|--|----------|----------|
| Bibliography                                 |  | \$ 99.00 | \$ 79.00 |
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| Grammatik ★                                  |  | \$ 75.00 | \$ 69.00 |
| Hyper Typer, Typing Tutor                    |  | \$ 39.95 | \$ 32.00 |
| Index ★                                      |  | \$ 99.00 | \$ 79.00 |
| Milestone, Project Planner                   |  | \$ 99.00 | \$ 89.00 |
| Bibliography and Footnote                    |  | \$150.00 | \$128.00 |
| Notebook                                     |  | \$150.00 | \$ 99.00 |
| Writer's Pak — includes                      |  | \$250.00 | \$189.00 |
| all ★ products and Random House Checker      |  |          |          |
| — Call for prices on other DM or PT products |  |          |          |

| EWDP SOFTWARE                             |  |          |          |
|---|--|----------|----------|
| Filebase with UTL                         |  | \$150.00 | \$ 99.00 |
| — Mailmerge enhancer and database manager |  |          |          |

| FRESHWARE                                       |  |          |          |
|---|--|----------|----------|
| DateMate  |  | \$ 29.95 | \$ 27.00 |
| — Design & print personalized calendars anytime |  |          |          |

| FYI, INC.                                    |  |          |          |
|--|--|----------|----------|
| FYI 3000                                     |  | \$395.00 | \$299.00 |
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| Deadline                                    |  | \$ 49.95 | \$ 43.00 |
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| Infidel                                     |  | \$ 44.95 | \$ 39.00 |
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| MENDOCINO SOFTWARE                        |  |          |          |
|---|--|----------|----------|
| Eureka, Disk Cataloger                    |  | \$ 50.00 | \$ 48.00 |
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|-----------------|--|----------|----------|
| MBasic Compiler |  | \$395.00 | \$299.00 |
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|--------------------------------|--|----------|----------|
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| Uniform for all other machines |  | \$ 69.95 | \$ 49.95 |

continued on next page —



# Starwares

We'll use ReportStar for one method of generating mailing labels. Copy the ReportStar programs onto the disk you use in the main drive: REDIT.COM, REMSGS.OVR, REPORT.COM, RGEN.COM, RMSGS.OVR, RINSTALL.COM. The .DEF, .DTA and .NDX files we've already created should be on the same disk as the program files.

<CR> = press RETURN; <type the named key>; enter this data; ^ = CTRL.

Insert your working application and data disk(s), Warm Boot, and log to the main drive. RINSTALL to install the program. Prompts are easy to follow.

Task 1: Enter a report generation program, and select the data file and fields to use for the labels. Log to the drive that contains the .DEF, .DTA, and .NDX files. From that drive: REDIT. Enter report specification file: <data drive:> NAMES. Read Help Screen 4; press <^J>. File Description Screen will appear.

<CR> NAMES <CR> <.DEF file drive> Accept the next two defaults [preset values]: <CR> <CR> Y to read in Index order. <CR> <.DTA file drive>. <CR> until you have responded to the prompt for a second file name.

<^C> to save what you've done so far. Ignore the error messages. C to save and continue. You will be placed in the label layout screen. The first line of the label layout screen shows the name of the report file, and LIN=001 CHR=001 for the cursor position.

Task 2: Design the label layout. (Use either <^Q> or \_ (underscore) to draw the line.) Use WordStar dot commands (already on screen) to force printing to start at column 1, and to turn page numbering off: PO 0 <CR> OP <CR>

Establish six print lines (not all will contain data); delete remaining lines; then move cursor back to LIN = 001 CHR = 001: <^S> then <space> 6 times. <^S> then <^Y> until the last line is LIN=008. Move the cursor until LIN = 003 CHR = 001.

Task 3: "Draw" the label layout and define the .DEF file fields for data:

First name: <^Q> 15 times. <^S> to move back into the field. <^R> to enter the field definitions. <CR> FNAME to name report field. <CR> until File Number prompt appears. 001 ("NAMES" will appear.) <CR> 002. (This is the .DEF file field number. ["Field 2" will appear.) <CR> <^G> to remove pad characters. ["\_" will appear). <^C> to return to layout screen. <^D> to move out of field. <space> to go to start of next field.

Last Name: <^Q> 20 times <CR>; <^S>; <^R> Enter definitions as you did for the first name, using LNAME for the Report Field Name, and 001 for the .DEF file field number. <^C> to return to layout screen; <CR> to move cursor to next line

Address 1: <^Q> 30 times; <^S>; <^R> Enter definitions, using ADDR1 for the Report Field Name, and 003 for the .DEF file number. <^C> <CR> to return to layout screen.

Address 2: Same as Address 1 line, using ADDR2 for the Report Field Name, and 004 for the .DEF file field number. <^C> <CR>.

City: <^Q> 20 times. Define using CITY for the Report Field Name, and 005 for the .DEF file field number. <^C> <^D> <,> <space>

State: <^Q> twice. Define using STATE for the Report Field Name and 006 for the .DEF file field number. <^D> <space> <space>

Zip code: <^Q> 10 times. Define using ZIP for the Report Field Name and 007 for the .DEF file field number.

<^C> to leave definition screen. <^C> to leave layout screen and go to exit screen.

R from the exit menu. <CR> <CR> to accept defaults. When printing is finished, you will see three no error messages and then a Warm Boot. Your report will have been automatically saved by REDIT and can be run again.

## PUT A CP/M COMPUTER IN YOUR PC!

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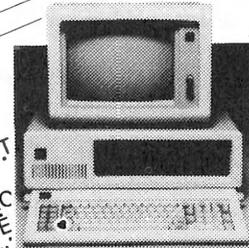
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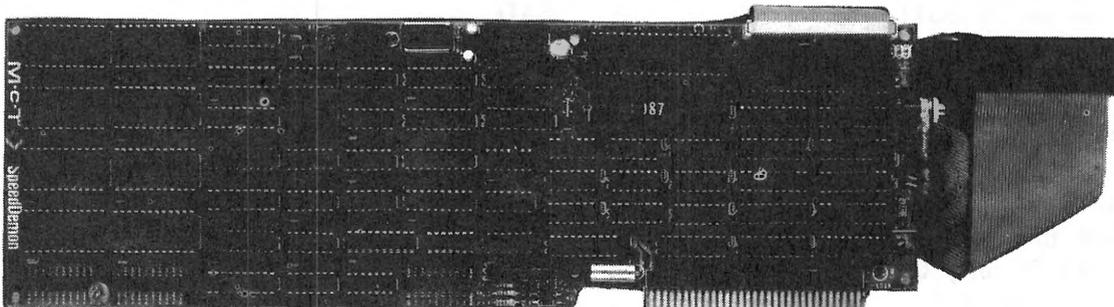
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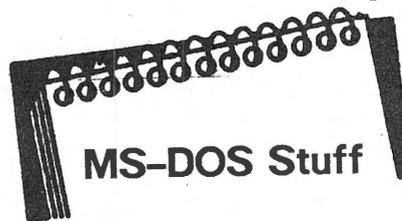
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In the last issue we discussed the prompt command, and the fact that it always changed back to the original when the system was turned on or re-booted. In this column we will discuss the program that allows you to set the prompt and continue to display it at all times.

The program is called AUTOEXEC.BAT. Let's put it to work.

With your DOS disk in drive A, type DIR \*.BAT. There it is. Now since this program may have some commands already inside, let's RENAME it to AUTOEXEC.TMP by typing REN AUTOEXEC.BAT AUTOEXEC.TMP.

Now we'll create a new AUTOEXEC.BAT file. At the A> prompt type:  
COPY CON: AUTOEXEC.BAT <return>  
PROMPT CURRENT DIRECTORY IS \$p\$\_COMMAND:  
<control>Z

Now reboot the system using <control> <alternate> <delete>. There it is. But what happened to the date and time prompts usually seen at the beginning?

In order to use them you must put them into your AUTOEXEC.BAT file. Now type:  
COPY CON: AUTOEXEC.BAT  
DATE  
TIME  
PROMPT CURRENT DIR IS \$p\$\_COMMAND:  
<control>Z (or F6)

Reboot again. You can now use the time and date for your files.

AUTOEXEC.BAT is a batch file that is executed upon start up or reboot. There are other .BAT files that you can create that will allow you to use DOS to develop your own menus. We'll try that next time.

REMEMBER ... DELete our AUTOEXEC.BAT and RENAME your AUTOEXEC.TMP file back to AUTOEXEC.BAT. You can add the above lines to it with your word processor if you like.

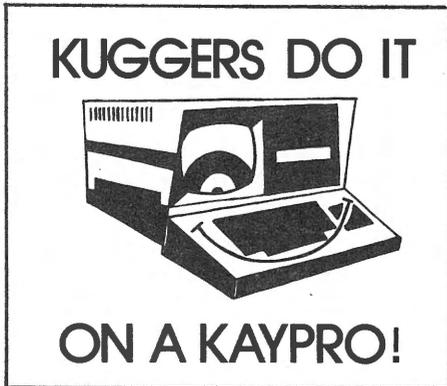
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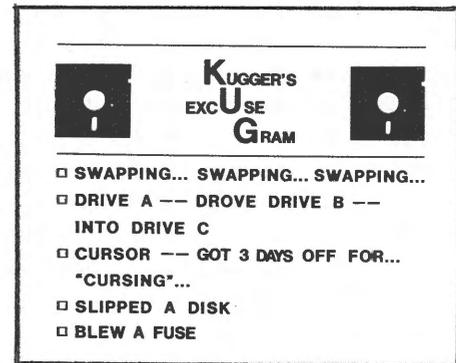
T 100



T 200



T 300



T 400

The contest is over and the winners have been selected. As you can see by the above designs, a lot of thought, love, humor and effort went into the design of each one. We want to again thank all the members who participated in this effort.

Now it's your turn to let us know how well we did in selecting these designs. Just fill out the form to order your favorite KUG Tee Shirt and it will be shipped to you in approximately four weeks. All of these fine tee shirts are printed in black ink on beige material (ala KUGRAM®) and manufactured in the U.S.A. The cost of each shirt is \$10.00 (U.S.) shipped pre-paid. (Outside U.S.A., add \$2.00)

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# WordStar by Chiang

## INTRODUCTION TO MAILMERGE

MailMerge, an accessory frequently included with WordStar, is an overlay file which acts purely as an extension of WordStar. The basic purpose of MailMerge is to take care of some tedious and repetitive printing operations. However, using MailMerge requires a fair amount of WordStar expertise.

If you are a beginner, the only practical use of MailMerge is for multiple printouts. At the Opening Menu, there is an option (M) to run MailMerge. This option is similar to option P, except that there's an extra question before the printout begins: "NUMBER OF COPIES (RETURN for 1)?" Now you can get multiple copies of your document.

Really using MailMerge is far more complicated than that, however. Doing anything else requires dot commands. In fact, all MailMerge does is enable you to use some specialty dot commands. A whole series of very powerful dot commands are used only by MailMerge and will be recognized only if you print with the MailMerge option. (Entering such commands causes an M to appear in the flag line at the far right of the screen.) Some specific commands will be introduced next issue.

The main purpose of MailMerge is to let you print form letters when you want to say basically the same thing to a large number of individuals. Normally you would type up the same letter to each of them. MailMerge lets you type the letter itself only once — in the form of a matrix document — and then allows you to enter separately the names of the people to receive the letter. You can enter the names of the recipients as a data file, for WordStar and MailMerge to use in an automated fashion, or you can enter them by hand at print time.

Notices to customers, updates for members of a club, queries; all of these are applications requiring a large number of (preferably personalized) copies of a letter. To make a few copies, it's easier to use CTRL-KR along with search and replace, but MailMerge is more convenient for larger numbers.

Right now let's look at what this matrix (or master) document looks like. It's like a form letter with the blanks to be filled in, except that the information that would go into each blank is called a variable.

As in programming, the value of these variables will change for each copy of the letter that you'll be printing. You may have a variable for the name of the recipient, the street address, the city and state, or whatever else you'll want changed for each letter. The matrix document will be the letter as you compose it, with the variables placed where you want the actual information to appear in the printed version.

These variables have names (or titles) like NAME, ADDRESS, or whatever. These names must be under forty characters long and they must begin with a letter; the rest of the name may contain numbers or hyphens, but no spaces or punctuation marks. The name of each variable must be unique in the document.

When the variable appears in the text of the document, it must have an ampersand (&) immediately before and immediately after it to identify it as a variable. Here's an example:

Dear &COMPANY&,

I saw your &PRODUCT& advertised in the &ISSUEDATE& issue of &MAGTITLE& magazine, and it seems very interesting to me. Could you send me some information ...

When printed out, a copy might read:

Dear HiTech Corporation,

I saw your Quikzip 220 printer advertised in the January 1986 issue of 8-BITS magazine, and it seems very interesting to me. Could you ...

The piece of data inserted can be up to 200 characters long, and can contain any kind of character (spaces, etc). Note that the document is automatically reformatted at print time to adjust for the inserted data.

Next issue we'll continue with form letters, explaining how to actually read from a data file or from the keyboard.

In Response ...



...When calling up a file from inside MBasic, type the filename in capital letters (it may have been saved that way):

LOAD "FILENAME or load "FILENAME

When you call up the file from CP/M, caps are not necessary:

[A>mbasic filename

...If you wear glasses and find that your eyes tire after a session in front of the computer screen, ask your optician or optometrist to prescribe glasses for a distance of 15" or so, the distance between your eyes and the screen.

...Some print wheels have symbols which have no corresponding keys on your keyboard. To discover how to access those symbols, turn on your printer, roll in a sheet of paper, press Control-P and strike each key in turn, with and without the shift.

...Keep your drive doors open when the computer is not in use. This avoids pressure on the drive heads.

...A chip is now available for MS-DOS computers, making it possible for that machine to read CP/M disks. (See review)

...To cut down on the noise of your printer, place it on a thin rubberized mat. Or, fashion a "hammock" that lifts the printer slightly off the desk.

...To clear characters mistyped at the A> prompt, press Ctrl-X. Ctrl-Z <return> at the A> prompt will clear the screen.

...If you cannot get your printer to eject from dBASEII, try typing SET EJECT ON at the dot prompt.

...Old programs such as Smartkey II will not run with the new universal ROM of the Kaypro 1. You need a new program disk. Changing chips won't work.

## An Invitation To Join The W/P Users' Group

Chances are that your KAYPRO is being used for many applications ... and one of them is probably Word/Processing.

If you are using your computer to type reports, write a book, or any other kind of writing, you should think about becoming a member of the W/P Users' Group.

Our bi-monthly newsletter, Scroll, published by the same people who bring you the KUGRAM<sup>®</sup>, contains information that will help you do more with your computer. Articles such as:

- Reviews of the latest word processing software;
- Basic tutorials and hints on using W/P software;
- Tutorials on using the operating system for W/P;
- Special columns devoted to business, professional and educational writing ... for the secretary, too;
- Glossary of computer terms mentioned in each issue;
- A vendor column of W/P software suppliers;
- Box 144, our informal mail information exchange;
- Listings of local W/P User Groups.

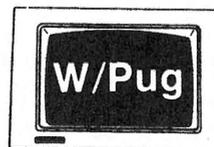
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Annual membership fee of \$15.00 (U.S.) must be accompanied by a letter stating your name, address, telephone, computer model, printer model and the word/processing program that you are presently using. KUG members can save 20% by just including their KUG I.D. number along with a check for \$12.00.

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The KUG Library Listing, describing Disks #101 to #158, is available free to members for a business sized SASE (with 39 cents postage affixed). Write to KUG Library, Box 100, Malverne, NY 11565.

### DISK 162: 20 PRINTER P/W CONFIGS

This disk contains printer configuration files for Perfect Writer: Brother, Comrex, Daisy, Diablo620, Diablo630, FX80, FX100, Gemini10, Gemini15, IDS480, MX80G+, MX100G+, NEC8023, Okidata84, Okidata92, Olympia, Prowriter, Silver-Reed, Starwriter, and Trans. The .DOC files give information on the various printers, such as DIP switch settings, device names to use, etc. The .DAT files are meant to be used as PF.DAT files. Use your pfconfig program to set Perfect Writer.

### DISK 163: SIMPLE DATA BASE SYSTEM

Programs written by KUGGER Roger Mckee using Turbo Pascal and Turbo Tutor.

AF.COM; AF.DOC: A menu-driven address filer. Records contain fields for name, address, comments, and an id code. Find any record by name or id field and browse through the database, editing or adding new records. List the database (to screen, file or printer) with a variety of sorting options. Also, merge information from one database to another.

D.COM: A directory program which lists files (with their sizes) alphabetically.

GEMINI.COM; GEMINI.PAS: A menu for setting options on a Gemini10X: pitch, number of lines per inch, super- or subscript, italic or other print mode, page margins, and page length.

GRAPH10X.COM; GRAPH10X.DOC; GRAPH10X.PAS: Allows the printing of graphics on a Gemini10X. Compose the image you want by entering a series of lines of equal length, placing a "0" where you want a dot to appear (where a pin will fire). Program converts this image into a high-resolution picture up to two inches wide.

TEST.DAT; TEST.IDC; TEST.IDN; TEST.PIC; TEST2.PIC: Sample database for Address Filer and sample pictures for GRAPH10X.

### DISK 164: POOR MAN'S RCP/M SYSTEM

Programs for setting up a simple Remote CP/M system.

BYE.COM Makes an RCP/M possible. Answers the modem when someone calls in and gives control over to the caller. The sysop can watch on screen what the caller does.

CHAT.COM: Allows caller and sysop to type directly to each other, back and forth.

LISTT.COM; LISTT.DOC: Utility which prints files with paging; allows headings, setting left margin, choosing which page(s) to print. Prints control characters embedded in the text.

LSWEEP.COM: Program that works with library files (.LBR, common on RCP/M's), which are composed of individual files grouped together. Program presents a command menu and a circular alphabetical directory of the member files in the LBR; allows operations such as creating a library, extracting, viewing, deleting the member files, etc.

NOTE.COM: One way to leave messages on the RCP/M. Type up to fifty lines of text into a file which can be uploaded.

NSWP205.COM: A version of NSWEEP. Copy, view, delete, squeeze, print files.

NULU11.COM: Library manipulation program with the features of LU, the Library Utility, and LSWEEP~ It allows the library operations of either program, with the command format of either program, in less space than either.

PMRCPM.HLP: Help file for these programs.

RDIR.COM: Directory program especially for use on an RCP/M. Along with an alphabetical listing with file sizes, it also gives the time required to transfer the files at the caller's baud rate.

SD.COM: Extended directory program.

XMODEM.COM: Allows file transfers to and from an RCP/M. \$SYS files cannot be transferred, and .COM files must have the extension .OBJ to be transferred. The file transfer protocol used by this program is the one which public domain modem programs must match.

## Library

- #101 PAC-MAN & CHESS (Games)
- #102 ELIZA & GOLF & MISC. GAMES
- #103 MODEM795 for tel. comm. (Modem)
- #104 HELP CP/M, MBASIC + Others (Helps)
- #105 UTILITIES 1
- #106 ADVENTURE (Games)
- #107 STATISTICS
- #108 MBASIC MYSTERY (Games)
- #109 UTILITIES 2
- #110 POSTER PRINTOUTS (Pictures)
- #111 KAYPRO 10 GRAPHICS
- #112 HELP PERFECT, SBASIC, Etc. (Helps 2)
- #113 SBASIC & MBASIC PROGRAMS (Business)
- #114 LITTLE BLACK BOOK (Directory)
- #115 STAR TREK + 15 MBASIC GAMES
- #116 MULTI-FORMAT DISK FOR K II, IV & 10  
(Multi-format disk runs on CP/M only.)
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- #120 HP CALCULATOR + MISC.
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- #122 SOURCE FOR FORTH (Language)
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- #125 HANDY (Time Management)
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- #127 PC & PW UTILITIES
- #128 KAREL THE ROBOT (Language)
- #129 MONOPOLY + MBASIC GAMES
- #130 MASTER CATALOG (Catalog)
- #131 LOGO GENERATOR/EPSON (Business)
- #132 SUPER UTILITIES 4
- #133 STATISTICS 2
- #134 STATISTICS 3
- #135 STATISTICS 4
- #136 STATISTICS 5
- #137 STATISTICS 6
- #138 FRANKENSTEIN (Game)
- #139 LITTLE BLACK BOOK (MBasic update)
- #140 FILE CARD DATABASE
- #141 K10 HARD DISK UTILITIES
- #142 ACCOUNTING PACKAGE (Business)
- #143 DISK MANAGER + (Utilities)
- #144 WORD PROCESSING + (WP Utilities)
- #145 TYPE & MATH--MBASIC (Educational)
- #146 UTILITIES 5
- #147 PF & WP UTILITIES
- #148 SCREENWRIGHT (Format)
- #149 VEGAS (Games)
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- #151 OUTLINE (Business)
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- #155 TELE/DEVICE/DEAF (Modem)
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- #159 YANC (Catalog)
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- + #702 CHESS & CASTLE (Games)
- + #703 OUTER SPACE (Games)
- + #704 PC-TALK (Modem)
- + #705 PC-ACCOUNTING (Business)
- + #706 SIDEWAYS (Printer Utility)
- + #707 PCYEARBOOK (Business)
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# Best of KUGBB

## PERFECT WRITER TIPS

I continue to be surprised at the power of Perfect Writer. The other day I found another undocumented feature. If your cursor is in the middle of a line and you type ESC...O, then Ctrl-C, it deletes from the cursor back to the beginning of the line! (Ctrl-C normally deletes from the cursor to the end of the line.) Experimenting a bit, I found that the same thing works for deleting a sentence. ESC...K deletes from the cursor to the end of the sentence. ESC...O, ESC...K deletes from the cursor to the beginning of the sentence. Although WordStar excels at "what you see is what you get" because it shows page breaks, I much prefer PW for entering text, and these features reinforce my preference!

When you do a "quick print," Perfect Formatter does not put in any printer-dependent features such as underlines or boldface. These features are turned on by special control codes, and Perfect Formatter puts the codes in the .FIN file, but does not send them when printing to the printer or to a disk file.

—Bill Meacham

Use the @INCLUDE command when linking chapters from different disks.

```
@INCLUDE(CON:)
```

```
@INCLUDE(CHAP4.MSS)
```

The first include will stop everything and wait for your input to the console. At this point change disks. Then type Ctrl-Z. The program will then move on to the next @INCLUDE(chap4) and you'll be in relatively uninterrupted business. If you have to reboot the new disk, do so before hitting Ctrl-Z.

—Irv Block

Writers of technical material: I've finally gotten Perfect Writer to easily print the Greek and math characters available on many dot matrix printers. Kristin Farry's excellent Perfectly Serious about Perfect Writer describes two methods. One uses switching between character sets—usually tedious and messy. The other translates unneeded keys into desired characters—neat, and keeps right justification.

But, mysteriously, it works with Epson but not my Mannesmann Tally and some other printer configurations due to what Farry calls the "phantom eighth-bit stripper." Perfect promised her a fixed PW upgrade, but I learned this remains uncertain. Meanwhile, I've found that the phantom is slain by SmartPrintII (companion to SmartKeyII). The 15 to 20 probably unneeded characters (#, @, &, \, >, {, <, z, Z, Q) are enough for most needs, especially since SmartPrintII makes it easy to tailor a translation table for each job and store it on disk.

—Don Davis

## MISCELLANEOUS

Turbo Pascal uses nonstandard syntax in one aspect of file handling. When writing files to disk, it is necessary to CLOSE them in order to actually get them written (a la BASIC). This is not emphasized in the manual and caused me an hour of aggravation.

—Kathleen McKusick

The Master Menu for the Kaypro 10 can be modified using MODFIL.COM, which modifies a copy of MASMENU.FIL, letting you rearrange the current information or add programs of your own. You'll also have to modify the S-BASIC source code (MASMENU.BAS) to look for the programs you specify.

—Carl Speed

If your hard disk will not boot, try the following protocol: 1) Insert your system floppy and hit the reset button. You should boot up on the floppy, which has now become Disk A. 2) Log on to B: (ex-A) and call up PUTSYS and PUTOVL. Remove the floppy disk and hit the reset button. It sometimes happens that all that is needed is to rewrite the system.

—Irv Block

After being plagued with sticking keys for some weeks, I learned how to unpry the stuck key from its switch beneath, using either a small screwdriver or padded pliers. You work it loose gently and gradually, spray the switch lightly with WD-40, work it up and down a few times, replace the key—again very gingerly—and you've got it working right. The space bar takes a bit more doing, but the technique is the same.

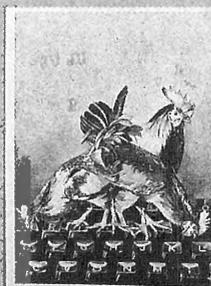
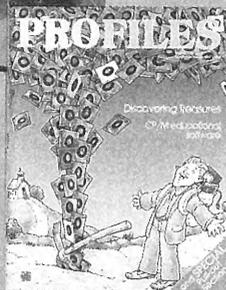
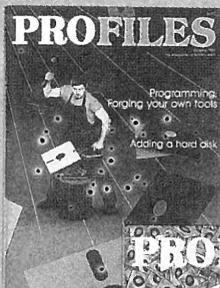
—Newt Meltzer

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# Silver Reed PenGraph

by Katherine Loukides

The five and a half pound Silver Reed Colour PenGraph EB50 is a graph plotter, a printer, an electronic typewriter, and a calculator, all self-contained without the need of software. It boasts the usual character and function keys, as well as keys to vary the print size (small, medium, large), print direction, style (standard or italic, underscore), line spacing, print mode, and color (black, red, blue, green).

The EB50's Graph Mode offers twelve types of graphs: pie graphs and bar graphs (with or without shading), line graphs (single or comparative sets of data) and a table of rectangular blocks. Graphs may be drawn in any of the three sizes. Also, you may elect to "test" the graph by asking the PenGraph to move the paper as if the graph were being drawn. Then you can position the carrier using the direction keys, so that the graph will print where you want it to. Comparative graphs are drawn in more than one color.

When used as an electronic typewriter, the EB50 offers two modes. In Direct Print the characters appear on the fifteen-character display and also directly onto the paper. Optional sets of special pens for correction on paper are available. But for typists like me there is Correction Print mode. One can check the 15-character display, where errors can be corrected before printing.

The illustrated manual, which includes sample BASIC programs, is extremely easy to follow. One is anxious to get past the practice exercises to experiment on one's own, because this serious piece of equipment is also a lot of fun to use. Its price (\$299.00) puts it within the range of any person who must make reports or presentations that require graphics.

MS-DOS software (Xchange, \$39.50), compatible with Lotus 1-2-3, WordStar 3.0, and other programs, allows the EB50 to emulate the major features of either an Amdek Amplot II or an Epson MX80.

Silver Reed America, Inc., 19600 South Vermont Avenue, Torrance, CA 90502, 213/516-7008.

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## Chapter News



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**OASIS KAYPRO USERS' GROUP**  
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 Merrillville, IN 46410

**QC-KUG**  
 Contact: R.E. Simpson  
 Box 865  
 Durant, IA 52747

The following members are interested in starting users' groups:

Charles West  
 5500 Mabelvale Pike  
 Little Rock, AR 72209

Matthew Cachere (Attorneys' group)  
 Box 14  
 Glen Cove, NY 11542-0014

## Beirut KUGGERS

Six to eight Kaypro users in Beirut wish to start a users' group. Most of us are faculty or students at the American University of Beirut and share the sense that we cannot get either information or assistance with our computing problems.

The University received 22 Kaypro IIs as part of the program for the promotion of computer usage in developing countries. This gift, while stimulating interest in computing and providing facilities for the students, has created a new problem. With no Kaypro dealer in Beirut, little reliable service and information are available. People in the University Computer Institute have been helpful, but often they do not have access to information we need. Universal Business Systems did plan to provide the service but after two years still has not received a machine.

In addition to the need for general information about products and services, many of us have special application needs, i.e., Kaypros with Arabic characters. The quasi-dealer here and the quite excellent Kaypro dealer in Cairo (who gave me a KUGRAM) both report that it is possible, but we still don't have that capability. One faculty member needs access to a LIST compiler. We have replied to advertisements, but the information we received was so incomplete that we could not make a decision about its usefulness.

Neff Walker  
 Dept. of Social and Behavioral Sciences  
 American University of Beirut  
 Beirut, Lebanon

KUGRAM is a KUG membership newsletter published 6 times yearly. The following rates apply:

U.S. & DOMESTIC .... \$15.00  
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Al Gerson, Editor and Publisher

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KUG is in no way affiliated with Kaypro Corp. other than its need to receive the latest up-to-date information from the company regarding the Kaypro Computer.

KUG's Bulletin Board on Long Island is available to all who wish to use it. However, all "downloading" may require the use of the member's ID Number. Again, this is provided as a service and KUG cannot be held responsible for any faults in the programs available. KUG's BB phone number is (516) 747-8308. CompuServe's Kaypro Forum (KUG SIG) is 60 PCS 25.

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