

KUG BULLETIN BOARD GOES "ON LINE" MARCH FIRST

As of March first, you will be able to get all sorts of information transferred to your Kaypro by just calling the KUG number in Chicago.

Of course you will need a modem and some communication software, but, this promises to be the start of some great co-operative efforts on the part of all our members.

You will be able to leave messages, get messages, "down-load" programs called in by members, learn what's happening with our library, and get answers to some of your annoying problems.

To understand a little more about modems and communication software, let's discuss their use with the Kaypro II.

The type of modem you use should be rated at 300 baud (300/1200 is O.K. too). That means the amount of characters being transferred is about 30 per second. At 1200 baud the count would be 120 characters per second. The type of modem could be either direct (uses the same connectors as the Kaypro keyboard or telephone jack) or acoustic (the telephone hand-set fits into two openings for sending and receiving).

You will need an RS232 cable to fit into the back of the Kaypro and to the modem. The modem usually comes with the cable to be connected to the telephone (if it is direct connect).



About the software, you already have a communication program on your CP/M disk. It is called TERM.COM. This program will allow you to communicate with the bulletin board but you cannot save any of the information on disk. There are other programs available such as "Move-it" or Modem 7 that will allow you to store from memory. We will have a modem package available to members that will let you do just that.

The procedure is as follows:

Place your CP/M disk in drive A and type TERM <return>. The screen will tell you that the Kaypro is a "dumb" terminal and it will ask you for a <return> to start communicating. DON'T HIT <return> YET!

Using the instructions that came with your modem call the KUG Bulletin Board in Chicago by dialing 312-397-0360. NOW, HIT <return> a couple of times. The KUG Bulletin Board Menu will appear. Just follow the instructions and enjoy it.

At first, the bulletin board will be available to anyone who calls, but eventually you will be asked for your KUG ID Number so that you can have access to privileged information.

The baud rate for now will be 300. Later on you will have a choice of either 300 or 1200 baud.

We here at KUG look forward to working with you through this new medium and would like to hear from you regarding its use for a mutual benefit.



Box 100

Memo from the desk of Dr. Robert Morgenstern...

Dear Folks,

I can't say it enough times, "Fantastic". Just re-read Volume 1 #1 Kugram for the sixth or is it seventh time. As a beginning user your plain language and various columns ie: "CP/M stuff and Starwriter" are a fount of information - all practical.

At this point I am more a taker than a giver so please keep up the good work, because my wife likes to see me happy.

**

I was very pleased with the first issue of the newsletter and think that in it you have set yourself up for a continuing challenge.

I have two suggestion, and one question. First, I think that you should have the newsletter punched for a three-hole binder... I think most of us intend to save the newsletter because of the variety of tips which will be in them... Second suggestion, is that you include a corner identifying your editor, and other staff...

And now for the question: How do you suggest disks [articles] can be sent through the mails... does one merely package in surrounding cardboard with a plea for handling with care?

Luise N. Healey, Costa Mesa, Ca

In answer to your question about sending disks through the mail, there are commercial disk mailers available through business stationery or computer supply stores. However, you may wrap it in cardboard with a plea for special handling. Please note, wrapping in aluminum foil can be hazardous to your disk.

Regarding your suggestion about identifying our staff, we share our writing and editorial responsibilities equally.

It was good to get your newsletter. Here are some names of software companies who are putting their programs on Kay Pro II.

Computer Systems Design Inc.
P.O. Box 735
Yakima, Washington
98907

...They have special payrolls for agriculture and restaurants. Also a new Utilities Billing for electrical, sewer, water etc.

Also for the Farm:

SHUBOX
Agricultural Management Systems
2770 Vista Ave.
Boise, Idaho 83705

If any users are building contractors and have good templates for the Perfect Calc. for estimating and other uses please send them to:

Ted Ullman
209 N. Sprague
Ellensburg WA. 98926

I'll send back the disk with other templates from other contributors. Thanks for providing the much needed work on KUG.

Ted Ullman

* *

Dear Kuggers,,

I recently received my Perfect software update package, and would like to share my experiences with it. Quite frankly, I am very disappointed in Perfect Writer (I have not done much yet with the other Perfect items). I am a university professor and I need a word processor that I can use to prepare manuscripts for publication. Unfortunately, Perfect Writer is not nearly so useful for this purpose as Select. My complaints follow. (1) There is no way to set tab stops where you want them. You can enter the installation program and change the tabs from every 8 columns to some other value, but the distance between tab stops must be a single value. I find this extremely limiting as I frequently need to have variable width columns.

(2) Probably the most severe restriction is the lack of a status line as in Select. It is especially important to know where page breaks come so that you can avoid breaks at inopportune spots. Perfect Writer will tell you, upon giving the appropriate command, how many lines into the document you are, and it would be possible to do some arithmetic to determine page breaks. However, if you insert a page break earlier than the number of lines on a page, then the arithmetic will be thrown off on all subsequent pages. For this reason alone, I could not use Perfect Writer for my manuscripts. Along the same lines, Select permits one to go directly to any given page number—something that is impossible in Perfect Writer. If anyone devises any way to determine page breaks, I would greatly appreciate hearing about it.

(3) I have need to use a running head in the upper right corner of each page, and to have the page number spaced 2 lines below the head. In Perfect Writer, you can have the page number or the running head in the upper right corner, but not both. This is simple to do in Select.

(4) Did anyone else experience difficulties formatting a file? I went through much frustration before discovering that the only time it was necessary to type a period after the filename was when formatting. At all other times, the period is unnecessary. This bug was particularly difficult to find [for me] since the manual specifically states near the top of page VII-4 that ".mss" is not necessary. I already have made a number of corrections to my manual—especially in the index where I have found several incorrect page references.

(5) When formatting, I have had another problem. The error messages flash by so quickly that I do not have time to read them before they disappear. Consequently, I have to make the same error several times so that I can determine what the error is and what line I need to correct.

(6) Select is far superior in terms of page formatting (margins, line spacing, etc.). However, this is merely a nuisance compared with the above problems.

(7) On page VII-13, we are told to use [control-G], the cancel command, to stop printing. I have not been able to get this to work. If I want to stop printing, I must turn off the printer. Has anyone else had this problem? I installed Perfect Writer for an Epson but that messed everything up totally. I can only get a file printed under the "vanilla" designation. Does anyone have any solutions to this?

I tried phoning Perfect in Berkeley, to see if they could provide answers to any of my questions. After 2 days and being referred from one person to another, I finally got in touch with the appropriate person (Ina at the KayPro offices in San Diego). She was sympathetic and tried her best to help me, but apparently she is kept so busy answering calls like mine that she has not had the time to thoroughly understand the software. This is a major problem since Kaypro has an agreement with Perfect Software such that individuals can only talk with Kaypro. I am afraid that Perfect Writer was designed with someone in mind other than a user such as me. All is not bad—for example, the editing features are far better and faster than Select. However, these problems make it unusable for me. Has anyone tried to write in Select and edit in Perfect? It seems to work if you insert carriage returns on each line, but the format is messed up otherwise. Is there a way of doing this?

I have enjoyed my Newsletter and look forward to seeing the future issues. Thank goodness for user groups!

(Keith A. Wollen
S.W. 805 Fountain
Pullman, Washington 99163)

Help Wanted

There have been several requests for :

Amateur radio software (TTY and RTTY)

Educational software

Games

If you have any information or programs that apply to the above, send 'em on down.

Serial Printers and KAYPRO

by Thomas E. Coates

A recent review of the Kaypro stated that it was impossible to use a serial printer. Not so. Here's how I did it with the Anderson-Jacobson.

I was attracted to the A-J 831 because it is a 30 cps daisywheel printer of proven design, there happened to be a service depot nearby, and the price was appealing. There are drawbacks, too. Dot matrix printers are faster and less expensive and almost any printer would be less bulky. However, my experiences with the A-J are applicable to other printers.

I visited the dealer the first time to size up the operation and to place a deposit. While there, I asked for cable specifications. If the dealer had been unwilling to provide them, I might have gone elsewhere, or insisted on a free adapter cable. As it was, they gave me the following table. The plug on the Kaypro end is on the left, and the socket into which the A-J plugs is on the right. Both are DB-25's.

Kaypro plug	A-J socket
2.....	3
7.....	7
20.....	8
5.....	20

I bought the plugs and sockets and a spool of four-conductor round cable at Radio Shack for under \$10. I made up a nice long cable - 20 feet - using the color codes. I soldered one end of the red wire to pin 2 on the plug, and the other end to lug 3 on the socket. And so on. Of course, if you prefer, you can arrange for the dealer to make up a cable for you.

This cable layout may be useful for other serial printers, if, like the A-J, they were designed to be used as remote terminals. The GE Terminet series comes to mind. These terminal printers were all meant to plug into the same RS-232 socket on 300 baud modems. Be warned, however, that I have not tested any other setups.

When I returned to the dealer, I took the cable, the Kaypro, and a couple of disks. No harm was done by the oversight, but it would have been better if I had studied the INSTALL procedure for SELECT. At any rate, because of the computer's portability, it was easy to verify that the computer and printer worked together satisfactorily simply by typing Control-P to duplicate the screen display on the printer. The little test was uneventful and the dealer used the opportunity to show off the combination to some of the customers (he'd sold his Kaypro demonstrator weeks before). When I was satisfied, I paid for the printer.

At home I configured it without difficulty to the "TTY-like" option in SELECT. It has functioned flawlessly for several months. With SELECT, it provides bold and underline but not subscripts or superscripts. I think I could have had that feature, too if I had purchased the bi-directional pinfeed instead of the tractor.

It's simpler to buy peripherals when you can take your computer to the store and integrate them there instead of waiting till you get home.

"Perfect" Genealogy?

Currently I am working with PERFECT WRITER, FILER, and CALC developing charts, databases and procedures for keeping genealogy records. I would like to hear from others working in the same direction. If you'll send me blank diskettes and return postage I'll copy the charts and databases I have developed and return to you with some idea of how I am using them to tame the horde of files I was collecting as family activist. Currently I have developed three different databases and a couple of charts so I'd need 5 diskettes to share my current production.

Alice Petersen
3010 Regency Apt. 40
Ames, IA 50010
Ph: 515-232-8276

In Response ...



to your most frequently asked questions...

...The Perfect software updates are available, as well as the Perfect Calc manuals, from your dealer...

...Wordstar is available for the Kaypro...

...A grammatical checker similar to "Grammatik" is available. It is called Grammatik. Aspen Software, who produced Proofreader (see the review in our last issue) has both of these packages available for the Kaypro...

...Many people have asked for home finance programs. Perfect Calc contains several runnable programs. Check these out before investing in additional software...

...Hard disk storage is available for the Kaypro...

...Dealers now have the Tinker Kit available. It includes: ROM listing, BIOS Source Code, Copy and Format Source, and Config Source...

...MBASIC is available through dealers at an approximate cost of \$250...

...Gamma Research advertises a battery pack for the Kaypro...

...The SQR function in SBASIC gives proper square roots for small numbers, but becomes highly inaccurate with large numbers. Raising to the 1/2 power will give the desired accuracy. (Thanks to Robert G. Wegmann for this info)...

...Kaypro II does not have graphics capabilities at this time...

...Kaypro II does not support double sided double density drives...

* * * *

Vendors

Gamma Research
6253 Hollywood Blvd. #711
Hollywood, Ca 90028

Battery pack and power backup.
* *

Aspen Software
Box 339
Tijeras, New Mexico 87059

Proofreader (spelling checker) and
Grammatik (grammatical checker).
* *

Woolf Software Systems
23842 Archwood Street
Canoga Park, Ca 91307

Move-it (modem software package).
* *

GT-CMS Computer Systems
P.O. Box 190
Albertson, New York 11507

Software and hardware guaranteed to work
with the Kaypro.
* *

Paul Weiss
79 Cunningham Avenue
Uniondale, New York 11553

Computer related novelties.
* *

Media Distributing
444 Scotts Valley Drive
Scotts Valley, California 95066

Hard disk sub-systems.
* *

Micro Computers of New Orleans
4539 I-10 Metairie
New Orleans, La 70002

Hard disk sub-systems.
* *

Custom Mica Craft
110 Southern Blvd.
Nesconset, NY 11767

Computer furniture
* * *

When writing to the listed vendors,
please mention that you saw it in the
KUGRAM.

Open wide and say Ahhhhh!

by Dr. Kug DeBug

Many members have written or called regarding problems with the installation of printers with Perfect Writer. A program called PFCONFIG located on the installation disk is used to install and/or define your printer to Perfect Writer.

First a little background. PFCONFIG modifies a file called PF.DAT that resides on the PERFECT WRITER edit disk. There is also a PF.DAT file located on the PERFECT WRITER installation disk. Please note that this program modifies [edits] the PF.DAT file on the currently logged onto drive (more on this in a bit). The following paragraphs will lead you step by step through a printer definition and modification. I recommend that you sit at your Kaypro and have your Perfect Writer Edit Disk and Installation disk along with your printer manual.

Ready???

Let's get started !!!

Place the Perfect Writer Edit disk in drive A and the Installation disk in drive B. Warm boot (control C). Log onto the A drive. To log onto a drive, simply type the drive designation (a: or b:) and hit return.

Type in B:PFCONFIG followed by a return. The reason for the B: in front of the PFCONFIG is to tell CP/M that the program is on the B drive. PFCONFIG will display a paragraph or two and then ask you the first of many questions which is.... Do you wish to exchange the disk you are logged onto? If you've been paying attention, your answer to this question will be NO. So just type the letter N.

This will lead you to the Master Menu. At this point you will notice several options. The one we are concerned with is option 2 (Define Printer Types). Type in the number 2 followed by a carriage return.

This leads us to yet another Menu. This is the Printer Definition Menu. It gives you six (6) choices. The first choice will list all the currently defined printer types. Type in the number 1 and hit return. Look at that list. Count them up. If there are 16 printers defined, one of them will have to be deleted to make room for a new one (it seems that there can only be sixteen (16) printers defined a one time). To delete a printer, type in the number 4 followed by a return (Delete Printer Definition.) You will be asked for the name of a printer type to delete. Pick any one and hit return. So what's all this stuff coming up on the screen now???

PFCONFIG is displaying the current definition of the printer you have chosen to delete. Notice that on the bottom of the screen PFCONFIG is asking if it is OK to delete this printer definition. If it is, just type in the letter Y. This will delete the printer definition and return you to the Printer Definition Menu. If you choose the wrong printer to delete or changed your mind just type the letter N and you will be returned to the Printer Definition Menu. Choose option 4 again to delete the correct printer.

Now we have room to add a New Printer. To add this new printer, choose option 2 (Define New Printer Type). Type in a 2 and hit return.

At this point (if all is going well) you are asked to enter the name of the printer you are defining. It is suggested that you use a name that is meaningful. For example if you are installing an OKidata microline 84 to print in CORrespondence mode at 12 characters per inch (12 pitch) you might use a name like OKICOR12. Enter the name of the printer you are defining and hit return.

Now come all the questions. Where do we get all the answers???? Well.... PFCONFIG provides most of them. The rest come from the manual supplied with your printer. You mean you don't have it with you??? What are you waiting for???? GO GET IT!!!!

(continued)

Back so soon???

Now to continue.....

After the name is entered, you are asked for the width of the paper. As you can see, PFCONFIG gives you the answer you need for 8 1/2 " wide paper. But how was this number derived??? Perfect Writer uses "Micas" a metric unit of measure where one inch is equal to 2540 micas. Sooo... with a little math, $8\frac{1}{2} \times 2540 = 21590$. Enter 21590 and hit return. Alas....

Now it wants to know the paper length. For 11 " paper we would need 11×2540 or 27940 micas. Enter 27940 for the paper length and hit return.

Next you'll be asked for the standard height of a character. You could get out your ruler (if you have a mica ruler) or you could use the numbers that PFCONFIG gives you. If you are using 10 pitch use 254, for 12 pitch, use 212. Enter the appropriate number and hit return.

The height of a single spaced line is next. Again PFCONFIG comes through and gives us the numbers for the standard 6 and 8 lines per inch. Enter 423 for 6 lines per inch or 317 for 8 lines per inch.

The smallest horizontal movement for 12 pitch is 212; for 10 pitch it is 254. Enter the correct number for the pitch you are using.

The smallest vertical movement is 423 for 6 lines per inch and 317 for 8 lines per inch. Choose the right number for the line spacing you are using and hit return.

If your printer does not do proportional spacing type N in response to the query for proportional spacing.

The next question regarding online readable output is a bit foggy. The best advice is to respond N. For the tear off enter 0 (zero). For Character movement use option 1.

The answer to each of the next four (4) questions depends entirely on your printer.

So far we've been able to respond without looking anything up in the printer manual. Now you need to look up the following:

- 1) How does your printer respond to a back space character?
- 2) How does your printer respond to a carriage return character?
- 3) How does your printer respond to a form feed character?
- 4) Does your printer require any synchronization protocol?

If you can't find the answers, you might try responding Y to the first three (3) and choosing option 1 for item 4. Now you should be faced with a 5th question. Does your printer require a translation table? Chances are it doesn't, so answer N.

The next group of questions will require specific information about the character or characters needed to :

- 1) set print pitch and/or mode
- 2) reset print pitch and/or mode
- 3) new line string (does your printer need a cr or a cr & lf)
- 4) bold face on characters
- 5) bold face off characters
- 6) italics on characters
- 7) italics off characters

Again, this information needs to be retrieved from your printer manual. For example, the Epson MX80 uses the following character strings:

- 1) CONTROL-P (COMPRESSED CHARACTER WIDTH)
- 2) CONTROL-S (NORMAL CHARACTER WIDTH)
- 3) CONTROL-Q RETURN RETURN
This string requires a CONTROL-Q first to signal that the RETURN is the required character, AND NOT the RETURN to end the entry.
- 4) ESC-G (TO TURN ON DOUBLE STRIKE)
- 5) ESC-H (TO TURN OFF DOUBLE STRIKE)
- 6) ESC-4 (TO TURN ON ITALICS)
- 7) ESC-5 (TO TURN OFF ITALICS)

(continued)

Believe it or not, the configuration is complete and you should be back at the Printer Type Definition Menu. If you choose option 1 (list currently defined Printers) your printer name should appear on the list. If it does not, something went wrong. Probably there were 16 printers defined and you did not delete one before starting the definition process.

What if there was an error made during the definition process or you wish to change the print pitch???

Well... It's quite simple.

At the Printer Definition Menu choose option 3 (Update existing Printer Definition).

This option allows any of the 24 values assigned to a defined printer to be changed individually.

Enter this option now.

You'll be asked for the name of the printer to be updated. Enter it and hit return.

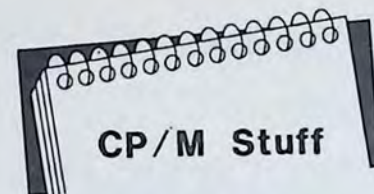
You should see the 24 sets of values displayed. To change any one of these simply type in the number that is next to the value you wish to change (ie type in 18 to change the initialization string). Enter the new value and hit return. That's it!

When you're done making the modifications, use CONTROL-G to return to the Printer Definition Menu.

Now that we've defined our printer, it would be nice to tell Perfect Writer to use it when printing. Choose option 5 (Select the Default Printer Type). PFCONFIG tells you the name of the current default printer and the printer type for console output.

The first question is the name of the printer to use, enter the name you used, and the second question is the console printer, just enter CONSOLE.

Well enough for this newsletter. (I understand they added extra pages just for me this month). If there are enough requests, we'll explore some of the other menu options. So please write. Thanks.



The last time we met, we used the DIR program in CP/M to see all the files on a disk. We saw STAT.COM and COPY.COM but we didn't see DIR. HOW COME!!!?? Well it seems there are some programs that live with CP/M and they are called resident programs. The programs that you DO see listed are called transient programs. That means that they can be moved to another disk, but you can only move resident programs by sysgening a disk (SYSGEN.COM). Let's try another resident program called TYPE.

At the A> prompt type TYPE FAC.BAS and <return>. That's right you're now looking at an SBASIC program called FAC.BAS. Does that mean you can see all your files on the screen? Well, not exactly. Try typing TYPE COPY.COM <return> at the A> prompt. What's happened to all the good stuff we had before? This looks like "garbage". It is! The only readable files are files that are written in "English". Those files are called "ASCII" files. COPY.COM is not written in ASCII, it is written in machine language.

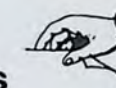
Now let's make use of the TYPE program. First make sure your printer is on line and paper is aligned. At the A> prompt hit <control> P (This toggles the printer ON) then type TYPE FAC.BAS <return>. Your printer should have printed exactly what you see on the screen (including the words TYPE FAC.BAS). When you have finished, make sure that you hit <control> P again. That toggles the printer OFF. You can use this method to get "hard copy" directly from your disk by using our friendly CP/M power.

Try this one on your own. Use the <control> P (ON) and type DIR <return>. There's something you can use!

In our next newsletter, we will discuss a powerful transient program called PIP.COM and why it is probably the most widely used program when working with files and making "back-ups".



Chapter News



Each issue will feature a list of new Kaypro User Group chapters around the country. If you have a chapter you would like to list, send us the name of the person to contact, the address, phone number, and any other information you wish to include.

* * * *

Metropolitan Washington D.C.
Xerox - Kaypro Users' Group

Contact: Harvey West
(703) 425-6986
(301) 654-8180

* * * *

Bay Area Kaypro Users & Programmers
(BAKUP)

Contact: John Brookes
1028 Keith Ave.
Berkely Ca 94708

* * * *

The following people have expressed an interest in meeting with other Kaypro users in their area. Their addresses are listed so that you may contact them directly. We ask that as groups are formed, we are notified in order to keep our listings up to date and complete.

Larry Desch
1333 Carroll
Iowa City, Iowa 52242

Chris Schaeper
3600 North Hills Drive #307
Austin, Texas 78731

Luke Lea
818 Fairmont Ave.
Signal Mtn., Tennessee 37377
(615) 886-1723

Alice Tobin
2013 Midwood Place
Charlotte, North Carolina 28205

START YOUR OWN KUG Chapter

KUG is in the process of producing a booklet for members who would like to start a KUG chapter in their area. This publication will explain how to find other KUGers and how to reach them through the Kaypro Users' Group Listings.

You will also find information on where to meet, how to run meetings, elect officers, run a software library and a newsletter. These, plus many other tips are yours for just a self-addressed stamped [large] envelope. Write to CHAPTERS c/o KUG Box 100 Malverne, NY 11565.

Thanks !!!

Since our last KUGRAM, we have received dozens of disks and scores of letters. We are attempting to answer as many as possible in the newsletter, but many of your questions are rather unusual and require individual responses. So, please be patient, the answers are coming. The disks are being processed and you will be getting them back with the programs we promised as soon as possible.

Your letters of appreciation really made us feel that the KUGRAM is worth the effort. Thanks for your encouragement and please continue to send us the articles and programs so we can continue giving our members the best information available.

Name Your Disk

Your response to our plea for articles and programs on disk has been fantastic. In fact, we are trying to get our software library in shape for your use. However, we need additional time to get them in some kind of order.

It would help us if you would put your name, address and ID number on the label of your disk. Then you can be sure to get it back with all the games and good stuff we promised.

Kaypro Adds MBasic and Games

As of February first, Kay Computers is adding MBASIC programming and 12 popular games to their extensive collection of free software. All other software, including SBASIC, will still be included. The MBASIC disk contains popular games such as Ladder, CatChum, and 10 other public domain games including Startrek, Trade, Chase, and others.

In addition, the company also announced that Kaypro II has passed FCC Class B compliance tests, which qualify the computer for home use.

We are trying to get the games into our library so that they will be available to all our members.

Pac-Man

We now have that much sought after game of excitement, challenge and skill. Of course, the program of which we speak is PAC-MAN. It is in the public domain and can be gotten by sending us \$10.00 to cover costs of diskette and mailer. We will include on the same disk any other games we have in our library.

Back Issues

We have had many requests for back issues of the KUGRAM. Since this is Vol 1 No 2, there is only one back issue. If you would like a copy of the December issue, please send \$2.50 to KUG, Back Issue, at Box 100 Malverne, NY 11565.

Flash !

Just arrived as we go to press, our very own 22 MB hard disk subsystem. We will do a full review in our next newsletter.

Book Review

AN ENJOYABLE INTRODUCTION TO ASSEMBLER AND CPM

Sounds incredible. Since when is learning assembler - or any operating system - enjoyable? In CP/M ASSEMBLY LANGUAGE PROGRAMMING (Prentice-Hall, 1983, \$12.95), Ken Barbier makes the subject enticing. (In fact, because of the skill with which he presents the subject, it looks easier than learning SBASIC from the materials available, and, of course, vastly more useful.)

On page 3, the first page of the Introduction, the author has you to sit at the keyboard and key in a short program in machine language. Then you execute it, and then he shows you what the same program would look like in assembler (shorter). On page 5, he explains his philosophy of learning by doing. By the time you get to page 198, you have written, integrated and tested a bunch of macros, which together make up a useful file-handling utility.

On the way, you have also learned the whys and wherefores of 8080 architecture, how it differs from its imitators and successors, why CP/M does some of the strange things it does, how good programs are constructed, where we got some of our funny jargon. "Ergonomics" is the current buzzword referring to making your computer a friendly place to work. This used to be called human engineering, but that sounds too Frankensteinish. Buzzwords proliferate in the computer world; 'buzzword' is one of them...."

Barbier's book is a tutorial, and he recommends the Intel Programming Guide to the 8080/8085 as a reference to accompany it. Good point. I've been searching for a good introductory book, and Barbier's is the best I've found. If you're a beginner to assembler, as I am, buy it. First.

* *

This review was sent to KUG by:
THOMAS E. COATES of GAITHERSBURG, MD.

I am currently studying Computer Science in college while I serve in the U.S. Air Force. I bought my KAYPRO II primarily as a study tool. I have found that the KAYPRO II is the perfect machine for college students and serious businessmen who want a serious computer with the capabilities and power of much larger machines. I am especially pleased with the flexibility and portability of the unit. I am, however, surprised to find a portable business computer with an extensive software package that doesn't include a smart terminal program as part of the package. Sure, there are optional smart terminal programs available from the dealer, but it just seems funny that NLS didn't include one with the package. This would be especially important to the college students. With a smart terminal program, they can communicate with the school computer on their own time without tying up one of the school terminals. The benefits go on and on.... The same applies to business: imagine the executive awakening in the middle of the night with the solution to a tricky problem on his mind being able to dial up his office computer, enter the transactions and finally get a good night's sleep! Anyway, that's my comment. My question concerns traveling with my KAYPRO II. As a military member, I am subject to overseas assignments. I am presently about to be transferred to a base in Spain and will be taking my KAYPRO II along. I realize that the KAYPRO II was designed to be fully portable, but I believe that I will have to make a change inside the machine in order to use it on the 50 cycle power in Europe.

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Can you please explain how I can make the change myself? I am a fair dillitane in electronics (fix radios and stuff) but I would rather have some guidance before I go messing around inside my KAYPRO II. I would really appreciate it if you could show a diagram of the jumper on the power supply and where it should be connected both for 50 and 60 cycle operation. I don't think that moving the jumper wire (or disconnecting it or connecting it as the case may be) is a difficult task. In fact, I think that probably anyone who owns a KAYPRO II can do the task with ease. I'll wager that there are other KUG members who would also be interested in knowing how to change the power settings as well.

As I stated above, I am about to be transferred to Spain. I am also interested in exploring the use of the KAYPRO II in education. If any other KUG members have interests along this line or if they want to know something about my tour of Spain, I will write again as soon as I get settled and give my address. I would like to know what educational programs are available. I am primarily looking at college level courses but I am also interested in secondary school level courses. If I find that there are few or no courses available for use on the KAYPRO II, I will consider trying my hand at writing some either in SBASIC or PASCAL. If anyone wants to contribute, or ask about what I am up to, keep an eye on the KUGRAM and look for my address. I think the KAYPRO II and the KUG are the best things since sliced bread!

DAVID RUNKLE, TSgt, USAF

KUG is provided as a service to its members for the purpose of fostering the exchange of ideas to enhance their usage of Kaypro Computers. As such, little or no evaluation of the program or products advertised is performed by Kay Computers, in general, and KUG in particular. The prospective user is hereby put on notice that the programs may contain faults the consequences of which Kay Computer in general and KUG in particular cannot be held responsible. The prospective user is, by virtue of obtaining and using these programs, assuming full risk for all consequences.

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KUG's phone service is only used for those members who would like information sent to them but would rather use the phone to save some time. All information, however, will be sent by mail and will not be answered by phone. Members should have their I.D. numbers ready to give to our operators.

FIRST CLASS MAIL

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KAYPRO USERS GROUP
POST OFFICE BOX 100
MALVERNE, N.Y. 11565

VAR ANS=STRING:2

ØLOOP
ANS = " "
PRINT CHR(26)
TEXT Ø,e

OKIDATA PRINT MODE MENU

1. SET CORRESPONDENCE MODE
2. SET DP MODE
3. SET 10 CPI
4. SET 12 CPI
5. SET 17 CPI

6. SET 5 CPI (DOUBLE WIDTH)
7. SET 6 CPI (DOUBLE WIDTH)
8. SET 8.5 CPI (DOUBLE WIDTH)

9. SET 6 LPI
10. SET 8 LPI

11. EXIT

Ø
INPUT " YOUR PLEASURE ?? "; ANS
CASE ANS OF
"1": BEGIN
PRINT #1; CHR(27)+"1"
END

"2": BEGIN
PRINT #1; CHR(27)+"0"
END
"3": BEGIN
PRINT #1; CHR(30)
END
"4": BEGIN
PRINT #1; CHR(29)
END
"5": BEGIN
PRINT #1; CHR(28)
END
"6": BEGIN
PRINT #1; CHR(30)+CHR(31)
END
"7": BEGIN
PRINT #1; CHR(29)+CHR(31)
END
"8": BEGIN
PRINT #1; CHR(28)+CHR(31)
END
"9": BEGIN
PRINT #1; CHR(27)+"6"
END
"10": BEGIN
PRINT #1; CHR(27)+"8"
END
"11": CALL Ø
END
GOTO ØLOOP