kµgram®

VOL. 2 NO. 2

Official Newsletter of the KAYPRO USERS' GROUP

ALL KUG SYSTEMS ARE GO (!GO PCS 25)

PCS 25 is our newly appointed page number on CompuServe.

After 18 months, KUG enters a NEW undeveloped area of KUGLAND, the land of electronic telecomunications through the services of CompuServe.

If you have not used a modem and are not familiar with reaching the KUG Bulletin Board, this may be just the thing for you.

In order to get on the service, you must have a CompuServe starter kit which includes a user ID number and a password. This starter kit is available from your dealer or from KUG ($35.00). You can also use the BCN disk, which allows you to get on the system and then bills you direct. (BCN Tel. 800-446-6255.) You will also need communication software such as MODEM795, available from the KUG library, and a modem.

To get on the system, follow the same instructions listed in Volume 1 Number 2 of the KUGRAM. The only difference will be the phone number. CompuServe will probably have an access phone number much closer to home.

If you are using Modem795, type T FILENAME and switch your modem from talk to data when you hear the data tone. (This is not necessary with a "smart" modem.) At the word CONNECT, hit <control> C. You will then be asked for your CompuServe User ID number. After you have entered it, you will be asked for your password. As you type it, it will not appear (echo) on the screen. During this time you can use a <control> Y to start saving the data or <control> P to send it to the printer.

If your password is accepted, you will see the following:

```
CompuServe Information Service

11:26        Tuesday  06-Mar-84


CompuServe                  Page CIS-1

CompuServe Information Service

1 Home Services
2 Business & Financial
3 Personal Computing
4 Services for Professionals

5 User Information
6 Index

Enter your selection number,
or H for more information.

!
```

At this time you can select a number and go through the menus or you can GO PCS 25. If you GO PCS 25, you will be welcomed by the Kaypro User Group and given some information. If you need help just type H.

When you are finished, be sure to type OFF. You will then be given your connect time and signed off.

Then type <control> E and you will be back to the modem program. If you are using the <control> Y, you will be reminded that you have data in the buffer. If you want to save it, type WRT. To go back to CP/M type CPM.

Won't you join us in reaching the vast regions of KUGLAND ? .....

Box 100

Dear KUG,

I am using the telecommunications software from Business Computer Network in Wisconsin, primarily to access Compuserve. It functions well and has many advantages, but it has one disadvantage: you can access only those networks provided for by the software, and can contact only other Kaypro users who are also BCN customers.

Since I would like to contact other users (not necessarily through BCN) and other databases and bulletin boards, I have started looking for some (inexpensive) software that will function with Signalman Mark VII, which is an auto-dial/auto-answer modem.

I have seen several references in your newsletter to alternative long distance services, such as MCI, that are supposed to be less expensive than AT&T. I live in upstate New York, and have to call long distance to Albany or Burlington, Vermont whenever I go on-line. I would be grateful if anyone who has experience with some of these long distance services would tell me how to get in touch with them.

Anyone with comments can write me at the address below, or leave a letter with EMAIL on Compuserve, or leave a message on either the Literary SIG bulletin board or the CBer's bulletin board. I log on to Compuserve usually every Saturday afternoon or evening. If you leave a message on Compuserve, and you have a permanent I.D. number with them, please leave that also.

Dale Ducatte
RR#1 Box 96
Chazy Lake Road
Saranac, NY 12981
Compuserve ID# 72105,622

* * *

Dear KUG,

One by one the problems that I've had with my Kaypro II and Kaypro 4 have turned up in the pages of Kugram. Some I had already worked out for myself, and some I hadn't. The trick of tearing apart the "Date" template in Perfect Filer into its component "Logical Fields" (explained by Bill Hall in Vol. 1, No. 6) is an example of the former. The latter are too numerous to list.

Here's a trick for getting the Kaypro 4 to write to a disk in II format. Start with a disk formatted for the Kaypro II and containing PIP.COM. The Kaypro 4 will write to this disk if it is in drive B: and if PIP is called from that disk.

A> B:PIP
*B:=A:WHATEVER.FIL (Typed in response to the * prompt.)

I had hoped that the UNIFORM program would allow my machines to talk to each other. But, as other users have noted, the program wasn't supplied with the computers. The technique above solves the problem for me.

Dave Satchell
600 York
Manitowoc, WI 54220

* * *

Dear KUG,

I was one of the first persons to use WordStar on the Kaypro, and found that you can make WordStar files compatible with the Perfect series by using Pip with the [Z] option. WordStar fiddles with the eighth bit, and the Perfect series doesn't like it. The [Z] option zeroes it and it runs as it should. Go into pip, and then use the form

*newfile.txt=oldfile.txt[Z]

and it will work just fine. The Word + will work with either type of word processor.

Karl L. Sandwell-Weiss
PSC Box 5644
APO San Francisco, CA 96366

Dear Kuggers,

Mr. William R. Hall, in KUGRAM Volume 1, No. 6, points out that Perfect Filer is not able to sort information using the Date Template. In addition to this problem there is still another limitation in the Perfect Filer program when one uses the Date Template.

It is not yet possible to use the Date Template to enter a date beyond December 31, 1999. The program is set up so that it simply will not accept dates beyond the year 1999. In using the filer for financial records, this can be a serious limitation.

There is a relatively simple way of overcoming both these deficiencies.

Do not use the Date Template at all. One can accomplish the same result by setting up a numeric data field and express the date desired by either six or eight digits.

If the year, month, and day of the month is required, use eight digits in the following order:

Year--four digits
Month--two digits
Day--two digits

For example, January 2, 1984 would be expressed as 19840102. If only the year and month are required, the last two digits are not used.

By setting up the sequence of year, month, day, sorting in either ascending or descending order is easily accomplished by routine use of the program.

Philip B. Dalton
263 Cliffside Drive
Torrington, CT 06790

* * *

Dear KUG,

I appreciate KUGRAM's keeping things simple for us beginners. Even though twenty years ago I used to program the IBM giants --often in machine language-- the technology has advanced so rapidly that I'm often lost in the simplest of procedures.

A note, while I'm writing. It's a simple procedure, though one you want to do carefully, to move the brightness control and reset button to the front of your computer (II's and 4's; I don't know about 10's). For the brightness control, one need only solder in a three-wire (22 gauge, stranded) extension of approximately 28 inches; for the reset button, no extension is necessary. Put duct tape over both the inside and the outside of the front panel where you'll drill the new placement holes for the controls (to catch filings), lightly center punch your mark, drill through with a small (3/16" or 1/4") pilot drill followed by a 3/8" bit. To protect disk drives from any dust or filings, close the doors and cover with masking tape.

It's so handy to be able to turn the screen off, either when I'm free writing a first draft and don't want to be distracted by the compulsion to correct, or when I have to leave the computer for a while and don't want the screen's phosphorescence burning unnecessarily.

Bill Aull
3003 W. William
Champaign, IL 61820

* * *

Dear KUG,

When obtaining, consecutively, the status of more than one disc, using CP/M (STAT B:*.*), the "Bytes Remaining..." line remains unchanged. To avoid this, do a warm boot (control-C) between discs.

Incidentally, I keep a status print-out, with each disc in its regular paper sleeve, in a re-closable, clear plastic bag. The print-out usually occupies no more than the top left quarter of 8-1/2" x 11" paper. Therefore, two foldings quickly produce a slip-in label. This provides a simple way to to keep track of disc contents and enhance disc protection.

Such plastic bags of the right size seem to be not yet commercially available. I made my own by shortening 6" x 9" bags, using a soldering gun as a sealer-cutter.

Ted Hogg
245 9th Avenue
San Francisco, CA 94118

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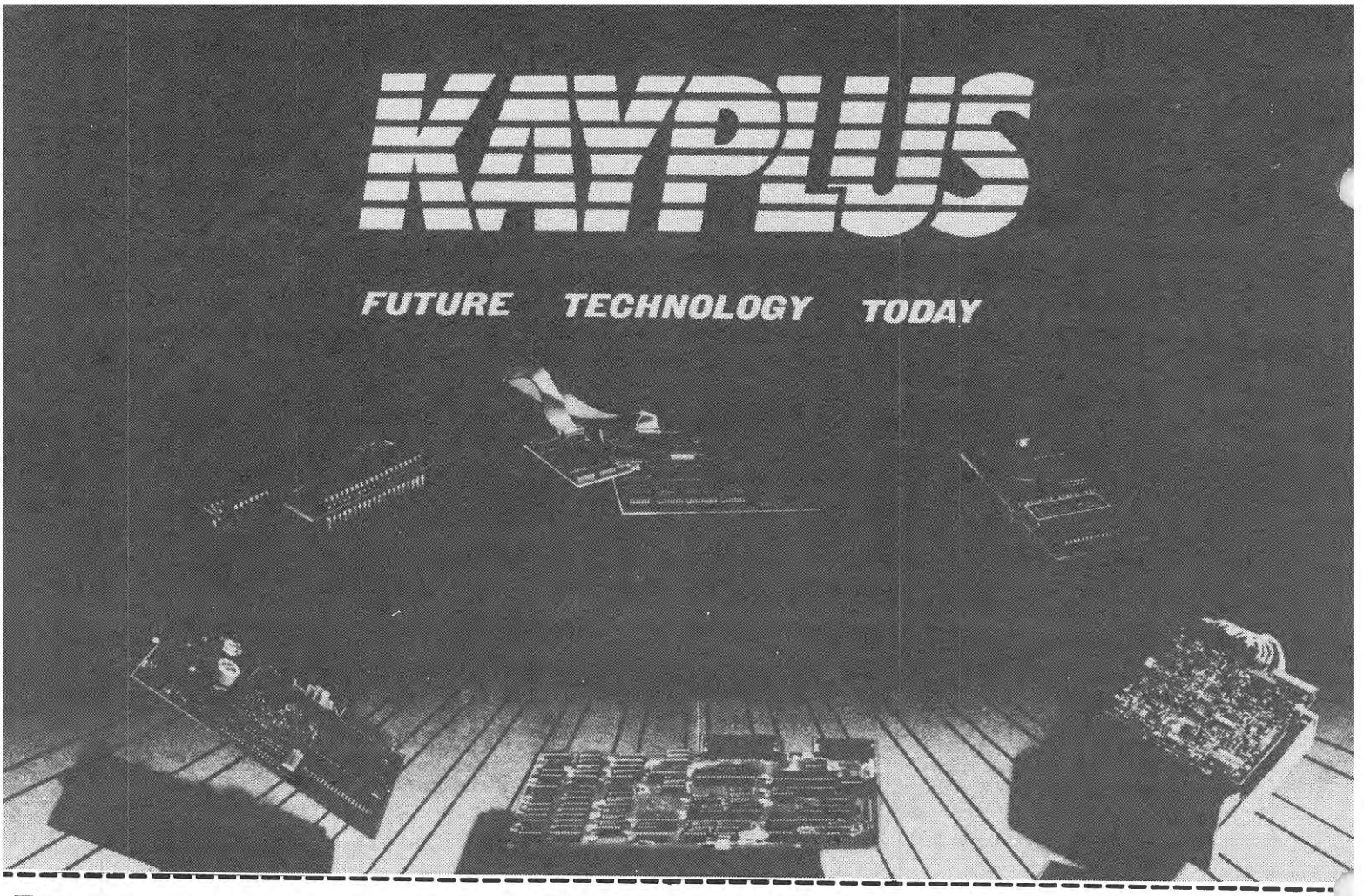

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KAYPRO 4 upgrade kit consists of a simple EPROM change and about 15 minutes to complete the installation. This will upgrade your standard KAYPRO II (which is 200KB capacity per drive) to 400 KB capacity per drive. Price $118.00

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*TEAC 55F diskette drives
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☐ **Multi-Fonts Video Graphics**

This field installable hardware peripheral allows for high resolution (512 by 256) bit mapped graphics on the KAYPRO II. Firmware for drawing line vectors, arcs, circles, rectangles and point markers as well as down line loadable character sets are standard features. Application programs may draw patterned lines, filling rectangles with a pattern, blanking the display either dark or light and complementing all or portions of the display.
Price **$612.00**

☐ **CPU Hop Up Kit**

The Hop Up Kit will increase your KAYPRO's calculation speed up to 60%. In electronic language this translates into an increase from the standard 2.5 MHz to a 5 MHz. Price $118.00

☐ **External Video Monitor Adapter**

Our video monitor adapter allows the attachment of an external monitor to the KAYPRO computer system. Extremely useful during presentations and training sessions. Price $118.00

☐ **Built-In 300 or 1200 Modem**

This kit mounts inside the KAYPRO and is Hayes Smartmoden compatible (Bell 103/212A). Auto-dial, auto-answer with automatic line speed detection (0-300, 1200 baud) are all standard features. Kit comes with software. Price **$499.00 ea.**

☐ **External Drives C & D**

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☐ **Fancy Font Typesetting System**

This product is unique in that it enables the KAYPRO computer when attached to an EPSON printer to print multiple fonts (different type styles) of varying sizes. It includes a font editor that will allow the creation of virtually any font or logo.
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*Kits may be purchased with or without disk drives.

Dear KUG,

Let me share my enthusiasm for a book that has for the first time unraveled for me some mysteries of programming in general and data-file programming in particular.

Somebody pointed out to me that the Basic language for the TRS-80 I and III is M-Basic and that database programs written for this system might be applicable for M-Basic on the Kaypro. This led me to my local Radio Shack, where I picked up "TRS-80 Data File Programming" by Leroy Finkel and Jerald R. Brown.

It is the best book on programming I have seen. The concise review of Basic statements at the beginning of the book opened my eyes to the rational and creative use of statements and commands I had been using only mechanically. Best of all, the authors put it all together conceptually, in a way that gives you a sense of how the elements of a program work and interact. If you have M-Basic, this book will be a great help no matter what kind of program you try to develop.

Irvin Block
2 Carpenter Ave.
Sea Cliff, NY 11579

* * *

Dear KUG,

I live in an area with a very humid, warm climate. The city faces the Atlantic Ocean, and the salt air causes anything that is steel to eventually rust. Has anyone had experience with a Kaypro case rusting?

Also, is touch up paint available for the Kaypro case? No matter how careful I am, the paint wears off the case where the keyboard rubs against the top of the case during removal and replacement.

I find the KUGRAM extremely useful in helping me with the operation of my Kaypro II. Keep the good information coming!

A. Lee Shapleigh
Advertising Service Agency
P.O. Box 267
Charleston, SC 29402

Dear KUG,

Trudy Springer wrote about spacing problems with Perfect Formatter--she was trying to control the number of spaces after periods. One solution is to create an invisible character. You have to play around in pfconfig on the installation disc:

1. Update an existing printer definition to use a character translation table (question 17).

2. Create a character translation table in which one useless key (I used the horizontal squiggle, #126) translates into a space-bar blank. (All the other keys translate to themselves.)

3. After you've exited pfconfig, erase the "pf.dat" off a copy of Perfect Writer and use "pip" to copy "pf.dat" from the installation disc to your Perfect Writer disk.

4. Use the "squiggle" every time you want to make sure how many spaces you get after a period. At the end of a sentence which ends with a capitalized word, number, or quotation marks, for instance, you need to leave two squiggles between the period and the next word (no other spaces). The formatter reads the squiggles as characters (and you see them on the screen), so it won't mess with them. You have conquered the program's inability to differentiate between a period and a dot.

5. If you want to get fancy, you can set one of the numeric keypad numbers to equal the squiggle, so you don't have to use the shift.

The only problems I've encountered are that the squiggles glue words together, so the formatter sees the two words and the squiggles between them as one long word, which can produce unevenly long lines of print.

Now if they'd just change the "quotation" environment so it didn't indent every quotation...

Brock Dethier
Packers Falls Road
Newmarket, NH 03857

Dear KUG,

Do any of you Kuggers out there know of software that will organize lesson plans? The trouble is that as soon as I decide just what each class is going to be doing for the next couple of weeks, I can be sure that a snow day or assembly will come along to mess everything up. (The best laid schemes...). The program must recognize each section and "bump" that section's lesson (and subsequent lessons) forward to the neaxt class period. This seems like a perfect job for the Kaypro, but it's got me buffaloed.

David C. Kennedy
223 North Broad Street
Waynesboro, PA 17268

* * *

Dear Kug:

An item of interest to Kaypro users who, like me, are using an Okidata Microline 92 printer: Such users will have found some problems in configuring Perfect Writer to their printers so that all its features can be used properly, including super and subscripting and continuous underlining. Okidata is preparing information leaflets on the problem of configuring the Microline 92 and 93 printers to Perfect Writer and Perfect Calc. The preliminary versions which I have seen do not solve all the problems, but they will doubtlessly be a great help to a new user. They can be obtained directly from Okidata.

John Norton
University of Pittsburgh
Center for Philosophy of Science
613 Thackeray Hall
Pittsburgh, PA 15260

* * *

Dear KUG,

A point of interest: I recently purchased a copy of Nevada Cobol from Ellis Computing. Although it is not a sophisticated version of Cobol, it is adequate for small programs. For the money it is a STEAL.

Thomas R. Cooper
20 Chestnut St.
Mahwah, NJ 07430

Dear KUG,

Accumulating a number from one cell to another, with spread sheet programs, has frequently been a problem for me. This weekend, I discovered a reasonable means to avoid this problem with Perfect Calc.

In general:

column c = primary number
column d = accumulation of column c,
    formula: if (c<>f,c+d,d)
column f or z, just so it clears the
    printout, = column c.

To avoid printing column f you'll need to use the print region commands. You'll see that column d will accumulate numbers from column c only when there is a change in column c. If you make an entry mistake in column c, type the correct negative number in column c to return column d to the original value. Then type in the correct value in column c.

In order to compare the calculating speeds of MBasic and SBasic, I ran the following program in both languages. The results were surprising, since MBasic is an interpreter and SBasic is compiled.

This program will find a binomial coefficient. The MBasic version is listed. The body of the SBasic version is identical.

PROGRAM.

```
10 'BINOMCO
20 'BINOMIAL COEFFICIENT SOLUTION
30 T=1
40 INPUT "NO. IN SET "; N
50 INPUT "NO. IN SUBSET ";R
60 FOR I=N TO N+1-R STEP -1
70 T=T*I/R
80 IF R>=2 THEN R=R+1 ELSE R=1
90 NEXT
100 PRINT: PRINT INT(T): PRINT
110 GOTO 30
```

Results: for N=500 and R=480 the SBasic time was ~ 13 seconds and the MBasic time was ~ 7.75 seconds, for N=300 and R=275 the SBasic time was ~ 8 seconds and the MBasic time was ~ 4.25 seconds.

Dave Miller
11422 SE Alder
Portland, OR 97216

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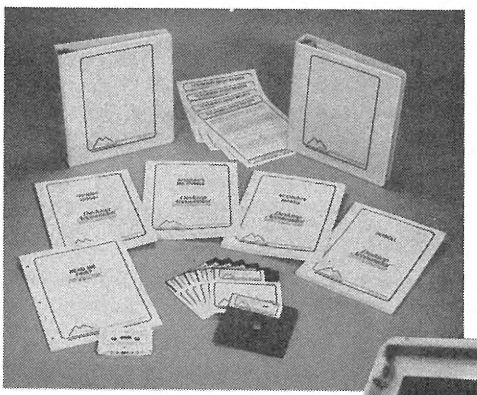

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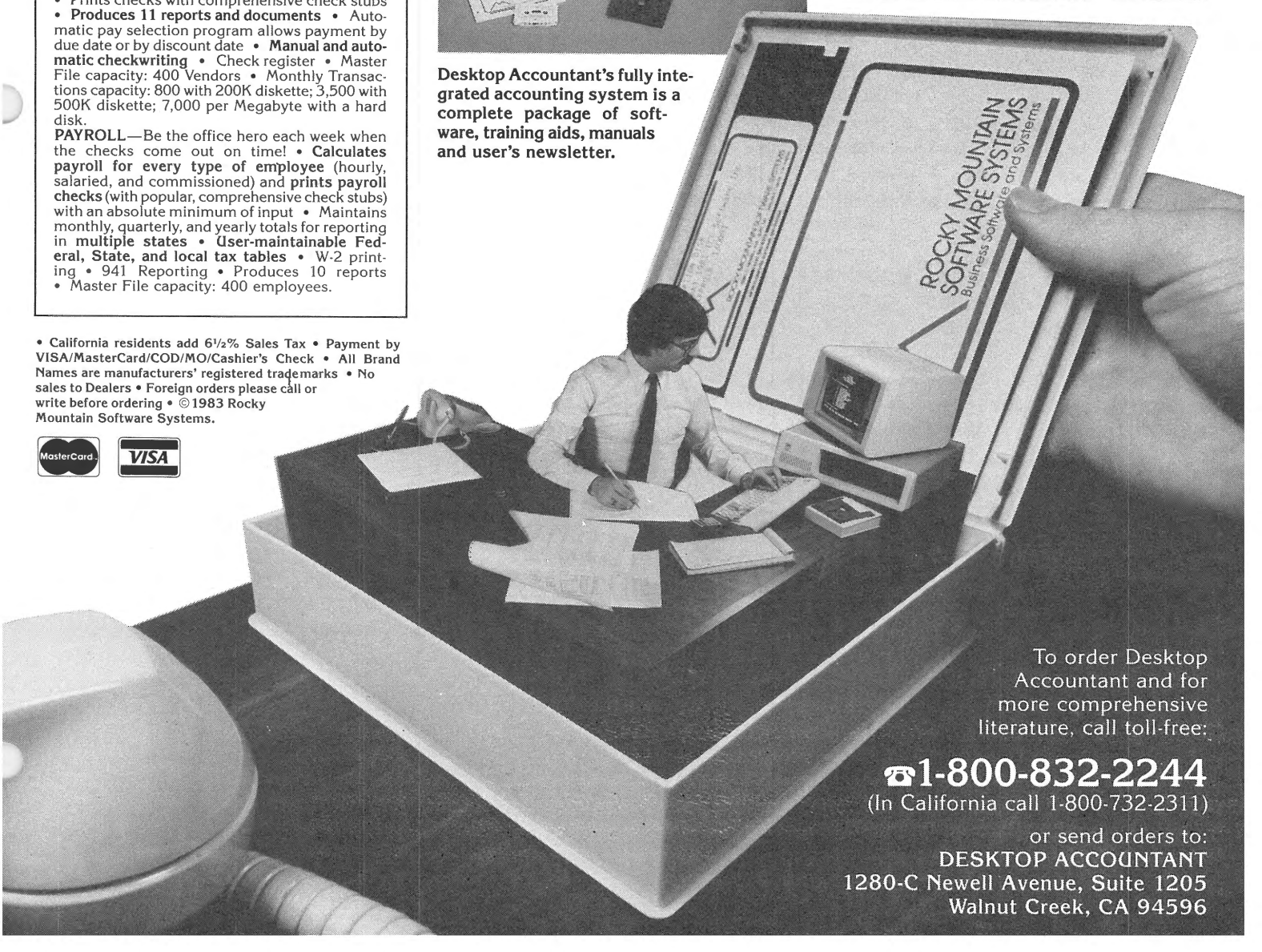

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Repairing Drive Door Hinge

Coincidentally, the day I received the issue of BYTE magazine with the article entitled "Buddy, Can You Spare A Door Latch?" my A-drive door developed the identical ailment. After reading the article I decided there must be a better way.

A quick investigation, without removing the drive, showed that the two plastic hinge pins had simply "popped out" of the clips molded in the front of the disk-clamp bar. They could be snapped back in, but closing the door, which applies a slight spring pressure against the pins, caused them to "pop out" again.

Replacing the pins with a single metal pin appeared to be the best solution. A measurement revealed that the diameter of an 8-penny finish nail was only .003" oversize and long enough.

I cut the nail to 1.5" long, bevelling the ends slightly. Using 300-grit Wet-or-Dry sandpaper, I polished the die marks from the nail, reducing the diameter slightly. A #38 twist drill, held in the fingers, was used to ream the door pivot bosses.

The nail, now a hinge pin, was slipped through the two door pivot bosses and snapped into the disk-clamp bar clips.

On my drive the pin would not stay in the clips but "popped out" as the plastic pin had; however, it spanned the full width of the disk-clamp bar and a light coating of epoxy cement made a "permanent fix." If necessary, the epoxy could be cut away but I can't forsee the need.

While I was at it I made two pins, just in case!

Cyrus N. Wells
1405 Lucilee Street
Las Vegas, NV 89101

TIME to RENEW ?

What P. C. Mag Left Out

I've had excellent results in combining Perfect Writer with an integrated word processing-list processing-spreadsheet program called T/Maker III. PORTABLE COMPUTER MAGAZINE commissioned me to do an article on this for February. They then decided they wanted to rush this into their January issue. To squeeze it in, two feature-by-feature charts were cut. Too bad, because those charts represented the heart of the article. They served a dual purpose: 1. to illustrate T/Maker's unique "tally" feature, and 2. to show the dynamic effect of the "merger" on both programs.

Too bad also because in trying to incorporate some of the chart features into the body of the article, the editors distorted my intent and attributed statements to me that I never made. For example: "its (Perfect Writer) capabilities are very limited as a formatter.....it doesn't do bold facing or underlining."

I'll be glad to send a copy of the "unexpurgated" article to anyone who sends me $1 to cover my copying and mailing costs.

Elyse Sommer
P.O. Box E
Woodmere, L.I., NY 11598

Clergy KUG

I wrote a letter about configuring the Daisywriter to PW in KUGRAM Issue No. 5, and have since received letters from clergy all over. Several have suggested that I start a clergy users' group, so we clerics can share concerns and applications.

Clergy interested in forming a SIG are invited to write me, and I'll be a coordinator for Kaypro Clergy users.

Rev. Donald Marshall
13 Lisa Drive
Greenville, SC 29615

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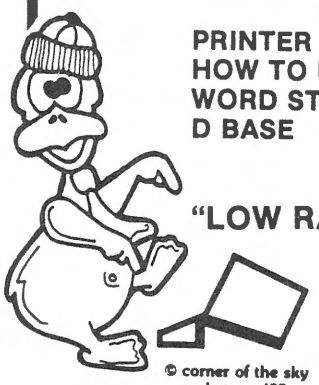

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- ★ Variable-size swap file, up to entire disk.
- ★ Built-in directory listing.
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- ★ Eliminates PW editor bugs—7 in v1.03; 6 in v1.20.
- ★★ Change user number (v1.20).
- ★★ Display page number (v1.20).

CP/M 2.2E

Enhancements for the CP/M operating system

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- ★★ MODEM9 telecommunications program

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The Backgrounder is a trademark of Plu*Perfect Systems. An earlier version was called Plu*Perfect Keypad/Helper.

★★ = new features. CP/M 2.2E for the KayPro 10 is in final testing. Write for information.

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***plu·perfect** *adj* : superlative*

RS232 Pins

For Mr. William Meier, some comments about RS232 serial port pin assignments: Even though one can usually get away with using only three out of the twenty-five pins on a standard serial connector, most of them do have a formal assignment. Herewith, a short synopsis:

#1- Protective chassis ground
#2- Transmit data (leaving your computer)
#3- Receive data (going into your computer)
#4- Request to send (output, Kaypro asks if the other device is ready)
#5- Clear to send (input, other device says it wants to receive)
#6- Data set ready (usually an input line, but connected to +5 volts on the Kaypro)
#7- Signal ground
#8- Data carrier detect (input to Kaypro, modem says "I hear that obnoxious tone..")
#9, #10- Reserved for testing (not used on Kaypro)
#11- Unassigned
#12 through #19- A bunch of secondary lines (not used on the Kaypro, or any other self-respecting microcomputer for that matter).
#20- Data terminal ready (output, tells other device that the Kaypro wants to do something)
#21- Signal quality detector (not used)
#22- Ring indicator (for sophisticated modems, but not used on the Kaypro)
#23 through #25- Even weirder stuff not used on Kaypro.

The only pins supported on the Kaypro (and most other small computers) are numbers 1, 2, 3, 4, 5, 6, 7, 8, and 20. For a large number of applications, you'll need only 7 (or 1), 2, and 3. Some serial printers require hardware handshaking through pin 5. Readers who are interested in more of the grisly details should get a copy of Data Communications for Microcomputers by Nichols, Nichols, and Musson (1982, McGraw-Hill), an excellent guide to talking to the outside world with your machine.

D. F. Voss
5700 N. 10th Rd. #8
Arlington, VA 22205

Sheet Feeder Config

I recently installed a Brother HR15 daisy wheel printer with an automatic cut sheet feeder.

The following applies only if a sheet feeder or no feeder at all is used. If a tractor feed is fitted, the printer can simply be run as a Diablo without any modification.

1. Despite the implication of the Brother literature, the sheet feeder works perfectly well with legal size paper (14" X 8 1/2"). To use legal as well as letter size paper, however, the DIP switches of the HR15 must be reset for 14 inch paper. For letters the STYLE command (paperlength 11 inches) works with the switches reset, but the same is not true of the command (paperlength 14) with the factory setting for 11 inch paper.

2. Select the Diablo 10 or 12 (or PS, depending on your daisy wheel) as the default, but change the printer definition to specify a paper height of 35560 micas.

3. The major problem is allowing for the one inch top margin that the sheet feeder sets when loading, which for mechanical reasons cannot be changed, and which PW must be told about. The solution is to set the bottom margin PF.DAT default parameter to 3810 micas, and both the top margin and header spacing parameters (if you do not usually use a page heading) to 0. This yields a proper top margin and standard pagefooting and bottom margin. The top margin can be increased, but not decreased. The same is true of the bottom margin, but if the pagefooting is omitted, an extra line can be squeezed on the page by changing the footer spacing by the STYLE command (footerspacing 1 line).

4. Finally, to allow for the offset of the sheet feeder, the PF.DAT default parameters for the left and right margins must be reset. For 1 inch margins the settings are: left, 3810; right, 1270 micas.

Briggs L. Twyman
5414 43rd St.
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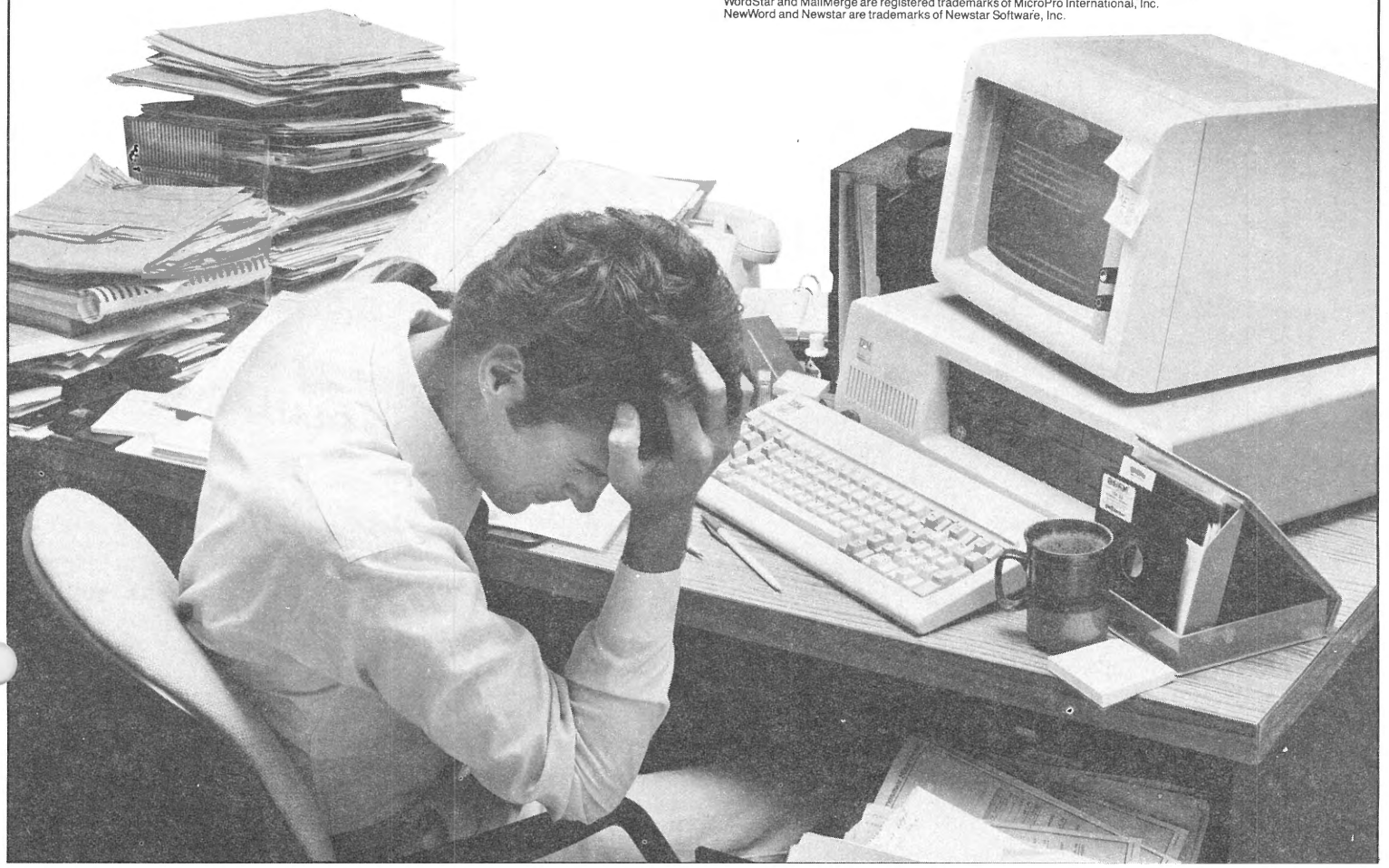

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"No Kaypro should be purchased without this manual. It saves months of experimentation."

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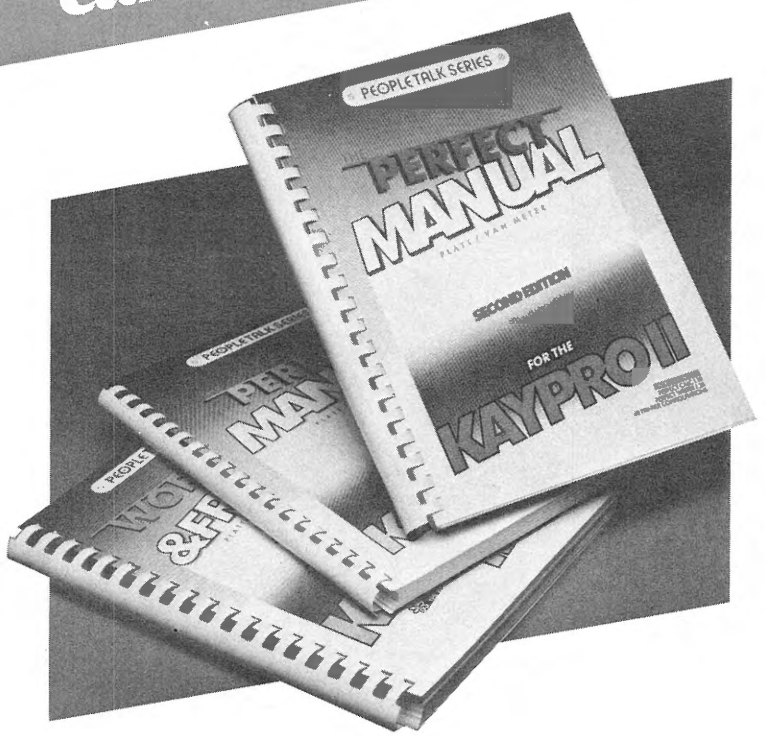
Grayling, MI.



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More Configs Needed

Any information about configuring the following printers for Perfect Writer or for WordStar would be appreciated by those members who requested them.

Anderson Jacobson 833 and 831
Brother Correctonic 50
Brother EM-2 (Electronic Typewriter)
Brother HR-15 (Daisy Wheel)
C. Itoh FP1500-25R; 1550; 1550P
C. Itoh Printmaster F-10
Delta 10
Diablo Hytype II, Model 1345
Diablo 630 for WordStar
DTC 380Z
Epson FX-80; RX-80; RX-100
Facit 8100
Gemini 13 and 15
Leading Edge GX-100
NEC Spinwriter 3510 and 3530
Mannesman Spirit 80
Mannesman Tally 180L
Malibu 165
MP 150G
Okidata 83A and M80
Olivetti ET 221
Olivetti Praxis 35 (Bytewriter)
Olympia Electronic Compact
Olympia ESW 100 RO and 102
PMC DMP-85 (esp. for prop. spacing)
Prowriter 8515
Radio Shack Daisy Wheel II
Royal Alpha 2001
Sanyo PR 5500
Star Micronics STX-80
TEC Starwriter F-10
TRS VIII
TRS-80 DMP-120 and -400
TT-43

If we have not yet replied to your request, it means that we do not have that particular configuration in our files. We will mail it to you as soon as it comes in. Reminder: send in a self-addressed stamped #10 envelope with your request.

Juki

I would like to know how to backspace (BS) my Juki 6100 printer to over print the last character with diacritical marks. How do I program Perfect Writer?

Chris Galacgac
P. O. Box 1243
Hilo, HI 96721-1243

Install Epson with Select

The SELECT update from KUG lists only the Epson MX-80 printer. When this printer is installed on SELECT you find you cannot take advantage of the superscript, the subscript, and the overstrike enhancements of the SELECT Update. The problem is this printer option will not take advantage of the Graftrax features.

I contacted Select Information Systems and was told to install the MX-100 printer driver which is on the standard 8" SELECT (v 3.00) distribution disk. When I looked at the printer options menu which came with the SELECT Update I did not have the MX-100 option. When I did a CP/M STAT *.* on my updated installation disk I found a file PSMX13.SIS which is the driver for the MX-100 printer. The file PSMX83.SIS is the driver for the MX-80 printer. Select Technical Support had no sugestion on how to access the MX-100 driver with my version of the installation disk.

My solution was to use the CP/M resident commands ERA and REN. I placed my WORKING COPY of the installation disk in the A: drive and typed ERA PSMX83.SIS to erase the file. I then renamed the file containing the MX-100 driver PSMX83.SIS. I did this by typing

REN PSMX83.SIS=PSMX13.SIS

Now when I use the installation disk and select the Epson MX-80 printer I actually install the MX-100 printer which includes the Graftrax functions.

When I looked at the SELINST.FIL on the installation disk - by using CP/M's TYPE command - I found five additional printer drivers that are not available from the installation printer menu. I don't know what they are, but anyone having a problem installing a printer could use the ERA/REN approach to access them.

If anyone has any questions they may call me at home: (301) 577-5078 or work: (301) 386-0170.

William A. Mayhew, Jr.
9207 Tuckerman Street
Seabrook, MD 20706

Problem Solver

One problem with PerfectCalc is that you cannot use the COPY ENTRY (CTRL--W) or COPY REGION (ESC...w) command to transfer numbers permanently from one spreadsheet to another if the numbers depend upon formulas. Here is a procedure that overcomes this problem.

Step 1. On the original spreadsheet copy the numbers to a column which is 19 characters wide and displays the numbers in scientific notation.

Step 2. Using the PRINT REGION command (CTRL--X, p), write this column of numbers to a separate Perfect Writer document file on a disk.

Step 3. Using the accompanying MBasic program (PCGOTO2.BAS), convert the Perfect Writer document file into a new PerfectCalc spreadsheet data file.

PCGOTO2.BAS allows you to designate up to four columns where the numbers will appear on the new PerfectCalc spreadsheet. In Step 1 all numbers to be copied should be listed in one column without any intervening blank lines. For example, if the original spreadsheet has closing balances on line 60 of columns b, c, d and e that you would like to appear as opening balances in these same columns on the new spreadsheet, in Step 1 you could use simple formulas like f60=b60, f61=c60, f62=d60 and f63=e60 to list them in column f preparatory to copying them to a document file in Step 2. Of course, this same approach can be used to copy numbers from more that four columns and to distribute them to more that four columns on the new spreadsheet. If several numbers are to appear in the same column on the new spreadsheet, they should be grouped together in Step 1.

This procedure is a big help if you are keeping accounts or doing analysis and want to start a new spreadsheet using several numbers from your previous calculations. It lets you maintain the full precision of the original calculations without the bother of copying each number manually.

Ernie Graves
2328 South Nash Street
Arlington, VA 22202

PCGOTO2.BAS Program

by Ernie Graves

```
240 INPUT "File to be converted"; F1$
244 INPUT "Data file to be created"; F2$
248 PRINT "Designate up to 4 columns:"
252 INPUT; C1$
254 INPUT; C2$
256 INPUT; C3$
258 INPUT; C4$
260 PRINT: PRINT
262 PRINT "Top line in each column:"
266 INPUT; U
268 INPUT; V
270 INPUT; W
272 INPUT; X
274 PRINT: PRINT
276 PRINT "No. of lines in each column:"
280 INPUT; M
282 INPUT; N
284 INPUT; O
286 INPUT; P
288 PRINT: PRINT
290 PRINT "Ready to run (Y/N)? ";
292 A2$=INKEY$: IF A2$="" GOTO 292
294 PRINT A2$
296 IF A2$="Y" GOTO 300 ELSE 298
298 IF A2$="y" GOTO 300 ELSE 240
300 OPEN "I",1,F1$
320 OPEN "O",2,F2$
340 PRINT "Listing from new PC file:"
410 C$=C1$: T=U: L=M: GOSUB 500
420 C$=C2$: T=V: L=N: GOSUB 500
430 C$=C3$: T=W: L=O: GOSUB 500
440 C$=C4$: T=X: L=P: GOSUB 500
450 GOTO 700
500 FOR I=T TO T+L-1
520 IF I<10 THEN L$="#"
525 IF I>9 THEN L$="##"
530 IF I>99 THEN L$="###"
540 IF EOF(1) GOTO 700
545 INPUT#1,N$
555 PRINT ">";C$;
560 PRINT USING L$;I;
565 PRINT ":";N$
610 PRINT#2,">";C$;
620 PRINT#2,USING L$;I;
630 PRINT#2,":";N$
640 NEXT
650 RETURN
700 G$=">a1:"
720 PRINT G$
730 PRINT#2,G$
800 END
```

* * *

Swap File ..File

The program for reconfiguring Perfect Writer's swap file has proven most valuable. I like to revise chapters on the split screen, a method that can really eat up swap space, so I was delighted to learn how to create a disk with a 152K swap file.

Using the information gleaned from that program, I have written an S-BASIC program which recovers text from the swap file. This utility can come in handy in a variety of circumstances. Suppose, for example, there is a power surge and the keyboard goes dead, or you try to write and discover there is not enough room on the disk for it, or you try to write the file and get a series of bad disk messages. With other word processors the text is irrevocably lost, since it exists only in the computer's memory. Perfect Writer's virtual memory, however, means that the text has been stored in the swap file. If you could crack open that file, you could recover text that had seemed lost forever.

The program below retrieves the text from the swap file and puts it in a new file, titled B:SWAP.MSS, which can be read just like any other file with Perfect Writer. Paging through the file is much like rooting through your trash can for a vital piece of paper accidentally thrown away, but somewhere in it is the text you were just working on. When you locate what you want, split the screen and transfer the needed material to a new file.

Usually the material you want is up at the front of the swap file. There is no point in storing everything in the swap, so after every 10K the user is asked if he wishes to continue creating the file. In order to help decide, the contents of the swap file appear on the screen as they are being written on the disk.

Not everything in the swap file is transferred to B:SWAP.MSS. This is chiefly to bypass the nulls which would pad the .mss file to no purpose and to evade the C—Z markers which, if included, would be mistaken for an end-of-file marker.

To make the program run: (1) place the disk with the swap file in disk drive A; (2) place a disk with at least 64K worth of blank space in disk drive B.

PROGRAM TO RETRIEVE TEXT FROM SWAP FILE

```
var counter1 = real
var counter2 = integer
var abyte = char
files D,D,S[1],S[1]
create "B:SWAP.MSS"
open #2; "A:PW.SWP"
open #3; "B:SWAP.MSS"
print "Bypassing configuration data"
for counter1 = 1 to 1024
       read #2;abyte
       next
print "Creating file B:SWAP.MSS"
for counter1 = 1 to 64
for counter2 = 1 to 1024
       read #2;abyte
if abyte > chr(31) or abyte =
        chr(10) or abyte = chr(13) then
begin
print abyte;
write #3; abyte
end
next
if counter1/10 = int(counter1/10)
then
begin
print chr(26)
print "B:SWAP.MSS contains ";counter1;"K"
print "If you wish to stop, type 'y'"
print "Else type any other character"
input3 abyte
if abyte='y' or abyte='Y' then 0out
end
else begin
print
print "***  ";counter1;"K"
end
next
0out close #3
end
```

Edmund Blair Bolles
414 Amsterdam Avenue, #4N
New York, NY 10024

* * *

PRINTER CONFIGS NEEDED

See Page 13

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

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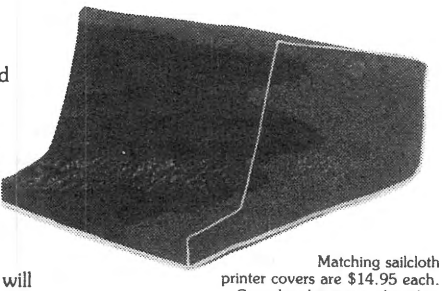
Introducing A Classic Form Fitting Kaypro Cover

Photo: Form fitting Kaypro cover.



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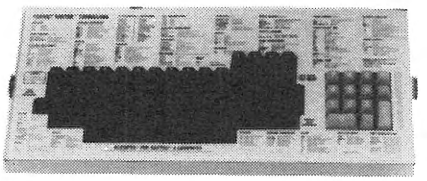

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Enemies of Kaypro ... Spikes, Surges, and Noise!

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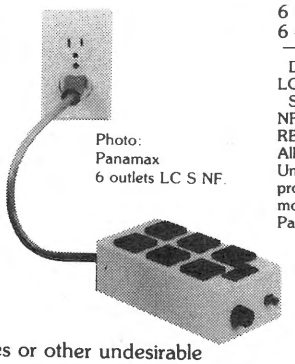

Photo: Panamax 6 outlets LC S NF.

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

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

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D: Connects direct to grounded wall jack.
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P.C. Magazine, March 1983

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Dysan DSDD Kaypro IV & 10		$ 39.95
MANNESMANN TALLY		
Spirit Printer	$399.00	$349.00
PANAMAX		
PowerMax 200 Watt Battery Back-up	$459.00	$379.00
Bookware		
PEOPLETALK ASSOC		
Perfect Manual for Kaypro II	$ 21.95	$ 19.95
Perfect Manual for Kaypro IV	$ 21.95	$ 19.95
Wordstar and Friends	$ 21.95	$ 19.95
RESTON PUBLISHING		
Compleat Kaypro II, IV & 10	$ 16.95	$ 15.95
CP/M for the Kaypro	$ 16.95	$ 15.95

Free yellow Hi-Liter pen sent with every book order.

Prices, specifications, and offers subject to change without notice.

CABLES

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

5 ft cables ... $19.95 each
10 ft cables ... $24.95 each

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

2 ft cables ... $15.95 each
5 ft cables ... $19.95 each

Satisfaction Guaranteed or Money Back
Order with Confidence

Do You Wish Writing Was Easier?

If you need to write, or want to write clearly, your Kaypro and the software program *Punctuation and Style* can help you get there faster. It improves, clarifies, and enriches your writing by identifying sentences with misused, redundant, faulty, cliched, or erroneous phrases, and shows you how to improve them. It helps you rewrite and check your work by quickly marking and annotating your files for easy correction. In addition to computer-fast identification of awkward, muddy, pompous, and wordy sentence structure, it also finds missing or improper punctuation, unbalanced quotes, wrong abbreviations, faulty capitalizations, and much more. *Punctuation and Style* actually improves your writing by mercilessly pointing out grammatical errors. After a few weeks with Oasis System's *Punctuation and Style* your writing is bound to become more dynamic, expressive, and honest. In time, you'll stop worrying about grammar and work on projecting ideas instead. After all, that's what writing is about.

Punctuation and Style makes writing and rewriting much easier. The list price of *Punctuation and Style* is $125. Central's price is $99. Experience the power of this valuable "Punctuation Checking and Writing Improvement Software" yourself. Order today to get this program fast.

Punctuation and Style works on files created with Wordstar or Perfect Writer. It comes with an easy to use, clearly written manual and is packaged in an attractive binder. Join thousands who now write with more confidence, faster, and better.

SmartKey II™
3,750 Strokes per Key!

SmartKey II lets you redefine keys at any time, even while your other software — such as Perfect Writer or Calc, Wordstar, dBase II, etc. is in operation. Once definitions are entered, they may be stored for future use. Save paragraphs or entire pages of text and recall them with the stroke of a single key. Give any upper or lower case key on your Kaypro as many as 3,750 unique characters of definition. Call up your specially designed "smart keys" whenever and wherever you want and inject them into your work. This is a must-have computer program for all Kaypro users including writers, lawyers, doctors, researchers, secretaries, programmers, and businessmen.

A super companion to SmartKey II is SmartPrint II. Now with single-stroke commands, SmartPrint II can make your dot matrix printer do dozens of tricks. Italics, greek characters, graphic symbols, boldface, underlining, extended typefaces, accent marks, and so much more, are all easy to do. Great for letter quality daisy wheel printers too. SmartKey II and SmartPrint II are regularly $129. SmartKey II alone is usually $89. Now, for a limited time only Central's combination SmartKey II and SmartPrint II pack is just $79. Order today.

Warning: SmartKey II makes lesser programs look dumb, dumb, dumb. SmartKey II is a fantastic tool.

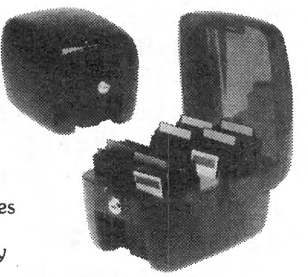
3M DISKETTES

3M Single Sided Double Density and Double-Sided Double Density soft-sectored diskettes are certified error-free, and work like a charm on Kaypro IIs, IVs, and 10s. Every 3M diskette is guaranteed to last over 3.5 million passes per track. This means if you rewrote or updated every track on a 3M diskette once per hour, you would have to continue this process for more than 200 years to equal the 3.5 million pass level. Heavy duty reinforced hub ring furthers the long service life of these diskettes. We guarantee trouble-free, lifetime performance of 3M disks or money-back.

Our quantity stocking of 3M diskettes and other guaranteed quality 3M products allows us to share with you our new shockingly low, low prices. Suggested list price of 3M SSDD diskettes is $42; list price of 3M DSDD diskettes is $60. There is no better diskette made for your Kaypro. Order today.

Box of 10 SS-DD-RH Kaypro II diskettes: **$22.30**
Box of 10 DS-DD-RH Kaypro IV diskettes: **$31.00**
Box of 10 DS-DD-RH Kaypro 10 diskettes: **$31.00**
3M Head Cleaning Kits for Kaypros: **$21.95**

Lockable Diskette Defender



This handsome, lockable diskette defender holds 70 Kaypro-size diskettes in a sturdy tray. Now you can safely desk top file your programs and data diskettes for quick and easy reference. This streamlined case is constructed of high impact, smoke-tinted acrylic. Flip-up lid keeps out dust, debris, and moisture, and locks securely to guard your important work. Comes with 7 dividers with index tabs for easy filing and to keep floppies upright to prevent bending, warping, and scratching. Molded recessed handles for worry-free carrying. Tough and secure metal lock never comes in contact with diskettes because it is enclosed in a special plastic housing. This is a super value at the new list price of $27.95. Some sell these for as much as $39. Our low price is $23.95 for one, or $21.95 each if you buy 2 or more. Keep prying eyes and sticky fingers away from your data. Guaranteed. Order today.

CENTRAL COMPUTER PRODUCTS
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Dear Central,

Please send me the items listed below. I want fast, friendly service. Don't forget to include my free 12 foot extension cord. I understand there is no charge for this cord if I purchase 2 or more items from these pages. My check, money order, or card no. is enclosed. Thanks.

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Phone Orders Accepted.
To order by mail use coupon, letter, or photo copy. Thank you.

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WORDSTAR by Chiang

THE COMMAND STRUCTURE OF WORDSTAR

In customized Wordstar, the Kaypro's delete and backspace keys work fine, and so do the cursor keys. However, just as in Perfect Writer, you can move the cursor with control commands. With Perfect Writer, the commands are Control-B, -F, -P, and -N for left, right, up, and down. This was supposed to be easy to remember (Back, Forward, Previous, Next). Wordstar's cursor movement commands are Control-S, -D, -E, and -X, for left, right; up, and down. This may not seem any easier to remember, but take a look at your keyboard. Those four letters form a diamond near the left side; place your hand so that your little finger is depressing the control key, and the cursor diamond can be used with great ease. Left, right, up, down; they're all in the right direction, and with some practice, you'll be able to use the keys without looking. This gives you two easy means of cursor control.

It doesn't stop there; Control-A and -F make the cursor move left and right a word. Thus, with those letters farther to the sides, your cursor moves farther to the sides. Control-R and -C move the cursor up and down a screen, while Control-W and -Z move the text, as opposed to the cursor, so that you can see the surrounding text while keeping the cursor in the same place. Try typing some text onto the screen, and you can experiment with this cursor pad.

Even the delete functions are grouped together. Control-G deletes the character the cursor is on, Control-T deletes to the end of the word, and Control-Y deletes a line. These form a cluster on the keyboard, which is also rather nice.

Perfect Writer's commands use control keys, control sequences, escape sequences, and escape-control sequences. This wasn't a bad idea, but the escape key is not as easy to use as the control, and the variations can be confusing. In Wordstar, only control keys and control sequences are used. The control sequences use a prefix command, as seen on the menu, and a second key which ordinarily has a function related to that which it performs in the sequence.

WordStar CAN Do It !

By Larry Donato

WORDSTAR DOES PROPORTIONAL SPACING &

RIGHT HAND JUSTIFICATION SIMULTANEOUSLY !

This statement is worth more exclamation points than one. I have spoken to many people who wanted this capability and some who required it for output that looked like typesetting. Everyone I spoke to in the computer profession knew no way of doing it.

In a recently released (and highly recommended) book by Steven Frankel, The Compleat Kaypro, published by Reston Publishing Co., Inc., Mr. Frankel notes that WordStar really does have proportional spacing. It is labelled an 'experimental and unsupported feature' and the customer is warned that MicroPro will not provide help in getting the feature to work exactly as the customer may wish it to. For anyone to get proportional spacing from WordStar, merely type ^P^P at the beginning of any file. This will insert a single ^P character at the beginning of the file which will not print, but will turn on the proportional spacing toggle switch. To turn it off, just put another ^P^P where you want it to be.

Additionally, I found that you could control the spacing between letters with WordStar's .CW command.

Bear in mind that the printer must be able to support true proportional spacing, and must be able to space 1/120th of an inch at a time. The printers that I have dealt with that can do this are the Brother HR-15, Juki 6100, Diablo 630, and the C. Itoh Starwriter. I believe NEC Spinwriters and Qume printers can also do it, but I haven't tried them. Also bear in mind that WordStar must be properly installed for the printer you are using.

* * *

ALL Back Issues in Stock

In Response ...

...In order to print an MBasic program, you must first change it from a compressed file (garbage) to an ASCII file (English). To do this you must first load the program and then save it using ",A" after the file name.

Example: ok save "FILENAME.BAS",A

When you do this, the file will take more room on the disk, so make sure your disk has space for the new ASCII file. After you save the file, you will be able to use the TYPE program to see that it is now in English and you can also use the <control> P to send it to the printer for a hardcopy printout.

...The 1983 KUGRAM index is available as a Back Issue. Cost is $3.00, but is included with the KUGRAM binder at $8.00 for both.

...When working with the hard drive on the Kaypro 10, do not use the ERA *.* to remove all files from any of the user areas. It seems that there may be a "mask" covering some bad sectors. Using the ERA *.* also erases the "mask" and you may get BAD SECTOR errors.

...All KUG library disks are now "in stock" and KUG usually mails them within five days after receipt of your request. The same for all Back Issues and Index.

...KUG does not have PERFECT updates. If PERFECT offers them to us, we will be happy to offer them to all you PERFECT KUGGERS.

...As far as we know, all our library disks will run on the 4 and the 10. If you find that some will not, please let us know. We have Kaypro II's and Kaypro 10's. We do not have the Kaypro 4. We plan to get the newer 4E+88, the Kaypro 4 with the upgrade to IBM compatibility.

...If you are looking for hints for the ADVENTURE game, try the KUG Bulletin Board. Lots of players there.

Maple-Soft

MapleSoft

Box 13356, Kanata PO
Ottawa, Ont, Canada K2K IX5

ON-LINE TYPER $25

- Converts your KayPro system into an electric typewriter
- Relocates to protected high memory where it's safe from warm boots and application programs
- Just type Control-] - even in the middle of a command or text entry, etc - OLT saves everything, returning to the exact point where you left off
- Spaces, tabs and returns move the printhead at once - so you always know just where you're typing
- Great for envelopes, printed forms, hasty notes. You can even change printer set-up codes on-the-fly, etc
- Ready to run for Epson-compatible printers including Gemini and IBM-PC. Easily installed for most others

SNAPSHOT $25

- Print a copy of your KayPro screen - anytime!
- Relocates to protected high memory where it's safe from warm boots and application programs
- Does not affect screen contents or program operation
- Capture intermediate game and program results on paper
- Ready to run for all printers

*** SPECIAL ***

SST - Both On-Line Typer and SnapShot in one integrated package for only $30

K-FIX $25

- Permanently alters KayPro II CP/M (actually the BIOS) to:
  - Automatically shut off drive motors when they are not in use - a must for Perfect Writer
  - Extinguish drive LEDs except during disk read or write - Find out what's really going on in there
  - Change the default cold boot/reset serial baud rate to any of the 16 KayPro values - No more BAUD.COM
- See September Byte, page 598, for more details
- New BIOS remains reproducible with SYSGEN, COPYNEW, etc

TERMS:
- Prices include airmail and handling
- Source code and U-Print manual included on disk
- Personal checks accepted for immediate shipment
- Please add 15% if remitting in Canadian funds
- Guaranteed satisfaction or complete refund

S-BASIC TUTORIAL AVAILABLE

Approximately 120 pages of letter size sheets for 3-ring binder covering the aspects of S-Basis Programming. (with references to M-Basic)

SEND $20.00 MONEY ORDER
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National KUG Disks

by Sergio Weber (Long Island KUG)

Disk 101 (Pacman and Chess)

ACEY: Plays a game of acey-deucey. CAMEL: Can you get your camel across the desert with just a bit of water and not be captured by cannibals? CHESS: Great for a break from word processing. LIFE: Simulates a colony of bacteria over a number of generations. Start with your own pattern and watch the different designs unfold. PACMAN: A more sophisticated version of "catchum" included on the standard KAYPRO games. SUMERIA: You are the ruler of Sumeria and have to budget the resources, land, and food for your kingdom. (Interesting.)

DISK 102 (Eliza & Golf Games)

ELIZA: A Rogerian psychiatrist gives you a psychotherapy session! GOLF: Play 18 holes of golf using different clubs and types of strokes. HELLO: Clever advice-giving computer. Try it!

DISK 103 (Modem)

This disk contains two different modem programs:

KMDM795 Modem Program version 7.95 and KAYM version of AMODEM, both for Kaypro.

These programs are very similar. Both will work with virtually any modem. A documentation file is included for KAYM. The source code for KMDM795 is also included.

DISK 104 (Help-CP/M & Others)

This disk contains the menu driven HELP files for various languages and systems:

C-HELP, CPM2 HELP, FORTRAN HELP, HELP HELP, (shows you how to use HELP.COM!!), MBASIC HELP, PASCAL HELP. P.S. You can also make up your own help files.

DISK 106 (Adventure Game)

Adventure game (Version B01). Type "RUN" and search caves for treasure while trying to avoid obstacles and monsters.

DISK 105 (Utility Disk)

EX: Utility for program batching: Fast way of executing SUBMIT files. FINDBAD: Checks an entire disk, reports bad sectors, and then creates a special file containing those sectors. You save a bundle on disks. NEWPIP: Enhanced version of PIP 1.5. Adds "R" command to reset both drives to R/W, allowing you to change disks while still in NEWPIP. Adds "Q" command to repeat last entered command. SQ-16: This is an important program that squeezes text files or source code into less space. It allows you to get up to 60 percent more on a floppy disk. Also good for storing your backup and archived programs. (This program is used as a package, including SQ, USQ, FLS, and TYPESQ.) SWEEP: Menu driven disk utility program (copies, deletes, renames, displays, etc). UNERASE: Restores a file erased by an ERA command. Simply type "UNERASE" followed by the filename you just erased, and PRESTO, the erased file is back! A real lifesaver!

USQ-19: This is the reverse of SQ-16. This program unsqueezes your squeezed (filename.*Q*) files.

DISK 107 (Statistics)

ANOVA: Calculates an analysis of variance table (written in SBASIC). CHISQ: Calculates the value of chi square for any of 3 situations: simple chi square, the 2 X 2 contingency table, and larger contingency tables (written in SBASIC). CORLREG: Calculates the correlation coefficient and the regression equation (written in SBASIC). MEANSD: Calculates the mean, standard deviation, sum of squares, and variance (written in SBASIC). TTEST: Calculates the value of "t" in order to compare the means of two groups to see if they are statistically different (written in SBASIC).

* * *

(Editor's Note: Mr. Weber will continue describing KUG disks in future issues of KUGRAM. For complete listing of KUG disks, see the LIBRARY column.)

Multi Format Disk

Steve Rasmussen, the software section head of Kaypro Corporation, has developed an excellent program for formatting disks in "other than Kaypro" format.

Although it does what Uniform does, it does it in a different manner. There is no SETDISK or INITDISK. The entire program is menu driven and is very "user friendly." You just use your cursor keys for selection and the program does the rest. If the disk you want to (S)elect is not compatible, the program tells you so.

The formats that are available are:

KAYPRO	Single and Double density
OSBORNE 1	Single and Double density
XEROX 820	Single and Double density
TRS 80	Single density
TRS 80	Model III
T I Prof.	Double density
IBM PC	Double density
ZENITH 100	Double density
NEC PC	8001a
MORROW MICRO DECISION (MD2)	

Because of the different BIOS, Steve has created these programs in three Kaypro versions, one for each: Kaypro 10, Kaypro II and the Kaypro 4. This disk is available from the KUG Library and can be ordered from KUG at $10.00 each.

*** IMPORTANT *** Be sure to let us know which Kaypro model you will be using (II, 4, or 10).

Steve would like to know what other formats you KUGGERS would like. Send it to KUG and we will continue to up-date the disks to as many formats as Steve can provide.

Kugram Binder and Index

This index will be inserted into a three ring binder that is printed with the KUGRAM logo on the front and spine. The colorful binder, designed to hold your first year's KUGRAMS and index, is available from KUG for $8.00 shipped prepaid. Send to KUGRAM BINDER, Box 100, Malverne, NY 11565. Allow six weeks for delivery.

Library

The KUG library is continuing to develop thanks to your contributions. The disks that are available are:

#101 (Games) PAC-MAN & CHESS
#102 (Games) ELIZA & GOLF + Misc.
#103 (Modem) MODEM 795 for Tel. Comm.
#104 (Helps) HELP CP/M, MBASIC + Others
#105 (Utilities 1)
#106 (Games) ADVENTURE
#107 (Statistical) STATISTICS
#108 (Games) MBASIC MYSTERY
#109 (Utilities 2)
#110 (Pictures) POSTER PRINTOUTS
#111 (Graphics) KAYPRO 10 GRAPHICS
#112 (Helps 2) HELP PERFECT, SBASIC, Etc.
#113 (Business) SBASIC & MBASIC PGRMS
* #114 (Directory) "LITTLE BLACK BOOK"
* #115 (Games) STARTREK + 15 MBASIC GAMES

* New contributions

Please continue to contribute to the KUG library and when you do, be sure to tell us which Kaypro it will run on. REMEMBER, we will send you a disk from our library for any contribution ON DISK to our library or to the KUGRAM.

If you would like to receive any of the above, send $10.00 (for each) to KUG LIBRARY at Box 100, Malverne, NY 11565. DO NOT SEND US ANY DISKS. We will supply the programs on our disks. Be sure to mention the disk name, number, your mailing address and I.D. number.

NOTICE

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

The renewal rate is $15.00 U.S.A ... $20.00 CANADA (U.S.Funds) and should be mailed to KUG RENEWAL, Box 100, Malverne, NY 11565.

******* I M P O R T A N T *******

Please write your ID# on the face of the check. The number on the KUGRAM label is your ID number.

End Output Surprises

Yes...there is actually a simple way to find exactly where your page breaks will occur before you print a Perfect Writer document. In fact, you can find out what your entire document will look like before it is printed.

This is accomplished by modifying Perfect Writer to format an output file that can be read and even edited on your screen. Unlike the FORMAT menu option "C" which sends output to the console, the "Pseudo Printer" output is exactly what will appear on your printer. It can even be modified before printing for last minute rearrangement or to insert special control characters that are unavailable through Perfect Writer.

All characters that are preceded by -> indicate input that you should type in exactly as written. The -> should NOT be included and CTRL-G indicates that the CTRL and G keys should be depressed together. <CR> indicates that you should depress the "RETURN" key.

1) Insert your Perfect Writer "INSTALLATION" diskette in DRIVE A.
2) Insert your Perfect Writer "EDIT" diskette in DRIVE B.
3) Depress the red RESET button on the back of your KAYPRO to COLD BOOT.
4) Type -> B: <CR>
5) Type -> A:PFCONFIG <CR>
6) Answer "Do you wish to exit and change disks?" by typing -> N
7) Type -> <CR>
8) Select "Define printer types" by typing -> 2 <CR>
9) List the currently defined printer types by typing -> 1 <CR>
10) Identify your own "real" printer (eg. Epson) and a printer that you will never use (e.g., I chose "Cent737").
11) Type -> <CR>
12) Delete the definition of this unneeded printer by typing -> 4 <CR>
13) Type in the exact name of the printer to be deleted (e.g., -> Cent737).
14) Since it is OK to delete this printer definition, type -> Y
15) Now select the option to update an existing printer by typing->3 <CR>. (Actually, you'll just be looking at the definition, not updating it).
16) Type the exact name of your real printer identified in step 10 (eg. -> Epson <CR>).
17) A list of items will appear on your screen. Copy down the values for items 1-7.
18) Exit this option by typing -> CTRL-G
19) Now start to define your new "Pseudo Printer" by typing -> 2 <CR>
20) Name your new printer by typing -> PSEUDO <CR>
21) Answer the first 7 questions that appear with the exact values that you copied from your real printer definition (step 17).
22) Answer eighth question "Generate online-readable output?" by typing->Y
23) Your new "Pseudo Printer" is now completely defined. Verify that your definition was added by typing -> 1 <CR>
24) After you verify that "PSEUDO" is on the list type -> <CR>
25) Return to the main menu by typing -> 6 <CR>
26) Exit the configuration program by typing -> 6 <CR>

You now have a "Pseudo Printer" defined and ready to use. To try it, format any Perfect Writer document (e.g., XXXX.MSS) and on the format menu, be sure to choose option "D" to specify a different device type. When asked for the device name, you should type -> PSEUDO <CR>.

When formatting is complete, a "FIN" file is created (eg. XXXX.FIN). Take a look at this "FIN" file by editing it with Perfect Writer, just like any other document. You'll find that it will contain a finished version of your document exactly as it would appear on your "real" printer.

Once the appearance of the document is correct, you can print it out by reformatting the file without specifying "PSEUDO" as an alternate device type. You can then use the normal printer menu options to actually print the file.

Peter L. Bloom
President
ERGONOMIC RESOURCES
71 Orange Street
Brooklyn, NY 11201

PROFESSIONAL SERIES

HOME ACCOUNTANT by Continental
Handles over 1000 transactions per month. Itemizes by category, maintains checkbooks, prints a variety of reports as well as net worth statement. Considered largest selling home and small business package available today. $99

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SILVER CALENDAR Scheduling
Multi-dimensional scheduling allows for priorities, flexible searches of people, places of things scheduled, calendar division by the minute, and full report generation. $99

FOLIO ANALYSIS by Douthette
Silver Folio is a personal inventory/worth financial analysis module which includes inventory, assets, stock analysis, real estate, etc. Prints reports for Net Worth, Property listing, and handles Amortization schedules. $99

FORM MASTER By GO
Ideally suited program for any professional who requires form to be filled in. Program automatically fills in forms where required. User defined prompts facilitate fill-in. Program stores in menu driven form all forms created. From start to finish on forms in 5 minutes. $129

DISK CONVERSION Software
If you own an IBM or IBM compatible, or one of many CP/M based machines, you can read and write up to 50 different computer formats on your machine. $49-99

COMMUNICATIONS SOFTWARE
Smart communications allow variable baud rate, built in easy to use auto dialing and phone directory, and allows saving to disk of all information coming in over the phone line. $69

SMARTCOM by Quest Software
Smart Communications software which allows saving files to disk. Menu driven, easy to use. $25

TELEX/TWX SOFTWARE by Amer.Int.
Convert your computer to a standard Telex or TWX system supported by Western Union or ITT, or Independent Services. $250

PRESCHOOL SERIES by Quest
PRESCHOOL SERIES SOFTWARE developed on the Montessori teaching method. Many programs use large figures, with easy to follow instructions. Ideal for 3 year olds and up. Teaches Number and Set theory, eye and hand coordination, identification. Sample program available with description. $15

PRINT SCREEN by Quest
For Kaypro II or IV only. Anything that you see on the screen at any time can be printed on the printer. Works with all types of programs and printers. $29

GRAPHICS for Kaypro $129
Fantastic display and engineering graphics programs for your Kaypro. Print Pie, bar,line, and multiple type charts or grapahs. Extremely easy to use. Specify engineering or display.

20 PAGE SOFTWARE CATALOG AND FREE "WORD CHOICE" BOOK WITH ORDER

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191K ".FIN" Files

Recently I encountered and overcame a limitation of the Kaypro II and Perfect Writer, that of formatting a large document file - by large I mean over 90K.

The problem exists because of several factors:

1. The total disk space for a Kaypro II is 191K.

2. Perfect Writer creates a .FIN file when a data file is formatted, and then it is at least as large and usually larger than the data file.

3. The .FIN file is always on the same disk as the data file (usually drive B).

4. Therefore, a data file can be, at most, 90K because an equal amount of space must be left on the disk for the .FIN file.

Step 1. PIP pf.com and pf.dat from Perfect Writer Edit disk to the data disk with file1.mss, file2.mss, and file3.mss.

Step 2. Put a blank formatted disk in drive B, and with Perfect Writer in drive A, open a file named final.mss. Then type the following:

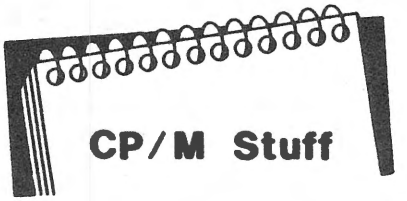
```
@include[a:file1.mss]
@include[a:file2.mss]
@include[a:file3.mss]
```

Save the file (CTRL-X CTRL-S) and exit from Perfect Writer (CTRL-X CTRL-C).

Step 3. Insert your original data disk, with Perfect Formatter and the three ".MSS" files, in drive A. After a warm boot, type pf b:final.mss

That's all there is to it. Perfect Formatter creates the .FIN file on the disk in drive B. Later, you can print the file with the Print Formatted File option on the Main Selection Menu.

Jack Denslow
Friendly Computers
1844 Lincoln Blvd.
Santa Monica, CA 90405



Wouldn't it be something if we could have programs with the same name on the same disk? The kids could play or work in different "USER" areas and you could keep your records in still another "USER" area. Well, CP/M does it again. There are up to 16 "USER" areas (Ø - 15) that you can get into without interfering with each other. Let's see how they work.

Place your CP/ M disk in drive A. Warm boot (<control> C) and at the A> prompt type DIR. All that good stuff is there. Now at the A> type USER 3. Another A> will appear. Type DIR again. How about that, there are NO FILES there. Try another area (USER 1 or USER 15, etc.). None have files . Each of these areas can be used for files or programs that you would like to keep separated. However, when you STAT your disk, all programs in all areas are counted in used storage.

In order to move programs from one area to another or from one drive to another, the destination area must have PIP.COM on it. You cannot type USER 3 and then type PIP because PIP.COM is not in that USER 3 area. CP/ M comes through once more. Another "resident" lets you "SAVE" PIP.COM in any or all of the 16 areas.

Type USER Ø again and at the A> type DDT PIP.COM. (Be sure DDT.COM is on your disk.) At the - type GØ. There will be another warm boot. Type USER 3. At the A> type SAVE 28 PIP.COM. (The 28 is the amount of hexadecimal pages in PIP.COM.) Now type DIR. We now have a file in USER 3 called PIP.COM. Let's use it to GET other programs from USER Ø on the same disk.

At the A> type PIP A:=A:FAC.BAS[GØ]. You have just PIPed FAC.BAS from one USER area (Ø) to another (3). The [GØ] means Get from user Ø. You can move from USER to USER with the [Gn] parameter

To find out what USER areas are being used, just type STAT USR:. Try it now to see how many contain files.

Programming with SBasic

REVIEWED BY: K.S. PLATOU

In my search for SBasic text and programs, a so called unfinished product popped up in my mail from Sven Erlandsson, 3268 Leon Briesebois, Ile Bizard, Quebec, Canada, H9C 1W2. You may recall his contribution in KUGRAM Vol. 1 No. 6, Pg. 6.

He suggested I review his product, which he intends to finish and distribute on letter size loose sheets suitable for insertion in 3 ring binders at $20.00 per copy. I read or rather glanced through his 70 (Now 102 .ed) pages of text, complete with glossary and detailed index, and settled down to study the text to "PROG7."

The clarity of his working explanations made me decide to share a typical sample, with his permission, for the KUGGERs' own review of what is possible in SBasic.

He calls it a handy way to locate an array "on top of a disk file buffer," so that the array can be written to or called from a disk drive.

```
VAR A,B=INTEGER
DIM BASE STRING:31 C(3)
FILES R(128),R(128)
CREATE "B:STRINGS"
OPEN #0; "B:STRINGS"
LOCATION FILE A=#0
LOCATE C AT A
       FOR B=0 TO 3
              LET C(B)="STRING #"
       NEXT B
WRITE #0,0
CLOSE #0
OPEN #1; "B:STRING""
LOCATE C AT A
READ #1,0
       FOR B=0 TO 3
              PRINT C(B);B;"   ";
       NEXT
END
```

He provides the fundamental tasks and steps all the way from establishing work copies to chaining and merging.

(continued)

For KUGGERs that are old basic hands, he provides the related features as they would run under MBasic. In short, the complete text provides a basis for both the why and the how to either start up in SBasic or make a graceful transition or program conversion from MBasic to Sbasic.

A nifty little thing like getting REM COMMENT on the same line with VAR... convinced me that most of us short timers in programming need some text to supplement the SBasic manual.

Not withstanding Erlandsson's statement that it is an unfinished product, what's there is complete. That he has more to elaborate on I don't doubt, but most of us need the help now. So if you are looking for this kind of help as shown from his sample style of programming, you might find some of the answers from Sven's contribution to KUGRAM and more so from his "unfinished" document.

Screen Graphics ADD-On

JFN Industries has just introduced its AT-1 Video Attribute Add-On Circuit Board and its GR-1 Graphics Upgrade for the Kaypro II and 4 portable computers. The AT-1 adds screen highlighting including REVERSE VIDEO, REDUCED INTENSITY, BLINKING and REVERSE SCREEN. In addition, it enables MULTIPLE TERMINAL EMULATION capability and SCREEN TO PRINTER DUMP. The GR-1 adds EPSON PRINTER COMPATIBLE GRAPHICS and SCREEN DUMP CHARACTER TRANSLATION. Both add-ons connect directly to the Kaypro's circuit board without modification of the main board.

The AT-1 will also add TERMINAL EMULATION CAPABILITY, enabling Kaypro II and 4 computers to respond to the standard Kaypro codes, codes used on the Kaypro 10, the popular Televideo 925 terminal, the IBM PC, or almost any other terminal.

Price of the AT-1 VIDEO ATTRIBUTE CIRCUIT BOARD with Screen Dump, is $149.95. The GR-1 GRAPHICS UP-GRADE is $49.95. The AT-1 and GR-1 are available packaged together for only $179.95. Custom character graphics are also available from JFN Industries, 361 N. Fuller Ave., Los Angeles, CA 90036 -- (213) 939-4105.

Best of KUGBB

FROM MARK GUERIN ON KBB

I've found that writing on PW is easier than WS and formatting on WS is easier than PW, but rather than suffer with one or the other's limitations, I make the best of both by using WS to format a file I've written with PW. (It doesn't work the other way around.) Now, I have the ease of PW's many cursor commands, double windows, upper/lower case toggles AND the use of WS's on-screen formatting and quicker printing commands. I've also found, for whatever reason, my Daisywriter works better (bold face, proportional spacing, type width and height modifications) using Wordstar rather than Perfect Writer.

When you're done writing the file with PW, simply back out to CPM and warm boot as usual, put in WS and call up the same file. It looks exactly the same, but now there are those wonderful page breaks, and you can add in the dot commands and then print. Try it, you might like it.

FROM BILL PIERCE ON KBB

Kaypro 10 users who want to take full advantage of how Perfect Calc was designed to look (using inverse video like Wordstar) can do the following:

1) Restore the terminal menu to PCCONFIG.COM. Using DDT change the following bytes:

1A47 from FB to 2B
1A48 from 0E to 1D
1A49 from 21 to C3
1A4A from 3F to 5D
1A4B from 37 to 1B

Exit DDT and type SAVE 73 PCCONFIG.COM

Call up PCCONFIG and select menu item #1 (Configure terminal). Select terminal menu item #27 (Other) and then items #9 and #10 under the terminal characteristics menu to specify the inverse video start/stop strings, which are <esc>B0 (inverse on), and <esc>C0 (inverse off). Return to the main menu and update PC.OVL, then exit PCCONFIG.

Vendors

TYPESETTING & TELECOMMUNICATIONS
from
LG Graphics
212 Franklin Avenue
Pittsburgh, PA 15221

WEEKLY INVENTORY PROGRAM
from
Data Based Solutions
1975 Fifth Avenue
San Diego, CA 92101

AMBER SCREEN CONVERSION KIT
from
Amber Visions
878 Jackman Street
El Cajon, CA 92020

KAYPRO SPEED-UP KIT
from
Digital Dynamics
P.O. Box 5653
Tacoma, WA 98405

INTERNAL MODEM KIT
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Datasolvers, Inc.
509 S. Fern
Wichita, KS 67213

SOFT LUGGAGE FOR THE KAYPRO
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W.H. Jahnke, Inc.
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Naperville, IL 60566

KAYPRO NETWORKING KIT
from
Adveco, Inc.
P.O. Box 606
Camp Hill, PA 17011

TERMINAL EMULATOR FOR THE KAYPRO II
from
Optimum Systems, Inc.
P.O. Box 41778
Phoenix, AZ 85080

**

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

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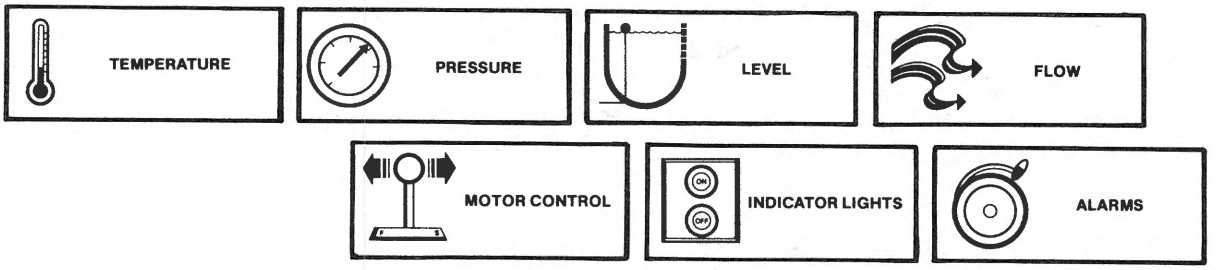

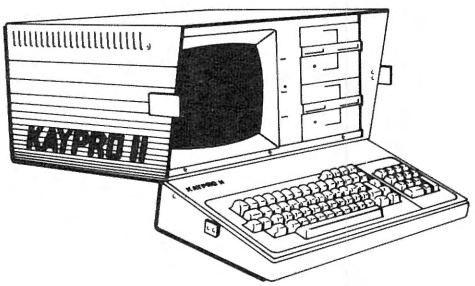

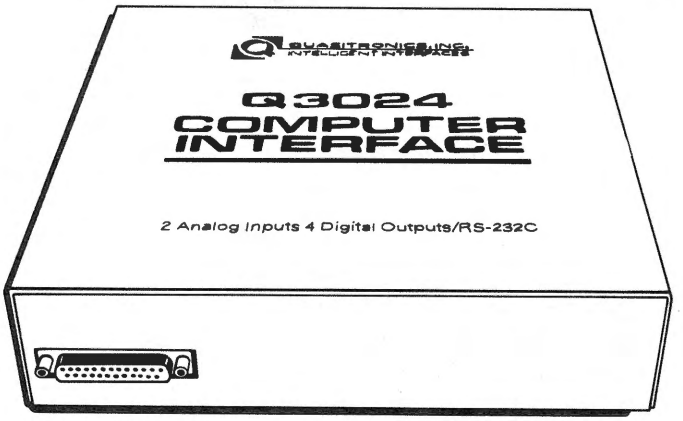

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Kaypro Upgrading

Hot New Database Product
by Gregg Platt
PeopleTalk Associates

Over the past several months we've talked about hardware and software upgrades for your Kaypro. As a result of those articles, we've received numerous inquiries on the compatability of various upgrades or the advisability of buying a product to meet specific needs. Although it's not possible for us to respond to individual questions, we'd like to offer some advice for those of youwho are entertaining the idea of upgrading your computer.

Some upgrades may not be compatible with others you've purchased. We regularly hear stories about hardware and software products which don't work correctly in conjunction with products sold by other suppliers. When buying a new product, be sure to ask about compatability with your current hardware and software.

Beware of "low ball" selling techniques and read the ads carefully. Occasionally it will be necessary for you to purchase additional equipment or software to get the benefit of a specific enhancement. It would be downright infuriating to buy a double sided disk kit for $120 and then discover that you needed to buy two $350 disk drives to complete the "upgrade."

To avoid this type of problem, we suggest that you make every attempt to purchase upgrades from a reputable dealer. Though you may pay a bit more for a dealer-sold and-supported product, our experience shows you'll have less difficulty in getting problems solved if you're dealing with a local merchant. This is especially true on big ticket items! Shop for a dealer who sells the product you want and be specific in telling him what changes (if any) have already been installed on your Kaypro. Also, ask if the dealer will remove the upgrade and refund your money if compatibility problems arise.

If you're considering buying an upgrade by mail, be sure to check on the supplier through other users or your local users group.

Most mail order houses are quite reputable; however, if you decide to buy a mail order product, check with the vendor regarding their refund policy.

Basically, the same advice applies in all cases. Find a reputable supplier, check with other owners, ask specific questions and make sure you get the right answers!

Good News for Kaypro 4 and 10 owners who are thinking about database upgrades! A few weeks ago we began testing a package called SALVO on our Kaypro-10. SALVO is a new product by Software Automation Inc. of Dallas. It combines the latest state-of-the-art database technology with a powerful "fourth generation" language and a "natural language" interpreter designed to help you get acquainted.

If you're tired of defining reports and subsets with Perfect Filer or dBASE-II, you'll be amazed at the capabilities of SALVO. Imagine defining a new report by entering: "List the retail customers for salesman Smith, and their orders and parts." - or how about - "List my clients with past due invoices." SALVO's natural language interpreter is "smart" enough to figure out these requests and hundreds of others by looking at what it "knows" about your data and figuring out the most reasonable way to respond to the request.

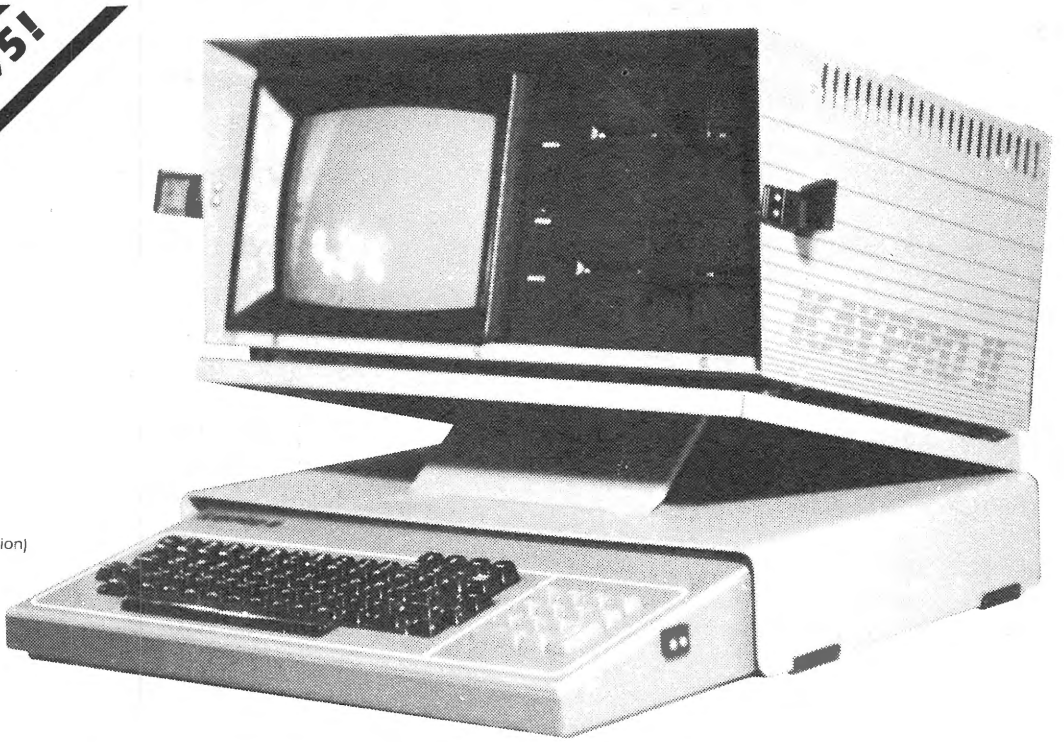
SALVO is what software specialists call a "knowledge-based" product. It includes a relational database management program, a powerful and easy-to-learn programming language, extensive user aides, and the natural language interpreter. And, you can use up to 16 files at once (compared to 1 for Perfect Filer and 2 for dBASE)!

SALVO's only real limitation seems to be its report generator. The first release is a bit inflexible in its notion of the way reports ought to look. However, this problem should be corrected when the full report generator is released in April. Users licensing the first release will be able to upgrade in April for a nominal fee.

Our rating? A great buy at $495! If you're considering a new database product, don't overlook this one ... it's hot!

* * *

Now Only $59.95!



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KUGNEWS for Chapters

The first newsletter for KUG Chapters was mailed in January. The response was "great" and we look forward to many good things coming from this effort.

The name of the newsletter is KUGNEWS and it is being sent to all KUG Chapters around the world. It is published by The National Kaypro Users' Group, the same group that publishes the KUGRAM.

If your chapter did not receive the KUGNEWS, make sure that you let us know as soon as possible so that we may put you on our mailing list.

Some copies of KUGNEWS have been returned to us for various reasons. We double-checked names and addresses and sent out another copy of the first issue to most of the returns. If you have up-to-date information on the following user groups, please contact us.

Kaypro User's Assn. of Fort Collins
P.O. Box 1089
Fort Collins, CO 80522

Ted Morton
Kaypro Users Klub
Univ. of Calgary
2500 University Dr. NW
Calgary, Alberta, Canada T2N 1N4

Send all information to ... KUGNEWS, P.O. Box 100, Malverne, NY 11565.

* * *

Kaypro News

KAYPRO has modified its software bundle several times. This has left some users feeling left out of the newer programs.

KAYPRO intends to issue discount coupons on specific software items based on machine serial numbers and date of purchase. The plan is as follows:

You will be asked to submit serial numbers and date of purchase. Coupons will be issued for a 20% discount off the retail price of the item requested. When the coupons have been sent, you will decide which KAYPRO dealer to patronize. The dealers will then return the coupon to KAYPRO for remuneration.

Send requests to ... Kaypro Corporation, 533 Stevens Avenue, Solana Beach, CA 92075.

KUG in W. Germany ?

I would like to join or start a Kaypro Group in West Germany:

Richard A. Muirragui
HQS 11th Signal Battalion
APO New York 09175

* * *

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

U.S. & DOMESTIC $15.00
CANADA & MEXICO .... $20.00 (U.S. FUNDS)
INTERNATIONAL ..... $25.00 (U.S. FUNDS)

Back issues, when available, are $3.00 each (sent prepaid). Send payments to: Kaypro Users' Group, Back Issue, Box 100, Malverne, NY 11565 .... Circulation number - (516) 746-0056.

Although it is a policy to check material placed in the KUGRAM for accuracy, KUG offers no warranty either expressed or implied, and is not responsible for any losses due to the use of any material in this newsletter. Articles submitted by users and published in KUGRAM, which describe hardware modifications, are not supported by Kay Computers or Non-Linear Systems.

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 programs 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 consequents 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.

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

KUG's Bulletin Board in Chicago 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 (312) 882-6747.

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NOTICE

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

The renewal rate is $15.00 U.S.A ... $20.00 CANADA (U.S.Funds) and should be mailed to KUG RENEWAL, Box 100, Malverne, NY 11565.

***** I M P O R T A N T *****

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