kµgram

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Official Newsletter of the KAYPRO USERS' GROUP

SO ... WHAT ELSE IS NEW??

A friend of mine recently explained what he thought "mixed emotions" was all about. He said, "Mixed emotions are when you see your mother-in-law drive your brand new Cadillac off a cliff."

That just about sums up the feelings I had after spending 24 hours, four days and one pair of shoes at COMDEX, the Giant Computer Show.

It is amazing how much hoopla and fuss can be made about old products with new faces. However, I must admit that visiting this type of trade show is very exciting. I must also admit that there were some interesting older technologies, but at more reasonable prices.

I guess the most important aspect of visiting this type of extravaganza is to find out how KUGGERs can benefit from the information that is available. So, here goes.

Although the Kaypro booth seemed to be much larger than in previous years, the products featured were the same as announced months before. The Kaypro 2000 and the Kaypro PC drew the most attention. So much for Kaypro News.

The most widely exposed "new" products were the laser printers. There were about 30 vendors showing their laser printers at prices from $2,000.00 to $25,000.00. (More about how this will affect KUGRAM later on.)

The other add-on products were either faster or had more storage capacity. A dot matrix printer running at 700 characters per SECOND. Laser disks with a gigabyte of storage.

One of the more interesting products we saw was the Silver Reed EB50. This printer, typewriter, plotter was demonstrated hooked to a Kaypro 2000. It weighs THREE pounds and prints bar and pie charts in MULTI-COLOR. It also prints or types in different sizes and/or colors. We will review this machine in the next issue.

Aside from the nice feelings we got from meeting some of our KUG friends, (Rose Green of Las Vegas KUG, Dave Thompson of Micro C and others) we were very impressed with the laser printers. We have decided to "get started" with this new form of desktop publishing. The laser printer will allow KUGRAM to print more information without sacrificing more space. We will be able to introduce more graphics. The column format will still be used, but it will contain italics, sub-heads, boldface and footnotes.

As for the word processor, we will continue to use Select, WordStar and Perfect Writer. All your disk contributions will be edited on KayproIIs and 4s and then "moved" to the MS-DOS Kaypro PC to be formatted for the laser printer using Microsoft Word. The make and model of the printer is still to be determined. More about this later on.

We will also continue to keep you informed of new technologies.

COMDEX was huge and tiring, but it still allowed us to see just a little bit more of the future. As of now the future looks more affordable and brighter for all KUGGERs.

Time to soak my feet again, AHHHH.....

A> DIR KUGRAM

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

Renewal Offer

Get a FREE disk from the KUG Library when you renew your membership for two years. You do not have to wait until it is time to renew. Send your check for $30.00 (Canada and Mexico, $40.00 U.S.; other countries, $50.00 U.S.) and we will extend your membership. Be sure to give us the name and number of the KUG library disk you want. OTHERWISE WE WILL SEND YOU ONE OF OUR CHOICE!

Please put your KUG ID# on your check and mail to KUG Renewal Offer, Box 100, Malverne, NY 11565.

Disk Contributions

Any disk submitted to the KUGRAM (containing letters, articles, or reviews) entitles the writer to a FREE disk from the KUG Library. Put your name and address on the disk label, and let us know which disk you want in return. Mail to KUGRAM at the above address.

Box 100

Dear KUG,

Recently I installed two Shugart half-height double-sided drives in place of one of my Kaypro II's full-height single-sided drives. The two new drives are running very nicely now as A and B drives.

I kept the old B drive in the Kaypro and rejumpered it as a C drive; but the computer has never acknowledged its presence. Micro Cornucopia tells me I have to buy their Pro-8 ROM and Plus-4 decoder board for about $90.00. Isn't there a simpler and cheaper way of simply replacing the Monitor ROM? I don't need all the extra power of the MC set-up, and I hesitate to put that much money into just keeping one of the old drives.

Can anyone offer any suggestions? Perhaps there is an article somewhere that has already dealt with my problem. On the other hand, it's possible that there are others in KUG who are trying or contemplating to do the same thing, and I would be interested in their wisdom on the matter.

Rev. W. Brewster Willcox
First United Church of Christ
P.O. Box 7
Richmond, MI 48062

* * *

Dear KUG,

I recently read a "fix" for Perfect Filer version 2.0 that enabled the system to have a date stamp greater than 1988. I tried this fix, but it did not work as I have version 1.0!

Not being a "techie" nor used to using DDT.COM to fix software like this, I would appreciate any information my fellow users have about how I can fix this software.

John Buck
1200 Lakeshore Ave., Suite 16-B
Oakland, CA 94606

Dear KUG,

The documentation file (pcfiler.doc) for the excellent KUG Library program #147 "PF & WP Utilities" refers to the at-sign but prints ">." A right arrow is used elsewhere in the program and there it is correctly called a right arrow bracket. You must use "@" not ">" at the end of the list member format block. Field #11 in the example should end with "<cr>@<cr>" instead of "<cr>><cr>."

I use PCFILER to pull figures from a statement/invoice data base which has records for individuals and organizations. I created a data field "nickname" limited in length to fit my spreadsheet description column, but sufficient for ready identification and written using commas to integrate individuals and organizations for alphabetical sort, like: "Acme Inc." and "Acme, A.J." You can format a list "nickname/name" for generating a ready reference list of all members and for generating a list of selected members for use as a sort image for mailing. My list format for PCFILER (and generated list "xxx.flr") sorts by nickname (Sort Key #1) and uses nickname as the member format field used as a label by PCFILER for my spreadsheet description column.

I avoid the money template because it prints a dollar sign before every number on forms, so my PCFILER list member format references numeric logical fields for dollars and cents with "<String> "."" between them, rather than money templates.

J.D. Muller
P.O. Box 4361
Aspen, CO 81612

* * *

Dear KUG,

If anybody out there in KUGLAND knows how to configure Select word processing software to run on a Televideo TPCI computer, please call me collect at 406/586-1838 or write me. Apparently Select Information Systems is out of business and I am desperate.

Joseph R. Balyeat
6909 Rising Eagle Road
Bozeman, MT 59715

Dear KUG,

Enclosed find my application for membership. I hope there is a users' group in Des Moines, because as a handicappee I am not in a position to get one started. Additionally, I purchased my unit out of town as I could not locate anyone at the time who knew about converting the keyboard to the Dvorak one-hand method that I had been using on a typewriter for many years. I get along quite well with word processing but have had some difficulty with DataStar and CalcStar as well as with some other software I purchased and have no one with whom to consult. I hope that KUGGERs will have some answers.

H. Wayne Pritchard
2909 Woodland Avenue, Apt. 311
Des Moines, IA 50312

* * *

Dear KUG,

Having had my Kaypro II for three years, now upgraded to a 4 with a 5 MHz clock via Highland Microkit, I am happy to write of my satisfaction with Plu*Perfect. Below is a simple format program, which I call ltr.mss, containing my usual commands for letters. By inserting it (Ctrl-X I) after naming my new PW file, I save numerous key strokes.

```
@pagefooting[]@address[January 1986]
@flushleft[Inside address
Dear]
@center[Subject:]
@text[]
@closing[]
@flushleft[cc:]
@newpage
@center[Repeat of inside address]
```

I reprint the inside address after @newpage to address the envelope, and after formatting I use pp -pause to print. (There is no way to single space the above information using Plu*Perfect that I know of, without re-installing for only one line between @ commands.)

J.C. Simon
5410 Wilshire Boulevard
Los Angeles, CA 90036

Dear KUG,

I think I've found an answer to one of the shortcomings that all WordStar users must contend with, the inability to do a two-line header.

Here's my solution. After you've composed your document, save it using ^KS command, which will bring the cursor to the top of your document, where you will want to put in the dot command to print a header.

Before you enter the .HE command, first extend your right hand margin to a column number far wider than your printer is capable of printing on any one line. (Experiment with your own printer to find out what its right hand printing limit is.)

Then, starting at column 1, type in .HE, followed by the text you want on the first line of your header. Next, still on the same line, move the cursor to a position one column number wider that your printer can handle, and then type in the second line of your header. I don't know if it's coincidence or not, but the last printing column for my printer is 100. Therefore, I start the second line of my header at column 101.

That's all there is to it! After you have done all this, you may want to reset your right hand margin, but I don't think it's necessary.

A word of caution though. My printer is a Panasonic 10" wide, dot-matrix type, and this method works fine. However, I tried this method of two-line headers on our office printer, which as a NEC daisywheel letter quality printer, with a 14" wide carriage, and it did not work. The NEC printer refused to force a line feed at the end of the line, and printed all the remaining characters in the right hand most printing position, forming a black square.

So, experiment with your particular printer to find what the printing column limits are, and start doing two-line headers.

Raymon Soto
246 Yorkshire Road
Tonawanda, NY 14150

Dear KUG,

To anyone needing more disk space, I can highly recommend the Pro-8 ROM kit (Micro Cornucopia, P.O. Box 223, Bend, OR 97709), which permits the installation of DSQD disk drives (such as the widely available TEAC 55F) having a formatted capacity of 784K.

The kit permits the use of any combination of two drives, SSDD, DSDD, and DSQD. In fact, using an inexpensive plug-in decoder board, the Kaypro "8" can access up to four drives, A, B, C, and D. (A similar ROM enhancement kit is supplied by Advent Products, 3154-F East La Palma Avenue, Anaheim, CA 92806.) In conjunction with the Writer's Guide (Interior Systems, P.O. Box 188, Joelton, TN 37080) program modifying PW, in particular allowing the ready expansion of its swap file to the maximum capacity of the disk, the Kaypro "8" becomes a tool capable of editing very large files with ease. For example, I recently completed my doctoral dissertation on my Kaypro "8," originally a Kaypro II. The largest chapter contained 81 pages (printed in 12 cpi type), 21 of which were single spaced. The PW .mss file occupied 168K on the 784K disk, and the corresponding .fin file 184K. I used Bigfoot (Athens Microcomputer Center, P.O. Box 5456, Athens, GA 30604) to produce my copious endnotes. The Bigfoot file occupied an additional 168K. As you can see, there was plenty of room left over on the disk.

It is not necessary to purchase expensive DSQD disks. However, a hint on the recycling of your used SSDD and DSDD disks is in order, something which is not mentioned in the documentation. It is necessary to use a bulk tape/disk eraser (mine is a Radio Shack #44-232) to eliminate any residual 48 TPI tracks from previously formatted disks. The DSQD 96 TPI read/write heads are too narrow to erase the wider DD tracks, causing read errors to occur.

Instructions were easy to follow, and both customer service and technical advice were excellent.

Arnold Wendroff
298 Marlborough Road
Brooklyn, NY 11226

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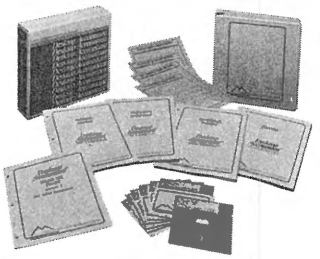

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Dear KUG,

WordStar CAN do multi-line headers and footers! The basic idea is do it without letting WS know you're doing it. Using DDT or the WS installation program, patch one of the User Functions to contain the code for a line feed (0Ah) and a carriage return (0Dh). For example, using User Function 4 in WS 3.3, patch in the following at label USR4 (06DE): 02h 0Ah 0Dh. In WS 3.0, USR4 is at location 06D8.

To create a multi-line header or footer, enter the text of the first line, then enter ^PR, and then enter the text of the second line, all without hitting RETURN until the end of last line. Make sure that word wrap is turned off so that WS does not insert a carriage return. Now you must remember that you have tricked WS into thinking that you have created a single-line header (or footer); therefore YOU must now compensate for the fact that there will be the extra line(s) on each page by reducing the page length by the number of added lines. For example, if you create a two line header and your page length was 66, you should now reduce the page length to 65 using the page length dot command (.pl65). You'll still get 66 lines per page, but WS will think there are only 65.

You may add segments of text separated by ^PR to create headers/footers that are even more than two lines. However, there is another restriction that WS places on you in this case: You may have only a maximum of 195 characters in a header (or footer) line, including the control characters. This is a hard limit. If you have a need for several long lines in a header or footer, you can reduce the length of the created header or footer line by patching another of the User Functions to contain a string of four spaces (04h 20h 20h 20h 20h) and using this control character (Space Function) in your created header or footer wherever you need four consecutive spaces. Now, instead of counting four characters, WS will count only one character each time you use the "Space Function," and you will be able to squeeze in more text.

Bert Green
8013 Winstead Court
Norfolk, VA 23518

Dear KUG,

I noticed several dangerous and inconvenient recommendations in Capt. Karl L. Sandwell-Weiss' column on static control.

1) Humidity is an excellent method to control static. Antistatic carpet spray also helps. All in all you'll see the best improvement with water.

2) As the Kaypro (or most other computers) uses a three wire AC cord, the chassis is already at "local ground," or power system ground. Pulling the chassis to a pure earth ground creates an almost certain hazard of common mode voltage on the computer ground system, with the computer in series between source and ground, resulting in increased susceptibility to power line noise and RFI. In cases where static is a prevalent problem, a quick disconnect ground lead connected to the keyboard with a one meg ohm resistor in series to ground will provide static control as well as limited common mode voltage. The resistor also limits the exposure of the operator to a direct ground.

3) Connecting yourself to a pure earth, or power system ground is perhaps the easiest way to obtain a fatal shock. Your computer, telephone, desk lamp, calculator, etc. all become sources of AC current. ANY connection between ground and personnel must be through a one meg ohm series resistor. This limits ground current to about one-tenth milliamp @ 120V, quite adequate to dissipate a high voltage, low current static charge. The importance of observing these guidelines cannot be overstressed.

4) A self-adhesive grounding pad, available from computer suppliers, consists of a 2 1/2" conductive disc with a ground lead and the proper series resistance for safety. The user simply peels off the backing, sticks the device on the computer or workstation and completes the connection to ground. The disk is touched each time a computing session is begun.

George H. Lovelace
1740 Hatteras Drive
Lexington, KY 40504

FOR YOUR EYES ONLY

Code Name: "Rambo" Real Name: "Turbo Lightning™"

User Groups find out Borland's secrets first, because you were the first to buy Borland products — and we'll never forget that. So we're telling you about Turbo Lightning before anyone else knows. (There isn't room here for the whole story, but you can read a fuller account in the COMDEX issue of PC Magazine).

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Dear KUG,

Re moving an MBasic program over to GW-Basic: Save the program with the A option (SAVE "filename",A) to put the file in ASCII format. When transferred, it could be read by GW-Basic and run with minor modification.

For an MBasic program saved without the A option, call it up with GW-Basic, save it with the A option, and then use the non-document mode of a word processor to replace incorrect terms with correct ones. The table below gives a partial list. Global replace makes the task easy, but be careful. Don't for example replace all ORs with >, since FOR and STORE also contain OR. Also, some of the variable names might get changed by accident.

File in GW-Basic shows this:	should be this:
XOR	=
\	*
MOD	-
EQV	<
OR	>
STEP	THEN
IMP	+
TAB(	TO
%	AND
VARPTR	INSTR
FN	STEP
USR	COL
:REM[	'
EDIT	ERASE
COLOR	OPEN
CLS	FIELD
*W	EOF
BLOAD	CLOSE
(blank)	OR
^X	OR
CLOSE (1)	RANDOMIZE
COL>	OPEN
MOTOR	GET
PRESET	NAME
SCREEN	KILL
KEY	LSET
BSAVE	PUT
LLIST	LPRINT
:TRON	ELSE
DEFSNG	DEFINT

Richard G. Dudley
Situng I, Blok A
Jorong 3, No. 165
Sumatera Barat, Indonesia

COMPARE II Review

by Mark J. Silvermetz

COMPARE II is a nifty program that compares one text or program source file to another and outputs the differences to screen, to printer, and/or to file. It can display the "difference blocks" of two files, either side-by-side or one after the other; and it can insert "change bars" into the left margin of one file to show where it differs from the other.

To use the program, you type "COMPARE filename1.ext filename2.ext" and add options, preceding each with a "/". COMPARE II gives you extensive control over the nature, extent, format, and destination of the comparison. "/CH", for example, will insert changebars into file1 at the left edge of text lines differing from file2. "/H" gives you horizontal reports in which the "difference blocks" between the files are displayed side by side; and "/V" makes the "difference blocks" display vertically. What you type after "/OU:" will direct the flow to wherever you want; e.g., "OU:LST:" will send output to the printer.

Other "/" options let you tell the program to include or ignore tabs and spaces, blank lines, case differences, and comment lines. Still others tell the program to compare word-by-word instead of line-by-line, and you can control the number of words or lines that must match before an END to a difference block is declared. Error trapping is okay, and it's hard to make a fatal mistake.

I like this program but I wish it would display the precise differences between files, instead of marking the general "difference blocks." And the terse manual seems written more for a programmer than a user.

Since I'm one writer/editor who's still struggling with the proper balance between disk and paper, I'm glad I have this program.

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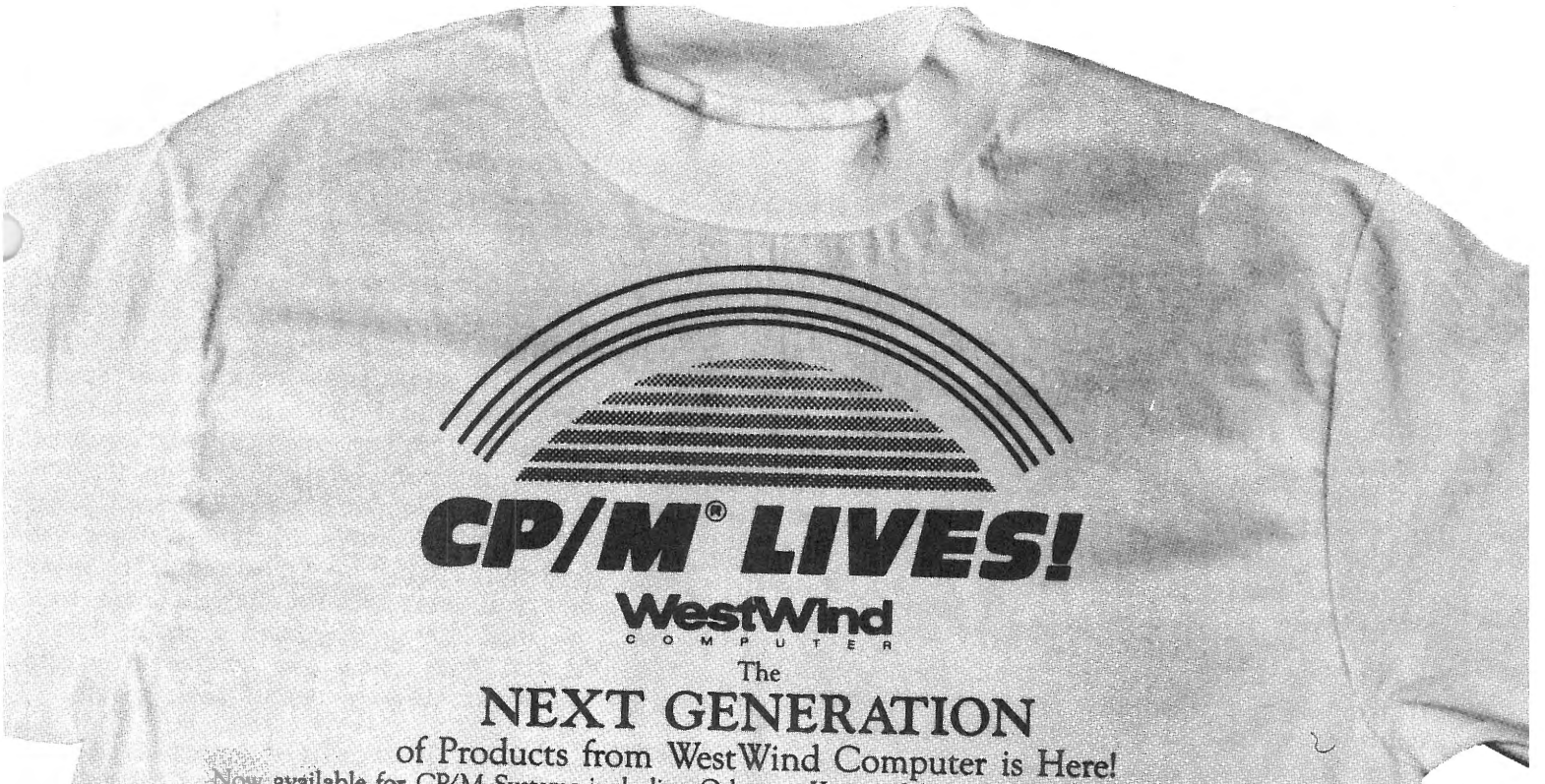

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MAGICSERIES Review

by Jack Ellis and Mark Silvermetz

MAGICSERIES is a powerful, sophisticated group of printing, formatting, and merging software that gives you near-typeset quality output and total control over the printed page. If you want your documents to look as if they just came off a printing press (newsletters, resumès, presentation pieces); if you do extensive mass-mailings (form letters, labels, lists, etc.); or if you want automatic, proportionally spaced indexes, footnotes, and tables of contents, then this is a program to seriously consider buying.

MAGICSERIES comes in three levels, each doing more than the next. MAGICPRINT contains all the basic formatting features and adds: true proportional spacing and micro-justification; multiple-line headers and footers; footnoting of up to 15 entries per page, with complete control over their appearance (though the program won't automatically do endnotes); automatic control over orphan or widow lines; global and local pitch control (kerning, as in: aabbbccc); manual or automatic multi-column printing (of up to four columns!); outdenting; print-time insertion of formatting commands; and dozens of other professional formatting features.

In addition to the basics ("boiler plate" insertion, data merging, form-letter production, etc.), MAGICBIND adds sophisticated merging features that include: a simple database set-up allowing print-time record selection; easy field selection, automatic numbering and re-numbering of chapters, sections, articles, paragraphs, lists, etc.; automatic data verification and handling of empty fields; personalized on-screen prompts; and more.

MAGICINDEX does everything above, including all the extraordinary formatting features, and adds multiple tier indexing (up to 255 levels!) and tables of contents. (See the MAGICBIND-INDEX Review, KUGRAM Vol. 3, No. 3.)

To use the program you write your text with WordStar or Perfect Writer (or Select, Newword, etc.), substituting the MAGICSERIES's formatting commands for those of your word processor. Then, you close the file, load and run MAGIC's print program. The command structure is logical and in many ways similar to WordStar's. Embedded print commands let you set margins without reformatting paragraphs, manipulate line spacing and character pitch, etc., anywhere in the document, or globally during print time. And MAGICSERIES gives you the option of using soft hyphens--important for printing narrow columns.

One major difference WordStar users will have to adjust to: what you see on the screen isn't what you get at print-out. Your Kaypro obviously can't show **true** proportional spacing (which adds about 10% more characters to a line); and the effects of MAGIC's "double-dot" commands controlling centering ("..C"), margins, line spacing, and the like, don't show up on the screen either. Perfect Writers are used to this; WordStar users will be too, after a few practice runs. We feel it's a price well worth paying. Fortunately, the program has a feature that does allow you to preview page breaks at print time--a useful compromise.

MAGICSERIES's excellent error-trapping saves you precious time and paper by halting printing at the error and identifying it on-screen. To correct the error, you just re-edit the file with your word processor, then start printing again from any page.

The hefty manual contains everything you need to master the program, but we found it stingy on examples and too brief when explaining some of the more complicated formatting techniques. Ironically, although MAGICSERIES was used to produce the manual, the layout doesn't look half as good as this powerful program and a little imagination could make it look. Nevertheless, after a few days of trial and error, we found ourselves performing its "magic" with little trouble. This review was written with WordStar on a Kaypro 2X, formatted with MAGICPRINT commands, and printed on a NEC 3530 printer using a Prestige Renown (modified) 12 cpi thimble (the same printer and thimble used for the rest of KUGRAM). To use MAGICPRINT, your printer must be compatible with either a Diablo 630 or NEC Spinwriter. Printing with a proportional element gives even better results. What you see here just scratches the surface of what this remarkable program can do.

MAGICPRINT lists for $195; MAGICBIND (which contains MAGICPRINT), for $250; and MAGICINDEX (which contains everything in the previous two programs), for $295--available for CP/M and MS-DOS from Computer EdiType Systems, 509 Cathedral Parkway 10A, New York, NY 10025, (212) 222-8148.

AUTHOR, AUTHOR Review

Author, Author, a group of "fixed-up" public domain utility programs intended for anyone who makes serious use of WordStar, is a very useful addition to any software library.

A key configuration program will reconfigure any key on the keyboard. There are programs to shut off the keyboard noise and repeat the previous command. There is a print spooling program and a file of instructions for patching WordStar to Epson printers.

The most useful program on the disk, worth the price of the whole disk, is a well-documented SWEEP program. This will squeeze and unsqueeze files, copy them, rename them, erase them (with suitable prompts to avoid disaster), and report on disk space. It takes up 12K of space, far less than the utilities it replaces.

Author, Author also contains outline and index programs intended to be used with WordStar, and provides exceptionally clear documentation for both. If you've ever typed an outline, swearing all the while as you miss a tab and have to go back, you will appreciate the simple command structure and nice looking results that this utility gives.

The disk also includes multi-format disk reading programs, which are an improvement over Uniform in that they contain more formats, are menu-driven, and can set either or both drives to read and write the new format (not just drive B). There are separate programs (both included) for Kaypro II's and 4's.

An exhaustive 49K documentation file gives good directions and clear examples for the programs which require them. None of the programs require graphics capability.

I had no trouble ordering this through the mail, and it came promptly. Author, Author, from Fourth Street Software, 14045 Dinkytown Station, Minneapolis, MN 55414, $10.00 plus $2.50 postage and handling.

Kathy Fladland
P.O. Box 282
Grafton, IA 50440

TURBO TUTOR

by T.F. Chiang

One of the various accessories for Borland International's Turbo Pascal is Turbo Tutor. This is a book and a disk of source code for learning how to program in Pascal. ($34.95; Borland International, 4585 Scotts Valley Drive, Scotts Valley CA 95066.)

The tutorial starts with a section for the absolute novice, which should be a good introduction if you are new to computers. The main section covers just about the entire Pascal language, starting with basic program structure and going up to pointers and file I/O. The last section covers advanced topics in Pascal (concentrating on system calls, etc. for MS-DOS machines).

The tutorial is, in general, excellent. It explains each topic far more clearly than most manuals or textbooks. What makes it even more valuable is the material on putting each Pascal statement or data structure in practice. Instead of simply describing the statement's function and usage, Turbo Tutor mentions what sort of hidden problems might arise when you're actually writing a program. The most efficient data structures for a particular task; the quirks of the Pascal language and of the Turbo compiler; when to use compiler directives; an explanation of cumulative round-off errors (in real number calculations); all of these are discussed. There are practical, helpful answers to "Why is Pascal like that?" and "What is that good for?" Plentiful examples of code are given in the book (and on disk, to save typing).

One flaw in Turbo Tutor is that there are occasional references to statements and structures which haven't been explained yet. Another is that the book, in covering so much, is too brief in certain areas (e.g. the chapter on pointers was insufficient for such a complex topic), and it has no room to discuss any algorithms. The text also lacks an index.

Overall, Turbo Tutor is a very good tutorial for those interested in learning Pascal.

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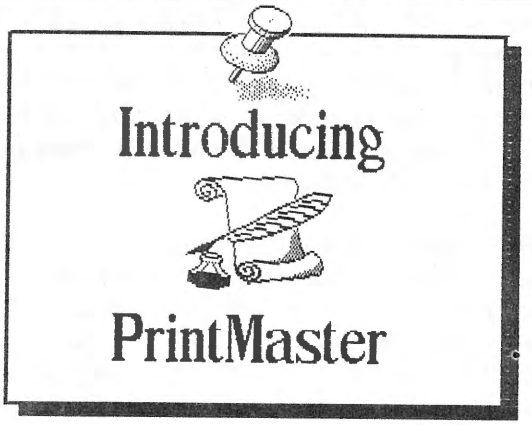

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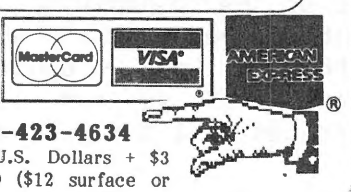

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Kaypro Upgrading

by Greg Platt - PeopleTalk Associates

As the owner of a Kaypro, you've undoubtedly noticed (perhaps with a bit of concern) that many of the world's computer experts are writing and talking about the demise of CP/M and the emerging dominance of MS-DOS.

You may even have noticed that the experts cite impressive sources and statistics as proof of this trend. What they've failed to realize is that the CP/M world hasn't noticed its death and in fact continues to grow almost monthly.

If you're planning a high-tech shopping trip but haven't been on one for a while, you'll be pleased to discover that there have been plenty of new developments in the past few months...

For example, a number of new machines offering CP/M as standard equipment are being built by foreign manufacturers. Among these "new wave" machines is the new Commodore-128 and a very impresssive entry into the lap computer market, the Bondwell-II.

The Bondwell portable is actually a full function (eleven pound) CP/M computer with 64k of Ram and 400k of floppy capacity on a single 3-1/2 inch disk. This marvel of engineering also includes the full MicroPro software bundle (WordStar, DataStar, CalcStar, ReportStar and MailMerge), a well designed keyboard, and a 25 line by 80 column LCD screen. It runs for eight hours (twice as long as the Kaypro-2000) on a single charge. Those who are interested in expandability will be pleased to know that the Bondwell-II offers a full range of add-ons including a 256k ramdisk and a built-in modem!

But for those of us who've been drooling over the Kaypro-2000, the most impressive thing about the Bondwell is what it DOESN'T have -- a big price tag! Believe it or not, you can pick up a complete Bondwell-II for just $995.

On other fronts, we've noted with interest a surprising number of new software products being offered for CP/M machines. These include a whole new generation of desk-top assistant software, like Write-Hand-Man (from Poor Person Software), Presto (from Spectre Systems), Extra Desk (from Point Data), Handy-Man (from Flo-Systems) and Plu*Perfect BackGrounder. Although some use large amounts of memory (up to 10k), they can be very useful. We'll have more to say about such programs in a future article.

Other new software introduced in the past few months: a new version of the Rembrandt graphics package for older Kaypros; printer graphics programs like SCS-Draw (Second City Software) and PrintMaster (Unison World and PeopleTalk); and brand new releases of old standards like SmartKey (Software Research Technologies).

And if you've been thinking about a PC-compatible system but hate to give up your CP/M software, look at the latest version of Media Master from Intersecting Concepts. This hot little number gives you a true dual mode computer which runs BOTH CP/M and DOS programs on a PC-compatible for under $100!

There have been CP/M "emulators" around for the DOS machines for quite a while, allowing a DOS system to use CP/M data disks and run CP/M programs. The trouble has been that such programs were quite slow -- making you suffer for the compatability. The new Media Master (with a hot new chip from NEC) runs both CP/M and MS-DOS software, and it runs CP/M twice as fast as a Kaypro-10 and four times faster than the old Kaypro-II.

If you use your computer for entertainment and/or education, a growing number of games and learning programs are available for the Kaypro. One of the newest introductions, from B.C. Software in Livermore, CA, includes a series of four graphics games -- the Desolation Collection -- and a new game, Trifle Pursuit. Unfortunately, these require graphics; they won't run on the older Kaypros. For younger kids you might want to consider the highly recommended "Kid Math For the Kaypro" from IFP Publishing in Ann Arbor, MI. In the entertainment category there are the InfoCom games: Zork-1, 2, and 3, StarCross, PlanetFall, Infidel, and the brand new "HitchHiker's Guide to the Galaxy."

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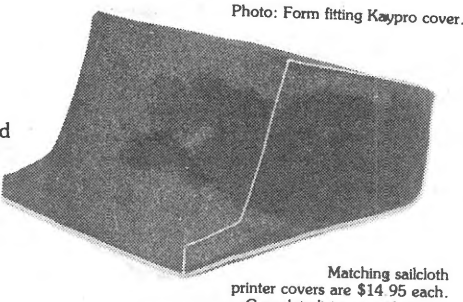

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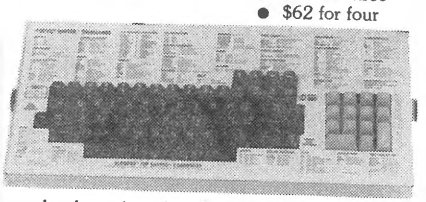

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The Kaypro has enemies. But now you can protect it from the mish mash of electrical currents that race through your home or business. Powerful up-surges of current can actually blow out your machine. Less powerful, barely noticeable spikes, surges, and noise can silently degrade your system in time, ruining chips, destroying data, and causing expensive service calls.

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.

Photo:
Panamax
6 outlets LC S RB NF.

PANAMAX SURGE SUPPRESSORS

Description	List	Price
2 outlets, D NF	$ 79.00	$ 59.00
4 outlets, LC S RB NF	$ 89.00	$ 69.00
6 outlets, LC S RB NF	$ 99.00	$ 79.00
UltraMax, LC S UA NF	$149.00	$ 99.00
TeleMax, D 1OL 2PJ NF	$ 89.00	$ 69.00

D: Connects direct to grounded wall jack.
LC: Includes 6 foot long heavy duty line cord.
S: Includes illuminated on/off switch.
NF: Includes EMI/RFI noise filter.
RB: Includes reset button.
OL: Includes outlet.
PJ: Includes 2 phone jack receptacles.
UA: Includes under voltage alarm/brown out protection.
All units include the added security of a 4 amp fuse.
Unique Panamax EMI/RFI noise filters provide protection in common and transverse mode. Essential for modem communications, multi-user stations, etc.
All Panamax units are factory guaranteed for 60 months.

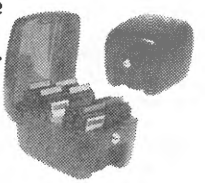
"Power line-associated problems are estimated to cause nearly 70 to 90 percent of the malfunctions in the IBM PC."

"Overvoltage can be fatal to both data and hardware alike."
P.C. Magazine, March 1983

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 comparatively slow 5 to 50 nanoseconds!

Check our regular low prices. Try the Panamax of your choice for 15 days. Receive the "Panamax Challenge Certificate" with your purchase. If not completely satisfied with your purchase, return for immediate full refund. Your Kaypro deserves Panamax protection, the best there is. Order today.

Lockable Diskette Defender



Handsome, sturdy, smoke-tinted acrylic tray holds 70 Kaypro-size diskettes. Flip-up lid keeps out dust, debris, and moisture, and locks securely to guard your important work. Comes with 7 dividers that make for easy filing and keep floppies upright to prevent bending, warping, and scratching. Tough metal lock never comes in contact with diskettes because it is enclosed in a plastic housing. Super value at $23 for one, or $21 each if you buy 2 or more. Keep prying eyes and sticky fingers away from your important data. Order today.

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Attention: Sorry XtraKey. XtraKey users who want to see definite power, turn in your master disk. Get a $10 credit.

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

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Multiplan		$ 75.00	$ 57.00
Wordstar		$ 75.00	$ 57.00
BORLAND INTERNATIONAL			
Turbo Pascal 3.0		$ 69.95	$ 58.00
Turbo Toolbox, Software Tools		$ 49.95	$ 44.00
Turbo Tutor, Step by Step		$ 34.00	$ 29.00
CDE SOFTWARE			
Checks & Balances		$ 74.95	$ 62.00
CHUCK ATKINSON PROGRAMS			
Quick Check + AR		$195.00	$149.00
Retail Inventory + Q Register		$395.00	$289.00
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— Recommended for comprehensive ease of use			
COMPUTER EDITYPE SYSTEMS			
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— All superior WordStar enhancers			
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StatPak	$495.00	$399.00
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Plu Perfect Writer CP/M 2.2E	$ 39.95	$ 34.00
Backgrounder	$ 45.00	$ 39.00
CP/M 2.2E only	$ 32.00	$ 29.00
Date Stamper	$ 39.00	$ 34.00
Data Stamper, General CP/M	$ 49.00	$ 42.00
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QUIC-N-EASI PROD.		
Q-Pro-4	$595.00	$395.00
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SAN FRANCISCO COMP		
Power!	$149.00	$ 99.00
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SOFTWARE COUNTRY NEW		
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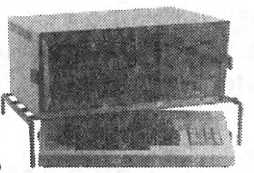

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Sysop's Corner

by Frank Fallon

Once you get on-line with any system - a local BBS, an RCP/M (a remote CP/M machine), or a gigantic database such as CompuServe or The Source - you are actually communicating with TWO machines. You must give instructions to your own Kaypro and also to the remote machine. You now have two sets of switches to flip through. Thus when you are in the data file area of a remote and you want to XMODEM (download) a program, you must first tell the remote to send the program and then tell your Kaypro to receive it.

Let's suppose you wanted to download a file called ZIPP.LBR. From the user area which contains the program you enter:

XMODEM S ZIPP.LBR <CR>

At this point many new users think their machine has gone off to lunch as nothing happens. All they have done is told the remote to send the file. The remote will tell them that it is "awaiting" and unless the user instructs his own machine to receive the file, the exchange will NEVER take place. After a time the remote will disconnect and leave the new user in limbo. The user MUST instruct his machine to receive the file. Get back to the command line (usually with a Ctrl-E or ESC...E) and enter:

R ZIPP.LBR <CR>

The LEDs will flicker and the CRC numbers will change and the file will be written to disk magically by MDM740 or MEX.

Uploading a file is just the reverse. You tell the remote to Receive the file and your Kaypro to Send the file.

For those who want to do some reading before they get on-line, I might suggest three books: How to Get the Most out of CompuServe, a $14.95 Bantam Book by Bowen and Peyton, The Free Software Catalog and Directory by Robert Froehlich, a $9.95 Crown book; and the new revised second edition of Alfred Glossbrenner's The Complete Handbook of Personal Communications from St. Martin's Press for $14.95. The last one has my best buy rating.

In previous issues we discussed CP/M's various transient and resident programs. Since we do have a tendency to create extra work while using the computer, I thought it would be a good idea to review some of the resident commands and perhaps use a method of remembering them.

DIR - gets the directory of the disk and places it on the screen.

USER - brings you to different user areas on the disk. USER 0 to USER 15 are available.

SAVE - allows you to SAVE to a file whatever is in memory at the time of use. Ex: SAVE 0 <filename.ext>.

TYPE - puts ASCII files on the screen for you to read. TYPE <filename> scrolls <filename> on the screen. Use Ctrl-S to stop scrolling.

ERA - erases files. ERA *.* will ERAse all files on the current disk. You will be asked, "ERASE ALL Y/N?"

REN - lets you REName a file. Always type the new filename first. Ex: REN newname.doc = oldname.doc.

Notice that the first letter of each resident command has been underlined. Should you develop some cobwebs regarding what is available to you whenever you are using CP/M, just remember to use the D-U-S-T-E-R !!

A few other things to remember regarding CP/M files are:

FILENAME can be 8 characters or less;

FILETYPE can be 3 characters or less;

Ex: 12345678.123

However, you may not use the following characters:

< > , ; : = ? [ ]

MICROTOOLS Review

by Arlene Smith

MicroTools is a collection of more than sixty programs that can be run independently, or under control of a "shell". The shell is a standardized environment that takes over where the operating system leaves off. It provides enhanced CP/M-like commands, and some functions that CP/M doesn't have, such as setting and printing the time and date, setting a search path for tools on a different directory/user area, a calculator, and paginating files to the terminal (no more CTRL-S) or the printer.

Installing the shell is simple. So is entering it: just type "sh". Calling a tool is also easy: just type its name either at the shell prompt (%) if you're in the shell or at the system prompt. The tools seem to emulate or enhance those of CP/M and MSDOS, and work under the Unix-like environment of a shell.

Most of the tools have a range of options to enable you to do what you want. Most of the tools let you direct output to the terminal, another file, or the printer. "Tee" lets you do two or more things with one command. In one command line, you can "pipe" the output of one tool into the input of another. All the tools are easy to use, some are impressive. All the tools I tried worked the first time. I used some of the tools to create this review. The manual is pretty decent also.

For basic text entry and editing, use "e". This line-oriented editor (most word processors are screen-oriented) is more powerful than CP/M's "ed". Other tools let you transliterate characters (i.e. change upper case to lower), merge lines of files together, number lines, search and replace text, count lines, characters and words in a file, nest files, and paginate pages for printing or for display to the terminal. There is a tool to concatenate files, and another to split a file into smaller ones.

Text formatting tools include "pl" which lets you print specified lines and/or pages, "form" to generate form letters, "mcol", a multi-column formatter, and "wc" which counts lines, words and characters in a file. "Entab" and "detab" let you convert spaces to tabs and vice versa. "Format" lets you set a print format which includes top, bottom and side margins, and headers and footers that can print on odd or even pages and be centered, left or right justified.

Disk handling tools include "archive". This tool collects text files into one big file, and maintains that file as a archive. Files can be extracted, edited and reinserted into the archive. Archiving saves disk space and lets you keep related files in one place. "Cpress" and "expand" will compress and uncompress files. There is also a tool to encrypt and decrypt files.

To get an idea of the power and flexibility of the tools, look at the following sequence of commands:

```
tr <doc A-Z a-z |@
tr !a-z "@n" |@
sort |@
uniq -c |@
sort -r >histogram
```

This sequence converts letters in file doc to lower case, discards numbers punctuation and spaces and puts every word on a line by itself, sorts them counts the number of occurrences of each word, and finally outputs the occurrences, thus producing a simple histogram of word usage.

If you want to write your own tools and you have a Fortran compiler, you'll be interested in "ratfor", a Fortran preprocessor. Several other tools are provided to make your programming tasks easier. There is a macro processor available that does not require ratfor or Fortran.

This is a powerful, useful set of tools. Although many of these tools exist in other forms in the public domain, this package puts them altogether in a convenient easy to use, well-documented package. And don't forget the tools that you can't find so easily, if at all, anyplace else. There is a version for MSDOS. MicroTools sells for $89.95. It's available from Rocky Mountain Software Systems, 1280-C Newell Ave, Suite 147, Walnut Creek, CA 94596.

In our last mission we completed the FORMGEN Definition file, NAMES. In this mission, we'll take a final look at the Definition file and get a printout of it. Then, we'll use the form to (finally) start entering data. Last, we'll take a look at the file.

NOTES: <CR> = press the RETURN key.
<key name> = press the indicated key.
underlined text = text entered by you.

Preparation: Boot up your system and insert disks in the proper drives. Prepare your printer; use fan fold paper.

Task 1: Review Definition Form and print it out.

At system prompt: FORMGEN <drive:>NAMES
We'll use a command on the last line ("OTHER:") to print the form. (It's a good idea to have such a printout either for review or to plan revisions.)

CTRL-W The printout shows in hardcopy all the fields in the record and any attributes you have assigned to them.

Task 2: Use the Form in DATASTAR to enter data.

If you are still in FORMGEN:

CTRL-CD (Form done; Leave FORMGEN and chain to DATASTAR) (Enter the commands slowly to see the prompts.) Then, respond to file name prompt with NAMES

If you are at the system prompt:

DATASTAR NAMES

At the prompts, indicate the drives on which the .DTA and .NDX files should be stored. (Do NOT press <CR> for either prompt.)

The DATASTAR main menu will display. The first line says "ADD MODE" at the left, and "current form=NAMES" at the right. If records were added in previous sessions, the cursor is at the last menu selection "SPACE=current mode." To enter the form, <spacebar>. If no records are in the file, the cursor will be on the first space of the Last Name field.

Enter a last name. (Test your attribute assignments -- enter data in lower case; enter less than 2 characters; enter other than A-Z or a-z.) Correct errors with either CTRL-G or DEL. If you did not fill up the field, <CR>.

Enter the rest of the data. To skip a field, <CR>. Notice that when you fill up a field (such as a two-letter state), the cursor automatically moves to the next field. Where you did not assign a field attribute of forced capitals, entering lower case displayed lower case.

When you get to the last field (IDNO), a "1" is displayed. If this is the first record you are entering, the cursor is in the field. You may enter a new number, or keep the displayed one. If not the first record, DATASTAR displays whatever the new number should be and cannot be changed by you.

<CR>

Respond to the prompts to alter, delete or save the data for this record. Then, continue entering records. Two or three will be fine for this mission.

Leave DATASTAR:

CTRL-EEC (Press slowly to see prompts.)

From the system prompt, look at the directory entries for the new file:

DIR <drive:>NAMES.*<CR>

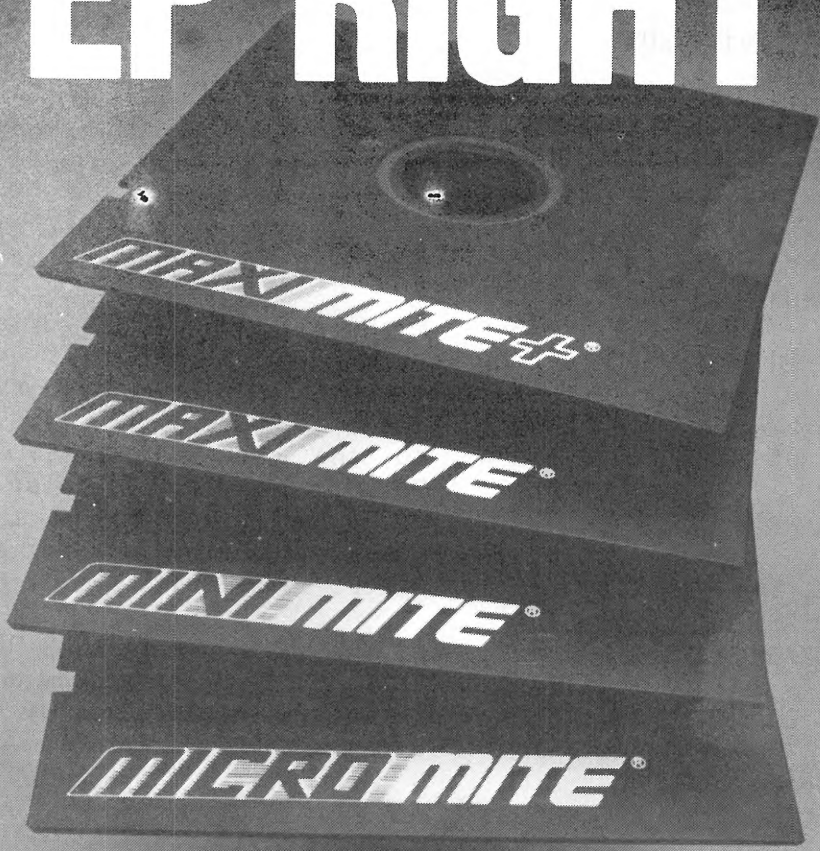
Your disk should show two DATASTAR files: NAMES.DTA and NAMES.NDX. Let's look at the data file:

TYPE NAMES.DTA

Each record is on its own line. Commas separate each field, whether data was entered in the field or not. The last line of the file shows a couple of strange blips and a bunch of commas. There is one less comma than there are fields in the record. Do NOT delete this line.

Next time, we'll use the file with another MicroPro program to print mailing labels. 'Til then, why not re-enter DATASTAR and add more records.

STEP RIGHT UP



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Vendors

MULTI-LINGUAL WORD PROCESSING
from
Techware
474 Willamette St., Suite 201
P.O. Box 10545
Eugene, OR 97440

COMPUTER GRAPHICS
from
Frank-Art
P.O. Box 12282
Boulder, CO 80303-2697

MULTI-OUTLET POWER STRIP
from Volt-Guard, Inc.
400 23 Street South
St. Petersburg, FL 33712

LOGO FOR KAYPROS
from
Microsphere, Inc.
P.O. Box 1221
Bend, OR 97709

FILESIFTER: IDEA ORGANIZER
from
M.B. Stevens
P.O. Box 50094
Austin, TX 78763

---

* FREE-FORM DATABASE SYSTEM
from
Seaside Software
538 Parade Drive
Corpus Christi, TX 78412

---

* RANDOM HOUSE DICTIONARY AND THESAURUS
from
Reference Software
2363 Boulevard Circle
Walnut Creek, CA 94595

---

* MULTI-TASKING, CONCURRENT PROCESSING
from
SoftLogic Solutions
530 Chestnut Street
Manchester, NH 03101

---

* MS-DOS

###

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

Although DOS is a very "serious" operating system, there are some features that make it "fun" to work with.

One of these is the resident command "PROMPT." Let's see how it works.

Place your DOS disk in drive A. At the A> prompt type PROMPT HELLO <return>. What happened to the A>? It was replaced with the word HELLO. Every time you come back to the prompt it will greet you with HELLO. However, whenever you change drives you will not know the drive letter because the prompt is not A> or B>, it is HELLO. We will fix that right now.

At the HELLO prompt type PROMPT <return>. There's your A> prompt again. Now let's put something more useful in the prompt area.

At the A> type PROMPT Current Directory is p_Command:<space><return>. WOW, not only do you have the A> prompt back, but you can now know the current drive as well as the current directory and sub directories. Notice that this prompt is also on TWO lines. That was done by using the underscore between p and Command:.

Here are a few more for you to try. Type the following (one at a time):

PROMPT DATE IS D <return>
PROMPT TIME IS T <return>
PROMPT CURRENT DRIVE IS N <return>

Remember that if you place the underscore between commands, you will be able to place as many lines as you need for the above information. If you get tired of seeing all that stuff, just type PROMPT <return> and DOS will come back to the original prompt (A>).

When you re-boot DOS, the prompt you developed will not be there; it is a temporary resident command. In a future issue we will learn how to start the computer so that the prompt you want will always be there.

Kug Tee Shirts Are Here !

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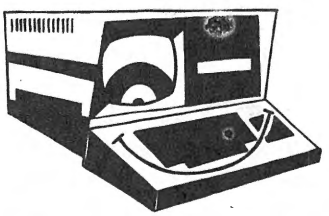
KAYPRO USERS' GROUP

T 100

T 200

KUGGERS DO IT



ON A KAYPRO!

T 300

KUGGER'S
EXCUSE
GRAM

- ☐ SWAPPING... SWAPPING... SWAPPING...
- ☐ DRIVE A -- DROVE DRIVE B -- INTO DRIVE C
- ☐ CURSOR -- GOT 3 DAYS OFF FOR... "CURSING"...
- ☐ SLIPPED A DISK
- ☐ BLEW A FUSE

T 400

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

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

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WORDSTAR by Chiang

NON-DOCUMENT MODE

One of the features of Wordster that doesn't get much attention is the non-document mode. This is the mode accessed by that "N" on the Opening Menu, and it has its share of uses. It can be used with Mailmerge, for instance, which we will go into next time.

What distinguishes the non-document mode from the ordinary document mode? Roughly, the non-document mode acts more like a line editor instead of a screen editor; in formatting, it treats text in terms of lines as opposed to paragraphs, pages, etc. It by no means resembles CP/M's ED, though, since it retains most of the editing capabilities of the document mode.

The first visible difference on entering non-document mode is the status line. Instead of having the cursor position in pages, it gives the position in characters and in lines. Here you see how it treats text on a more basic level; that character count includes all carriage returns and line feeds. You'll also notice the lack of a ruler line, which brings up the next (and biggest) difference of non-document mode: the lack of word wrap. When you type a long line, the cursor doesn't automatically move down to the next line when you reach the right hand side of he screen. You just keep on going, with the text scrolling sideways until you hit the carriage return.

Normally, WordStar puts a soft carriage return in your text when it runs past the right margin. In non-document mode, only hard carriage returns exist, the ones that put the "<" at the far right of the screen. Just as on a typewriter, you have to hit RETURN to go to the next line. What's the good of that? Isn't that more inconvenient? Not always. If you're writing a computer program, you won't want a long line of code wrapping over to the next line; you'll want to move down only when you hit return.

Writing a program is a good use for non-document mode, because non-document mode lacks all the things that you won't want to have while editing a program.

There is no justification (since there is no right margin to justify), no hyphen help, and no paragraph reform. All tabs are a fixed length, eight spaces long. In document mode, the TAB key produces a string of five spaces (depending on where one is set). However, the true ASCII character for a tab is eight spaces long, and is a single character (like a return). You can enter an ASCII tab character in document mode by typing Ctrl-P I. Try editing with fixed tabs; watch how the cursor jumps over the tab characters.

This brings us to the matter of true ASCII text. WordStar files are not pure ASCII (the seventh bit is used); that's why they look so funny when TYPEd. But the non-document mode produces pure ASCII, just like other word processors. WordStar uses the funny characters in its normal text for its features like justification and hyphenation. Because non-document mode doesn't have those, it can produce ASCII program files, which compilers like to use for input.

For matters oriented more toward word processing, non-document mode is still useful. The program Mailmerge allows one to use a datafile, of names and addresses for instance, and print out a series of customized form letters using those names. Non-document mode is what is generally used for creating those datafiles. Why is it more appropriate than document mode for entering your data? Because you have to keep all the data that is supposed to go into an individual letter on a single line (and have a separate line for each personalized letter you intend to print). If the information that will go into that letter needs a long line to fit it, document mode will wrap it over onto the next line. The soft carriage return inserted looks like a hard return to Mailmerge, and it thinks you want to go onto another letter then. We'll talk more about the specific formatting of a data file next time, but one basic rule is that Mailmerge prefers to work with files created in non-document mode.

If you ever have to type data files for other programs, like other -Star programs from MicroPro, they are also best done in ASCII, so non-document mode is again what is called for.

In Response ...

...The "u" in KUGRAM is the Greek letter M (mu). It stands for "micro." Our name could be read as either KUGRAM or K-micro-GRAM.

...When you send disks or tapes by mail, do NOT wrap them in aluminum (or other) foil. If you do not have a disk mailer, try sandwiching the disk between cardboard, and use a manila envelope.

...Some of the older programs in the KUG library, and bundled software from previous Kaypro models, may not run properly on the Kaypro models with Universal Rom. If you are having problems running programs with the Universal Rom, you may want to discuss with your dealer the possibility of replacing the rom chip with another (previous) version of CP/M.

...KUG does not have wiring diagrams for any Kaypros. If you need/want one, see if your dealer can help.

...If you are having trouble cold booting disks that used to work fine, you may have a problem either with the disk drive being out of alignment, or with the disk controller chip.

...If disks you format on your machine cannot be read on someone else's, it is more than likely that one set of disk drives is out of alignment. You will probably have no trouble reading them, since the disks were created by the out-of-alignment drive. These disks may not be readable on another set of Kaypro drives.

If you have your drives realigned, be prepared for the possibility that disks created prior to the realignment may no longer be readable. You may lose some or all of your data. Before proceding with the realignment, you might want to arrange to upload (by modem or null modem) to another Kaypro any files you cannot afford to lose.

* * *

An Invitation To Join The W/P Users' Group

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

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

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

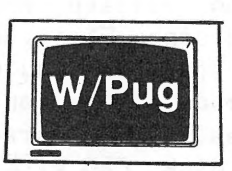
Reviews of the latest word processing software;
Basic tutorials and hints on using W/P software;
Tutorials on using the operating systems for W/P;
Special columns devoted to business, professional and educational writing ... for the secretary, too;
A vendor column of W/P software suppliers;
Box 144,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

In addition, we plan to operate our own national Bulletin Board system. This information and the best of W/P-BB will be printed in the newsletter.

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

Become a charter member and learn how many other writers are saving time and effort while producing professional documents on their computers.
JOIN NOW!!

Please make checks payable to W/PUG and mail to:



W/Pug
P.O. Box 144
Malverne, NY 11565

National KUG Disks

The KUG Library Listing, which gives descriptions of 56 Disks (#101 to #158), is available free of charge to members for a self-addressed business-sized envelope with 39 cents postage affixed. Mail your request to KUG Library, Box 100, Malverne, NY 11565.

We will continue to publish detailed descriptions of disks not yet included in the Listing, starting this issue with Disk #159.

DISK 159: YANC

YANC-23.COM; YANC-23.DOC; YANCTERM.ANS; YANCTERM.APV; YANCTERM.H89; YANCTERM.MA5; YANCTERM.NSA; YANCTERM.PRM; YANCTERM.SAM; YANCTERM.SB; YANCTERM.SOR; YANCTERM.VEC: This is a single integrated catalog program (called "Yet ANother Catalog"). Written in C, it has files to configure for various terminals. It presents a menu, allowing creation of the MAST.CAT file, entering the volume label file, updating the catalog with each new disk, finding a certain file(s), listing a volume's contents, or listing the entire catalog. One can also alter the default drives for the MAST.CAT file and the new disk volumes, and one can list to the printer. Help screens are available at all times.

DISK 160: ULTIMATE MODEM

M730KP .ASM ; M730KP12.COM ; M730KP3H.COM 19k; M730KP3N.COM 19k; M7BELL .MSG 1k; M7FNK .COM 3k; M7FNK .DOC 2k; M7FNK .NOT 3k; M7KP2H12.ASM 11k; M7LIB .COM 2k; M7LIB .DOC 3k; M7NM-6 .ASM 6k; M7RUB .MSG 2k; MDM730 .COM 19k; MDM730 .DOC 39k; MDM730 .MSG 4k; MDM730 .NOT 3k; MDM730 .UPD 4k; MDMLNK .COM 2k; MDMLNK.DOC; OVERLAY.DOC: Here is the latest version of the program MODEM730, the classic by Irv Hoff. He says that this will be the last version, and any new improvements will be under a different name. The documentation file has been revised and is up to date for this version. Features include auto dial and redial, auto disconnect, terminal modem, up- and downloading capabilities, buffered printing or saving to disk, CRC error checking, function keys, and a three-screen help menu.

The program must be customized with an overlay file for use on a particular machine; here there are three working versions, all customized for Kaypros. They are meant to work with a Hayes 1200 baud, a Hayes 300 baud, and a non-Hayes 300 baud modem; none will work with the Kaypro 4's internal modem. An .ASM overlay file and instructions for installation are included, in case you want to do specific work. Included as well are programs to change the phone numbers in the program library, and to change the program's function keys. Other files give information on miscellaneous patches.

DISK 161: K-4/84 UTILITIES

DDRAW.COM; DDRAW.DOC; DDRAW.NOT: Written in Turbo Pascal, this is a graphics drawing program. You draw with a resolution of 100 x 160 pixels. Commands are available for drawing lines and circles; shapes can be filled, and text can be mixed with graphics. Graphics can be saved on disk or printed (with a Gemini or Epson printer); subpictures can be defined and saved separately.

DU-V87.DOC; DU-V88.ASM; DU-V88.COM: The latest release of Ward Christensen's Disk Utility, which allows you to do low level operations on your disk. You can move around by sectors or tracks, change bytes in the directory or in files, move sectors, or otherwise alter disk data.

EDIT.COM; EDIT.DOC: A multi-function disk utility which acts as an extended directory program, a file copier, a simple memory address patching program, a file printer, and a line editor.

FBAD56.COM; FINDBAD.INF: Another version of FINDBAD.COM, the program which checks your disk for bad sectors and creates a file called UNUSED.BAD composed of those bad sectors. Those sectors are thus made unavailable for use by other programs, so a bad disk can still be used without producing "Bad Sector" error messages.

TIME.ASM; TIME.DOC: This is a program (to be assembled) that accesses the internal time clock in the Kaypro 4-84. When executed, it clears the screen and prints the date and the time in two lines on the screen.

Library

#101 PAC-MAN & CHESS (Games)
#102 ELIZA & GOLF & MISC. GAMES
#103 MODEM795 for tel. comm. (Modem)
#104 HELP CP/M, MBASIC + Others (Helps)
#105 UTILITIES 1
#106 ADVENTURE (Games)
#107 STATISTICS
#108 MBASIC MYSTERY (Games)
#109 UTILITIES 2
#110 POSTER PRINTOUTS (Pictures)
#111 KAYPRO 10 GRAPHICS
#112 HELP PERFECT, SBASIC, Etc. (Helps 2)
#113 SBASIC & MBASIC PROGRAMS (Business)
#114 LITTLE BLACK BOOK (Directory)
#115 STAR TREK + 15 MBASIC GAMES
#116 MULTI-FORMAT DISK FOR K II, IV & 10 (Multi-format disk runs on CP/M only.)
#119 CONCENTRATION + 15 MBASIC GAMES
#120 HP CALCULATOR + MISC.
#121 STANDARD FORTH (Language)
#122 SOURCE FOR FORTH (Language)
#123 WP & PC UTILITIES
#124 UTILITIES 3
#125 HANDY (Time Management)
#126 ASTRONOMY (Science)
#127 PC & PW UTILITIES
#128 KAREL THE ROBOT (Language)
#129 MONOPOLY + MBASIC GAMES
#130 MASTER CATALOG (Catalog)
#131 LOGO GENERATOR/EPSON (Business)
#132 SUPER UTILITIES 4
#133 STATISTICS 2
#134 STATISTICS 3
#135 STATISTICS 4
#136 STATISTICS 5
#137 STATISTICS 6
#138 FRANKENSTEIN (Game)
#139 LITTLE BLACK BOOK (MBasic update)
#140 FILE CARD DATABASE
#141 K10 HARD DISK UTILITIES
#142 ACCOUNTING PACKAGE (Business)
#143 DISK MANAGER + (Utilities)
#144 WORD PROCESSING + (WP Utilities)
#145 TYPE & MATH--MBASIC (Educational)
#146 UTILITIES 5
#147 PF & WP UTILITIES
#148 SCREENWRIGHT (Format)
#149 VEGAS (Games)
#150 MONEY MANAGEMENT (Business)
#151 OUTLINE (Business)
#152 SUPER LABELS PROGRAM (Utilities)
#153 FLIGHT FANTASY (Games)
#154 UTILITIES IN PASCAL
#155 TELE/DEVICE/DEAF (Modem)
#156 MEX II (Modem)
#157 RCPM REVEALED (Modem Utilities)
#158 KREEP (Database System)
#159 YANC (Catalog)
#160 ULTIMATE MODEM (Modem)
#161 K-4/84 UTILITIES #1
#162 20 PRINTER P/W CONFIGS (Utility)
#163 SIMPLE DATA BASE SYSTEM (DB Utility)
#164 POOR MAN'S RCP/M SYSTEM (Modem Util)
#165 EASY BOOKKEEPING (Business)
#166 FAMILY TIES 1 of 2 (Genealogy)
#167 FAMILY TIES 2 of 2 (Genealogy)

* #168 DJIPLOT (Business)
* #169 DRAWFONT (Graphics)
* #170 BASIC ARITHMETIC PROG. (Educational)
* #171 FUNDISK

\+ #701 PC-UTILITY & CATALOG (Utility)
\+ #702 CHESS & CASTLE (Games)
\+ #703 OUTER SPACE (Games)
\+ #704 PC-TALK (Modem)
\+ #705 PC-ACCOUNTING (Business)
\+ #706 SIDEWAYS (Printer Utility)
\+ #707 PCYEARBOOK (Business)
\+ #708 FULL SCREEN EDITOR (Editing Disk)
\+ #709 FAMILY TIES (Genealogy)
\+ #710 PC-WRITE (Word Processing)

* New contributions
\+ MS-DOS disk

New Library Disks

Following are descriptions of files found on the disks that have recently been added to the KUG Library. Most disks contain more programs than are listed here.

#168--DJIPlot: SBasic program plots the weekly closings of the Dow Jones Industrial index, including the 52-week and 39-week running averages. The program can be converted to other purposes. It was written for a Gemini10, but it can be adapted to other printers.

#169--Drawfont: A character design program for the Epson FX-80. Characters are "drawn" on the screen within a rectangle.

#170--MBasic Arithmetic: Practice programs, number guessing games, and a program that produces a hardcopy arithmetic test (with answers).

#171--Fundisk: Humorous pieces (poems, puzzles, essays, dialog, how-to, etc.) about various aspects of computers and computing. Files can be read on the screen or printed out.

Best of KUGBB

I have used Reportstar to print mailing labels with good results. Start by setting up a *.RPT file using Redit. When you get to the report layout screen use dot commands to set the "page" length, top, and bottom margins for the labels you are using. Then define the fields to pull in the required information from the data file, but DO NOT print these lines. (Leave the "." in the first column.) Below these temp fields lay out the label as you would like it to print. Take the info from the temp fields and load them in the printing fields by calling them calculated fields during the ^R process. I use the join string command to combine City, State and Zip on one line. If you just try to print the fields directly from the data file, Reportstar pads each field to the max defined length. This might sound more complicated than using Mailmerge, but it has worked well for me, and I'm more impressed with Datastar/Reportstar each time I use it. This procedure should be simpler than Mailmerge if you have many fields in your database.
--Bob Englert

To boldface in BASIC or many other languages, you just print the line, followed by a carriage return (character 13 decimal) followed by the line again. In BASIC, be sure to use semicolons:

```
LRPINT A$;CHR$(13);A$
```

The carriage return character <CR> causes the printhead to move back to the beginning of the line without moving the paper at all. So the end effect is that you print the line a second time right on top of the first one, hence boldface. If you just want to boldface a single character, you can do so with character 8 (back space). For example:

```
LPRINT "X";CHR$(8);"X"
```

would print an X, back up one space, and print a second X right where the first one is. On a semi-related note, LF (character 10) is a line feed without carriage return. It just moves your paper up one line. Some printers and terminals automatically add on a carriage return when they do a line feed.
--Aaron Contorer

Can anyone give me some ideas how to get a program in BASIC to print out to the serial port on a 2000? I have already set up a "MODE" file to take care of output in MS-DOS and have added an OPEN "COM1 line to the beginning of the basic program. The printer works fine under WS and PRT SC, but when it gets to a "LPRINT" line in basic, I get a "DEVICE UNAVAILABLE" message.
--John Keppy

Citibank finally caught on! They now have direct access for Kaypro users. I have successfully accessed my bank records. It's about time. They also offer an 800 number and you may access Dow Jones via their system.
--Mike Sloggatt

This is a tip for those who have been using DDT to debug a program and accidentally warm booted. Type "jump 15" (actually 10-30) and you will be back in DDT.

And a tip for Adventure players: Load DDT with ADV.COM. If the byte at 73E8 is 13, change it to 01. Thereafter, if you restore a saved game, it will not be deleted. To play, either give the command "G100" or exit DDT and give the command "SAVE 144 ADV1.COM." You will have to hit a key after saying "RESTORE."
--Jack Johnson

Perfect Filer can search a database with the equivalent of a logical "and" function. This is what it is doing when you define a subset and require that information in two fields match the subset definition for the record to be selected. Does anyone know of a way to fake Perfect Filer into doing a logical "or" search? A simple example: to select records where the state matches "MO" OR the city matches "St. Louis." This function would satisfy most of my needs.
--Terry Quinn

[Editor's Note: Many people accessing KUGBB have shown an interest in a user group for writers. The Word/Processing Users' Group is currently working on the first issue of its newsletter, The Scroll. In addition, the W/PUG Bulletin Board will be on-line this month (January, 1986). For more information, write to W/PUG, Box 144, Malverne, NY 11565.]

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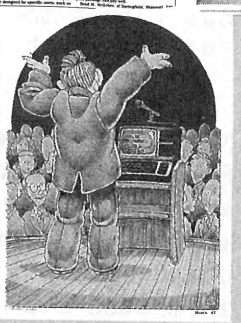

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How to Make a Working Copy of a KUG Library Disk

Kaypro II and 2-84 owners: Master disks are in SSDD format. Use COPY.COM on the CP/M disk to make a copy. In case it does not work properly, use PIP.COM (see below).

Kaypro 2X and 4 owners: Your computer can read the SSDD disk, but you cannot use COPY.COM to copy it. Use PIP.COM instead:

1. Put the CP/M disk in drive A and use COPY to format a new, blank disk in drive B. Exit (type e) from COPY.

2. With the CP/M disk still in drive A and the new formatted disk still in drive B, at the A> prompt type PIP <CR>, and when the * prompt appears, type in the following: b:=a:pip.com <CR>.

This will transfer a copy of PIP from the CP/M disk to the disk in drive B. In other words, you are using PIP to copy itself onto the new formatted disk.

3. Take both disks out of drives A and B. Press the reset button on the back of the computer. Put your CP/M disk away.

4. Put the new formatted disk (which now has PIP as well as the CP/M operating system on it) in drive A. Put the KUG Library disk in drive B.

5. At the A> prompt type PIP <CR>, and when the * prompt appears, type the following: a:=b:*.* <CR>.

PIP will copy all the files from the KUG Library disk in drive B to the new formatted disk in drive A.

6. If you get a message such as: "Bdos Error on d:Bad Sector" or "Bdos Err on d: R/O," DON'T PANIC. It does not mean the KUG disk is bad or defective. It means that at some point you have changed disks but forgot to warm boot the computer. Follow the above instructions exactly.

Kaypro 10 owners: Your computer can read SSDD disks. Place the KUG disk in drive C and warm boot. PIP the files from drive C to drive B. Put a new formatted disk in drive C. Now PIP the files onto the new formatted disk in drive C.

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Al Gerson, Editor and Publisher

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