

KUG IS NEW SIG TO GO ON COMPUSERVE

What is a SIG? It means Special Interest Group and we are the Kaypro Special Interest Group. But more than that, it means that all you KUGGERS will be able to get "on line" quickly. No more listening to busy signals while waiting to get onto the KUG Bulletin Board. No more long distance phone bills (except Chicago, of course). You may have a local phone number that will connect you to the central Compuserve computer.

It also means that software can be "downloaded" and "uploaded." You will be able to send and receive programs to and from our Library without tying up the phone lines.

For those of you who do not know about Compuserve, it is an electronic service that is accessed by modem through the telephone system using your computer and modem software such as Modem 795. Compuserve sells a starter kit that gives you a "password" and user ID to get onto the system and full instructions on how to use its many advantages. KUG will be offering these starter kits at a discounted price of \$35.00 (Regular price is \$39.95).

Compuserve also offers many other features such as Text Editors, Word Processors, Utilities, C.B. Simulator, Games, Spreadsheets and much more. You can also access other SIGs such as the CP/M Users' Group and other computer groups. You can also be in contact with other interests such as Ham Radio and Aviation. Stock market information is also available.

With your subscription to Compuserve you also receive the TODAY magazine.

Now, what else can we do with such a great service to benefit KUGLAND?

We can have KUG special groups meet on special days through conference networking on Compuserve. Groups such as Writers, Professionals, Hobbyists, Students and programmers could hold their own meetings through the Kaypro and modem. Their meeting notices would be posted on the Bulletin Board.

We can have guest "Speakers" on the network to address these special groups.

All the local chapters of KUG could communicate with each other to discuss ways to increase their membership and library.

There must be many other ways to use this new KUG service. You must have some ideas. Let's hear them. WRITE !!!!!

Right now, in Chicago, Ira is preparing all the necessary materials needed to go on line with Compuserve. It is not a small task. It will take time but if all goes well, we should have our menus written and library "uploaded" by the end of February. The next KUGRAM will have all the information on how to "log on" to the KUG SIG.

Needless to say, we're excited about being accepted by Compuserve as a Special Interest Group, but only you KUGGERS can make it work. If we get the same co-operation that we get for the KUGRAM, it can't help but be successful.

I can't wait to get started. If I can only remember my "password"



Box 100



Dear KUGRAM:

I would like to share my experiences with other Kuggers.

A journal which many Kuggers may be interested in is Micro Cornucopia (P.O. Box 223, Bend, OR 97709), which I first saw advertised in ProFiles. This is a hardware-oriented journal for single-board computer owners and has a regular Kaypro column. They also can provide a schematic diagram and theory of operation for the Kaypro II and improved monitor and character generator ROMs. One issue, No. 12, is particularly interesting because it deals with modifying the Kaypro II to run at 5 MHz. Total cost for parts is about \$15 except for having the monitor ROM copied to a faster part. A later issue indicated that Kaypro IV owners don't need to have their ROM copied. Micro Cornucopia will sell new ROMs for about \$30 apiece or will copy it for you free if you write them an article.

On the topic of SBASIC, I have seen an SBASIC Learning Diskette for \$13.75 available from TARP Consulting, 3851 N. Phoenix, AZ 85016. It may be worth it. My own experience with SBASIC in writing a moderately complex program was very tedious and painful at times.

I have purchased a MacInker Ribbon Re-inker to keep me in fresh ribbons. I purchased it from SAS Industries, 3091 N. Bay Drive, North Bend, OR 97459. They will give a substantial discount for members of a user group. The re-inker isn't really fast, but it does seem to do a good job. I recommend it for all you frugal printers.

I hope that this information will be of use to Kuggers out there.

Humphrey Liu
101 Carrollton Terrace
Apartment Number 4
Charlottesville, VA 22903

Dear KUGGERS:

I'm compiling a book on computer humor, and I'm looking for funny original cartoons, jokes, and riddles. Naturally, all contributors whose work is used will receive proper credit and their contributions will become my property after I accept and pay for them. Anyone who would like unused material returned should enclose a self-addressed stamped envelope.

Jim Nelson
P.O. Box 2089
Philadelphia, Pa. 19103

* * *

Dear KUG,

Re the Smith Corona TP-1: In Vol 1, No 4, on page 4, there is an error regarding the command "Pause for Manual Insertion of Paper," which is "A," not "P."

I would like to move up to a printer with a proportional type daisy wheel or thimble and would like to be able to produce hard copy with both left and right justification. My question is this: Does PW support proportional print and right justification at the same time?

R.L. Greenhow
4113 Roseland Drive E
Windson, Ontario N9G 1Y5

* * *

I recently wrote to JRT Pascal to find out why my order for Pascal Version 3 hadn't been filled in over 90 days. I received a Xeroxed copy of an order from the US Bankruptcy Court, Northern District of California, in Santa Rosa. Mr. Tyson of JRT has filed under Chapter XI, Case No. 1-83-01424, hearing date 12/20/83, filed on 11/30/83. Unfortunately, his ads still appear in magazines and additional people stand to lose their money. I have left this information on the national KUG BBS in Chicago, and on two local BBS's. If we can spread this information, fewer people will be sending their checks to never-never land.

Daniel M. Howard
5882-1/2 Vallejo St.
Oakland, CA 94608

The Date of Easter

A few days ago a friend, knowing my interest in chronology, sent me a photocopy of a review from a computer journal reporting a work on Basic programs for calendrical problems. I hope to find and read the book soon, but what immediately struck me was the description of a program, the shortest in the book, which would deliver the date of Easter in any year in the twentieth century. The program, the reviewer observed, was but 53 lines long. I had recently written a program to give the date of Easter which seems to be much more economical, so I thought I might share it with fellow users.

I hope that someone also interested in chronology can give me a program for the computation of the date of Easter according to the Julian calendar. In the meantime, here's mine (in MBasic) for any year from 1753 to 2099.

The Rev. Thomas Talley
Chelsea Square
New York, NY 10011

```
10 PRINT "A PROGRAM FOR THE COMPUTATION"
15 PRINT " OF THE DATE OF EASTER IN"
20 PRINT "ANY YEAR IN THE 20TH OR 21ST"
25 PRINT " CENTURIES."
30 PRINT
40 PRINT "FOR WHAT YEAR DO YOU WANT THE"
45 PRINT " DATE OF EASTER";
50 INPUT N
60 A=N MOD 19
70 B=N MOD 4
80 C=N MOD 7
90 D=(19*A + 24) MOD 30
100 IF D>27 THEN D=D-1
110 E=(2*B + 4*C + 6*D + 5) MOD 7
120 F=22 + D + E
130 IF F < 32 THEN PRINT "MARCH "F"."
140 IF F>31 THEN PRINT "APRIL "F-31"."
150 PRINT
160 PRINT "ANOTHER YEAR?"
165 PRINT "(O=YES; ANY OTHER KEY=NO)"
170 INPUT K$
180 IF K$="O" GOTO 40 ELSE 190
190 END
```

Perfect Writer and Wordstar

As a Kaypro owner, you may have used the word processing program Perfect Writer, included in the software package. You may also have Wordstar, another word processing program, which is also available. These columns contain some information which may be handy for you if you are just encountering Wordstar.

These two programs are among the best available, but they are quite different from each other. Wordstar is not perfect, but neither is Perfect Writer (no matter what the name.) Both have various strengths and weaknesses, and you'll have to see which one best suits the work that you'll be doing. First of all, though, you may want some background material to acquaint yourself with the two programs.

Perfect Writer is a modified version of a previous word processing program, known as MINCE. MINCE was a large mainframe word processor, and much of its power can be seen in Perfect Writer. Other similar versions of MINCE are available to microcomputer users under the names Final Word and StarEdit. Perfect Software also puts out some companion software for use with Perfect Writer.

Wordstar is a program by Micropro International, and it's the one that made them famous. It is probably the most widely used word processing program in existence, and has been called the best on the market. Like Perfect Writer, it has companion software which it works with, Mailmerge being the one most often used. For an excellent guide to Wordstar, you might want to read Arthur Naiman's book, Introduction to Wordstar.

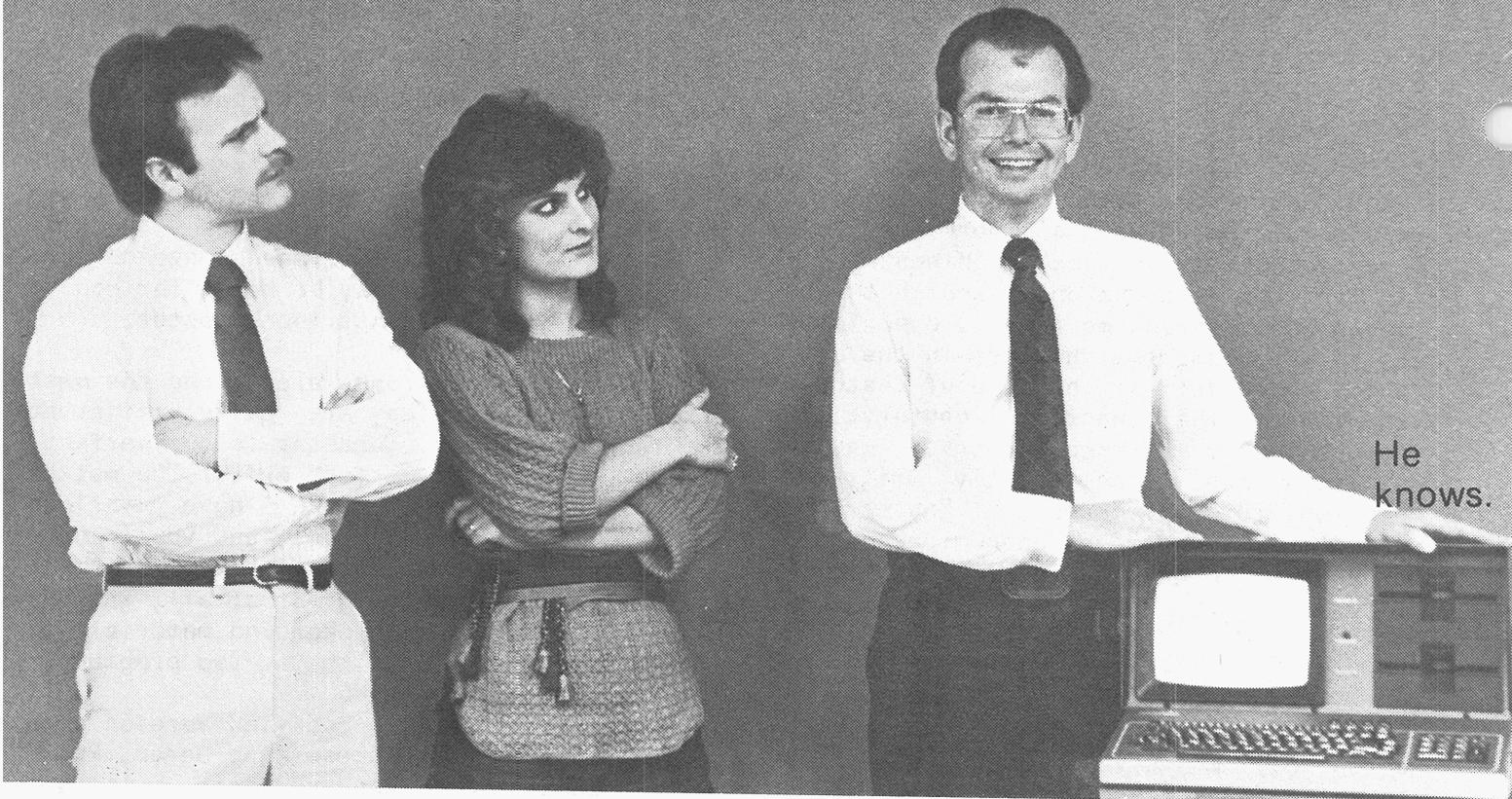
T.F. Chiang
27 Cove Lane
Port Jefferson, NY 11777

(See Mr. Chiang's column on WORDSTAR.)

Perfect Tip

To eliminate numbered pages in a document, make sure that the @pagefooting() command is on the very first line. There should not be a <cr> before it.

Q. Do you know how to run IBM-PC software on a Kaypro?



A. With SWP's CO-POWER-88, an 8088 coprocessor for the Kaypro II and Kaypro 4.

Hardware

- 16-bit, 8088 processor
- 256k RAM
- 5.33 MHz
- Easy to install

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- Includes MSDOS. CP/M-86 is an option.
- Simple commands move system control from CP/M to MSDOS or CP/M-86 and back.
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CO-POWER-88 is also available for the Actrix, ATR8000, Bigboard, Xerox 820 and Zorba.

Prices and specifications subject to change without notice. Specifications may vary for other CO-POWER-88 computers.

Trademarks: IBM-PC, IBM Corp. Kaypro II and 4, Kaypro. Z80, Zilog, CP/M and CP/M-86, Digital Research, Inc. MSDOS, Microsoft. CO-POWER-88, SWP, Inc.

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Financial Analysis Programs

Cashpac is a reference package for cash flow, loan, depreciation and time value analysis. It can be used to develop alternate financing, projections, loan payoff amounts, interest paid, tax deductions, and even bond yields in the most recent version.

Stockpac provides analysis of stock or option transactions. It can be used to evaluate commissions, margin requirements, option volatility, option symbols, return on investments, and model option prices.

Cashpac is a group of separate programs. The programs may be run individually or may be called from a menu driver. Documentation for program operation and the equations utilized are included in a help file. This eliminates the need for an additional manual and is easily accessed from the menu or by typing <drive>:HELP.

Some of the programs included in Cashpac version 1.1 are:

Cashflow.com: Computes present worth individually and in total for a cashflow and the internal rate of return. This program is very helpful but slow when numerous cashflows are involved.

Loans.com: Computes any loan parameter given the others. Permits various compounding and payment frequencies.

Schedule.com: Prints out loan amortization schedules.

Deprec.com: Prints out depreciation schedules for five types of depreciation.

Yield.com: Computes current yield and yield to maturity for bonds.(version 1.1 and later)

Timeval.com: Computes values for individual engineering economics functions.

Stockpac is set up identical to Cashpac except that the documentation is currently in a separate 50 plus page manual.

Stockpac is not a portfolio manager—you have Perfect Calc for that—but it is quite useful in evaluating trades and strategies.

Some of the programs included in Stockpac version 1.1 are:

Stockpac.com: Menu driver for programs.

Comm.com: Nets transactions, computes full service commissions, allows discounts, stocks or options, SEC tax, etc..

Discount.com: Same as Comm.com except utilizes a discount broker commission schedule.

Margin.com: Computes margin impact of a trade such as Regulation T requirements, maintenance, balance, equity, etc. Quite useful for options trading.

Model.com and Model2.com: Option price modeling routines. Includes the Black-Scholes model. A lot of information is available from this.

Vol.com: A single point option volatility calculator.

Return.com: Computes simple returns on investment.

Symbol.com and Asymbol.com: Option symbol analyzer and symbol generator.

The Stockpac manual includes a section identifying strategies, equations, and a glossary in addition to program operation.

Cashpac sells for under \$30.00 and Stockpac under \$80.00. Both are available thru either Doug's Software Barn or Custom Art Marketing at (704) 372-1832. New versions are available to current registered owners for \$7.50 each from the Software Barn.

Charles W. Trezise
P.O. Box 220952
Charlotte, N.C. 28212

Resurrecting a Document

by Jim Albright ... Malawi, Africa

Sooner or later, you will come across a problem of trying to save a document and having PW tell you that it can't write it. When it happens, don't panic; there is a simple way to save your document and your time.

One of the characteristics of the CP/M operating system is that it does not like you to change disks without telling it. But if you are in the middle of something, that's impossible to do without losing it altogether (or go through the pain of trying to reconstruct the document from the SWP file on the program disk).

A disk fills up in one of two ways. First, there may be too many directory entries. CP/M allows only 64 directory entries on a disk. If you have a bunch of short letters on a disk, you will probably fill up the directory before you fill up the file space. Secondly, the file space on the disk may in fact be full. A Kaypro disk can have as many as 191 "pages" of 1024 characters each, and the disk will eventually fill.

So, you are writing away on a new document and you give the command to save it. PW comes back to you and says that it cannot write it. Panic sets in. Blood pressure increases. All that work is down the drain. Keep cool! You may not have lost it. If you have reason to believe that you have filled up the directory, but not the disk, all is not lost. Even if you have filled up all the space, you may still be able to save it.

Try the following:

1. If you have overloaded the directory, then try to remember an existing file that is no longer needed. FIN files are the best choice, because they can be reconstructed again from the corresponding MSS file. The size of the file does not matter, because you just need the directory entry space. But if you have overloaded the disk because of file space, then try to remember a long existing file that can be overwritten.

Here, the size of the file is important because you want the old file you are overwriting to be longer than the file you are now working on. Warning: You will lose that old file.

2. Type a CTRL—X, CTRL—W, for "Write to file" command. When it asks you for the file name, give it the name you just chose. Don't forget to include the disk drive indicator such as B:.

3. If you have chosen a file name in the directory, the document you have been working on will be overwritten onto that old file.

4. Then, with the new document saved under the old file name, go back to the menu and "Rename" the file to reflect the new file name.

5. Now do some housekeeping. It is always a good idea to periodically clear off disk files that are no longer needed. Then you shouldn't have that kind of problem very often.

Another thing that might help you to overcome the problem of "remembering" an old file name is to use CP/M's CTRL—P feature periodically to print a hard copy of your directory.

Calc Correction

Kaypro II users who have PerfectCalc should make corrections on the two statistical routines labelled LIBRARY.PC. and STNDEV.PC. Both have their variance calculated as:

$$c10=(\text{sum}(d2:d6))/c9-1)$$

while the mathematically correct form is to have an additional left parentheses just before the c9 term, as:

$$c10=(\text{sum}(d2:d6))/(c9-1).$$

Robert D. Athey, Jr.
P.O. Drawer 1459
El Cerrito, CA 94530

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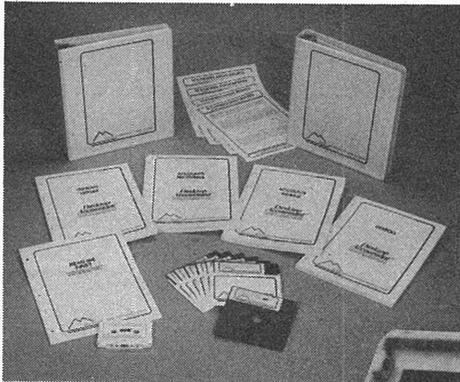
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Printing Intermittent Pages

From the Main Selection Menu use the quick print option; i.e., select "F" (format a file). From the Perfect Formatter Selection Menu select "P" (Send output to printer device), "A" (Pause to insert paper) EVEN IF USING CONTINUOUS FEED PAPER and "G" (Begin formatting now).

Console will instruct: "Insert fresh page; type any character when ready." If you wish to print Page 1, turn on printer. Then type any character to begin the printing. At the end of page 1, printer will pause, console will instruct "Insert fresh page; type any character when ready."

If you wish to skip a page, turn off printer. Then type any character. The console will show the next page number with the same instructions regarding inserting a fresh page. Continue to type any character until the number of the page you wish to print comes on the screen. Turn on the printer, then type any character to begin printing. Continue as above, until all pages you wish to print are completed.

Mary Lamb Becker
6147 N. Santa Monica Blvd.
Milwaukee, WI 53217

Formatting Problem

We have a problem formatting footnoted pages, a problem which KUGGERS may be able to solve for us: When the last word of text above the footnote line happens to be part of an underlined title, Perfect Formatter causes not only that word but also the entire footnote (superscript included) to be underlined. Is there a way out other than splitting the underlining command (i.e., typing it twice, once for each half of the title)?

Cheryl Spector
John Bethune
Department of English
College of Arts and Sciences
The University of the South
Sewanee, TN 37375

Genealogy Kug

K U G I G (Kaypro Users Genealogy Interest Group) is apparently the only national users group created to assist those with a particular computer to learn how to utilize their machine for genealogy. We have found that applications on our "bundled" software allows us to record and manipulate our family data and we hope to eventually get applications for all standard forms used by family historians. We now have 4 different styles of Family Sheet databases, a Cemetery database, a Land Deed database, a Probate database and a Census database, several methods of using word processing, and are establishing a Surname Index to the families being researched by our members. We hope to have a bulletin board operating soon.

Our membership fee is \$25.00 a year and includes 4 newsletter disks with genealogy ideas and program applications ready to run on the KAYPRO, opportunity to buy commercial genealogy and utility programs at a discount, and printed newsletters as necessary.

Alice W. Petersen, Co-Ordinator,
3010 Regency, Apt. 40
Ames, IA 50010

Needs Patch

I have a TTX 1014 Daisy Printer. I called the printer company about putting a patch on WordStar so that the LH.16 command could be executed. This allows one to single space on the screen and double space on print-out, something easily done on Perfect Writer, but not on WordStar. The TTX Company (Texas Communication Corporation) sent me a patch. The problem with the patch involves #5: "Select 'L' for CP/M List Device from the DRIVER MENU." On the WordStar 3.3 there is no 'L' on list for DRIVER MENU. This does exist on WordStar 3.0, and then it's relatively easy to patch. How can this be done for 3.3?

Elaine Safer
301 Radcliffe Drive
Newark, DE 19711

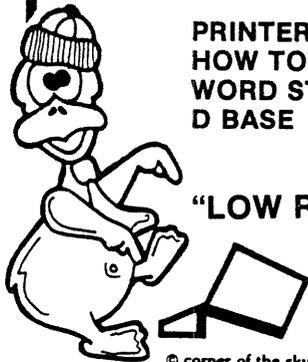
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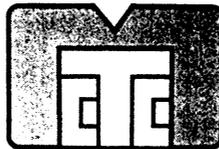
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Epson Printer Menu Program

This is an SBasic printer menu that allows one to change font style much easier than loading MBasic. Use your text editor like Perfect Writer to create a file EPSON.BAS. Then exit and put the SBasic disk in drive B. Switch to B: prompt. Type SBASIC followed by typing EPSON.AAY if you want a compiled copy on the printer or EPSON.AAX if you want it to display to the screen. After the program is compiled, all you have to do is type EPSON, since the compiler gives you a COM file. You can easily add or delete style commands using the same format.

```
rem: This is a printer menu for the Epson
rem: created 8/13/83 by T.P. Labuza,
rem: 1870 Stowe Ave., Arden Hills, MN
rem: 55112
```

```
VAR ANS=STRING:2
OLOOP
ANS=" "
PRINT CHR$(26)
TEXT 0,@
```

EPSON FX80 PRINT MODE MENU

1. DOUBLE STRIKE MODE
2. ENLARGED WIDTH MODE (SEE 13 & 14)
3. EMPHASIZED MODE (NOT COMPRESSED)
4. ITALICS MODE
5. COMPRESSED MODE
6. DEFAULT SPACING TO 10 CHARS/INCH
7. LINE SPACING TO 1/8"
8. LINE SPACING TO 1/4" FOR EDITING
9. DEFAULT LINE SPACING TO 1/6"
10. IGNORE PAPER OUT SENSOR (BELL)
11. TO SKIP OVER PERFORATION 4 LINES
12. FORM LENGTH TO 50 LINES
13. RIGHT MARGIN FOR ENLARGED MORE 2
14. LEFT MARGIN FOR ENLARGED MODE 2
15. RESET ALL FUNCTIONS TO DEFAULT
16. EXIT MENU AND RETURN TO CP/M

PRESS "RETURN" AFTER EACH CHOICE
(MULTIPLE SELECTIONS MAY BE MADE)

```
@
INPUT3 "ENTER CHOICE ----> "; ANS
CASE ANS OF
"1": BEGIN
PRINT #1; CHR$(27) + "G";
END
"2": BEGIN
PRINT #1; CHR$(27) + "W" + CHR$(1);
END
```

```
"3": BEGIN
PRINT #1; CHR$(27) = "E";
END
"4": BEGIN
PRINT #1; CHR$(27) = "4";
END
"5": BEGIN
PRINT #1; CHR$(15);
END
"6": BEGIN
PRINT #1; CHR$(146);
END
"7": BEGIN
PRINT #1; CHR$(27) + "0";
END
"8": BEGIN
PRINT #1; CHR$(27) + "A" + CHR$(18);
END
"9": BEGIN
PRINT #1; CHR$(27) + "2";
END
"10": BEGIN
PRINT #1; CHR$(27) + "8"
END
"11": BEGIN
PRINT #1; CHR$(27) + "N" + CHR$(4);
END
"12": BEGIN
PRINT #1; CHR$(27) + "C" + CHR$(50);
END
"13": BEGIN
PRINT #1; CHR$(27) + "Q" + CHR$(40);
END
"14": BEGIN
PRINT #1; CHR$(27) + "1" + CHR$(2);
END
"15": BEGIN
PRINT #1; CHR$(27) + "@";
END
"16": CALL 0
END
GOTO OLOOP
```

Diablo Help Needed

I recently acquired a Diablo Bold PS Wheel, but I can't get PS out of either the program or printer. I tried Plain with a Proportional Space option on PFCONFIG and I tried Diablo PS, but got only garbage. Any ideas?

Arnold Klau
4 North Main Street
West Hartford, CT 06107

MICRO CORNUCOPIA

Micro Cornucopia is not just a magazine covering single-board based systems, it's really a 2-year-old users group for folks who just can't leave their single board systems alone. The systems we cover include the KayPro*, the Big Board, the Xerox 820, and some new 16-bit boards like the Slicer.

We get inside single board systems to see what makes them tick (or not tick). When we get done we usually know how to make them tick faster and better.

Regular Features Include:

- The KayPro Column
- On Your Own Column
- C, PASCAL and FORTH Columns
- Technical Tips

Edited and Published by David Thompson

KayPro Schematic

This is a complete schematic of the KayPro, logically laid out on a single 24" x 36" sheet — no more searching to see where a signal goes or comes from. Even the unused gates are shown.

It's drawn in positive logic, lines are labeled, and we've tossed in hours and hours of careful checking for accuracy. Then we added a **Theory of Operation** that's keyed to the schematic.

KayPro Schematic Package \$20.00

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SPECIAL OFFER!

KayPro II Schematic Package
(If you also order subscription) \$10.00

*KayPro is a registered trademark of Non-Linear Systems, Inc.

KAYPRO II USERS DISKS

The following are full disks of software assembled specifically for the KayPro II. Each program has a .DOC (documentation) file and many come with source.

KayPro Disk K1 - Modem software

This disk is absolutely priceless if you will be using a modem to communicate with bulletin boards, other micros or mainframes.

MODEMPAT.COM: Menu selection of baud rate, bits/character, stop bits, & parity for serial port.

MODEM7.COM: Very popular MODEM 7 configured for KayPro.

MODEM7+.COM: This is MODEM7 & MODEMPAT combined - you can communicate with anything!

KMDM795.COM: Super-version of MODEM7 set up for KayPro.

TERM.MAC: Commented disassembly of the TERM program you get with your KayPro so you can configure it for any interface.

SQ/USQ.COM: Programs to squeeze and unsqueeze files for faster transfer.

KayPro Disk K2 - Utilities

Really oodles of spiffy little (and big) programs to help you get full use of your KayPro.

ZESOURCE.COM: A true Zilog format disassembler for 8080 and Z80 object(.COM) files. Now you can turn .COM files into .MAC files.

UNERA.COM: Simply enter "UNERA" followed by the name of the file you just erased and presto, the erased file is back! A lifesaver.

FINDBD54.COM: Checks an entire disk, reports bad sectors, and then creates a special file containing those sectors. You save a bundle on disks.

CAT2: This a group of programs which create and maintain a single directory of all the programs you have on all your disks. Even keeps track of which programs are backed up and which aren't.

UNSPPOOL.COM: Use your KayPro II and print files at the same time. Doesn't slow down system response!

DUMPX, DU-77, COMPARE, SUPERSUB, FORMFEED, DIR-DUMP, . . . and all have documentation on disk.

KayPro Disk K3 - Games

PACMAN.COM: Despite the KayPro's lack of graphics, this one looks and plays amazingly like the real thing! Keep it hidden.

ZCHESS.COM: Chess with a 1-6 level look ahead.

OTHELLO.COM: You learn it in minutes, master it in years.

BIO.COM: Generates custom graphic biorhythm charts.

MM.COM: Master Mind.

WUMPUS.COM: Classic wumpus hunter's game.

KayPro II Users Disks

\$12.00 each ppd.

KayPro Disk K4 - Adventure

This disk contains one 191K game, Adventure. **ADV.COM:** This is the latest, greatest, most cussed adventure ever devised by half-mortals. This is the 550-point version so the cave is greatly expanded and the creatures are much smarter.

KayPro Disk K5 - MX-80 Graphics

A complete MX-80 graphics package including example files.

KayPro Disk K6

Word Processing Utilities

A powerful line oriented text editor that looks like Unix's EX, plus a scad of text utilities written in C which handles pretty printing, shortening a file, multiple space output, add tabs, remove trailing whitespace, and more.

KayPro Disk K7

Small C Version 2 Compiler

This is a greatly extended version of Ron Cain's Small C compiler. Version 2 has more expressions and larger library, true subset of Unix C. Disk contains compiler, documentation, and library—everything you need.

KayPro Disk K8

Small C Version 2 Source

This disk contains the source (written in Small C) of the Small C version 2 compiler. Get K8 if you want to try extending the compiler. (You must have K7.)

KayPro Disk K9 - ZCPR

ZCPR: The big news on this disk is the self-installing version ZCPR available only from Micro C. Once you have ZCPR in your CP/M, you'll never go back to straight CP/M! For instance, ZCPR searches drive A for any program not found on drive B, so, even an empty disk in drive B appears to contain every program on A. It's great for text editors, compilers, etc. Plus many more new features to make CP/M easier to live with. In fact, Digital Research incorporated many features of ZCPR into CP/M 3.0.

PASWORD: Lets you encrypt and decrypt your precious files. Includes source.

EX14: a super replacement for SUBMIT and XSUB.

Plus many more: **TREK, FIX, FIND, SNOOPY, ALIENS** and **DIF2**.

KayPro Disk K10 - Assemblers

We've received a lot of requests for a Z80 assembler. So Dana put in some long hours getting the Crowe Z80 assembler to run on the KayPro (and every other Z80 machine).

CROWECPM: This is a first class Z80 assembler. We use this assembler daily (and we included its source). Takes standard Zilog mnemonics.

LASM: This is a more powerful version of the ASM assembler you received with the KayPro. This will link multiple programs together at assembly time.

PRINTPRN: This program makes it easy to print the listing files generated by the Crowe assembler.

KayPro Disk K11

Library & Checkbook Programs

CHECKS: This has been a very popular group of programs. Categorizes checks so you can keep track which are tax deductible and which get charged to which projects. Includes source and excellent example check files. Very powerful.

LIBR: This is a complete set of library routines which let you group files into a single file called a library. Then CP/M sees them as a single program, but with the library routines, you can list them out separately, run them separately, or divide them up again. Almost like a unix environment.

DISPLAY, VLIST, PGLST: Additional screen and print utilities.

KayPro Disk K12 - FORTH

Yep, this is FORTH, one of the most unique, most extendable languages known, and for a paltry \$12.00. This disk contains not just one FORTH, but two, along with an editor, decompiler and 8080 assembler! The editor even uses the cursor control keys.

FORTH: This is true fig-FORTH.

KFORTH: A very nicely extended version of fig-FORTH.

PLUS, all the rest of the FORTH goodies. (Forth Heaven!)

KayPro Disk K13

Source of fig-FORTH

All this disk contains is the 40K ASM source of fig-FORTH with the hooks in place for the KayPro. This disk is for FORTH hackers who just can't leave anything alone. (Look, you probably have faults, too.) The source of FORTH is here because there isn't room on K12. This is the only disk that isn't stuffed.

KayPro Disk K14 - Smartmodem Programs
This is the disk for you if you have a Smartmodem compatible modem. Handles goodies like auto dial along with multiple directories.

SMODEMK: Smartmodem program set up for the KayPro (and source).

XMODEM: Lets you remotely control your KayPro from a distant computer.

KAYTERM: This is the information you need to run or write modem software on the KayPro.

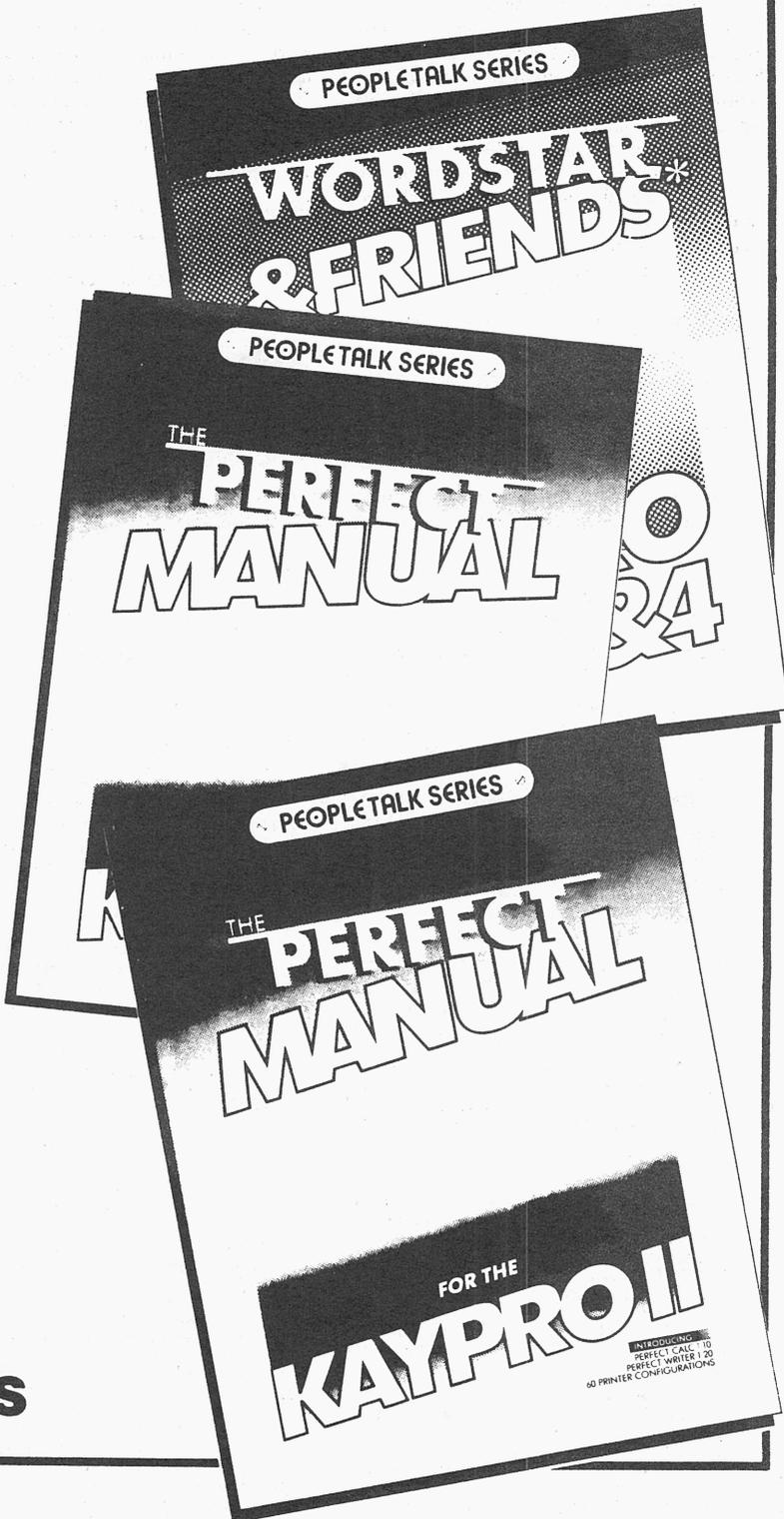
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CONFIGS NEEDED

Our files are starting to bulge with printer configurations that you have been sending us, and we thank you for contributing your knowledge and expertise to help fellow KUGGERS. However, there are still a few gaps, and any information about the following printers would be appreciated by those members who requested them.

Brother EM-2 (Electronic Typewriter)

Brother HR-15 (Daisy Wheel)

Dynax 15

Epson FX-80 and RX-80

Facit 8100

Gemini 13 and 15

Juki 6100

Leading Edge GX-100

NEC Spinwriter 3510 and 3530

Mannesman Spirit 80

Malibu 165

Okidata 83A and M80

Olivetti ET 221

Olivetti Praxis 35 (Bytewriter)

Olympia Electronic Compact

Olympia ESW 100 RO and 102

Royal Alpha 2001

Sanyo PR 5500

Silver Reed EXP 550

Star Micronics STX-80

TEO Starwriter F-10

TRS VIII

TRS-80 DMP-400

TT-43

TTX-1014

KUG is receiving printer configuration requests in overwhelming numbers. If you have not received the configuration you wanted, please be patient. Reminder: send in a SASE (#10, business-sized) with your request.

Needs Swap Help

I am using a 33K swap file to run with Fortran on a crowded diskette. Is there any way to turn swap off without configuring the diskette?

Dr. Carl A. Singer
1332 Medford Rd.
Wynnewood, PA 19096

More on Select Update

The new up-date from Select is version number 0.30. This has some special features that allow you to move the cursor anywhere on the screen and start inserting copy. Great for on-screen formatting. Select also allows you to build a library of often-used copy that can be added to the document at any time by the use of a few key strokes. You can now overstrike with hyphens or you can use the "dead key" and create words like sefor. Notice the character over the n?

There are many more new features, but you MUST have SELECT. We have only the up-dating disks. These disks do not have the main Select program on them!

The three disks are available from KUG for \$25.00. There is no documentation available. A new manual has been printed by Select and is offered by way of a special coupon provided with the disks.

Please send your check and ID# to Select Update, KUG, Box 100, Malverne, NY 11565.

Footnote Numbers

Twice in Vol 1 No 6 of the KUGRAM, you published an extremely cumbersome routine for changing footnote numbers (Judge Kapner, p. 2, and Gerry Fowler, p. 3). There's a much easier way! Just type in somewhere before your first footnote "@set{foot=X}", where X=the FN you want minus one. In other words, if you want to start with footnote 436, just type in "@set{foot=435}"!

The @set command works just dandy with anything that needs numbering—page numbers, endnote numbers, chapter numbers, etc. The reference, a confusing one, is page XVII-16 of the manual. (At least, of my old manual.)

Mary W. Matthews
4823 Willett Parkway
Chevy Chase, MD 20815

* * *

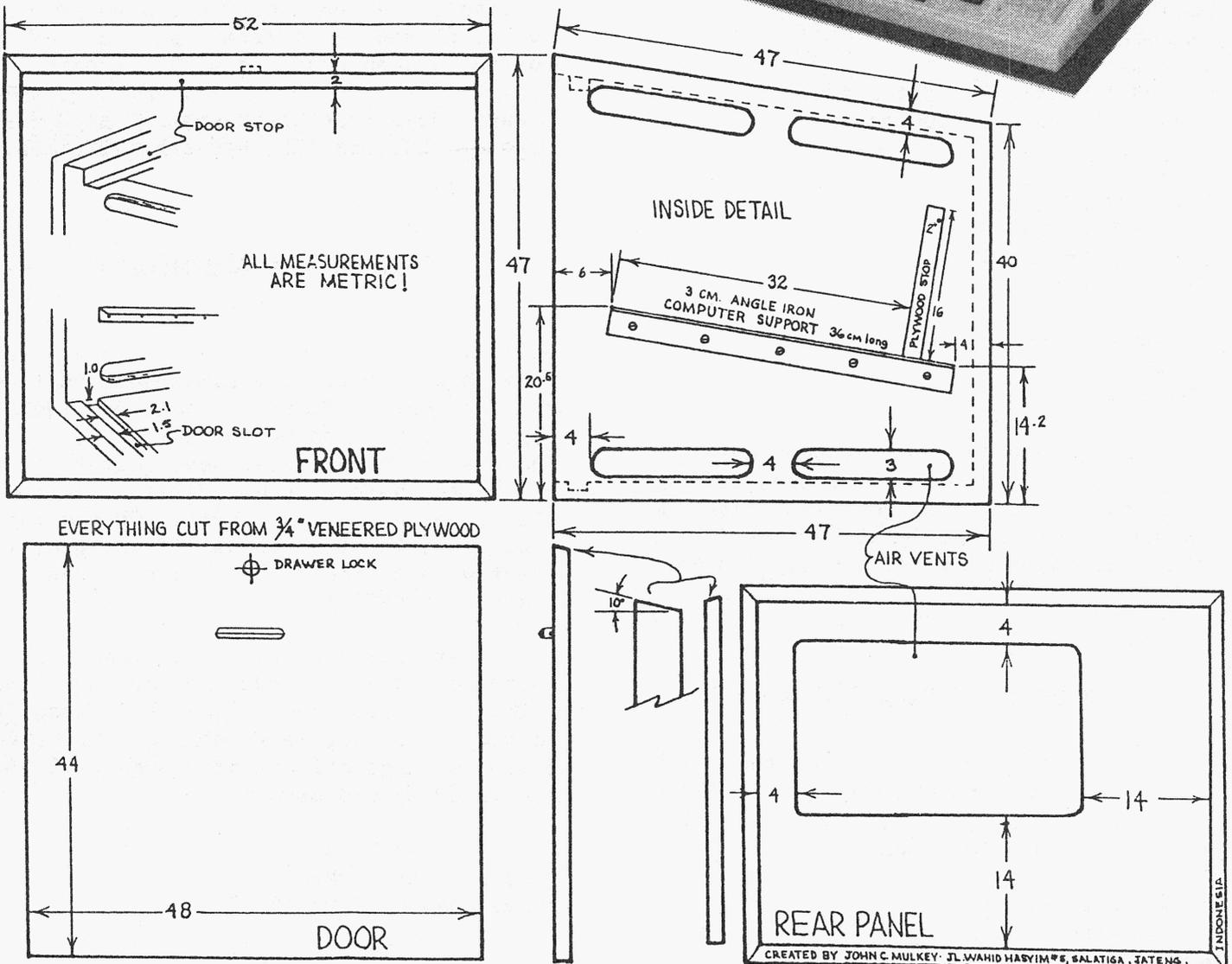
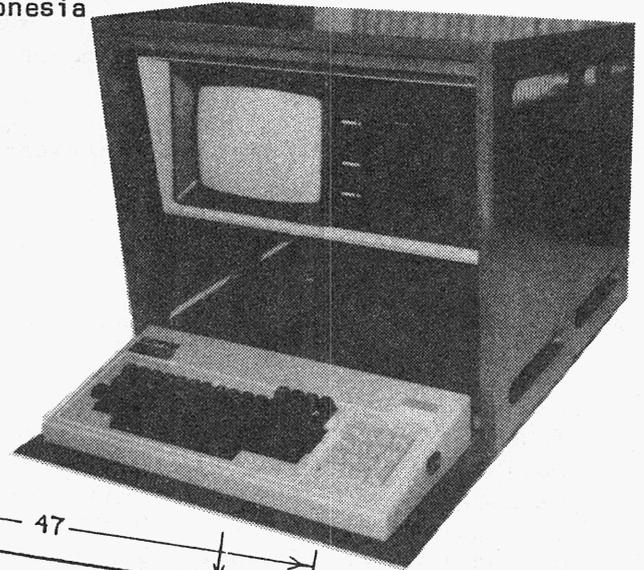
U-DO-IT Kaypro Stand

The following drawings are for a "Desk-top Kaypro Stand" that we designed and would like to make available to KUG members. The stand can be cut from one sheet of 3/4 inch plywood.

Some of the advantages it has over store-bought stands is that it can be locked shut when not in use to avoid someone walking off with your Kaypro. The keyboard slips in under the computer when not in use. It also has the advantage of placing the screen closer to eye level for easier viewing. There are no modifications necessary to the computer. The Kaypro can still be slid out and carried elsewhere if need be. I have gone one step further and drilled holes in the bottom of the stand for 3/4 inch bolts and have bolted it to a table top. (You have to be willing to drill holes in your desk top, though.)

The air vents provide adequate ventilation and the rear vent provides access for power and printer cables. The power switch and reset button can be reached from the back or by reaching up under the computer.

John C. Mulkey
 Jalan Wahid Hasyim 5
 Salatiga, Jateng
 Indonesia



Introducing: **TERMPAC 1.0** \$24.95

A communication program written just for the **KAYPRO**. Allows full control of the SIO interface such as *baud rate, *bits/char, *parity, *#stop bits + *terminal emulation of teletype 920(1) + *echo on/off + *autolf on/off + allows keypad keys to be defined to provide local functions such as *print screen, *break, *PF keys, *resend one of last 5 commands, *clear screen, *scroll/noscroll, + any of the keypad keys may have strings of up to 50 characters assigned to them to reduce your typing effort. Also provides file send and capture capabilities + CPM functions like DIR, ERA, and REN within TERMPAC. And best of all, TERMPAC 1.0 only costs **\$24.95 !!!!!**

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GRAPHAC is a printer graphics package for use with Epson/gemini, Oki92, Pro8510, and Manns-T. 160. GRAPHAC provides many features found on mainframe systems such as regression and spline smoothing of data, multiple plots on a page, and variable axis size. Many other features, must see to believe!!!

\$79.95 -GRAPHAC + 65 page user guide

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(1) Teletype is a trademark of Teletype, Inc.

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A package developed for use in a major brokerage firm available for a fraction of the normal cost. This program can easily pay for itself in a single use.

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NewWord makes paperwork easy

Editing is easy and straightforward with **NewWord**. Single keystrokes perform primary functions, such as to insert, delete and move characters, words and sentences. **NewWord** obeys your instructions instantly, making corrections and revisions easy—like using the convenient "unerase" command when you change your mind. Or finding a specific page in the document.

Using **NewWord**, even large blocks of text are moved and repositioned easily, and just as quickly copied or deleted. With the Search-and-Replace function, words and phrases such as mis-spelling and titles can be changed throughout the document with a single command.

As you write, **NewWord** automatically arranges text to your preferred format. When you edit, **NewWord** reformats your document. You see on the screen exactly what you'll get on paper—including print options like boldfacing, underlining, etc.

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"Save and resume" command doesn't move the cursor to the beginning of the file, eliminating another frustration typical of the other program. "Living" ruler

lines automatically change margins and tab stops for you as you move around the document.

In non-document mode, indentation is automatic at your command and the file can invoke a specific tab size—examples of features that are useful with structured programming languages.

These are just some of **NewWord's** powers. Yet it's easier to use than the most sophisticated program available.

NewWord is simple to learn, easy to use

Select from a multiple choice "MENU" of functions, and interactive onscreen prompts lead you every step of the way. If you have a problem, **NewWord's** extensive "HELP" screens assist you—in plain English.

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WORDSTAR by Chiang

BOOTING UP WORDSTAR

Suppose you've got your disk with Wordstar, customized for your Kaypro. Once in CP/M, you might try a directory. You'll probably see something like:

```
WS.COM          WSMMSG.S.OVR      WSOVLY1.OVR
MAILMRGE.OVR
```

WS is Wordstar, and the two after it are overlay programs which are part of Wordstar. MAILMRGE is Mailmerge, the companion program recommended for Wordstar users.

Type WS <CR>, and you've begun. The operating system will scroll away, and you'll see a message with some copyright information about Wordstar. Then, you'll find yourself looking at the NO-FILE MENU.

This is something similar to what you see if you begin Perfect Writer with the MENU program, but you also get a disk directory along with it. The letters used aren't quite the same, but they serve the purpose. You'll want to press D, to create or edit a Document file.

Some new information will appear on the screen, with the prompt: "NAME OF FILE TO EDIT?" Type in any name you like, with a <CR>. Then Wordstar will look for that file on disk, and if it doesn't find it, it will tell you NEW FILE, and give you an empty file.

When you begin to edit with Wordstar, you'll have a nice large menu in the upper portion of the screen, and a status line at the top. The latter tells you the filename, exactly where the cursor is, and some other information, like INSERT ON.

The menu you see is to aid you if you're a beginner. It gives the cursor, scroll, delete and some other commands. It also gives you a help command and prefix commands for other menus.

Now, let's say you try a command. Type a control J, and watch. There is a delay of about four seconds, and then you'll see a new menu, telling you about the help that's available.

With this menu, that time delay is always there, and it's an interesting feature of Wordstar. If you're familiar with Wordstar, you'll type in your commands rapidly and needn't be bothered with another menu. If you're new and having difficulty, you'll be slow in typing in commands. If you take more than a few seconds, Wordstar automatically gives you help via a new menu. Clever of it, isn't it?

To return to the main menu, press the space bar. Typing any of the letters on the menu will give you help, whether you use a control character or a normal one. You may want to go back and forth between the various menus, just to see how you can get around. If you go too far, Wordstar will usually keep you from getting lost, letting you ESCape without damage.

This help feature is similar to the Help file for Perfect Writer, but it's always on screen. If you don't want or need it, you can change the help level and get the entire screen for editing. At this point, you can type in text with no problem.

In the next issue we will discuss the command structure of WORDSTAR.

Canadian Zip O.K.

A couple of items of interest to other Kuggers—first, contrary to the note in "In Response" of issue no. 5 (Aug.-Sept. 83), Perfect Filer will accept Canadian Postal Codes in the ZIP field; I have used it successfully with no modifications, but if necessary the PF manual indicates that fields can be customized for any combinations of alpha or numeric characters.

Second, I received a letter today from one of the advertisers in KUGRAM no. 4—End of File, Inc.—indicating that they have withdrawn from the market both their INTERCOM communications software and their diskette conversion products, and that they are returning any orders already received.

D. Reid Powell
66 Maple Street
Guelph, Ontario N1G 2G2

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PerfectWriter™ is a trademark of Perfect Software, Inc. CP/M™ is a trademark of Digital Research.
PC-DOS™ is a copyright of IBM. MS-DOS™ is a trademark of Microsoft.



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
- * New contributions

In a future issue we will break down the contents of each disk. Please continue to contribute to the KUG library. 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.

Allow 4-6 weeks for delivery.

Kugram Binder and Index

O.K. KUGGERS, YOU ASKED FOR IT !!!

KUG has finally put together an index of all the articles that appeared in Volume One, Numbers 1 to 6, our first year.

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.

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.

Kaypro Support Service

Micro Computer Training Corporation is a national center for training and support of KAYPRO users. The service operates seven days a week, 12 hours a day, 9:00 am. to 9:00 pm. PACIFIC COAST TIME.

Subscriptions can be purchased at: six month \$168.00, one year \$198.00 or life time memberships for \$298.00. (Life time is defined as the total time you own any KAYPRO computer).

Membership covers the entire family or office and includes up to five units.

The following items are covered: PERFECT WRITER, PERFECT FILER, PERFECT CALC, PERFECT SPELLER, WORD PLUS, WORDSTAR, SPELLSTAR, CP/M, MS/DOS (FOR KAYPRO), DBase II, SUPERCALC., MICRO PLAN, PROFIT PLAN, DATA COMMUNICATIONS PROGRAMS, SUPERTERM, MODEM7 ETC., ALL PRINTER CONFIGURATIONS, SELECT SOFTWARE, ROCKY MOUNTAIN SOFTWARE and many other packages.

Questions are answered seven days a week toll-free at 800-352-9776.

Micro Computer Training Corp. is offering a FREE TRIAL week service to new KUG members or members who re-new. When calling give them your KUG ID number.



In Response ...

...The RETURN key on the main keyboard does not repeat ... however, the ENTER key on the numeric keypad does repeat. This make for faster movement of the cursor in some programs.

...A KUGRAM index of articles for 1983 has been prepared and will be available as will a binder for the 1983 issues. (See Binder article.)

...There is a character ROM that makes your Kaypro screen neater and more readable. It is available from Micro Cornucopia of Bend, OR.

...KUGRAM is a bi-monthly that is published every other month. Six issues annually. If we can get the help, we will attempt to publish EVERY month.

...The KUG bulletin board number is printed in every issue on the inside back cover.

...Your ID# is printed on the KUGRAM address label. The first four numbers represent your expiration date; i.e., 1184 is November, 1984. The letter and ending number is your ID.

...We use dBASE II to manage our membership list. It is stored on a 23 Megabyte hard drive from Media. The software is supplied by Media and is CP/M. The drive cable was installed "piggy back" onto the Z80 chip inside the Kaypro II.

...The entire KUG library and much of the CP/M public domain software programs will be available for "downloading" to all members through Compuserve (see front page editorial.)

...To remember to use SAFETY before shutting off the Kaypro 10, RENAME SAFETY.COM to OFF.COM and tape a card with OFF written in red onto the Kaypro.

UPGRADE YOUR KAYPRO II or 4 with

Plu*Perfect Writer

Enhancements for Perfect Writer versions 1.03 and 1.20

- One-touch commands—using any keypad key—plus normal keypad mode.
- One-touch switch to overwrite mode.
- Variable-size swap file, up to entire disk.
- Built-in directory listing.
- Change disks and automatic warm-boot.
- Pre-set the editor margins, tab and mode.
- Eliminates PW bugs—7 in v1.03; 5 in v1.20.

CP/M 2.2E

Enhancements for the CP/M operating system

- Automatic motor shut-off with settable delay.
- Program re-execution.
- 2-drive program search.
- Type-ahead buffer.
- Permanent printer/modem baud rate.
- Bi-directional TYPE function, by page or line.
- Automatic program start-up on cold-boot.
- Fastest possible full-disk copy—just 56 seconds to format, copy and verify!
- 6 user-group utilities included.

Perfect Writer, WordStar and CP/M are registered trademarks of Perfect Software, MicroPro, and Digital Research, respectively.

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A transparent "shell" for CP/M 2.2E that adds one-touch keypad commands to any program—WordStar, Perfect Writer, Formatter, Filer, Calc, Basic.... Each keypad key can represent a sequence of up to 255 characters.

Supplied with ready-to-use definitions. Or make your own, even while running a program! Programs may have separate definition files, or share definitions. A few possibilities....

"1" = your return address and telephone number

"2" = a PIP sequence to back-up files

"3" = a complete modem auto-dial/login sequence

"4" = an editing "macro" for Plu*Perfect Writer or WordStar

... your imagination is the limit!

And all normal keypad and keyboard characters remain available!

Two unique one-touch keys can temporarily "interrupt" any program:

HELP: Display information for the currently running program, then continue where you interrupted. You can create separate on-line help files for different programs.

CPM: Execute the built-in CP/M commands—list a directory; type, rename, delete or save a file; or change disks—then continue with the interrupted program.

All Plu*Perfect products are supplied with extensive documentation, demonstration files, and user-friendly configuration programs. User group discounts available.

†Write for information for KayPro 10 versions.

I'd like to upgrade my KayPro II_4_. Please send me:

Quantity	Disk	Product	Price†
_____	K-1	Plu*Perfect Writer and CP/M 2.2E	\$ 32.00
_____	K-2	Plu*Perfect Keypad (requires K-1 or K-3)	\$ 32.00
_____	K-3	CP/M 2.2E only	\$ 23.00
Subtotal:			_____
Deduct \$5 for two or more disks:			_____
California residents: add 6% sales tax			_____
Shipping and handling			\$ 2.00
Total:			\$ _____

Name _____

Address _____

Visa MC No. _____ Exp. _____

Signature _____

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*plu*perfect adj.: superlative.

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

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.

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!

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.

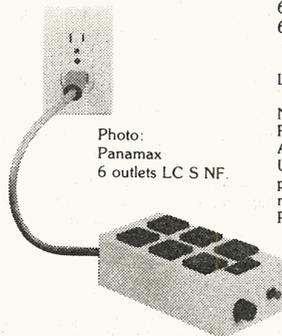


Photo: Panamax 6 outlets LC S NF.

"Spikes and surges can be the greatest threat to your computer outside a 4 year old child with a jelly sandwich aimed for the disk drive slot."

PANAMAX SURGE SUPPRESSORS

Description	List	Price
2 outlets, D	\$89.00	\$69.95
2 outlets, D NF	\$109.00	\$79.95
4 outlets, LC S	\$107.00	\$89.95
4 outlets, LC S NF	\$127.00	\$110.95
6 outlets, LC S RB	\$124.00	\$109.95
6 outlets, LC S RB NF	\$144.00	\$124.95

D: Connects direct to grounded wall jack.
LC: Includes 5 foot long heavy duty line cord.
S: Includes illuminated on/off switch.
NF: Includes EMI/RFI noise filter.
RB: Includes reset button.
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.
Panamax units are factory guaranteed for 24 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

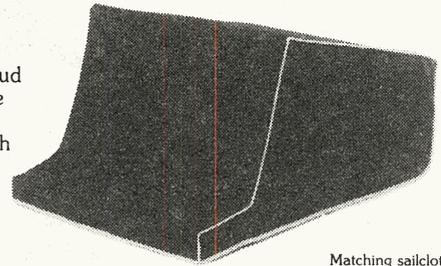
Introducing A Classic Form Fitting Kaypro Cover

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

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

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

Photo: Form fitting Kaypro cover.



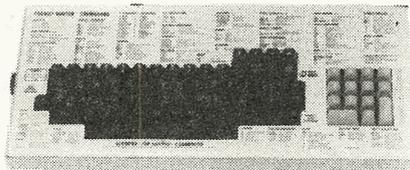
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No more going back to the book to get a two or three keystroke command or format. All Perfect Software commands and formats are conveniently listed in alphabetical order on the template, within the line of sight, at your fingertips. These templates will help you learn Perfect commands super fast, so you can make better use of your powerful software. You'll wonder how you ever got along without these useful tools. Central's special price for one template is \$18.95. If you want both, send \$35 and save. Please specify: Perfect Writer/Filer and/or Perfect Calc template(s) when you order. A Wordstar/MailMerge command Kleertex template for the Kaypro is also available for \$18.95. If you want all three of these tools, send \$49.95 for super savings. Complete satisfaction is guaranteed or money-back. Makes learning software a breeze. Great value. Order today.

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● Bulletin Board ●

Manufacturers. Please send us indepth information on your Kaypro compatible products. Our many clients have widely diverse hardware and software needs. Thank you.

Typing Tutorial REVIEW

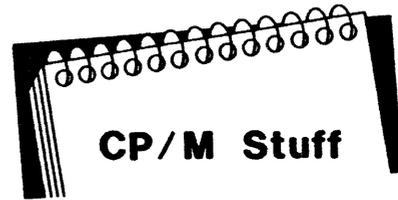
by Michael Simon

Pioneer Software, a division of CSI Specialties, Inc., Hesperia, CA, has developed a typing tutorial for the Kaypro using the CP/M disk operating system and MBasic. Intended to provide a from-the-ground-up self-teaching method for the beginning typist, it can also be used by anyone who already has the rudiments of typing.

The tutorial program is divided into three sections, which may be selected from the Main Menu. Each section in turn has its own menu which lists the individual lessons or review programs. First there is a 7-part section entitled "Typing Fundamentals," which is essentially a textbook introduction to the typewriter keyboard and its relation to one's fingers.

The actual lessons are divided into two groups, Beginning Lessons 1 through 5 and Advanced Lessons 6 through 15. Each lesson contains 25 35-character lines, and each line consists of a sequence of combinations of three or more letters. Errors are counted, and a grade is assigned at the end of the lesson (e.g., A- for 3 errors, C for 7 errors). At the end of the lesson the student is given a choice of repeating the lesson or going on to another lesson. The advanced lessons differ from the beginning ones both in the characters they use and in the fact that these lessons are timed, allowing the student to measure his speed as well as his accuracy.

The "advanced lessons" are not really very advanced—there is no lesson that uses the letters q and z, for example, and there is minimal use of any characters other than the lower case letters of the alphabet. Still, since it does contain the ingredients for drill and progress assessment, and it also provides textbook-style instruction for all of the usual typewriter functions in the "Typing Fundamentals" section, Typing Tutorial does represent a serious alternative to other ways of acquiring basic facility with the typewriter keyboard.



On your CP/M disk is a program named SUBMIT.COM. If you were brave enough to run it to see what happens, you probably got the message "Error On Line 001 No 'SUB' File Present."

Before we create a SUB file, let's find out what the SUBMIT.COM program does.

SUBMIT allows you to "chain" together a list of commands that you would like to have your Kaypro perform in sequence. The commands such as PIP, STAT, DIR, TYPE and the other CP/M stuff can be used. You can also ask SUBMIT to run a .COM file, if you like. Enough said ... let's try it.

Using your favorite word processor, create the following:

```
PIP B:=A:FAC.BAS
TYPE B:FAC.BAS
STAT B:*.
STAT A:*.
THAT IS GREAT!
```

Save this file with the name TEST.SUB. Now PIP the file TEST.SUB to your CP/M disk. Make sure that your CP/M disk has SUBMIT.COM and FAC.BAS on it.

Place your CP/M disk in drive A and "warm boot" <control> C. Place a blank formatted disk in drive B. At the A> prompt type SUBMIT TEST.

Notice that the commands you have written in your file called TEST.SUB were performed in order. Your disk in drive B now has FAC.BAS on it. Can you think of other uses for SUBMIT? How about calling for a program, working on it and then saving it to disk using SUBMIT? Try it. It really works well. Just remember the file MUST have a .SUB extension.

If you create some good .SUB files, send them to CP/M Stuff and we'll let other KUGGERS know about them.

TILT STAND

Goes where your KAYPRO Goes...



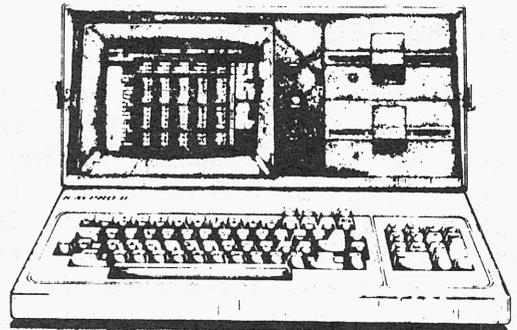
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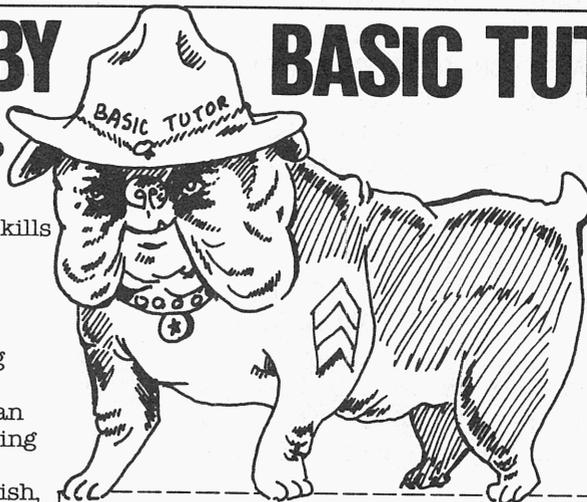
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PA RESIDENTS ADD 6% SALES TAX _____

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Best of KUGBB

FROM KEITH REDFIELD on BB

The reason some people may have had problems using Anchor Modems is that their phone had a serial number ending in DMG (i.e., 2500DMG). This means that these phones are grounded. There is a black wire inside the phone just after the telco wire enters the case. Cutting this wire will disable the ground and allow the modem to function. Anyone else using the Kaypro as a remote UNIX terminal?

FROM TONY DRAKE on BB

Here are all of the Kaypro I/O port numbers:

SIO CHANNEL A COMMAND/STATUS : 06H
(RS232)
SIO CHANNEL A DATA : 04H (RS232)
SIO CHANNEL B COMMAND/STATUS : 07H
(KEYBOARD)
SIO CHANNEL B DATA : 05H (KEYBOARD)

PIO #1 PORT A CONTROL : 1DH (SYSTEM
PORT)
PIO #1 PORT A DATA : 1CH (SYSTEM PORT)
PIO #1 PORT B CONTROL : 1FH (NOT
CONNECTED)
PIO #1 PORT B DATA : 1EH (NOT CONNECTED)

PIO #2 PORT A CONTROL : 09H (PRINTER)
PIO #2 PORT A DATA : 08H (PRINTER)
PIO #2 PORT B CONTROL : 0BH (INPUT, BUT
NOT CONNECTED)

Note that PIO #2 PORT B is initialized at cold boot time to be an input port, but it is still not connected outside the cabinet.

FROM DAVE BROWN on BB

If you are experiencing a lot of BDOS errors using Perfect Writer or other software when you are writing back to a file in B: drive, you must do a warm boot when you change file disks in B: drive. I was losing data a couple of times a week until I discovered this. The disk will be "read only" if you simply swap disks there. Since my dealer pointed this out to me, I have lost no data in months of operation.

Vendors

PROPERTY MANAGEMENT SYSTEM
from
Realty Software Company
1926 Pacific Coast Highway
Redondo Beach, CA 90277

FINANCIAL PLANNER
from
Metasoft Corporation
6509 W. Frye Road
Chandler, AZ 85224

GRAPHICS and REVERSE SCREEN BOARD
from
JFN Industries
361 N. Fuller Avenue
Los Angeles, CA 90036

5 MHZ SPEEDUP KIT
from
TDC Electronics
2907 Montclair Avenue
Cincinnati, OH 45211

EXPANDER FOR 8" DRIVES
from
Auburn Computer Center
1265 Grass Valley Highway
Auburn, CA 95603

EDUCATIONAL SOFTWARE
from
Maji-Miti
P.O. Box 3244 WVS
Kamuela, HI 96743

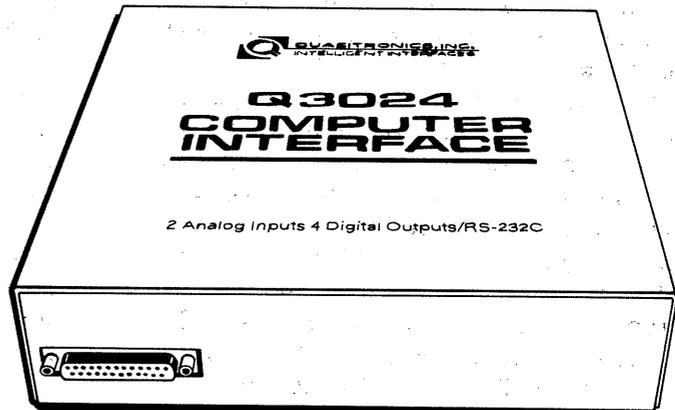
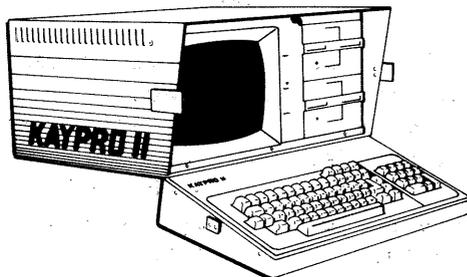
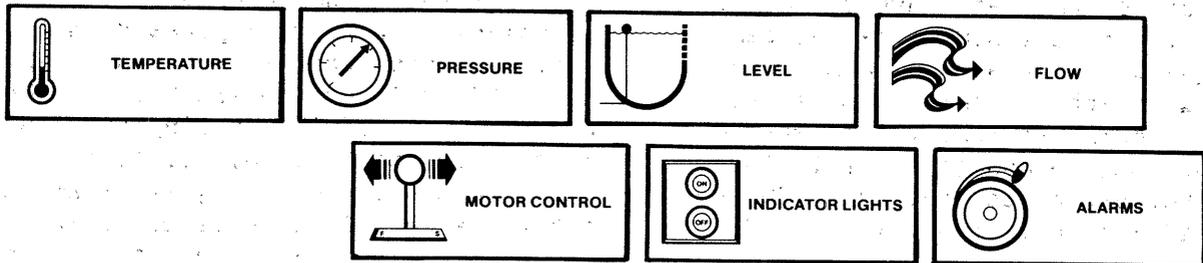
TORONTO RCP/M SYSTEM THREE
from
Micro-Comp Services
4691 Dundas Street West
Islington, Ontario M9A 1A7

COMPUTER FURNITURE
from
Facit, Inc.
235 Main Dunstable Road
Nashua, NH 03061

* *

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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- Can rescale information into engineering units for your own programming.
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- Sample software examples included on disc.
- Compact—only 8 $\frac{1}{2}$ " x 8 $\frac{1}{2}$ " x 2".

And there's more!

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*List price \$395.00 each (plus shipping). Quantity discounts available.



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A Report from COMDEX

The Grown-up's Toy Store
by: Gregg Platt
PeopleTalk Associates

For those of us who are awe-struck by gadgetry, the recent COMDEX extravaganza in Las Vegas was like a dream come true. This show—which occurs twice each year—is the computer industry's way of introducing new products to retailers. The fall show attracted more than 90,000 "compu-nuts" from all around the world.

Not suprisingly, the KAYPRO booth was one of the busiest at the show. A great deal of interest was generated by their introduction of a new desktop computer called the Robie. The new machine follows true to KAYPRO's form—it looks like an ugly duckling among its sleeker competitors; but it includes some very interesting high density floppy drives (two 5 1/4 inch disks deliver more than 2.5 million characters of storage each). This means that a twin-drive Robie will be able to store 5.2 "megabytes" on two floppy disks. At a price of \$2495, we're betting this ugly duckling may prove to be another swan for Kaypro. The only features it lacks are a 12-inch screen and IBM compatability, and you can bet they are working on those problems. (Rumor has it that Robie had 400k drives as late as one week before the show but grew the new drives overnight after a negative New York press conference.)

Other new offerings demonstrated at the booth included two products which allow multiple Kaypros to be tied together in a local network (thus permitting II's or 4's to access a KAYPRO-10's hard disk), the IBM compatible KAYPRO-II+ and 4+, and a version of WordStar for the KAYPRO—in Hebrew!

Following KAYPRO's lead, several vendors displayed portable computers with built-in hard disks. We were amazed that the same companies who were saying such a system was impractical a few months ago have suddenly seen the light. However, everyone else seems to feel that a system comparable to the KAYPRO-10 ought to cost \$900 more than KAYPRO charges. Good news for KAYPRO—bad news for competitors.

Of course, KAYPRO wasn't the only vendor with innovative products. Every one of the nearly 1,400 exhibitors demonstrated their latest and greatest.

Perhaps the most interesting observation we made at the show was the number of manufacturers who claimed to be "IBM compatible." We were impressed with how many vendors were touting their ability to be "just like" the IBM-PC. One member of the PeopleTalk contingent remarked that it reminded him of his fourteen year old's obsession to be just like every other kid. It's neither unique nor innovative, but it's a safe course (especially if you're immature and want to be part of the crowd)!

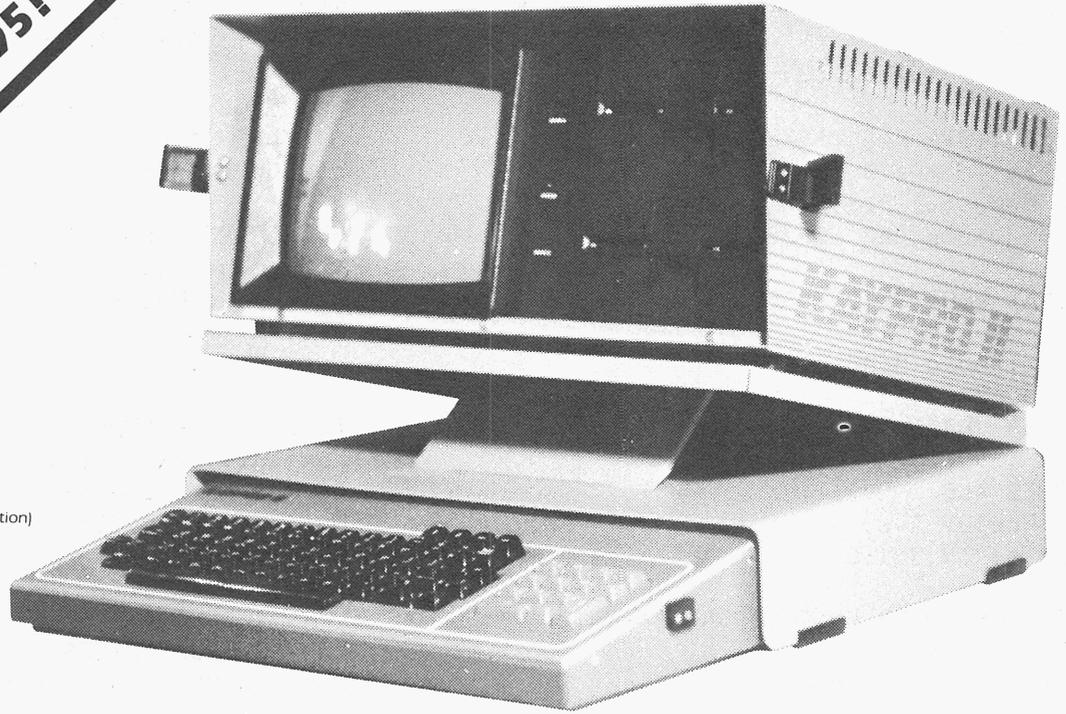
After much discussion, we've agreed that the most impressive products we saw were the new family of briefcase portables. Would you believe a complete IBM compatible computer with 256k of memory, two 1-megabyte floppy drives, flat screen, a complete selection of software, and a built-in printer, which tips the scales at around 15 pounds and costs about \$3,000? One prognosticator we spoke with claimed that next year this same system will retail for around \$2,000 and its lighter weight competitors will offer similar features in an eight- to ten-pound package.

On the software front, it became clear to us that the industry is moving rapidly toward the birth of a new generation of ultra-sophisticated software—programs that talk, screens you can touch to indicate your selection, databases which do virtually everything except read your mind (We lost track of how many times we heard someone say: "Next year's version should include that feature..."), word processors as far separated from current software as the KAYPRO is from an abacus, and spreadsheet programs sophisticated enough to keep track of the entire national debt of all the governments in recorded history—but still not smart enough to balance your checkbook!

Actually, we came away glad we'd bought computers a year ago. Next year's decisions will be a lot more difficult.

* * *

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Only the Icarus Desktop Stand has all these features:

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- Tough, scratch-resistant baked urethane enamel finish.
- Color-matched with the Kaypro — it actually looks like part of the machine.
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At last you, too, can enjoy the comfort of a desktop computer with the portability of your Kaypro.

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