

WELCOME TO THE LAND OF KUG

This is the first newsletter to be mailed to our members. Chances are, that if you are reading this, you are one of our charter members.

Back in the spring of 1982, we bought our first Kaypro II (then called the Kaycomp II). All the frustrations that were packaged with that first delivery had us dreaming (screaming?) for help. We were told that help was on its way, but alas, it never seemed to be there when we needed it. "SUPPORT, WE WANT SUPPORT!" but again there were too many problems at the factory and we were left to work them out for ourselves. A few of us brave Kaypro Users asked Non-Linear Systems if we could get their support in starting a Kaypro Users' Group.

"YES...YES...YES...DO IT!" they all agreed. So on September 10th 1982 we entered the land of KUG.

Ira and Al started to develop a plan to tame the jungle of KUGLAND. They needed all the help they could get. That's when Bob, Hope, Roz, and Gayle came to the rescue.

First, we had to overcome the problem of reaching other Kaypro users. That was solved with the help of David Kay who followed our suggestion and had a KUG card shipped with each Kaypro Computer. Second, was being able to get you to become members and also to contribute information that would help other members. This is where your response has been extremely gratifying. Some of you have already written to us with suggestions, articles and programs that will appear here in our own KUG Newsletter.

We will continue to tame the undergrowth of KUGLAND with additional avenues of information such as;

- 1) A better understanding of SBASIC with the help of a new tutorial oriented manual.
- 2) Reviews of both hardware and software available for the Kaypro II.
- 3) Word Processing helps for the writer as well as the newcomer.
- 4) Information about new KUG chapters around the country.
- 5) Answers to your questions about Kaypro hardware and software through the newsletter and our phone-mail program.

In a very short time we will have our own bulletin board out of the Chicago area. You will receive further information and telephone numbers soon!

As the new year appears on the horizon, we at KUG wish you and yours health and happiness. May the land of KUG become a garden filled with the fruits of satisfaction.



enter ...



Box 100

How do I discover what programs are out there to use and which are proven, tried and true vs. new untested software?

J. Robert Griffin, Sacramento

Unfortunately, there's no pat answer for track-proven software. There's quite a bit of canned software on the market and very few guarantees. To find out what is available, check with your dealer or a software store in your area. The Kaypro will read any Xerox 820 5 1/4", single sided, single density disks. Be sure that it has an install program so it can be configured to a Lear-Siegler terminal. Get a demonstration exactly as you plan to use the particular program, to see if it does what you want. If not, find what you want and check into getting it running on the Kaypro. The best way to determine what software works, check reviews and find out what other users have to say about the program. Don't fall into the belief that the companies with the biggest ads produce the best software.

We will be reviewing software in each issue, though there's a great deal of software we evaluate which doesn't reach our pages. If you have a specific request, let us know. If there are enough requests for a particular software package evaluation, we'll try to get it and share our findings with you.

* * * *

I have a question regarding the RND function in SBASIC. When using this function, it does not deliver a new random number sequence each time a program is run. For instance, using RND(1) in a program will deliver a sequence of random numbers, but the same sequence, starting with the same number each time the program is run. How do you get a completely random number each time a program is run?

Anthony George, Salem

The RND function is an algorithm designed to produce a series of random numbers. Given the same starting point, the algorithm will produce the same series of numbers. Unfortunately the starting point is set by S-Basic and therefore will always produce the same series of numbers. The number in the parenthesis is used as a true/false indicator. If the number is 0, a false condition is passed to the function telling it to return the last number it generated. If the number is not equal to 0, a true condition is passed to the function indicating that the next number in the series is to be returned. To make the function appear more random, you could select the third, sixth, ninth etc. numbers in the series by calling the function three times before using the number returned. The next time the program is run you could use the second, fourth, sixth, etc. numbers in the series. This can be accomplished by placing the function in a FOR/NEXT loop that is controlled by a number entered at the beginning of the program. (see the sample program)

```
VAR PICK.IT,X = INTEGER
VAR RANDOM.NUMBER = REAL
INPUT "ENTER A NUMBER BETWEEN 1 AND 10";PICK.IT
DLOOP.FOREVER FOR X = 1 TO PICK.IT
RANDOM.NUMBER = RND(1)
NEXT X
PRINT RANDOM.NUMBER
GOTO DLOOP.FOREVER
```

NEW ... the Kaypro 10

Non-Linear Systems has announced the second member of the Kaypro family of portable computers, the Kaypro 10. As we understand it, several major enhancements were made to the Kaypro II to arrive at the Kaypro 10. Along with changing the cabinet color to black & white, the Kaypro 10 has one double density disk drive, and a 10 megabyte hard disk. Another major feature of the Kaypro 10 is the addition of high resolution CRT graphics capabilities. Two more I/O ports were added; a second RS232 serial port, and an input port for an optional light pen. We are told the unit with bundled software will retail for under \$4000, and should start appearing at dealers sometime in February, 1983.

In Response ...



to your most frequently asked questions...

...Data base management is available, with dBase II from Ashton-Tate being perhaps the most widely used and best. Be sure to ask for Xerox 820 5-1/4" single density format. It is user friendly and easily installed. Retailing for \$700, it is, we believe, worth the investment...

...Hard disk storage is available both as a replacement for the B Drive and as an outboard add-on. Kug has not evaluated this; check with your dealer for more information...

...SBASIC help is on the way soon. A learning guide and a rewrite of the SBASIC user manual are in the works. For specific help, write to us. We will be featuring conversions of member written programs in the newsletter, from MBasic to SBASIC...

...MBasic is available from your dealer..

...The Perfect software updates will be available very soon through your dealer. The major hold up in shipping was due to the unavailability of the Perfect series manuals...

...Our information indicates that the Smith Corona TP1 cannot be configured to Select. Many of you asked for help with this, and we are unable to offer any at this time. The problem lies in the fact that the TP1 does not have a switch to suppress the line feed when the carriage returns to underline and bold. If anyone has had success, please let us know so that we may share that with the members who have the TP1...

...The Kaypro Users Group is not run by Non-Linear; we are an independent, Kaypro recognized organization. We have nothing to do with slow shipments or manufacturing problems...

Contributions ???

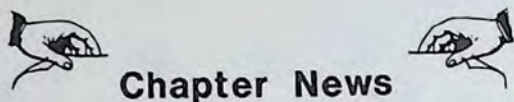


On the original membership application, there was a line asking for members to contribute to our Newsletter. Some of you put a question mark in the "yes or no" box. The contributions we are looking for are articles that would be of interest to other members... perhaps your fond experience with "SBASIC" or a suggestion on how we should approach your needs through the KUGRAM. The new applications do not carry this line, but we are counting on you to help us help other members with their problems.

If it is at all possible, you should send us your articles or programs on disk. The articles must be written using Select or Perfect Writer with a width of 40 characters. The programs must be able to run on the Kaypro II so we can check them. All disks will be returned with added software that you can use. (either games or utilities). If you want to find out what other members' needs are, write to KUG at Box 100, Malverne, NY 11565.

Vendor Information

The request for vendor information stated on the application brought an overwhelming 98 percent "YES" return. Therefore, we will be asking vendors to participate with us by advertising in our future publications. Vendors who are interested can reach us by writing: KUG Vendor Information, Box 100, Malverne, NY 11565.



Chapter News

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

If you would like to join or form a chapter, let us know and we will print your name and address so that other users in your area can contact you directly.

N.W. KAYPRO USER'S GROUP
c/o Ezra Shapiro
2130 N.W. Everett Street
Portland, Or 97210

N.W. KUG offers both resident and non-resident memberships. They have an enjoyable and informative newsletter. Non resident dues are \$10 and resident dues are \$25 and \$40 depending on the type of membership. Contact Ezra for more information.

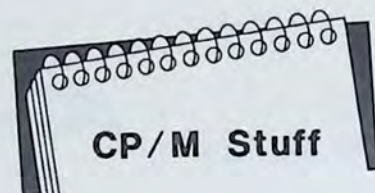
NEW YORK AMATEUR COMPUTER CLUB
P.O. Box 106
Church St. Station
New York, N.Y. 10008

N.Y.A.C.C. meets the second Thursday of each month. The Kaypro Users group is in formation now, and will meet at the regular club meeting. Call for time and place of meeting...(212)864-4595

The following people have expressed an interest in meeting with other Kaypro users in their area:

David and Susan N.
Eugene, Oregon

Alfred C.
Shrewsbury, Mass.



CP/M Stuff

CP/M, the Kaypro operating system, has some good stuff that will help you overcome some of your frustrations and will also answer some questions you may want answered while working with other Kaypro software.

Let's try some experiments using the CP/M operating disk in drive A: and a document or program disk in drive B:.

READY? O.K. ... At the A> prompt type DIR and <return>. WOW! Look at all the files on the CP/M disk. We will explain some of them here, but don't get too carried away because some can create problems if you don't understand them. Now type DIR B: and <return>. This time you get a list of all the files on your disk in drive B:.

Notice two programs or maybe three that look familiar? Sure, you must have used FORMAT if you have a disk in drive B: . The COPY program should have been used, unless the disk you are using is the original. (It should NOT be!) And ... if your disk in drive B: is "bootable", then you must have used the SYSGEN program.

"So, how much space is left on the disk?", you ask. One of the CP/M files is named STAT.COM. Just type the word STAT (CP/M does not need the extension COM). Now you know how much space (bytes) is left on the disk. Try using STAT on drive B: (STAT B:). "GREAT ... but how much space does each file take up on the disk?" Here's where you become a "pro". Just type STAT *.* (If the screen scrolls too fast just hit <control> S to stop it and <control> S again to continue). Now do it for the disk on drive B: (STAT B:.*).

There are many other ways that STAT can be used, but, we will continue to explore the vast power of CP/M in other issues of the Newsletter. That is, if you want us to continue. Let us know.

Open wide and say Ahhhhhh!

by Dr. Kug DeBug

Many members have requested information on how to clear the screen, display the greek alphabet, etc. The most recent owners of Kaypro-II's already have the cure at their finger tips. Non-Linear has provided the video control and escape sequences for the screen which can be found on the very last page of the Kaypro II User's Guide. For those of you less fortunate, relief is provided when you use Dr. DeBug's prescribed tables.

DESIGNATION	DECIMAL	HEX
BEEP	07	07
BACKSPACE	08	08
LINE FEED	10	0A
CURSOR UP	11	0B
CURSOR RIGHT	12	0C
RETURN	13	0D
CLEAR TO END OF SCREEN	23	17
CLEAR TO END OF LINE	24	18
CLEAR SCREEN	26	1A
CURSOR HOME	30	1E

ESCAPE SEQUENCES

DISPLAY LOWER CASE ALPHABET
ESC A 27,65
DISPLAY LOWER CASE AS GREEK
ESC G 27,71
INSERT LINE
ESC E 27,69
DELETE LINE
ESC R 27,82
POSITION CURSOR
ESC = ROW+32,COLUMN+32

Now for some examples of how to put this information to work.
To clear the screen from an S-Basic program, simply say:

```
PRINT CHR(26);
```

To position the cursor some where on the screen do the following;

```
PRINT CHR(27)+"="+CHR(ROW)+CHR(COLUMN)
```

Where row is the row number 1 -> 24 plus the value 32 and COLUMN is the column number 1 -> 80 plus 32.
To position the cursor at the center of the screen (row 12, column 40) simply state:

```
PRINT CHR(27)+"="+CHR(34)+CHR(72);
```

Once the cursor is positioned, an INPUT or PRINT statement will cause data to be read or written from that position.

An additional note: the control values 00 thru 26 (decimal) can be enter from the keyboard by depressing the control key and a letter of the alphabet simultaneously. (the 00 value is control @, 01 is control a, 02 is control b, etc.)

To clear the screen while the CP/M prompt is displayed simply depress control and z together then press return.

Starwriter

Some users have expressed difficulty at getting the C Itoh F10 Starwriter to work with either Select or Perfect Writer. If you are having difficulty, here are a couple of things to check:

Problem: When you enter printer echo mode (control p) or list something to the printer using PIP or TYPE you get double spacing where you think it should be single spaced.

Solution: Check to make sure switch SW412 is open (see users' manual for switch location). If it is closed, the printer will automatically do a line feed after receiving a carriage return character.

Problem: After installing the Starwriter as the printer for Select (use Diablo 10 or 12 for Perfect Writer) and trying to print a document, all you get are form feeds with a few random characters printed.

Solution: Check to make sure switch SW411 is open. In order to work properly with word processing software, the printer must be in serial print mode (switch SW411 open) rather than line print mode. If your printer is in line print mode it will not understand any of the word processing commands sent to it by the word processing software.



With word processing one of the major forces that brings us to Micros, spelling checkers, in their various forms are a more than welcome friend. These computerized dictionaries fall into two basic categories; those that contain roots and endings, and those that contain whole words.

The former type of checker still allows for many spelling or typing errors to slip by. This is best illustrated as such: You wish to type the word "meeting". Inadvertently, you type "meting". Since "met" is a word listed in the dictionary, and "ing" is an appropriate suffix, "meting" would be an acceptable word.

The latter type of checker contains full words. Admittedly there is a limit to the number of words that will fit into the dictionary, being totally dependent on disk size, but it offers a much better chance of errors being detected.

Along that line, we have evaluated "PROOFREADER" from Aspen Software. It features the Random House Dictionary, and is compiled by Bruce Wampler, who holds a Doctorate in Computer Science.

PROOFREADER is easy to use, quick in checking lengthy text, and comes with easy to understand documentation. The one drawback to PROOFREADER is that it takes almost as long to proofread a short document as a long one. However, Bruce assures us that the new version of PROOFREADER, which is currently available, has overcome this problem.

After introducing PROOFREADER, the manual instructs in backing up the disk, a point well taken. The documentation starts with an overview of the steps involved in proofreading, then instructs on how to go about checking a document.

First, PROOFREADER reads the file, makes a list of the words, sorts and looks them up in the dictionary. If it doesn't find the words in the master dictionary, it checks the auxiliary dictionary.

When the checking is completed, PROOFREADER will tell you the number of unknown words. This, of course, does not necessarily indicate that the words are incorrectly spelled, only that they are not found in the dictionary. Typical examples of words in this category might be proper nouns -- names of people and places, or technical words that are geared to a specific trade or profession. These words can easily be added to your own auxiliary dictionary.

At this point, you can correct the file, display the unknown words on the screen, exit from PROOFREADER, print the unknown words, review and edit them or save them.

I generally prefer to display the unknown words, as recommended. Once this is done, you may choose to correct the unknown words interactively, or have the them marked. In the interactive mode, the entire document scrolls on the screen until an unknown word is found. It then stops at the word in question, so that you can see it in context. When you choose to correct interactively, you can accept the word for one time only or for the entire length of the document, correct the word, look it up in the dictionary, learn the word for the auxiliary dictionary or get help.

PROOFREADER is interactive with SELECT, and operates on single keystrokes. All in all, it is comprehensive in its use. Most importantly to us Kaypro users, the documentation is user friendly.

* * * *

```

0001:00
0002:00 comment      This sample program in SBASIC will ask you to enter
0003:01               some text. It will then erase that text from that line
0004:01               and place it at a lower position. The program is a loop
0005:01               so you must use <ctrl> C to exit.
0006:01 end
0007:00
0008:00
0009:00 var x,y = integer
0010:00 var resp = string
0011:00
0012:00 procedure place
0013:01   print chr$(27);chr$(61);chr$(x);chr$(y);
0014:01 end
0015:00
0016:00 begin
0017:01   100 print chr$(26)      rem - *** clear screen ***
0018:01   x = 49
0019:01   y = 41
0020:01   place
0021:01   print "I will put it here > ";
0022:01   x = 39
0023:01   y = 41
0024:01   place
0025:01   print "Input here > ";
0026:01   input3 resp
0027:01   x = 39
0028:01   y = 52
0029:01   place
0030:01   print "
0031:01   x = 49
0032:01   y = 63
0033:01   place
0034:01   print resp
0035:01   x = 54
0036:01   y = 41
0037:01   place
0038:01   print "Hit enter to continue....";
0039:01   input resp
0040:01   goto 100
0041:01 end
0042:00               ***** End of program *****

```

SUBMITTED BY JERRY CRAFT

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

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