KAYPRO 10 CHANGE

August 1, 1983

The setup of programs on the hard disk has changed.
Also, there is now a Master Menu which appears when
the KAYPRO 10 is turned on. From this Master Menu,
you can use word processing, spreadsheet application,
programming languages, and modem communications.

For those users who want to wander in the world of
CP/M* system utilities, press the ESCape key to exit
to CP/M. (It may be necessary to press the ESCape
key three times.)

While wandering in CP/M, note these points:

* GENFLPY does not report bad sectors.

* Before using MOVCPM, consult the CP/M* manual by
  Digital Research which is included with the KAYPRO
  10.

The BACKUP program covered in the manual has been
replaced by MUFBAR which is accomplished through the
Master Menu.

Dealers, Please Note: If you load the new release
onto a hard disk which had a prior release on it, be
sure to load the whole release, including operating
system 2.2D. Then run PUTSYS.COM and PUTOVL.COM. If
they are not run, then trying to operate WSKP.COM
will hang the machine.

*CP/M is a registered trademark of Digital Research.

FILES ON THE HARD DISK OF THE KAYPRO 10

FILES IN USER AREA 1--WORDSTAR AND The WORD Plus

ANAGRAM.COM

This program is used by The WORD Plus. It's a word-unscrambling program which will help you solve puzzles.

DICTSORT.COM

This program is used by The WORD Plus. This sorts all the words in a document into alphabetic order.

FIND.COM

This program is used by The WORD Plus. This is a general-purpose search utility which searches the dictionary for word patterns. FIND will help you solve a variety of word puzzles, locate rhyming words, and much more.

HOMONYMS.TXT

This program is used by The WORD Plus. It contains a list of words which confuse many people. Most of these are "HOMOPHONES" (words that sound alike when pronounced, but that are spelled differently).

HYEXCEPT.TXT

This program is used by The WORD Plus. This is a list to which the user adds words which are the user's exceptions to hyphenation rules.

HYPHEN.COM

This program is used by The WORD Plus to automatically hyphenate words. It can read a document file and insert soft hyphens into words longer than a given length, or it can be used on-line to list hyphenation points for words you type.

KP-RESET.COM

This resets the numeric keypad to values which have been configured into the BIOS.

LOOKUP.COM

This program is used by The WORD Plus. This tries to 'un-spell' words and find them in the dictionary. It will search through the dictionary and print out any matches of likely corrected spellings.

MAINDICT.CMP

This program is used by the The WORD Plus. This is the main dictionary used by The WORD Plus.

MARKFIX.COM

This program is used by The WORD Plus. This is a general-purpose document-marking and correction (fixing) tool. It is used during spelling checking to make corrections and mark mispelled words in your files.

PRINT.TST

This program is a test file used by WORDSTAR to make sure that your printer will print correctly.

REVIEW.COM

This program is used by The WORD Plus. After SPELL has finished, control will pass to this program which

will allow the user to choose from several options
(i.e. correcting mispelled words, adding words to the
dictionary, marking for correction).

SPELL.COM

This program is used by The WORD Plus to read through
a document and write out a list of all words that it
didn't find in the dictionary.

TW.COM

This is The WORD Plus.

UPDICT.CMP

This program is the update dictionary for The WORD
Plus.

WC.COM

This program is used by The WORD Plus to count the
number of words in a document.

WINSTALL.COM

This is an installation program for WORDSTAR.

WORDFREQ.COM

This program is used by the The WORD Plus to compile
a list of words from a text file. It also keeps
track of how many times each word appears in the
document. After this, a file with a .FRO extension
is run to create a list of all words in the document
and to indicate how many times each word is used.

WS.COM

This is the program, WORDSTAR. It is a word
processor system.

WS.INS.

This is a support program to the WORDSTAR installation process.

WSKP.COM

This program initializes the numeric keypad to be used as a function keypad.

WSMSGS.OVR

This is a support file for WORDSTAR.

WSOVLYL.OVR

This is a support file for WORDSTAR.

FILES IN USER AREA 2--MICROPLAN

INCOME.LOG

Is one of two files used in the MICROPLAN INCOME MODEL. The other file is INCOME.TBL.

INCOME.TBL

Is one of two files used in the MICROPLAN INCOME MODEL. The other file is INCOME.LOG.

MPERROR.FIL

Contains messages for different errors that MICROPLAN may encounter.

HPHELP.FIL

Contains help messages for MICROPLAN.

MPMENU.FIL

Contains the menu prompts for MICROPLAN.

MPFORM.OVL

Is used by MICROPLAN.

MPLOGIC.OVL

Is used by MICROPLAN.

MPPRINT.OVL

Is used by MICROPLAN.

MPSERIAL.NUM

Contains the serial number assigned to your disk by CHANG LABS.

MPSET.OVL

Is used by MICROPLAN.

MPSETUP.FIL

Is used to store customized parameters for MICROPLAN.

MPSHOW.OVL

Is used by MICROPLAN.

MPSTAT.OVL

Provides statistical capabilities for MICROPLAN.

PLAN.COM

Is the actual MICROPLAN command program.

FILES IN USER AREA 3--M-BASIC, O-BASIC, AND GAMES

MBASIC.COM

M-BASIC is the CP/M version of the high-level language BASIC-80. It is an easy-to-use BASIC interpreter which incorporates features that can be used by both the beginner and the experienced programmer.

OBASIC.COM

O-BASIC is an older version of M-BASIC. The following games are written in O-BASIC: Bio, Blkjk, Chase, Horse, Rocket, Strtrk, Taxman, trade, and Wump.

ALIENS.COM

This is actually six games in one which you call up from its menu, including: Bloodbath, We Come in Peace, The Aliens Strike Back, Invisible Alien Weasels, Klinker, and The Black Hole.

BIO.BAS

Bio plots biorythmic curves. The subject enters his or her birthday followed by the first date at which to begin plotting the biorythm. The resulting graph indicates whether their physical, mental, and emotional biorythms are high, low, or critical.

BLKJK.BAS

Play casino blackjack against the computer. You can wager up to $500 with casino rules, including insurance, splits, and doubling down.

CATCHUM.COM

Catchum is a copyrighted game from Yahoo Software included with the M-BASIC files. The game puts your

cats (C) into a maze of dots, which you eat as you go along, avoiding the monster As. Energy Os transform the As into Ms. Eat Ms, and nab the dollar sign ($) to gain extra points.

CATCHUM.DAT

The data file used with CATCHUM.COM.

CHASE.BAS

Caught in a maze of high-voltage fence posts and five security machines, your task is to destroy all of the security machines before they get you.

HORSE.BAS

Where the "turf meets the surf" on a KAYPRO. This game takes you to the racetrack. You can bet on horses to win, place, and show. Watch the horses as they're coming around the bend into the home stretch.

LADDER.COM

Ladder is a copyrighted game from Yahoo Software included with the M-BASIC files. It is played by moving Lads left, right, up, or down (using the right keypad: 4=left, 6=right, 8=up, 2-down and any other number to stop). the object of the game is to get your Lad to climb the ladders (H) to the highest level and reach the dollar sign. Avoid rolling barrels (o), grab the ampersands (&), and use the space bar to jump over obstacles. There are five levels of difficulty from which to choose that will increase the game's speed.

LADDER.DAT

The data file used with LADDER.COM.

MBMENU.BAS

MBMENU is a menu program written in M-BASIC which can be entered from the master menu. Menu selections include: M-BASIC, O-BASIC, and twelve games. The program creates or appends a submit file, placing two records in the file (the first record contains MBASIC MBMENU, the second contains selection's command name). the $$$.SUB file executes (from the bottom up) when the system is entered.

ROCKET.BAS

Rocket is a lunar landing simulation game. You start at 500 feet above the lunar surface at a downward velocity of 50 ft./sec. with 122 units of fuel. You specify how much fuel you want to use for each turn, and down, or up you go.

STRTRK.BAS

The Strtrk game puts you in command of the Federation Star Ship, with warp drives, phasers, and photon torpedoes at your disposal to combat Klingons.

TAXMAN.BAS

Play Taxman to beat the Taxman at his own game. You begin with a list of whole numbers and play by taking a number from the list. The taxman gets all of the factors of your number that are left. You proceed by choosing numbers until all the numbers are gone; and the one with the highest total wins.

TRADE.BAS

Trade is a game for 1 to 4 players. The object is to establish interstellar trade routes and amass money based on stock purchases, mergings, and splits. The resulting dividends are used to buy more stocks to increase holdings in companies, such as Betelgeuse Limited.

WUMP.BAS

This is a game of Hunt the Wumpus. You try to catch
the Wumpus in a cave of 20 rooms while avoiding
bottomless pits and super bats. With each turn, you
can move to another room or shoot a crooked arrow.
The Wumpus is sleeping, and if you wake him, he may
eat you.

FILES IN USER AREA 4--C-BASIC PROGRAMMING LANGUAGE

CBMENU.COM

CBMENU allows the user to develop, compile, and
execute C-BASIC applications without interfacing with
the A4> of CP/M. Identical results may be achieved
by executing the appropriate files from the A4/
prompt of CP/M.

CANDR-C.COM

CANDR-C is a support utility for CBMENU. This file
performs the compilation and execution requests for
CBMENU's "compile and run" option.

CBAS2.COM

C-BASIC source code of file type .BAS must be
compiled before it can be executed. CBAS2 compiles
C-BASIC source code, producing compiled intermediate
code of file type .INT.

CRUN2.COM

Compiled C-BASIC code may be executed (run) using
CRUN2. This file is provided to allow execution of
C-BASIC code which was compiled under versions of
CBAS prior to CBAS2.

CRUN238.COM

Compiled C-BASIC code may be executed using CRUN238.
This file is provided to allow execution of C-BASIC
which was compiled under CBAS2.

XREF.COM

Identifiers used in a C-BASIC program may be listed
alphabetically using XREF. The identifier usage
(function, parameter, or global) is provided, along
with a list of each line where that identifier is
used.

FILES IN USER AREA 5--S-BASIC PROGRAMMING LANGUAGE

BASICLIB.REL

Support file used by S-BASIC.

CANDR-S.COM

This is a support utility for SBMENU. The file
performs the compilation and execution for SBMENU's
compile and run option..

DPLAY.BAS

This program illustrates the sequential access of a
random disk file, specifically working with the
record.sequential on/off. Then all variables of a
random record must be read or written in one
statement. If it's on, you can read or write part of
a random record.

FAC.BAS

This program computes the factorial of an inputted
number once the program has been compiled.

GRAPHICS.BAS

Section of S-BASIC code to be included in an S-BASIC
program. It is a set of procedures to draw simple
geometric shapes in graphics.

GRAPHICS.DOC

This is documentation to the GRAPHICS.BAS program.

OVERLAYB.COM

This is a support file of S-BASIC.

SBASIC.COM

This is the S-BASIC compiler.

SBMENU.COM

Allows the user to develop, compile, and execute S-
BASIC application without interfacing the A5> of
CP/M. Identical results may be achieved by executing
the appropriate files from the A5> prompt of CP/M.

USERLIB.REL

Support file used by S-BASIC.

XAMN.BAS

This program lets you examine a disk for bad sectors;
look at and change data in sectors; map a disk or
file; and compute logical blocks.

FINDBAD

FINDBAD.COM is a utility program that checks a disk
for bad sectors. It is normally used after a hard
or floppy disk has been formatted or when you are
getting BAD SECTOR errors on a floppy diskette.

Any bad sectors are gathered into a file called
[UNUSED].BAD, so that CP/M will not try to use these
bad sectors for any of your files. This program
locks out data in any blocks it finds to be bad.

All remaining files can be copied onto a new disk.
The old disk should then be discarded. Your files
are too valuable to be trusted to any disk that is
developing bad sectors.

To run FINDBAD on a diskette:

   1. From user 0, log onto drive C by typing: C:
      Press RETURN.

      On the screen you should see: C0>

   2. Type: A:FINDBAD
      Press RETURN.

      You will see:

         FINDBAD - ver 5.4
         Bad sector lockout program
         Universal version

         Type CTL-C to abort

         Testing directory area...

         Testing data area...

FINDBAD will print an asterisk for each track as it checks the disk.

* If any errors are found, the track and sector number will be printed on the screen. The check will continue until the whole disk has been tested. Then control will return to the operating system.

* If no bad errors are found, FINDBAD will print the message, No bad blocks found. Then control will return to the operating system.

Any bad sectors will be gathered into a file named [UNUSED].BAD. DO NOT ERASE THIS FILE.

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CHECK

CHECK.COM is a disk verification program for your
KAYPRO 10 hard disk. This program is for exper-
ienced users only.

Before using this program, there are some things you
should know about your hard disk.

   * Within the check program only, the hard disk is
     addressed as drive 1. Logically, to the opera-
     ting system, it is divided into drives A and B.

   * Four read-write heads are used. Heads 0 and 1
     access drive A. Heads 2 and 3 access drive B.

   * Disk 1, cylinder (same as track) 0, heads 0
     through 3 refers to a critical area of the disk
     containing the Operating System, BIOS, Error
     messages, and some overlays for screen graphics.

     Should your KAYPRO 10 refuse to boot from the
     hard disk, run the check program on this area.
     If no permanent errors are reported, use PUTSYS
     and PUTOVL to rewrite the system information.

     The commands to CHECK for this area are:

          FIRST DISK, LAST DISK? (0, 3) 1, 1
          FIRST HEAD, LAST HEAD? (0, 3) 0, 3
          FIRST CYLINDER, LAST CYLINDER? (0, 305) 0, 0

     Cylinder 1 is reserved. Don't mess with it.

     Cylinders 2 through 6 contain the direc-
     tories for drives A and B.

     Cylinders 6 through 305 define the data
     storage area for your programs and data.

USING CHECK.COM

1. Go to drive A, user area 0.

2. Call the program by typing: CHECK
   Press RETURN.

   There will be a copyright message stating that
   it is suitable for use only on the KAYPRO 10.

   During the following entries:

   > To back up to the previous prompt, press
   > ESCape.

   > To return to the operating system from the
   > first entry, press ESCape.

   Next, you will be asked:

   > FIRST DISK, LAST DISK? (0, 3)

3. Reply by typing: 1,1
   Press RETURN.

   Any other numbers will cause CHECK to attempt
   to select and test non-existent disks 2 and 3.
   There will be a message that the disk (that
   isn't there) is not ready. Then CHECK will
   give a 60-second countdown while it tries to
   access the disk. Finally, you will be told
   that you are either accessing a non-existent
   disk or you have a serious problem.

   The next prompt is:

   > FIRST HEAD, LAST HEAD? (0,7)

   The KAYPRO only has heads 0 through 3. Numbers
   greater than 3 will give a long string of error
   messages.

The last prompt is:

FIRST CYLINDER, LAST CYLINDER (0, 305)

All 305 cylinders (tracks) are valid. This
entry sets the inclusive range of cylinders to
be tested.

During the testing phase, the screen is updated with
a readout of the current drive, cylinder, and head
numbers. Error codes are placed inside parentheses
to the right of the readout.

Press ESCape to halt the readout for viewing of
the error codes.

Press any key to continue.

6. At the end of the testing phase, you are asked
   if you wish to make another testing pass.

   Pressing Y (for yes) returns you to the initial
   series of prompts.

   An N ends the programs and warm boots the
   system.

ERROR CODES

During the testing process, all errors appear to the
right of the screen update and inside parentheses.

ABC Aborted Command. For some reason the
     controller was unable to complete the test on
     this area.

BBD Bad Block Detect. An attempt was made to
     access a sector with a BAD BLOCK marker in it.
     These markers are only generated by the
     formatting program. THis is a SERIOUS ERROR.

COR   Correctable error. An error was detected in the data field, but the controller was able to PHYSICALLY CORRECT it. This is an acceptable error.

IDC   CRC error in ID Field. The sector was found, but the ID field contained an error and couldn't be trusted.

NID   ID not found. The sector could not be found at all.

TRO   Track Zero. Track zero not asserted when expected.

UND   Undefined Error. Similar to ???. Very serious; contact dealer.

UNC   Uncorrectable Error. The controller found an error and was not able to correct it.

WFT   Write Fault. A fault condition occurred during a write attempt, and the write was aborted.

???   Error detected, but no flag set by controller. This error is theoretically impossible. If you get this error, DO NOT USE THE COMPUTER any further. Contact your dealer.

Other Errors. Look for errors that are not in the logical range of possibility, such as:

* Sector numbers greater than 16
* Cylinder numbers greater than 305
* Head numbers greater than 3
* Incorrect disk numbers
* Any numbers not in the range you have specified

These errors generally indicate faults in other areas of the system, such as memory or the hard disk controller. Notify your dealer.

It is normal to have a reasonable number of errors.
If there are not a large number of them and none of
them are the ones noted as serious, the system is
OK.

Should you get a sudden increase in the number of
errors or a large quantity of one type (except COR),
contact your dealer. Be prepared to tell the dealer
what error codes are being found and the approximate
number of times they are being found.

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KAYPRO SERIAL PRINTER SERIAL PRINTER PORT RS-232C

Note that the serial printer port on the Kaypro 10 is
hard wired as DCE, Data Communications Equipment.
All other serial ports in the KAYPRO equipment line,
including the serial modem port on the KAYPRO 10, are
wired as DTE, Data Terminal Equipment.

Pin assignments for the SERIAL PRINTER PORT (DCE)

Pin 1 - Chassis ground
Pin 2 - Transmit Data - to computer
Pin 3 - Receive Data - from computer
Pin 7 - Signal ground
Pin 20 - Data Terminal Ready (used as printer busy)

Pin assignments for the SERIAL MODEM PORT (DTE)

Pin 1 - Chassis Ground
Pin 2 - Transmit Data - from computer
Pin 3 - Receive Data - to computer
Pin 4 - Request to Send
Pin 5 - Clear to Send
Pin 6 - Data Set Ready
Pin 7 - Signal Ground
Pin 8 - Data Carrier Detect
Pin 20 - Data Terminal Ready