

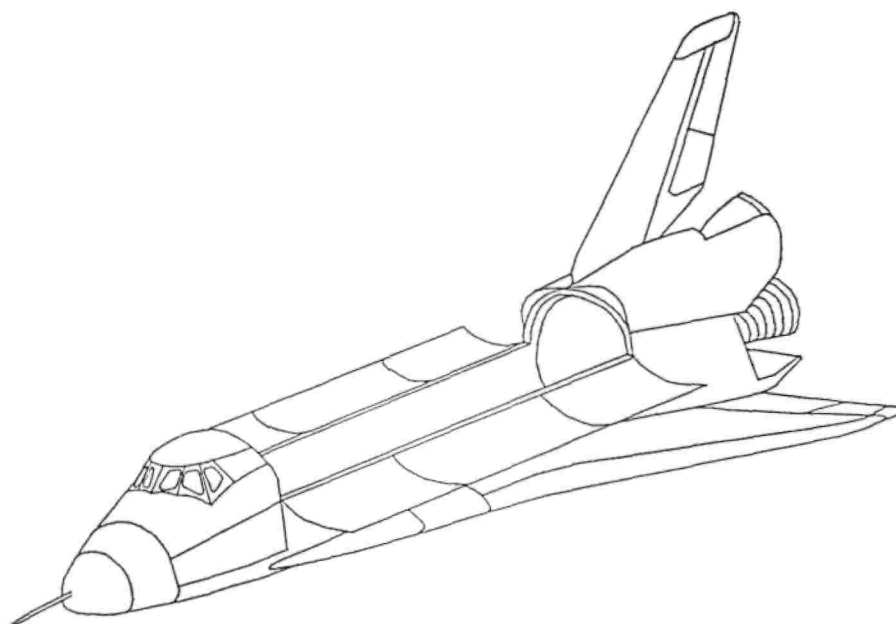
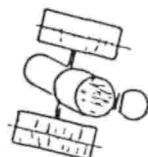
Saving Our CLASSIC Heath 8-Bit Machines!

SERVO JOURNAL

Volume IV, Number 9

\$2.50 a copy, \$17.50 a year

April, 1990



DRAWN BY THE HEATH IR-5208 X-Y PLOTTER

SEBHC JOURNAL

Volume IV, Number 9, Page 2

The Readers' MAILBOX

Dear Mr Geisler,

Thank you very much for publishing my letter to Pat Swayne [asking] for help in installing Magnolia's RAM-disc software [to run] under Heath's CP/M. Subsequent to the appearance of my letter in the SEBHC JOURNAL, a fellow subscriber--Pete Roberson--wrote me and told me how to perform the installation correctly. Needless to say, I was immensely elated to see a RAM disc in operation for first time, with such speed and without any noise.

In closing, I would like to express my gratitude to Pete Roberson, Pat Swayne, Kirk Thompson, and the SEBHC JOURNAL.

JULIAN LOUI, 8 Summer Lane, Framingham, MA 01701

[Julian, we're delighted to hear that you finally solved your problem! If you ever find time, please write up the details of how-2 install a RAM disc as you did. Send it in and we'll publish it for the edification and benefit of other SEBHC JOURNAL subscribers--you WON'T be sorry! And we're happy to help any other SEBHC JOURNAL subscriber out if it is within our power. Remember, relief is only a 25-cent stamp away.... -- ed]

Dear Len,

My membership expired! It seems the extra numbers on the mailing label were a distraction. Coming up with a good d-Base system for a mailing list must be about as easy as writing a good dBase manual. [We use QUERY!2. -- ed]

One thing which might be good for the JOURNAL would be a "family history" section where members could describe their first computer experience.

I remember how, in July, 1981, I walked home with my 289, complete with 48k, one hard-sectored drive, an Epson MX printer and Magic Wand, all of which left me \$4000 poorer. [No wonder why you WALKED home! -- ed] With all that fascinating hardware and software, no wonder I paid such scant attention to that mass of paper which connoisseurs [nowadays] refer to as "documentation".

I saved it all, and I'm still staggered by the sheer undindexed bulk of this stuff which seemed to have nothing to do with anything that I regularly did on my computer. People may today make jokes about the misuse of the phrase "user-friendly", but how easily we forget the Bad Old Days when the stuff in the 3-ring binders was downright user-hostile!

Now the tables are turned. The newfangled hardware requires complicated software, and the system developers can't keep up. OS/2 is so bloated that possible customers are rejecting it, deciding to stay with their existing functional and simple equipment. This sounds like an argument [which] 8-bit users have been making for quite a while: "Keep It Simple, Stupid". [Right on! -- ed]

My 289 peaks out with only 64k, so this becomes a ceiling on bells and whistles. The limitations of our equipment serves as a guarantee against the complexity and turmoil which peesee and MacIntosh users regularly face.

Looking back, the only thing I'd really like would be to have a MacWrite [style] program for the 289 with nice fonts and some graphics. The Commodore 64 was able to do this with Geowrite and the Apple][e was able to do it with Multiscribe. It [would be] nice to be able to stick...pictures [into text] whenever I want. I admit that I'm writing this letter with a peesee laptop, using the \$50 Children's Publishing Center Program. [Note: Steve's letter is in an extra-bold font typeface -- ed]

[Despite this] my 8-bit computers remain active. My three hard-sectored '89s are being used in a Cambridge Catholic school. I can't help wondering if there is a [single] school teacher in the entire country who's using a 289 in the classroom or laboratory--I suspect there's no one else.

So far, the kids have gotten along reasonably well with the '89s, although they have begun to grouse about the graphics. So we'll make the best of both worlds: print out graphics using the ibm and then paste them into the '89 printouts. My word processor is TXIPRO CP/M and for now I am printing with Type and Control-P, but we may get fancier later on. This year, grades 2 through 8 are using the Zeniths, but there is insufficient graphic appeal for kids in grades one and below.

One last question for your crystal ball: I note the increasing prices being paid for impressionist[ic] art and classic cars. How many more years do you think will pass before our classic 8-bit clunkers will be worth a million bucks?

STEPHN H KAISER phd, Computer Teacher, 191 Hamilton Street, Cambridge, MA 02139

[Hey, Steve! Your's is the kind of letter we like to receive and print! About "classic clunkers" values increasing, I'm thinking a near megabuck within the next five years. But then, I'm known to be a Real Pessimist (that is, I expect the worst and let the best come as a Pleasant Surprise). And don't sell our 8-bit machines short! They're limited only by the owner's imagination *and* scarcity of good software. As for screen graphics, yes, the '19/89 graphics set is a bit crude. But look at the SEBHC JOURNAL's graphics. We use Skycastle Computer Products' Calligraphy-II Graphics Text Formatter to print our front page and internal headers, and the entire last two pages! Not only does Calligraphy-II have a Whole Bunch of Neat Fonts and Picture files, it also lets you generate your own fonts or pictures. (Example: our little computer pictured on the front page of last month's issue.) Any image or character you can write into a 'PIC.NS3 file may also be included with text (hence the name "Graphics Text Formatter"). Unfortunately, this compiled (unpatchable) program was written for the early 9-pin, dot-matrix printers, so it doesn't do as well on our 24-pin Epson and NEC printers as we'd like it to without lots of text pfile pfudging! WE still think our "just an old 8-bit clunker" system is Pretty Neat! It does most everything we can dream up. You should

More "MAILBOX" & "Other Stuff"

contact Mike out at Skycastle Computer Products and see what he has which you can use. The latest Calligraphy-II font is named "Vines", and comes with a neat demonstration file. Although I haven't had much luck running it on a 24-pin printer it runs just dandy on the MX-80. Skycastle's address is P.O. Box 1412 San Carlos, CA 94707. Phone: 415-254-3931, 7:00pm to 10:00 pm, Pacific Coast Time. You could be very surprised by what they have to offer! (And do tell Mike that Lenny sent you.) And, yes, I think your suggestion that our subscribers should write short essays on "my first real (H/Z) computer" is A Really Nifty Idea! I'm sure there are some pretty good ones just itching to be told.... So we're waiting, ready to award our usual one-year subscription (or extension to an existing subscription) to the author of any text which we have accepted and printed. -- ed]

=====

MUDDLING THRU WITH OUR MADDENING MODEM....

We've been seriously trying to get the H120 and modem on-line but with very little success! The modem software which came with the machine (Heath's CPS for Z-DOS) appears to be alive and well, but it refuses to talk to our Weltec model 1202 modem! We've run CONFIGUR.EXE and told it that J2's the serial modem port and so on; have configured CPS for that port, word length, and baud rate, but it just ain't a-wurkin!

The Weltec modem runs just fine on our H8 and Super H89 when plugged into the DTR jack--same place our Volksmodem VM-12 happily uses). And both modems are "Hayes compatible", so they work with whatever modem software we use on them (HUG's HDOS HTERM, CP/M TERM, both HDOS and CP/M MAPLE, even Zenith's venerable CP/M CPS)! We didn't try the VM-12 with the H120 as we don't want to break the modem! Guess that Something Terribly Nasty must be wrong with the H120 (maybe its' operator?!). (Wonder if Paul Herman or any body else with H/Z120 know-how has some concrete advice for us?!)

BACK TO M-BASICS

Meanwhile, we've been working on that MBASIC BBS program and do expect to have it cleaned up, ready to use Real Soon Now. (We've had to delete a ton of REMs and other inappropriate stuff from the listing because it's an Awfully Big Program--over 470 lines.) If we can ever get the modem and driver to properly co-exist, we'll proceed with our original plan to put the bbs online weekends from 9pm Fridays to 7am Mondays for a few weeks so that everyone can try it....

TRYING TO SET UP A TOLL-FREE BBS LINE (Or, "Have You Ever Seen A Dream Walking?")

Paralleling the above troubles we're having, we've been in touch with MCI and SPRINT (and sort of with AT&T) about the feasibility of an 800-type number for our subscribers to use in contacting the bbs. When and if AT&T ever deigns to send us their 800-number rate card (which the "other" two services most graciously DID do), we'll print all the facts we get in a future JOURNAL edition. We need as much complete data as we can get so as to see how much the 800-number idea may cost, and how many JOURNAL subscribers will be willing to pay a flat periodic rate to access and use the bulletin board....

Now remember, we expect every one of you Classy Classic Computer Afficianados (and 'nadas--can't be sexists!) to give us your thoughts on how we all shall (or shan't) benefit from having Our Very Own Private SEBHC JOURNAL Bulletin Board Service. Y'all write now, y'hear?!

=====

REMark's Remarks

REMark has a New Columnist! Our good friend, Henry Fale of Quikdata, Inc., has several pages of Really Good Text in REMark's April, 1990 edition! Henry's story includes a lot of very important historical facts on how Zenith Electronics Corporation divested itself of Heath, Veritech, and ZDS.

We strongly advise all our JOURNAL subscribers to first read Henry's story, and then write to both REMark AND Henry. Show REMark that we eight-bit users still believe the "little guy" means more than just another book-keeper's ledger entry!

SUPPORT OUR FRIENDLY VENDORS!

Don't forget, Henry needs your support as much as you need his 8-bit support. Contact him for his latest catalogue--he's still got piles of 8-bit parts and software at curiously reasonable prices. Address: QWIKDATA COMPUTER SERVICES, Inc., 2618 Penn Circle, Sheboygan, WI 53081; phone 414-452-4172. Or use Henry's QBBS at 414-452-5345, 300 baud, on up. And do tell him where you saw it (in the SEBHC JOURNAL, where else?!). Also, why not subscribe to his newsletter, "H-SCOOP" which brings you lots of news and information, including want ads submitted by other users wanting to sell, barter, or buy all kinds of neat 8-bit (and other) equipment....

=====

SEBHC JOURNAL

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NO MORE CP/M CONFUSION!

A SPECIAL BONUS FOR OUR LOYAL SUBSCRIBERS!

(Remove and post nearby your trusty 8-bit machine.)

CP/M HELP

CP/M is in control when the "A>" prompt appears. The letter "A" designates the current disc drive, which can be A thru P. You can then type a command. Commands consist of a keyword, an optional command tail, and the RETURN key (usually shown as <cr>). The command specifies some program you want to run. The command tail specifies filenames or other information the command may need. In the following examples commands are assumed to be followed by <cr>.

CP/M FILENAMES

Each file on a disc has a unique filename. Filenames have three parts: drive specification, primary filename, and filetype.

d: (disc drive name, letter A thru P plus colon (:))
primary filename (1-8 alphanumeric characters)
.typ (filetype plus period (.) plus 0 thru 3 alphanumeric characters)

Where you see "filename" in the following text, it can be replaced by:

d:	for any files on the D: disc drive
file	for FILE on the current disc drive
d:file	for FILE on the D: drive
file.typ	for FILE.TYP on the current drive
d:file.typ	for FILE.TYP on the D: drive

A "?" matches any letter in the same position, while a "*" matches any character at that position and all other characters remaining in the filename or filetype.

FILE?.TXT	any 5-char. filename starting with FILE, ending in .TXT
FILE5.*	any file named FILE5 of all filetypes
F*.TXT	any .TXT file whose filename begins with F
.	any filename at all; matches everything

DIR - Request a directory of files on a disc (a built-in command)

DIR filename	check for a specific file on current disc
DIR *.TXT	directory of any files with a .TXT filetype extension
DIR	show current disc directory
DIR B:	directory of all files on B: disc

ERA - Erase files from a disc (built-in command)

ERA filename	erase filename from the current disc
ERA B:WORK.TXT	erase WORK.BAS from the B: disc

[More]

No More CP/M Confusion!

-- Continued --

ERA C:*.BAK	erase all files from the C: disc with a .BAK filetype
ERA ????.COM	erase all 4-letter .COM files
ERA *.*	erase all files on current disc (use with caution!)

Other builtin commands:

REN new=old	rename old filename to new filename
SAVE n filename	save "n" 256-byte blocks of memory as filename
TYPE filename	type filename (display it on screen)
USER n	set user number to n (0 thru 15)
control-C (^C)	reset discs to R/W ("warm boot")
control-P (^P)	print on/off; send all further output to the printer

The PIP Utility

PIP Commands:

PIP destination=source1[option],source2[option]
 Copies and combines files between discs and I/O devices. Source and destination can be any disc drive (A: thru P:), or console keyboard (CON:), or printer (LST:).

PIP A:=B:filename	copy filename from B: disc to A: disc
PIP CON:=LETTER.TXT	copy LETTER.TXT to console
PIP A:NEW=B:OLD	copy OLD from B: to A: and rename it NEW
PIP B:=*.TXT	copy all .TXT files to the B: disc
PIP LETTER=HEAD,BODY	combine files HEAD and BODY into LETTER
PIP B:=PROGRAM.COM[V]	copy and verify the file PROGRAM.COM
PIP LST:=CON:	connects CON: to LST device; ctrl-Z to exit (uses printer like a typewriter)
PIP LST:=LETTER[T8P]	copy LETTER to the printer, expanding tabs into 8 spaces, with a new page every 60 lines

PIP Options:

Dn	Delete characters past column n
E	Echo transfer to console
F	remove Form-feeds (page ejects)
Gn	Get from user n
H	Hex data transfer
I	Ignore :00 in hex file
L	convert to Lower case
N	add line Numbers to each line
O	Object file transfer; ignore control Zs (^Z)

[More]

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No More CP/M Confusion!

-> Continued <-

PIP Commands continued

Pn	start new Page every n lines (default is 60)
Qs^Z	Quit copying from source at string s
R	Read SYStem files
Ss^Z	Start copying when string s is found
U	convert to Upper case
V	Verify that data was written correctly
W	Write over Read-Only files
Z	Zero parity bit (bit 7)

The STAT Utility:

STAT filename \$option - presents statistics for disc drives, files, and I/O devices. STAT also re-assigns file attributes.

STAT	list free space and R/W status of default disc
STAT B:	free space and R/W status of specified disc
STAT FILE.TXT	size of file MYSIZE.TXT
STAT *.TXT	alphabetized list and size of all .TXT files
STAT *.COM \$R/O	set all .COM files to read-only (other attributes are \$R/W read-write, \$SYS hides files, \$DIR shows)
STAT DSK:	show statistics of all disc drives
STAT USR:	show all user numbers with active files
STAT DEV:	show current I/O mapping
STAT VAL:	show possible I/O devices and mappings

ASM.COM - CP/M's 8080 assembler utility.

ASM filename.SHP	Assembles filename.ASM to produce filename.-HEX or filename.PRN or both. "SHP" indicates the drive to use for Source (.ASM), Hex (.HEX), and Printout (.PRN) files.
ASM TEST	assemble TEST.ASM to produce TEST.HEX and TEST.PRN
ASM TEST.ABC	assemble .ASM file on A:, .HEX to B:, and .PRN to C:
ASM TEST.AZA	assemble A:TEST.ASM, produce A:TEST.PRN, and no .HEX file

LOAD.COM

LOAD filename	Reads filename.HEX and produces an executable binary file filename.COM. (use after ASM).
---------------	--

DDT.COM - CP/M's debugging utility

DDT filename.ext	Loads designated file into memory, and provides commands to examine and change its' content. When finished, exit with control-C and save the file with the SAVE (nn filename.-ext) command. (Example: SAVE 52 NEW.COM)
------------------	--

DDT commands:

-Aaddr	enter Assembly language statements line-by-line
-D	Display memory in hex and ASCII

[More]

No More CP/M Confusion!

=> Continued <=

DDT Commands continued

-Fadr1,adr2,bb
Fill memory from adr1 to adr2 with byte bb

-Gaddr,b1,b2
Go to program at addr, optional breakpoints b1, b2

-Ifilename
Input filename into fcb (for Read command)

-Laddr1,addr2
List memory from addr1 to addr2 in assembly language

-Madr1,adr2,adr3
Move memory block from adr1-adr2 to adr3

-Raddr
Read filename set by Input, offset by addr

-Saddr
Set and examine memory in hex

-Tn
Trace n commands

-Un
Untrace n commands (trace w/o display)

-Xr
eXamine CPU register (omit r for all)

SUBMIT.COM CP/M utility

SUBMIT Automatically executes a series of CP/M commands which are listed in an (fname).SUB file. This .SUB file must be on the boot disc. Prepare the file with a text editor with commands just as you would type them at the A> prompt. You can substitute \$1, \$2, etc., for filenames to be filled in by SUBMIT. For example:

ASSEMBLE.SUB contains:
ASM \$1
LOAD \$1

Typing SUBMIT ASSEMBLE PROGRAM causes SUBMIT to read and execute the commands in ASSEMBLE.SUB, substituting PROGRAM for each \$1 in the file.

Note: If you have replaced SUBMIT.COM and XSUB.COM with the new EX.COM and COPY.COM utilities from the SEBHC JOURNAL's CP/M PROGRAMMER'S HELPER disc, you can still use \$1, \$2, etc., as above. You can also write a list of commands with ED.COM or a word processor, putting one command on a line for often-used procedures. Example:

COPY A:BIOS.SUB TO B:<cr>
COPY A:COPY.COM TO B:<cr>
COPY A:EX.COM TO B:<cr>
COPY A:LIST.COM TO B:<cr>
COPY A:PIP.COM TO B:<cr>
COPY A:STAT.COM TO B:<cr>

Save this as dn:DOIT.SUB and exit. Whenever you enter the command string EX filename.SUB <cr>, the file executes.

MAKING AN 80-track HARD-SECTOR BOOTABLE DISC:

If you have two drives, say one 40-track (A:) and an 80-track in (B:) instead of the standard 40-track single-sided hard-sector disc in your H/Z-89 computer and occasionally want to boot from the 80-track drive, here's how to do it. FORMAT an 80-track

[More]

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CP/M Confusion END & An MBASIC Extra!

double-sided disc. Now, before you do anything else, run SYSGEN and move the operating system from A: onto the 80-track disc in B:. And answer SYSGEN'S "COPY BIOS.SYS (Y/N)" with a Y. This ensures BIOS.SYS is the first file which CP/M reads upon being told to B(oot)1<cr>. This is NOT CLEARLY explained in your CP/M "instruction manual". If you're running CP/M and mix 40 and 80-track soft-sector (H-37) drives you've probably found that CP/M can read and boot either type disc in the 80-track drive. Even one-sided discs in two-sided drives!

But you CANNOT write to a 40-track-formatted disc in an 80-track drive...never, not EVER!

Likewise, you CANNOT read from, or write to an 80-track-formatted disc in a 40-track drive!

Try to remember these absurdly simple facts the next time you think you're having disc drive problems and are ready to scream for help....

=====

A MANUSCRIPT PAGE-NUMBERING CP/M MBASIC UTILITY

```
5 REM PRINTIT.BAS      FOR MBASIC V5.2
  A Page-Numbering Utility for Manuscripts which
  sequentially numbers all pages and prints the
  author's name on each. Prints a blank line
  for every one starting with a period (.).
  Also makes a title page if desired. Self-
  prompting. For use with SG-10 printer but
  can be adapted for Epson-type printers (see
  lines 80 - 140)

  By Ray Dotson, Goldsboro, NC
10 C$=CHR$(27):PRINT C$"z":NN$="Your Name Here":
  FOR I=1 TO 10:NEXT:ON ERROR GOTO 250
20 DEF FNN$(N$)="<"+C$+"j"+N$+">"+C$+"k"
30 PRINT C$"E"C$Y*(<File Name? "C$J";:LINE INPUT FI$
  IF FI$="" THEN CLOSE:PRINT C$"E":END
40 PRINT:PRINT C$"x4Do you want a Title Page? "FNN$("Y");:
  A$=INPUT$(1):PRINT C$"y4A$:IF INSTR("Nn",A$) THEN TP=0
  ELSE TP=1
50 PRINT "Heading to be Printed on each page: ";
  LINE INPUT TITLE$:L=LEN(TITLE$)/2
60 PRINT C$"x4Left Margin "FNN$("1");:LINE INPUT T$
  TB=VAL(T$):IF TB=0 THEN TB=1
70 PRINT "Top Margin "FNN$("5");:LINE INPUT TP$:TT=VAL(TP$):
  IF TT=0 THEN TT=5
80 PRINT "Accented Print on SG-10? "FNN$("N");:A$=INPUT$(1)
  PRINT A$:IF INSTR("Yy",A$) THEN LPRINT C$"E"CHR$(13);
90 T=60-TT:PRINT "Double Space? "FNN$("N");
  A$=INPUT$(1):PRINT A$:IF INSTR("Yy",A$) THEN DS=1
100 PRINT "Print your name on each Page? "FNN$("Y");:
  A$=INPUT$(1):PRINT A$C$"y4":IF INSTR("Nn",A$) THEN
  NAM$="" ELSE NAM$=NN$
110 IF TP THEN FOR U=1 TO 30:LPRINT:NEXT:LPRINT TAB((TB+40)-L)
  TITLE$:LPRINT:LPRINT TAB((TB+40)-9)"by "NN$CHR$(12)
  CHR$(13);
120 OPEN "I",1,FI$:IF RESUM THEN 140
130 LPRINT TAB(TB+12)NAM$:TAB((TB+47)-L)TITLE$:TAB(TB+67)
  "Page 1":LPRINT:LPRINT:P=2
140 IF EOF(1) THEN CLOSE:GOTO 270
150 LINE INPUT #1,DAT$
160 IF LEFT$(DAT$,1)=". " THEN LPRINT:N=N+1:GOTO 140
170 IF SKIP AND DAT$="" THEN 140
180 IF LEN(DAT$)>2 THEN SKIP=1
190 J=INSTR(DAT$,CHR$(12)):IF J THEN DAT$=LEFT$(DAT$,J-1)+MID$
  (DAT$,J+1)
200 N=N+1:IF N>=T THEN LPRINT CHR$(12)CHR$(13);:N=0
  LPRINT TAB(12+TB)NAM$:TAB((TB+47)-L)TITLE$:TAB(67+TB)
  "Page"P:P=P+1:FOR Y=1 TO TT:LPRINT:NEXT:T=58-TT
210 LPRINT TAB(TB)DAT$
220 IF DS THEN LPRINT:N=N+1
230 IF INKEY$="" THEN END
240 GOTO 140
250 IF ERL=120 THEN PRINT:PRINT C$"Y&="CHR$(34)FI$CHR$(34)
  " not found!":RESUME 30
260 PRINT C$"E":PRINT TAB(38)"ERROR!":RESUME 30
270 IF RIGHT$(DAT$,1)<>CHR$(12) THEN IF VAL(RIGHT$(FI$,1))
  THEN RESUM=1:FI$=LEFT$(FI$,LEN(FI$)-1)+MID$
  (STR$(VAL(RIGHT$(FI$,1))+1),2):GOTO 120
280 PRINT C$"E":LPRINT CHR$(12)CHR$(13);:RUN
```

*** We have just learned that Kirk L Thompson, Publisher and Editor of The Staunch 8/89er, has changed his mailing address FROM: #6 West Branch Mobile Home Village, West Branch, IA TO: Post Office Box 548, West Branch, IA 52358.

Kirk says he was forced to make this change because he has been victimised by stamp thefts from mail in his curbside box also that several letters and packages have been torn open or vandalised. Those are Really Nice Neighbors you have, Kirk!

Classified Ads

***G*I*A*N*T H/Z EIGHT-BIT COMPUTER, PARTS, AND SOFTWARE *S*A*L*E*!**

I'm discontinuing most of my H/Z89 line and am making the below-listed items available to JOURNAL subscribers. Please note that I'd rather sell everything in a single lot, but will sell individual items if forced to!

HARDWARE

1. One Z89 with hard-sector board & one internal drive, expanded (64k) memory, Z37 (soft-sector) controller installed, plus an external Z77 cabinet w/two 96 double-sided drives. Note: This machine will copy hard-sector to soft-sector (or vice-versa) and do numerous other things.
2. One Z89 with standard hard-sector controller and single-sided 48-tpi drive, 32k RAM installed.
3. One Z89 mockup test kit, p/n HE 204-2951, original Heath Service aid for repairing H/Z88/89/90 machines.
4. One set Z89 power supply regulator IC radiators (heat sinks).
5. Complete Z89 power supply board, p/n 071279 ready to drop in place.
6. Two Z89 12 volt, standard type 7812 regulator ICs (U101 & U102)
7. Two Z89 12 volt, 5 amp (type 78H12) regulator ICs, p/n 442-650.
8. Z89 Cooling fan, model 126LJ.
9. One Z89 Cassette I/O board.
10. One brand-new-in-factory-box 96tpi double-sided drive (list price: \$434).
11. One brand new Z89 CPU board.
12. Two used 48tpi drives.

SOFTWARE

1. CP/M Inventory Management HRS-837-5 (595-2634-01) new, never used.
2. CP/M BASIC Compiler HM5-834-4 (597-2650) new, never used.
3. Operating system CP/M-80 Ver. 2.2.04 (last version Heath sold).
4. WordStar V3.3 and Mailmerge (597-3363)
5. Microsoft BASIC-80 HMS-837-1 new, never used.
6. CP/M General Ledger HRS-837-1 new, never used.
7. HDOS 2.0 Manuals
8. H89-17 Software Reference Manuals 59 5-2334-01
9. Numerous service manuals for Z89, circuit diagrams, and Zenith Service Center service Bulletins/Service Tips for Z89.

If someone buys the entire lot of hardware and software listed above, I'll throw in one shipping-damaged Z19 terminal (the CRT mounting posts are broken, other problems unknown), an excellent source for replacement parts, for just the cost of shipping it.

Please note that the original cost of these items totalled well over \$5000! Obviously they're not worth that much today, but I'm willing to accept your most reasonable offer for the entire lot. If you want an exact list, send a stamped, self-addressed envelope (SASE) to me at the address below:

HARRY BAILEY c/o B & H Video Service, P O Box 6487, Panama City, FL
32404

Tell Harry you read all about it in the SEBHC JOURNAL!

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The JOURNAL'S CATALOGUE Page

+++++
Discontinued ("Vintage") H/Z Eight-bit CP/M software in Original Factory-Sealed Packages. Warranties WILL BE HONORED by Heath. All "Demo" software runs EXACTLY AS WARRANTIED PACKAGES DO, but updates aren't available (usually won't matter). Continuing Education (EC) packages are complete w/lectures on cassette & final (college-acceptable credits) examination.
+++++

Item	H/Z cat #	Description	Price
SJ-1	EC-1101	Programming in FORTRAN	* 39.95
SJ-2	173-57-1	MICROSOFT FORTRAN v3.4 (demo)	* 39.95
SJ-3	173-66-1	Programming in COBOL	* 29.95
SJ-4	173-58-1	COBOL-80 v4.0 Demo w/documents	* 29.95
SJ-5	EC-1110	Programming in Microsoft BASIC	* 29.95
SJ-6	HMS 837-1	CP/M MBASIC-80 softsector (wty)	* 39.95
SJ-7	HMS 817-1	CP/M MBASIC-80, hardsector "	* 39.95
SJ-8	173-56-1	MBASIC-80 (CP/M) demo w/manual	* 29.95
SJ-12	173-60-1	Softstuff CPS modem pgm (demo)	8.96
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