

Preserving Our CLASSIC Heath 8-Bit Machines!

The SEETHO JOURNAL

The Society of Eight Bit Heath Computerists' Official Monthly Newsletter

Volume VII, Number 3

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See Last Page for Subscription & Order Blank

==> NOTICE <==

We Are Presently Experiencing "Technical Difficulties" in Getting This Publication To You Somewhen Within In A Given Month. Stand By. . . We Expect The Problem To Be Corrected "Real Soon Now!" Thanks. . . .

Please Note: We're Gradually Updating Our HUG Software Price List. See The Partially-Revised List At Copy Rear. . .

That Old HUG Spirit Ain't Dead Yet!

CORRESPONDENCE WE'VE RECENTLY RECEIVED...

Dear Friends:

All good things seem to come to an end. As you know, the old Heath User's Group was eliminated. Recently, the former employees of HUG met to discuss the possibility of continuing the tradition of providing independent support to a well-established user community. We have contacted Heath Company with a request for permission to duplicate and distribute the entire software library. Additionally, the same personal [sic] will be available to answer your questions and phone calls.

In the past our user group was limited to supporting corporate products and peripherals only. We [now] intend to expand current systems to support a wide variety of computers, software, and other merchandise while keeping our basic roots to the products that made your group strong. Since we will be independent, we will be able to organise mass product purchases, passing these savings on to you. In addition to our planned newsletter, an electronic bulletin board service with over 3.5 gigabytes of software is already available for your convenience. TECH, or Technical Exchange for Computer Hardware and Software, offers a variety of services including access to both new and used computer products, messaging, [and] online conferencing, to mention only a few.

Pat Swayne will be the editor of our new publication. This means quality articles and information important to you as a computer user. Pat will again be accepting articles for publication with significant contribution to our subscribers. We are in the process of organising our communications networks and hope you will join in the fun! All of us are primarily concerned with providing you the best possible support. Your comments and suggestions will be deeply appreciated.

Please be sure to review the special offer [below]. Subscribe today!

Sincerely,

BOB ELLERTON	ECI Main Phone:	1-616-849-0491
JIM BUSZKIEWICZ	TECH Bulletin Board	1-219-654-3210
PAT SWAYNE		

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[There it is, warts and all! (You guys Really Need A Good English-language Editor!)] But frankly I'm delighted to find that there's life after H/Z's "conversion" by Groupe Bull. Heath Company started something that became far greater than crass commercialisation when they established the original Heath User's Group. I can remember "way back when" the MG Sports Car Club was brought into being by Nuffield Motors (England). Ostensibly, the purpose was to support MG sports car owners by providing much the same type of help which HUG supplied to Heath's computer customers. Actually, Nuffield wanted MG motorists to sell cars through general-public visibly enthusiastic participation in periodically-scheduled gymkanas, rallies, road races, and concours d'elegance. To this end, Nuffield gave participating car clubs many wonderful trophies to be awarded to winning car club members at such events. Rather like the support and encouragement given us HUGgies during those wonderful yearly HUGCONs. I'm sure that MG owners were just as devastated as we HUGgies were when their company-sponsored club was blasted away by the sale of Nuffield Motors. MG sports cars were so very neat, almost as neat as our far-less no-oil-fumes-pollution 8-bit computers.... We shall have more to tell you about Electronic Concepts, Inc. (ECI), just as soon as we contact them via our (t)rusty modem. Meanwhile, good luck, you guys! -- ed]

===== A BRIEF PROGRESS REPORT... A BRIEF PROGRESS REPORT... A B =====

We have roughly 150 HUG software discs which Pat Swayne donated to us, most of which are in hard sector form. At the moment, I've been duplicating these files onto soft-sector discs which I am sending to Kirk at the Staunch 8/89er. (He doesn't have a working H17 hard-sector setup, so we're going at it this way....) I'm also cataloging the original discs while copying them to soft-sector form and now have over 30 discs' worth of software copies which I'm sending to Kirk today.

We do have a problem with the original discs: most of them have quite cryptic labels, usually without part numbers. So I must mount and read the directory of every one to make sure of what's on them. Even at 4MC/s clock speed, Heather and I can't do more than about ten discs an hour, sometimes even fewer whenever my missus has other "more important" work for me to do. Also, Hachibanko-san (the H8) has developed a very flakey H17 SY0: drive (it's 40trk) so that I'm forced to do most disc-dupe work on Heather, further slowing down JOURNAL production!

I hope to find a local SEBHCer who'll willingly lend me a hand with those discs. Then maybe I can expect to complete the job and get out the next 3 JOURNALS before year's end!

Keep tuned for future progress reports....

=====

More READER'S MAILBOX & HUG Disc News

Dear Lenny,

Almost overlooked renewal time. Just caught the red mark on the back of the current issue. Enclosed is a cheque for two more years and I trust you will be publishing that long.

I still have the same bunch of gear as when I last wrote you, two Z90s, one H89A, and one Ampro Little Board that I bought from Art Carlson, former editor of Computer Journal. All are working except one Z90. The picture tube faded out on it and even though I know where the problem is, have been too lazy to take everything out to get to the bad connection. All of the Zenith computers have four floppy drives, compliments of Rick Swenton who sent me a revised BIOS to accommodate the four drives. On the Ampro I still use the Z19 purchased from you.

I also have a Z49 terminal just sitting around doing nothing. It is a dandy for use on digital modes used in amateur radio, but it leaves you without a way to store on disc. [I] would part with some of this equipment if anyone really needs and would use it. Also, I have a never-used CRT for a Z29 if anyone needs it for free.

The SEBHC JOURNAL is enjoyed [here] very much, and [I] hope it continues to be published [for] a long time, although information and articles applying to these 8-bit machines seem to be getting rather scarce.

MARVIN F ROBERTS W0RQY, 4000 SW 28th St., Topeka, KS 66614-2207; 1-913-272-0497

[Ho, Marvin! Thanks for remembering to renew. Don't worry, I'm quite determined to keep on stroking this old keyboard for a long time. After all, since I'll be 100 in 2017, I shall then just consider retiring...but the JOURNAL will continue as long as we have loyal subscribers such as yourself wanting to keep their vintage machines alive and well. (Or until I can't keep the old girl in spare parts, whichever comes first--as the standard automobile warranty says...) By the way, I once saw a Z47 terminal for sale at the UM Property Disposal facility, but couldn't find a keyboard for it. Wonder if the Z49 is a later version of the H/Z29? If it is, that spare CRT just might fit it and would be worth keeping "just in case". I printed your phone number above because there might be someone really hurting for a replacement CRT.... Since you're a radio "ham", how about stroking out a brief article on how you use your computers with that communication medium? I'm sure our other "ham" subscribers would appreciate that, and any hardware modifications you might have developed for your own use. Send the article in and your subscription surely will grow by another (free) year. Meanwhile, Happy Computing! -- ed]

=====
 <div data-bbox="61 921 487 936" data-label="Text">
 Many discs which Pat Swayne donated to SEBHC to sell to

our subscribers have programs which appear to have been in development. I've tried a few and they seem to work ok, but since the discs don't have an "official" HUG part number, I'm hesitant about advertising them for sale. I've listed one below with a brief rundown of the files it contains as an example of what's available. When I get them all cataloged and listed in the JOURNAL you may buy copies of these discs for only three dollars a hard-sector disc (or \$2.75 for a soft-sector disc):

AH.ASM

Autoscribe/HDOS Transfer Utility

BY JON FAULKNER AND PATRICK SWAYNE 29-JAN-81

This routine will transfer a file from HDOS to Autoscribe or Autoscribe to HDOS. It creates a new entry in the Autoscribe directory when you transfer from HDOS to Autoscribe

HDOS TO AUTOSCRIBE SECTION BY PATRICK SWAYNE

AUTOSCRIBE TO HDOS SECTION AND MENU BY JON FAULKNER

Size 40 sectors

Commented assembly-language listing only

XRFEXT.ASM

EXTENSION TO THE HEATH ASSEMBLER

BY PATRICK SWAYNE 24-DEC-80

ASMEXT.ASM

THIS IS AN EXTENSION TO HEATH'S ASSEMBLER VERSION 104.06.00 IT ALLOWS THE USER TO SELECT OUTPUT IN OCTAL OR HEX

Size 7 sectors, commented assembly-language listing only

BASICON.BAS VERSION 1.0-M 10-AUG-80

by J D HILL, 6400 GILA CT., PLANO, TX 75023, (214) 423-0771

--COPYRIGHT (c), 1980, CYBERSOFT--

An MBASIC program which converts MBASIC programs to Heath Basic

Size: 10 sectors

CONBASIC.BAS VERSION 1.0-M 06-JUN-80

by J D HILL, 6400 GILA CT., PLANO, TX 75023, (214) 423-0771

--COPYRIGHT (c), 1980, CYBERSOFT--

Converts Heath BASIC program listing to MBASIC form (A short version of Dr. W Campbell's program in REMark?)

Size: 9 sectors

LOGIC.BAS

A PROGRAM TO DESIGN DIGITAL LOGIC CIRCUITS by R S REICHERT, JUNE, 1980. THIS PROGRAM WILL SIMULATE THE PERFORMANCE OF ANY COMBINATIONAL LOGIC CIRCUIT WHICH USES THE COMMONLY AVAILABLE GATES, AND IS NOT CONFIGURED SO AS TO MAKE THE OUTPUTS OF ANY TWO OR MORE GATES RECURSIVELY DEPENDENT ON EACH OTHER. THE PROGRAM IS A STEADY-STATE SIMULATION ONLY; IT WILL NOT PERFORM A TIME-DOMAIN ANALYSIS. THE PRIMARY FUNCTION IS TO GENERATE TRUTH-TABLES FOR DESIGN CIRCUITS AND PROVIDE THEM IN PRINTED FORM. REFER TO THE USER'S MANUAL FOR LOGIC GATE OPERATIONAL DETAILS. (See associated DATA files listed below:)

Size: 73 sectors

READER'S MAILBOX Is Closed For Now...

DATA FILES, continued from overpage...

DECODER.DAT, 3 sectors; PRIORITY.DAT, 4 sectors; SELECTOR.DAT, 1 sector; XOR.DAT, 1 sector; XORTEST.DAT, 1 sector

PRINT.BAS (PAGE.BAS) VERSION 1.3

AUTHOR: DANNY CHERRY, LITTON DATA SYSTEMS
NEW ORLEANS ENGINEERING CENTER
NEW ORLEANS, LA.

PROGRAM TO PRINT ON THE LINE PRINTER FROM XBASIC
MBASIC VERSION BY PATRICK SWAYNE
Size: 5 sectors

SIM.BAS

A PROGRAM TO CALCULATE AND PRINT OUT SIMULTANEOUS EQUATION
MATRICES.

Author unknown
Size: 6 sectors

POKEDATE.BAS AN MBASIC SUBROUTINE

MAY BE MERGED WITH OTHER PROGRAMS WHICH REQUIRE DATE INFORMATION TO WORK SATISFACTORILY.

AUTHOR: Unknown
Size: 9 sectors

QSE.BAS -- "QUICK SIMPLE EDIT" WRITTEN IN HEATH BASIC
A PROGRAM WHICH ALLOWS ONE TO EDIT AND SAVE ANY COMPATIBLE
DISC FILE (TEXT, ASM, OR BH BASIC)

AUTHOR: Unknown
Size: 9 sectors

RNO.BAS

PARTIALLY CODES A MANUSCRIPT FOR PROCESSING BY RUNOFF
(ALSO INSERTS AN UNDERSCORE BEFORE ALL SPECIAL
CHARACTERS). LEAVES SOME CODING TO BE DONE WITH EDITOR.

%This is an MBASIC program.%
AUTHOR: Unknown
Size: 9 sectors

XRFEAT.ASM -- EXTENSION TO THE HEATH XREF UTILITY
BY PATRICK SWAYNE 24-DEC-80

THIS IS AN EXTENSION TO THE ASSEMBLER'S XREF UTILITY THAT
DETERMINES WHETHER NUMBERS SHOULD BE OUTPUT IN OCTAL OR HEX,
AND MODIFIES XREF IF REQUIRED.

Fully commented.
Size: 6 sectors

HDOSJ*.ACM

A MODIFIED HDOS.ACM FILE TO DEFINE HDOS "SCALL" SYMBOLS.
(One of the missing distribution disc "programming tools"
files.)

Author: JON FALKNER
Size: 19 sectors

==) More in our next issue if readers want it! (==

Dear Len,

It was nice talking with you this evening. I'm glad to
hear the JOURNAL is still going strong. Here's a list of the
Heath stuff I still have and need to find a home for:

H8 computer with Zenith Z80 CPU and 3 MHz mod, H17 and H37
controllers, 4-port serial board, and D6 64k dynamic RAM.
Asking \$100, UPS ground shipping included. Will also sell
these parts from it individually:

Z80 CPU	\$40
H17 controller	15
H37 controller	40
Serial I/O card	25
D6 RAM card	35
Chassis P/S F/P	35

H8 chassis w/gold pin motherboard, fan, power supply, and
front panel, \$40, UPS ground shipping included.

H8 8080 CPU board w/Z80 chip & adapter installed. Works
just like a Z80 board at 2 MHz and is H37 soft-sector con-
troller compatible, \$25.

Heath WH8-64 dynamic memory board, \$35.

Pair of full-height 2-sided 96tpi floppy drives, \$25 each,
\$40 both.

Z120 parts computer, good working CRT, power supply, key-
board, and floppy controller but w/o disc drives. Mother-
board with 192k RAM included (but has intermittent lockup
problem), \$65.

Please contact me at the below address:

GARY S MELANDER, 460 Garrison Place, Virginia Beach, VA 23452
ph: 804-498-9850

[Yo, Gary! Thanks for getting in touch. Somebody surely has
to want that sea-going H8 of yours, it's too good to toss out
with the bath water! We now have two-and-a-half H8s, one is
for parts, the other two are working (one I built, the other
Pat Swayne donated to the JOURNAL). I'm still running my or-
iginal H8 almost daily since Kirk Thompson sent us a Betatest
copy of HDOS 3.02 for me to sweat over. I have to run it on
my H8, it don't work with the D-6 Super89 CPU card--wrong
monitor chip. Here's a thought: if you can't dispose of
your H8, why not get a copy of HDOS 3.02 and run it on your
H8? From my own experience, it seems to be an early version
of MS-DOS (maybe V 0.055) and has paths, tasks, bat(ches) and
other neat stuff. Also has nine USERS (shades of CP/M)! Was
it the precursor to MS-DOS's DIrectory trees? I'm readying
a short writeup on "life with HDOS 3.02", watch for it....And
LOTS A LUCK disposing of your surplus stuff! -- ed]

YOU'VE HEARD OF HDOS VER 3.02?!

A MENU SYSTEM FOR YOUR
HDOS Ver 3.0x SYSTEM DISK

by
Associate Editor Allie C Lingo

I have heard promises for a batch file tutorial under HDOS 3.0 but until now I have not seen anything in print. I also could not seem to remember half of the time to start the clock task when booting up my system disk and when I created a disk, the default time would be stamped on the files.

We have probably heard that HDOS 3.0 supports execution of "batch files". Batch files are text files containing commands which are read by SYSCMD (HDOS-3's System Command Processor). Batch files end in .BAT. The HDOS 3 command processor automatically search for and execute SY0:AUTOEXEC.BAT upon system bootup. But this is in addition to, and AFTER the system runs SY0:PROLOGUE.SYS. PROLOGUE.SYS is another story I shall leave to someone else; presently I'm interested only in developing my own batch-file menu system.

Basically, a batch file is a list (or batch) of commands which the system executes in sequence as if all were entered at the keyboard. Using a batch file, several commands can be executed with a minimum of key strokes.

My attempt at making my system disk menu driven uses an AUTOEXEC.BAT file to prompt me to set the clock, sets the PATH and runs a second file called MENU.BAT. A third batch file, PWRDWN.BAT, is called by MENU.BAT for the purpose of dismounting all the drives in preparation for turning off the system.

There are a few special characters which may be used in HDOS-3 batch files; those which I used are:

\$e = the ESCAPE character	\$_ = the NEW LINE character
\$, = the TAB character	\$s = the SPACE character
\$ep = Reverse Video ON	\$eq = Reverse Video OFF

For other special characters which may be used in HDOS 3 batch files refer to the HDOS 3 documentation which has a more complete list.

The first file I created was the AUTOEXEC.BAT file to remind me to enter the time by automatically starting the clock task (start clock, or st clock). This file text is as follows:

```
rem AUTOEXEC.BAT by A. Lingo 9/13/89
rem
start clock
echo off
echo $eE
PATH SY0:
menu
```

The first two lines are REMARKs and are not executed. The

third line automatically starts the clock task (start may be abbreviated as 'st') and I am prompted to enter the time. I didn't put a line to prompt for the date as the system does this anyway. The next line turns echo-to-screen off so the screen doesn't get cluttered up with lots of stuff. I didn't turn echo off before starting the clock because just in case the clock task couldn't override the echo-off command, or clock task may turn the echo back on. In the fifth line I want to echo to screen \$eE. The \$e from our previous list is the ESCape character; when used with E it clears the screen and homes the cursor; emulates CHR\$(27)+"E" in BASIC. Next we set PATH so the system knows where to look for files we will use. In this case I'm using SY0:. Last but not least, we find menu. This refers to a batch file named MENU.BAT that we want AUTOEXEC.BAT to run.

To recap, my AUTOEXEC file has started the clock, turned off echo-to-screen, cleared the screen, set the path, and finally runs the MENU batch file.

The next file which I shall explain is as follows:

```
rem MENU.BAT by A. Lingo 9/13/89
rem
echo off
:BEGIN
echo $eE
echo $_$_$_$, $s$, $s$epHDOS 3.0 SYSTEM DISK MENU$eq
echo $_$_$_$_$, $s$, $s$ $s$ $s$ $s$PLEASE CHOOSE ONE...
ask $_$_$_$, $epF$eqormat a Disk $epS$eqysgen Formatted Disk
$epP$eqower Down$_$_

if key = 'f' goto FORM
if key = 's' goto SYSG
if key = 'p' run PWRDWN
if not key = 'p' goto BEGIN
:FORM
echo $eE
RUN INIT
goto BEGIN
:SYSG
echo $eE
RUN SYSGEN
goto BEGIN
```

I wrestled with how I wanted the menu to look on screen and decided it was best keep it as simple as possible. I also wanted one that used a minimum of keystrokes and would ask for specific keys pressed and ignore all others. Originally I used one file for the menu and 3 smaller batch files to be called and run singly; one for formatting a disk, the second to make a bootable disk from a formatted one, and lastly to dismount all disks and notify me to remove the discs and power down the system. This worked fine but it really wasn't what I wanted. I finally decided that the menu program only should do the work rather than several small batch files.

HDOS 3.02 Conclusion--For Now

SY1:, SY2:, etc. The version of HDOS 3 I have--the original one--doesn't dismount SY0:. So I included 'D 0:' to dismount SY0: to get ready for power down. The backslash (\) separates the commands. The next line is WAIT 2. This holds the screen for a couple of seconds so I can see that all the drives have been dismounted. This line doesn't have to be in here. It just makes me feel better to see that the drives have been dismounted before the screen is cleared by the next line. Finally the last three lines echo to the screen that all the drives have been dismounted and that I can remove the disks and shut off the power or install a new bootable disk in SY0: and re-boot.

I sincerely hope that this article will spark some interest in HDOS 3 and the use of batch files with it. I would like to hear from others on the subject of batch files. Perhaps those who are much more knowledgeable than I will put in their two cents worth as it were.

Just envision a batch menu system being created for a disk filled with applications programs. On its' boot-up, a menu of all the applications would be written to screen and only one keystroke would cause an application program to run. Upon exiting, the menu would reappear, awaiting your next instruction....

=====

Running HDOS 3.0, Issue 50.07.00
(What A "Learning Experience" This Is!)
by
L E Geisler

Kirk Thompson sent me a humongous three-inch thick loose-leaf book of instructions for HDOS 3.0, together with John Toscano and Dan Jerome's new update disc. Earlier, Assistant Editor Allie Lingo had sent me a bunch of soft-sector discs--a complete distribution set--including a system disc prepared by Robert Musgrave, one of the original HDOS-3 programmers.

Of course, the very first thing I tried was to boot it in my 89A, but that didn't work. HDOS 3.0 expected, but didn't find an earlier version of D-6 Electronics' monitor ROM on my D-6 Super89 CPU board. Ratz! Then I called Kirk and asked if he knew any sneaky ways to get around that restriction, to no avail; I ended up running HDOS 3 on my H8 (sigh).

Time wore onward by about a year'n'arf-plus; I decided it was time I did something about '3. So I dug out all the disc stuff that Kirk and Allie had sent me and went through all which I could boot or read. I found one disc from Allie had a pretty big README.1ST file on it which I thought should be printed in the JOURNAL. Because I do most everything in the JOURNAL under CP/M (I have many utilities for that system) I

tried to convert the file into CP/M with HTOC.ABS running under HDOS 2.0. Forget it! Two can't read three's directory structure!

No way could I make an HTOC file conversion work from CP/M! Tried recording the HDOS 3.02 DOC disc onto an HDOS-2 disc; same problem--"Can't Read Disc Directory"! Bah! Humbug!! Even tried to use HRUN.COM so I could pick up the DOC files, re-format them and make hardcopy but that just made Hachibanko-san spin all her front-panel LEDs counter-clockwise and emit an ear-splitting, continuous BEEEEeeeeppppp...from both the H19 and her internal horns!

Eventually I resorted to subterfuge and TXTPROed one file under HDOS 3, then hard-copied the finished product. Since it takes hours to make two columns under HDOS-run TXTPRO, I printed out one column-width of text over several pages and then hand-cut and pasted (icky-poo!) the result on regularly-headed pages. It looks OK but it was no picnic!

You might like to know that HDOS 3.0xx is very similar in many ways to Z-DOS (MS-DOS 1) with paths and BAItch files, &c. Allie's article above gives you a good back-door peek at how '3 works. It has many good features which HDOS 2.0 lacked, such as a built-in CLS (clear-screen) command, a system REAL TIME clock, tons of H19 screen routines and other neat stuff you'd expect to find only running on an H/Z100. It even has USER areas, similar to CP/M (only seven though). This seems to be a precursor to MS-DOS's multiple directories because you can't access files across USERS; have to change to a different USER area first, similar to "barefoot" MS-DOS.

The distribution discs I received had all the original HDOS-2 stuff on them, from ASM.ABS through EDIT and BH BASIC. But there were more .ACM decks than HDOS 2 came with, and several more device drivers (.DVDs), including a couple for the Epson MX-80 printer. I haven't tried those out yet since my Lindley Systems LP.DVD works peachy-keen under '3 with all our "Epson-compatible" printers here.

I must say that HDOS 3.02 rather confuses me; it has many features I'm accustomed to use with standard HDOS 2 as modified by Jim Texiera's SuperSysMod. But many of HDOS-3's features don't do things the same way as Jim's modifications; many of his single-key-stroke commands have been left as multiple-key-stroke entries. Rather clumsy, I think. But maybe someone who is Real Smart can figure out how to patch those features so they work as neatly and smoothly as what I've become accustom to using....

I did find a few interesting features buried under tons of ASCII on one distribution disc. You can clear the CRT screen with just a period and RETURN (.(cr)) instead of CLS(cr). That's nice. But you must use CTRL-S and CTRL-Q to pause text files so you can read a "page", but SSM-2 lets you SCROLL-SHIFT pages--much better, I think.

Stand by; we'll have more about HDOS 3.02 next month.

VENDOR'S LIST & HARDWARE ARTICLE

==> EIGHT-BIT SOURCES, SERVICES, and VENDOR DIRECTORY (<==

-> Listing last updated 20 September, 1992 (<-

CDR SYSTEMS, Inc., 7171 Ronson Road, San Diego, CA 92111; ph: 619-560-1272, 9a-5p Pacific Time Zone--ask for Herman...
D-6 ELECTRONIC DEVELOPMENTS Co., 700 S Armstrong, Denison, TX 75020; phone 903-465-7805 (Cent Time). Bruce Denton pres
--> Bruce is A * Certified * YOU-BETCHA GOOD GUY! (<--
DISK MOVERS, 8534 McCormick Blvd, Skokie, IL 60076; phone: 708-679-3727 (Central Time). Ask for Miriam; she STILL stocks LOW-PRICED, BULK QUANTITY HARD-SECTOR DISCS!
--> Miriam is a VERY NICE, VERY HELPFUL PERSON! (<--
LINDLEY SYSTEMS, 8139 E Mawson, Mesa, AZ 85207 -- phone: 602-380-9175. Bob & Bill Lindley; REALLY FINE FELLOWS!
MAGNOLIA MICROSYSTEMS, 2818 Thorndyke Avenue West, Seattle, WA 98199; phone 206-285-7266 (Pacific Time). Special memory upgrades and misc op-systems for H/Z89s & 90s.
MICRO COMPUTER REPAIR SERVICE, 2308 Industrial Highway, Ste C Ann Arbor, MI 48104; ph 313-663-3646. FLOPPY DISC DRIVE REPAIRS & SALES. Ask for Mike Morris, "A SUPER GUY!"
MICRONICS TECHNOLOGY, Suite 159, 54 Dalrada Road, Montgomery, AL 36109; phone 205-244-1597 voice, or 205-244-0192 bbs. Darrell Pelan, pres. 8-BIT SUPPORT, H/Z 89 harddrives Catalogue & 8-bit help available. A REALLY GOOD GUY!
New Orleans Data General Services, 7230 Chadbourne Drive, New Orleans, LA 70126; phone 504-241-9388. Ask for Dave, he provides only tech advice for NODGS's H/Z8/89 colour, sound & music-boards. DAVE'S * A REALLY GOOD * GUY!
QUICKDATA COMPUTER SERVICES, Inc., 2618 Penn Circle, Sheboygan WI 53081; 414-452-4172; Henry Fale (Folley), mfr, sales & H/Z 8-bit computer parts, support, and H-SCOOP news letter, also 24hr BBS. HANK'S * A REALLY GOOD * GUY!
SIGMASOFT & SYSTEMS, 2433 Winterstone Drive, Dallas TX 75023-7818; 214-596-0116 (Central Time); Clay Montgomery Prop., hardware/peripherals mfr, software publisher, hardware & tech support, RAM drives, Hi-Res grafix addons for H/Z89s. Catalog & help; A *FANTASTIC* GOOD GUY!
SKYCASTLE COMPUTER PRODUCTS, attn: Mike Krivohlavak, 29 Honey Hill Road, Orinda, CA 94563; call 415-254-3931 after 6pm Pacific Coast time. Calligraphy-II, dot-matrix print graphics utility. MIKE is *A REALLY SUPER-GOOD GUY*!
TMSI/LEE HART, 323 West 19th Street, Holland, MI 49423; phone 616-396-5085 (evenings, weekends--usually). Misc. 8-bit 8/89 support. Lee's "A NICE GUY" & *SUPER* ENGINEER!

Note: When contacting any of these nice people, please do remember to say that you found them listed here in The SEBHC JOURNAL. Thanks!

H19/89 Screen Control Comments

by

William B. Rothman

January 6, 1981

If one uses lots of direct cursor addressing as well as

other commands to the VDT to generate a decent display with an H19 or H89, one finds that apparently random characters appear from time to time on the screen. This is rather annoying, not to say ugly. The cause of this "mung" on the screen can be traced to setting of the HDOS TT device driver "TT width" to 80 columns, which appears to be Heath's default setting.

This setting causes HDOS to output a CR/LF upon reaching column 80, which is normally not noticed, since the terminal is printing and receiving carriage returns regularly from programs and users. But direct cursor addressing and other commands to the terminal depend upon having characters transmitted in an unbroken sequence. Should HDOS interject a CR/LF in the middle of a sequence, the command does not function correctly and the characters which are transmitted after the CR/LF are printed as normal ASCII characters instead of being treated as nonprinting commands.

The fix to this problem is to SET the terminal driver to a width of 255 characters, which effectively eliminates the CR/LF injection. Note that MBASIC, quite reasonably, seems to default its terminal width to 255.

I also recommend that one sets the DIP switch on the video board to wrap at the end of lines. Although this change is not as critical, it is often of advantage to the user to have the screen in line-wrap mode. An example is the printing by SoftStuff's CPS [modem program] of periods for each line sent over the modem. With the terminal in line wrap mode, one can be assured of seeing a dot for each line, as opposed to wondering what is happening after the eightieth line is transmitted. Further, the two parts, terminal width and line wrap, are complimentary, and should be set in unison.

[Note the ancient date of the above article! We ran across it while going through that huge pile of HUG discs Pat Swayne laid upon us, and we thought the item was too good to ignore! Now, if you have recently obtained either an H8/H19 combination or an H89 computer and are upset by the "mung" referred to above, try the suggestions given above. It may just make your display look a little better. Since our H19 and H89 both have TMSI's screen fix installed, we don't experience this problem, but it does appear on an unmodified Z19 terminal. We tried the fix and it works! -- ed]

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FOR SALE, CHEAP!... FOR SALE, CHEAP!... FOR SALE, CHEAP!..

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30 *-ORIGINAL-* Heath H8 cassettes of distribution software. We can't read 'em (took out the cassette I/O card) but the cassettes will work ok for audio use. Undamaged physically, in 2 Radio-Shack cassette carriers. Plus a dozen FREE non-computer audio tapes FREE!. Ten bucks for all, shipping included! Call Lenny at 313-662-0750, anytime except at supper time and make some kid's Christmas a happy one!!!

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HUG'S GONE, BUT WE'VE GOT THE SOFTWARE!

HUG PART #	TITLE/DESC	Price	HUG PART #	TITLE/DESC	Price
-no p/n-	EVRYWARE GAMES Vol 1	\$10	885-1025	RUNOFF TEXT PROCESSOR	\$10
-no p/n-	M6800 DEVELOPMENT SYSTEM (for robot control)	\$10	885-1044	H-8 SOFTWARE	\$10
-no p/n-	HUG FIG-FORTH (3 discs)	\$30	885-1050	MODEM COMMUNICATIONS SYSTEM	\$10
-no p/n-	HDOS PRINTER PROGRAMS (by /AWIZ/)	\$10	885-1059	FOCAL-8 INTERPRETER Disc A	Four
-no p/n-	MISC BASIC & ASM FILES	\$10	885-1059	FOCAL-8 DOCUMENTATION Disc B	disc
-no p/n-	MODEM BOOT DISC w/HTERM	\$10	885-1060	"DISC VI" MISC SOFTWARE	\$10
-no p/n-	MACRO Version II	\$10	885-1063	FLOATING POINT PACKAGE	\$10
-no p/n-	MBASIC & BHASIC GAMES	\$10	885-1069	FOCAL-8 DOCUMENTS Disc C	set-
-no p/n-	COMPLETE EDDIE-BABY	\$10	885-1069	FOCAL-8 SOURCE FILES Disc D	\$30
-no p/n-	H-8 COLOR GRAPHICS-ASM	\$10	885-1075	HDOS SUPPORT PACKAGE Disc A	Set:
-no p/n-	HUG SYSTEM SOFTWARE & UTILITIES	\$10	885-1075	HDOS SUPPORT PACKAGE Disc B	\$15
-no p/n-	AUTOSCRIBE WORKING MAS- TER Issue 150.02.XX	\$10	885-1077	BASCON/TXTCON cassette to disc conversion package	\$10
-no p/n-	CSHDOS COMPUSERVE [MODEM] UTILITY	\$10	885-1078	Z80 ASSEMBLER (some docs)	\$10
-no p/n-	HUG MAILING LIST SYS- TEM (for internal use?)	\$10	885-1079	PAGE EDITOR FOR H89/H8/H19	\$10
-no p/n-	HDOS 2.0 DESPOOLING DEV DRIVER - Tom Jorgenson	\$10	885-1083	"DISC XVI" MISC. SOFTWARE	\$10
-no p/n-	HUG MODEM COMMUNICATION SYSTEM	\$10	885-1086	TINY PASCAL Version 4.1	\$10
-no p/n-	HUG MBASIC GAMES (Bootable disc)	\$10	885-1089	MISC HDOS SOFTWARE	\$10
-no p/n-	HDOS INVADERS GAME (Includes a debugger by "GAC")	\$10	885-1090	MISC HDOS UTILITIES	\$10
-no p/n-	MISC HDOS ABS & ASM FILES	\$10	885-1092	RDT DEBUGGING TOOL FOR HDOS	
-no p/n-	"SOURCE DEMO" (probably an HEC promo item)	\$10	885-1092	RDT DEBUGGING TOOL	Set:
-no p/n-	HUGMAN & MOVIE (anima- tion program for H19)	\$10		/^MODIFIED^/	\$15
-no p/n-	FIG-FORTH OPERATING SYSTEM (JWF)	\$10	885-1093	MBASIC DUNGEONS & DRAGONS	\$10
-no p/n-	HA-89-3 COLOR DEMO DISC 1	The	885-1094	FIG-FORTH "Disc #1"	\$10
-no p/n-	HA-89-3 COLOR DEMO DISC 2	set:	885-1095	SY: HARD-SECTOR DEVICE DRIVER	\$10
	(probably for HEC promo use)	\$15	885-8007	EZITRANS	\$10
			885-8009	EVRYWARE GAMES DISC (boots!)	\$10

NOTES: 1- The above "no p/n" discs may have been Pat's working, or in-development discs. We've checked them all, and the software seems ok. * ORDER THESE DISCS BY FULL DESCRIPTION ONLY!

2- "HOLIDAY SPECIAL" PRICES--ANY THREE DISCS FROM THE ABOVE LIST FOR \$25, shipping included! (Does not apply to two or 3-disc sets. Expires 24-Dec-92!)

"HOLIDAY PRICE SPECIAL": Any THREE discs from the above list (excepting sets) for ONLY \$25 (Shipping included)! This offer expires on 24-Dec-92, so get your order in TODAY--^-- NOT (-^ Real Soon Now!!

PLEASE NOTE: This list replaces those from our earlier editions which were printed as found on an "inhouse program disc" mixed in with those received from Pat. It is an actual physical inventory of the discs on hand. We are continuing to inventory all discs on hand and will update our lists until the job is FINALLY done. There are a number of hard-copy documents on hand for many of the discs listed; they also will be inventoried and added to future listings. Please be patient, we have a whole bunch of work to do--and it's all single handed! Do I hear any offers of help from out there?!

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Please excuse me; I must now go gnaw on a big old turkey leg bone and some other oh-so yummy stuff!

HUG PART #	TITLE/DESC	Price
885-1022	PROGRAM DEVELOPMENT EDITOR	\$10

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SEBHC JOURNAL

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000 SPECIAL OFFER 000

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very much.
