



.UPDATE

Issue 2 • March 1980

THE THINGS YOU SAID

Almost 10% of you returned the survey from the back of the software catalog which was mailed to you in December. Thank you. It appears that over 80% of you are running the H-8/H-89. And almost half are using the cassette system. About 50% use, or plan to use CP/M. 73% want REMark monthly. 84% prefer utility type software. 61% prefer business software while 42% want to play games. And 23% are hams. Almost everyone prefers to program in Basic with 42% indicating Assembly, 21% Pascal and 19% wanting Fortran. But the real meat is in the many helpful comments. We WILL react to these comments. And those that applied, (14 pages of abbreviated comments) were passed to top management at Heath. And I was amazed at the large number of users asking for a "BIG DUMMY" section in the magazine. "Help us push the right buttons." you ask. OK.

OTHER BITS, BYTES AND NIBBLES

HARDWARE PROGRAM - your basic flop. Last year, we offered to pay for user developed interfacing ideas for the H-8. I know the stuff is out there, but only a few fellows were interested in sharing their ideas with you. We are negotiating with a few authors and will have something to offer in the next issue of REMark or .UPDATE. On this subject, PORTZABEE COMPUTER CENTER (sounds impressive) has about eight, H-8 circuits designed in which you may be interested. Call Henry Fale at (414) 452-4172 for more info.

THREE DRIVE 'H-17' - - For those of you that want to kludge a third drive to the H-17, you'll need some parts. Namely, a plug for the ribbon cable. Almost any electronic parts house will have 3 M part number 3463-0001. One such place is Prehler, Inc. Call 800-621-1418. Also, you will need a couple feet of wire and the shell connector, Heath part number 434-319 and three pin connectors, part number 432-1002. And oh yes, an H17-1 disk drive. HDOS Version 1.6 should have been sent to you by now. If not, contact HEATH, NOT us.

HDOS PROGRAMMERS GUIDE UPDATE

As you HDOS owners know, we have a system programmers guide that shows you how to interact with the system at the assembly language level. And since the introduction of version 1.5 (new syscalls), there has been a growing need for further explanation of these functions beyond what can be done in these pages. Well, they locked the systems guy in a room, threw him snicker bars and told him to make it happen. And, by golly it did. So, for the price of a stamp or a phone call (616-982-3571) to HEATH, you can get either the UPDATE or the original guide. The HEATH part number for the HDOS programers guide is 597-1973. The Update is Part number 597-2194.

OOPS

Having problems getting the LABEL CHANGER to work (REMark 9)? That's because we left out the H17TSA.ACM. What a dumb mistake. The program also has XTEXT's to common decks called 'SYSDEF.ACM' and 'SYDEF.ACM'. These are HDOS equivalencies and

DUMP ABS/ASM/H89//H8/H17/16K

The user may view or change data on a disk on a track by track and sector by sector basis. Dump displays and receives data in hex or ASCII form.

DSM ABS/ASM/H89//H8/H17/24K

An Intelligent Disassembler that will disassemble an absolute binary file, generating an assembly source file.

FLOATING POINT PACKAGE
HUG P/N 885-1063/\$18.00
H8/H17//H89 Disk

This disk is for the experienced assembly language programmer ONLY.

SCICAL ABS/H89//H8/H17/24K

Turn your H8 or H89 into a powerful scientific calculator with 19.5 digit accuracy when using scientific functions and 22 digit accuracy on floating point math. The scientific functions which can be implemented are: LN(X), LOG(X), EXP(X), PWR(X), Y TO THE X, and SQR(X).

INTEGER ACM/H89//H8/H17/16K

A utility constituting a complete integer arithmetic package. The routine includes subroutines for ADD, SUB, MULT, and DIV.

FLPOINT ACM/H89//H8/H17/16K

A complete floating point arithmetic package.

DISK IX MISC. SOFTWARE
HUG P/N 885-1064/\$18.00
H89//H8 SOFTWARE

TIME ABS/ASM/H89//H8/H17/16K

Time of day function for HDOS. The TM.DVD program is used to provide the clock function to HDOS, and TIME.ABS is used to set the time of day or to read it.

PRINTL ABS/ASM/H89//H8/H17/16K

Take a file and output it to your printer with or without line numbers, auto paging and page numbering.

SAVEIT ABS/ASM/H89//H8/H17/16K

Recovers a file from a damaged disk by reading all good sectors into a different file and reports the sectors not recovered.

CUT ALONG THIS LINE

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ASCII EQU's that each programmer should have from the programmers guide, but normally called 'HDOS.ACM' and 'ASCII.ACM'. There... I've probably caused more confusion. But, if you can't get it to play, send Gerry a disk, and he'll fix you up. Ask for ISSUE9.ACM.

AND THEN I WROTE

Yes... There is software for the H-88/H-89. All disk software offered by HUG with the exclusion of 885-1023, 885-1031 and 885-1052 will run on the H-89. The game packages (cassette) sold by HEATH will NOT run on the H-88. Nor will HUG machine (ABS) code programs. In the future, all HUG software will specify machine and version dependency, if any.

Also, all cassette software released by HUG through TAPE/VOLUME IV was written with the 'old' cassette operating system and, where applicable, EX. B.H. Basic version 10.02. Be advised, H-88's, that you're gonna run into snags and that some things will not play using the latest release of Basic (PEEKs/POKEs and port assignments). HUG P/N 885-1046 (EX.B.H. BASIC (10.02) is being dropped, since it will not work on an H-88. But 10.02 Basic comes FREE on the front of TAPE IV, HUG P/N 885-1036 for those that still want it.

"CAN THE COLOR"

Beginning with issue 7, we have had a color shot on the cover. I wanted something besides a picture of a piece of hardware, so we asked for a quote and, to my surprise learned it costs just a couple cents per magazine. The reason I bring this up is because we had suggestions to 'can the color and the slick paper and publish more often. We don't care what it looks like.' Well, believe it or not, the slick paper costs less than the rough stuff we used in issue 6. So, we're doing it the most economical way and will continue to. And... if all goes well, we will be increasing the frequency of REMark this summer.

DISK VII Utility Software HUG P/N 885-1060/\$18.00 H89//H8 SOFTWARE

NEWNAME ABS/ASM/H89//H8/H17/16K

A utility to relabel a disk without having to re-initialize it.

SUBMIT ABS/ASM/H89//H8/H17/16K

Create a program that will issue a series of commands to HDOS, just as if they were manually typed one at a time.

BAUD ABS/ASM/H89//H8/H17/H19/16K

Change the baud rate of your H89 or H8/H19 without having to reboot the system. The rate is user set from 110 baud to 19200 baud. Works only with the H89 or H8-4 and H19.

CLIST ABS/ASM/H89//H8/H17/24K

Create a catalog of more than one disk, save it in a file or print it out.

FDUMP ABS/ASM/H89//H8/H17/16K

A sector oriented disk file handling utility to examine and change any HDOS file on a byte by byte basis.

ABSDUMP ABS/ASM/H89//H8/H17/16K

A cluster oriented disk utility to examine and change an HDOS disk on a byte by byte basis.

VIII Utility Software (2 Disks) HUG P/N 885-1062/\$25.00 H89//H8 SOFTWARE

MEMTEST
ABS/ASM/H89//H8/H17/16K

A comprehensive memory test that performs seven different tests on user selected blocks of memory.

DUP ABS/ASM/H89//H8/H17/16K

Disk duplicating utility for a dual drive system. The destination disk need not be initialized.

NEW SOFTWARE AVAILABLE SOON

Some of the neat things we are planning is a MBASIC game package utilizing the graphics capability of the H-19... The small business package converted to MBASIC... And we are working on another release of cassette software, as well as some more CP/M disks. Details will be in an .UPDATE.

HUG STAFF GROWS

Meet Jon Falkner from Kentucky. A genuine asset to the the HUG staff, Jon is familiar with HEATH from his experience in the retail store system and knowledgeable both in the hardware and software. Jon has developed four new HUG products in as many weeks which are now available. He describes them elsewhere in this issue. With Jon on board, we will be able to turn out not only more software, but BETTER prepared, tested and documented software. Welcome, Jon.

ET-3400 CONTEST WINNER

Louis Graue (Louisville Ky.) won the ET-3400 software contest with his entry which appeared in the last issue of REMark. Congratulations Louis. He and some of the other

entrants have agreed to help us 'proof' some of the ET-3400 programs that have been submitted to date. As soon as this activity is complete, we will be offering a special ET-3400 software release in the form of a book. We expect it will contain perhaps 15-20 programs with user documentation and schematics. It'll be very inexpensive. Look for availability in May.

DEADLINE DASH

EUGENE PAYMAR President of the Bay Area Heath Users' Group, thank you for you hospitality and assistance in conducting our HUG meeting in Frisco. There were at least five other local users' group attending, including Larry Henderson from CHUG (DC area) and the Kansas City group.

SOURCE

The SOURCE was reviewed in the January issue of Interface Age by Carl Warren. Our ID is TCD137. Also, all the Heathkit Electronic centers are now on, so leave a note in our mail box. We will build a directory of all HUG members on the system. Also, we plan on our own bulletin board (HUBBA) to be on the air by May 1. More in the next REMark.



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