Saving Our CLASSIC Heath 8-Bit Machines!

SEBHO JOHRNAU

The Society of Eight Bit Heath Computerists' Monthly Newsletter

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Subscription Information & Order Blank on Page 11.

Me Mish All Gur Faithful Readers The Hery BEST HOLIDAY GREETINGS



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Reader's MAILBAG (And Misc)

Dear Lenny,

Sorry for the delay in renewing my subscription! The last issue you sent me was October's, so if you can renew me up to August '92 again, please send November and December--which should bring me up to date. [Ok, no problem! -- ed]

Thanks for the good work! I always read the JOURNAL thru from cover to cover as soon as it arrives (and it does arrive at least two weeks sooner, thanks to First Class postage).

I've often wondered why the back page refers to official Society meetings announced in each July issue. I've belonged for over three years, and can't recall EVER hearing about an annual meeting!

Blessings for you and yours this holiday season. I especially enjoyed your piece this last year about driving to Cape Cod to help out an H89 user get his machine back into working order.

Rev NELSON HOWARD iii, P O Box 114, East Derry, NH 03041

[Well, Rev, your renewal request has been honoured. note that we had hoped to get the November edition out last month (Nov), but numerous un-planned events upscrewed our good intentions--it seems as if that's happening more every day here. And thanks for your kind words about our newsletter, that made one of our days a little less gloomy! please note that we DO NOT regularly make house calls--that "little" excursion to Cape Cod was necssitated by a JOURNAL's client having extremely bizarre trouble with a pair of 89s bought from us. (And I'm getting much too old to traipse off cross-country these days!) When I left Cape Cod, both of the computers were running just fine. By the time I got back, and before I could assemble an external pair of half-height quad density drives for him, one machine re-developed identical symptoms to those which had triggered the original safari. Later, the other machine fell victim to the same ailment--what a bummer! Eventually some good has come from it, we now know how that wonderfully-refreshing sea breeze can Really Screw Up floppy-drive Read/Write heads by encrustating their magnetic pole pieces with a salt film! see the FIRE! article elsewhere in this issue.) I'm glad you are getting your JOURNALs earlier than when we were using 3rd class bulk mail. It was much cheaper for us then, but when postage rates went up and our mailing list shrank as well, we were forced to go 1st class. A couple benefits of 1st class mailing are better P.O. handling of folded & stapled JOUR-NALs, and elimination of sealing copies in plastic bags (that's eight hours of stuffing labour, plus 1-1/2 cents materials cost/copy for every edition). What with our chronic "retrograde cash flow", every farthing we save helps greatly. Now, about that "yearly Society meeting": Once we did seriously intend holding a meeting, but after discussing it with several remotely-located subscribers, we finally dropped the idea as far too expensive to carry out. Perhaps we'll do one next year--maybe tie it in with the Z100 User's convention. Anybody willing to help? Write Real Soon Now! -- ed]

TED... H/Z89 PARTS WANTED... H/Z89 PARTS WANTED... H/Z89

Looking for the following equipment/accessories/software for my Heathkit H89:

Z-89-11 I/O Board, together with IBM Emulation Soft-

H-89-6 Backplane
Magnolia RF Modulator
Ham Radio Circuits & software
Glare Filters
Amber CRT

H-1000 TMSI's replacement 8/16-bit CPU Board

GP-29 Nortwest Digital's replacement Graphics TLB for the Z-89-FA and Z-89A

H-67 Hard Drive w/cables, HDOS software for sameincluding diagnostics, archiving, parking, device drivers--whatever!

Please contact: Mark Hunt, P.O. Box 357, Ray Brook, NY 12977

"Staunch 8/89er News"... "Staunch 8/89er News"... "Staunc

Kirk Thompson now has a General Software Catalogue file which can be downloaded to your Heath-compatable pre-formatted discs (HDOS or CP/M). Files are recorded "squeezed"; an "unsqueezer" utility is always included for your convenience.

Available disc formats are: Standard (SS/SD), or Double-Sided (DS/SD) 48tpi Hard Sector; Single, or Double Sided 48 or 96tpi Soft Sector for HDOS and CP/M titles. Kirk will sell discs to you at \$6 each if you do not send him your own pre-formatted discs. If you wish, Kirk will pack multiple items on one disc, but will NOT subdivide a disc.

For more details and a copy of his newest catalogue write: Kirk Thompson, c/o "The Staunch 8/89er", P O Box 548, West Branch, IA 52358.

NOTE: Subscriptions to "The Staunch 8/89er" start and end with the calendar year. Now is the prime time to order your own subscription! Costs \$15/year, six editions every year. (Tell him Lenny told you about this in the SEBHC JOURNAL!)

Spanish in 2-column format!)

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FIRE! (Continued from last mont

By John DeArmond, in "Midnight Engineering" magazine

One very important note: Most all monitored alarm systems notify the central control by autodialing a number over your home phone line. If you have an autodialing alarm installed, insist that the control box be mounted low in your basement (but protected from flooding) as close as possible to your phone "drop", AND insist upon a smoke alarm being installed in the ceiling directly above it. The reason for this is quite simple: By the time my smoke alarm went off the fire had already burned out my phone wiring!

Be especially sure that you get an alarm system with radio backup. If the phone line fails--for whatever reason--the central office will receive a backup call from the radio channel.

If you go with phone-line only, ask these questions:

* How does the system handle a line in use by one of your kids, the missus, or your modem? The better alarms pass your phone line through the alarm box and will dump the house side if it needs to call in an alarm.

* How does it handle busy or no-answers on the other end? How many times and in what intervals will it redial? I consider "demon dialing" (that is, re-dialing as rapidly as possible) as the best, because a fire spreads geometrically. By the time you get a smoke alarm, you have only minutes to take protective action! And how many different numbers will it try? If the line to the primary monitoring station is out what are the alternatives? Will it call a neighbor who'll relay your alarm?

Protective measures other than alarms

* Consider installing a home sprinkler system. Prices for small closed-in areas are not too bad--such as basement/work-shop areas, and they can be made to serve as a backup to the smoke alarm in many cases. (Also, having a sprinkler system also helps lower your fire-insurance premiums!)

* Consider installing a home fire hose. These are inexpensive and well worth the cost. In my case, if I'd had one, I could have put out the fire before the firemen had arrived! If you decide to put in a fire hose, buy industrial one-inch ID water hose. It's tough and passes much more water than a garden hose. Also, install an external 90-degree rotation house-supply shutoff valve (rather than the usual garden-hose turn-forever type) and a one-inch industrial dry-pipe hydrant upstream of that valve. It should be in an easily-accessed but frost-free, below-ground location outside and away from the house. The fire hose should be stored out of direct sunlight very close to, and coupled to the hydrant. This ensures that shutoff valve, hose and hydrant are always ready for quick emergency use. The hose uses standard couplings,

but, together with the dry-type pipe hydrant, remains dry until the water is turned on. This passes two to three times more water than a typical 5/8-inch garden hose and standard garden spigot.

Finally, plan out, THEN PRACTICE Fire Drills AND Escape Routes! When a fire happens to YOU, it WILL NEVER resemble any pre-rigged TV show. You won't have time to go rummaging about for flashlights, clothing, valuables, or ANYTHING! Be prepared for the worst at any instant, night or day! Remember: You have only seconds to escape that environment--just ONE mistake can be fatal.

Emotional Considerations

This is probably the hardest part for me to write about as I can only now--after two months--face a computer long enough to write this article. I remember jumping into the salvage operation that afternoon...with enthusiasm. I rationalised that it couldn't be so bad; after all, here is something recognisable, and over there is something that appears OK....but when the third dumpster is filled to overflowing with debris and ruined possesions, the total extent of one's loss begins to sink in.

Even though some papers and data survived, I am completely wiped out! Insurance money won't rebuild my lab facilities, much less give me time to rebuild my product. I have enough cash to carry me for a while, but I am at a complete loss as to proceed (shall I quit R&D, or press on regardless?)....

Since the fire my personal relations are so strained that my partner has broken away, and my wife and I are frequently at each other's throats—being crammed into a two-room apartment for several months has that effect on a formerly-convivial marriage. None of us were prepared for the great social pressures this fire brought upon us. And it has had side effects; people whom I had considered to be friends suddenly became stranges. Others I'd worked or socialised with daily didn't even call. That really hurt. At the same time, other people I'd never felt really close to unselfishly pitched in and volunteered help....To all of them, I say: THANKS, many times over!

[Editor's comments: You may contact author John DeArmond, who is a software and hardware consultant, at Rapid Deployment Systems, Post Office Box 670386, Marrietta, GA 30066, phone 404-578-9547, or via modem--usenet:jgd@rsiatl.uucp. We are most grateful to both Midnight Engineering's editor, Mr William Gates ("no, not THAT one!") and John DeArmond for granting us permission to reproduce this condensed and edited version of John's original article which appeared in Midnight Engineering's July-August '91 edition. We hope John's story will inspire all SEBHC JOURNAL readers--whom, we hasten to advise, should write up their own experiences for publication in future JOURNALs.]

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MBASIC PROGRAMME, Cont'd From VI:4

OSCAR YOUHAI'S MATHMATICS TUTORIAL PROGRAMS (Part Two)

The following "readme.doc" text was on the disc Oscar had sent us:

* ANNUITY.BAS *

This program is menu driven and allows the user to enter <1>SAVINGS PHASE, <2>ANNUITY PHASE, <3>BOTH (Original listing was in our November, 1991 edition.)

SAVINGS PHASE

You enter an initial deposit amount, compounding periods. interest rate, account name, and years amount shall be on deposit. The information you enter is displayed, then the menu asks you to choose display of savings activity by compounding periods, that is, to screen, printer or neither. NOTE IF COMPOUNDING IS 365, THEN PROGRAM WILL AUTOMATICALLY NOT PRINT TO SCREEN OR PRINTER. It will display the compounded total. The program will display up to 12 compounding periods a year, displaying each amount earned by the specified interest rate and breaks at end of each vear

ANNUITY PHASE

You can go directly to this option and enter PRINCIPAL, INTEREST RATE, NUMBER OF COMPOUNDING PERIODS, AMOUNT TO BE WITHDRAWN EACH COMPOUNDING PERIOD, AND NUMBER OF YEARS TO WITHDRAW, Display Options: (Screen) (Printer)

* MENU.BAS *

When loaded and run this program displays a list of these described arithmetic drill programs. A Pupil may then chose the particlar drill which meets his needs. Each drill program is written so it also may be run in "stand-alone" mode.

* ADD. PRO *

A program designed for lower elementary level or remedial pupils through which they may practice addition skills. The 20 PN\$=" WELCOME TO THE ADDITION PROGRAM" Pupil indicates how many digits are to be used in the five examples that are generated. The Pupil then answers problems 40 VN\$=" September 15, 1990 " from keyboard, one at a time. The program keeps track of answers, then displays a correction table with Pupil's answers, the correct answer, total correct answers, and score as a percentage of all the problems in that run. The Pupil can 80 GOSUB 310:REM then re-run this drill program or chose to run one of the 90 GOSUB 350:REM others.

* SUB.PRO *

SAME AS ADD.PRO -- Subtraction Practice

* MULT.PRO *

SAME AS ADD. PRO -- Multiplicaton Practice

* MULTABLE.BAS *

This is a program for practicing the MULTIPLICATION TABLES 160 M\$=DT\$ from 2x? thru 10x?....

Note: All programmes run under MBASIC V5.2 (CP/M)

LISTING TWO -- (listing one was in November edition)

```
10 REM
                         MENU.BAS by Oscar Yohai
 20 REM
               Edited slightly by L Geisler
 30 E$=CHR$(27):REM
                         SET UP SCREEN CONTROL CODES
40 CLR$=E$+"E":REM
                         CLEAR SCREEN
                         REVERSE VIDEO ON
 50 VON$=E$+"p":REM
 60 VOF$=E$+"q":REM
                         NORMAL VIDEO ON
 70 PRINT CLRS
80 PRINT: PRINT: PRINT
90 PRINT
 TAB(10)VON$" MENU OF MATH PROGRAMS ON THIS DISC: "VOF$:PRINT
 100 PRINT TAB(10); VON$; " 1> SUBTRACTION "; VOF$: PRINT
 110 PRINT TAB(10); VON$; " 2> ADDITION "; VOF$: PRINT
 120 PRINT TAB(10); VON$; " 3> MULTIPLICATION "; VOF$: PRINT
 130 PRINT TAB(10); VONS; " 4> DIVISION "; VOFS: PRINT
 140 PRINT
 TAB(10); VON$; " 5> MULTIPLICATION TABLES DRILL "; VOF$: PRINT
 150 PRINT TAB(10) VON$" 6> QUIT "VOF$: PRINT
 160 PRINT
  TAB(10) VON$" Select one -- <1><2><3><4><5><6> "VOF$;:INPUT D
 170 ON D GOTO 180,190,200,210,220,230
 180 RUN "SUB.PRO"
 190 RUN "ADD.PRO"
 200 RUN "MULT.PRO"
```

210 RUN "DIV.PRO"

220 RUN "MULTABLE.BAS"

230 PRINT CLR\$:PRINT:PRINT:REM End this session 240 T\$=" Wasn't that Fun?! See you again Real Soon Now... "

250 PRINT TAB(40-LEN(T\$)\2)T\$

260 PRINT CLRS: SYSTEM

150 GOSUB 400

170 GOSUB 460: REM

LISTING THREE -- ADDition Program Segment

10 REM ADDition program segment 30 DT\$=" Written by Oscar Yohai 50 E\$=CHR\$(27):CLR\$=E\$+"E":VON\$=E\$+"p":VOF\$=E\$+"q" 60 X\$=CHR\$(105):GRON\$=E\$+"F":GROF\$=E\$+"G" 70 GOSUB 280:REM CLEAR SCREEN TURN GRAPHICS ON PRINT TOP AND BOTTOM BORDER LINE 100 N=6 110 GOSUB 400:REM PRINT BLANK LINES 120 M\$=PN\$:REM M\$ IS TEXT MATERIAL VARIABLE 130 GOSUB 460: REM PRINT FIRST MESSAGE LINE 140 N=2

PRINT SECOND MESSAGE LINE

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MBASIC LISTING Cont'd

```
180 GOSUB 400
                                                                          FOR J = 1 TO M
                                                                  710
190 M$=VN$
                                                                  720
                                                                                  RANDOMIZE PEEK(11)
200 GOSUB 460
                                                                  730
                                                                                  N1(J)=INT(RND(Y)*10^S)
210 N=3
                                                                  740
                                                                                  IF N1(J) < 1 THEN 720 ELSE 750
220 GOSUB 400
                                                                  750
                                                                                  RANDOMIZE PEEK(11)
230 M$ = AU$
                                                                  760
                                                                                  N2(J)=INT(RND(Y)*10^S)
240 GOSUB 460
                                                                  770
                                                                                  IF N2(J) < 1 THEN 750 ELSE 780
250 GOSUB 350
                                                                  780
                                                                          NEXT J
260 GOSUB 510
                                                                  790
                                                                          FOR J=1 TO M
270 INPUT "PRESS <RETURN> TO CONTINUE ";R$ : GOTO 530
                                                                          PRINT " ";
                                                                  800
280 REM
                         CLEAR SCREEN
                                                                  810
                                                                                  FOR K=1 TO 5
290 PRINT CLR$
                                                                  820
                                                                                   IF N1(J)>=10^(S-K) THEN 860
300 RETURN
                                                                  830
                                                                                   IF (S-K)+N1(J)=0 THEN 860
                                                                                  PRINT " ";
310 REM
                        TURN GRAPHICS ON
                                                                  840
320 PRINT GRON$
                                                                  850
                                                                                  NEXT K
330 RETURN
                                                                  860
                                                                                    PRINT N1(J); TAB(J*10);
340 REM
                                                                  870
                                                                          NEXT J
                        PRINT TOP & BOTTOM BORDER LINES
350 REM
                                                                  880
                                                                          PRINT
360 PRINT VONS: SPC(78): VOFS
                                                                  890
                                                                          FOR J=1 TO M
                                                                  900
                                                                          PRINT "+";
370 REM
380 RETURN
                                                                  910
                                                                          FOR K=1 TO S
                                                                  920
                                                                            IF N2(J)>= 10^(S-K) THEN 960
390 REM
400 REM
                        PRINT BLANK LINES WITH OUTSIDE BORDER
                                                                  930
                                                                              IF (S-K)+N2(J)=0 THEN 960
                                                                  940 PRINT " ":
410 FOR I=1 TO N
420 PRINT VON$;" "; VOF$; SPC(74); VON$;" "; VOF$
                                                                  950
430 NEXT I
                                                                  960
                                                                              PRINT N2(J); TAB(J*10);
440 PETURN
                                                                  970
                                                                          NEXT J
                                                                  980
450 REM
                                                                          PRINT
                         PRINT MESSAGE LINE
                                                                  990
                                                                          FOR J=1 TO M
460 REM
470 T=_EN(M$):S=(80-T)/2: REM
                                  CENTERS TEXT ON SCREEN
                                                                  1000
                                                                          FOR K=1 TO S+3
480 PRINT VON$; SPC(2); VOF$; TAB(S-2); VON$; M$; VOF$;
                                                                              PRINT "-";
                                                                  1010
  TAB(73); VON$; SPC(2); VOF$
                                                                  1020
                                                                               NEXT K
                                                                                   PRINT TAB(J*10)
490 RETURN
                                                                  1030
500 REM
                                                                  1040
                                                                          NEXT J
                        TURN OFF GRAPHICS
                                                                          FOR J=1 TO 1
510 REM
                                                                  1050
520 PRINT GROF$
                                                                  1060
                                                                                   PRINT
                                                                  1070
                                                                                   NEXT J
530 REM
540 PRINT: INPUT "PRESS < RETURN> TO CONTINUE "; Z
                                                                  1080 PRINT
550 PRINT CLR$
                                                                  1090 FOR I = 1 TO M
560 M=5
                                                                  1100 PRINT
 570 CO=0
                                                                  1110 PRINT VON$; "ENTER YOUR ANSWER FOR EXAMPLE #"; I; VOF$;:
 580 WO=0
                                                                   INPUT A(I):PRINT
 590 DIM R$(5),N1(5),N2(5),C(5)
                                                                  1120 NEXT I
 600 PRINT VONS; Please enter your name "; VOF$;: INPUT N$
                                                                  1130 PRINT CLRS
 610 PRINT: PRINT
                                                                   1140 REM
                                                                                                   PRINT RESULTS
 620 PRINT VONS;
                                                                  1150 PRINT
   "How many digits for examples <1> <2> <3>"; VOF$;: INPUT S
                                                                  1160 PRINT VON$; N$; VOF$; " "; VON$; "RESULTS OF YOUR WORK ";
 630 PRINT CLRS
                                                                    VOF$
 640 FOR I=1 TO M
                                                                   1170 PRINT
                                                                   1180 PRINT VONS; "EXAMPLE CORRECT ANSWERS YOUR ANSWERS RES
 650 PRINT SPC(2); VON$; I; VOF$; SPC(4)
 660 NEXT I
                                                                    ULTS"; VOF$
 670 PRINT: PRINT
                                                                   1190 PRINT STRING$(45,"-")
                                                                   1200 FOR J=1 TO M
 680 REM
                         Data-Processing Section
                                                                   1210 C(J)=N1(J)+N2(J)
 690 REM
 700 FOR I=1 TO M
                                                                   1220 IF C(J)<>A(J) THEN 1260
```

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LISTING Cont'd

```
1230 R$(J)="CORRECT"
                                                                        LISTING FOUR -- SUBTRACTION DRILL
1240 CO=CO+1
1250 GOTO 1280
                                                           10 REM
                                                                   SUB.PRO
                                                                                                     by Oscar Yohai
1260 R$(J)="*WRONG*"
                                                           20 PN$ = "WELCOME TO THE SUBTRACTION PROGRAM"
1270 W0=W0+1
                                                           30 DT$ = "WRITTEN BY OSCAR YOHAI"
1280 PRINT USING
                                                           40 VN$ = "SEPTEMBER 15, 1990"
"##) ####
                         #### \ \";J;C(J) 50 E$=CHR$(27):CLR$=E$+"E":VON$=E$+"p":VOF$=E$+"q"
                                                           60 X$=CHR$(105):GRON$=E$+"F":GROF$=E$+"G"
;A(J);R$(J)
                                                           70 GOSUB 280: REM CLEAR SCREEN
1290 NEXT J
1300 PRINT
                                                           80 GOSUB 310:REM
                                                                               TURN GRAPHICS ON
                                                           90 GOSUB 350:REM PRINT TOP AND BOTTOM BORDER LINES
1310 PRINT
1320 NEXT I
                                                           100 N=6
1330 REM
                           PROGRAM TERMINATION
                                                           110 GOSUB 400:REM PRINT BLANK LINES
1340 PRINT:PRINT:PRINT VON$; "PRESS <RETURN> TO CONTINUE"; VOF$; 120 M$=PN$:REM M$ IS VARIABLE FOR TEXT MATERIAL
1350 INPUT Z
                                                           130 GOSUB 460:REM PRINT FIRST MESSAGE LINE
1360 PRINT CLR$
                                                           140 N=2
1370 PRINT STRING$(30, "*")
                                                         150 GOSUB 400
                                                        160 M$=DT$
170 GOSUB 460:REM PRINT SECOND MESSAGE LINE
1380 PRINT "* SCORE BOARD"
1390 PRINT STRING$(30, "*")
1400 PRINT "QUESTIONS"; TAB(15); CO+WO
                                                         180 - GOSUB 400
1410 PRINT
                                                         190 MS=VNS
1420 PRINT "NUMBER CORRECT"; TAB(20); CO
                                                         200 GOSUB 460
1430 PRINT "NUMBER *WRONG*"; TAB(20); WO
                                                          210 N=3
1440 PRINT
                                                          220 GDSUB 400
1450 PRINT VONS: "YOUR SCORE IS **** ":
                                                          230 MS=AUS
                                                         240 GOSUB 460
(CO/(CO+WO))*100; VOF$; VON$; "%"; VOF$
                                                          250 GOSUB 350
1460 PRINT STRING$(25, "*")
1470 PRINT: PRINT
                                                          260 GOSUB 510
1480 PRINT VON$; "PRESS <RETURN> TO CONTINUE"; VOF$;:INPUT Z 270 INPUT "PRESS <RETURN> TO CONTINUE"; R$:GOTO 530
1490 PRINT CLR$
                                                          280 REM
                                                                     CLEAR SCREEN
1500 PRINT: PRINT: PRINT
                                                           290 PRINT CLR$
1510 PRINT TAB(10): VON$:
                                                          300 RETURN
" 1> RUN ADD PROGRAM AGAIN ": VOF$: PRINT
                                                         310 REM
                                                                                 TURN GRAPHICS ON
                                                         320 PRINT GRON$
1520 PRINT TAB(10); VON$:
 " 2> RUN SUBTRACTION PROGRAM "; VOF$: PRINT
                                                          330 RETURN
1530 PRINT TAB(10); VON$;
                                                          340 REM
 " 3> RUN MULTIPLICATION PROGRAM ": VOF$: PRINT
                                                          350 REM
                                                                                PRINT TOP & BOTTOM BORDER LINES
1540 PRINT TAB(10); VON$;
                                                         360 PRINT VON$; SPC(70); VOF$
 " 4> RUN DIVISION PROGRAM "; VOF$: PRINT
                                                         370 REM
1550 PRINT TAB(10); VONS;
                                                          380 RETURN
 " 5> RUN MULTIPLICATION TABLES DRILL "; VOF$: PRINT
                                                        390 REM
1555 PRINT TAB(10); VON$;
                                                          400 REM
                                                                                 PRINT BLANK LINES WITH OUTSIDE BORDER
 " 6> QUIT AND RETURN TO MENU "; VOF$: PRINT
                                                         410 FOR I=1 TO N
1560 PRINT TAB(10); VON$; " Your selection "; VOF$;: INPUT D
                                                         420 PRINT VON$;" "; VOF$; SPC(66); VON$; " "; VOF$
1570 ON D GOTO 1580,1590,1600,1610,1620,1630
                                                           430 NEXT I
1580 REM CALL & RUN SELECTED PROGRAM
                                                          440 RETURN
1590 RUN "SUB.PRO"
                                                          450 REM
1600 RUN "MULT.PRO"
                                                           460 REM
                                                                                  PRINT MESSAGE LINE
1610 RUN "DIV.PRO"
                                                           470 T=LEN(M$):S=(80-T)/2:REM
                                                                                                CENTER TEXT ON SCREEN
1620 RUN "MULTABLE.BAS"
                                                           480 PRINT VON$; SPC(2); VOF$; TAB(S-2); VON$; M$; VOF$; TAB(73);
1630 PRINT CLR$:PRINT "That was Really Fun!":PRINT:PRINT
                                                           VON$; SPC(2); VOF$
1640 FOR I=1 TO 500:NEXT:PRINT CLR$
                                                           490 RETURN
1650 RUN "MENU.BAS"
                                                            500 REM
                                                            510 REM
                                                                                 TURN OFF GRAPHICS
                                                            520 PRINT GROF$
```

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LISTING, Cont'd

```
1070
                                                                            PRINT TAB(J*10)
540 PRINT : INPUT "PRESS <RETURN> TO CONTINUE ":7
                                                             1080
                                                                            NEXT J
550 PRINT CLRS
                                                             1090
                                                                            FOR J=1 TO 1
560 M=5
                                                             1100
                                                                             PRINT
570 CO=0
                                                             1110
                                                                     NEXT J
580 WO=0
                                                             1120 PRINT
590 DIM R$(5),N1(5),N2(5),C(5)
                                                             1130 FOR I=1 TO M
600 PRINT VONS; Please type in your name "; VOFS; : INPUT NS
                                                            1140 PRINT
610 PRINT: PRINT
                                                            1150 PRINT VONS; "YOUR ANSWER FOR EXAMPLE #":I:VOFS;
                                                              :INPUT A(I):PRINT
620 PRINT VONS; "How many digits for the examples 1>2 3>";
 VOF$::INPUT S
                                                             1160 NEXT I
630 PRINT CLRS
                                                             1170 PRINT CLR$
640 FOR I=1 TO M
                                                                           ******* PRINT RESULTS *********
                                                             1180 REM
650 PRINT SPC(2); VON$; I; VOF$; SPC(4)
                                                             1190 PRINT
                                                             1200 PRINT VON$; N$; VOF$; " "; VON$; " RESULTS OF YOUR WORK "
660 NEXT I
670 PRINT: PRINT
                                                               : VOF$
680 REM
                                                             1210 PRINT
690 REM
                     DATA-PROCESSING SECTION
                                                             1220 PRINT VON$;
700 FOR I=1 TO M/5
                                                                "EXAMPLE CORRECT ANSWERS YOUR ANSWERS RESULTS": VOF$
710 FOR J=1 TO 5
                                                             1230 PRINT STRING$(45,"-")
720
               RANDOMIZE PEEK(11)
                                                             1240 FOR J=1 TO 5
730
               N1(J)=INT(RND(Y)*10^S)
                                                             1250 C(J)=N1(J)-N2(J)
740
               IF N1(J) < =1 THEN 720 ELSE 750
                                                           1260 IF C(J)⇔A(J) THEN 1300
    NEXT J
750
                                                            1270 R$(J)="CORRECT"
    FOR J=1 TO 5
760
                                                            1280 CO=CO+1
770
               RANDOMIZE PEEK(11)
                                                             1290 GOTO 1320
780
               N2(J)=INT(RND(Y)*10^S)
                                                            1300 R$(J)="*WRONG*"
790
               IF N2(J) > N1(J) THEN 770
                                                            1310
                                                                     W0=W0+1
800
               IF N2(J) < 1 THEN 770
                                                            1320 PRINT USING
                                                                                                    1
               IF N2(J) = N1(J) THEN 770
                                                              "##) ####
                                                                                           ####
                                                                                                                \";J
810
     NEXT J
820
                                                               ;C(J);A(J);R$(J)
     FOR J=1 TO 5
830
                                                             1330 NEXT J
               PRINT " ":
840
                                                              1340 PRINT
850
               FOR K=1 TO 5
                                                             1350
                                                                     PRINT
860
                      IF N1(J)>=10^(S-K) THEN 900
                                                            1360 NEXT I
                                                                             ****** PROGRAM TERMINATION ********
                      IF (S-K)+N1(J)=0 THEN 900
                                                            1370 REM
               PRINT " ";
880
                                                            1380 PRINT: PRINT: PRINT VONS; " PRESS < RETURN>TO CONTINUE "
890
               NEXT K
                                                              ; VOF$;
900
                       PRINT N1(J); TAB(J*10);
                                                             1390 INPUT Z
910
     NEXT J
                                                              1400 PRINT CLR$
920
        PRINT
                                                              1410 PRINT STRING$(30, "*")
                                                             1420 PRINT "* SCORE BOARD"
930
        FOR J=1 TO 5
               PRINT "-";
940
                                                             1430 PRINT STRING$(30,"*")
               FOR K=1 TO S
950
                                                             1440 PRINT "QUESTIONS"; TAB(15); CO+WO
960
                     IF N2(J)>= 10^(S-K) THEN 1000
                                                            1450 PRINT
970
               IF (S-K)+N2(J)=0 THEN 1000
                                                             1460 PRINT "NUMBER CORRECT"; TAB(20); CO
       PRINT " ";
                                                             1470 PRINT "NUMBER *WRONG*"; TAB(20); WO
980
990
        NEXT K
                                                             1480 PRINT
                                                             1490 PRINT VONS: "YOUR SCORE IS **** ";(CO/(CO+WO))*100
1000
        PRINT N2(J); TAB(J*10);
1010
        NEXT J
                                                                ; VOF$; VON$; "%"; VOF$
1020
       PRINT
                                                             1500 PRINT STRING$(25,"*")
1030 FOR J=1 TO 5
                                                              1510 PRINT: PRINT
1040
               FOR K=1 TO S+3
                                                             1520 PRINT VON$; " PRESS <RETURN> TO CONTINUE "; VOF$; : INPUT Z
1050
               PRINT "-";
                                                             1530 PRINT CLRS
1060
               NEXT K
                                                              1540 PRINT: PRINT: PRINT
```

32 PRINT GRON\$

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LISTING, cont'd 1550 PRINT TAB(10); VONS: 33 RETURN " 1> RUN SUBTRACTION PROGRAM AGAIN "; VOF\$: PRINT 34 REM 1560 PRINT TAB(10); VON\$; 35 REM PRINT TOP & BOTTOM BORDER LINES " 2> RUN ADDITION PROGRAM "; VOF\$: PRINT 36 PRINT VON\$; SPC(70); VOF\$ 1570 PRINT TAB(10); VON\$; 37 REM " 3> RUN MULTIPLICATION PROGRAM "; VOF\$: PRINT 38 RETURN 1580 PRINT TAB(10); VON\$; 39 REM " 4> RUN DIVISION PROGRAM" ; VOF\$:PRINT 40 REM PRINT BLANK LINES WITH OUTSIDE BORDER 1590 PRINT TAB(10); VON\$; 41 FOR I=1 TO N " 5> RUN MULTIPLICATION TABLES DRILL"; VOF\$: PRINT 42 PRINT VON\$; " "; VOF\$; SPC(66); VON\$; " "; VOF\$ 1595 PRINT TAB(10); VON\$; "6> RETURN TO MAIN MENU "; VOF\$; PRINT 43 NEXT I 1600 PRINT TAB(10); VON\$; "Select one "; VOF\$; : INPUT D 44 RETURN 45 REM 1610 ON D GOTO 1620,1630,1640,1650,1660,16?? PRINT MESSAGE LINE 1620 RUN: REM RE-RUNS SUB PRO 46 REM 47 T=LEN(M\$):S=(80-T)/2:REM CENTER TEXT ON SCREEN 1630 RUN "ADD.PRO" 1640 RUN "MULT.PRO" 1650 RUN "DIV.PRO" VON\$; SPC(2); VOF\$ 1660 RUN "MULTABLE.BAS" 49 RETURN 1670 RUN "MENU.BAS" 50 REM 51 REM TURN OFF GRAPHICS 52 PRINT GROF\$ LISTING FIVE -- DIVISION DRILL 53 REM 54 PRINT: INPUT "PRESS RETURN TO CONTINUE ";Z 1 REM DIVision, PROgram 55 PRINT CLRS 2 PNS: "WELCOME TO THE DIVISION" 56 DIM R\$(5),N1(5),N2(5),C(5) 57 PRINT VON\$;" Please type in your name ";VOF\$;:INPUT N\$ 3 DT\$="DRILL PROGRAM" 4 VN\$="WRITTEN BY OSCAR YOHAI 9-15-90" 58 PRINT CLR\$:PRINT TAB(20);VON\$; " PROGRAM IS NOW CREATING EXAMPLES ";VOF\$ 5 E\$=CHR\$(27):CLR\$=E\$+"E":VON\$=E\$+"p":VOF\$=E\$+"q" 6 X\$=CHR\$(105):GRON\$=E\$+"F":GROF\$=E\$+"G" 59 PRINT:PRINTTAB(20); VON\$; " PLEASE WAIT A FEW MOMENTS "; VOF\$ 7 GOSUB 28:REM CLEAR SCREEN 60 S=1:S2=2:M=5 TURN ON GRAPHICS 8 GOSUB 31:REM 61 PRINT: PRINT 10 N=6 210 REM 11 GOSUB 40:REM PRINT BLANK LINES 12 M\$ = PN\$:REM M\$ IS TEXT MATERIAL VARIABLE 220 FOR I=1 TO M 230 RANDOMIZE PEEK(11) 13 GOSUB 46:REM PRINT FIRST MESSAGE LINE 240 N1(I)=INT(RND(I)*10^S) 250 IF N1(I)<=1 THEN 230 14 N = 2 15 GOSUB 40 260 NEXT I 16 M\$ = DT\$ 270 REM 17 GOSUR 46: REM PRINT SECOND MESSAGE LINE 280 FOR I=1 TO M 18 GOSUB 40 290 RANDOMIZE PEEK(11) 19 M\$ = VN\$ 300 N2(I)=INT(RND(I)*10^S2) 20 GOSUB 46 310 IF N2(I) < N1(I) THEN 290 21 N= 3 320 A=N2(I)/N1(I) 330 IF A <> INT(A) THEN 290 22 GOSUB 40 340 IF N2(I)>=10*N1(I) THEN 290 23 M\$=AU\$ 350 IF A =1 THEN 290 24 GOSUB 46 25 GOSUB 35 360 NEXT I 26 GOSUB 51 370 PRINT: PRINT 27 INPUT "PRESS RETURN TO CONTINUE ";R\$:GOTO 53 380 REM CLEAR SCREEN 390 FOR I = 1 TO M 28 REM 400 PRINT TAB(10); 29 PRINT CLR\$ 410 PRINT GRON\$; CHR\$(113); STRING\$(6, "z"); SPC(4); GROF\$; 30 RETURN TURN ON GRAPHICS 420 PRINT TAB(7); 31 REM

430 PRINT N1(I);

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LISTING end -- FOR SALE!

```
PRINT GRON$; CHR$(113); N2(I); SPC(6); GROF$; SPC(5);
440
      PRINT TAB(30); VON$; "YOUR ANSWER "; VOF$; : INPUT A(I)
450
470 PRINT
480 NEXT I
490 PRINT:PRINT VONS: "PRESS RETURN "; VOFS;: INPUT Z: PRINT CLRS
500 REM
             ******* PRINT RESULTS *********
510 PRINT
520 PRINT VONS;
530 PRINT
540 PRINT VONS:
   "EXAMP
                                            RESULTS"; VOF$
            CORRECT ANS
                             YOUR ANS
550 PRINT STRING$(45,"-")
560 FOR J=1 TO 5
       C(J)=N2(J)/N1(J)
       IF C(J) >A(J) THEN 620
580
      R$(J)="CORRECT"
590
600
     CO=CO+1
610
     GOTO 640
       R$(J)="*WRONG*"
620
       W0=W0+1
630
640 PRINT USING
   "##)
                 ####
                                                   \";J;C(J);
   A(J):R$(J)
650 NEXT J
660 PRINT: PRINT
           ****** PROGRAM TERMINATION ********
680 PRINT: PRINT: PRINTVON$; " PRESS <RETURN> TO CONTINUE"; VOF$;
690 INPUT Z
700 PRINT CLRS
710 PRINT VONS; "HERE IS YOUR REPORT CARD...."; YOFS; "
   VON$; N$; VOF$; : PRINT: PRINT
720 PRINT
730 PRINT "*
                 SCORE BOARD
                                 *":PRINT
740 PRINT
750 PRINT "TOTAL # OF QUESTIONS"; CO+WO
770 PRINT "NUMBER CORRECT"; TAB(20); CO
780 PRINT "NUMBER *WRONG*"; TAB(20); WO
790 PRINT
800 PRINT VONS; "YOUR SCORE IS **** ":
   (CO/(CO+WO))*100; VOF$; VON$; "%"; VOF$
810 PRINT: PRINT
820 PRINT VON$; "PRESS <RETURN> TO CONTINUE"; VOF$;:INPUT Z
830 PRINT CLR$
840 PRINT: PRINT: PRINT
1000 PRINT TAB(10); VON$; "1> RUN DIVISION PROGRAM AGAIN";
1010 PRINT TAB(10); VON$; "2> RUN ADDITION PROGRAM";
   VOF$: PRINT
1020 PRINT TAB(10); VON$; "3> RUN SUBTRATION PROGRAM";
1030 PRINT TAB(10); VON$; "4> RUN MULTIPLICATION PROGRAM";
   VOF$: PRINT
1040 PRINT TAB(10); VON$; "5> RUN MULTIPLICATION TABLES DRILL";
   VOF$:PRINT
```

```
1050 PRINT TAB(10); VON$; "6> QUIT PROGRAM AND GO HOME"; VOF$: PRINT
1060 PRINT TAB(10); VON$; "Select one <1><2><3><4><5><6>"; VOF$;: INPUT D
1070 ON D GOTO 1080, 1090, 1100, 1110, 1120, 1130
1080 RUN
1090 RUN "ADD.PRO"
1100 RUN "SUB.PRO"
1110 RUN "MULT.PRO"
1120 RUN "MULTABLE.BAS"
1130 SYSTEM
```

[We're out of room again! "MULT.PRO" and "MULTABLE.BAS" will therefore appear in our January, '92 edition, For Sure! - ed]

FOR SALE! * GREAT H/Z STUFF * FOR SALE! * GREAT H/Z STU

D-G Electronics Developments Company has several Brand-New Super-89 CPU boards left in stock. At the "Last-Ever HUGCON" (August, 1986) these boards sold at \$450 each w/two 64k RAM banks installed (they hold four, which equals 256k).

The Super-89 CPU is a one-for-one up-grade replacement for the old H/Z-89 or H/Z-90 CPU & lets you run at either 2, or 4Mc/Sec clock speed, provides FOUR extra left side I/O-interface board slots, an extra serial I/O port, and an on-board real time-and-date clock IC chip (output from which is accessable from inside running programs via ANAPRO Corp's HDOS-clone CP/M DATE-STAMPER software).

The D-G Super-89 CPU has an extensive instruction manual, and runs HDOS 2.0 (Ver 3.01--if you change the Monitor ROM IC) and any version of CP/M, ZCPR, or Z-DOS. Once installed, the D-G Super89 CPU makes your dear old grey box into a "Virtual Whizzeroo", giving many peesee owners Conniption Fits!

Both HDOS.SYS and CP/M BIOS.SYS extended-RAM upgrades are available through either Henry Fale (QuikData) or the SEBHC JOURNAL. The upgrade permits accessing the full 256k RAM for use as a Firecracker RAM disc, Hot Shot Cache Memory, or Background printer spooler. At 4Mc/S clock speed, your H/Z-89/90 will run Faster Than A Speeding Bullet (or a Washington DC political rumor)! And what's even better you'll have very few new commands to learn, compared with changing over to a peesee or "clone" (UGH!). A D-G S-89 Plus: All your old 8-bit H/Z software runs with no changes whatever (just faster).

Please call Bruce Denton at D-G Electronics during business hours -- 903-465-7805 CST, and reserve YOUR D-G Super89 CPU board RIGHT AWAY! (Tell him Lenny sent you!)

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EIGHT-BIT & "OTHER" VENDOR LIST

- ==> EIGHT-BIT SOURCES, SERVICES, and VENDOR DIRECTORY <==
 - Listing last updated on 23 December 1991
- CDR SYSTEMS, Inc., 7171 Ronson Road, San Diego, CA 92111; ph: 619-560-1272, 9a-5p Pacific Time Zone--ask for Herman.
- Chalfant, Rick, 100 Bayberry Drive, Springboro, OH 45066; ph 513-748-1344 Stocks H/Z89s, parts, software. Check him out; you might be pleasantly surprised!
- D-G ELECTRONIC DEVELOPMENTS Co., 700 S Armstrong, Denison TX 75020; * phone 903-465-7805 (Central Time Zone) * 8-bit "Heartbeat" computer, 8-bit "Super89" CPU upgrade/replacement board. Bruce Denton, president; Service & advice available, also GOOD H8 and H/Z89 hardware at clearance prices; contact Bruce for details. A *Certified* YOU-BETCHA GOOD GUY!
- DISK MOVERS, 8534 McCormick Blvd, Skokie, IL 60076; phone 708-679-3727 (Central Time Zone)--ask for Miriam. HARD-SECTOR and soft-sector discs for H/Z8s, '89s in bulk quantities at very low prices! "VERY NICE and HELP-FUL PEOPLE." (Do give them a call and mention us!)
- GOLDSMITH SURPLUS, 2107 N Adams/PO Box 18676, Indianapolis, IN 46218; 317-545-4747, ask for Phil or Eric. Dealers in "Almost Any Surplus Material You Have (or Need)"! (Please mention that you found them listed here!)
- HOYLE & HOYLE SOFTWARE, 111 Sparrow Drive, Isle of Palms, SC 29451. (Answer mailed enquiries only.) Their QUERY-III database runs on H8s thru Z120s. "REALLY GOOD GUYS"!
- LINDLEY SYSTEMS, 8139 E Mawson, Mesa, AZ 85207 -- phone: 602-380-9175. All kinds of neat-OH 8-bit software such as PC89LINK--lets you transfer 8-bit stuff to H/Z100s and peesees over a null-modem cable. Ask either Bob or Bill for a catalogue, they're Really Fine Fellows!
- MAGNOLIA MICROSYSTEMS, 2818 Thorndyke Avenue West, Seattle, WA 98199; phone 206-285-7266 (Pacific Time Zone). Ask for "Mark". Special memory upgrades and op-systems for H/Z89s & 90s. Trustworthy people.
- MICRO COMPUTER REPAIR SERVICE, 2308 Industrial Highway, Ste C Ann Arbor, MI 48104; phone 313-663-3646. D-DRIVE REPAIRS & SALES. Ask for Mike Morris, he's "A SUPER GUY"! (Tell him Lenny sent you.)
- MICRONICS TECHNOLOGY, Suite 159, 54 Dalrada Road, Montgomery, AL 36109; phone 205-244-1597 voice, 205-244-0192 bbs CTZ Darrell C Pelan, pres. Soft & Hardware, '89 hardiscs 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--"Dave". Colour and sound boards for H8, H89. Out of business, but willing to provide tech advice on their products. Dave's ANOTHER GOOD GUY!
- QUIKDATA COMPUTER SERVICES, Inc., 2618 Penn Circle, Sheboygan WI 53081; phone 414-452-4172--Henry Fale (Fah-lay) Prop. Mfgr, sales, service, 8-bit machine support & parts; publishes H-SCOOP Heath/Zenith user's newsletter, 24-hour H/Z user BBS. Ever busy but "A REAL GOOD GUY!"
- SIGMASOFT & SYSTEMS, 2433 Winterstone Drive, Dallas TX 75023-7818; 214-596-0116 (Central Time Zone)--Clay Montgomery--hardware/peripherals mfgr, software publisher, hardware & tech support, RAM drives, Hi-Res grafix addons for H/Z89s. Catalog & help: A *FANTASTIC* GOOD GUY!
- SKYCASTLE COMPUTER PRODUCTS, Box 1412, San Carlos, CA 94070; 415-254-3931 after 6pm Pacific Coast time--ask for Mike. Calligraphy-II and other FANTASTIC dot-matrix graphic printer software products. A REALLY, SUPER-GOOD GUY!
- TMSI/LEE HART, 323 West 19th Street, Holland, MI 49423
 616-396-5085 (evenings, weekends--usually) Their motto:
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We urge you to, if nothing else, ask for one of their sixtimes-a-year flyers. They have fans, power jacks, I-C sockets of all types & description, card-edge connectors, "D-Subs" connectors, coax connectors, modular cords, power supplies, a-c & d-c line filters, battery chargers, project boxes, tools, a-c & d-c relays, switches, capacitors, printer stands, disc drives (floppy & hard), printers, external drive cases, et cetera, and so on and mind-boggling on!

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