

FOR THE RECORD

by Ed Bittner Recording Secretary

The West Penn Users Group is alive and well! At the May meeting president Scott Coleman opened with a brief discussion of last months meeting and announced that wé will continue our monthly meetings throughout the summer (alive). Following was the , in the black, treasurers report by Jan Trayers (well), and Chuck Strink announced that the Basic Class is ready to move into Ext. Basic (both alive and well)! Cassette sales have not yet peaked as reported by the librarian Clyde Colledge but diskette sales have been brisk (at 10 for 8 dollars, DSDD), how could you resist supporting your club.

Some of the seemingly perennials bloomed again such as the possibility of a new meeting place, the inconsistency of the publication of Home Computer Magazine/Journal (better known as Dld UNfaithful), the need for more club members to submit articles for the newsletter and who is the most promising and most UNcommitting, Myarc or Corcomp for hardware advancement.

Clyde is diligently working to reduce the volume of the library, some 3000 programs, many of which are duplicates or updated versions of others with name changes. He should have a directory soon. Scott Coleman discussed the UNscrewing (secretary's note - I think the UN is UNappropriate) of the P.E. Box so as to make the fan blow in instead of out for quieter operation.

Two programs, the Popeye game and Chuck Strinks - The United Federation of Planets were demoed and three raffle prizes were awarded in a \$1.00 raffle. Classes in Basic (Chuck Strink) and assembler (Gene Kelly) were conducted immediately following the main meeting. John Willforth assisted Gene with a hardware modification of an archaic TV set by the insertion of an anti-zapper device (a coat hanger) into the rear of the set. We were not sure that it improved the output of the set but John now has a glowing personality.

UNrigorously submitted,

Scoops Bittner

P.S. Following a suggestion by the president, I will bring one case of cold pop (soda) to be sold for \$.50/can. Proceeds will, of course, go to the club. I will also bring one large quiet fan for the main meeting to be used also for the assembler class, it really gets cooking in there!. To the Editor from Ed Bittner

John, I have typed in several programs which you recently republished from other newsletters. Included are the Dis/Vars 80 to Merge conversion program as well as the one which is a titler for VCR tapes. I will bring several copies on disk of these programs to the meeting in June. I have also included on the disk my own version of Hangman written entirely in Basic.

Ed

TREASURER'S REPORT by JAN TRAYERS BALANCE IN THE TREASURY BEFORE MAY MEETING	91
RENT FOR MEETING ROOMS 10.00	
POSTAGE (NEWSLETTERS 2 MNTHS) 36.98	
46.98	
RECEIVED:	
NEW MEMBERSHIP 15.00	
DISK SALES 17.00	
RAFFLE	
52.00	
BALANCE AS OF JUNE 4th 1986, 458.9	93

MEETING SCHEDULE FOR THE SUMMER

JUNE, JULY, AND AUGUST MEETINGS WILL BE HELD AT THE NORWIN Y.M.C.A., AT THE OLD NIKE SITE, IN THE AREA OF NORTH IRWIN. ALL OF THESE MEETINGS SHOULD START AT 7:00 P.M. IT IS POSSIBLE THAT WE WILL HAVE DISK SALES, LIBRARY FUNCTIONS, AND EVEN A SWAP OR SALE PERIOD IN THE TIME FRAME OF 6:30 to 7:00. I THINK THAT WITH OUR TIGHT SCHEDULE FROM 7:00 to 9:45, THIS WOULD BE THE ONLY AVAILABLE TIME FOR THIS DESIREABLE FUNCTION OF THE CLUB. ALL THIS OF COURSE DEPENDS ON WEATHER SOME ONE CAN GET HOME FROM WORK, AND TO THE YMCA BEFORE 6:30.

JUNE 16-----JULY 21-----AUGUST 18-----AD INFINITUM !!!!!

Now I've got to tell you who are in need of a PEB, that a bare bones, 3 slot unit without a case, but complete in every other way, is available from the CAPTAIN'S WHEEL, J. JON GOULD, 17295 CHIPPENDALE AV., FARMINGTON, MN 55024 (612) 460-6348.

I put one of these units together in a couple of hours, being very cautious and pessimistic. I plugged the unit into my console (which has 32K of internal memory) and pushed a PASCAL card and a TI Disk Controller card into this very strange unit. The cards were just standing there floping about losely (no enclosure), and turned on the power. It fired up. I'm not going to spend too much space here, but if one of the ones that I ordered the next day, arrive before the meeting, you'll see it there. GAZOOKS, no firehose, no fan, and even with two ½ height drives, and it's own internal p/s, it can't weigh more than 12 pounds. OH YEH, the price......\$35.00. By the way, Jon has other items that might interest you, a 32K memory unit, with switch selectable (optional) 8K blocks, up to 24K of additional memory. Price \$49.00. Interested??????

Well if you are, you had better call or write (if your the patient sort), but Jon tells me that when the circuit cards for the 3 slot expansion are gone, there will be no more. WHAT! He does hint that there is something better coming. But why take the chance, order yours TODAY.

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Purpose	
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to the PUGET SOUND 99°ERS who printed (heet in their APPIL 85 Newsletter.	
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0 U I C	K REFERENCE	8 H E E T
	PATTERN IDENTIFIER	FIRST COMMAND OR STATEMENT
TRANSPARENT I BLACK 2 MED. GREEN 3 LT. GREEN 4 DARK RLUE 5 LT. JLUE 6 DK. RED 7 CYAN 6 MED. RED 9 LT. RED 10 DK. YELLOW 11 LT. YELLOW 12 DK. GFEEN 13 MAGENTA 14 GRAY 15 WHITE 16		OPEN I CLOSE 2 INPUT 3 PRINT 4 RESTORE 5 OLD 5 SAVE 7 DELETE 9 EOF SECOND TYPE OF ERROR DRIVE NOT FOUND 1 DEVICE OF FILE WRITE PROTECTED 2 BAD OPEN ATTRIBUTE 3 ILLEGAL OPERATION 4 OUT OF SPACE 5 ATTEMPT TO READ PAET END OF FILE 6 DEVICE ERROR OF MARDWARE ERROR 7 FILE ERROR - File OF
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CODE CODE CODE CODE CODE 3Ø 48 45 A 23 31 49 1 46 33 32 58 2 47 C 84 33 ! 51 3 49 D 65 34 * 52 4 47 E 86 35 # 53 7 7 F 87 34 * 52 4 47 E 86 35 # 53 7 7 F 87 36 # 53 7 72 H 87 37 # 55 7 72 H 87 39 * 57 7 74 91 91	CODE CODE R PP Clid T 180 d 117 u T 181 118 v u 182 d 117 u U 182 4 119 u u 182 x u 184 h 121 y x 185 i 122 x u 186 j 123 (22 x 186 j 123 (23 (127 x 186 j 123 (127 123 (187 k 127 123 123 123 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 <td>CODE CODE 133 GO 158 NEXT 134 GOTO 151 READ 135 GJEUB 152 STOF 134 RETURN 151 DELETE 137 DEF 154 REM 138 DIM 155 ON 137 EF 154 REM 138 DIM 155 ON 137 END 154 REM 148 FOR 157 CALL 141 LET 158 OPTION 142 BREAK 157 OPEN</td>	CODE CODE 133 GO 158 NEXT 134 GOTO 151 READ 135 GJEUB 152 STOF 134 RETURN 151 DELETE 137 DEF 154 REM 138 DIM 155 ON 137 EF 154 REM 138 DIM 155 ON 137 END 154 REM 148 FOR 157 CALL 141 LET 158 OPTION 142 BREAK 157 OPEN
40 (5E : 75 K 92 41 59 1 76 L 93 42 68 (77 M 94 43 61 = 78 N 95 44 62 > 79 0 96 45 63 7 60 9 97 46 64 9 1 8 98 47 64 9 1 8 98 47 64 9 1 8 98 47 64 9 1 8 98 47 64 9 1 8 98 47 64 9 1 8 98 48 64 9 1 8 98 49 64 9 1 8 98 40 64 9 1 8 98 47 64 9 1 8 98 48 64 9 1 8 98 49 64 9 1 8 98 40 64 9 1 8 98 47 64 9 1 8 98 48 64 9 1 8 98 49 64 9 1 8 98 40 64 9 1 8 98 41 64 9 1 8 98 42 64 9 1 8 98 43 64 9 1 8 98 44 64 9 1 8 98 45 64 9 1 8 98 46 64 9 1 8 98 47 64 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	\ 109 m 126 ~] 110 n 127 DE ^ 111 o 126 . 112 p 125 EL . 113 g 138 :: a 114 r 131 ! b 115 s 132 IF 	143 UNBREAK 168 CLOSE 144 TRACE 161 SUJ 145 UNTRACE 162 DISPLA SE 146 INPUT 163 IMAGE 147 DATA 164 ACCEPT 148 RESTORE 165 ERROR 149 RANDOMIZE HINTERSTORE 165 ERROR 149 RANDOMIZE
SET ACCII CODES 4 1	FCTN 7	* * UP
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	FCTN 4 FCTN 1 FCTN 2 FCTN 5 FCTN 5 FCTN 5 FCTN 5 FCTN 4 FCTN 6 ENTER FCTN 6 ENTER FCTN 9	(B, 4) $(-4, 4)$ $(-4, 4)$ $(-4, 6)$ $(-4, 6)$ $(-4, 6)$ $(-4, 6)$ $(-4, -4)$ $(B, -4)$ $(B, -4)$ $(B, -4)$ $(B, -4)$
15 144-151\BASIC + 16 152-159/ONLY +	EXTEND	ED BASIC STATEMENTS
CONTROL CODES ASC PRESS COMMENTS 1 CTRL A START OF HEADI 2 CTRL B START OF TEXT 3 CTRL C END OF TEXT 4 CTRL D END OF TRANS. 5 CTRL E INGJIRY 6 CTRL F ACMNOWLEDGE 7 CTRL G BELL 6 CTRL H DACKSPACE 9 CTRL I MORIZ. TAB 10 SHFT/ENTR LINE FEED 11 CTRL K VEFTICAL TAB 12 CTRL L FORM FEED	+ ACCEPT DISTAN - + CHAR END CHARPAT EFR NG + CHARPAT EFR CLEAR GCHAR CLOSE GCSUS COINC GCTO COLOR HCHAR DATA IF THE DELSPRITE INIT DISFLAY JOYST COLOR	CE KEY ON WARNING SCREEN LET OPEN SOUND LINK OPTION BASE SPSET LINPUT PATTERN SPRITE LOAD PEEK STOF LOCATE POSITION SUS MAGNIFY PRINT MOTION RANDOMIZE N NEXT READ ON BREAK REM ON ERROR RESTORE ON GOSUS RETURN ON GOSUS SATURN ON GOTO SAY
13 ENTER CARRIAGE RETUR 14 CTRL N SHIFT OUT	ADDRESS PARAMETE	RS DESCRIPTION
10 CIRL U DRIFIIN 16 CIRL P DATA LINK ESCA 17 CIRL Q DEVICE CONTROL 18 CIRL R DEVICE CONTROL 19 CIRL S DEVICE CONTROL 28 CIRL T DEVICE CONTROL 21 CIRL U NEG. ACKNOWLED 22 CIRL V SYNCHRONOUS ID 23 CIRL W END OF TRANSMI 24 CIRL X CANCEL	PE + -32748 POKE 8-2 1 + -31786 POKE 192 2 + -31884 PEK X,Y 3 + POKE X,Y 4 + -31886 POKE 14 VGE + POKE 32 POKE + POKE 44 S + -31868 POKE 4	55 RATE of FLASH of CURSOR DISABLE SPRITE action Returns to Title Screen DISABLE QUIT KEY(Fctn =) DISABLES SOUND DISABLES AUTOSPRITE MOTION Goes to Console BASIC after 'NEW' is typed
25 CTRL Y END OF MEDIUM 24 CTRL 2 SUBSTITUTE 27 CTRL 5 ESCAPE 28 CTRL M FILE SEPARATOR 29 CTRL 9 GROUP SEPARATOR 30 CTRL 9 GROUP SEPARATOR 31 CTRL 9 UNIT SEPARATOR 127 SHIFT V DELETE CHARACT	+ -31860 POKE 8 + -3187E POKE 8-2 + -31856 POKE 8-2 + -31951 POKE 8/1 R + -31962 POKE 2 OR + -31962 POKE 2 CR + -31952 PEEK A, E, ER + -28672 PEEK A	Runs DSK1.LOAD G Highest # SPRITE in motion 255 Disables Disks.NEW fre.mem 255 Unprotects/Protects program Returns to TITLE SCREEN 5 Runs DSK1.LOAD C.D Recovers program with LOAN 96=Speech Syn. Ø=No Sweec 1555555555555555555555555555555555555

TOOL SHED DEMOS (Reprinted From SUBFILE99) CORECOMP'S DSDD Card adds some additional commands to the TDOL SHED of the TI-BASIC programmer. These added commands enable the programmer to do: PAGE FLIPPING

WINDOWING ACCESS TO VOP WRITE ONLY REGS PEEK AND POKE COMMANDS IN BASIC

Included here are a few of these programs that will demonstrate these features. NDTE: These are all written in BASIC, not XBASIC!

100 REM ************* 110 REM 120 REM 130 REM Ż BLOCK MOVE 2 Come And Get It! 140 REM ************* 150 REM 160 REM REQUIRES *************** 100 REM 170 REM CORCOME CARD 110 REM 180 REM 40 COL DISPLAY 120 REM Ż. 190 CALL CLEAR 130 REM 140 REM 200 B\$=" **************** 210 P\$=" 220 F=1 ++++ " 150 REM 230 T=550 240 S=33 REQUIRES 160 REM 170 REM CORCOMP CARD 180 REM 250 605UB 420 260 F=X1 270 T=F-15 \$ SET 40 & CLEAR \$ 190 REM 200 REM 210 CL\$=" 280 S=-1 220 CL ==CL ==CL ==CL ==CL == 230 CALL WRTRG(7,31) 240 CALL WRTRG(1,240) 290 GOSUB 420 300 F=X1 310 T=F-500 250 FOF X=0 TO 3 320 S=-33 330 BOSUB 420 260 VDPA=X#240+1 270 CALL VPDKE (VDPA, 96, CL\$) 280 NET X 340 F=X1+33 350 T=F-19 290 REM 360 S=-1 370 GOSUB 420 # PRINT LINES # 300 REM 310 REM 380 GOTO 220 320 FOR X=0 TO 23 390 REM 330 VDPA= (X\$40) 400 REM **#BLOCK ROUTINE** 340 MS=STR\$ (X+1) 410 REM 350 CALL VPOKE (VDPA, 96, H\$) 420 FOR X=F TO T STEP S 360 VDPA= (X\$40)+5 430 X1=X 370 MS="...1....2... 380 CALL VPOKE(VDPA,96,MS) 390 NEXT X 400 GOTD 400 440 X2=X+33 450 X3=X+66 460 X4=X+99 470 X5=X+132 480 X6=X+197 490 CALL VPOKE (X1, 96, B\$; X2, 96, P\$; X3, 96, P\$; X4, 96, P\$; X5, 96, P\$; X6, 96, B\$) 500 NEXT X 510 RETURN 100 REM *********** 110 REM 120 REM 130 REM I PAGE DEMO 140 REM 150 REM *********** 100 REM *************** 110 REM 160 REM 170 REM 120 REM "SPRITE" DEMO REQUIRES t CORCOMP CARD 130 REM 140 REM 150 REM 160 REM *************** 180 REM 190 CALL CLEAR 200 FOR X=40960 TO 41728 STEP 32 REQUIRES 170 REM CORCOMP CARD 180 REM 190 CALL WRTRG (7, 31) 200 CALL WRTRG (1, 240) 210 CALL WRTRG (1, 240) 220 FOR X=1 TO 957 220 FOR X=1 TO 957 230 CALL VPOKE (X, 96, " ->") 280 CALL MOVEN (3,40960,0,768) 290 CALL SOUND (150,1000,0) 300 CALL KEY (0,K,S) 310 IF S=0 THEN 300 240 NEXT X 250 CALL SOUND (150, 1000, 0) 260 CALL KEY (0, K, S) 270 IF KEY=0 THEN 260 320 CALL CLEAR 330 6010 230 280 GOTO 220

THE ONLY WAY THAT WE HERE IN THE WEST PENN 99'ERS CAN HELP THOSE OUT THERE WHO CAN'T FIND THEMSELVES WITH THEIR TI-99, IS FOR YOU TO A S K ! WE CAN N O T READ YOUR MIND. YOU HAVE THE NAMES OF ALL OF THE OFFICERS AND THEIR PHONE #'S. I'VE NOT HEARD OF ANY ONE BEING REFUSED AS-SISTANCE. WE ALSO DO NEED YOUR INPUT TO IMPROVE.

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GETTING THE MOST FROM YOUR CASSETTE SYSTEM BY MICKEY SCHMITT NUMBER 2 LOADING AND SAVING PROGRAMS

WHILE LOADING AND SAVING PROGRAMS WITH THE USE OF A CASSETTE RECORDER IS NOT A DIFFICULT PROCESS IN ITSELF - READING AND UNDERSTANDING THE INSTRUCTIONS FOR THE VERY FIRST TIME CAN BE QUITE CONFUSING. WITH THAT THOUGHT IN MIND I HAVE TRIED TO KEEP THE INSTRUCTIONS AS SIMPLE AS POSSIBLE.

INSTRUCTIONS FOR LOADING PROGRAMS:

- 1. TYPE: OLD CS1
- 2. THEN: PRESS ENTER

3. FOLLOW THE DIRECTIONS AS THEY APPEAR ON YOUR MONITOR OR TV SCREEN:

- 3.1 * REWIND CASSETTE TAPE CS1 THEN PRESS ENTER
- 3.2 * PRESS CASSETTE PLAY CS1 THEN PRESS ENTER

3.3 COMPUTER DISPLAYS MESSAGE:

- * READING COMPUTER DISPLAYS MESSAGE: 3.4
- * DATA OK
- 3.5 * PRESS CASSETTE STOP CS1 THEN PRESS ENTER

4. WAIT FOR THE FLASHING CURSOR TO APPEAR IN THE LOWER LEFT-HAND CORNER OF YOUR MONITOR OR TV SCREEN

- 5. TYPE: 6. THEN: RUN
- PRESS ENTER

INSTRUCTIONS FOR SAVING PROGRAMS:

- 1. TYPE: SAVE CS1

2. THEN: PRESS ENTER 3. FOLLOW THE DIRECTIONS AS THEY APPEAR ON YOUR MONITOR OR TV SCREEN:

- 3.1 * REWIND CASSETTE TAPE CS1 THEN PRESS ENTER
- 3.2 * PRESS CASSETTE RECORD CSI THEN PRESS ENTER
- COMPUTER DISPLAYS MESSAGE: 3.3
 - * RECORDING
- 3.4 * PRESS CASSETTE STOP CS1 THEN PRESS ENTER

4. YOUR PROGRAM IS NOW SAVED - BUT YOU SHOULD GET INTO THE HABIT OF CHECKING ALL YOUR PROGRAMS TO BE SURE THAT THEY WERE SAVED WITHOUT ERROR.

5. CONTINUE TO FOLLOW THE DIRECTIONS AS THEY APPEAR ON YOUR MONITOR OR TV SCREEN:

- 5.1 COMPUTER DISPLAYS MESSAGE:
 - * CHECK TAPE (Y OR N)?
- 5.2 TYPE: ·۲
- 5.3 THEN: PRESS ENTER
- 5.4 * REWIND CASSETTE TAPE CS1 THEN PRESS ENTER
- 5.5 * PRESS CASSETTE PLAY CSI THEN PRESS ENTER
- 5.6 COMPUTER DISPLAYS MESSAGE:
 - * CHECKING
- COMPUTER DISPLAYS MESSAGE: 5.7 * DATA OK

6. YOUR PROGRAM IS NOW SAVED - SAFELY AND WITHOUT ERROR.

THAT'S ALL THERE IS TO IT! NEXT MONTH'S TOPIC WILL BE KEEPING YOUR CASSETTE TAPES AND PROGRAMS ORGANIZED. IF YOU NEED ANY HELP UNDERSTANDING HOW TO LOAD AND SAVE PROGRAMS - JUST GIVE ME A CALL (412-335-0163) AND I'LL TRY TO HELP.

MICKEY SCHMITT

ERROR CODE LISTING

REPRINTED FROM FEBRUARY, 1986 ISSUE OF HOCUS NEWSLETTER

EXTENDED BASIC ERROR CODES	EDITOR/ASSEMBLER E XB ERROR EG	ERROR CODES QUATES	EXECUTION ERRORS
10 Numeric overflow 14 Syntax Error 16 Illegal after Sbrtn 19 Name too long 20 Unrecognized Char 24 \$/# Mismatch 28 Improperly used name 36 Image error 39 Memory Full 40 Stack Overflow 43 Next without For 44 FOR-NEXT Nesting 47 Must be in Sbrtn 48 Recursive Sbrtn CALL 49 Missing SUBEND 51 RETURN without GOSUB 54 String Truncated 56 Speech \$ too long 57 Bad Subscript 60 Line not found 61 Bad Line # 62 Line too long 67 Can't CONtinue 69 Command Illegal in Prgrm 74 Bad Argument 78 No Program Present 79 Bad Value 80 Nil 81 Incorrect Argument List 82 Nil 83 Input Error 84 Data Error 97 Protection Violation 109 File Error 135 Sbrtn not found	XB ERROR EG ERRND >02000 2 ERRPSYN >03000 3 ERRPSYN >03000 3 ERRPSYN >03000 3 ERRPSYN >03000 4 ERRNDS >05000 5 ERRNDS >05000 6 ERRNDS >06000 8 ERRDBE >08000 8 ERRNDF >00000 10 ERRNDF >00000 12 ERRNDF >00000 13 ERRNSD >00000 13 ERRSD >0000 14 ERRSD >0000 15 ERRNDF >1000 16 ERRNS >1100 17 ERRENS >1400 20 ERRESS >1400 20 ERRESS >1400 22 ERRENN >1700 23 ERRNDN >17000 25 ERRCLP >1800 <	AUATES Numeric Overflow Syntax Error Ill. after Sbprgm Unmatched Quotes Name too long \$/# Mismatch Option Base Error Improperly used name Image Error Memory Full Stack Overflow Next without For FOR-NEXT Nesting Must be in Sbprgrm Recursive Sbprgrm Missing SUBEND RETURN without GOSUB String Truncated Bad Subscript Speech \$ too long Line not found Bad Line Number Line too long Can't Continue Illegal in Program Only legal in Program Bad Argument No Program Present Bad Value Incorrect Argument List Input Error Data Error File Error I/O Error Subprogram not found Protection Violation Unrecognized character Numeric Overflow String Truncated No Program Present Input Error	0-7 Standard I/O 08 Memory Full 09 Incorrect Statement 0A Illegal Tag 0B Checksum Error 0C Dup. Definition 0D Unresolved Ref. 0E Incorrect Statement 0F Program not found 10 Incorrect Statement 11 Bad Name 12 Can't Continue 13 Bad Value 14 Number too big 15 String/Number 16 Bad Argument 17 Bad Subscript 18 Name Conflict 19 Can't do that 14 Bad Line Number 15 FOR NEXT Error 10 File Error 11 File Error 12 Input Error 15 Data Error 20 Line too long 21 Memory Full 22 Unknown Error Code ************************************
TI BASIC ERROR CODES PERTAINI	NG TU DISK SYSTEM	TI WRITER ERROR CODE	5
<pre>#: FIRST # SECOND # O: OPEN Can't find speci 1: CLOSE Disk or program 2: INPUT Bad Open Attribu 3: PRINT Illegal Operatio 4: RESTORE Disk full or too 5: OLD Attempt to read 6: SAVE Device Error 7: DELETE File Error 9: EOF</pre>	fied Disk Drive is Write Protected te many files opened past EOF	0 - Indicates Disk OR: Diskette no 6 - No Disk in Driv OR: Drive is no 7 - No Disk in Driv 00 - Illegal use of 02 - No file in Disk 04 - Disk is full 06 - PrintF Command interrupted; OR while Red Light 07 - Invalid Filenam or using invali 15 - Invalid Disk Dr	Controller not on; t Initialized e; DR: Is upside down; t turned on e LoadF, PrintF: OR: ette with Filename used in progress was : Disk Door was opened was on e (I.E. Name too long d characters) ive Number, or Device
DISK MANAGER ERROR CODES		I/O ERRORS	
<pre>#: FIRST # SECOND # 1: OTHER Rec not found 2: SEEK/STEP Cyclic Redunda 3: INPUT Lost Data 4: PRINT Write protect 5: NIL Write fault 6: NIL No Disk Drive 7: NIL Invalid input 8: NIL 9: Special Error Code for</pre>	ncy	 # FIRST # SECOND 1: OPEN Device 2: CLOSE Write F 3: PRINT Invalid 4: RESTORE Out of 5: OLD EOF 6: SAVE Device 7: DELETE File/Da 	# not found rotected I/O Command space Error ta Mismatch

Special Error Code for Comprehensive Test

INSTALABEL		
There are many times when I need to make	multiple copies of a mailing	FLOPPY DISK ENCLOSED
label. For example, I had to make a bunch	of return address tabels.	DO NOT XRAY
Another time there was a mistake in a manic boo	ok that I published and I had	
to put an error notice on the front page. What	ever reason you have, this	100 : **********************************
simple program will do the trick. After you in	nout the information a number	120 1 * DON'T LABELS *
will appear on the screen counting the labels a	s they're made. Every time a	130 ! * BY: Ron Rutledge *
label is made a been will sound. I did this	because if I leave the room.	140 ! X Lentral Iowa UG X
the beens will tell me when they're done. If y	ou don't like the heen just	160 ! ******** *********
turn down your volume.	the the true top just	170 !
Bruce Kalver		180 ESC\$=CHR\$(27)! ECCAPE CDDE
		190 EMPS=ESCS&"E"
100 CALL CLEAP		EMPHASIZED PRINT
110 INPIT PMANE		200 NDR\$=ESC\$&"W"&CHR\$(0)!
120 INDUT PARADECC AA		NUKHAL PKINI 210 FNIS=FSCSS"W"SCHRS(1)!
120 INFUT ADDRESS: :AP 120 INDUT 901TV CTATE 710.9.04		ENLARGED PRINT
130 INFUT CLIT SIMIC, LIF: (C)		220 UDN\$=ESC\$&"-"&CHR\$(1)!
INC INCUT NUMBER OF LABELS: "IL		TURN UNDERLINE UN 220 HDEK=ESCKUH-MUCHRK(0)
150 UPEN #1: "PIU" 160 FOR V-1 TO 1		TURN UNDERLINE OFF
IDV TUK ATI TU L		240 OPEN #1: "PID"
1/U DISPLAY AT(TU, 4)BEEP:USING "##":I		250 PRINT #1:EMP\$&ENL\$&UDN\$&
180 PRINT TI:NS		260 PRINT #1:NOR\$&" FLOPPY D
190 PRINT 01:A\$		ISK ENCLOSED"
200 PRINT #1:C\$		270 PRINT #1:ENL\$&UDF\$&"DD N
210 FOR Y=1 TO 3		UI XKAY" 280 PRINT #1+ + + +
220 PRINT #1:* *		290 CALL KEY(0,R,S)! A
230 WEXT Y		RE YOU PRESSING A KEY?
240 NEXT X		300 IF 5=0 IHEN 250 !
250 PRINT "FINISHED"		310 CLOSE #1
260 PRINT		320 END
IK-WRITER REVISION JACKSON COUNTY	99ers VIA ATLANIA 99/44 U.	5.
This a modification to the LO	AD program that will cut	t down the wait when
switching from the EDITOR to the F	ORMAITER. This wait is can	used by the assembly
language program being loaded b	ack into the computer when	the load program is
if you haven't done something	like turn off the compute	er or run some other
program. You can convert the LOAD	program by replacing li	ne 100 and adding
lines 102, 104, and 108 as shown	below. Line 100 checks to	see if the assembly program If it is
in memory, the REF/DEF table	and last free address are	loaded, and you can
access the assembly code as usual.	. In plain talk, it will s	ave a whole bunch of
time.		
100 CALL CLEAR :: CALL INIT :: CAL	L PEEK(-2043, A, B):: IF A	84 DR 8<>75 THEN 108
102 CALL LDAD(16360,85,8	34,73,76, 73,84,250,212	2,70,79,82,77,65,84,2
104 CALL LOAD(8196.63.232):: GOTO	110	
108 CALL LOAD("DSK1.WRITER")		
Basic Basics	60 FOR A=1 TO 28	Line 60 loops thru to use 28
	70 CALL SPRITE(#A,96,INT(A/3)+3,	sprites and line 70 calls the
	00 104 AVINT/DNDVA 51 0 05	envita in the chang of our

Charles Strink West Fenn Users Group

This month it is time for some Sprite fun, but to enjoy the following program you must have Extended Basic. Sorry, but there are no sprites available in basic. First the program I like to call; ------BUTTERFLIES-------10 CALL CLEAR 20 CALL CHAR(96, "000B0B1C7F1C08 08") 30 RANDOMIZE 40 FOR I=2 TO 16 50 CALL SCREEN(I) 60 FOR A=1 TO 28 70 CALL SPRITE(#A,96,INT(A/3)+3, 92,124,A*INT(RND*4.5)-2.25 +A/2*SGN(END-.5),A*INT(RND*4.5)-2.25+A/2*SGN(RND-.5)) 80 NEXT A 90 NEXT I 100 GOTD 40::END

Now, just what does all this do? Lines 10 and 20 clear the screen and redefine character 96.

Line 30 makes sure each sprite direction of travel and speed is truly random.

Lines 40 and 50 cause the screen color to loop thru all 15 colors.

Line 60 loops thru to use 28 sprites and line 70 calls the sprite in the shape of our redefined character, then sets it into motion in a different direction and speed each time it loops thru.

Line 70 starts the whole process over again.

This program shows just how much action and color car be packed into a few short lines when it is run on the 99/4A WONDER MACHINE.

Until next time.....

FOR VAPIOLI- TYPES OF 1 ADCI C 10 ! . EH. GOOD LABEL PI-IN'ER 20 RESIDE THE FUNCTION I USES, THE'L IS MUCH TO BE LEARNED FROM THI 30 ! THIS : WAS TAKEN FROM THE MAY 1986 ISSUE OF THE R.O.M. NEWSLETTER. LABEL 100 1 110 Version XB.3.0 120 ! By Jim Swedlow 130 ! 22 Mar 86 Phil Barnes 140 1 Based on a program by 145 150 GOTD 180 :: IN\$.55\$.D5\$.P1\$:: DIM Y\$(4).A\$(5):: C\$.D\$:: DIM F\$(144).T\$(144):: R.J.D.E\$, I, C. 2 :: CALL KEY 160 :: " FI- CLASS", MAGNETIC MEDIA", DO NOT BEND & DO NOT X-RAY. DO NUI EXPOSE TO MARE ISM. 170 DATA ,Your Name,Street Address,"City, CA ZIPCD", 13. 0=1 :: CALL CLEAR :: FOR J≈0 TO 14 :: CALL COLDR(J,16,0):: NEXT J :: CALL SC FEF (5) :: ! 2P-170 ES=CHR\$ (27) | ESCAPE 200 DS\$. \$1 G" DOUBLE STRIKE C\$=L+R\$(15)! CONDENSED C\$=C+R\$(14)! DBL WIDTH PT\$=C+R\$(18)! PICA SUPERSCRIPT 140 F.S-F . 'S"&CHR\$ (0) ! - LS=is 3"&CHR\$(12)! 12/144 INCH · PI\$=PI\$&(\$1.' \$:: DS\$=DS\$&C\$:: 55\$=5'.5' \$:: Y\$(@)="DF" :: Y\$(2)="DV" :: Y\$(3/="IF":: Y\$.4/="IV":: D\$="D\$K!":: C\$= 280 DPEN #1:"PID":: DISPLAY AT(3,9):"LABEL 3.0": :"Check the position of the 310 1 . J LAY AT(10, 2): : :" Labels/Disk: ":B:" Drive: ":D\$:" Comm ent: : : TAP(6):C\$: : 320 G(540 12 355 300 4. EPT AT (15,6) SIZE (-25) BEEP: C4 :: GOTO 320 300 N FF-1F (15,6)512(-20)BEEP(C*1: GOID 320 370 DN FF-1F 580:: C=0 :: DISPLAY AT(10,0):: DISPLAY AT(20,0):"Initializing" :: DPEN *::** .; INPUT , RELATIVE.IN E+4-. 380 IN+-: #2:F\$(C),I,I,I :: T\$(C)::**FE "&STR\$(I) 390 DISPLAY AT(22,0):F\$(C); ";T\$(C):: IF C=127 THEN 420 ELSE INPUT #2:F\$(C+0), 10 400 IF F\$(C+a)="" THEN IF C>5 TH + 420 ELSE C=C+a :: GOTD 390 410 I=ABS(I):: C=C+2 :: IF I=5 :+ T\$(C)="Prog" :: GOTO 390 ELSE T\$(C)=Y\$(I)&ST R\$(J):: GOTO 390 420 CLOSE #2 :: ON ERROR STOP :: DISPLAY AT(20,0):"Printing": : : :: FOR B=0 TO B :: J=0 :: D=8 :: E\$=" 450 J=J+24-64 (D=10) :: IF C>J THEN D=10 :: + 1. # #2: : :: 60T0 440 ELSE PRINT # 2: INS 4~ NEXT B :: P=B-0 :: FOR I=0 TO C :: T\$(I),F\$(I)="" :: NEXT I :: GOTO 320 470 IF I=4 ... N REST.A. ELSE RE! UHI 170 480 FOR C=@ [0 5 :: 4++[A\$(C):: NF: C :: D=10 :: GOSUB 570 400 1. B 540 :: DN I up 10 470,500,310,470,530,510,600 : FF C=3 TD 5 :: A\$(C)="" :: NEXT C :: D=3 :: GDSUB 570 : FOR C=3 TD 5 :: ACCEPT AT (C+9,2)SIZE(-28, RC+P:A\$(C):: NEXT C :. ACCEPT AT (C+1,29,SIZE(-2),21, DATE (DIGIT)BL;: E\$:: IF E\$="" THEN 520 ELSE D=V : L\$:: IF D = ** N 490 ELSE *. 530 DISPLAY AT (20, 2): "Printing :: FOR I=2 TO D :: FOR C=2 TO 5 :: PRINT #2:PI\$: As(()):: NEXT C :: PRINT #0:IN\$: :: PRINT #0:CHR\$(27)&CHR\$(10):: NEXT I T.T.5." 490 FT 51'' 490
F4 [1-P:AY AT(20,0)BEEP:"<A>ddress <P>rint labels":"<C>ustom <M>odify defaul ts":"(D>isk <Q>uit":"<W>ar::'_' 550 CALL KEY (3, I, C) :: IF C(2 T+ 550 ELSE IF I=13 OR I=32 THEN I=80 560 I=PDS(ACDWRMO, CHPS(), 2);: IF I TH: CH: KEY(S,C,C):: IF B THEN DISPLAY A T(20,2):: :: :: :: RET IN ELSE RETURN ELSE ... 570 FOR C=D TD 5:: DISTLAY AT(15,0): :">";A\$.C::: NEXT C :: DISPLAY AT(15,0): :" "The mail labels: ";D :: RETURN "< :: *:AY AT(10,0)BEEP:D*: " Could not be accessed" :: ON ERROR 590 :: CLOSE #2 570 FOR ERROR STOP :: RETURN 570 CALL CLEAR :: CLOSE #4 :: END

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WAS TAKEN FROM THE CENT 10 THE FOLL WING PROGRAM VALLEY 99' FRS USER G ROUP AN W. MOLIFIER BY: 20 THE MULTER AT WEAT ROUP IN WILL A'H FOR MORE IT I DALVES AND FOR SCREEN COLOR CHA TELENDING ON TIME ITY OF THE I NGES 120 10/25/85 130 10/25/85 140 THE THE DISKS 160 THE LL IS - I UK DOSD 170 LS=CHR\$ (10) !LIN FEED CHARACTER 180 THIL CLEAR 190 LIST-AY AT(3,1): "WHI'H DRIVE IS DISK": 200 115 AV AT(5,1): "N (1-6) 1" . 1. AU HT AT(5,1): "N (1-6) 1" 10 - 40 FT F H 10 - 11 / WE LDH E (* 123436 / 512E (- 1718 ... 41 * 1... * &STR\$ (A) &".", INPUT, RELATIVE, INTERNAL 240 IF J+K. *** **** P\$= **** 250 IF J+K. *** *** P\$= **** IF J+K: 1:= 1.8 . P\$=":-: 14 IF P\$=' : : : : INEN CALL SUREEN(4) ELSE IF P\$="DSSD" THEN CALL SCREEN(6) ELSE CA LL SCREEN(14) TO OPEN #T: "PIO", OUTPUT !ENTER PRINTER CHARISTICS WITHIN THE QUOTES V TAL LLEAR 300 1:3-1.44 AT (4,1); "DISKNAME: ";A\$ 310 7: 41 AY AT (6,7);P\$ 320 7: 41 AY AT (6,7);P\$ 320 7: 41 AY AT (6,7);P\$; 320 7: 41 AY AT (6,7);P\$;L\$;L\$;C+5:27)&C+45 71);A\$;L\$;L\$;TAB(17);P\$;L\$;L\$ LS INSERT AS MANY IS CHARAC TH. AS YOU LIN FOR THE LABLE 330 CLOSE #1 :: u # #? 340 160T0 170 ! RLM : "+ FIRST "I" IF YOU WANT TO MAKE A LOT OF LA AND WANT TU THE U+- +U -NCE BELOW. BELS

PRINTING FLASHER

REM REMOVE REMARKS	BEFOR	USING.	LINE	140	ASSIGNS	COLORS	TC
CHARACTE	ERS.						

- 110 CALL SCREEN(5)
- 120 FOR I=65 TO 90 :: CALL CHARPATUI,AS) :: CALL CHAR(1+32,AS) :: NEXT I
- 130 CALL CLEAR
- 140 FOR I=9 TO 12 :: CALL COLOR(I,5,16):: NEXT I :: FOR I=5 TO 8 :: CALL COLOR(I
- ,16,5):: NEXT I

380 CALL CLEAR :: STOP

- 15 AS="I LOVE YOU"
- 160 B\$="i love you"
- 170 DISPLAY AT(11,11):A\$:: FOR I≈1 TO 50 :: NEXT I :: DISPLAY AT(11,11):B\$:: F OR 1=1 TO 50 :: NEXT I :: GOTO 179





"It's a book, Kevia. It has words and pictures in it...you know...like on your computer."

Single-board nuclear reactor supplies standby power for 12 years

Now available on a full-length plugin card for IBM PC or compatible computers, the QBX-1 add-on nuclear-reactor card provides backup power for as long as 12 years. When the card senses a power failure, explosive bolts eject moderator and control rods from the reactor's interior within 20 μ sec, bringing the reactor to its fully rated output of 20 kW in less than a millisecond. Over its 12-year active life, the reactor's power decreases by 25% to 15 kW. Integral heat fins provide convection cooling of the reactor's 500W power dissipation while the reactor remains in its standby condition. If your computer's fans can't furnish 400 ft³/sec of forced air for cooling, consider buying the manufacturer's heavy-water cooling jacket and stainless-steel pump module, which fit conveniently under a desk or workbench. Latches on each side of the reactor module let you quickly exchange the radioactive core,



Market reactor supplies CPU power during power failure or other power emergencies. The **market also** glows in the dark (as will you), which makes it easy to find your computer.

should you need to replace it. An optional circular viewing port of lead glass lets you check the reactor's internal mechanical assemblies.

To protect users from undue radiation, each reactor includes a shielding kit comprising five self-stick lead plates and 20 radiation-monitoring film badges. The lead plates mount inside your computer's enclosure and reduce the gamma rays that cause soft errors to floppy-disk and RAM data. For further protection, consider buying the manufacturer's 200-ft extension cords for keyboards and monitors.

Because the reactor can supply more than enough power for your computer, you can sell excess power to your local utility company. An add-on phasing and metering kit (PMK-1) lets you connect your reactor to the local power grid. Each PMK-1 includes standard powersale contracts and Rural Electrification.Board rules and regulations.

Although not required in all localities, each reactor card package includes a standard 23-volume siteevacuation plan. The plan includes blank forms for you to fill in the name and address of your reactor site and then mail to the Nuclear Regulatory Commission. As an option, the manufacturer supplies the plan on 12 MS-DOS-compatible disks in Wordstar format. Userfriendly templates let you type in information so that your word processor can create a complete, printed document.

Reactor prices start at \$2.3 million (1). Delivery, seven years ARO. —Regus Patoff

Luminescent Electronic Products Inc, Box U-235, Trinity Site, NM 43210. INQUIRE DIRECT

I wanted to do a product review this month, but because of time restraints, was unable to do so, so when I received this review from BOB SADUSKY, I jumped on it.

WEST PENN 99'ERS % John F. Willforth R.D.#1 BOX 73A Jeannette, PA

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