
IM-1 MILLION
IN A

JAN 1983

PAGE 1

WELCOME TO THE ALL NEW IM-1 IN A MILLION COMPUTER CLUB AND NEWS-LETTER. WITH THIS NEWSLETTER WE HOPE TO IMPROVE YOUR ABILITIES AND CAPABILITIES WITH THE IM-1.

ALL THE WORK ON THE NEWSLETTER WILL BE DONE ON AN IM-1 TO SHOW YOU WHAT CAN BE DONE. JUST WRITE AND WE WILL TELL YOU HOW WE DO ANYTHING THAT YOU SEE IN THE NEWSLETTER.

WE WANT YOU TO WRITE TO US AND TELL US ABOUT YOUR NEEDS AND WANTS CONCERNING THE IM-1 (SORRY WE DON'T TAKE CARE OF THE PROBLEMS OF LIFE). PLEASE USE THE FORM AT THE BACK OF THIS ISSUE TO SEND IN YOUR IDEAS. THE MORE INPUT WE GET FROM THE MEMBERS THE BETTER WE CAN SERVE YOU, SO KEEP THOSE PROGRAMS AND HINTS (GOOD OR BAD) COMING. RIGHT NOW THERE IS A LOT OF INTEREST IN BUSINESS TYPE PROGRAMS, SO IF YOU HAVE ANYTHING SEND IT IN.

WE ARE OPEN TO ANY AND ALL SUGGESTIONS FOR OR ABOUT THE NEWSLETTER. SEND ALL MAIL TO

IM-1 IN A MILLION
PO BOX 1411
SPRINGDALE
ARKANSAS 72764

!!
LET'S MAKE SURE OF ONE THING NOW. THOSE OF YOU WHO WERE MEMBERS OF THE NICC IN 1982 THAT WERE MISSED ON AN ISSUE OR FOR PART OF THE YEAR-LET ME KNOW WHO YOU ARE. IT'S MY JOB TO MAKE SURE THAT ALL OF YOU GET WHAT YOU PAID FOR AND IF YOU WERE ONE OF THOSE WHO GOT SKIPPED, I CAN'T DO ANYTHING WITHOUT YOUR HELP.

WE PROMISED TO ANSWER EVERY LETTER WE GET, BUT COULD I QUALIFY THAT FOR A MOMENT. IF YOU WANT A RESPONSE WOULD YOU PLEASE SPECIFY IN YOUR LETTER. AND IF POSSIBLE, INCLUDE A STAMPED SELF ADDRESSED ENVELOPE. THESE POSTAL RATES ARE DRIVING ME CRAZY AND THE 20 CENTS COMES OUT OF THE CLUB FUNDS. OTHERWISE WE WILL ASSUME THAT AN ANSWER IN THE NEWSLETTER WILL DO. THIS WILL ALSO ALLOW OTHER MEMBERS TO SEE THE QUESTIONS AND ANSWERS. NO TELLING HOW MANY THIS WILL HELP. THE PROBLEM BOTHERING YOU NOW MIGHT BE SOMEBODY ELSE'S TOMORROW.

FOR ANYBODY THAT WANTS TO SELL PROGRAMS OR HARDWARE WE WILL HAVE A "WANT ADS" SECTION WHICH WILL BE DISCOUNTED FOR MEMBERS. ALSO IF YOU WANT US TO REVEIW YOUR PROGRAMS OR HARDWARE CHANGES, PLEASE FURNISH US WITH A SAMPLE. WE WILL THEN REVEIW IT AND SEND OUR COMMENTS TO YOU. PLEASE LABEL ALL PROGRAMS WITH "DO NOT PUBLISH" TO HELP US.

IF ANYBODY HAS HARDWARE PROBLEMS WE WILL DO OUR BEST TO HELP YOU THROUGH THE NEWSLETTER OR A DIRECT LETTER TO YOU. IF IT IS AN EMERGENCY WE WILL EVEN HELP OVER THE PHONE (DUE TO COST YOU NEED TO HAVE ALL OF YOUR INFORMATION READY SO WE WON'T SPEND A LOT OF TIME ON THE PHONE). IF YOU WRITE I WILL GIVE YOU AN ESTIMATE OF COST BEFORE YOU SHIP THE MACHINE. PLEASE INCLUDE ANY AND ALL INFORMATION ABOUT THE PROBLEM, THE MORE THE BETTER. AND SHIP BY UPS. TO: M B ENTERPRISES

1403 WILLARD
 SPRINGDALE
 ARKANSAS 72764
 PHONE 501-756-6394 (AFTER 6 P.M. CENTRAL)

FOR THE PEOPLE WHO SEND PROGRAMS WE WILL PUBLISH AS MANY AS WE CAN. THE ONLY THING WE REQUEST IS THAT YOU SEND THEM TO US ON TAPE. WE WILL RETURN ANY TAPES REQUESTED. PLEASE PUT YOUR NAME AND ADDRESS ON THE TAPE. ALSO IF YOU WILL TRY TO PUT AS MANY COMMANDS AS YOU CAN ON EACH LINE IT WILL NOT TAKE AS MUCH SPACE TO PRINT.

ALSO FOR THOSE LIKE ME THAT ARE LAZY AND DON'T LIKE TO KEY IN THE PROGRAMS WE WILL SEND OUT COPIES ON TAPE FOR \$5.00 PER TAPE AND WE WILL PUT AS MANY OF THE PROGRAMS ON EACH TAPE AS WE CAN. JUST SEND US A LIST OF PROGRAMS YOU WANT AND WE WILL TRY TO GET THEM ON THE TAPE. LIST THEM IN THE ORDER YOU WANT THEM. FOR \$10.00 WE WILL PUT THEM ON A DISC.

HERE IS A LIST OF THE SECTIONS WE PLAN ON HAVING IN THE NEWSLETTER.

1. GENERAL COMMENTS
2. QUESTIONS AND ANSWERS
3. SOFTWARE HINTS AND ROUTINES IN BASIC (BASIC BOX)
4. MACHINE LANGUAGE ROUTINES (CALL BOX)
5. PROGRAM LISTINGS
 - A. GAMES
 - B. HOUSEHOLD
 - C. BUSINESS
 - D. LIST OF PROGRAMS AVAILABLE ON TAPE OR DISC
6. LONESOME COMPUTER LIST-NAMES AND ADDRESS OF COMPUTERS NEEDING COMPANIONSHIP
7. WANT ADS-FOR MEMBERS 25 CENTS PER LINE. FOR NON-MEMBERS 75 CENTS PER LINE. PLEASE READ RESTRICTIONS PRINTED WITH BLANK AD IN BACK OF THE NEWSLETTER.
8. PLUS ANY ADVERTIZEMENTS SUBMITTED BY MEMBERS AND NON-MEMBERS. WRITE FOR FULL PAGE RATES.
9. PROGRAM & HARDWARE REVIEW-THIS SERVICE AVAILABLE TO ANYBODY WANTING THE CLUB TO TEST AND REVIEW THEIR PRODUCT. JUST SEND US A COPY OF IT AND WE WILL TEST AND PRINT THE RESULTS OR SEND THE RESULTS BACK TO YOU.

WELL ENOUGH OF THE GENERAL COMMENTS AND ON WITH THE PART EVERYBODY HAS BEEN WAITING FOR!!!!!!
 FOR THOSE OF YOU WHO JOINED LATE THE 1982 ISSUES ARE STILL AVAILABLE AT \$10.00 FOR THE WHOLE YEAR. WRITE TO THE IM-1 IN A MILLION ADDRESS TO ORDER THEM.

I UNDERSTAND NOW WHY MAIL ORDER ADS HAVE ALWAYS STATED "CANADIAN ORDERS ADD 10% TO PURCHASE PRICE". THERE IS A SIZEABLE HASSLE AND LARGER SERVICE CHARGE EVERY TIME I TRY TO DEPOSIT AN OUT OF COUNTRY CHECK. I'VE EVEN NEEDED TO SEND A FEW BACK ASKING FOR A POSTAL MONEY ORDER. BECAUSE OF THIS, WOULD THOSE OF YOU WHO LIVE OUTSIDE OF THE U.S. PLEASE USE MONEY ORDERS WHEN PURCHASING FROM THE CLUB.

THANKS
EDITOR

FOR CLUB MEMBERS WITH QUESTIONS WE CANNOT ANSWER WE WILL BE GLAD TO RUN YOUR QUESTION WITH YOUR NAME AND ADDRESS FOR CLUB MEMBERS TO RESPOND TO, PLEASE SPECIFY IF YOU WANT YOUR NAME PUBLISHED.

THINGS SUBMITTED BY THE MEMBERS

CHECK THE PROGRAM LISTINGS FOR SOME SIMPLE PROGRAMS SUBMITTED BY KEITH PHILLIPS TO SHOW THE USE OF HI RESOLUTION GRAPHICS FOR THE BEGINNER IN HI RES. KEITH SUBMITTED SEVERAL LISTINGS AND WE WILL PUBLISH THEM AS SPACE ALLOWS.

THANKS FOR THE INFO KEITH

!!!!!!!!!!!!!!!!!!!!!!HERE IS A LETTER FROM ONE OF THE MEMBERS!!!!!!!!!!!!!!

FELLOW CLUB MEMBERS

THE EDITOR AND CLUB PRESIDENT HAS BEEN GRACIOUS ENOUGH TO ALLOW ME TO MAKE SOME BRIEF COMMENTS FOR THE NEWSLETTER. LET ME ASSURE ALL IM-1 OWNERS THAT THEY OWN THE BEST ALL AROUND HOME COMPUTER ON THE MARKET. RECENT PRICE DECLINES IN ALL THE OTHERS STILL CAN'T MATCH THE IM-1. I FEEL SORRY FOR ANYONE BUYING THE OTHER BRANDS. THEY MAY SPEND 5 TO 10 TIMES THEIR INITIAL INVESTMENT TO LOAD AND SAVE PROGRAMS IN A TIMELY MANNER AND STILL THINK THEY BOUGHT A \$200 COMPUTER. I'VE KNOWN PEOPLE THAT STARTED WITH THE APPLE ONLY TO SWITCH TO THE IBM. THIS IS NOT A GOOD TIME TO BE CHASING TECHNOLOGY. THE POINT IS THIS, THE FIRST STEP SHOULD BE SMALL, I.E., INEXPENSIVE. ALL HOME COMPUTERS HAVE SHORTCOMINGS, IT DOESN'T TAKE A GENIUS TO FIND FAULT WITH A \$300 COMPUTER. I CHOSE APF BECAUSE ITS SHORTCOMINGS WERE EASIEST TO CORRECT AND THE LEAST EXPENSIVE. UNFORTUNATELY, RUMORS ARE RAMPANT, APF MAY GO OUT OF BUSINESS. THEIR STOCK A FEW YEARS AGO WAS \$15 A SHARE. NOW IT'S A MERE 25 CENTS. I THINK IT WAS THE ECONOMY, MAYBE SOME BAD DECISIONS BY MANAGEMENT, AT ANY RATE, WE MAY BE THE ONLY ONES TO GET A FAIR DEAL ON OUR "FIRST STEP". IF WE COULD HELP APF WOULD WE? MAYBE I SAW TOO MANY WALT DISNEY MOVIES LIKE "SAVE THE TIGER". I DON'T THINK I HAVE A "POLYANNA" VIEW OF SAVING APF. I'M NOT SURE WE CAN SUCCEED, ESPECIALLY WITH OUT APF WORKING WITH US. FIRST, THEY NEED TO ADVERTISE. THEY PROBABLY CAN'T AFFORD IT. WE COULD OFFER THEM FREE SOFTWARE AND HARDWARE MODIFICATIONS, BUT THEY MAY NOT WANT THEM. I'M A LOUSY SALESMAN MYSELF. I'M NOT ASKING THAT WE ALL GO OUT AND BUG PEOPLE TO BUY AN APF. BUT, IF YOU KNOW SOMEONE CONSIDERING BUYING A HOME COMPUTER YOU WOULD BE DOING THEM A FAVOR BY TELLING THEM ABOUT THE ONLY WHOLE COMPUTER FOR UNDER \$300. DID YOU KNOW THAT A 48K APPLE HAS ONLY 36K OF USER AVAILABLE MEMORY? OR A COMMODORE 64 HAS ONLY 38K? ALL THE OTHER BRANDS REQUIRE EXTENDED BASIC FOR HI RES GRAPHICS. OR THAT THEY USE SLOW BAUD TRANSFER RATES WITH CRITICAL VOLUMN SETTINGS AND NO AUDIO TRACK TO FRUSTRATE PEOPLE INTO BUYING FLOPPIES? I COULD GO ON BUT I THINK THAT SHOULD BE SUFFICIENT. THE APF CAN DO DUAL CHANNEL SOUND EFFECTS (LIKE STEREO) BY TURNING THE CASSETTE ON AND OFF WITH SAY PARTS OF STAR WARS RECORDED ON IT TO SPICE UP YOUR GAMES

WITH REAL GUNFIRE. AS SOON AS WE GET AN BK SCREEN MEMORY MOD COMBINED WITH THE ALREADY AVAILABLE 24K WE WILL HAVE A 32K MACHINE LIKE EVERYBODY ELSE. WE HAVE 16 COLORS IN HI RES MODE 2 AND THE NEW ROMMON, SOON HUEY, SUPERCALCULATOR WITH SCI NOTATION AND 12 DIGIT ACCURACY IN MACHINE LANGUAGE. FUTURE NEWSLETTERS WILL HAVE MORE. THIS NEXT YEAR WILL BE GREAT.

K. PHILLIPS

?????QUESTIONS AND ANSWERS?????

WE ARE GETTING SEVERAL QUESTIONS ABOUT HOOKING THE IM-1 TO RECEIVERS FOR SATELITES AND HAM RADIOS. IF ANYBODY HAS ANY INFO SEND IT TO THE CLUB AND WE WILL LET THE OTHER MEMBERS KNOW.

FROM WESLEY DUKE

IS THERE AND ADAPTER AVAILABLE TO ALLOW OTHER GAME CARTRIDGES TO BE ATTACHED TO THE IM-1????

AS OF NOW THERE ARE NONE THAT WE KNOW OF, BUT THERE ARE SEVERAL PEOPLE WRITING GOOD GAME PROGRAMS FOR THE IM-1 NOW. SEE THE ENCLOSED AD.

#####MAINTENANCE HINTS#####
FOR THOSE THAT NEED NEW MEMORY CHIPS FOR THE MPA-10 AND CANNOT FIND THE 4115, WELL THE RADIO SHACK 4116 THAT THEY USE IN THEIR 16K MEMORY'S WILL WORK.

BASIC BOX BASIC BOX BASIC BOX

WITH THIS SECTION OF THE NEWSLETTER I HOPE TO EXPLAIN SOME OF THE MORE DIFFICULT ""BASIC"" STATEMENTS AND TRY TO GIVE SOME EXAMPLES OF THEIR USE. IF THERE ARE ANY COMMANDS GIVING YOU A HARD TIME, PLEASE WRITE AND LET ME KNOW AND I WILL TRY TO COVER THEM FIRST. ALSO IF YOU HAVE ANY EXPLANATION YOU FEEL MIGHT HELP SOME OF THE OTHER MEMBERS PLEASE SEND THEM.

HERE ARE SEVERAL COMMANDS THAT PEOPLE HAVE WRITTEN TO US WANTING TO KNOW WHY THEM WILL NOT DO ANYTHING ON THEIR IM-1'S. 1--OPEN, 2--CLOSE, 3--DIR, 4--SAVE, 5--INIT; ALL OF THESE COMMANDS ARE ONLY FOR THE IM-1'S FLOPPY DISC DRIVES. IF YOU TRY TO USE THEM IT WILL PROBABLY CAUSE THE COMPUTER TO HANG.

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5  REM PROGRAM BY K.D.WIRTZ OF PENETANGUISHENE- ON .CANADA.
10  REM **COMPARES U.S AND METRIC SYSTEMS.
20  CALL 17046: POKE 24578,38
30  PRINT "***** U.S. TO M E T R I C *****"
40  PRINT
50  PRINT "**** C O N V E R S I O N S ****"
55  PRINT
60  PRINT " 1. LINEAR MAESUREMENTS"
62  PRINT "     IN-CM-KILOMETER-YARD-METER"
65  PRINT " 2. SPEEDS AND FUEL CONSUPTIONS"
66  PRINT
70  PRINT " 3. SQUARES AND CUBES(US-METRIC)"
90  PRINT " 4. TEMPERATURES (F.DEG-C.DEG)": PRINT
100 PRINT " 5. LIQUID MEASURES(INFD ONLY)": PRINT ,"AND WEIGHTS": PRINT
105 PRINT
110 INPUT " SELECT 1,2,3,4,5",S
120 ON S GOTO 130,450,600,800,900,990
130 CALL 17046
140 PRINT " 1 INCH = 2.54 CENTIMETERS (CM)": PRINT " 1 FOOT = 30.48 CENTIMETERS ": PRINT " 1 YARD = 91.44 CENTIMETERS"
150 PRINT
160 PRINT ," 1 MILE = 1760 YARDS": PRINT ,," = 5280 FEET ": PRINT ,," = 63360 INCHES"
170 PRINT
180 PRINT " 1 KILOMETER = 1000 METERS": PRINT " 1 METER   = 100 CENTIMETERS"
190 PRINT " 1 CENTIMETER = 0.3937 INCHES ": PRINT " OR ABOUT 25/64 OF AN INCH"
230 PRINT
240 INPUT "PRESS RETURN FOR CALCULATIONS"
245 PRINT : PRINT
250 PRINT " CONVERTING MILES TO YDS-FT-IN.": PRINT ," ENTER "
255 INPUT " MILES",A
260 PRINT ;A*1760;" YARDS "
265 PRINT ;A*5280;" FEET  "
270 PRINT ;A*63360;" INCHES"
275 B=2.54: PRINT
285 PRINT "***** METRIC CONVERTER *****": PRINT
295 PRINT " 1 INCH =";B;" CENTIMETERS"
300 PRINT " 1 FOOT =";B*12;" CENTIMETERS "
305 PRINT " 1 YARD =";B*36;" CENTIMETERS"
310 PRINT " 1 MILE =";B*633.6;" METERS": PRINT
320 PRINT
330 INPUT " INCHES ",C
340 PRINT ,C*2.54;" CENTIMETERS"
345 INPUT " FEET",D
350 PRINT ,D*30.48;" CENTIMETERS"
355 INPUT " YARDS",E
360 PRINT ,E*91.44;" CENTIMETERS"
370 PRINT " OR ";E*.9144;" METERS"
385 INPUT " MILES",F
390 PRINT ,F*1609.344;" METERS "
395 PRINT " OR ";F*1.6093;" KILOMETERS"
400 PRINT
405 INPUT " IN CENTIMETERS",E
410 PRINT ;E*.3937;" IN INCHES"
415 PRINT ;E*.0329/3;" IN YARDS "
420 PRINT
425 PRINT "PRESS RETURN FOR MENU"
430 INPUT " PRESS 1 FOR MORE?",K
435 IF K=1 GOTO 250
440 GOTO 10

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1 REM  ANOTHER HI RES PROGRAM
2 REM  BY KEITH PHILLIPS
5 POKE 24570,38
6 POKE 8193,60: POKE 8194,222
10 FOR A=0 TO 15: POKE 512+A,0
11 POKE 520,0
12 NEXT
15 FOR A=0 TO 383: POKE A,64
20 NEXT
30 FOR A=0 TO 15: POKE 528+A,48: NEXT
32 POKE 528,0: POKE 529,0: POKE 542,0: POKE 543,0
34 POKE 535,255
35 FOR A=0 TO 48
36 READ E: POKE 576+A,E: NEXT
40 FOR A=0 TO 15: POKE 544+A,64: NEXT
45 FOR A=0 TO 15 STEP 4: POKE 544+A,255: NEXT
60 FOR B=0 TO 12: POKE 192+B,65: POKE 209+B,65: NEXT
70 FOR B=47 TO 335 STEP 32: POKE B,66
72 POKE 175,64: POKE 207,64: POKE 239,64
75 NEXT
76 FOR A=560 TO 575: POKE A,A/4: NEXT
80 M=16830: POKE 498,0:X= PEEK (498)
90 CALL 16830
95 X= PEEK (498)
96 IF X=33 THEN CALL 16999: POKE 207,67: POKE 207,64
100 IF X=78 GOTO 300
105 IF X=83 GOTO 400
110 IF X=69 GOTO 500
120 IF X=87 GOTO 600
129 POKE 498,0
130 CALL 16830
150 N=N+1: ON N GOTO 300,400,500,600
200 DATA 20,52,84,116,148,150,152
210 DATA 21,53,85,117,149,151,153
220 DATA 22,54,86,118,150,152,154
230 DATA 287,284,251,249
240 DATA 0,0,2,15,14,22,20,23,22,14,5,1,0,0,0,21,20,84,85,89,101,100,100,101,149,89,99,98,20,20,0
245 DATA 0,0,0,65,80,80,80,80,80,80,144,89,99,100,186,0
250 DATA 54,67,68,101,102,135,137,139,140,142,175,207
255 DATA 224,226,228,229,263,265,234,267,237,206,207
260 DATA 349,313,314,344,280,311,278,243,246,244,178,243,240,207
300 READ A: POKE A,68: READ B: POKE B,69: READ C: POKE C,70
310 POKE A,64: POKE B,64: POKE C,64
311 GOTO 90
400 READ B: POKE B,67
405 READ F: POKE F,68: POKE F,69: POKE F,70
410 POKE B,64
411 GOTO 90
500 READ C: POKE C,67
505 READ G: POKE G,68: POKE G,69: POKE G,70
510 POKE C,64
511 GOTO 90
600 READ D: POKE D,67
605 READ H: POKE H,68: POKE H,69: POKE H,70
610 POKE D,64
611 GOTO 90
615 POKE F,64: POKE G,64: POKE H,64
620 POKE 498,0: GOTO 90
630 GOTO 100

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1 REM  CALCULATING TAXABLE  INCOME
2 REM  PROGRAM SUBMITTED BY DAN TAYLOR
5 CALL 17046
10 PRINT "TOTAL INCOME ....=" ;
20 INPUT I
30 PRINT "TOTAL ADJUSTMENTS=" ;
40 INPUT A
50 G=I-A
60 PRINT "TOTAL DEDUCTIONS .=" ;
70 INPUT D
80 PRINT "NO. OF DEPENDENTS =" ;
90 INPUT N
100 T=G-D-N*1000
110 PRINT "TAXABLE INCOME IS $";T
120 MUSIC "#1"
130 END

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450 CALL 17046
455 PRINT "*** SPEED AND FUEL CONSUMPTION**"
460 PRINT "*****"
465 PRINT : PRINT " IF A CAR TRAVELS AT 60 MILES ": PRINT " PER HOUR IT COVERS 90 FEET ": PRINT "," PER SECOND (F/SEC)"
468 PRINT
470 INPUT " SPEED IN MILES",M
480 PRINT : PRINT "YOU MAKE ";M*1.4667;" FEET/SEC"
485 PRINT : PRINT "," IF YOU GO"
490 INPUT " FEET/SEC.",N
495 PRINT "YOU ARE GOING ";N*0.6818;" MILES PER HOUR"
498 PRINT " OR ";N*1.0972;" KILOMETERS/HR"
500 PRINT
504 PRINT "HIT RETURN KEY FOR FUEL CONSUMP"
505 INPUT " MORE SPEEDS? (1=YES)",K
506 PRINT
507 IF K<>1 GOTO 520
510 IF K=1 GOTO 460
520 CALL 17046
525 PRINT "**** FUEL CONSUMPTIONS****": PRINT
530 PRINT " SINCE CANADA CHANGED TO THE ": PRINT " METRIC SYSTEM THE IMPERIAL GAL": PRINT "," IS OMITTED HERE "
540 PRINT "IF A CAR MAKES"
550 INPUT " MILES PER GALLON",G
555 PRINT
560 E=6.3848:J=E*G
565 PRINT "IT WOULD USE ";1000/J;" LITER IN 100 KILOMETER"
570 PRINT : PRINT
572 PRINT "RETURN KEY TO GOTO MENU"
575 INPUT " MORE FUEL QUESTIONS?(1)",K
580 IF K=1 GOTO 520
585 IF K<>1 GOTO 10
600 CALL 17046
605 PRINT "***** OF SQUARES AND CUBES*****"
610 PRINT "***** GENERAL INFORMATION*****"
615 PRINT " 1 SQ.MILE = 640 ACRES"
620 PRINT " 1 ACRE = 42560 SQ.FT."
625 PRINT " 1 SQ.YD. = 1296 SQ.IN."
630 PRINT " 1 SQ.FT. = 144 SQ.IN."
635 PRINT : PRINT
640 PRINT "***** INTO METRIC *****"
645 PRINT
650 INPUT "HOW MANY SQ.FT?",F
655 M=F*.092: PRINT
660 PRINT ;F;" SQ.FT = ";M;" SQ.METERS"
670 PRINT
675 PRINT "HOW MANY SQ METERS": PRINT
680 INPUT "SQ.METER",E
685 T=E*1.1960: PRINT ;T;" SQ.YARDS"
690 R=T*9: PRINT ;R;" SQ.FEET"
695 PRINT : PRINT
697 PRINT " PRESS RETURN FOR CUBES"
700 INPUT " PRESS 1 FOR MORE",K
705 IF K=1 GOTO 600
710 PRINT : PRINT
715 PRINT "***** CUBIC MEASURES *****"
720 PRINT : PRINT
725 PRINT " 1 CU.IN = 16.3871 CCM-CUBIC CM"
730 PRINT " 1 CU YD = 0.7646 CU.METERS"
735 PRINT " CONVERTING CU.IN-CCM-LITERS"

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740 INPUT " CU.IN",H
745 PRINT ;H;" CU.IN = ";H*16.3871;" CCM "
750 PRINT "THAT'S EQUAL TO ";H/61.0236;" LITER ": PRINT
755 PRINT " IF A CAR'S DISPLACEMENT IS ": PRINT "KNOWN ONLY IN LITER THE CUBES="
758 PRINT
760 INPUT "IN LITER",L
770 PRINT ;L;" LITER = ";L*61.0236;" CU.IN."
775 PRINT
777 PRINT " RETURN KEY FOR MENU"
780 INPUT " 1=MORE CUBES ",K
785 IF K=1 GOTO 710
790 GOTO 10
800 CALL 17046
805 PRINT "**** TEMPERATURE CONVERTER ****": PRINT
810 INPUT "HOW MANY DEGREES F?",F
815 D=5/9*(F-32): PRINT
820 PRINT ;F;" DEGREES F =";D;" DEGREES C"
825 PRINT : PRINT
826 PRINT " RETURN KEY FOR C.DEG-F.DEGREES"
830 INPUT " MORE F-C ? PRESS 1",K
835 IF K=1 GOTO 805
840 PRINT : PRINT : PRINT
845 INPUT "HOW MANY DEGREES C?",D
850 F=D*9/5+32: PRINT
855 PRINT ;D;" DEGREES C =";F;" DEGREES F"
860 PRINT : PRINT
862 PRINT " RETURN KEY FOR MENU"
865 INPUT " MORE C-F ? PRESS 1",K
870 IF K=1 GOTO 840
880 GOTO 10
890 STOP
900 CALL 17046
910 PRINT "***** LIQUID MEASURES *****"
915 PRINT " 1 GAL.(U.S) = 16 FL.OZ"
920 PRINT " 1 GAL.(IMP) = 20 FL.OZ"
925 PRINT " 1 FL.OZ(U.S)= 28.4 CCM(METRIC)"
930 PRINT " 1 GAL.(U.S) =128 FL.OZ"
935 PRINT " 1 GAL.(IMP) =160 FL.OZ"
940 PRINT " 1 GALLON = 8 PINTS"
945 PRINT " 1 GALLON = 4 QUARTS"
950 PRINT
955 PRINT " 1 LITER = 1.0567 QTS(U.S)"
960 PRINT " 1 FL.OZ = 1.80 CU.IN"
965 PRINT " 1 SHORT TON = 2,000 LBS(U.S)"
970 PRINT " 1 LONG TON = 2,240 LBS(U.S)"
975 PRINT "OR ABOUT 2,000 LBS METRIC=1 TON"
977 PRINT
980 INPUT "WEIGHTS-PRESS RETURN KEY"
990 CALL 17046: PRINT "***** WEIGHTS *****"
995 PRINT
1000 PRINT "1 LBS(US) = 16 OZ(US)"
1005 PRINT "1 LBS(US) =454 GRAM(METRIC)"
1010 PRINT "1 LBS(METRIC) =500 GRAM"
1015 PRINT ", OR 1/2 KILOGRAM": PRINT
1020 PRINT " CONVERSIONS ": PRINT
1025 PRINT " OUNCES TO GRAMS AND LBS(METRIC)": PRINT
1030 INPUT " OUNCES",O
1035 G=O*28.3752:F=O*.5675/10:H=G/1000
1040 PRINT : PRINT ;G;" GRAMS"
1045 PRINT ;F;" LBS (METRIC)"
1050 PRINT ;H;" KILOGRAMS": PRINT
1055 PRINT " GRAMS TO OUNCES AND LBS (US)": PRINT
1060 INPUT " GRAMS ",G
1065 PRINT :O=G/28.375:L=O/16
1070 PRINT ;O;" OUNCES "
1075 PRINT ;L;" LBS (US)": PRINT
1077 PRINT " PRESS RETURN KEY FOR MENU"
1080 INPUT "PRESS 1 FOR MORE WEIGHTS",K
1085 IF K=1 GOTO 1020
1090 GOTO 10
1095 STOP
1100 END

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WANT ADS

STAR TREK COMMANDING YOUR STARSHIP REQUIRES MUCH MORE THAN PUSHING THE FIRE BUTTON! INTR & GAME PROGRAMS 8K \$12.95 GR JONES 419 S. 105 E. PL, TULSA, OK 74128

SOUND EFFECTS PROGRAM- WRITTEN IN 6800 MACHINE LANGUAGE ALLOWS YOU TO PLAY EITHER STREIGHT TONES OR ALMOST UNLIMITED AND GREAT SOUND EFFECTS TO BE ADDED TO YOUR CLUB MEMBERS PROGRAMS. LETS YOU CONTROL THE FOLLOWING: TONE FREQUENCY TONE LENGTH # TIMES TO DECREASE TONE FREQ., # TO DECREMENT TONE FREQ.

\$14.95 SEND CHECK OR MO TO RALPH A RODRIGUEZ, 2125 HAVILAND AVENUE, BRONX, N.Y. 10472

KIT OF INSTRUCTIONS AND PARTS TO ADD ANOTHER GRAPHICS MODE TO THE IMAGINATION MACHINE. 2 COLOR SETS OF 2 COLORS EACH. 64X48 WITH PRE-DEFINED SHAPES. NO ALPHANUMERICS.

\$7.95 SEND CHECK OR MO TO RALPH A RODRIGUEZ, 2125 HAVILAND AVENUE, BRONX, N.Y. 10472

FOR SALE: IMAGINATION MACHINE.

LIKE NEW. BEST OFFER.

DENISE DUGAN, 126 THE RIVERWAY #4, BOSTON, MA 02215 617-739-2126

FOR SALE: 23K APF IM-1 COMPUTER FACTORY PACK WITH ELECTRONIC FILES (TAPE), CARTRIDGES-UFO, SHOOTING GALLERY, PINBALL, CASINO AND BOOKS-USING THE 6800 MICRO PROCESSOR BY ELMER POE HOW TO PROGRAM & INTERFACE THE 6800 BY ANDREW C. STAUGAARD, JR. COMPUTER NEEDS A LITTLE WORK, \$200.00 AS IS OR \$250.00 IF I FIX. WILLIAM E TYE JR, RT 1 BOX 118-B, LORENA, TEXAS 76655

HERE'SSSS HUEY!!! SUPER-CALCULATOR... THE POWER OF THE IBM 370 EASIER THAN A POCKET CALCULATOR. ALL KEY ENTRIES SELF REPEATING BY SIMPLY KEEPING THEM DEPRESSED ARITHMETIC ACCURACY 12 DIGITS, SQR 11 DIGITS, ARCTAN 11 DIGITS, OTHER TRIG 8 DIGITS, LOGS, EXP 8

WANT ADS

DIGITS. RPN STACK SCIENTIFIC NOTATION FROM 10E37-10E-37. COMPOUND INT., PRESENT VALUE, SINH, E TO THE X, ANTILOG, INX, LOG10, MANY CONSTANTS BUILT-IN LIKE PI, E, LOG E, SQR OF 2, ETC. YOU CAN ROLL THE STACK, EXCHANGE X & Y INVERSE, AND IF YOU BUY THE 19 PAGE MANUAL YOU CAN LEARN HOW TO ADD EVEN MORE, OR MODIFY TO SUIT YOUR OWN NEEDS. AND AS MORE EXPERIENCED CLUBMEMBERS EXPERIMENT WITH IT WE MAY EVEN ADD A FEW INSTRUCTIONS THAT WILL MAKE IT ACT LIKE IT WAS PART OF THE BASIC INTERPRETOR. I'M PAYING ROYALTIES ON THIS, ALL I DID WAS CONVERT IT FROM THE SWTP VERSION THE PRICES ARE \$4.00 FOR 2 PG LISTING (TYPE IT IN YOURSELF, REQUIRES MODIFICATION). THE CASSETTE VERSION IS \$6.50..... NO CASE, CHEAP TAPE, NO FANCY FRONT PIC. THE MANUAL IS A DETAILED LISTING WITH ALGORITHMS EXAMPLES, AND INSTRUCTIONS. THE MANUAL PRICE IS \$15.00. MANUAL & CASSETTE TOGETHER IS \$17.50. SEND CHECKS TO KEITH PHILLIPS, 3465 HILLS BOROUGH WAY, SAN JOSE CA 95121

FOR SALE: FOR CLUB MEMBERS ONLY, RX-80 PRINTER RIBBONS \$10.00 + \$2.00 POSTAGE. BLANK FLOPPY DISC FOR THE D-100 DRIVES \$3.00 + \$1.00 POSTAGE (BOX OF 10 \$27.00 + \$2.00 POSTAGE) WHILE SUPPLY LASTS. ORDER THROUGH M.B. ENT., PO BOX 1411, SPRINGDALE, ARKANSAS 72764

FOR SALE: 23K IM-1 COMPUTER, BASIC TUTOR, BAR CHARTS, BUDGET MANAGER & 1 STAR TREK GAME PROG. ALL 3 MONTHS OLD AND EXCELLENT CONDITION--ALL FOR PRICE OF COMPUTER ONLY: \$239.00 CALL 503-640-8681 MEL O'BRIEN

FOR SALE: LIKE NEW (IT IS) 1 WIRE WRAP MODULE (MW-100) 1 8K MEMORY EXPANSION MODULE 1 00-1 EXPANSION INTERFACE 1 D-100 DISK DRIVE ALL MANUALS INCLUDED, PLUS FREE GAME ROM.

WRITE TO: C. RICARD, 244 N. FINDLAY PIKE, PORTAGE, OHIO 43451-0102 NO CHECKS

WANT ADS

FOR SALE: THE LETTER WRITER YOUR COMPOSING PROBLEMS ARE OVER. NOW YOU CAN DO YOUR WRITING ON THE APF. THIS PROGRAM OFFERS YOU EASY EDITING-ADD, DELETE, AND CHANGE CHAR.; SENTENCES CHANGE ON SCREEN AS YOU EDIT. YOU GET UPPER & LOWER CASE PRINT ON YOUR PRINTER. SAVE & RETREIVE LETTERS ON TAPE. THE LETTER WRITER MAKES COMPOSING & TYPING REPORTS, LETTERS, & MEMOS FAST & EASY. PLEASE SEND YOUR ORDER & \$15.00 TO: MILT PERRY, 2000 ST REGIS DR #5C LOMBARD, ILLINOIS 60148. PLEASE SPECIFY 8K OR 16K AND THE NUMBER OF CHAR/LINE.

NOVICE PROGRAMS--BATTLESHIP----- LO-RES SKETCH---HI-RES SHAPE MAKER 6800 MEMORY PEEK--SPELL-IT---AND MORE ON CASSETTE SEND \$5.00 TO EASY PROGRAMS, 1440 MONTANA ST., ORLANDO, FL 32803

CLUB PROGRAMS!!

- HI RES! HELP BY K. PHILLIPS
- HI RES2 HELP BY K. PHILLIPS
- HI RES3 HELP BY K. PHILLIPS
- CE3K FUN PROG. BY K. PHILLIPS
- BLACKJACK BY J. DRAUGHON
- STATE CAPITALS BY J. DRAUGHON
- LETTER MACHINE BY J. DRAUGHON
- FROGGER BY J. DRAUGHON
- T.V. LOGO BY J. DRAUGHON
- HAPPY BIRTHDAY BY J. DRAUGHON
- ENGLISH LESSON BY J. DRAUGHON
- MERRY CHRISTMAS BY J. DRAUGHON
- SQUARE ROOT BY L. CORNELL
- SUBMARINE BY H. REITH
- APF IM-1 ON CALL BY L. DOOLEY
- MAGIC SQUARES BY DON SCHMIDT
- BATTLE OF NUMBERS BY D. SCHMIDT
- SPIRAL II BY D. SCHMIDT
- MEMORY TEST BY W. PINNER
- SNAKE BY W. PINNER
- HI RES ALPHA'S BY W. PINNER

WE WILL PUBLISH THESE AS TIME AND SPACE PERMITS

CALL BOX CALL BOX CALL BOX

WITH THIS SECTION I AM GOING TO ATTEMPT TO HELP PEOPLE WITH THE MACHINE LANGUAGE OF THE IM-1. I WILL MAINLY CONCENTRATE ON THE ML CALL ROUTINES AVAILABLE. SOME OF THIS MIGHT BE OLD INFO FOR SOME OF YOU BUT STICK WITH ME AND WE WILL GET TO THE NEW STUFF SOON ENOUGH.

CALL 34040=ENABLE MOTOR AND AUDIO OF TAPE CASSETTE TO ALLOW YOU TO LISTEN TO AUDIO TRACK ONLY.

CALL 34061=SHUTS OFF MOTOR AND AUDIO.

CALL 34141=PUTS OUT 11 SECOND HEADER AND THEN SAVES MEMORY AS SPECIFIED IN THE "HIGH" AND "LOW" MEMORY POINTERS IN MEMORY.

CALL 34228=READS FROM TAPE TO MEMORY AND PUTS DATA AS PER "HIGH" AND "LOW".

"LOW"=2 BYTES INDICATING THE BEGINNING OF MEMORY FOR TAPE SAVE OR READ. LOC=40967(DEC) & A007(HEX)

"HIGH"= 2 BYTES INDICATING THE END OF MEMORY FOR TAPE SAVE OR READ. LOC=40969(DEC) & A009(HEX). "MEM END" SHOULD BE SET TO THE SAME AS "HIGH" WHEN USING "HIGH".

"MEM END"= 2 BYTES INDICATING THE END OF MEMORY. LOC=41446(DEC) & A1E6(HEX).

THESE LOCATIONS CAN BE SET USING FPOKE COMMANDS.

HERE IS AN EXAMPLE FROM THE TECH REFERENCE MANUAL FOR THE USE OF THE ABOVE.

```
10 DIM A(5):REM SET UP ARRAY SPACE
15 PRINT"PLACE TAPE IN DECK AND ENGAGE":REM PRINT TAPE MESSAGE
20 FOR J=1 TO 3:REM WILL DO LOOP 3 TIMES
30 FOR I=0 TO 5:INPUT"INPUT #",A(I):NEXT I:REM GET INPUTS FOR 6
ELEMENTS
35 GOSUB 200:REM GO SET UP HIGH, LOW, MEM END
40 CALL 34141:CALL 34061:REM CALL SAVE ROUTINES, THEN STOP MOTOR
50 GOSUB 300:REM RESTORE MEMEND VALUE
60 NEXT J:REM GET 6 MORE VALUES FOR A
70 INPUT"REWIND TAPE, PRESS PLAY, THEN RETURN KEY"
80 FOR J=1 TO 3:REM WILL READ BACK 3 GROUPS OF DATA
90 GOSUB 200:REM GO SET HIGH, LOW, MEM END
100 CALL 34228:REM GO READ FROM TAPE
110 CALL 34061:REM STOP MOTOR
120 FOR I=0 TO 5:REM PRINT OUT VALUES OF A
130 PRINT A(I);" ";
140 NEXT I
150 NEXT J
160 END
200 POKE 40967,PEEK(41984):REM SET LOW POINTERS TO END OF PROG-
RAM STORAGE (=START OF VARIABLE STORAGE)
210 POKE 40968,PEEK(41985):REM OTHER HALF OF LOW
220 POKE 40969,PEEK(41009):REM SET HIGH POINTER TO END OF VARI-
ABLE STORAGE
230 POKE 40970,PEEK(41010):REM OTHER HALF OF HIGH
240 POKE 41446,PEEK(41009):REM SET MEM END TO END OF VARIABLE
STORAGE
250 POKE 41447,PEEK(41010):REM OTHER HALF OF MEM END
260 CALL 34040:RETURN:REM START MOTOR AND RETURN
300 POKE 41446,191:REM USE 223 IF 16K MACHINE
310 POKE 41447,255:REM OTHER HALF OF MEM END
320 RETURN
9999 STOP
```

PLACE A BLANK TAPE IN THE DECK AND RUN THE PROGRAM. ENTER VALUES FOR A(I) WHEN ASKED. THE PROGRAM WILL ASK FOR 3 GROUPS OF 6 VALUES EACH TO USE FOR ARRAY A. AFTER YOU ENTER EACH GROUP IT WILL SAVE THEM TO TAPE.

WHEN THE 3 GROUPS ARE ENTERED AND SAVED, FOLLOW THE DIRECTIONS AND YOU WILL SEE THE PROGRAM RETRIEVE FROM TAPE EACH OF THE 3 GROUPS AND DISPLAY THEM.

So... You
Think You're
Invincible?



ESCAPE !!!

Can you Escape! Your 8 floors deep below the earth. In a maze with no exits! You must destroy the 4 security banks, then a door will open for you to escape to the next level. However you must do this while running from the roving guards. They chase you and fire bullets at you. You can fire back to destroy them. 8 Different mazes will keep you constantly challenged. 99% Machine language gives you quick, HI-RES, color graphics and many sounds. Will provide hours of fun for only: \$10.95.

Plus shipping & Handling
!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!

New

FUN.

FAST.

POWERFUL

EXCITING

ESCAPE!



Save 25%
Buy ESCAPE! and get
any second game for
only: \$7.50!!!
HURRY & BUY NOW!

↓ From March Newsletter

HEY FOLKS CHECK OUT THE GAMES IN THE FULL PAGE ADS. THE PAC MAN AND FROGGY ARE BOTH VERY GOOD GAMES WITH SOME REAL GOOD HI RES GRAPHICS. YOU SHOULD ENJOY BOTH! !!!!! EDITOR



-FROGGY ON THE FREEWAY-

IM-1 in a MILLION NEWSLETTER. If you like highspeed thrills and excitement, you'll love FROGGY ON THE FREEWAY!! A colorful, HI-RES, quick action game is finally here. You control a little frog across a 10 lane freeway to his home. Each time you get 1 frog home the traffic gets faster. Get 4 home and you advance to the GOLD frog level, this ones really tough! And if your real good you'll make it to the 3rd level, (RED FROG). This levels a killer. Frog may eat snakes and flies for bonus points. It's mile a minute action will provide hours of challenging fun.

CUSTOMER FEEDBACK

***** EXCELLENT 75% GOOD 25%

FAIR 0% POOR 0%

On Cassette for only: \$10.95
plus shipping & handling



PAK-MAN is here!!!

Your waiting is over, just like the arcade version you control the little guy around the maze trying to eat all the dots. While at the same time 4 very quick ghosts are trying to eat you. Complete with power pills. Each screen gets faster and faster. 95% machine language gives you quick action, HI-RES graphics, and new sounds. Will provide hours of challenging fun.

CUSTOMER FEEDBACK

***** EXCELLENT 37% GOOD 52%

FAIR 10% POOR 1%

On Cassette for only: \$10.95
plus shipping and handling



Add a fresh new perspective to your games with the Atari joystick. For a low price you get easy to follow instructions on how to do this project yourself (with illustrations).

ONLY \$3.50



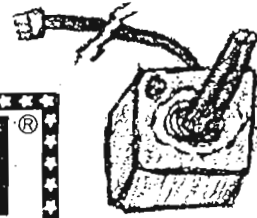
TO ORDER:

Send cashiers check/money order to **ERIC BECKETT**
7129 N. 86th St.
Milw. WI 53224

SHIPPING INFO:

Add \$1.50 for 1 game
\$2.00 for 2 games
\$2.50 for 3 games

Attention: ALL APF GAME PLAYERS



Add a fresh new perspective to your games with the famous Atari joystick. For a low price you get 1 modified Atari joystick and 2 sockets which you connect to your APF joysticks, using the easy to follow instructions. When the Atari joystick is desired just simply plug it in.

ONLY \$14.99
plus shipping & handling



PAK MAN, IS HERE

Your waiting is over, just like the arcade version you control the little guy around the maze trying to eat all the dots. While at the same time 4 very quick ghosts are chasing you around trying to eat you. Complete with power pills. Each screen gets faster and faster. 95% machine language gives you quick action, hi-res graphics, and sounds. Guaranteed to provide hours of challenging fun.

On Cassette for only: \$10.95
plus shipping & handling

TO ORDER:
Send Cashiers Check or Money Order

to ERIC BECKETT

7129 N. 86th St.

Milwaukee, WI. 53224

SHIPPING INFO.

Add \$1.50 for game
\$2.00 for joystick

=====

LONESOME COMPUTERS

SO MANY PEOPLE HAVE REQUESTED TO BE PUT IN TOUCH WITH OTHER IM-1 OWNERS THAT WE DECIDED TO ADD THIS PAGE DEVOTED TO THEM. WE WOULD NOT PRESUME TO GIVE OUT ANYONES NAME OR ADDRESS WITHOUT THEIR EXPRESS PERMISSION TO DO SO. IF YOU WISH TO BE CONTACTED, ALL YOU NEED TO DO IS FILL OUT THIS SECTION AND SEND IT TO US. WHO KNOWS, THERE MAY BE SOMEONE DOWN THE BLOCK WHO'S DYING TO MEET YOU.

=====

----CHECK HERE IF YOU DO NOT WANT THIS INFORMATION PUBLISHED!!!!

NAME=-----*TELL US A LITTLE ABOUT YOURSELF

ADDR=-----*

CITY=-----*

STATE=-----*

ZIP=-----*

PHONE=-----*

=====

BLANK WANT AD

EACH LINE CAN CONTAIN 32 CHARACTERS INCLUDING SPACES.

=====

LINE 1.

LINE 2.

LINE 3.

LINE 4.

LINE 5.

LINE 6.

LINE 7.

LINE 8.

LINE 9.

LINE 10.

DUE TO THE COST OF PRINTING WE WILL HAVE TO REQUEST THAT THE MEMBERS AND NON-MEMBERS SUBMIT ONLY ONE AD PER MONTH AND KEEP THE AD AS SMALL AS POSSIBLE. THE COST WILL BE 25 CENTS PER LINE FOR MEMBERS AND 75 CENTS PER LINE FOR NON-MEMBERS. ADS WILL BE PUBLISHED IN THE ORDER WE RECEIVE THEM. ANY LEFT OVER WILL BE PUT IN THE NEXT MONTHS AD. DEADLINE FOR ADS IS THE 20TH!!!!!!!!!! THE WANT ADS ARE INTENDED FOR PERSONAL USE BY THE MEMBERS AND NON-MEMBERS WHO WISH TO SELL USED HARDWARE OR SMALL PROGRAMS. THEY ARE NOT INTENDED FOR COMMERCIAL USE. IF YOU NEED TO RUN A LARGE AD PLEASE WRITE AND WE WILL SEND YOU A STATEMENT OF OUR POLICY AND THE PRICE. **THERE WILL BE A FULL 3000 NAME MAILING IN MARCH!!!!**

IM-3 in a MILLION
PO BOX 1411
SPRINGDALE
ARKANSAS 72764

BULK RATE
U.S. POSTAGE
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Springdale, Ark
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