

# TERMINAL SOFTWARE

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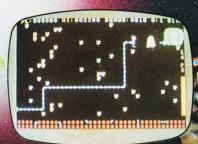
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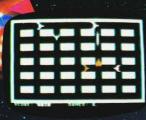
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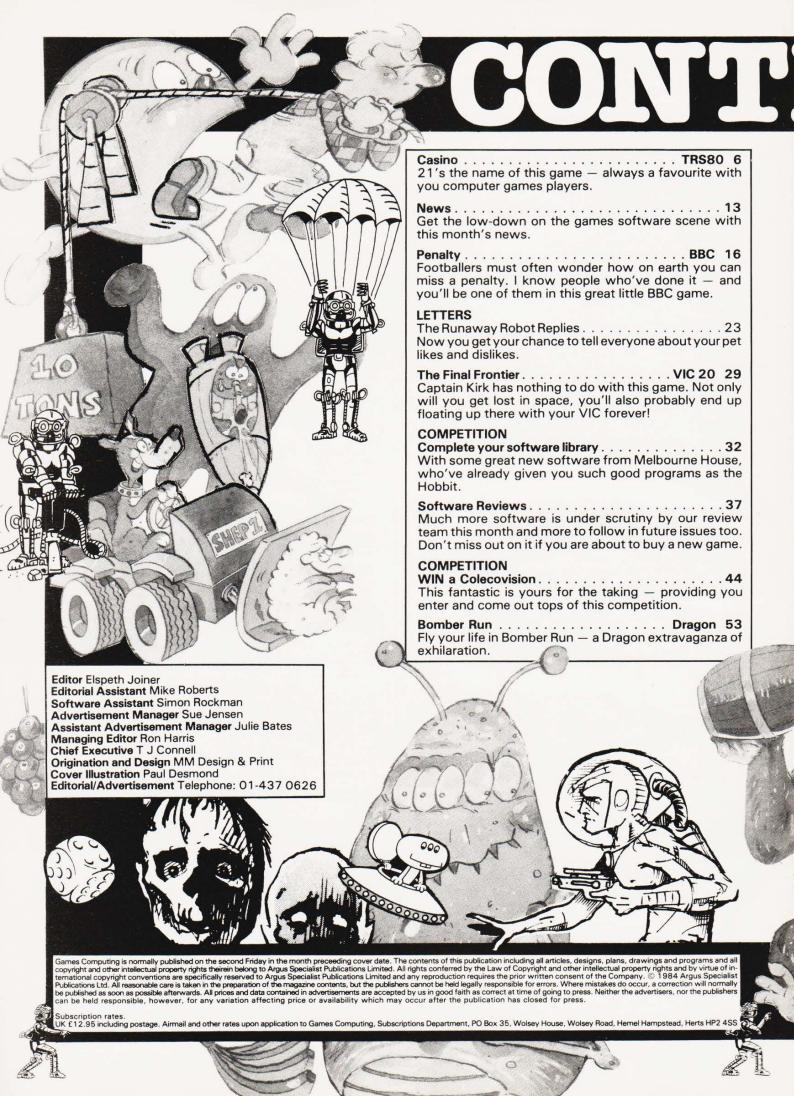
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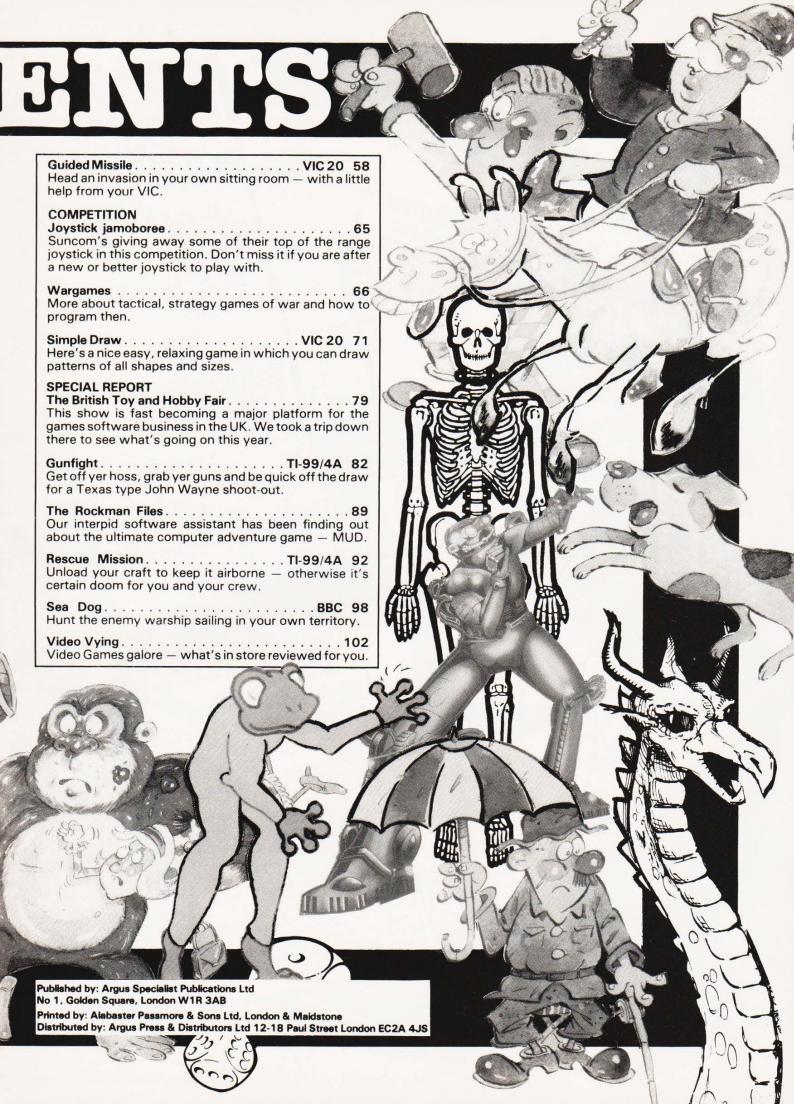
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# 

```
HELLO ":NAME::",", "WOULD YOU LIKE THE INSTRUCTIONS (YZN)
  .
230 A#=1NKEY#:IF A#="" [HEN 230
240 IF A#="" THEN SOUND 200,5:005UB 280:6010630
250 IF A#="N" THEN SOUND 200,5:CL 50:6010630
260 SOUND:,:0
                 REM**instructions*******
  290 CLS
200 GOSUBSS0
310 FRINT897, THE IDEA OF THIS GAME IS TO WINAS MUCH MONEY AS YOU CAN AT THE BLA
CKJACK TABLE IN THE CASING. YOU CAN BET ONE. TWO, THREE, FOUR OR FIVE HINDRE
D POUNDS ON ANY UNE HAND. YOU HAVE FROM THE TIME YOU ENTER THE CASING TO MID
NIGHT TO TRY
320 FRINT8336, TO BREAF THE BANN WHICH CONTAINS 10000 POUNDSAT THE START OF T
          GAME."
 330 GOSUB580
340 GOSUB550
250 FRINT997, "AT THE START OF EACH HAND YOU ARE DEALT YOUR FIRST CARD AND THE N ASKED TO FLACE YOUR BET. THEN YOU ARE DEALT YOUR SECOND CARD, AFTER THAT YOU CAN PRESS IT TO TWIST OR SETO. STICK. THE NORMAL BLACKAGE RULES APPLY, AFTER YOU STICK.

260 FRINT" THE COMPUTER PLAYS ITS CARDS THEN TELLS YOU WHO HAS WON AND THE CURRENT STATE OF YOUR MONEY":
370 GOSUB580
380 GOSUB580
380 FRINT992 "ALT THE FIND OF FACH HAND YOU CAMPAGES!" " 11 1 1 FOR INSTRUCT
     190 FRINT@97."AT THE END OF EACH HAND YOU CANFRESS:"....." 13 '1' FOR INSTRUCT
LONS"..." 23 'E' TO END GAME"..." 33 'R' TO START AGAIN":
  379 PRINTESY, AT THE END OF EACH HAND YOU CAMPIONS", "21 E TO END GAME", "31 R TO 400 GOSUB500 410 GOSUB500 FINTESY, PRESS B FOR BLACKJACK RULLS."; 440 AFFINESY, PRESS A FEY TO CONTINUE"; 450 FRINTESY, THEN 440 450 IF AFE" THEN 440 460 IF AFE" B"THEN RETURN
 530 GOSUB580
540 RETURN
               RETURN
PRINTSE, "INSTRUCTIONS":
PRINTSES, "INSTRUCTIONS":
PRINTSES, "PRESS A FEY TO CONTINUE":
IF INVEY#""THEN 390
SOUNDISO, 5
CLS
                CLS
 GO REM**level***

GO CLS

GO CLS

GO PRINTell, "LEVEL";

GO PRINTell, "LEVEL";

GO PRINTell, "LEVEL";

GO PRINTell, "LIEVELEN;

GO PRINTell, "LIEVELEN;

GO PRINTell, "LIEVELEN;

GO PRINTell, "LIEVELEN;

GO PRINTELS," GO CONTROL "LIEVERANCED";

GO PRINTELS," GO LOUGH CONTROL "LEVEL YOUR WISH (1 TO 5)";

GO PRINTELS," SO LEVERT;

GO FRINTELS, "SO LEVERT;

GO FRINTELS," ENTER THE NUMBER OF THE SKILL LEVEL YOUR WISH (1 TO 5)";

GO FRINTELS," THEN 730

GO FRINTELS," ENTER THE NUMBER OF THE SKILL LEVEL YOUR WISH (1 TO 5)";

GO FRINTELS," ENTER THEN SOUND 1,10:GDT0730

GO CLS

GO PRINTELS," CASINO";

GO PRINTELS," WELL "INAME;

GO PRINTELS," WELL "INAME;

GO FRINTELS," FOR THEN PRINTELS," YOU CHOSE THE HEGINNER'S LEVEL ARE YOUR SURE IT WON'T BE TOO EASY"
                 REM**level****
   828 IF ET=7 THEN PRINT@193, "YOU CHOSE THE HEGINNER'S LEVEL ARE YOUR SURE IT WON'T BE TOO CASY"

820 IF ET=0 THEN PRINT@193, "YOU CHOSE THE INEXPERANCED LEVEL IS THAT WHAT YO U WANT"

840 IF ET=0 THEN PRINT@193, "YOU CHOSE THE AVERAGE LEVEL ARE YOU SURE YOU ARE MR. AVERAGE";
   MR.AVERAGE";
850 IF ET-10THEN PRINT@193,"YOU THINK YOUR GOOD HEY? ";
860 IF ET-11THEN PRINT@193,"SO YOU THINK YOUR AN EXFERT DO YOU! WELL I HOPE YOU
ARE TELLING THE TROTH. ";
870 PRINT@449,"DO YOU WISH TO CHANGE YOUR MINDNOW (Y/N)?";
 976 PRINT@449, "DO YOU WISH TO CHANGE N
886 AFFINEYI
980 IF AFF" THEN SOUNDZ00,5:GOT0630
900 IF AFF" THEN SOUNDZ00,5:GOT0630
910 IF AFF" THEN SOUNDZ00,5:GOT0940
920 SOUNDI,10
920 GOT0800
940 CLS0
950 TIMEK=0
960 DIMA(S2)
970 DIM COM(5)
980 DIM T(2,2)
970 DIM COM(5)
980 DIM T(2,2)
970 BANK-10000
1000 TS-50000
1010 GOT01580
```

```
1500 IFY=25 THEN SOUND150,5 ELSE SOUND 200,5
1510 GOSUB1410
1520 IFX=10 THEN M=1 ELSE M=2
1530 IF Y=25 THEN GOSUB1650:DRAW"S4":GOSUB1860 ELSE COM(M)>CARD
1540 GOSUB1980
1550 IF X= 10 AND Y=25 THEN GOSUB 3130
1550 NEXT X,Y
1570 RETURN
1580 REM
   1968 NEXTA
1978 RETURN
1978 RETURN
1978 RETURN
1978 RETURN
1978 ZETURN
1978 ZETURN
1978 ZETURN
2000 C-CARD-(2*13)
2000 C-CARD-(2*13)
2000 C-CARD-(2*13)
2010 IF Y=25 THEN R=1 ELSE R=2
2020 IF C=12 THEN GOSUB 2068:GOT02050
2030 IF C=13 OR C=10 OR C=9 THEN T(R,1)=T(R,1)=10:GOT02050
2040 T(R,1)=T(R,1)+C+1
2050 RETURN
2050 RETURN
2070 T(R,2)=T(R,2)+1
2070 T(R,2)=T(R,2)+1
2070 T(R,2)=T(R,2)+1
2070 T(R,1)=10 THEN ZETURN
2100 IF T(R,1)>21 ANDT(R,2)>0 THEN2140
2110 IF PN=0 THEN IF T(R,1)=21 AND TW=0 THEN GOT02780
2120 IF PN=0 THEN IF T(R,1)=21 AND TW=0 THEN GOT02780
2130 IF R(R,2)>0 THEN2540
2150 IF T(R,2)>0 THEN2540
2150 IF T(R,2)>0 THEN2540
2170 COLORL.
2180 LINE(25,35+92+(R-1))-(210,80+92+(R-1)).PSET,8F
2190 DRAW*BM30,"+STR*(80+92+(R-1))+"C45268M+0,-IUSRSFDGFDGLSUSRSEM+
```

```
M+4,*5FR2EH4ER2FBH+6,*5U6L2R4BH+4,*6
2200 PLAY"U31L150ABCDGFACBGFFDAEDFBGACBGFEADBGFFAEAFG"
2210 IN EXTL
2220 IF R=1 THEN 3120 ELSE 3400
2230 COLOR2,2
2240 LINE (177,6+92*(R-1))-(240,20+92*(R-1)),PSET,BF
2250 DRAW"BM180,"+STR*(13+92*(R-1))+";C3"
2260 AA*=STR*(1(R,1))
2270 AA*=LR(AA*)
2280 FORP=ZTOAA
2290 G=VAL (MID*(AA*,P,1))
2300 ON 0+1 GOSUB1840,1850,1710,1720,1730,1740,1750,1760,1770,1780
2310 DRAW"BU2"
2320 NEXTP
2330 IF T(R,2)<>1 THEN RETURN
2340 IF T(R,1)>21 THEN T(R,1)=T(R,1)-10:T(R,2)=T(R,2)-1:GOTO2230
2350 IF F=1 THEN F=0:RETURN
2340 DRAW"C4"
2370 DRAW"C4"
2380 AA*=STR*(T(R,1)-T(R,2)*10)
2300 BRAW"C4"
2300 BRAW"C4"
2300 BRAW"C4"
2310 DRAW"C4"
2310 DRAW"C4"
2320 AA*=STR*(T(R,1)-T(R,2)*10)
2320 FAI THEN FEOLER (LECTION CONTROL OF C
            2418 GOTO2270
2418 GOTO2270
2420 RETURN
2438 IKS=1NKEY$
2448 IF IKS=""" THEN2430
2458 IF IKS=""" THEN 2630
2458 IF IKS=""" THEN 2630
2458 IF IKS=""" THEN 2630
2458 REM TWIST
2558 SOUND 150,5
2518 IF TWIST>3 THEN 2710
2520 X=60+48=TWIST
2538 IF RET 1THEN Y=25 ELSE Y=25+92
2548 GOSUB1020
2558 GOSUB1650
2578 DRAW"S4"
2568 GOSUB1860
2579 DRAW"S4"
    2-88 GOSUB2998
2618 IF TWIST)2 THEN 2718
2628 RETURN
2638 REFLYRN
2638 REFLYRN
2648 T(R, 2)6
2648 T(R, 2)6
2659 GOSUB2998
2678 DRAW*CABRISO, **STR$ (93+92*(R-1))+"FRZEH4ERZFEM+6,+SU6LZR4EM+6,+6RZL4RZU6LZR4EM+6,+6RZL4RZU6LZR4EM+6,+6RZL4RZU6LZR4EM+6,+6RZL4RZU6LZR4EM+6,+6RZL4RZU6LZR4EM+6,+6RZL4RZU6LZR4EM+6,+6RZL4RZU6LZR4EM+6,+6RZL4RZU6LZR4EM+6,+6RZL4RZU6LZR4EM+6,+6RZL4RZU6LZR4EM+6,+6RZL4RZU6LZR4EM+6,+6RZL4RZU6LZR4EM+6,+6RZL4RZU6LZR4EM+6,+6RZL4RZU6LZR4EM+6,+6RZL4RZU6LZR4EM+6,+6RZL4RZU6LZR4EM+6,+6RZL4RZU6LZR4EM+6,+6RZL4RZU6LZR4EM+6,+6RZL4RZU6LZR4EM+6,+6RZL4RZU6LZR4EM+6,+6RZL4RZU6LZR4EM+6,+6RZL4RZU6LZR4EM+6,+6RZL4RZU6LZR4EM+6,+6RZL4RZU6LZR4EM+6,+6RZL4RZU6LZR4EM+6,+6RZL4RZU6LZR4EM+6,+6RZL4RZU6LZR4EM+6,+6RZL4RZU6LZR4EM+6,+6RZL4RZU6LZR4EM+6,+6RZL4RZU6LZR4EM+6,+6RZL4RZU6LZR4EM+6,+6RZL4RZU6LZR4EM+6,+6RZL4RZU6LZR4EM+6,+6RZL4RZU6LZR4EM+6,+6RZL4RZU6LZR4EM+6,+6RZL4RZU6LZR4EM+6,+6RZL4RZU6LZR4EM+6,+6RZL4RZU6LZR4EM+6,+6RZL4RZU6LZR4EM+6,+6RZL4RZU6LZR4EM+6,+6RZL4RZU6LZR4EM+6,+6RZL4RZU6LZR4EM+6,+6RZL4RZU6LZR4EM+6,+6RZL4RZU6LZR4EM+6,+6RZL4RZU6LZR4EM+6,+6RZL4RZU6LZR4EM+6,+6RZL4RZU6LZR4EM+6,+6RZL4RZU6LZR4EM+6,+6RZL4RZU6LZR4EM+6,+6RZL4RZU6LZR4EM+6,+6RZL4RZU6LZR4EM+6,+6RZL4RZU6LZR4EM+6,+6RZL4RZU6LZR4EM+6,+6RZL4RZU6LZR4EM+6,+6RZL4RZU6LZR4EM+6,+6RZL4RZU6LZR4EM+6,+6RZL4RZU6LZR4EM+6,+6RZEH4A,+6U6RZEH4A,+6U6RZEH4A,+6U6RZEH4A,+6U6RZEH4A,+6U6RZEH4A,+6U6RZEH4A,+6U6RZEH4A,+6U6RZEH4A,+6U6RZEH4A,+6U6RZEH4A,+6U6RZEH4A,+6U6RZEH4A,+6U6RZEH4A,+6U6RZEH4A,+6U6RZEH4A,+6U6RZEH4A,+6U6RZEH4A,+6U6RZEH4A,+6U6RZEH4A,+6U6RZEH4A,+6U6RZEH4A,+6U6RZEH4A,+6U6RZEH4A,+6U6RZEH4A,+6U6RZEH4A,+6U6RZEH4A,+6U6RZEH4A,+6U6RZEH4A,+6U6RZEH4A,+6U6RZEH4A,+6U6RZEH4A,+6U6RZEH4A,+6U6RZEH4A,+6U6RZEH4A,+6U6RZEH4A,+6U6RZEH4A,+6U6RZEH4A,+6U6RZEH4A,+6U6RZEH4A,+6U6RZEH4A,+6U6RZEH4A,+6U6RZEH4A,+6U6RZEH4A,+6U6RZEH4A,+6U6RZEH4A,+6U6RZEH4A,+6U6RZEH4A,+6U6RZEH4A,+6U6RZEH4A,+6U6RZEH4A,+6U6RZEH4A,+6U6RZEH4A,+6U6RZEH4A,+6U6RZEH4A,+6U6RZEH4A,+6U6RZEHA,+6U6RZEH4A,+6U6RZEH4A,+6U6RZEHA,+6U6RZEHA,+6U6RZEHA,+6U6RZEHA,+6U6RZEHA,+6U6RZEHA,+6U6RZEHA,+6U6RZEHA,+6U6RZEHA,+6U6RZEHA,+6U6RZEHA,+6U6RZEHA,+6U6RZ
                             2590
                                                                                                       G0SUB1980
    2748 DRAW"8H+5, +6HU4ER2FHL2GD4FR2EBM+4, +1U6BM+0, +3RE3G3F2"
2758 $(R)=1
2768 $SOUNDIS0,3
2778 IF REITHEN 2888 ELSE 3120
2788 REM***pantoon***
2799 IF REI THEN 2988 ELSE 3120
2888 DRAW"BM100,"+STR*(2)**C3U6B7FDGL3EM+0,*IRGEU4HL2GD4FBM+7,*OU6FBU6BM*0,***eU6L
2888 DRAW"BM100,"*STR*(2)**C3U6B7FDGL3EM+0,*IRGEU4HL2GD4FBM+7,*OU6FBU6BM*0,**eU6L
2818 If (R,2)**0
2818 If (R,2)**0
2828 $(R)**=1
2838 PN=1
2838 PN=1
2848 SOUNDIS0,5
2858 GGSUB2390
2878 IF R=2 THEN 3420
2888 REMCom cards
2898 FORD=IT010801KEXTD
2908 FORS*10T060 STEPS0
2918 IF x=10 THEN M=1 ELSE M=2
2928 CARD-COM*(M)
2938 TW=0
2948 PN=2
2958 Y=02+25
2958 Y=02+25
2968 SOUND280,5
2978 GGSUB1860
3000 NEXTX
3018 GGSUB2890
3008 PSXTX
3018 GGSUB2890
                3000 NEXTX
3010 GOSUB2090
3020 R=2
3030 IF T(2,1)<16 THEN GOSUB2480
3040 IFF(2,1)>15 AND T(2,1)<18 THEN 3060
3050 GOTO3080
3050 FRNNO(3)
3070 IF RN =1 THEN GOSUB2480 ELSE 3110
3080 IF T(2,1)>17 THEN GOTO3100
3090 GOTO3020
                    3100
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                    3110 GOSUB2630
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3320 LINE (120,53)-(230,90),FSET,BF
3330 FORD=1T0100:NEXTD
3340 FORD=1T0100:NEXTD
3350 NEXTF
3350 NEXTF
3350 DRAW"BMI50,6054"
3370 COLOR2,2
3370 CUOR2,2
             3390 CILCR2,2
3390 RETURN
3390 RETURN
3400 REMEND
3410 FORD=1TO 1000:NEXTD
3420 FORD=1TO 1000:NEXTD
3430 NEXTO
3430 NEXTO
3430 FT T(2,1)>21 THEN WINNER=1:GOTO3530
3430 FT T(2,1)>21 THEN WINNER=1:GOTO3530
3450 IF T(2,1)>21 THEN WINNER=2:GOTO3530
3450 IF T(2,1)>21 THEN WINNER=2:GOTO3530
3460 IF T(2,1)>(1)*THEN WINNER=1
3470 IF T(2,1)>(1)*THEN WINNER=1
3490 IF S(1)*S(2)*THEN WINNER=1
3500 IF S(1)*S(2)*THEN WINNER=1
3510 IF S(1)*S(2)*THEN WINNER=1
3520 IF S(1)*S(2)*THEN WINNER=1
3530 IF S(1)*S(2)*THEN WINNER=1
3530 IF S(1)*S(2)*THEN WINNER=1
3530 IF WINNER*ITHEN A#="SORRY "+NAME#+"!";B#="THE COMPUTER WON THAT HAND"
3550 IF WINNER*ITHEN A#="SORRY "+NAME#+"!";B#="THE COMPUTER WON THAT HAND"
3550 IF WINNER*ITHEN A#="SORRY "+NAME#+"!";B#="THE COMPUTER WON THAT HAND"
3550 IF WINNER*ITHEN A#=NAME#:B#="YOU WON THAT HAND"
3550 ITHE=INT(ITIME**20/3000)
3550 ITHE=INT(ITIME**C00/S000)
3550 ITHE=INT(ITIME**C00/S000)
3560 TIME=HOURS**HINITES/100**SORD**HINITES**HINITES**HINITES**HINITES**HINITES**HINITES**HINITES**HINITES**HINITES**HINITES**HINITES**HINITES**HINITES**HINITES**HINITES**HINITES**HINITES**HINITES**HINITES**HINITES**HINITES**HINITES**HINITES**HINITES**HINITES**HINITES**HINITES**HINITES**HINITES**HINITES**HINITES**HINITES**HINITES**HINITES**HINITES**HINITES**HINITES**HINITES**HINITES**HINITES**HINITES**HINITES**HINITES**HINITES**HINITES**HINITES**HINITES**HINITES**HINITES**HINITES**HINITES**HINITES**HINITES**HINITES**HINITES**HINITES**HINITES**HINITES**HINITES**HINITES**HINITES**HINITES**HINITES**HINITES**HINITES**HINITES**HINITES**HINITES**HINITES**HINITES**HINITES**HINITES**HINITES**HINITES**HINITES**HINITES**HINITES**HINITES**HINITES**HINITES**HINITES**HINITES**HINITES**HINITES**HINITES**HINITES**HINITES**HINITES**HINITES**HINITES**HINITES**HINITES**HINITES**HINITES**HINITES**HINITES**HINITES**HINITES**HINITES**HINITES**HINITES**HINITES**HINITES**HINITES**HINITES**HINITES**HINITES**HINITES**HINITES**HINITES**HINITES**HINITES**HINITES**HINITES**HINITES**HINITES**HINITES**HINITES**HINITES**HINITES**HINITES**HINITES
                               3390 RETURN
                  3720 PRINT@224, "THE BANK CONTAINS"; BANK; "POUNDS";
2730 PRINT@321, "THE TIME IS" ITHE: "MITHERE IS ONLY"; TR; "INTIL THE TABLES CLOSE"
3740 PRINT@449, "PRESS ANY KEY FOR NEXT HAND EXCEPT 1', E OR R.";
3750 IF TR<0 THEN FOR D=1101000:NEXTD:SOUNDS0, 20:GOTO4900
3770 IF BANK<-0 THEN FOR D=1101000:NEXTD:SOUNDS0, 20:GOTO4900
3770 IF BANK<-0 THEN FOR D=1101000:NEXTD:SOUNDS0, 20:GOTO4900
3770 IF BANK<-0 THEN FOR D=1101000:NEXTD:SOUNDS0, 20:GOTO4900
3770 IF ANS="""THENGOSUB290
3800 IF ANS="""THENGOSUB290
3810 CLS0
3810 CLS0
3810 CLS0
3810 T(1,1)=0:T(1,2)=0:T(2,1)=0:T(2,2)=0
3840 FORX=ITOS:ACC, "O=NEXTX
3850 FORX=ITOS:ACC, "O=NEXTX
3850 FORX=ITOS:ACC, "O=NEXTX
3850 FORX=ITOS:ACC, "O=NEXTX
3850 FORX=ITOS:ACC, "O=NEXTX
3910 CLS
3920 PRINT@1:, "casino";
3930 PRINT@10:, "ASSOUNCE:" NAME#; """, "THE TABLES ARE NOW CLOSING YOU WINNINGS AMOUNT TO"; TS; "YOU DID NOT BREAK THE BANK BY"; BANK; " POUNDS."
3930 PRINT@10:, "Casino";
3930 PRINT@10:, "Casino";
3930 PRINT@10:, "CASINO";
3930 PRINT@10:, "CASINO";
3930 PRINT@10:, "THEN SOUND200, S; RUN
4020 IF As="" THEN SOUND200, S; RUN
4020 IF As="" THEN SOUND200, S; CLS:END
4030 SOUND; 10:GOTO390
4040 REM=**" THEN SOUND200, S; CLS:END
4030 PRINT@14, "Casino";
4000 PRINT@14, "Casino";
1820 IF A#="N" THEN SOUND200.5:CLS:END
1830 SOUND1,10:GOTO:9980
1840 REM**run out of money*****
1850 CLS
1840 REM**run out of money*****
1850 CLS
1
```

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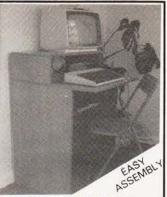
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Unit 1 & 2, Techno Park, Newmarket Road, Cambridge



LUNAR RESCUE (48K SPECTRUM)
A team of research scientists are trapped on the moon and you have to pilot the rescue pod from the mother ship and ferry them back safety. But you have only rescue pod from the mother snip and ferry them back safely. But you have only space for one scientist at a time. 100% M/C action with super smooth HI-RES GRAPHICS AND JOYSTICK OPTION.

LIBERATOR (16K/48K SPECTRUM)
This game tests your aim and reactions as you command a gunsight on a homeward bound space freighter. Your cargo is the royal treasures of the empire and many people want them. people want them.
A machine code presentation that should have you hooked.

THUNDERHAWK (48K SPECTRUM)
Based on the popular arcade game
Pheonix. This 100% full colour epic
pitches you against the evil Albertros
who are set to destroy your race, five
levels of fast action bring you to the
command centre of battle fleet, can you
finish the job. WITH JOYSTICK OPTION.

GOLF (48K SPECTRUM)
Using M/C graphic routines, a game to absorb the keen novice and the scratch player. Play on a 9 or 18 hole course, with full selection of clubs. Along the greens and fairways hours of addictive sport can be had.

VOYAGER (VIC 20 8 OR 16K)
The mission is simple, but its completion is far from being so. As captain of starship you have all the best facilities at your disposal. Unfortunately the klingons oppose you. A great M/C version of this classic computer game.

PICTURE PUZZLE (DRAGON 32)
With HI RES graphics and M/C. You are set the problem of putting the picture back together. Test your skill against the dragon 32 computer. A game guaranteed to hold you spell bound for hours.

ANDROID INVADERS (DRAGON 32)
In a change of tactics the beings beyond the stars have developed an android of human form to do their dirty work. And with the aid of sensor jamming they may prove formidable. Using full colour, M/C, hi-re graphics this game can offer up to 21 levels of combat.

SPHINX (VIC 20 16K)
A riveting, full colour graphic adventure.
That pits you against the spells and guardians of the tomb. In your quest to uncover the treasure of the pharoahs. This game will have you enthralled.

BIRD OF PREY (BASIC VIC 20)
Evil baron von fritz is out to kill his cousin, the much loved Prince Rupert. The Baron intends to throw the prince from his plane into the sacred fire pit. But you the eagle of the north will make every endeavour to save your friend Prince Rupert. With colour, sound, this M/C game is a must. is a must.

### ALSO AVAILABLE:

Demon Driver Basic VIC20 - £5.95 Lunar Rescue Basic VIC20 — £5.95 Apple Bug/Crazy Climber Basic VIC 20 — £5.95

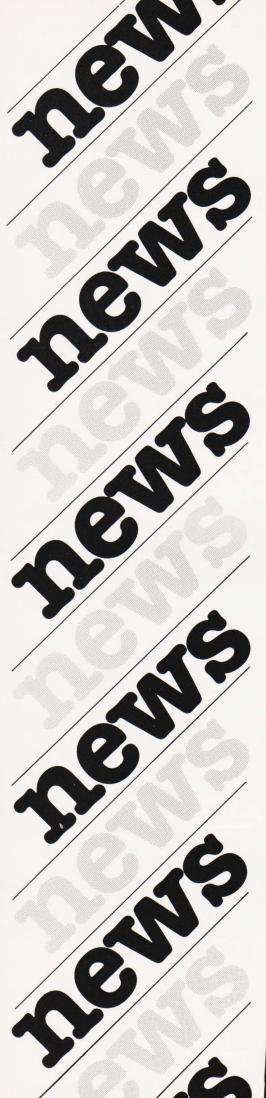
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### Adam Arrives at last

The CBS Colecovision is to be expanded into a full blown computer system soon, with the addition of the Adam.

Expansion Module 3 turns the Colecovision into an Adam microcomputer. The Adam has 64K of RAM, a full typewriter keyboard, a built-in high speed cassette drive, and an 80 column daisywheel letter quality printer.

The computer is supplied with Smart BASIC on tape and a game, also on tape. A word processor is built in to use the printer.

The computer consists of three parts, the printer, the keyboard which is detached on a coiled cable, and the central processor box which contains the extra 64K and the tape drive.

The computer will be able to support another tape drive and possible a disc drive.

The central processor box plugs into the expansion slot on the front of the Colecovision game console, giving the system a very large 'footprint', that is it takes up a lot of desk or table space.

A dedicated Adam will be available later on in the year that does not need to be plugged in to the Colecovision and has a much smaller 'footprint' but can still have a slot to take standard cartridges and Adam joysticks. Adam joysticks are the same as the Colecovision sticks except that they are a cream colour.

The stand alone unit and the plug in unit will be totally compatible. No UK price has yet been set but the price in America is about \$700.

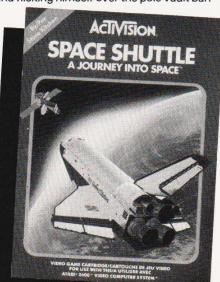
CBS are at Headley Rd East, Woodley, Berks.

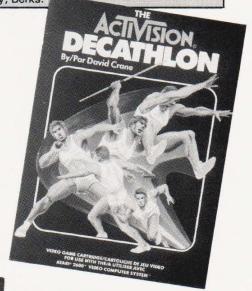
### **Activision Action**

New from Activision for the Atari VCS are Decathlon and Space Shuttle A Journey Into Space.

Decathlon is modelled on the olympic decathlon event. You play the part of a competing athlete. Running is accomplished by moving your joystick back and forth, the faster you move the stick the faster your character moves. Your alter ego is made to jump, throw and pole vault by pressing the fire button.

The events that you have to compete in are 100m, 400m, 1500m, 110m hurdles, javalin, shot put, long jump, high jump, pole vault, and discus. The high jump and pole vault are very realistic with the little man doing a flop over the bar and flicking himself over the pole vault bar.





Up to four players can compete with each other for points just like in a real decathlon.

Space Shuttle is a simulation of a space shuttle flight to rendezvous with a satellite and return to earth again.

There are full graphics throughout the flight with a view out of the cockpit window. Half the screen is taken up with instrumentation.

Activision are also releasing their best selling River Raid for the Mattel Intellivision and Beam Rider for the CBS Colecovision.

All Activision cartridges are £29.95 except those for the Intellivision which retail for £24.95.

Activision are at CGL House, Golding Hill, Loughton, Essex 1G10 1RR.



### New Releases . . .

Mission Software have just released a novel game for the 48K Spectrum and the Dragon 32 computers. Called Mission 1 — Project Volcano, the game is a spy adventure game with secret agents battling it out around the eastern bloc.

With the game you get a passport, various maps, briefings, and instructions also included. The idea is to break the secret code used by the baddies.

So if you are interested in becoming a secret agent, Project Volcano is available mail order for £6.95 from Mission Software, Command Headquarters, 1st floor, 49 Grange Rd, Darlington, Co Durham DL1 5NB.

Artic Computing have two new releases for the Spectrum 48K called Monkey Bizness and Bear Bovver.

Monkey Buizness is a 'Kong' based game with the monkey taking our hero's girl up a building. The idea of the game is to get her back. This is not as easy as it sounds as our monkey friend is throwing barrels at you.

Bear Bovver finds you as a bear driving a Sinclair electric buggy. But the car eats up batteries so Ted Bear must be in continual search for batteries for his car. It is not easy to do this though as there are bovver bears out to stop little Ted Bear and if that isn't enough they will set their pet Nasher on to you.

Both games retail at £6.95. Artic are also releasing their much acclaimed adventure series for the Commodore 64. These adventures have previously only been available on the 48K Spectrum.

Artic are at Main St, Brandesburton, Driffield YO25 8RL.

### Sinclair and Oric Up-grades

Lots of new machines have been released recently. Sinclair have brought out the long awaited QL computer and Oric have re-engineered the Oric and called it the Oric Atmos

The QL is aimed at the BBC market at £399 and comes with 128K of RAM, a real keyboard, twin microdrives, 512 by 256 graphics resolution in four colours, or 256 by 256 resolution in eight colours with flashing, and two joystick ports are included as standard but need an adaptor.

A new version of Sinclair BASIC called Super BASIC is in the QL taking up 32K. There is also a ROM cartridge port for the QL that is similar to the Spectrum Interface Two cartridge port but it will not accept the same cartridges.

Oric have set their sights slightly lower with the Atmos. At £170 this machine falls between the Spectrum and the Commodore 64, price wise. The only external difference between the Atmos and the Oric is the case. The top of the Atmos has a real full stroke keyboard that has a very nice feel to it. The colour has changed to a tasteful black with a garish red trim.

black with a garish red trim.

The BASIC has altered clearing up the bugs that have caused a lot of problems with the original Orics and bringing in improved cassette operation with the saving and recall of DATA on to tape, a PRINT AT command and controlled auto repeats on the keyboard. The Oric manual has also been totally re-written by an independent author.

To coincide with the Atmos launch, the new re-styled disc drives were announced. Also 'dressed' in black with red trim the drives work with the Hitachi three inch format, and include a full disc operating system to use files on the disc effectively with 13 new commands.

The Oric printer has also been given a new lease of life and now comes in the Atmos colours, but is otherwise identical to the Oric printer.

The Oric 1 will no longer be manufactured. You can contact Oric at Coworth Park, London Rd, Ascot, Berkshire SL5 7SE Sinclair are at 23 Motcomb St, London SW1 X1B.

### Colecovision Extras

CBS have announced some new add-ons for the best selling Colecovision system.

The Atari adaptor box is now on shop shelves after a long delay following court proceedings involving CBS and Atari. The box plugs in the expansion port and has all the switches that the Atari VCS/2600 has such as colour/BW, left and right difficulty, game select, and reset. It also has two slots for Atari joysticks and of course an Atari catridge slot.

This module turns your Colecovision into an Atari VCS and will run all of the VCS cartridges that are currently in the shops.

Two controllers are due for the release in March. The Super Controller is a device looking like the hilt of a sword with a grip for your hand that has four buttons on it for your fingers, there is a guard that goes over your hand and on top if this is the joystick, a 12 button keypad and a paddle like control

The Roller Controller is a track ball that the standard joysticks plug into. A Roller Controller, or track ball as it is usually called, works by spinning a ball mounted in it in the direction that you wish to go. This technique was first used by Atari in their famous Missile Command arcade game.

Both these controllers have special games written for them, also due out in March, they are Rocky for the Super Controllers, and for the Roller Controller there is Victory and Slither.

Rocky, as its title suggests, is a boxing game featuring a very realistic display of the ring with Rocky against Clubber. Victory is a terrain following Zap the aliens Scramble type of game. Slither, however, is a novel game involving you fighting against snakes, tyrannosaurs, and pterodactyls in a desert.

CBS Electronins are at Headley Rd East, Woodley, Berks.



### **Penetrating Sofware**

Penetrator, the best selling Melbourne House Spectrum game, is shortly to be released for the Commodore 64.

The idea of the game is to fly across the enemy's territory avoiding the usual hazards of missiles and other nasties. When you have gone through this you need to destroy an illegal cache of neutron bombs.

One feature of Penetrator is the ability to edit or re-design the terrain to suit your own needs.

Also out from Melbourne House shortly is the long awaited H.U.R.G. which stands for High resolution User friendly Real time Games designer.

As its titles suggests HURG is a program that allows you to design your own

machine code games from scratch with no knowledge of machine code.

HURĞ was due to be released last year but extensive modifications and improvements have been made to the original design and Melbourne House say that it is the most advanced utility program of its kind.

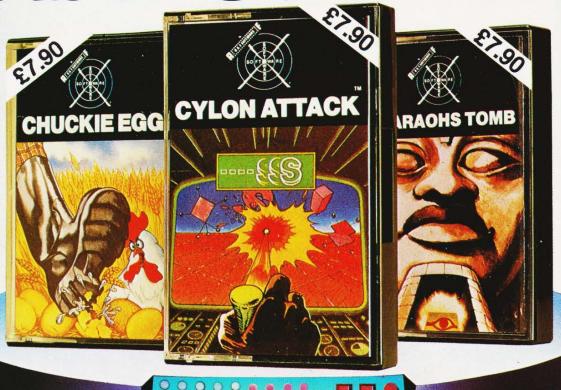
Melbourne House are running a £3,000 competition to coincide with the launch for the best program designed with HURG. Details can be obtained from Melbourne House.

The *first* copies of HURG will be given away in *Games Computing's* prize competition this month, which you'll find elsewhere in this issue.

HURG costs £14.95 and Melbourne House are at Castle Yard House, Castle Yard, Richmond TW10 6TF.







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Unit 8, Canalside Industrial Estate, Woodbine Street East, Rochdale, Lancs. OL16 5LB. Tel: 0706 341111 Tired of playing endless space games? Well then plant your feet firmly back on the ground again and play this football game. Your team are through to the European Cup. Unfortunately through your negative tactics you always draw 0-0. Which means the tie has to be settled by penalites, the first team to score five goals going through to the next round. (Where doughtless you will draw 0-0 again!)

When playing the game if the attacker on the screen is blue shirtled you decide whether to kick the ball Right, Left, or Straight ahead by using the >,< and ? keys respectively. The computer will automatically assume the keepers roll. A word of warning you may out gues the keeper but nerves or just plain lack of skill may mean that you miss kick and the ball will sail wide of the goal!

If the attacker is red shirted you on your keepers cloth cap and decide which way you are going to dive using the > ,< and ? keys as before. The computer will not shoot until you have decided which way you are going.

### Program Description

Line No. **Function** Introduce the game if its 10-40 the first round. 50-60 Sets shirt colour for this cycle. 70-500 Displays pitch, goal, crowd, attacker, ball and stationary keeper.



60-680 Waits for you to input shot direction if its your turn. Or randomly works out the shot direction if

you are in goal. 620,680,690 Allows a random miss to

occur. 720-980

**PROCKRIGHT** 

PROCKLEFT

Waits for you to input dive direction if you are in goal or works it out randomly if you are attacking.

990 1000-1090 Counts cycles.

Checks to see if someone has won if you have to go next round. If computer has game ends.

moves the keeper to the right.

moves the keeper to the left.

**PROCPAUSE** (L%) PROCPITCH

**PROCBALL PROCCHECK** 

**PROCSCARF PROCMAN** 

**PROCBLANK** 

**PROCSCORE** 

netting. adds 1 to score if a goal has been scored and

GAMES COMPUTING APRIL 1984

pauses for a set time.

moves ball on screen.

pitch.

attacker.

draws white lines on

checks to see if goal,

save or miss has occured sets up appropriate scarf colour if any of those events has occured.

displays scarfs in crowd.

sets up and displays

blanks out stationary

keeper and replaces him

with background of





### Variables Used

x%,Y%,Z%,C%,W%,S%,D%,V%,J%,

T & E = tab positions. 0%, P% = graphic of graphic co-ordinates of the

ball.

U% = counts number of cycles.

ROUND = round of cup. K= U% / 2. L= shirt colour. p= 1 or 2.

J=

MA =

count in repeat loop. tab co-ordinates of center of X,Y =

goal.

input shot direction. H= input dive direction.

random number of calculate shot direction or miss occur-

M =random number to calculate keepers direction of move-

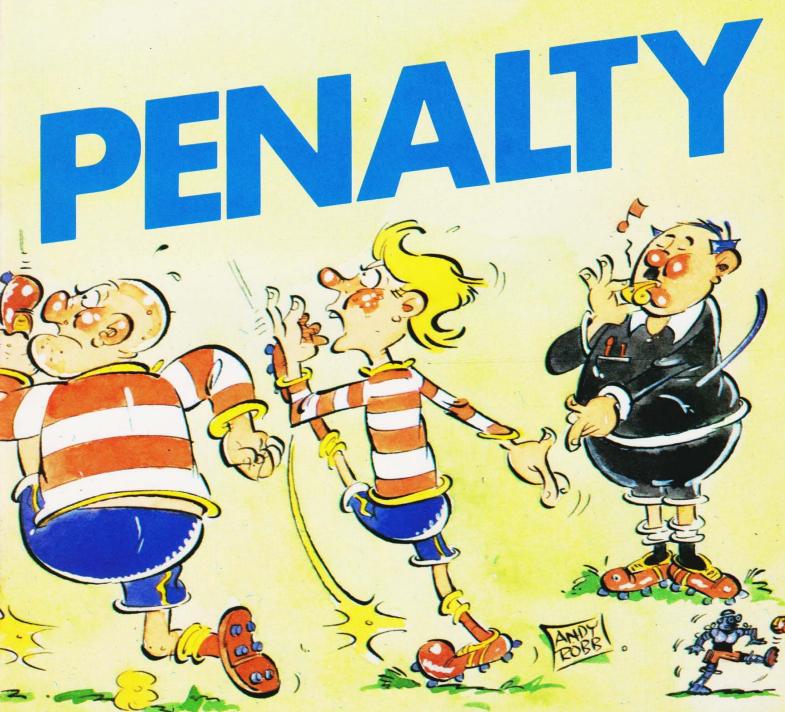
ment.

B= computers score. N= your score. C= dive direction. F= shot direction. save or goal. input to continue.

S=

### SUGGESTED ADDITIONS

With a knowledge of sound it should be relatively easy to add appropriate noises to the program such as whistle, crowd rattles and a tune on completing a round successfully. So why not have a go it could add to the fun. If you do, let me know.



```
30 U%=0:B=0:N=0:I=0
40 PROCTITLE
                                                                                                         560 IF L=1 THEN GOTO620
570 A=INKEY(0)
                                                                                                          570
                                                                                                         570 A=1NKEY(0)

580 IF A=44 F=-1

590 IF A=46 F=1

600 IF A=47 F=0

610 IF A=-1 THEN GOTO570

620 J=RND(11)
  50 K=U% MOD 2
  60 IF K=0 L=4 ELSE L=1
  70 MODE2
  80 *FX 15,1
90 P=1:C=0
                                                                                                        620 J = RND(11)
630 IF L=4 THEN GOTO 670
640 IF J<=3 THEN F=1
650 IF J>3 AND J<=6 THEN F=-1
660 IF J>3 AND J<=9 THEN F=0
670 IF J=10 F=2
680 IF J=11 F=-2
680 IF J=11 F=-2
690 VDU23,249,0,0,254,0,0,254,0,0
700 VDU23,250,128,192,255,254,254,255,192,128
710 VDU23,251,63,0,6,7,7,6,0,63
720 IF L=4 THEN GOTO790
730 H=INKEY (0)
740 IF H=44 THEN GOTO 820
750 IF H=46 THEN GOTO 880
760 IF H=47 THEN GOTO 940
770 IF H=-1 THEN GOTO730
VDU5
 100 PROCSCORE
110 P=0
120 VDU4
 130 COLOUR7
140 COLOUR128
150 VDU 23,240,24,60,126,219,255,102,60,24
160 FORXX=0TO19
170 FORY%=2TO10
 180 PRINT TAB(X%, Y%);: VDU 240
190 NEXT ,
200 COLOUR130
210 FORZ%=0T019
220 FORC%=15 TO 30
230 PRINT TAB(Z%,C%);:VDU 32
240 NEXT
250 COLOURO
                                                                                                                  VDU5
                                                                                                          780
260 COLOUR135
                                                                                                          790 M=RND(3)
                                                                                                         800 IF M=3 THEN GOTO 940
810 IF M=1 THEN GOTO 820ELSE 880
270 FORW%=11TO 14
280 PRINTTAB(5,W%);:VDU 32
290 PRINTTAB(13,W%);:VDU 32
                                                                                                         820 REPEAT
300 NEXT
                                                                                                                IF MA=0 THEN PROCBLANK
310 FORS%=5T013
                                                                                                         840 PROCKLEFT
320 PRINTTAB(5%,11);:VDU32
                                                                                                         850 PROCBALL
860 UNTIL MA=2
330 NEXT
340 VDU23,244,255,85,255,85,255,85,255,85
350 FORDX=6T012
360 FORVX=12 TO 14
                                                                                                         87Ø GOTO98Ø
                                                                                                         880 REPEAT
890 IF MA=0 THEN PROCBLANK
900 PROCKRIGHT
370 PRINTTAB (D%, V%); : VDU 244
380 NEXT
                                                                                                         910 PROCBALL
390 PROCEITCH
                                                                                                         920 UNTIL MA=2
400 VDU4
                                                                                                         930 GOTO980
940 REPEAT
400 VDU4
410 VDU23,241,0,0,0,0,0,60,60,24
420 VDU23,242,255,255,189,189,189,60,60,36
430 VDU23,243,36,66,129,66,36,195,0,0
440 COLOUR128:COLOUR3
450 PRINTTAB(9,14);:VDU243
460 PRINTTAB(9,13);:VDU242
                                                                                                         950 PROCEALL
                                                                                                         960 MA=MA+1
                                                                                                         970 UNTIL MA=2
                                                                                                         980 PROCPAUSE (150)
                                                                                                         990 U%=U%+1
470 COLOURZ
                                                                                                       1000 IF B=5 OR N=5 THEN GOTO 1020
1010 GOTO50
48Ø FRINTTAB (9,12):: VDU241
                                                                                                       1020 VDU4
500 PROCPAUSE (100)
                                                                                                        1030
                                                                                                                   IF N=5 THEN ROUND=ROUND+1 :GOTO 20
510 VDU23,246,0,0,127,0,0,127,0,0
520 VDU23,247,1,3,255,127,127,255
                                                                                                        1040 VDU4
                                                                                                       1050 PRINTTAB(4,16); "GAME OVER"
1060 PRINTTAB(3,18); "YOU LOST ";B;"-";N
1070 PRINTTAB(4,20); "IN ROUND";ROUND
1080 VDU31,0,31
530 VDU23,248,252,0,96,224,224,96,0,252
                                                                                                       1080 VD
                                                                                                        1100
                                                                                                                 DEF PROCKRIGHT
                                                                                                      1110 J%=(X%-1)+MA
1120 VDU4,17,0,17,135:PRINTTAB(J%,Y%);:VDU244,17,3,17,
128,246,247,248,5
                                                                                                                                                                   GAMES COMPUTING APRIL 1984
```

ROUND=1

MODE 4

10

540 MA=0:X%=9:Y%=14:X=X%:Y=Y%:C=0 550 0%=600:P%=140

```
1680 VDU23,253,237,108,237,108,237,108,237,108
1690 PRINTTAB(T,E);:VDU253
    1130 MA=MA+1
     1140
    1150 ENDPROC
                                                                                                1700 NEXT
    1160 DEF PROCKLEFT
                                                                                                1710 PROCSCORE
    1170 J%=(X%-2)-MA
1170 J%=(X%-2)-MA
1180 PRINTTAB(J%,Y%);:VDU 4,17,3,17,128,251,250,249,17
                                                                                                1720 ENDPROC
                                                                                                1730 DEF PROCMAN
    0,17,135,244,5
                                                                                                1740 VDU23,254,36,36,36,36,36,102,0
1750 GCOL0,7
1760 MOVE600,60:VDU5,254
     1200 C=1
    1210 ENDPROC
                                                                                                1770 MOVE600,120:VDU241
    1220 DEF PROCPAUSE(L%)
                                                                                                1780 GCOLØ.L
    1230
            TIME=0
                                                                                                1790 MOVE600,90:VDU242
    1240 REPEAT UNTIL TIME=L%
1250 ENDPROC
                                                                                                1800 VDU4
                                                                                                1810 ENDPROC
    1260 DEF PROCPITCH
                                                                                               1820 DEF PROCBLANK
                                                                                               1830 VDU4,17,0,17,135
1840 FOR Q=1TO3
     1270
           GCOLØ,7
    1280 MOVE 250,540
1290 DRAW 250,450
                                                                                               1850 PRINTTAB(X,Y);:VDU244
     1300 DRAW 960,450
                                                                                               1860 Y=Y-1
     1310 DRAW 960,540
                                                                                                1870 NEXT
    1320 MOVE 10,540
1330 DRAW 10,30
1340 DRAW 1270,30
                                                                                               1880 ENDPROC
                                                                                               1890 DEF PROCSCORE
1900 IF P=1 THEN GOTO1930
    1350 DRAW 1270,540
1360 VDU 23,252,0,0,24,60,60,24,0,0
1370 MOVE600,140:VDU5,252
                                                                                                1910
                                                                                                        IF L=1 AND I=1 B=B+1
                                                                                                        IF L=4 AND I=1 N=N+1
                                                                                               1920
                                                                                               1930 VDU4
     1380 ENDPROC
                                                                                               1940 COLOUR128: COLOUR4
    1390 DEF PROCBALL
1400 FOR Y=1 TO 106
1410 GCOL0,7:MOVE 0%,P% :VDU5,252
                                                                                               1950
                                                                                                        FRINTTAB(0,0); "YOUR SCORE "; N;
                                                                                               1960 COLOUR1
                                                                                                        PRINT" COMP ":B
                                                                                               1970
     1420 PROCPAÚSE(2)
                                                                                               1980 VDU5
    1430 GCOLØ,2:MOVE 0%,F% :VDU252
1440 F%=F%+2:0%=0%+F
                                                                                               1990 ENDPROC
                                                                                               2000 DEF PROCTITLE
    1450 NEXT
                                                                                               2010 CLS
    1460
           GCOL0,7:MOVE 0%,P% :VDU5,252
                                                                                               2020 PRINT; SFC (10); "FENATY DECIDER"
                                                                                               2030 PRINT'';SPC(6);"EUROPEAN CUP ROUND ";ROUND 2040 PRINT'';"Youre team of blue shirted" 2050 PRINT"Men are in the cup final."
    1470 VDU4
    1480 PROCCHECK
    1490 ENDPROC
    1500 DEF PROCCHECK
1510 IF P%<564 THEN GOT01630
                                                                                             2060 PRINT" After an action packed game which went int o extra time"
                                                                                               2070 PRINT"neither team managed to score."
2080 PRINT" So now its down to sudden death"
    1520
             VDU4
    1530 COLOUR5: COLOUR128
                                                                                               2090 PRINT"penaties the first team to score "
2100 PRINT"five goals wins."
2110 PRINT" You decide which way your player shoots o
    1540 IF F=2 OR F=-2 THEN PRINTTAB(1,1);" HA HA HA HA
   HA ": I=2:GOTO 1580
  1550 IF C=1 AND F=-1 OR C=2 AND F=1 OR C=0 AND F=0 THE N PRINTTAB(1,1); "SAVE ! SAVE! SAVE!": I=2:GOTO 1580 1560 PRINTTAB(1,1); "GOAL! GOAL! GOAL!"
                                                                                                dives by"
                                                                                               dives by"
2120 PRINT"using the following keys"
2130 PRINT'':" Left < Right >"
2140 PRINT';" Straight/Keeper stationary '?'"
2150 PRINT'':" PRESS ANY KEY TO PLAY"
    1570 I=1
    1580 IF I=2 AND L=1 G=4
1590 IF I=2 AND L=4 G=1
1600 IF I=1 AND L=4 G=4
                                                                                               2150
2160
                                                                                                        S=INKEY(Ø)
    1610 IF I=1 AND L=1 G=1
                                                                                               2170
                                                                                                        IF S=-1 THEN GOTO2160
    1620 IF P%=564 THEN PROCSCARFS
                                                                                               2180
    1630 ENDEROC
                                                                                               2190
                                                                                                        ENDPROC
    1640 DEF PROCSCARES
    1650 COLOURG: COLOUR135
    1660 FORT=0 T019 STEF3
1670 FORE=2 T0 10 STEP 2
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                                                                                                                                                                             19
```

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Basic





### DOOMSDAY CASTLE

is an arcade style game with the feel of a real adventure

Doomsday Castle consists of a labyrinth of 76 complexly inter-connected Halls and Passages where you will meet a whole host of adversaries serving the infinitely evil Scarthax, the Garthrogs, the Orphacs, the phenomenally nasty Googly Bird and the Urks which manifest themselves in over fifty unbelievably weird and wonderful guises.

Scarthax has scoured the Universe to bring together the six ancient stones of lifeforce. United in Doomsday Castle they are being used to wield an irresistable power over the cosmos, emanating

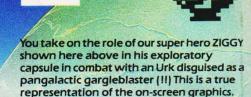
waves of corruption through every galaxy.

To save the Universe, you must battle your way through the Castle to find and collect the six



### **FANTASY SOFTWARE**

is available from W.H.SMITHS, JOHN MENZIES, LASKYS, GREENS, RUMBELOWS, SPECTRUM GROUP, COMPUTERS FOR ALL and all other good software retailers.



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FANTASY SOFTWARE, FALCONBERG LODGE, 27A ST GEORGES ROAD, CHELTENHAM, GLOS GL50 3DT despatched by return first class post together with free membership and current newsletter of the Fantasy Micro Club.

Trade Enquiries welcome – telephone 0242-583661.



Dear Games Computing

I had to write and say that I think your magazine is great, it is better than any other magazines that I buy.

I especially like the section on War games for computers, From Rome to Ram.

I also must say that your programs actually worked when I type them in. I own a VIC-20 and I think it's good to see that you had as many programs for the VIC as for the Spectrum. Keep it up.

Yours Barry Mayes

I'm glad to hear that you like Games Computing Barry and hope you continue to do so in the future. Our Wargames series is to continue indefinitely, so you have no worries about that coming to an end for the time-being.

Dear Editor

Congratulations for bringing out the best computer magazine in the shops today. I am thoroughly delighted with it and especially like the programs which you print for use on our own computers.

However, after reading the first two issues I was disappointed to see only one program for the CBM 64, seeing as this is one of the most popular computers, along with the Spectrum. So please, more programs for the CBM 64. Also in some of the programs some of the graphics do not come out as clearly as possible, while in others they come out superbly. Finally, I would like to know whether some of the programs suitable for the VIC would run on the CBM 64 without any conversions. If they are suitable would you please say so on page where the program is.

Once again well done (I can't wait for the next issue) Yours Sincerely

**David Buckmaster** 

sent in to us, so if there are any budding programmers for the CBM 64, or any other computer, who have written games for their computer why not send them in with some accompanying documentation like the programs in this magazine. We do pay for anything that is published.

Secondly, some listings are clearer than others because some printers are better than others.

Lastly, all VIC programs are compatible with CBM 64 programs as long as you adjust the POKE, PEEK, and PRINT statements accordingly as the VIC has a different size screen layout to the CBM 64 and the control registers for colour and sound are different. We do have a section marked Conversion Clues on each program, which should help you overcome these problems.

Dear Sir/Madam RE: School of Death.

Firstly is this program meant to be copied? If so, there are a great number of lines to lengthy to be put in the Oric 48K. To quote the manual you are not allowed to have lines that are longer than 78 characters. The manual does not explain how to get out of this situation.

As most of the lengthy lines come where the line numbers run consecutively it is a mammoth task to renumber and insert extra lines.

Your comments and advice would be gratefully appreciated by a fed up mum and a confused son.

Yours Sincerely Mrs J Darke

have lines longer than 78 columns. The answer is that you can only type in lines up to 78 characters long, so by replacing "? for "PRINT" you can save four characters. This shorthand entry of PRINT is the same with all microsoft BASICs. When the program is listed the "?"s will be reconverted into "PRINT"s and the line will look as if it's longer than 78 characters.

Dear Games Computing

Your second magazine is just as good as the first congratulations and keep up the good work.

Thank you for mentioning the Mattel Intellivision system, so few magazines do since the Colecovision came on the market.

I would like to know why Mattel don't make better use of their machine by using more cartridge power. Mattel cartridges can be up to 64K so games can be equal if not better than those by Colecovision. The most powerful game I have at the moment is a 12K Tron Maze-a-Tron.

I own a Lucky Keyboard that I got from the Silica Shop in Kent. It's language is BASIC, although I don't know of a BASIC that uses commands such as CALL SHOW, CALL GRAB for graphics, or CALL NOTE, and CALL TONE for sound. The booklet supplied is not too explicit and tells you to order a book called Step By Step Guide To BASIC. This book is not going to be released in England.

Yours Faithfully Steven Roberts

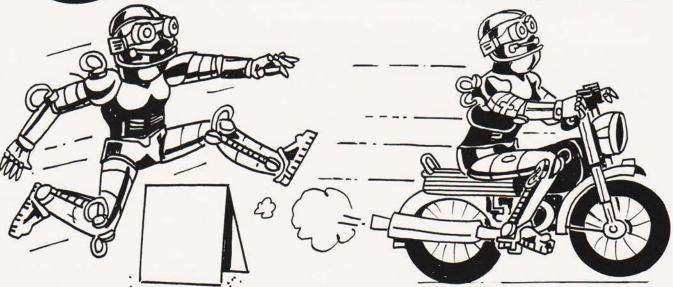
Have you got any opinions to air, has someone somewhere upset you and you want to grizzle and gripe? Or maybe you're full of the joys of spring and feel like telling a happy story

Whatever you want to say, be it good, bad or indifferent drop us a line here at Games Computing and get it off your shoulders. Send your letters to:

'Postman Pat', Games Computing, 1 Golden Square, London W1.



# CAMES COMPUTING



If you're the type of person who takes their computer and video games seriously you should be reading Games Computing every month.

You'll find a galaxy of games to zap you into the outer realms of space in each issue which you can play on your own computer. And regular program features include exciting adventure games, brain twisting strategy games and super sports games.

PLUS: Software Reviews, the latest news from games makers and players, our special wargames series and fascinating features.

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We all enjoy a good action game on our home computers, but after a while doesn't chasing the alien ss a screen wear a little thin? Th s the time to take on the super challenge of a Warmaster strategy game plenty of action, plenty to think about, and plenty titles to suit every taste.

Take on Warmaster and really put your home computer through its paces.





### CONFRONTATION

Build-on game that offers a basic format for any modern, non-nuclear conflict. Contains a modern European scenario with facility to create others of your choice using air and land forces.

Two-player game. Spectrum 48K BBC-B £7.95 £7.95





Offers the excitement of arcade action but requires the tactical thought of war games. Pit your biplane against one or two of the Kaiser's aces in this aerial combat game.

Spectrum 48K £5.95

### **DREADNOUGHTS**

Suspense-filled high seas drama as the pride of the German Grand Fleet is locked in battle with the Royal Navy. Two-player game.

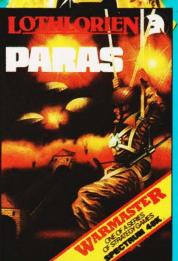
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### **JOHNNY REB**

There's still plenty of fight left in the Confederate South as each side select forces to manoeuvre on a full-graphics battlefield. Play against the computer of challenge a friend.

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### JUST AROUND THE CORNER, A NEW



BLACK CRYSTAL

The Classic, six program adventure game for the 48K Spectrum and 16K ZX-81 computers. No software collection is complete without it.

BLACK CRYSTAL is an excellent graphics adventure and a well thought out

package" (Sinclair User, April '83).

"BLACK CRYSTAL has impressed me by its sheer quantity and generally high quality of presentation. I am afraid I have become an addict" (Home Computing

SPECTRUM 48K 180K of program in six parts . . . only £7.50 ZX-81 16K over 100K of program in seven parts . . . only £7.50 Why pay more for less of an adventure?



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An exciting, fast moving, machine code, arcade game where you guide your intrepid St. Bernard through the perils of the icy wastelands to rescue his Mistress from the clutches of the abominable snowman, 48K Spectrum £5.95.

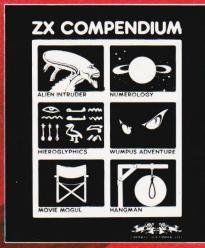


THE CRYPT written by Stephen Renton

Prepare yourself for the many challenges that shall confront you when you dare

You will battle with giant scorpions, Hell spawn, Craners, Pos-Negs and if you are unlucky enough — the Dark Cyclops in this arcade style adventure.

Available now for the 48K Spectrum @ £4.95



ZX-81 COMPENDIUM

Alien Intruder. Wumpus Adventure, Numerology, Hangman, Hieroglyphics, Movie Mogul.

The ideal software package for all 16K ZX-81 owners. Six major programmes on wo cassettes for only £6.50.

"Alien Intruder/Hieroglyphics — Both programs make good use of graphics and

words to make a very entertaining package." (Sinclair User, Aug '82)
"Alien/Hieroglyphics/Wumpus/Movie — A varied mix from Carnell, all featuring imaginative responses and graphics and all of them good games for all ages (Hieroglyphics is particularly good for children)." (Popular Computing Weekly,



Take on the robot guardians of the central computer in a superbly stylised three dimensional battle game, 48K Spectrum \$5,95.

(100% MACHINE CODE ARCADE ACTION)



THE DEVIL RIDES IN

I uttered the last incantations as the clock struck thirteen. All fell silent except for a faint rustling in the corner. From out of the shadows they came, all Hell's fury against me but I was not defenceless until the Angel Of Death, astride a winged horse, joined the battle. Avoiding his bolts of hell fire, I took careful aim. My chances were slim, but if my luck held . . . 48K Spectrum £5.95.

(Fast moving, machine code, all action, Arcade game)

### RANGE FROM CARNELL SOFTWARE



# The BBC Micro can now give your children a private education.

The BBC Microcomputer now accounts for 80% of the computers being ordered under the current D.O.I. Primary School Scheme.

It's also the computer which a rapidly increasing

number of people are choosing for their homes.

One of the reasons for its success is that it makes learning highly entertaining for everybody. From children who are getting to grips with the alphabet, to adults who want a gentle but intensive introduction to the complex world of computing.

Now, there's a substantial new catalogue of educational

programs specially for the BBC Microcomputer.

It has been developed by Acornsoft, the software division of Acorn Computers who manufacture the BBC Micro.

### $\frac{Making\ faces}{scolded.} \underline{without\ getting}$

With the new Facemaker program, your children can make

over a million faces. It's like an identi-kit, allowing them to depict anyone they want. They start by choosing the eyes. Then they can choose the mouth, the ears, the nose, the facial outline and the hairstyle.

And if they really fancy dressing up, they can add

earrings and hats.

In doing all this, they learn to read and spell, as well as developing their powers of description.

The money program, two games for the price of one.

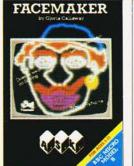
Mr. T. is an engaging little figment of the microchip who can teach your children all the complexities of our coinage system.

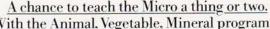
His Money Box program has two games, each of which

can be played at different levels.

In Money Match, the challenge is to collect a set of coins, matching them according to shape, size and value.

In Money Box, you can give your child and Mr. T. a helping hand to get all the coins on the screen into the box. (It's always different, because the coins on the screen are based on the small change you have to hand.)





With the Animal, Vegetable, Mineral program, the children can get the computer guessing.

They think of an object. The BBC Micro has to decide

what it is.

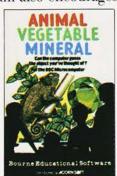
If it doesn't come up with the answer, the children can

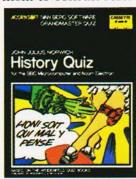
keep giving it hints.

In doing so, they are encouraged to question the difference between such things as crocodiles and alligators, or whether oil is vegetable or mineral.

The program also encourages them to consult refer-







ence books so that they can ask the computer increasingly tough questions.

### Questions on Julius Caesar from J. Julius Norwich.

John Julius Norwich's History Quiz is one of the new BBC Micro Grandmaster quiz series which also covers theatre, crime and detection, music, science fiction and royalty.

On the history front, there are 300 brain-testing questions, covering all aspects of British history from Julius

Caesar to Margaret Thatcher.

And to increase the educational value, Mr. Norwich has posed the questions from angles which will give a broader understanding of events.

### For the full catalogue, clip the coupon.

There are thirty more new BBC Micro programs in Acornsoft's new catalogue.

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If you're not yet a BBC Micro owner, you can get full details of the computer at the same time.

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ACORNSOFT

GC4

You have been on a mission taking cargo to Alpha Centuri when you run into an Asteroid Storm. Contained in the asteroid belt are fuel dumps, flags and dockers, left over from other ships. You must dodge your way through the Asteroid Belt collecting the fuel dumps, flags and dockers.

### To Play

Use the joystick, right for right, left for left; down for hyperspace.

You are the yellow ship at the top of the screen. You collect the fuel dumps, flags and dockers by ramming them.

### **Graphics**

Asteroid: a roundish filled-in thing. Fuel dump: a roundish shape with an "F"

A flag: it looks like a flag.

A docker: it looks like two lots of steps put back to back.

### **Points**

10

You get a point as the screen scrolls upwards and:

A fuel dump 5 points A flag 20 points A docker 50 points

### Rundown

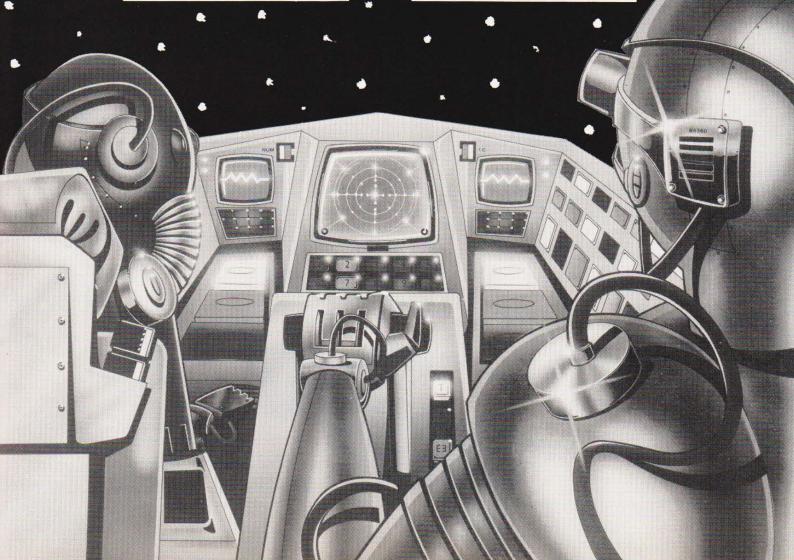
Sets Hi-Score to 1250 and sets Hi-Scorers' name to \* \* VIC-20 \* \* THEN GOSUBS to instructions and the user definable graphics routine.

Sets the volume and sets

the score to 0.

Sets position of ship into the middle of the top row. Sets lives to 3 and goes into Hires mode.

19 Clears screen and pokes border and screen black and turns off the noise.



Delay loop.

Pokes up your ship. Chooses a random position in the bottom half of the screen and defines it as C. Pokes ship to yellow. 21 If a random number (0-1) is more than 0.975, then it pokes C as a Flag; then goes to 26. 22 If it is more than 0.7 it pokes C as a fuel dump. 23 If it is less than 0.05 then it pokes C as a docker. 25 Pokes \* as a docker. 26-27 30 Sets joystick variables. Moves right. 35 Hyper space. 40 Moves left. 50 Checks if you have crashed; if so, it goes to 500. 51 Sees if you have rammed a docker; if so, it increases your score by 50. 52 Sees if you have rammed a fuel dump; if so, it increases your score by 5. 53 See if you have rammed a Flag; if so, it increases your score by 20. 55 Pokes a random note. Scrolls screen. Increases score by one then goes to 20 to start loop again. 90 Pokes a space in A. Gives a new location. Pokes your

space ship there and goes to

Takes away one of your

lives. Sees if you have none

left. If you have run out, then

screen black. Shows score

and how many lives you

Pokes a blowing up noise.

Returns to normal mode. Pokes the border green and

it goes to 1000.

20.

have left.

520 530 Returns to Hi-res mode and goes to 19 to continue game. Returns to normal mode 1000 Clears screen. Pokes red border and black screen and turns noise off. Prints "YOU'RE DEAD".
Prints your score. 1010 1020 1025 Delay loop. 1030 If your score is bigger than the Hi-Score, then your score becomes the Hi-Score and goes to 1050. Go to 2000 1040 1050 Prints "ENTER YOUR NAME", If you have entered more than eleven characters, including spaces, it asks again. 1060 Goes to 2000. 2000 Clears screen. Pokes top and bottom lines 2001-2002 different coloured blocks. 2010 The Hi-Scorer's name with his/her score Prints "PRESS FIRE". 2030 2040 Checks if you have pressed fire; if you have, it goes to 5 Goes to 2040. 2050 Clears screen and pokes 5000 border to red and screen to black. 5001-5002 Does the same as 2001-2002. 5010 Prints THE. 5020-5120 Prints "FINAL FRONTIER" in five block high letters. using the VIC's RVS on facilities. 5125 Goes through all screen and border locations, three times to give flashing effect. Goes to 10000. 5130 5150-5180 Sets up user definable graphics.

returns to start game. Clears screen and prints in 10000 RVS on INSTRUCTIONS. Sets up first part of 10010 instructions as A\$ Sets F to 36876 (a sound 10011 channel) and turns on volume. Prints out first part of 10012 instructions letter by letter, making machine gun sound. Sets second part of 10015 instructions as A\$. Does the same as 10012 10016 but with second part of instructions. Prints: BY DOING THIS it 10017 gets the cursor to the beginning of a line. final parts Sets 10020 instructions as A\$ Does same as 10012 but 10026 with final part. Delays loop. Goes to 5150. 10040

Goes into Hi-res mode and

### Variables

5190

Your ship. Random position in bottom half of screen for Asteroid, Fuel Dump, Flag or Docker. Your score. SC Lives left. 11 Hi-Score. HI Hi-Scorer's Name. HI\$ PA PB, RB, Joystick variables. M and N Used in instructions. A\$

Used in setting up Hi-res. Used in most for . . . Next loops.

### Hints on Play

Go for a docker, if you see one and use hyperspace as much as possible. The game uses up around 2400 bytes.

500

505

515

```
HI=1250 HI$="**VIC-20**" GOSUB5000
5 POKE36878,15 St=0
10 PRINT".⊒=" POKE36879 8 H=7691 LI=3 POKE36869,255
19 PRINT".⊒" POKE36879,8 POKE36877,0
20 POKEA,0:C=INT(RND(1)*254)+7933:POKEA+30720,7
21 IFRND(1)>.975THENPOKEC,4:60T026
22 IFRND(1)>.7THENPOKEC,3:60T026
23 IFRND(1)<.05THENPOKEC,5:GOTO26
25 POKEC, 2
26 PA=37151:POKEPA,0:PB=PA+1:RB=PB+2
27 M=PEEK(PA):POKERB,127:N=PEEK(PB):POKERB,255
30 IF(NAND128)=0THENA=A+1:POKEA-1,1
   IF(MAND8)=0THEN90
40 IF (MAND16)=0THENR=A-1 POKEA+1,1
50 IFPEEK(A+22)=2THEN500
   IFPEEK(A+22)=5THENSC=SC+50
52 IFPEEK(A+22)=3THENSC=SC+5
53 IFPEEK(A+22)-4THENSC=SC+20
55 PUKE36876. INT(RND(1)*128)+128
60 PRINT SC=SC+1 601020
90 POKEA,1:A=INT(RND(1)*22)+7680:POKEA,0:GOTO20
500 LI=LI-1 IFLI=01HEN1000
505 POKE36869,240
510 POKE36879,13 PRINT"INNUMNUMNUSCORE"SC"LIVES"LI
515 POKE36877, 220
520 FORT=1T01000 NEXT
530 POKE36869,255:G0T019
1000 POKE36869,240:PRINT" NOW:POKE36879,10:POKE36876,0
1010 PRINT"YOU'RE DEAD"
1020 PRINT"SCORE"SC
1025 FORT=1T02000:NEXT
1030 IFSC>HITHENHI=SC GUTO1050
1040 GOTO2000
1050 PRINT"NOMENTER YOUR NAME": INPUTHIS: IFLEN(HIS)>11THEN1050
1060 GOTO2000
2000 PRINT","
2001 FORQW=0TO21 POKE7680+QW,160:POKE8164+QW,160:POKE38400+QW,(QWAND7)
2002 POKE38884+WW, (WWHND7) NEXTOW
2010 PRINT" MUNUMPHI "HI#;HI
2030 PRINT"SidulaidiaidiaidiaidiainPress Fire"
2040 IFPEEK(37151)=94THEN5
2050 GOTO2040
5000 PRINT"∏≡":POKE36879,10
5001 FORQW=0TO21:POKE7680+QW.160:POKE8164+QW.160:POKE38400+QW.(QWAND7)
5002 POKE38884+QW/(QWAND7) NEXTQW
5010 PRINT"ardendender)He"
5020 Print"ar"
5030 PRINT" PROPRIA
                      LITE
5040 PRINT"PROPRIA PRI
                          1 11 1 "
5050 PRINT"
                      11
5060 PRINT" PODDEN DOLL
                          1 #1 1 "
5070 PRINT" PROPRINT PRI I MYS IN I
5080 PRINT" XXX"
5090 PRINT" a
5120 PRINT" WODDDOBY WALLI"
5125 FORT=1T03 FURS=0T0255 POKE36879,S:NEXTS,T:POKE36879,8
5130 GUTO10000
5150 FURT=0T0511 PUKE/168+1.PEEK(32768+T):NEXT
                                                                                             ac Fas
5160 FURI=7168TU7215 READH PUKEIJA:NEXT
5170 DHTH60,126,195,219,126,60,24,0,0,0,0,0,0,0,0,0,0
5180 DATA60,126,126,255,255,126,126,60,60,66,90,145,153,82,66,60
5185 DATA254,254,254,254,192,192,192,0,0,24,24,60,60,255,255
5190 POKE36869,255:RETURN
10000 PRINT" X TANH ++++ INSTRUCTIONS+++++"
10010 A$="ឡុស្សស្គ្រោYOID THE ROCKS AND NRAM THE FUEL DUMPS , NFLAGS AND DOCKERSN'
10011 F=36876 PUKE36878,15
10012 FORT=1TOLEN:A≉/ FORG=255TO128STEP-6:POKEF,G:NEXTG:POKEF,0:PRINTMID$(A$,T)
); NEXTT
10015 A$="
                FOR BONUS POINTS"
10016 FORT=1TOLEN(A$):FORG=255TO128STEP-6:POKEF,G:NEXTG:POKEF,0:PRINTMID$(A$,T,1
) : NEXTT
10017 PRINT
10020 AS="XXXX TO MOVE USE THE
                                     M JOYSTICK; DOWN FOR
                                                               M HYPERSPACE"
10026 FORT=1TOLEN(A$):FORG=255TO128STEP-6:POKEF,G:NEXTG:POKEF,0:PRINTMID$(A$,T,1
 PINEXTT
10040 FORT=1105000 NEXT GUT05150
KEHUY
```

GAMES COMPUTING APRIL 1984

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# COMPETITION

without any knowledge of machine code.

The program is menu driven and allows the user to devise his own game by answering simple questions about the nature of his game. The game can then be saved to tape and reloaded as an independent program using HURG for driver software.

There are three arcade programs included to demonstrate the use of HURG and to give the user insight into the techniques used. You do not simply redefine the graphics on well worn games as with other games designer programs but start from scratch using your own ideas.

HURG was developed by Melbourne House from the development system that they have used to program their best selling games for the Spectrum and other

HURG is not yet on the market so that the lucky winners of our competition will be among the first people to get this amazingly advanced games programming aid.

Melbourne House first started in 1977 as a book publishing company. In 1980, however, Alfred Milgram Managing director of Melbourne House saw the possibilities of computer books and consequently 30 Programs for your ZX80 was published. It became a best selling computer book and Melbourne House have never looked back, producing books on all subjects for a majority of micros on the market.

Early 1982 saw their debut into the software business. Since then Melbourne House have never been out of the software charts with a string of best selling games to their credit, like the Horace series, Terror Daktil, and many others including one of the most advanced adventure games ever written, The Hobbit, which is now available for the BBC Micro, Commodore 64, Oric 1, as well as the original Spectrum version.

Melbourne House will soon extend their range of games to cover the Dragon, VIC-20, and the Electron. The range of books caters for these machines already and covers every aspect of computing.

### How to Win Your **Designer Program**

Printed on this page is a wordsquare and a list of games by Melbourne House. All you have to do is to find the list of words in the square and ring them. The words can go from left, right, up, down, backwards, forwards or diagonaly. Where a program name has more than one word the words that make up the program name will be connected but not necessarily in sequence.

These will make up 10 words and some letters. Put these on the back of the envelope that your entry coupon is in. The words read from left to right and top to bottom. All the words should be ringed on the coupon.

M H E S P L B U O U D O U N R N R A C E O H G C H I E E U R R U E E B 1 B E A S R T C S E D T T OHRY O N F E L V S D RID RATO 1 0 R S AN AE SK 1 N G 1 I M E G A M A E S I G N E R T U A N O M S RLO T D G

Hobbit

**Terror Dactil** 

Penitrator

Classic Adventure

Cosmonaut

H.U.R.G

**Horace Goes Skiing** 

**Horace And The Spiders** 

Competition Rules

1. This competition is open to all UK readers of Games Computing, except employees of Argus Specialist Publications Ltd, their printers and distributors, employees of Melbourne House or anyone connected with them.

2. As long as the correct coupon is used for each entry there is no limit to the number of entries per person, photocopies will not be accepted

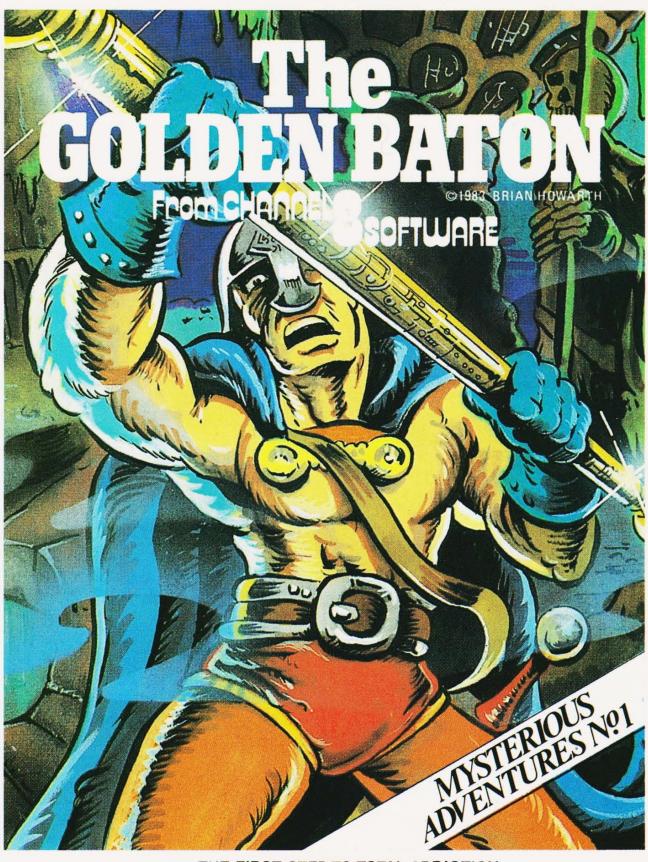
3. All entries must be postmarked before April 30, 1984.

4. The prizes will be awarded to the first 20 correct entries picked out of the bag.

5. No correspondence will be entered into with regard to the results and it is a condition of entry that the editor's decision is final.

6. The winners will be notified by post and the results will be published in a future issue of Games Computing.

Competition																													
Address to:	MEL	BOL	JRN	E	HC	US	SE	/G	A۱	ΛE	S	C	10	ИF	Ŋ.	TI	NC	3	C	۸C	1P	E	Γi	П	10	٧			
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# DISK GAMES

# **FOR THE**

If you've got a 1541, you don't want to spend ages waiting for cassette games to load. Freed from the restraints of loading times, Audiogenic Disk Games can give you typically around 30K of machine code! More code means better games, better graphics and sound, more variation, and those little extra touches that you will come to expect from a game. Here are our first great releases!

# FORBIDDEN FOREST

Forbidden Forest is more of a quest than just a game! The action takes place in a four dimensional scrolling forest landscape which many takes a landscape which was a landscape which was a landscape which was a landscape which was a landscape which wh have entered, but none has returned. Yes, I did say FOUR dimensional day fades into night as the action unfolds! The quest is to seek out and destroy the Demogorgon, mystic ruler of the Forbidden Forest. Before you can even set eyes on him you will have to contend with his army of you can even set eyes on him you will have to contend will his ultrily of fearsome creatures, including mutant spiders, showers of giant frogs, snakes, dragons, skeleton soldiers and more! You have only your trusty bow and arrows to depend on!







A challenge on an epic scale! Aztec Challenge takes you on a journey to Mexico and the ancient pyramid of Tenochtitlan. The ancient Aztec gods and their devotees have ensured that no ordinary human can learn the secrets of the temple and live to tell the tale. The pyramid is protected by all

manner of treacherous traps and hidden perils - an epic test of your courage and cunning. Aztec Challenge features no less than seven totally different screens - here are just three of them - each of which presents a brand new challenge. We hope your joystick can stand up to it!



Slinky, the spring, was having fun hopping about when suddenly he came upon a pile of coloured blocks, so he thought he'd play around on them for a while. Much to his amazement he found that they changed colour when he landed on them. Wow! But

unknown to him, the blocks belonged to the Wicked Wizard, who sent his friends unknown to him, the blocks belonged to the vylcked vylzula, who sent his metas along to tease our poor hero. Slinky is a real fun package with ninety-nine levels, amazing reward displays, and action replays. Where else could you meet such charming characters as Dusty the dust cloud, Marge the magnet, Ralph the random raindrop, and Lorenzo the chameleon hopper?





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### FROM

# Audiogenic



# RANTIC FREDDIE

Frantic Freddie is fun all the way! Played to an unbelievable soundtrack of brilliantly arranged tunes, Frantic Freddie contains all the ingredients that make a game into a classic! Freddie is a telephone line engineer who has to climb up and down the telegraph poles, picking up pots of gold and avoiding the dreaded Greeblies. The Greeblies take on a different form with

every new screeen, but one thing's for sure - they may look cute, but they show no mercy! Frantic Freddie also features wacky messages, funny interludes and silly bonuses. Frantic Freddie - a game with a sense of humour!



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FROM US. (MAJOR CREDIT CARDS ACCEPTED) PRICES INCLUDE V.A.T. AND POSTAGE AND PACKING

### **PEGASIS**

Pegasis takes us back to the mythical age when the battle between Good and Evil was fought by heroes on winged steeds. As the champion of the forces of Good, you must topple the evil Black Warriors from their jet black flying horses by swooping down on them from above, then land and finish them off before they can remount. In order to keep airborne, you must keep your wings flapping with the

tion with the stick. The brilliant programming of Pegasis gives you stunning graphics, bonus creatures, great wing flapping sound effects, an incredible simulation of flying horse aerodynamics, plus - two players can play at the same time!



THESE FUN-PACKED PROGRAMS ARE

ALSO AVAILABLE ON CASSETTE - £8.95

can't play just one

### Flying Feathers

In this highly original game you are the gamekeeper on the lake trying to stop greedy eagles taking all the fish. Two different methods with 4 skill levels each are available for your shot gun. Specially scored music with freeze frame ability, and for the technically minded 10 sprites (yes, that's right, there are only 8 on the 64).

High scores kept. All machine code.



**Bumping Buggies** 

Thrills and spills is what you'll get in this highly addictive motor racing game. You'll be driving over some pretty hazardous terrain having to cope with lakes, islands, rock formations and, not least, other cars which are intent on making you crash. Luckily you can vary your speed and line and you have one ace up your sleeve - when you maintain a sufficient speed you can jump over obstacles to help you out of trouble. The track gets progressively more difficult with 20 different patterns and you have to cope with driving conditions in the four seasons of the year. Like most bubble bus classics, Bumping Buggies has its own specially scored music and is in machine code.

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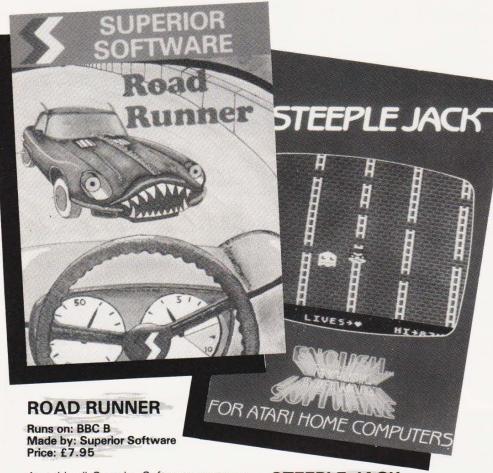
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# SOFTWARE



As with all Superior Software programs there is no explanation of the nature of the game. Knowing nothing about Road Runner I was a little apprehensive. I need not have worried as the game is brilliant.

You control a red racing car and must drive around a maze. Of course you have a task. You must drive over 10 checkpoint flags before you are given a renewed maze. There are two kinds of obstacle. Firstly three green racing cars which are hell bent on your destruction which they achieve by colliding - with you! Secondly boulders which fortunately remain stationary.

Your defence against the green cars is either out-manoeuvering or emitting smoke which sends them into an uncontrollable spin. The only defence against the boulders is one of non-contact!

The graphics are superb — they are both colourful and smooth, and the sound is fairly good. One feature that I liked was the short rag-time burst of music at the start of each game. The control keys are easily mastered and there is a joystick option. All in all, the game is of a very high standard and represents very good value for money.

### STEEPLE JACK

Runs on: Atari + Joystick Made by: English Software Price: £9.95

The first thing you notice is the front cover is a screen shot not a misleading artists im-

You are supposed to be a boy (name of Jack) having a dream about climbing a chimney, by using the joystick and fire button, to climb ladders on a never-ending chimney which has random gaps. These gaps must be avoided or you fall off.

Easy? Well yes, but there are other hazards, pac-man like ghosts and multicoloured falling elephants whose resemblance is more like that of a single

The general response of the joystick is good, once you get into the fact flow of the game. Skill levels are 0-4 inclusive. The superb sound effects that are available on the Atari, have not been used to full effect. The scrolling effect of the graphics on the chimney and ladders are smooth and consistant l'especially liked that animated face

of Jack, with flashing eyes and darting tounge (but why just a head).

My overall opinion is good, but not to the usual standards of English Software, it soon became boring and the poor sounds were annoying.

There was a bug on the first loading which no matter how many times I tried I could not repeat, it was that by holding the joystick fully left and pressing start, Jack jumped of the ladder but did not fall. There by avoiding all hazards.

This did give a chance to let the game run on and seemed to reach a maximum speed but the format never changed in the 3000 metres that I sat through.

Not a game I would recommend.

### HUNCHBACK

Runs on: BBC B

Made by: Superior Software Price: £7.95

Having heard a lot about the game I was eager to get started. When I first tried it I was amazed how difficult it was. The idea is that you, Hunchy, run along the battlements of a castle and attempt to rescue Esmerelda. The obstacles, - but of course, include cannon balls, arrows and anti-social guards.

The keys are simple to learn: left, right and jump, and there is a joystick option which would improve the game. The graphics are excellent, especially the way Hunchy jumps and the guards raise and lower their deadly spears. Sound is not very well used, but is adequate.

I think the game is very testing addition to the most complete collection and is well worth the money, once you have a few hours of practice under your belt.



# SOFTWARE

### **CRAZY PAINTER**

Runs on: BBC B

Made by: Superior Software

Price: £7.95

This is a game whose type has a proven pedigree involving the painting in of boxes on a grid whilst running the gauntlet. In this one the gauntlet can be anything from spear carrying natives to cannibalistic teddy bears.

Deviations in this version include making the assassins jump then running past them and role playing on the part of the painter from a normal paint roller to an abnormal gorilla. Points are awarded for consuming articles along the way and I assume for completing all four sides of a box on later screens. I have to assume because I could not stay alive long enough to discover what I was supposed to do on these later screens and the instructions gave little help.

With joystick or keyboard use, good quality graphics and with perseverance this game may well grow on you but on me I'm afraid it died.

I find difficulty in loading Superior Software — despite four different recorders the loading of this and others tend to make them adventure games before I begin.

### **FAIRGROUND**

Runs on: BBC B

Made by: Superior Software

Price: £7.95

I found this to be a well thought out game of its type. The scenario is a rifle range with a wide variety of objects passing in front of your gun and barely sufficient ammunition with which to hit them. Extra bullets can be earned by shooting the appropriately numbered boxes as they appear.

Bonus points are earned for shooting groups of letters in sequence within a time limit in addition to normal hits. Interest in the game is furthered by the inclusion of the infamous 'Smiley' who traverses the rear shelves only to periodically descend and steal bullets if not shot.

A second screen shows a man attempting to reach the side boundaries, when shot he runs the other way until shot again, continuing until his speed defeats and you return to the fair.

Strangely addictive with good sound effects and graphics and with easy key operation this game should keep a room in silence — providing the option of removing the background music is excercised with the first bullet. Incorporating a 'hold' facility and a hall of fame this game grows on you.

### SKRAMBLE

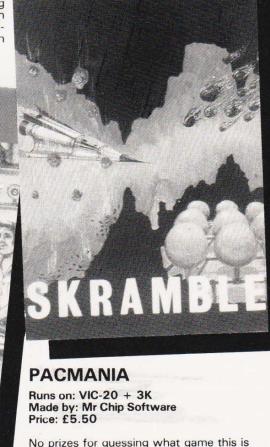
Runs on: VIC-20 + 16K Joystick

Made by: Anirog Price: £7.95

An expanded screen with double height characters making up a colourful title page showing all the aliens and fuel dumps. The game is very playable and makes good use of multicolour graphics, although this makes the display a little chunky. The game is the best replica of the arcade game that I have ever seen. There are six sectors through which you have to guide your rocket ship without the chance to turn around or back out of your mission.

The sectors include rocket attack, cavern, fire balls, city, maze, and finally the nerve centre of the defence that you have to destroy before you run out of fuel. Joystick only, on cassette, and needs 16K expansion.

ANIROG



No prizes for guessing what game this is like. Well, why buy this one when there are plenty of others on the market?

The answer is simple: it has twelve levels to suit everyone from the complete beginner to the experienced player. The fact that you cannot use a joystick is cancelled out by a nice little feature that allows you to choose your own key combination.





It has a difficulty level, speed variation and maze size all of three different ranges, visible or invisible maze walls and a choice of still or moving power pills.

The game itself is good with the ghosts becoming more intelligent the higher up the difficulty and speed levels you go. The maze is very good with dead ends and no warp tunnels. The walls themselves are very thin tubes which give a very clear display.

At the end of the games there is a ten place Hall of Fame which includes the choices of difficulty, speed etc which you made at the beginning.

I had no trouble with loading, so the only fault I can find is that when you are playing, the score is not particularly clear. The game is reasonably priced at £5.50 and all in all is probably the best "Pacman" style game for the VIC.



### BITMANIA

Runs on: Commodore 64 Made by: Virgin Games Price: £6.95

When the 64 was new and software was scarce this game might have been welcomed. Time has however moved on and we have come to expect programs that use the excellent sound and graphic facilities of the machine to the full. This offering fails to make the grade.

The scenario has you trapped inside the memory of the 64 where you must evade or destroy the constant stream of bits hurled at you by the CPU. The bits are simply a

variety of user defined characters with little original or exciting while sprite graphics are used only to provide a moving background. Little use is made either of the sound facilities and indeed perhaps the most impressive part of the program is the use of graphics and music on the title

Altogether we really have a right to expect better and with better available this program is unlikely to find a place in many collections.

### KWAZY KWAKS

Runs on: VIC-20 Made by: Mr Chip Software Price: £5.50

Kwazy Kwaks is a brilliant replica of the arcade game 'Carnival'. Another great game by S Southern of Mr Chip.

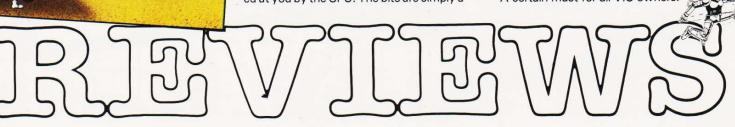
Shoot the ducks and rabbits to gain points, and numbers to gain bullets. But watch out for those low flying ducks who eat up your bullets, the faster you shoot the targets with fewer bullets the more points that you get.

The concise instructions make this game easy to follow. This game is easy to use on joystick as well as keyboard control, with left, right, and fire movements. The characters on screen are double height, the screen is expanded and hi-resolution. The graphics are easy to follow, so the screen is uncluttered and readable.

The carnival music can be turned off by pressing the shift-lock key which is useful if you get annoyed with it.

A certain must for all VIC owners.





# SOFTWARE

### NOC A BLOC

Runs on: BBC B Made by: Vigin Games Price: £7.95

Whilst not being totally alone in nature this game offers features which make its playing enjoyable if not compelling.

The program loads well and opens with sensibly laid out and uncomplicated instructions; these include the offer of joystick option which I preferred. Within the playing area are found blocks around which you, as a red bird, are pursued by aliens called 'spods'. The blocks when pushed by you either move or crumble, when moved any unfortunate spot in their way is crushed.

Spods can be temporarily immobilised following their contact with the outer boundaries after suitable energising by you, they can then be trampled on and eliminated. Bonuses are awarded throughout the mult-screen format of the game for time lapsed and for the lining up of suitably marked blocks in a manner prescribed.

Given the confines of my progression I did not find later screens relatively more difficult neither could I rate the graphics more than above average in quality.

Although only 'high score' was il-lustrated the aim of the game being to kill spods and accrue points still had me rein-

### CHESS

Runs on: BBC B

Made by: Computer Concepts

Price: £8.95

Computer Concept's latest version of their chess program would satisfy both novice and master alike.

The instruction booklet provided gives thorough but concise explanation to the superb flexibility and detail offered. Not only is it possible to select board and piece colour, level of play, and duration you can even consult the computer as to the wisest move you can make yet force it to think again over a move that it may wish to make. An action replay of the game can be summoned or you can retrogress move by move thereby enabling complete analysis of your situation; this is still furthered by the Save to tape or disc facility upon completion.

From the high resolution graphics through the total control of skill and level to the technicalities of en passant and castleing this programme is complete.

It is advertised as being 'quite simply the best chess game available' - I for one wouldn't doubt it.

### WIDOWS REVENGE

Runs on: Commodore 64 Made by: Bubble Bus Price: £6.99

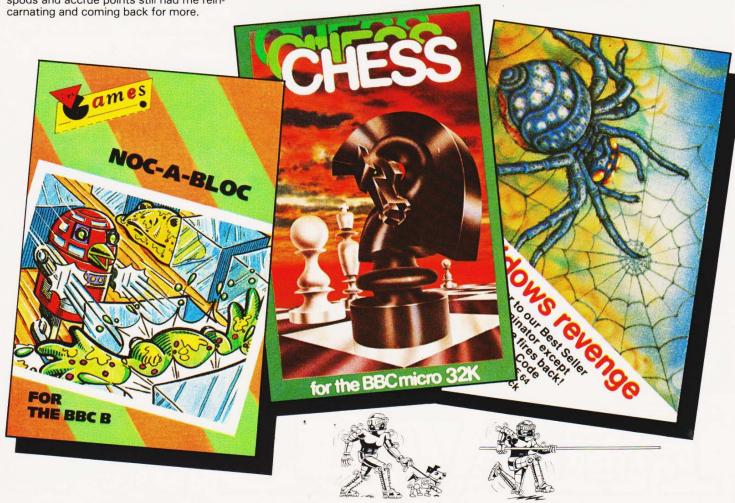
Billed as the sequel to Exterminator from the same company, this is a further variation of the Centipede theme.

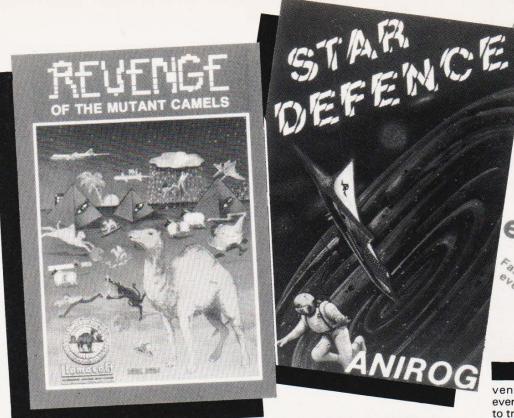
The main difference on this occasion is that the warrior ants, which appear to have ousted the centipedes, can actually shoot back. Pest control definitely becomes a more dangerous task.

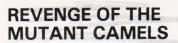
All the same this lacks some of the refinements of the original. The graphics are slightly cruder in design and the motion is less smooth. There is a two player option but there is no pause facility and no keyboard alternative to the joystick although as the joystick is used in part 1, the control, back arrow, 1, 2 and fire keys will operate albeit awkwardly.

Sound too is less impressive so that the option of turning it off would have been welcome but this too has disappeared in the changeover from Exterminator.

All in all this program suffers from the Rocky, Jaws and Superman syndrome sequels do not always stand comparison with the original. Still I suppose it's only fair that the insect life of the garden should have a chance to strike back!







Runs on: Commodore 64 Made by: Llamasoft Price: £7.50

Life for anyone writing commercial programs for the Commodore 64 used to be fairly easy. The vast majority of stuff being poorly put together sprite and sound programs or simple re-writes of VIC or PET stuff, with a few exceptional programs such as Virgin's Falcon Patrol standing out from the crowd or being exorbitantly expensive American software.

Now at last some British software is becoming available to show that the 64 is a wonderful machine. Perhaps the best program around is Revenge of the Mutant Camels by Jeff Minter. I was never a great fan of Attack of the Mutant Camels but this program is vastly superior. A friend described it as a cross between Manic Miner and Planetoids, however it has much more in common with the former than the latter.

You control a Star Wars AT-AT like camel capable of jumping great heights and telephone boxes, spitting laser bolts, and being protected by a neutronium shield. A thread of wry wit runs through the topics for the 42 sheets. From the obvious to the subtle, careful with that Eugene, no doubt a side swipe at Eugene Evans of Imagine, protrayed as he is in Manic Miner as well as being the name of the Pink Floyd track. Some of the sheets are very funny. Inkey, Blinkey, and Thud! has you battling against ghosts and pacmen.

Manic Minter has you avoiding dozens of camels being sheperded by Minter himself. Telecoms cumupance has you doing battle with telephones, telephone boxes, and 10 pence pieces, all of which are very nasty to touch.

NIROG

The program is something of a soapbox for Minter. It starts with extensive and very funny credits of everyone including his dog and plays a great tune. The game shows that camels and llamas are 'llovely', you should be especially careful of all British Telecom property, and that "no cruise is good news" a CND vein that runs through a lot of the screens.

Llamasoft claim that it should take about three months of practice to get through all 42 screens, after which it just gets harder.

The program is recorded on both sides of the tape, once in normal format and once in TURBO format. This allows the 40K program to load in 1½ minutes instead of the 18 it takes normally. I tried this with the old style C2N and a variety of adaptors which allow "normal" cassette recorders with the 64 and found the TURBO unreliable. However on the new style C2N it worked perfectly and the slow copy was usually all right with everything else. At £7.50 it is exceptionaly cheap and I cannot think of anything I would recommend more wholeheartedly to a 64 owner. Buy it and prepare to stand by your beast.

### STAR DEFENCE

Runs on: VIC-20 + 16K + Joystick Made by: Anirog

Price: £7.95

A colourful title page exposing aliens, such as mutants and space ships. A fairly good copy of the arcade game 'Defender' with a few extras thrown in. You have the con-

ventional 'smart' bomb to destroy everything on the screen, and hyperspace to transport you to another quadrant. The extras include a star gate to transport you to where a lander has just adbucted a humanoid. Inviso gives you five seconds of invisibility and immortality for each life.

If you have four rescued humanoids under your ship you can fly into the star gate and be transported over three attack waves. You can play with one to four players and there are two speed levels. The game can be paused and restarted at any time. Joystick only, needs 16K expansion, cassette.

### **EXTERMINATOR**

Runs on: Commodore 64 Made by: Bubble Bus Price: £6.99

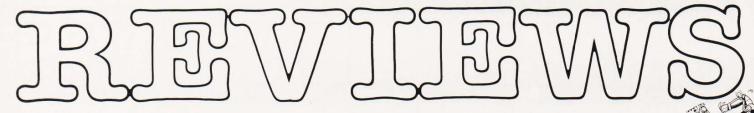
This is yet another variation on the Centipede theme but to be fair it is probably one of the better versions with some novel features.

Much of its interest lies in the good use of the graphics and sound. There is a well drawn eagle with a fascinating wing motion and a cry which sounds more like a seagull than a bird of prey. There's also a spider realistic enough to send a few shivers down sensitive spines.

Play can be controlled from the keyboard but a joystick is definitely preferable. Up to nine players can be selected using the numeric keys and other useful features are a pause key and the ability to turn the sound off if it should get a bit wearing.

Easy to start with, the level of difficulty soon builds up though further scoring possibilities are added by the appearance of a scorpion which scuttles menacingly across the screen.

Just enough then to lift it above the competition and make it a worthwhile buy.



**EXPLORING ADVENTURES ON THE** 

Made by: Duckworth Runs on: VIC 20 + 16K and 32K

Expansion Price: £6.95

VIC

Three Adventures on one tape are included in this exciting package from Duckworth. For the first two, 16K RAM is required, and for the final adventure, 32K.

Castlemaze Adventure has you exploring an old castle, with rooms, mazes, black knights, corridors, spiders, pirates, and sourcerers.

Tunnel Adventure places you deep underground in magical caves filled with poisonous snakes and fierce

animals.

Underground Adventure traps you inside a vast cavern searching for the key to release you. The format of these three games is standard, with first a description of your location being dis-played. This is followed by a list of items visible and a list of exits.

Move around these mind-mazes by typing in two-word commands. There is no guarantee that your intentions will be understood, but the computer has been programmed with a fairly wide vocabulary. You may pick up and carry various items that you find, to use later during the game.

All three adventures are well written and challenging, with, as is customary in Adventures, the Help routine being sufficiently cryptic not to make the game too easy (What DID Hansel and

Gretel do?)

Time unfortunately, has not yet permitted me to solve the Adventures, so if you find difficulty in completing them, a book by Peter Gerrard (the author of the programs) is available from Duckworth at £6.95 listing the three programs, together with tips on how to write your own Adventures.

### BYTE

Made by: Cases Computer **Simulations** 

Runs on: 48K Spectrum Price: £5.00

Much of the commercial software available loads a screen file before the main file to give the user something

Spectrum 48K Peter Gerrard Contents: ASTLEMAZE ADVENTURE TUNNEL ADVENTURE ERGROUND ADVENTURE ADVENTURE GAMES £7.95 FROGLET -BATTLESHIPS

pretty to look at while cursing himself for choosing such a slow cassette based system and wondering if he can afford the micro-drive next month. So, why does Byte load the picture as the very last file after waiting five minutes

faced with a blank screen?

After you select one of the seven skill levels you are offered the opportunity to purchase a computer system. Being faithful Spectrum user I chose the Sinclair machine and proceeded to spend the rest of my alloted cash on various peripherals. The section of the game is very tedious and poorly error trapped. The computer goes on to draw a picture of a grave stone with the caption 'just kidding'. All very nice, but when you have to wait a minute it is a bit pointless.

The game entails exploring the system (memories of TRON?) and buying various bits and pieces. These include teletext modules and estimating circuits. Each keystroke is followed by about seven seconds of noise (the

about seven seconds of noise (the inlay says music), making entry extremely tedious. You are also treated to such insults as 'you moron'.

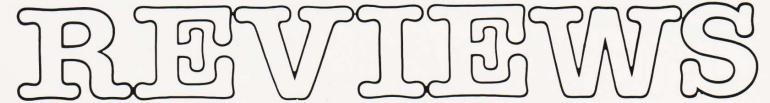
The whole game involves moving up, down, left, right, forward, and backward — does this really justify the 'true 3D adventure' boast? There are monsters to do battle with and other tasks. sters to do battle with and other tasks. The game is written in BASIC and is consequently very slow and it jumped my system more than once.

Made by: Timeless Software Runs on: TI 99/4A with Extended Basic Price: £4.95

This tape contains two programs — Froglet, a version of Frogger, and that well known favourite, Battleships.

In Froglet, using either keyboard or joystick, you must race against time to safely cross road and river to each of your four frog homes and so obtain a high score. You have traffic to avoid, of course, and the river must be jumped across using the floating logs, lily pads and turtles. When near to a home an unfriendly occupant may appar, in which case a safer place to land must be found. You have three lives in every game, but as each screen is completed the next becomes more difficult.

In Battleships one player competes against the computer, the winner being the first to locate and destroy the other's fleet. There is a choice of three skill levels, each of which controls how intelligently the computer's guesses are made. The screen displays two 10 × 10 grids — one to record your guesses, the other to show the deploy-ment of your fleet and each guess made by the computer. The only instructions provided are those on screen. Unfortunately, they appear so fleetingly that about three RUNs are necessary to read them all properly.



# PROGRAM

# STIBIMISSIONS



### Do You Want Fame and Fortune?

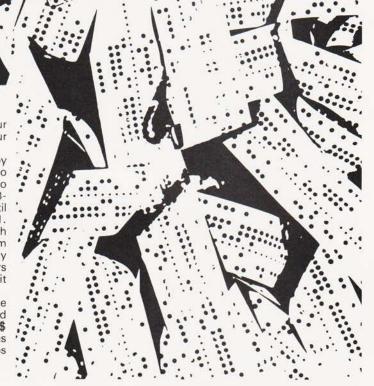
Does brilliance reside in your RAM? Do your friends gasp at your own programs with envy in their eyes? Would you like to see your name in *Games Computing!* 

If you have written a program to take the software world by storm and want to show your fellow readers just what you can do on a keyboard, cut out or photocopy the form below and send it to the Editor, Games Computing, (clearly marked PROGRAM SUBMISSIONS) at 145 Charing Cross Road, London WC2H 0EE (until 16 December 1983) and after that to 1 Golden Square, London W1.

Please send with your tape recording of the program a thorough explanation of the game, a line by line listing of how the program works along with a list of relevant variables etc. Also include any clues which you can think of to help owners of other computers other than the one which the program was written for, convert it for use on their computer.

We will look at games programs on tape for all the popular home micros and disc versions for the Commodore machines, Atari and BBC (40 track and Hitachi format). Whenever possible use CHR\$ rather than command codes and please avoid making programs autorun. If you can let us have a printout of the program it helps and the same goes for screen dumps.

P.S. They'll be paid for too!



Your Name	Age		
Program Name			
Computer/memory size it runs on			
Amount of memory program occupies			
Other computers/memory size which your program runs on			
Does your game need joysticks?	Yes	No	
Any known bugs? If so, what are they?			
Have you sent your game to another magazine	Yes	No	
Is it original/or a variation on a theme?			
Your Address			
Telephone Number			
Times to contact you			



One of the hottest games systems now on the market is being given away by its maker CBS in a quick and easy competition

requiring just a little games know-how.

The **Colecovision** system is a relative newcomer to the video games scene but since it was launched last year both the system and its games catridges have gained a very strong and dedicated following.

What seems to be the system's strengths are its great graphics which closely rival those achieved by Atari, the market leader in this field, and CBS's policy of only producing games for the system which are bone fide versions of arcade games under licence. To do this they always buy the rights of the original arcade that they want to reproduce. Of course, this is the correct way to go about software reproduction and means that games players will ultimately have much better games to play.

### Loads of Software

So far CBS produce Atari compatible cartridges (only released at the end of 1983) or great games like Carnival, Donkey Kong, Gorf, Mouse Trap, Venture, and Smurf with the very popular Zaxxon game soon to be available for the machine too. These are just some of the 26 games currently available for the Colecovision itself.

Versions are also on sale to run on the Mattel Intellivision system including Donkey Kong (and Donkey Kong Junior), Carnival, Mouse Trap, and Adventure.

The very latest release for the Colecovision is a version of Time Pilot which all at CBS are 'very excited' about. With a bit of luck this brand new game should hit shop shelves during January.

### **Plenty Of Prizes**

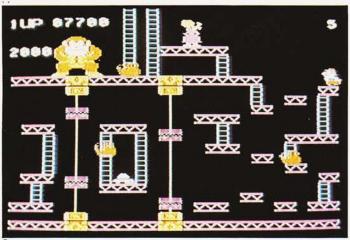
Not only has CBS Colecovision kindly agreed to give away a Colecovision, also up for grabs is the newly launched Atari adaptor. This great little device will enable you to use Atari compatible cartridges with your Colecovision console. Just imagine

### Colecovision

You'll see printed on this page pictures of frames from best selling Colecovision games. All you have to do is put on your thinking cap and name the game frames. Study the picture carefully and see if you can recognise the characters in the screen shot. It's not too difficult because the pictures are in colour so everything should be easy to distinguish.

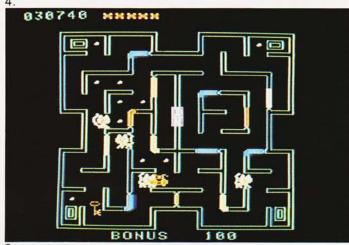
Don't be alarmed if you think you can only name the game if you already have a Colecovision system. You can't. All you must do is use your imagination and find out about the games from catalogues, advertisements or look in your local video games store and see if they have got any Colecovision games in stock. But make sure you don't keep pestering them with constant requests to see what Colecovision stuff they have in stock. We wouldn't want to upset them after all.

So, now you know what to do it's all down to you. Remember to read the competition rules very carefully too before sending in your entry. If it is not properly addressed it may not reach us and you wouldn't want to jeopardise your chance of winning this competition, would you?













### Competition Rules

1. This competition is open to all UK readers of Games Computing, except

employees of Argus Specialist Publications Ltd, their printers and distributors, employees of CBS Colevision or anyone connected with them.

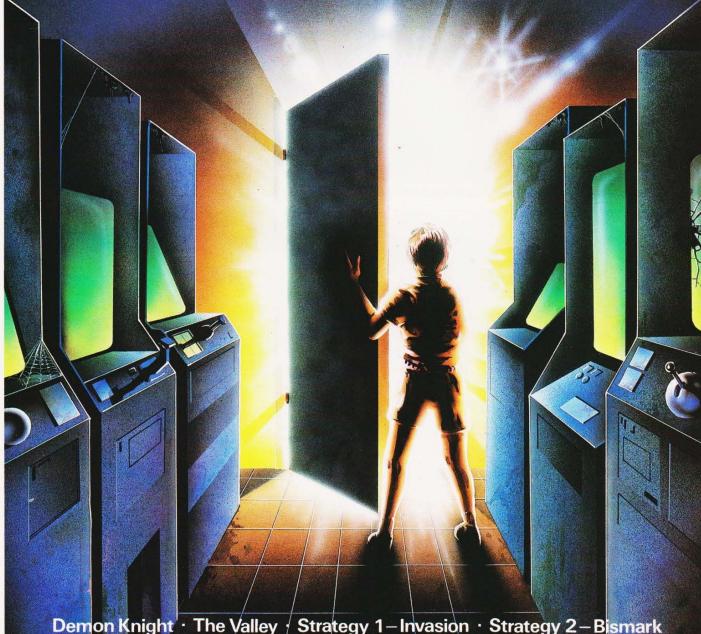
- As long as the correct coupon is used for each entry there is no limit to the number of entries per person, photocopies will not be accepted.
- 3. All entries must be postmarked before April 30, 1984.
- 4. The prizes will be awarded to the first correct entry picked out of the bag.
- 5. No correspondence will be entered into with regard to the competition results and it is a condition of entry that the editor's decision is final.
- 6. The winner's name will be published in a future issue of *Games Computing* and he/she will be notified by post.

Send your entries to **Games Computing/Colecovision Competition** with this coupon. Please write in block capitals.

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### SOFTWARE FOR SPECTRUM AND ZX81

### **OUR POLICY**

We aim to create programs which you will keep on using until your computer wears out. You won't find our programs in the top ten and you will look in vain for colour adverts and fancy packaging. Nevertheless we have built up a solid following of discerning users in all parts of the world. Read the reviews of our programs if you can find them. We have been consistently praised for quality, originality and value for money

### WHAT DO YOU GET?

The bulk of our cassettes are now made by the factory which produced the Horizons tape. Programs are recorded twice and carry on the reverse side an audio narrative to supplement the operating instructions. Where appropriate, cassettes are accompanied by a comprehensive and clearly written instruction manual.

### **48K SPECTRUM**

"Day of the Match"

25.00

Fascinating and realistic simulation of an entire football season. Name your own teams if you wish (English league provided on cassette). Rate each team from one to nine in various success categories such as attack, defence, manager, etc. Watch the season unfold. Includes knock-out cup option.

Simulates a test match series or one day international series. Set up your own teams and pool of players (England v Australia provided). Rate each player's capabilities as batsman and bowler on a one to nine scale for qualities such as talent, effort, etc. Pick your teams and play the match. Electronic scoreboard shows progress of a match. Full supporting score card and series averages

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Spreadsheet type program with variable column width and variable number of columns. Lets you sacrifice columns you don't need to get more lines

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### 16K SPECTRUM

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Create full colour high-res pictures and store them on cassette for use as titles or background screens in other programs. Or just have fun doodling and build up a cassette library of your creations. Slide show option allows you to review pictures stored on cassette

### 16K ZX81

Here is a selection of titles still available for ZX81. Send s.a.e. for illustrated catalogue. These are the ZX81 equivalents of the Spectrum programs described above. Although similar in concept the appearance fell short of the descriptions given for the the specifications fall short of the descriptions given for the

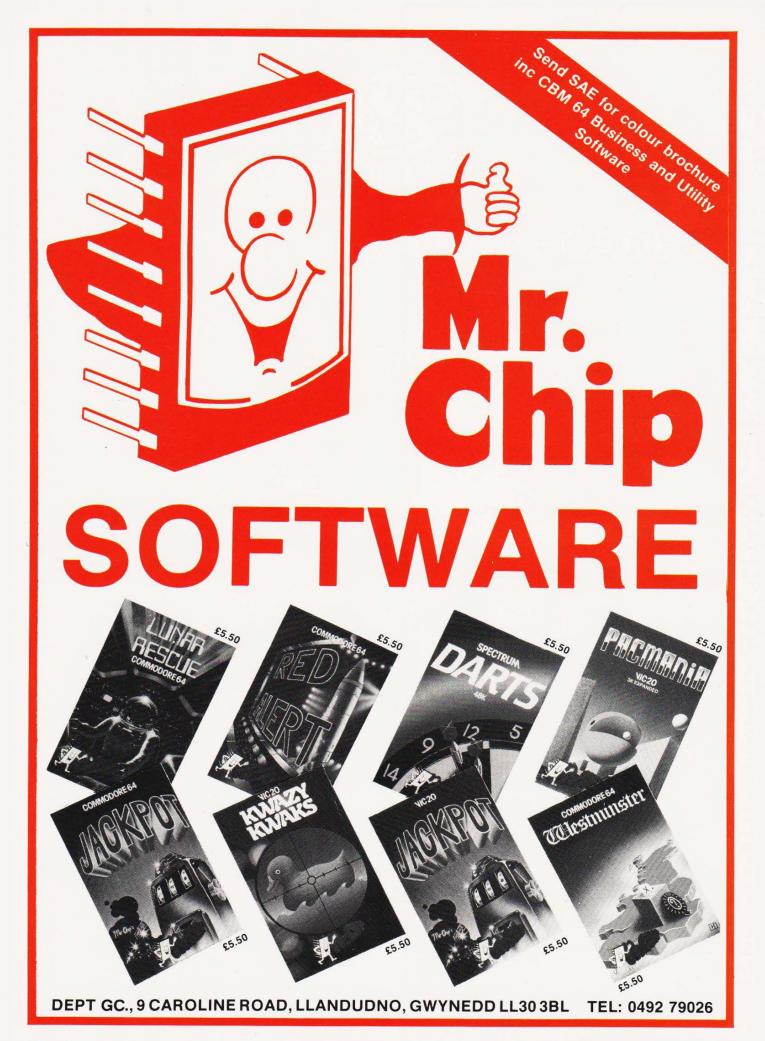
"FOOTBALL-LEAGUE" Forerunner of "Day of the Match" £4.00 Forerunner of "Ball by Ball" Forerunner of "Superplan" "TEST-MATCH" "VIDEO-PLAN"

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Many independent computer shops now stock our products but we continue to supply by mail order on an off-the-shelf, immediate delivery basis. Prices include VAT, post and packing in U.K. Add a bit for postage if you live in Outer Mongolia. (Note: "Day of the Match" not available until late October 1983).

### VIDEO SOFTWARE LTD.,

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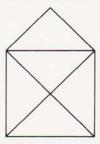




For no reason that is very convincing, this month's puzzles have squares as a common theme. This is reflected in the shape of the puzzles or their titles, where shapeless.

### 1 SQUARE DANCE

An easy one to start with — can you draw this without lifting pen from paper or travelling the same line twice?



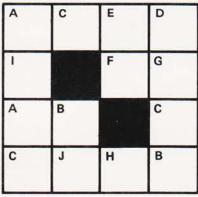
### 2 BOX NUMBERS

Apologies if this is a little too much like homework, but given that each letter of the alphabet represents a different number between 0-9

and that 
$$\frac{ACED}{BD} = \frac{AIAC}{DC}$$

$$AB^3 = DGCB$$

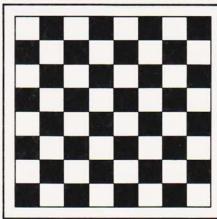
in the following grid



then what is  $BJ \times FG$ ?

### **3 ALL SQUARE**

This game gives every appearance of being simple too — all you have to do is place eight pieces on the chessboard so that no two pieces are in a straight line — horizontally, vertically or diagonally.



ANSWERS ON p96

### SPECIAL SQUARE COMPETITION

### **4 MAGIC SQUARE**

Since squares are this month's theme, we must include a magic square — simply a square filled with rows of numbers that add up the same — across, down or diagonally. A true magic square will use all different numbers — hence

2 7 6 9 5 1 4 3 8

Can you devise a magic square for a four sided square using 1-16?

Now that is easy enough — you either spend ten minutes working it out — or look it up in a book. What we would really like to see is *your* computer program, devised to solve the above problem. We will publish the most elegant or simplest program in a future issue, and use this (hopefully) as the basis for more magic square problems in the future. So get to work — and send them in!

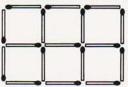
### **5 SQUARE PEGS**

Talking of squares, here's an old chestnut you might have forgotten. Join the nine points with four straight lines that pass through each point just once, each starting where the other left off.



### **6 SQUARE RIGGED**

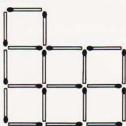
Some matchstick teasers: Take away five matches to leave three squares and no odd matches



Add five matches to make ten



Take away three matches and replace them to make five equal squares.



By the way, breaking or burning matches is cheating!



### **7 SQUARE MEALS**

Lord Gilberdyke once committed a heinous crime at the Court of Falkovia — sleeping through all fifteen verses of the Falkovian National Anthem. His punishment was severe — banishment to the nearby island of Donrovia with all his household for five months.

Arriving there they found the punishment even more harsh — for the island was inhabited by cannibals, and it was their custom to devour *two* people every full moon.

As the exiled party numbered Lord Gilberdyke, his wife and eight retainers, and the moon was waning, it was clear that only two would survive the exile.

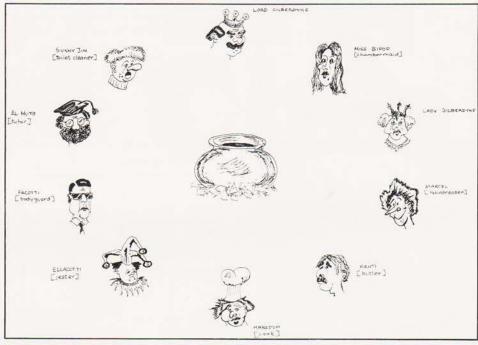
The wily Lord Gilberdyke thought quickly and then summoned his household together. "I intend to be entirely democratic in this matter," he lied; "we shall all stand an equal chance of appearing on the menu."

"Each month we shall form a circle, standing in the same positions each time. I shall pick a man at random and start counting clockwise to 13. The unlucky number 13 will take his place in the pot, and I shall start again from the one next to him, again counting to 13. The following months I shall always start from the one after the thirteenth man — or woman."

Now it was his plan to solve all his family problems this way — to be rid of a meddlesome wife and expensive retinue — all except for Miss Bipop, the chambermaid, who happened to be young and reasonably

attractive.

At full moon the next month the circle formed according to Lord G's instructions. But in the ensuing time he had forgotten exactly where to start counting, and found himself being dressed for dinner — as the first course. He had made a slight error. Where did he start counting — and where should he have? This is how he set out the circle . . .



### Answers for March

pi

### 1. HEADS YOU WIN

A fifty pence piece and a five pence piece. (One was not a five pence piece — but the other was!)

### 2. MICROPROCESSOR

corpse	coops	mope
corpses	crime	more
corps	crimes	mores
cess	criers	mice
corm	crisp	miss
corms	crisps	mess
come	em	miser
comes	emir	mop
crop	ems	mops
crops	empire	moper
core	empires	moor
cores	err	moors
corer	errs	mire
covers	error	moo
cos	errors	moose
сор	ire	morse
copes =	ice	or
cries	ices	ore
crier	imp	orris
cress	imps	orc?
coop	me	ores

pries rip sperm prime roc sperms primes rope scrip poor rise scrips pore rises so primer roses sore promise rose sores promisers remiss sire promiser rime sires poem room spire poems rooms spires roomie process spies press rice score prism rim scores prisms simpers scrim price sip scrimp prices sips scrimps prise sop some prises sops spore processor scoop spores press scoops scope simper prim scorer

continued on p 90

scorers

SAMES COMPUTING APRIL 1984

### THE MUTANT CAMELS

At last the long awaited sequel to Attack of the Mutant Camels is available. You are controlling a ninety foot high, neutronium shielded, lazer spitting death camel; leading a rebellion against your evil Zzyaxian overlords. The game features beautiful smooth scrolling graphics and no less than 42 different attack waves, more than any game in video history. The challenge of play will last for months as you battle to see what's on the next wave.

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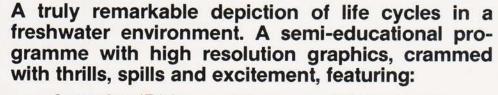


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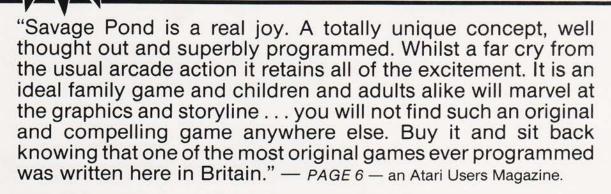


(Rana Temporaria)

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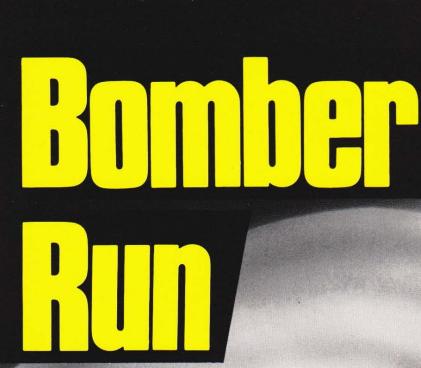
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When the program is typed in and RUN you will see your ship in the top left hand corner. It then starts to move across the screen from left to right. You have four bombs at your disposal to clear a space for your ship to land, the bombs are released by pressing the fire button. When all four bombs have been used you are given a chance to land. Pressing the fire button will start your descent and the right joystick will control the ship.

If you manage to land a tune is played, the time it took you to land is displayed and the game restarts. If you crash, however, there is a random chance of escaping alive and restarting the game.

As a bonus there is an overshoot facility, pressing the fire button while descending will cause your ship to rise.

### RUNdown

Action
Credits and instructions.
Set up arrays, initialize variables and branch to set
up screen routine.
Main program.
Bomb routine, check if bombs are used up, move bomb and start explosion.
Landing routine, read joystick, check for safe or crash landing and check for overshoot.

330-380 Safe landing routine, print messages, play tune.

390-410 Crash routine, play tune, decide whether or not to start game again.

420-540 Set up screen, draw ship and bomb and store them into arrays SH and BM, draw random landscape, plots stars at random and draw planet in the distance.

### Main Variables Used

X	X coordinate of ship/bomb.
Y	Y coordinate of ship/bomb.
U	Number of bombs used.
S	Time gone by in seconds.
BT	Rest time

### **Conversion Clues**

This program should not be hard to convert as Dragon BASIC is fairly standard. Read through the notes on hot it works to get an idea of what is going on and insert the appropriate graphics commands where needed as these are the only major difference from standard Microsoft BASIC. Here are a few points.

PUNS ON A

**GET** Copies an area of the screen and stores it into a previously dimensioned array for later use.

**PÚT** Is the command which puts the arrays contents back onto the screen at the coordinates given.

**PSET** Is the Dragon equivalent of **PLOT**. **CIRCLE** Draws a circle with centre X,Y a diameter of D, and in colour C. The syntax is CIRCLE(X,Y),D,C. This statement can be left out.

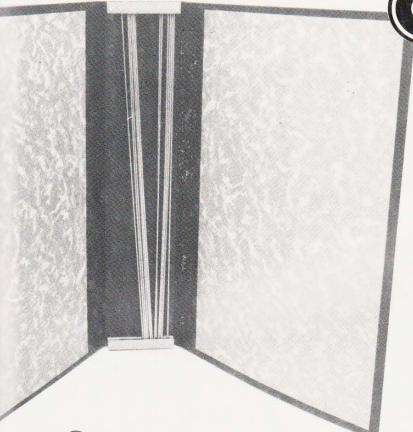
All **DRAW** statements that have been used are for drawing the game shapes, namely the ship and the bomb.

# Bomber Run



BOMBER RUN 10 REM 20 REM BY HARDIP MOTHADA 30 REM AGED 14 40 REM 7/7/83 50 BT=30 60 CLS:PRINTTAB(10); "LUNAR BOMBER" 70 PRINT: PRINT"YOU ARE IN THE CAPSULE OF AN ATOMIC F REIGHTER THAT IS BADLY DAMAGED AND NEEDS REPAIRS. YOUR ONLY HOPE IS TO DROP CANISTERS OF RADIO-ACTIVE WASTE ONTO THE SURFACE OF A DESOLATE PLANET IN THE MIDDLE OF NOWHERE. IF YOU CAN LAND YOU "; 80 PRINT"CAN MAKE THE REPAIRS AND RETURN HOME" 90 PRINT@448," PRESS 'D' KEY TO START DESCENT": SCREENO, 1 100 IF INKEY\$ > "D"THEN 100 110 DIM SH(24), BO(8) 120 PMODE3,1:SCREEN1,0:PCLS3:COLOR3,1 130 U=0:S=0 140 GOSUB 420 150 TIMER=0 160 Y=0:FOR X=0 TO 200 STEP 2 170 PUT(X,Y)-(X+14,14),SH,PSET 180 PLAY"02L255CFC": IF PEEK(65280)=126 OR PEEK(65280)=2 54 THEN GOSUB 210 190 NEXT 200 DRAW"C3":LINE(0,0)-(230,30),PSET,BF:GOTO 160 210 U=U+1: IF U>4 THEN DRAW"C3":LINE(0,0)-(230,30), PSET, BF: Y=10:GOTO 260 220 FOR Y=30 TO 235 230 PUT(X+15,Y)-(X+25,Y+10),BOMB,FSET 240 NEXT 250 DRAW"C3":FOR I=1 TO 4:FLAY"O4L255T255ABCDEFG":NEXT: LINE(0,0)-(230,30), PSET, BF: GOTO 160 260 X=X+2\*((JOYSTK(0)<30)-2\*(JOYSTK(0)>30)) 270 IF X<1 THEN X=1: IF Y<10 THEN Y=10 280 Y=Y+3:PUT(X,Y)-(X+14,Y+14),SH,PSET 290 IF PPOINT(X,Y+15)=2 OR PPOINT(X+20,Y+15)=2 THEN 390 300 IF Y>51 AND( PEEK(65280)=126 OR PEEK(65280)=254) TH EN LINE(X,Y)-(X+30,Y+30),PSET,BF:Y=Y-10 310 IF Y>176 AND PPOINT(X,Y+15)<>2 THEN 330 320 GOTO260 330 CLS:PRINTTAB(10); "LUNAR BOMBER" 340 S=INT(TIMER/50): IF SKBT THEN BT=S 350 PRINT"WELL DONE YOU HAVE LANDED SAFELY" 360 PRINT:PRINT:PRINT"YOU LANDED WITHIN "S"SECONDS" 370 PRINT: PRINT: PRINT" THE BEST TIME IS "BT" SECONDS" 380 SCREENO,1:FOR I=1 TO 2000:NEXTI:PLAY"T303L4CEFGECED CFCGFAGF": GOTO 120 390 CLS:PRINT@224," CRASH LANDING": SCREENØ, 1: FOR P=1 TO 2000: NEXT P 400 IF RND(4)<>1 THEN PRINT@448,"NO SURVIVORS...NO SURV IVORS...": SCREENØ,1: GOTO 410 ELSE PRINT@448," YOU SU RVIVED, LUCKILY": SCREENØ, 1: FORI=1 TO 2000: NEXT: RUN 410 PLAY"01T2L4DFABB-":FOR I=1 TO 2000:NEXT I:CLS:END 420 DRAW"BM4,0;C2;S4BR4BD4D3L2R4ND6L4D6R4L6D4R2U4R4D4R2 U4L2" 430 GET (0,0)-(14,14),SH,G 440 PCLS3: DRAW"BM0,0;C5; BR4BD4; D5R1U5" 450 GET (0,0) - (10,10) , BOMB, G 460 X=0:Y=185:LINE(0,165)-(X,Y),PSET 470 DRAW "C2" 480 X=X+RND(15):IF X>255 THEN X=255 490 Y=Y-RND(30)+13:IF Y>191 THEN Y=191:IF Y<0 THEN Y=0 500 LINE-(X,Y), PSET 510 IF X=255 THEN PAINT(1,191):PAINT(255,191):PAINT(128 ,191) ELSE 470 520 FOR I=1 TO 25:PSET(RND(255),RND(120),5):NEXT 530 CIRCLE (245, 10), 9, 4: PAINT (245, 10), 2, 4 540 RETURN

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Zap the alien to bits with this arcade game for the unexpanded VIC-20.

In this version of a well known arcade game there is one alien and a 'spook' bomb game there is one alien and a 'spook' bomb that are out to get you. You control a space ship at the bottom of the screen that has a single missile launcher and can fire a missile that is guided by the motion of the

The game uses high resolution graphics, full colour, and sound and yet can still fit into a totally unmodified and unexpanded VIC-20.

Controls are 'Z' left, 'M' right, and

'space' to fire.

### **RUNdown**

Line	Action
1-2	Instructions option
3-9	Set up hi-resolution graphics
10-12	Set up variables
12-14	Set up screen
13-32	Main control loop
33-36	Destroy ship
37-41	Destroy alien or bomb
42-44	End game and tidy up system
45-71	Instructions

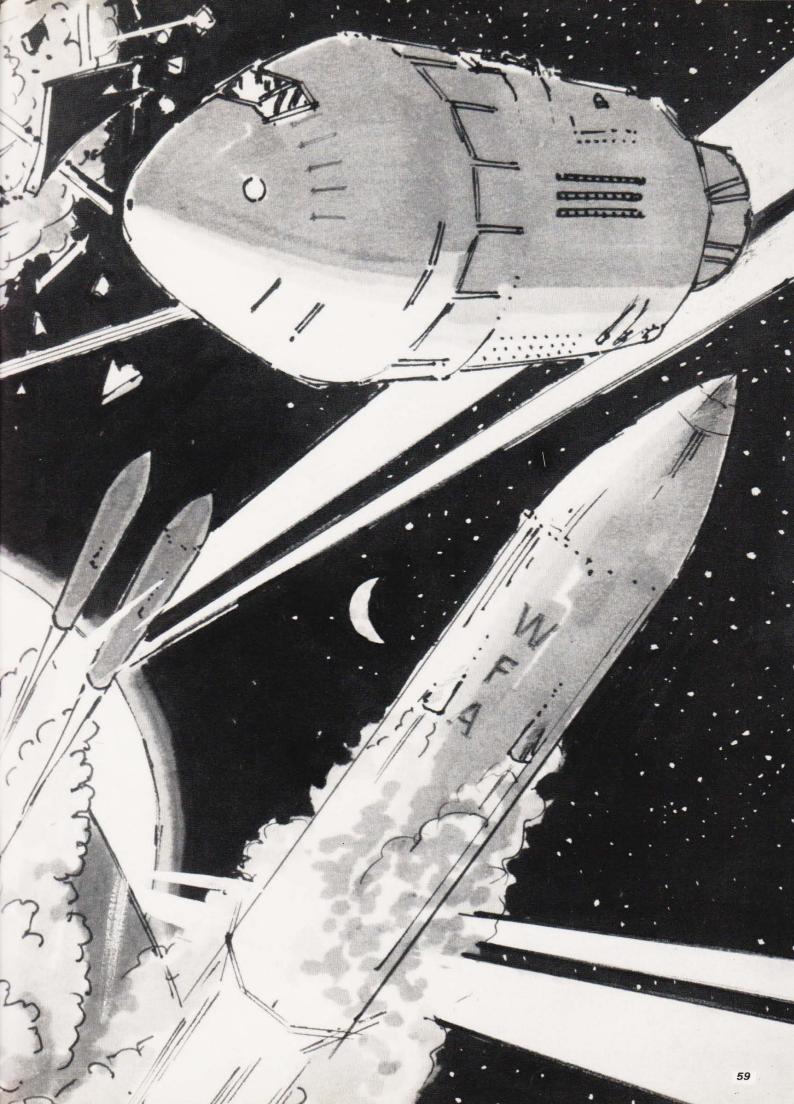
### Main Variables Used

SH	Screen location of ship
MI	Screen location of missile
AL	Screen location of alien

во	Screen location of bomb
UC	User defined character
	pointer
S1,S2,S3	Sound registers
V	Volume level
SC	Score
TI\$	Time variable
C\$	Option input

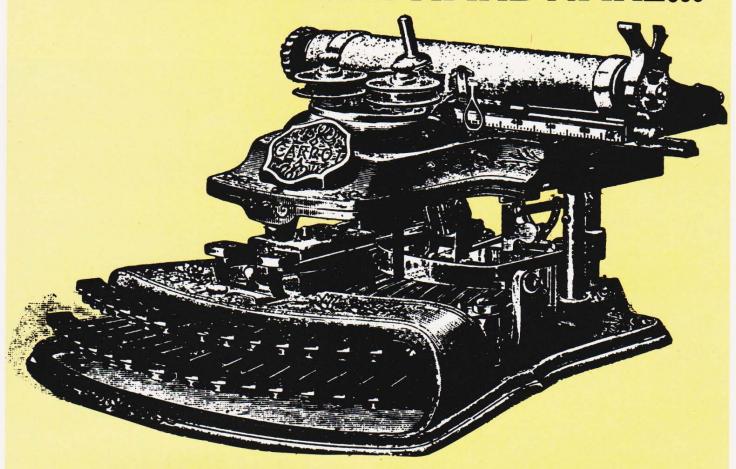
### Conversion Clues

Almost impossible with the VIC as all the control of the sound and graphics is done via PEEKs and POKEs. A look through the VIC manual would tell you all you need to know about them. Commodore BASIC is very straightforward and converts easily to other micros, but I'm afraid that's your only consolation!



```
:PRINT": TRINING NUMBER INSTRUCTIONS (Y/N)"; : INPUTC$
  IFC$="Y"THEN45
3
 PRINT"TIMEN SETTING UP GRAPHICS:
                                         PLEASE WAIT!"
4 POKE36879,40:POKE52,28:POKE56,28:CLR
  FORUC=7168T07679:POKEUC, PEEK (UC+25600):NEXT
  FORUC=7168T07207:READA:POKEUC.A:NEXT:POKE36869,255
  DATA16,56,108,84,84,124,40,68,16,16,16,16,40,40,16,16
  DATA60,126,90,255,165,155,129,129,16,84,56,254,56,84,16,0
9 DATA0,14,17,14,0,8,139,255
10 PRINT"∏":POKE650,128:TI$="000000":SC=0:POKE646,1:Y=30720
  S1=36874:S2=S1+1:S3=S2+1:S4=S3+1:V=S4+1:SL=3:F=8182
   SH=8130:MI=SH-22:AL=7742:FORG=1TOSL:POKEF,0:POKEF+Y,6:F=F+1:NEXT
14 POKESH, 0: POKEMI, 1: POKEV, 15
15 POKES1,0:POKES2,0:POKES3,0:POKES4,0:GETA$
16 IFMIKSH-22THEN19
   IFA$=" "THENPOKEMI.32:MI=MI-22:GOTO19
18 GOT023
19
   POKEMI, 32:MI=MI-22:POKES2, 225:POKES3, 195
   IFMIK7724THENPOKEMI,32:MI=SH-22
20
21 IFPEEK(MI)=20RPEEK(MI-22)=2THENSC=8C+50:GOT037
   IFPEEK(MI)=30RPEEK(MI-22)=3THENSC=SC+10:G0T040
   IFA$="Z"THENPOKESH,32:SH=SH-1:POKEMI,32:MI=MI-1:POKES1,225
24 IFSH=8119THENSH=8141:MI=SH-22
25 IFA$="M"THENPOKESH,32:SH=SH+1:POKEMI,32:MI=MI+1:POKES1,225
   IFSH=8142THENSH=8120:MI=SH-22
   POKEAL-23,32:IFAL>7742THEN29
28 AL=AL+INT(RND(0)*21)+1:B0=AL+22
29 POKEAL,2:AL=AL+23:IFPEEK(AL)=0THEN33
30 POKEBO, 32:B0=B0+22:POKEBO,3:IFPEEK(B0+22)=1THEN33
31 IFAL>8141THENPOKEAL-23,32:POKEB0,32:AL=7742
32 GOT013
 33 POKESH,4:POKEMI,32:PRINT"%TANAMPDDASHIP DESTROYED"
34 FORX=15T00STEP-0.05:POKES4,135:POKEV,X:NEXT
35 PRINT"3":SL=SL-1:F=8182:IFSL=0THEN42
 36 GOT012
 37 PRINT"SIIINSEDAMINE KENKEDKE KENYKEDKEUKE KEKKEKEKEKEKE
 38 FORX=1T0100:POKEAL-23,32:POKEAL-23,2:NEXT:F=8182
39 PRINT"3":GOTO12
 40 PRINT"S≒@@@@phhhhhhhhhhhhhhhhhhhhBi@H&Bi@Ei@Di@ #@Di@Ui@I
41 FORX=1T0100:POKEBO,32:POKEBO,3:NEXTX:F=8182:PRINT"ฏ":GOT012
42 PRINT"ាលាលា ដYOU SCORED"SC:PRINT"៧ដYOUR TIME WAS "TI$
 43 PRINT"MANOTHER GO(Y/N)"; INPUTC$: IFC$="Y"THEN10
 44 POKE36869,240:POKE36879,27:PRINT". END
 45 POKE36879,44:PRINT"D#":AA=7680:FORA=1TO44:POKEAA,102:AA=AA+1:NEXT
 AA=7746:FORA=1T044:POKEAA,102:AA=AA+1:NEXT
 47
                      T.PLANT 1983"
 48 PRINT"XX
49 PRINT"X"SPC(10)"# X####
50 PRINTSPC(7)"# }## X##
                                             " 14 1年製品製品() "
                                (編集書書)
                          51 PRINT"XXXI AM THE ALIEN AND I'MXX OUT TO DESTROY YOU"
 52 FORT=1T05000:NEXT
 53 POKE36879,90:PRINT"📭 /GUIDED MISSILE/IS A"
 54 PRINT"GAME IN WHICH YOU HAVETO DESTROY THE (**RLIENS**)
55 PRINT"DBEFORE HE DESTROYS YOU"
56 PRINT"NN BEWARE OF THE SPOOK BOMB WHICH CAN ONLY"
 57 PRINT"/KNOCK YOU OUT/ OF THESKY WHILE YOU PREPARE"
58 PRINT"TO FIRE YOUR MISSILES."
 59 PRINT"WONTHE ALIEN CAN DESTROY YOU AT ANY TIME THOUGH"
60 PRINT"XXX=PRESS ANY KEY TO GO ON"
61 GETA$:IFA$=""THEN61
62 POKE36879,142:PRINT"D■ALIEN SCORES:-##50"
 63 PRINT"X■SPOOK BOMB SCORES:-#10"
 64 PRINT" TRANTO GUIDE YOUR MISSILESONTO THE TARGET, SIMPLY"
 65 PRINT" MOVE YOUR SHIP TO THE
                                       LEFT OR RIGHT."
 66 PRINT"XXXXXII TO MOVE LEFT":PRINT"XXXII TO MOVE RIGHT"
 67 PRINT"NN ■ TO FIRE MISSILE"
68 PRINT"N YOU HAVE THREE LIVES
69 PRINT"N■PRESS ANY KEY TO START"
                                         SO GOOD LUCK"
                                                                              0
 70 GETA$:IFA$=""THEN70
 71 GOT03
READY.
```

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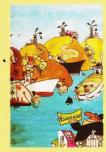
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GAMES MACHINE



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### COMPREHENSIVE COMPATIBILITY

The TAC-2 is compatible with all Atari computers and video games systems, VIC-20, Commodore 64, Sinclair Interface 2, Kempston Interface, and any other computer using the Atari standard 9 pin DIN connector.

Suncom is the trading name for Consumer Electronics, a company that was formed in the summer of last year to sell peripherals for home computers using the latest state of the art technology. Consumer Electronics is expanding its range in the autumn and their new products, details have yet to be released, will be featured in a Games Computing competition in the future

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### **Competition Rules**

Competition Rules

1. This competition is open to all UK readers of Games Computing, except employees of Argus Specialist Publications Ltd, their printers and distributors, employees of Consumer Electronics or anyone connected with them.

anyone connected with them.

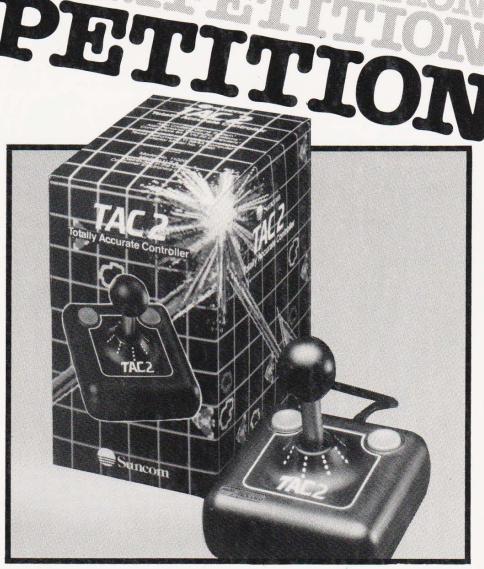
2. As long as the correct coupon is used for each entry there is no limit to the number of entries per person, photocopies will not be accepted.

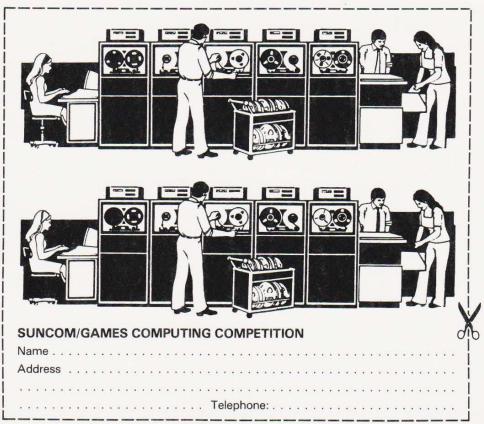
3. All entries must be postmarked before April 30, 1984.

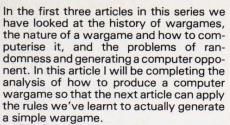
4. The prizes will be awarded to the first 10 correct entries picked out of the bag.

 No correspondence will be entered into with regard to the results and it is a condition of entry that the editor's decision is final.

6. The winners will be notified by post and the results will be published in a future issue of *Games Computing*.







The first thing to cover this month is the problem of data storage. In war games it is common for large amounts of data to be required to simulate the large number of forces available to each contestant, their location, status, etc. For instance let us

suppose that we wish to produce a war game where the board is divided into 30 areas; in each area up to 99 units of artillery, cavalry, and infantry can be present. In the computer we can set up an array of 30 (locations) by three (types of forces). However this will require an array of 90 elements and at 10 bytes per array



element that's 900 bytes of storage. Not that much, but how about 100 locations by 10 types of forces?

### **Cutting Down Data**

One way to pack down the data is to consider the limits placed on the values in each array element. In this case we will say that

GAMES COMPUTING APRIL 1984

# GAMIS

each element can contain 0 to 99. But the actual physical limit that can be held accurately in one array element is around 6 million, that's an awful lot of digits going to waste. If we multiply the amount of cavalry by 100, the amount of artillery by 10000, and add the result to the amount of infantry we should be able to store the three forces in one array element. For instance 16 artillery, 65 cavalry, and 48 infantry gives a result of 166,548 - the first two digits are the artillery, the second two are the cavalry and the last two represent the infantry. The BASIC subroutine to amalgamate the numbers is simple, as shown below.

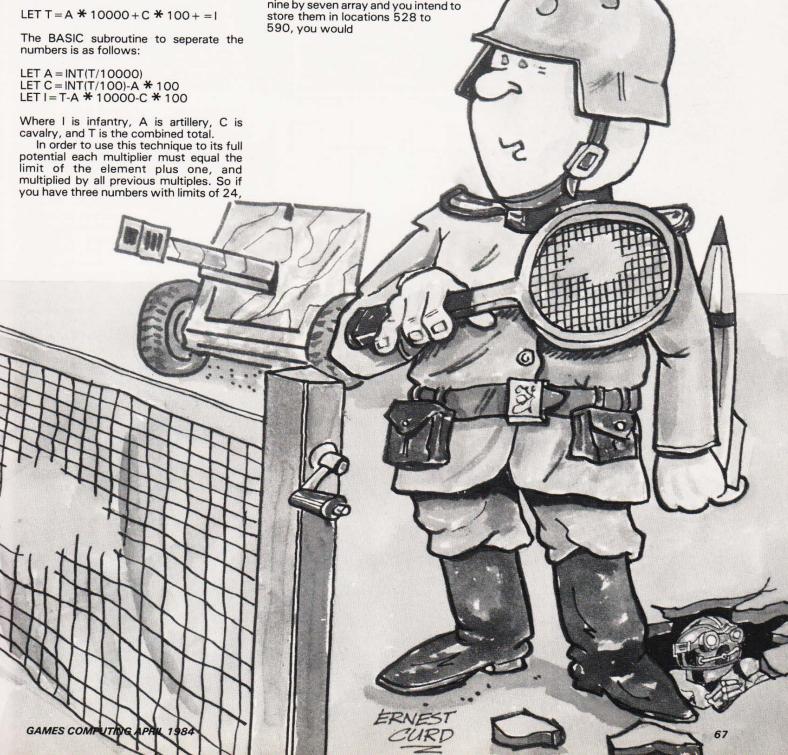
32, and 80, the first multiplier will be 25, the second multiplier will be 825 (25 \* 33), and the maximum will be 18825 (25 \* 33 \* 81). In using this method you will need to look at the way your particular computer stores data to find out what is the largest number it can store accuratley.

Another method of packing data is to reserve an area of memory and use it to POKE values into. This means that each value cannot exceed 255 (the maximum value that can be stored in one byte). There are no problems in calculating the locations of data. For instance, if you use a series of numbers that would normally be stored in a nine by seven array and you intend to

calculate the location of the data as follows:  $location = 527 + (0 to 8) \times 7 + (1 to 7)$ .

### Game Design

The next subject that we must cover is the difficult one of designing the playing board and calculating movement. We shall consider three different types of play area: the evenly divided board, the unevenly divided board, and the open board.



The evenly divided board is a copy of the traditional war game board. It is divided into areas by an even lattice pattern, usually squares or hexagons. Neighbouring areas are calculated so that square (4,5) would be next to squares (3,5), (4,4), (5,5), and (4,6). Hexagon (4,5) would be next to hexagons (3,5), (3,4), (4,4), (5,5), (4,6), and (3,6) — see figs 1 and 2.

The units available to each player run across the board one square or hexagon at a time, but usually being able to move no more than one square or hexagon at a time. Each square or hexagon can have a different terrain which can affect movement. Units occupy a particular square of hexagon and the units in this sort of game tend to be indivisible. Often the presence of enemy units in areas next to those that the friendly unit is to pass through can slow or stop the friendly unit.

This problem of movement across the grid relates to the objective that is to be achieved. If the objective is to reach a particular area then the area to move to is the one that puts you closest to that area; if the objective is to destroy enemy forces then the areas to move to are those next to enemy units.

The best path is the one that uses least movement points to reach the objective. It is found by looking at all neighbouring areas of find the one which best suits movement to the objective, then areas next to that, and so on until all a unit's movement points are used up.

### Alternative Design

The next kind of board is the unevenly divided board. In this the play area is subdivided into areas of varying size. The terrain effects of this kind of board are built in, so that difficult terrain has smaller areas than easy terrain. Movement is to neighbouring areas, and a list of neighbouring areas is stored. For example, a game with five areas as in figure three would have a list as follows: Area 1 neighbours 2,3,4,5; area 2 neighbours 1,3; area 3 neighbours 1,2,4; area 4 neighbours 1,3,5; area 5 neighbours 1,4. Units are considered to be in a particular area and to be divisible between neighbours.

Often units can only move to neighbouring provinces and the presence of enemy units in a province prevents movement out of that province. Movement here is also dictated by objective, but since it is usually more limited, it is usually easier to calculate.

Finally there is an open board. This board is more related to the wargaming tables used in figure wargaming. In this board each unit does not have an area location but an absolute location. That is the

location of a unit is considered to have an X and Y coodinate for its actual location, and the position on the screen is only an approximation to this location e.g. a unit 823 miles east and 288 miles south of the point of origin may be represented as being at position 82,29 on the screen. Movement is usually done by giving a direction and a distance to move. This type of board works especially well with featureless terrains where only a few self-contained units are involved. Sea battles work well on this type of board, also air and space battles as the third dimension can also be handled on this basis.

### **Last Words**

Finally in this article I will look at the question of play testing. Suppose you have designed and programmed your reenactment of David vs Goliath. How do you test that the game is programmed correctly, and how about the problem of giving each side a fair chance? And that most difficult of all items to include challenge?

The answer is to test the program by actually playing it. There are other things that can be done to ensure correct code: line-by-line reading of the code should pick up any gross errors of programming; and checking the major equations in the program by hand, calculating them outside the program will help to show whether they are producing sensible results. But some things can only be tested by actually playing the game. You must be prepared to spend many hours in intensive testing of the game, and if possible get a friend to help in the testing. Independent minds (or even fingers) can often find things that you would never have thought of.

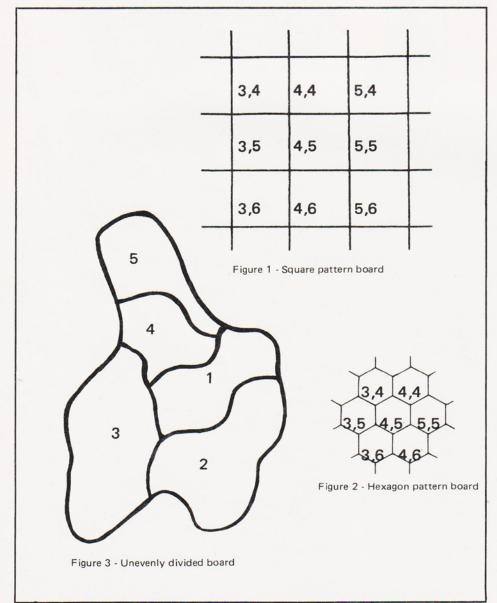
There is a difficult line to draw between the wargame that is irretrievably boring and the game that is so close to interesting that it will turn out to be a masterpiece. If your game looks lost don't give up! Fiddle with the formulae, the starting positions the initial forces. Look at the board to see if it can be rearranged. If all else fails then go back to the original design and try the problem as a conventional board game. You'll be surprised how quickly problems show themselves when you are moving cardboard units over a piece of paper.

### Presentation

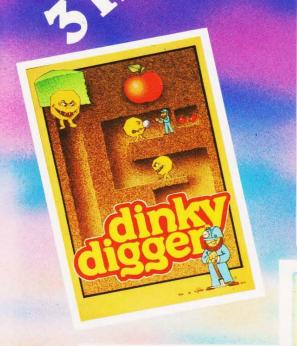
Lastly a quick word on a most important subject: presentation. I cannot stress too highly that an attractive game leads to satisfied players. If your computer has colour and sound then use them as extramethods of passing information on to the player: Have a good map to play the game on; use user defined graphics to represent forces on the map. Don't bombard the player with a mass of figures that he doesn't read, give him only the information that he will read to make the decisions that he is faced with at that moment. Remember it is a game that you're designing.

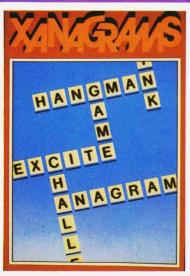
So we have now covered all the major problems associated with designing a wargame, many of the things discussed in the series will apply to other stategic games, and to adventures, so don't disregard this information just because it has been directed at wargames.

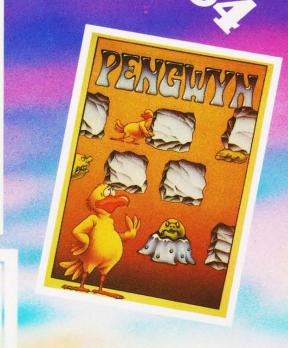
In the next two articles we will be going through the design process to actually produce a wargame, and there will be a competition with a cash prize and the chance to have your game published by Argus Press Software — so get designing now!



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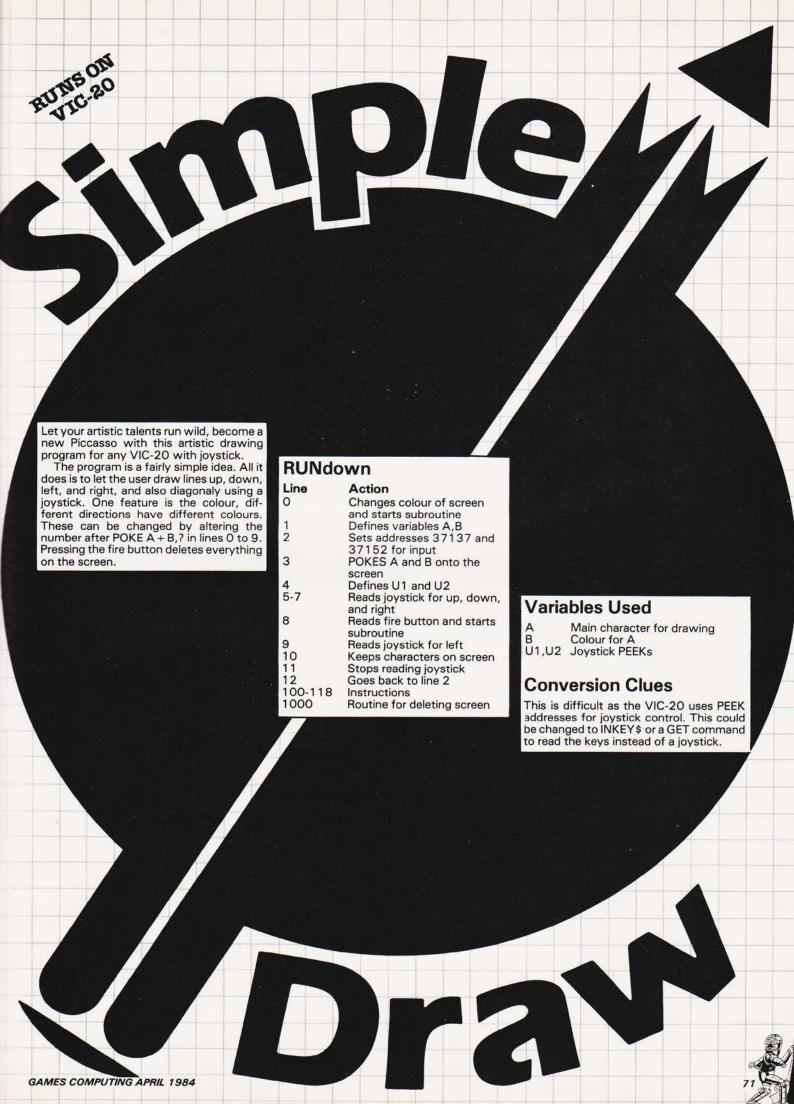
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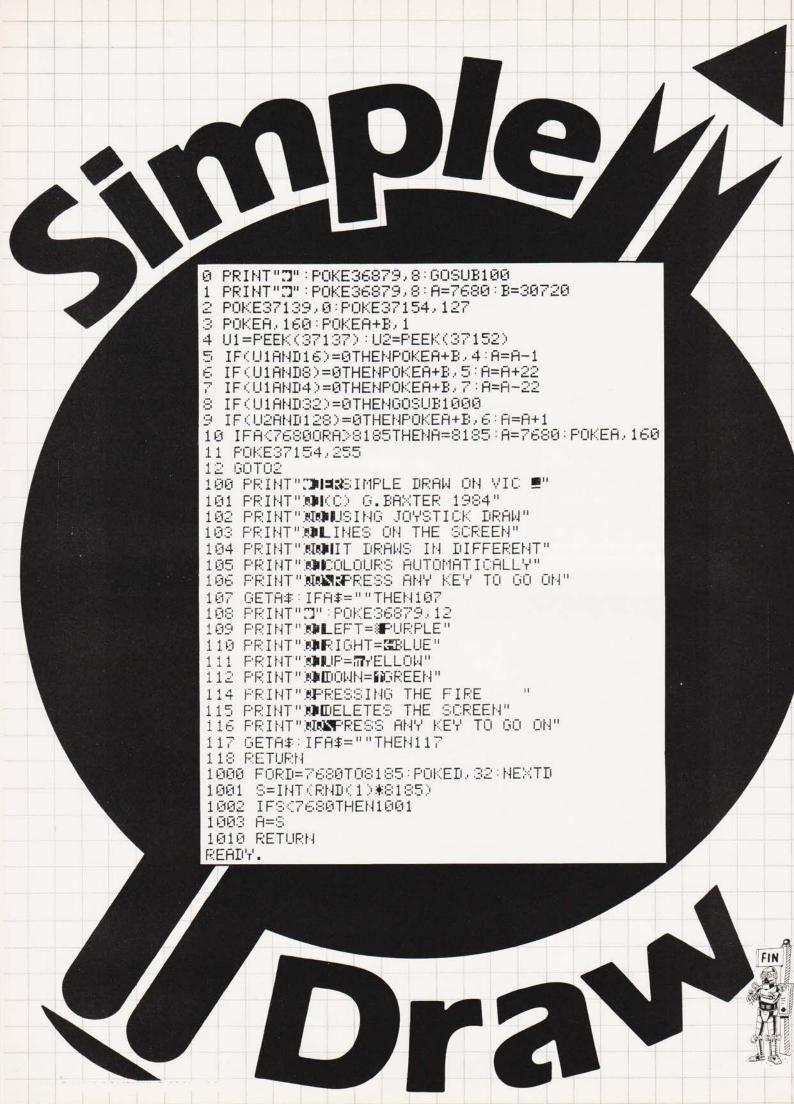
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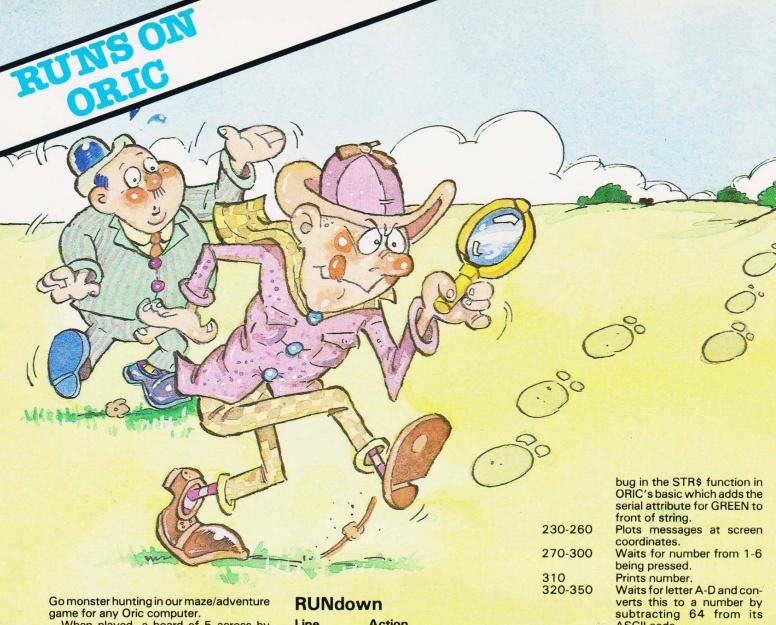
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When played, a board of 5 across by four down is displayed on the screen. Hidden on the board are 20 monsters. These monsters occur in two types, each of which can occur in 5 different colours. You have only twenty turns to hunt down the monsters. You may enter the coordinates of two locations at a time. The monsters hiding in these locations will then be displayed on the screen until you press the space bar. Your task is to find the pairs of monsters which are identical in both shape and colour. If you do locate a matching pair, they will remain on the screen. You must try to locate all ten pairs of matching monsters before your twenty turns are up.

If you enter the coordinate of a location which is already being displayed, the message 'silly!' will be displayed and you will have wasted a turn. You must then press the space bar to get your next turn. You must tell the computer which square you want to view by typing in the coordinate in the form of number letter . eg. 2D not D2. The computer will not allow stupid entries

The two monsters are built up out of the characters available in the alternate character set (TELETEXT graphics characters) and are thus not of a very detailed nature. It is quite straightforward to redefine these characters by POKING into the appropriate area of RAM to create monsters of your choice. These characters are held in the variables UA\$,UB\$,UC\$, TA\$,TB\$,TC\$ in lines 110-140.

RUNdov	vn		verts this to a number by
Line	Action		subtracting 64 from its ASCII code.
5	Turns cursor off.	355-356	Sets variables for array and
6	Sets score to zero.		graphics locations.
10	Dimensions the array A(X)	357-360	Plots location.
	which holds the monsters	361	Check if already displayed.
	positions.	362	Calls routine to plot
20-30	Clears screen and chooses		graphics.
	foreground and background	365-480	Routine for second location.
Wid_	colours.	490-620	Waits for space bar to be
35	Defines Z\$ as a blank string	222 222	pressed.
	used to erase 1 line on	630-660	Plot blank strings to erase
40	screen.	600	areas of screen.
40	Calls subroutine for instruc- tions.	680	Calls routine to erase screen
50-60	Sets number of turns left		if you have not matched pair of monsters (KK <> 1).
50-60	and defines colours.	800	If score = 10 call routine to
90	Calls subroutine which fills	000	win.
30	the array A(X) with the	810-870	Routine for losing.
	monsters in a random posi-	880	Turn cursor on again.
	tion.	1000-1200	Draws board by setting
100	Calls routine to draw the		serial attributes in TEXT
	board.		mode.
110-140	Defines characters (these	2000-2070	Fills array A(X) with random
	are chosen from the a'cer-		numbers from 1-20 with no
	nate set!!)		two locations identical.
150-160	Sets serial attributes on		Instructions routine.
	screen to alternate		Music ? routine.
	character set/standard set.	4120-4140	
200-790	Main control loop :- repeats	and	W
	loop until SC (score) = 10 or		Wait for space bar.
210	E% = 1 all turns used.	5000-5500	Erase graphics already plot- ted.
210	Decrease number of turns left.	6000 6120	Plots graphics for monster
225	Turns to string.	0000-0120	held in location ZZ.
226-227	Used to strip first character	7000-7100	
220-227	off string to overcome the		Music routine.
	on carrie to overcome the		



```
REM ** MONSTER HUNT
  REM ** a game to test your memory **
  REM ** for the ORIC1 **
 4 REM ** (C) S.W. Lucas January 1984 **
 5 PRINTCHR$(17) : REM ** TURN OFF CURSOR
 6 SC=0 : REM SET SCORE TO ZERO AT START OF GAME
 10 DIM A(20): REM ARRAY USED TO HOLD BOARD LOCATIONS
 20 PAPER6: INK4
 30 CLS
 35 Z$="
 40 GOSUB 4000
 50 PAPER 6: INK4
 60 E%=21:REM ** holds the number of turns left !
 90 GOSUB2000: REM FILL ARRAY WHICH HOLDS BOARD LOCATIONS
 100 GOSUB1000: REM DRAW THE BOARD
 110 WA$="J[[":WB$="*L.":WC$="JKJ
 120 UA$="5J":UB$="J5":UC$="6I"
 130 VA$="6 I":VB$=CHR$(34)+"\!":VC$="H£4"
 140 TA$=" 5":TB$="J[" :TC$="JJ"
 150 FOR P=2 TO 22:PLOT2, P, 9:NEXT: REM ALTERNATE CHARACTER SET
 160 FOR P=2 TO 22:PLOT29,P,8:NEXT:REM STANDARD CHARACTER SET
 200 REPEAT
 210 E%=E%-1
 220 PLOT30,3, "goes left"
 225 EE$=STR$(E%)
 226 EE$=MID$(EE$,2)
 227 EE$=EE$+" "
 228 F=FRE("")
 230 PLOT32,5,EE$
 240 PLOT30,5,1
 260 PLOT30,8,"loc. 1 ?"
 270 REPEAT
 280 GET AA$
 290 AA=VAL (AA$)
 300 UNTIL (AA>O AND AA<6)
 310 PLUT32, 10, AA$
 320 REPEAT
 330 GET AB$
 340 UNTIL AB$="A"ORAB$="B"ORAB$="C"ORAB$="D"
 350 AB=ASC(AB$)-64
 355 ZZ=(AB-1)*5+AA:ZF=ZZ:REM LOCATION IN ARRAY
 356 XX=AA*5-1:YY=AB*5-1:XF=XX:YF=YY :REM CO-ORDINATES FOR PLOTTING
 GRAPHICS
 357 PLOT 30,10,1
 360 PLOT33, 10, AB$: KK=0
 361 IF A(ZZ)=0 THEN PLOT 29,1,"Silly!":KK=1:GOTO600
 362 GOSUB 6000 : REM PLOT GRAPHICS
 365 PLOT30,13,"loc.2 ?"
 375 PLOT30,15,1
 380 REPEAT
 390 GET AC$
 400 AC= VAL(AC$)
 410 UNTIL (AC>O AND AC<6)
 420 PLOT32, 15, AC$
 430 REPEAT
 440 GET AD$
 450 UNTIL AD$="A"ORAD$="B"ORAD$="C"ORAD$="D"
 460 AD=ASC(AD$)-64
 470 PLOT33, 15, AD$
 475 XX=AC*5-1:YY=AD*5-1:XG=XX:YG=YY:REM CO-ORDINATES FOR PLOTTING G
 RAPHICS
 476 ZZ=(AD-1)*5+AC:ZG=ZZ:REM ** LOCATION IN ARRAY
 477 IF ZF=ZG THEN PLOT 29,1,"Silly!":GOTO600
 478 IF A(ZZ)=0 THEN PLOT 29,1, "Silly!": KK=1:GOTO600
 480 GOSUB6000: REM PLOT GRAPHICS
 490 PLOT30, 20, 1
 590 PLOT31,20," (SPACE>"
 600 REPEAT
 610 GET FA$
 620 UNTIL FA#=" "
 630 PLOT30,13,"
 640 PLOT30,8,"
 650 PLOT32,15,"
                  ":PLOT32,10," "
 655 PLOT29,1," ":REM 6 SPACES
660 PLOT 30,20," "
680 IFKK<>1 THEN GOSUB 5000:REM ERASE GRAPHICS
                      ": REM 6 SPACES
 790 UNTIL EX=1 OR SC =10 : REM REPEAT UNTIL WON OR RAN OUT OF TURNS
```

800 IF SC=10 THEN GOTO 7000 810 CLS:FORX=1T02:PLOT1, X, X:PLOT2, X, 14:PLOT10, X, "YOU LOST!!!":NEXT 814 FOR X=1 TO 4:FORY=1TO150:SOUND1,Y,8:SOUND2,255-Y,8:NEXTY,X 815 SOUND1,0,0:SOUND2,0,0 820 PRINT:PRINT:PRINT:PRINT"Want another go <Y>es or <N>o ?" 830 REPEAT 840 GET G\$ 850 UNTIL G\$="Y" OR G\$="N" 860 IF G\$="Y"THENPRINTCHR\$(17):RUN 870 PRINT: PRINT "GOODBYE... THANK YOU FOR PLAYING" 880 PRINTCHR\$(17):REM TURN ON CURSOR AGAIN 890 END 999 REM \*\* SUBROUTINE TO DRAW BOARD FOR THE GAME \*\* 1000 AA=16:AB=23:AC=2:AD=0 1001 CLS 1002 FOR A = 1 TO 41005 FOR X = 1 TO 51010 PLOTS, X+AC, AA 1020 PLOTS, X+AC, AB 1030 PLOT13, X+AC, AA 1040 FLOT18, X+AC, AB 1050 PLOT23, X+AC, AA 1060 PLOT28, X+AC, 22 1070 NEXT X 1080 F=FRE("") 1090 AD=AA: AA=AB: AB=AD: AC=AC+5 1100 NEXT A 1110 FOR A=1 TO 4 1115 AA\$=CHR\$(64+A) 1120 PLOTO, A\*5, 1: PLOT1, A\*5, AA\$ 1125 F=FRE("") 1130 NEXT A 1140 PLOT1,1,1 1145 FOR A = 1 TO 5 1150 AA\$=CHR\$(48+A) 1160 FLOT 5\*A-1,1,AA\$ 1170 F=FRE("") 1180 NEXT 1190 PRINT: PRINT: PRINT: PRINT: PRINT: PRINT: PRINT 1200 RETURN 1999 REM \*\* SUBROUTINE TO FILL ARRAY FOR BOARD LOCATIONS \*\* 2000 CLS:PRINTSPC(7); "Please wait a moment" 2005 FOR X = 1 TO 202010 REPEAT 2020 Y= INT(RND(1)\*20)+1 2030 IF Y>20 OR Y <1 THEN PRINT"ERROR in the random number generat ion": END 2035 REM \*\* CHECK TO SEE IF ARRAY ELEMENT IS EMPTY OR NOT 2040 UNTIL A(Y)=0 2050 A(Y) = X2060 NEXT 2070 RETURN 3999 REM \*\* SUBROUTINE FOR TITLES \*\* 4000 PAPER 0 : INK 6 4005 CLS: FORX=1T02 4010 PLOT1, X, 14: PLOT2, X, X 4020 PLOT12, X, "Monster Hunt" 4030 NEXT 4040 PRINT: PRINT: PRINT: PRINT: PRINT 4050 PRINT"The game is played on a 5 x 4 board," 4060 PRINT"labelled 1 - 5 across and A to D down." 4070 PRINT"You must tell the computer which" 4080 PRINT"square you wish to view by typing in" 4090 PRINT"the co-ordinates of the square in the" 4100 PRINT"form of number letter (eg. 4D or 2A)" 4101 RESTORE 4102 FOR T=1 TO 34: READ X 4103 MUSIC 1,3,X,0 4104 FLAY 1,0,4,500 4105 WAIT 10 4106 NEXT: PLAYO, 0, 0, 0 4110 PLOT1, 22, 1: PLOT5, 22, "Press <Space Bar> to continue" 4120 REPEAT 4130 GETH\$ 4140 UNTIL H\$=" " 4150 FOR X = 5 TO 13 4160 PLOT1, X, Z\$ **GAMES COMPUTING APRIL 1984** 

4170 NEXT 4172 FOR X=5 TO 8:PLOTO, X, 7:NEXT X 4180 PLOT1,5, "Hidden on this grid are 20 monsters." 4190 PLOT1,6,"There are 2 different types of " 4200 PLOT1,7,"monster hidden on the board and they" 4210 PLOT1,8, "are found in five different colours." 4220 FOR X = 15 TO 20 : PLOT 0, X, 3 : NEXT X 4230 PLOT 1,15, "You have only twenty turns in which " 4240 PLOT1,16, "you must try to discover the location" 4250 PLOT1,17, "of all ten pairs of identical monsters" 4260 REPEAT 4270 GET H\$ 4280 UNTIL H\$=" " 4290 RETURN 5000 DD=A(ZF):DE=A(ZG) 5010 IF(DD=1ANDDE=2)OR(DD=2ANDDE=1)THEN SC=SC+1:A(ZF)=0:A(ZG)=0:RET URN 5020 IF(DD=3ANDDE=4)OR(DD=4ANDDE=3)THEN SC=SC+1:A(ZF)=0:A(ZG)=0:RET URN 5030 IF(DD=5ANDDE=6)OR(DD=6ANDDE=5)THEN SC=SC+1:A(ZF)=0:A(ZG)=0:RET URN 5040 IF (DD=7ANDDE=8) OR (DD=8ANDDE=7) THEN SC=SC+1:A(ZF)=0:A(ZG)=0:RET URN 5050 IF(DD=9ANDDE=10)OR(DD=10ANDDE=9)THEN SC=SC+1:A(ZF)=0:A(ZG)=0:R ETURN 5060 IF(DD=11ANDDE=12)OR(DD=12ANDDE=11)THEN SC=SC+1:A(ZF)=0:A(ZG)=0 : RETURN 5070 IF(DD=13ANDDE=14)OR(DD=14ANDDE=13)THEN SC=SC+1:A(ZF)=0:A(ZG)=0 : RETURN 5080 IF(DD=15ANDDE=16)OR(DD=16ANDDE=15)THEN SC=SC+1:A(ZF)=0:A(ZG)=0 : RETURN 5090 IF(DD=17ANDDE=18)OR(DD=18ANDDE=17)THEN SC=SC+1:A(ZF)=0:A(ZG)=0 : RETURN 5100 IF(DD=19ANDDE=20)OR(DD=20ANDDE=19)THEN SC=SC+1:A(ZF)=0:A(ZG)=0 : RETURN 5110 FOR N = 0 TO 2 5120 PLOTXF,YF+N," ": REM 3 SPACES 5130 PLOTXG, YG+N," ": REM 3 SPACES 5140 NEXT N 5500 RETURN 5998 REM \*\* ROUTINE FOR PLOTTING GRAPHICS \*\* 5999 REM \*\* FIRST SELECT COLOUR CO \*\* 6000 L=A(ZZ) 6010 IF (L<5) THEN CO=1 (L>4 AND L<9) THEN CO=2 6020 IF 6030 IF (L>8 AND L<13) THEN CO=3 6040 IF (L>12 AND L<17) THEN CO=4 6045 REM \*\* CO = COLOUR 6050 IF (L>16) THEN CO=5 6060 FOR N=0 TO 2 : PLOTXX, YY+N, CO: NEXT 6080 IF L=10RL=20RL=50RL=60RL=90RL=100RL=130RL=140RL=170RL=18THENL= OELSEL=1 6090 REM L=0 TYPE 1 MONSTER L=1 TYPE 2 MONSTER 6100 IFL=0 THENPLOTXX+1, YY, TA\$:PLOTXX+1, YY+1, TB\$:PLOTXX+1, YY+2, TC\$ 6110 IFL=1 THENPLOTXX+1, YY, UA\$: PLOTXX+1, YY+1, UB\$: PLOTXX+1, YY+2, UC\$ 6120 RETURN 7000 CLS:PRINTSPC(10) "YOU WIN!!!!" 7010 PRINT:PRINT:PRINT:PRINT:PRINT 7020 PRINT"Want another go <Y>es or <N>o ?" 7021 RESTORE 7022 FOR T=1 TO 34 7023 READX 7024 MUSIC1,3,X,0 7025 PLAY1,0,4,500 7026 WAIT 10 7027 NEXT 7028 PLAY0,0,0,0 7030 REPEAT 7040 GET G\$ 7050 UNTIL G\$="Y" OR G\$="N" 7060 IF G\$="Y"THENPRINTCHR\$(17):RUN 7070 PRINT:PRINT"GOODBYE... THANK YOU FOR PLAYING" 7080 PRINTCHR\$(17): REM TURN ON CURSOR AGAIN 7090 DATAB, 5, 8, 5, 8, 4, 8, 5, 7, 5, 6, 4, 7, 3, 8, 6, 9, 4, 9, 5, 6, 3, 8, 7, 6, 5, 4, 7, 4, 8, 2, 9, 4, 5 7100 END **GAMES COMPUTING APRIL 1984** 

78

# TOY FAIR

Late January sees the staging of the toy world's most important show at London's Earls Court. It is there that the annual British Toy and Hobby Fair takes place and is the event at which the trade decide exactly what products they will stock in the coming year - especially prior to

Christmas, the toy trade's boom selling period.
But this year there was a new generation of toys taking over from the traditional type of toys in the shape of video games, home computers, computer games and electronic hand-held toys. Although this wasn't the first time such toys had been on display at the Toy Fair this year it was noticeable that several toy firms are now spending a lot of money on such equipment.

Games Computing spent a day at the Fair and this is what we found.

#### PARKER PILOTS NEW **GAMES**

Parker is one of the relatively newer arrivals on the video games scene but have entered the market in a big way. Right from the start they seem to have got their policy right by anticipating the fall-off in sales of video games hardware in favour of the home computer. Instead of continuing solely with VCS games they made the wise move of producing their best selling (and also new) titles for the most popular home computers. Of course, they are still bringing out products for the Atari 2600 VCS, Intellivision, Colecovision and Philips G7000.

But the news for 1984 is that the Spectrum with Interface 2 will be a big favourite this year and as a result Parker is to bring out several cartridges to plug into

this new Spectrum extra.

Currently in production are two arcade style games, the very popular Gyruss and another game in the Star Wars vein, Star Wars — the Arcade Game. From the word go it's always been Parker's policy to produce games software based on original arcade games or to get the rights to develop games from films.

Due for release in August Parker promises to reproduce the video game Gyruss as faithfully as possible to the original game. If they succeed it should prove to be a great game. The concept of the game is an alien shoot out theme - but with a difference. The action happens around the centre of the screen. You control a space ship and must shoot the aliens as they fly in an ever increasing spin outwards over the screen. But you dodge the red coloured aliens - these are the bad boys and if you make contact with them your ship is blown up. Bonus points are given for staying alive over a certain length of time and if you shoot down particularly nasty aliens. For true arcade fans Gyruss will definitely be an addictive game.

Star Wars - the Arcade Game looks set to be a winner too, providing the transferral process to VCS and computer is

not too restricting.

The scenario of this Star Wars adventure is the famous trench and you are in command of Luke Skywalker's craft. You must navigate the ship down the trench, blowing up the red fire balls on your flight path in order to survive. At the end of the trench you must fly your ship down a shaft and destroy the Death Star. You have the option of flying to various planets in the



galaxy with difficulty levels varying on each planet. You have to guide your craft through space, shooting down Federation Fighters which zoom up in front of you. The original game has a 3-D effect which makes your dabble with death particularly frightening and realistic.

Both these games should be available for the Atari range of home computers, the Spectrum 48K (Interface 2) and Commodore 64 later in the year. They will also be available for use on the Atari 2600 and Colecovision. So look out for more news of these brand new games in future editions

of Games Computing.
At the moment Parker plans to stick with the Spectrum, CBM 64 and Atari (Texas too) as their hardware base for games development. There are no plans to produce games for the BBC micro because Parker feel that currently that machine is well catered for in software terms and believe it is more of an educational computer than a games computer.

#### ATARI ACTION

With the label of market leader sticking firmly to Atari it looks like their main worry for the future is to continue to produce good quality software for both the VCS type or systems and computer systems.

At the Toy Fair Atari was heavily in evidence with their entire range of new games on show. The latest addition to the VCS range are two games. One is the first in the Peanuts series and is called Snoopy and the Red Baron. The second is the now well known Mario Brothers which is a development from the arcade hit, Donky Kong.

Released in early January, the first game is all about Snoopy taking on the Red Baron — in his kennel? What will they think of next? Snoopy's mission is to recover his stolen food supplies of hamburgers, ice cream cones, and popcorn from the Red Baron by sharpshooting the Baron down. When the Baron drops any morsel of food you must watch carefully and catch it by touching it with Snoopy's doghouse. Vigilance is needed because the wicked Baron also makes sneaky drops of skulls and cross bones - and if you catch either of these you lose all the supplies you've so far recovered.

Naturally you score points for shooting the Red Baron and collecting food supplies plus bonus points at the end of a round.

This is a one player game and costs £19.99. It really is aimed at younger children and will make a good game for that age group.

In the Mario Brothers you must help the two of them, Mario and Luigi get rid of pests infesting their house. There are several different types of pests to get rid of including shell creepers, sidesteppers and fighterflies. Each variety has to be tackled in a different way in order to destroy them.

Points are scored for knocking pests off the floor levels, collecting coins and bonus wafers for outwitting the icecream

man called Slipice.

Once you start earning bonus objects like wafers the points up for grabs get really high. Altogether there are eight skill levels and you can play either by yourself or rope a friend in to play with you. This game is more expensive than Snoopy, costing £29.99 and it will be on sale from February.

#### KIDS KEY PADS

Specially for very young children comes a new venture from Atari with educational games and a Kids Controller.

The games have been designed to teach children the basics of counting and letter recognition. So far three games are on sale, Cookie Monster Munch, Alpha Beam with Ernie and Big Bird's Egg Catch.

Each of the games is fun to play yet has a purpose to them and should make early learning fun to do. They would be ideal for a mother to play with her young children and will keep them busy but won't waste

For in Cookie Monster Munch the idea is to teach the basics of addition and subtraction. The child controls the cookie monster and makes him pick up cookies, put them in the cookie jar and count them as he munches them one at a time.

The Kid's Controller has been specially developed for small fingers to use. The controller is rectangular in shape and made of brightly coloured plastic. On each one there are a selection of numbered buttons over which you must place an overlay corresponding with whatever game your child is playing - they come with each individual game. They are especially attractive to children with a funny illustration of the game appearing on each overlay card.

In Alpha Beam with Ernie the object is to pick up and place letters which are floating in space (on screen) in the corresponding fuel bays in the space ship. Again you use the Kids Controller to operate the game and by playing the game young children will learn to recognise the letters of the alphabet.

Finally, Big Bird's Egg Catch is the newest of the Sesame Street library. The



aim of this game is to teach children visual skills needed for early reading and problem solving. The child must help Big Bird catch white and golden eggs thrown down to him in order to help him win the Country Fair Egg Contest. For every egg he catches the child scores a point (five for a golden egg) and the child must manoeuvre Big Bird to stand under a chute to catch each egg - otherwise it will fall to the ground and smash.

There are 10 skill levels and games for one or two players and is once again played using the Kids Controller. Atari say that this game 'helps impart a sense of timing and direction, together with improving hand and eye-coordination'

If you buy the Kid's Controller seperately it will cost you about £15, but Atari is currently running a special offer whereby you can buy both the controller and the game together for £29.99. Each individual game costs £19.99.

#### ATARISOFT

Atarisoft — that's the new name given to Atari's range of computer games developed from existing VCS games.

So far the firm has concentrated in producing software for the Commodore 64 (in cartridge form) - titles include Centipede, Defender, Dig Dug, Pac Man, and Robotron 2084 and all are out now. For the TI/994a, also in cartridge form, are Defender, Donkey Kong, Pac Man, Picnic Paranoia and Protector II. The VIC 20 has the same games as the CBM 64 plus Donkey Kong, while the Spectrum has cassette versions of Galaxian, Pac Man and Ms Pac Man.

But the latest computer to receive attention from Atarisoft is the BBC. Unlike Parker Video Games Atari has decided to produce some of its games for the BBC machine despite the fact that it already has an extensive base of games available for it. Coming soon for the BBC Micro are titles like Dig Dug, Donkey Kong, Ms Pac Man and Pole Position.

Prices of the games from Atarisoft range from £14.99 for the Spectrum games to £19.99 and £24.99 for the other games. Prices for the BBC games as yet are not fixed. Don't forget to watch out in Games Computing for reviews of these games in future issues of the magazine.

#### YOUR VERY OWN ROBOT

Specialists in electronic toys Tomy has come up with a marvellous creation which will keep children and adults alike quite for hours.

The firm's voice recognition robot called KI-KU ZO on its front looks a bit like the android that soared to fame in the space fiction film Star Wars. He's a bit smaller though and is made of blue and white sturdy plastic. But inside he's full of the very latest in voice recognition electronics.

You can make him obey your every (well, all of eight) command(s), by first programming him to respond to such things as: stop, talk to me, pick up, put down, go forward, go back, turn left and turn right. You do so by pushing the eight yellow buttons located on his control panel on the front of his chest, and by speaking through a hand-held receiver.

When he moves, or listens to your voice you'll see his eyes light up and start flashing. He looks like quite a friendly soul and one that I can imagine many people

will want to have around the house! The only slight drawback is the price. It currently stands at £35 which is a lot of money, but when you compare it with the price of a video game cartridge it doesn't sound so unreasonable. The question to ask, of course, is how long will its novelty value

#### 3-D GAMES

A 1984 best-selling range could well be the Tomytronic 3-D Games from Tomy

These are superb electronic hand-held games featuring 3-D graphics and one with stereo sound during play. Tomy have really excelled themselves with their new game Stereo Sky Fighters, an advanced development on a similar 3-D game brought out last year. The 3-D effect is tremendous as planes fly towards you and loop the loop across a three dimensional

The stereo version has individual sounds for the planes and the machine gunfire, as well as two bi-planes that loop and loop. Although this toy costs about £30 you'll find it totally addictive and won't be able to put it down for ages.

Other similar games in the range include Sky Attack in which you control three laser firing tanks and you must use these to shoot down the enemy craft, or you can avoid them by dodging across the screen. There's also a car racing game called Thundering Turbos with special buttons for speeding up and slowing down your car as you race around the dangerous twists and turns of the course. Planet Zeon sees you in command of a space fighter fleet and you must destroy the enemy craft and capture the alien fuel tanker too. All in 3-D.

The other brand new addition to the range is Shark Attack and is based on the Sky Attack game. In Shark Attack what seem like hundreds of wide-mouthed sharks are attacking three divers, which you control. The divers have special spears to defend themselves from the sharks use these to kill the sharks before they devour your divers. You can also avoid the sharks by dodging across the screen so that you miss being swallowed up by those great big jaws. The visual effects are so realistic that when a diver gets eaten you can almost feel those teeth sinking into your own flesh! Definitely not one for the squeamish. The price for this game is about £27.

#### BANDAI BOOST

Another electronic toy manufacturer showing their range of new toys for 1984 is Bandai and they appear to be an enormous improvement to the firm's range.

Bandai's pocket sized arcade games have been improved not only in looks, but also in playability with several new variations to the theme. Most noticeable is the mini hand-held game Space Centurian Gundam which consists of three screen games with joystick controller, a coloured screen background, sound effects and three phases of battle scenes in one game.

Similarily Bandai's version of the sucessful arcade hit Zaxxon shows a marked improvement with an in-built watch to boot.

In this game there are two different battle scenes displayed in lcd graphics, a iovstick controller and sound effects. The game incorporates a three dimensional effect and five different game patterns. In addition you'll find buttons for firing missiles and dropping bombs on the un-

suspecting enemy.

But a completely new addition to Bandai's range are the table top style arcade games. These are styled to look like coffee tables with arcade games incorporated into them, only the Bandai band are on a miniature scale. They have a look all of their own with the screen located on the 'top' of the table and the control buttons situated on the side of the table.

First off, there's a three colour flourescent game called Dynaman with a joystick controller, an attack button and sound effects. The object of the game is to kill off the enemy using your dynarockets and dynarobot and survive for as long as possi-

ble from enemy fire.

Others in the range, with the same facilities except for the three colour display are Toutankhamon and Space Guardian Gundam. In the first you hve to find the hidden treasure of Toutankhamon going through five different scenes. You must climb up a number of levels with a pyramid collecting things on your way and avoiding

sudden dangers.

In Space Guardian Gundam there are three scenes in which to play for your life. In the first you must shoot the enemy spaceships and avoid all missiles fired by them. And in the second and third scenes you continue your onslaught to victory — if you're lucky. This game features a similar coloured screen background to Space Centurian Gundam as well as the standard joystick controller, sounds button fire and built-in clock.

#### MORE FROM BANDAI

Still remaining with this theme is another game in the range of Bandai products, the arcade, two-player arcade style Space Guardian Gundam. This time it's the guardian against the Zions (whoever they may be) and its features include four bright colours (white, red, blue and green), two battle scenes and a game for two players or two skill levels for one player. You can also adopt one of two strategies, defence or attack it's up to you. Again this games has a built-in joystick controller.

Finally, Bandai has come up with an electronics robot game. Made out of chunky white plastic, with jointed arms, legs and chest the lcd game is located in the centre of his chest. There are three phases of battle scenes to play and you have to build up the robot as you play the game virtually following the story line. In the first part of the game you must make your robot avoid the missiles (the robot character is featured in the lcd game) and you must win the first to make up your own robots shoulders. Win the second to get the legs and so on.

You are told which part of the robot's body to add next by a sign on the screen, but you can only add on a piece of his body by actually winning the phase of a game. And it's only when you finally win the third and last phrase that you will be able to completely build your robot.

So you'd better make sure your arcade playing is right up to scratch or else you'll have loads of arms and legs all over the place!

So that's what to expect in the shops later in the year. Remember that most of the toys will not be appearing in the shops until after the middle of 1984 so you will have to wait and see for yourself what they're 🧖 like to play.



#### AGF PROGRAMMABLE INTERFACE

4£100pp

Recognised as the only true Hardware Programmed joystick interface this product offers all the features associated with such a design.

You can use any Atari-compatible joystick controller with any software for your Sinclair Spectrum or ZX81, not just those with a joystick option.

Movement of the joystick is recognised by the computer exactly the same as pressing the appropriate control keys, and can therefore give the most immediate response to that movement. The hardware programmed design works with all possible key-reading methods, both BASIC and Machine Code.

Eight directional movement, with or with-out the fire button being pressed, can be achieved by only programming the left, right, up, down and fire keys required by the game.

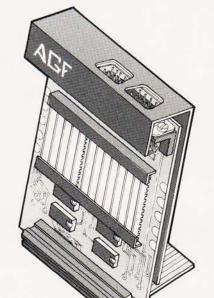
Programming is achieved by a two-digit code, which is looked up on the Programming Chart supplied, for each direction and firing button. These two numbers are then sel-ected on a pair of leads which are clipped onto appropriately numbered strips on the interface.

Once configured this can be marked onto a Quick Reference Programming Card for storing with the game. As the programming is *not* power dependent the interface can be immediately used when next switched on.

The keyboard remains fully functional and can be used simultaneously with the joystick.

An integral rear expansion connector means there is no need to remove the interface to connect other peripherals.

NB. A recent design improvement now means that the AGF Programmable Interface works with the new Quickshot II rapid "Auto Fire" feature.



KEY FEATURES

- Programmable design gives TOTAL software support.
- Accepts Atari, Competition Pro, Wico, Starfighter, Quick Shot, Le Stick etc.
- Rear extension connector for all other add-ons.
- Free demo program and instructions.

#### PACKAGE CONTENTS SUPPLIED

- Programmable Interface Module as illustrated, complete with clip-on programming leads.
- Self adhesive programming chart detailing how to define which key is simulated by UP, DOWN, LEFT, RIGHT, and FIRE.



One pack of ten Quick Reference Programming Cards for at-a-glance setting to your games requirements.

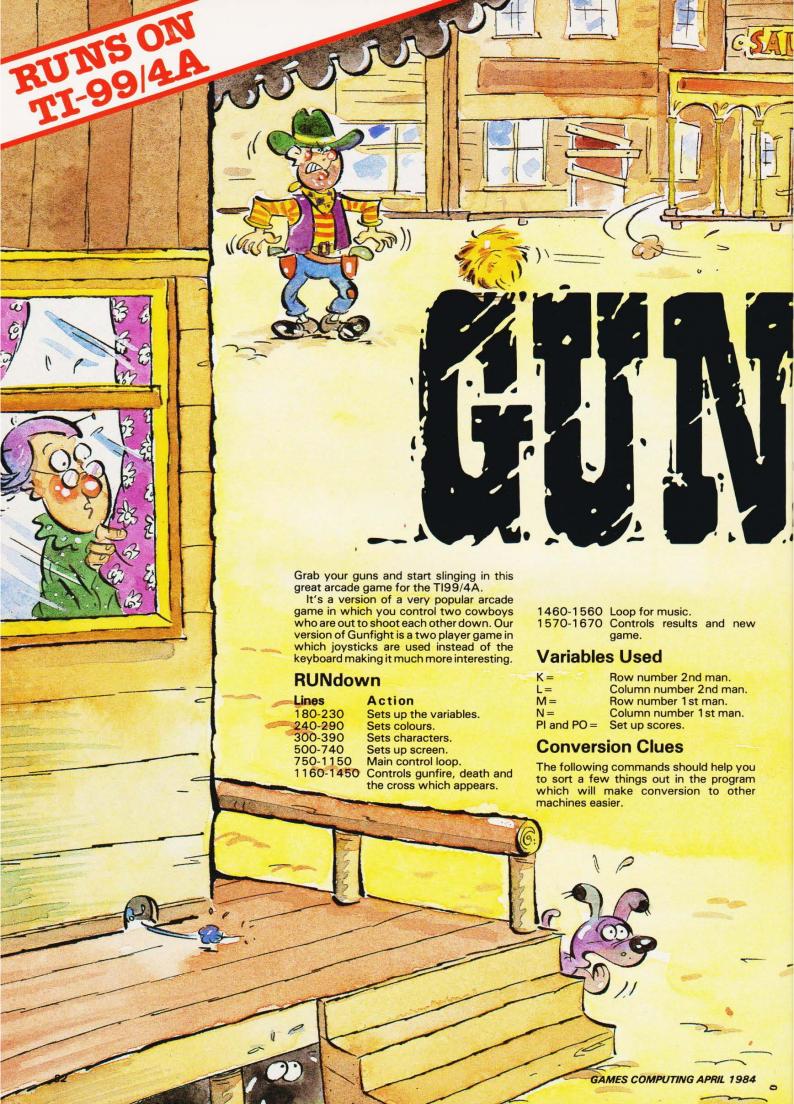


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	JOYSTICK(S)	17.95	
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```
100
    REM
            by B.W.DAVIS
    RANDOMIZE
110
120
    CALL CLEAR
           "GUNFIGHT" : "CONTROL THE MEN UP OR DOWN" : "WITH YOUR JOYSTICKS AND" : "SH
130
    PRINT
DOT
    WITH THE FIRE BUTTONS."
140 PRINT "YOU HAVE SIX SHOTS EACH": "BEFORE YOU CAN RELOAD": "BY PRESSING FIRE AG
AIN.": "PLAY WITH ALPHA LOCK UP."
150 PRINT "YOU CAN AVOID BEING HIT BY ": "HIDING BEHIND A CACTUS BUT": "DO NOT STA
  THERE FOR LONG.
160 PRINT "YOUR SCORE IS DISPLAYED AT": "THE BOTTOM OF THE SCREEN. ": "THE FIRST ON
E TO GET SIX IS THE WINNER." ::
170
    INPUT "PRESS ENTER TO START" : E$
180
    K=5
190
    L=28
    M=18
200
210 N=4
220
    PI=48
    P0≈48
230
240
    CALL CLEAR
250
    CALL SCREEN(2)
    CALL
260
         COLOR(14,15,1)
270
    CALL
          COLOR(15,13,1)
280
    CALL
         COLOR(16,15,1)
         COLOR(3,8,1)
CHAR(144,"1038383838383838)
290
    CALL
    CALL
300
         CHAR(145,"383838383838383818")
    CRLL
310
          CHAR(146, "180FDFDFDFDFDFFF")
320
    CALL
330
    CALL
          CHAR(147, "FFFE70301010103E")
    CALL
340
          CHAR(152, "003838FE38303810")
         CHAR( 153, "387C7C7C7C7C7C7C7C" )
350
    CALL
    CALL
         CHAR(154, "7070383838383838")
360
          CHAR( 155, "38383838383E" )
370
    CALL
          CHAR(156, "307F7F7070707070")
380
    CALL
390
    CALL
         CHAR(157) "00FCE0"
         CHAR(136, "001C1C7F1C3C1C08")
400
    CALL
         CHAR(137,"103E3E3E3E3E3E3E3)
    CALL
410
         CHAR(138, "SESE101010101010")
420
    CALL
          CHAR(139) "101010101070")
430
    CALL
449
    CALL
         CHAR(140, "10FEFE3E3E3E3E3E")
450
    CALL
         CHRR(141, "003F07")
    CALL
         CHAR(142,"001818FFFF181818")
460
         CHAR(143,"181818181818")
479
    CALL
480
    CALL CHAR(158, "0080")
490
    CALL CHAR(159, "00103870707070FE")
500
    FOR I=1 TO 4
510
    READ HOJ
    CALL HCHAR(H, J, 144)
520
530
    CALL HCHAR(H+1,J,145)
540
    CALL HCHAR(H+2,J,146)
550
    CALL HCHAR(H+3,J,147)
    NEXT
560
         I
570
    B=2
580
    D=23
590
    CALL HCHAR(1,3,159,6)
600
    CALL HCHAR(1,24,159,6)
         HCHAR(24)N,PI)
    CALL
610
620
    CALL HCHAR(M-1,N,32)
630
    CALL HCHAR(M,N,152)
640
    CALL HCHAR(M+1,N,153)
650
    CALL HCHAR(M+2,N,154)
    CALL
         HCHAR(M+3,N,155)
669
670
    CALL
         HCHAR(M+4,N,32)
680
    CALL HCHAR(24,L,PO)
690
         HCHAR(K-1,L,32)
    CALL
700
    CALL HCHAR(K/L/136)
         HCHAR(K+1,L,137)
710
    CALL
720
    CALL
         HCHAR(K+2,L,138)
730
    CALL HCHAR(K+3,L,139)
740
    CALL HCHAR(K+4,L,32)
750
    CALL JOYST(1,X,Y)
    CALL
         JOYST(2,V,W)
760
770
    CALL
         KEY(1, A, S)
780
    CALL KEY(2,C,S)
790
    IF C=18 THEN 990
    IF 8=18 THEN 900
800
    IF (Y<>4)+(M=4)THEN 830
810
820
    M=M-1
830
    IF (Y<>-4)+(M=19)THEN 850
848
    M=M+1
850
    IF (WK>4)+(K=4)THEN 870
    K=K-1
860
```







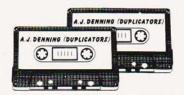
870

IF (W<>-4)+(K=19)THEN 890

880 K=K+1 890 GOTO 620 900 IF B=8 THEN 1230 910 CALL HCHAR(M+1,N,156) 920 CALL HCHAR(M+1,N+1,157) 930 CALL SOUND(50,110,0,-6,0) 940 B=B+1 950 CALL HCHAR(1,8,32) 960 CALL HCHAR(M+1,N+1,32) 970 CALL HCHAR(M+1,N,153) 980 GOTO 1060 990 IF D=29 THEN 800 1000 CALL HCHAR(K+1/L/140) 1010 CALL HCHAR(K+1,L-1,141) 1020 CALL SOUND(50,110,0,-6,0) 1030 D=D+1 1040 CALL HCHAR(1,0,32) 1050 CALL HCHAR(K+1,L-1,32) 1060 CALL HCHAR(K+1/L/137) 1070 GOTO 1160 1080 FOR I=N+2 TO 30 1090 CALL GCHAR(M+1,1,E) 1100 IF (E>135)\*(E(140)THEN 1240 1110 CALL HCHAR(M+1,1,158) 1120 CALL HCHAR(M+1,1,32) 1130 IF (E>143)\*(E<148)THEN 750 1140 NEXT I 1150 GOTO 750 1160 FOR I≈L-2 TO 2 STEP -1 1170 CALL GCHAR(K+1,I,F) 1180 IF (F>151)\*(F<158)THEN 1350 1190 CALL HCHAR(K+1,1,158) CALL HCHAR(K+1,I,32) 1200 IF (F>143)\*(F<148)THEN 750 1218 1220 NEXT I IF (B=8)\*(D=29)THEN 570 ELSE 610 1230 1240 CALL VCHAR(K,L,32,2) CALL HCHAR(K+2,L,142) 1250 1260 CALL HCHAR(K+3,L,143) 1270 PI=PI+1 IF PI=54 THEN 1570 1289 Y=5 1290 1300 X=19 1310 K≈INT((Y-X+1)\*RND)+X 1320 GOSUB 1460 1330 CALL VCHAR(2,28,32,22 1340 GOTO 610 CALL VCHAR(M, N, 32, 2) 1350 1360 CALL HCHAR(M+2,N,142) 1970 CALL HCHAR(M+3,N,143) 1380 PO=PO+1 1390 IF PO=54 THEN 1600 1400 Y=5 1410 X=19 1420 M=INT((Y-X+1)\*RND)+X 1430 GOSUB 1460 1440 CALL VCHAR(2,4,32,22) 1450 GOTO 610 1460 FOR X=1 TO 11 1470 READ P.Q.R.S 1480 CALL SOUND(P/R/2/S/2) 1490 FOR DELAY≈1 TO 0 MEXT DELAY 1500 1510 NEXT X 1520 RESTORE 1550 1530 RETURN 1540 DATA 10,18,5,9,14,12,19,21 1550 DATA 700,200,156,160,650,160,156,160,400,100,156,160,700,250,**156,160,500,10** 0,180,185,400,100,170,175 1560 DATA 400,100,170,175,400,100,156,160,650,100,156,160,400,100,147,151,900,10 0,156,160 1570 CALL CLEAR 1500 PRINT "GOOD SHOOTING": "FIRST COWBOY WON "; CHR#(PI); "\_"; CHR#(PO) 1590 GOTO 1630 1600 CALL CLEAR 1610 PRINT "GOOD SHOOTING": "SECOND COWBOY WON "/CHR#(PO>)"\_"/CHR#(PI> 1620 GOTO 1630 1630 CALL SCREEN(4) 1640 CALL COLOR(3,2,1) INPUT "PRESS ENTER FOR ANOTHER GAME" : E\$ 1650 RESTORE 1660 IF E\$="" THEN 180 1670



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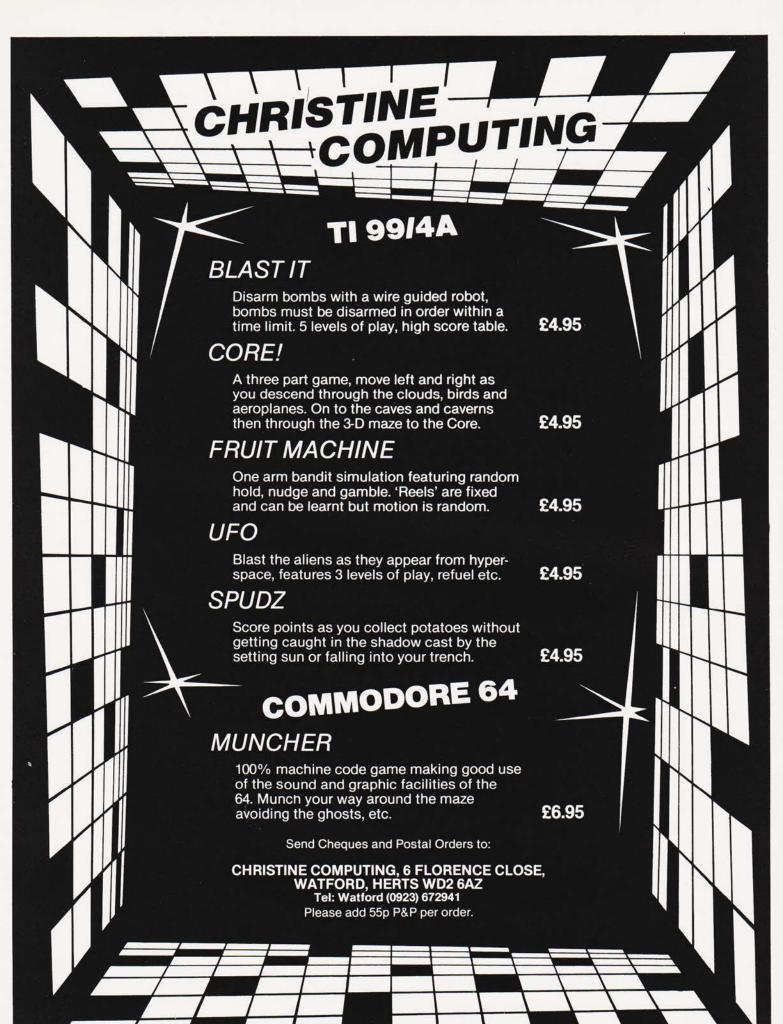
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CC Strategy Games.
They're no pushover.



# MUD is not a dirty substance found in your garden. It is the acronym for Multi-User Dungeon, perhaps the greatest adventure game yet written. In the usual adventure vein you are

Simon Rockman's file this month focuses on a fascinating multi-user adventure game in which players can 'talk' to each other during play.

Simon plays the game himself and gives you both an insight into MUD and some game-play tips.

In the usual adventure vein you are transported to a fantasy land with the keyboard becoming your hands and feet and the screen your six senses. The computer needed to run MUD is a DEC 10, (a business Mini-computer), however, you can log into a remote DEC using a modem. I don't expect many *Games Computing* readers have a £1½m mainframe and besides, it isn't much fun to play by yourself because MUD is multi user, which means that many people can play it by logging in either at the computer's site or by using a computer and a modem from anywhere in the world to play.

In the adventure you can meet other people's projections into this make-believe world. I have joined the game and so, for instance, if my character, Thor, wishes to open the portcullis but is not strong enough he can ask Zaal to help him. I have never met the person who plays Zaal but have had the odd chat with him in a CB sort of way. With another player's help I should be able to get through the portcullis.





## MUD MUD GLORIOUS MUD

MUD is huge, so huge that it uses more memory than Essex University, where it resides, and it can only be run after midnight and at weekends when the demands on the computer are reduced. The adventure has hundreds of locations and objects with an extensive vocabulary. In this fantasy world treasure lies in many nooks and crannies, but beware - all that glisters is not gold - even the golden eagles egg traps you. This sticks to your hand so that you can't drop it. If you try to eat the egg you are informed that this is a golden egg, not a hard boiled one! The only way out is to give it to someone who must then pass it on and ad infinitum, or quit. Virtually every clever comment seems to have a reply. If you try the classic XYZZY command you are told that it is a very adventurous thing to say and that some people will try anything!

A sleek black cat may wander into the room, again beware there are two black cats in MUD, one quite tame and quite easy to kill, the other a ferocious feline who will probably destroy you in the attempt. Remember a cat has nine lives so you have to type 'kill cat' ten times before you are informed 'alright, alright, it's dead'. One use for a dead cat is to drop it in the swamp and claim some more points. You can save some time and trouble by just being curious . . . curiosity killed the cat.

MUD is so full of these little touches

that you can never get bored. The ultimate treasure is the crown, worth 4500 points. This is hidden in the ever shifting swamp, a special maze because anything dropped sinks and so you can't map it out by leaving objects and seeing if you end up going in circles. You turn treasure into points by dropping it into the swamp. This means that no one else can pick it up and get it unless the game is reset and the treasure restored to it's proper place.

You can carry only a few objects at a time so you may have to choose between a treasure and a utensil such as a sword and hope that no one attacks you on the way back to the swamp or picks up the sword while you are gone. MUD has a type of character called a mobile. These are monsters controlled by the program such as the Dragon and the Vampire. To kill these a band of adventurers need to hunt down the creature hurling a combined strength to vanquish it.

## WITCHES AND WIZARDS

When you quit your character is saved for later use so that you can build up experience. You go through many levels such as Warrior, Hero, Superhero, Enchanter and finally up to wizard (or witch, there are

female equivalents for most of the levels). The wizard is a very powerful character, he has the 'WIZ MODE' command which allows him to use magic, to move and pick up people and things, to cause or stop fighting, to force people to do things and generally take control. It is not unknown for a wizard to remove the cliff from the beach and put it down at the exit so that anyone entering the game falls to their death.

Wizards do have a code of conduct and are supposed to reward people for putting up with their pranks. Wizards are unlikely, to mess with hand to hand combat, but for mortals this is a good source of points and provides interaction with the other players. Whole groups of people can join the fray all from the safety of their own terminal.

MUD is free to play, if you do have access to a DEC 10 it can be obtained from Richard Bartle at Essex University. Otherwise you need a computer, a modem and a telephone. You can then link up and log in. Details on the Essex end should be available from:

THE COMPUTER SOCIETY
DEPARTMENT OF COMPUTER SCIENCE
UNIVERSITY OF ESSEX
COLCHESTER
CO4 3SQ.

## Answers for March

#### 3. WHO WANTS TO BE A DULL

PLAY
PLOY
PLOT
SLOT
SOOT
SORT
WORT
WORK

#### 4. TROUBLED WATERS

If you turn your calculator upside down and read the numbers they should spell out the word 'ShELL OIL .'

#### COMPUTE LOG.

Letters = rows across Numbers = columns down

DRAGON

NASCOM

TEXAS

**GENIE** 

D15 JUPITER

C16 ORIC

**NEW BRAIN** 

L7

17

B15

G8

F8

#### **COMPUTER LOG - SOLUTION**

G12 ACORN B9 ZENITH

K9	SPECTRUM	E13	VIC
G14	ATARI	B3	ZX EIGHTY
			ONE
K9	SHARP	H11	PET
K9	SINCLAIR	C5	MODELA
G13	TANDY	H5	ACE
G14	ATOM	E6	ERNIE
G14	APPLE	C2	MR. BAB-
			BAGE
D13	IBM	C8	HAL
D16	COM-		
	MODORE	M2	PEACH TREE
D12	BBC	M1	APRICOT
18	DAI	15	WANG
114	LVNX	Δ12	SANYO

K9

18

**A8** 

C9

L16

SORD

SONY

VOX

**MERLIN** 

ICL **ELECTRON** 

AQUARIUS E10 PRIME

#### 6. YOUR NUMBER'S UP

1, 18, 4, 13, <u>6</u> They are the numbers clockwise around a dartboard.

#### 7. JUMBLE SALE

SAVED IN SCRAPE (Space Invaders) TIM GUN GOES CAMP (Games Com-

CRIMINAL SUSPECT 'R' (Sinclair Spectrum)

MOOD CROME (Commodore)

#### 8. FERRY, FERRY INTERSETING

Bogus can transport all the items across the river. First he takes across the chicken. He returns alone, collects the fox and goes back to the chicken on the far side. He puts the fox ashore, and to prevent it being eaten, takes the chicken back to the original side with him. He puts the chicken back on the bank and rows across with the corn. Sure that the fox will not eat the corn, Bogus returns, collects the chicken and then rows back to join the fox and corn. Simple? Bogus is still sitting on the wrong side of the River

Readers with eagle eyes will have spotted a few discrepancies in the last couple of issues as far as the Puzzle Page goes. For instance in our March edition there was a No.9 entitled Falkovia Rules — which was, in fact, an answer to a previous issue. We have no excuse, but can only apologise to you, and Lou and Les Falk.

#### 9. CROSS NUMBERS

¹F	0	U	R	<sup>2</sup> T	E	³E	N	⁴Н	U	N	D	R	E	D
1				0		٧		0		U				0
V		F	L	U	T	E		<sup>8</sup> L	Y	R	1	C		Z
E		0		C		N		E		S		0		E
18	0	U	G	H	T		'R		'R	E	T	U	R	N
		R				1 <del>2</del>	0	¹D				R		
15T	E	N	D	1	V	1	D	E	D	В	Y	S	1	X
		0				E		V	\$ 1 K			E		
'S	Q	U	A	R	E	R	Ö	0	T	0	F	T	E	N
		G				18	1	N		W.		U		
18	C	H	0	20	L		L		25	È	X	T	E	27
		T		R		<sup>24</sup> A		25				0		H
X		Ŝ	C	1	0	N		Ř	0	G	E	R		R
E				0		T		U		H				E
25	E	V	E	N	T		M	E	S	T	A	В	L	E



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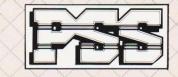
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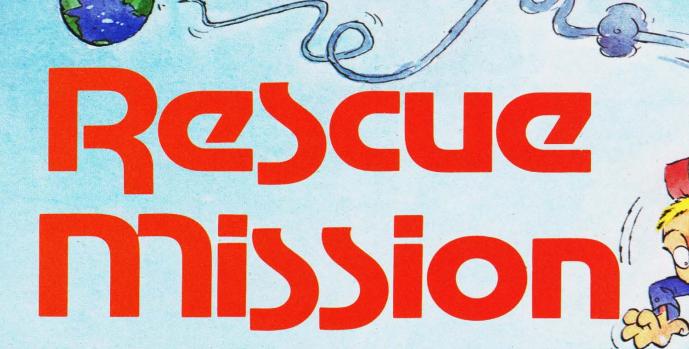


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You are in an airship that has a hole in it and is losing height rapidly. If you don't climb soon you will crash into the chimneys, but wait, what happens if we throw out all that Government gold we are carrying?

And so the scene is set. Your airship must drop its bags of gold out to gain height, but as gold is fairly expensive you must drop it into the very chimneys that you are in danger of crashing into so that they may be recovered!

When a bag of gold drops into a chimney you gain height. Miss the target and you will continue your decent.

#### **RUNdown**

10-90 100-380 Instructions 390-490 Define CHARacters and COLORs 500-680 Set up screen 690-780 Draw chimneys 790-860 Plot chimney pots 870-1000 Check for drop, crash, and movement of airship 1010-1170 Crash routine 1180-1450 Drop routine 1180-1540 Movement of airship after suitcases have dropped 1550-1590 PRINT at routine 1600-1620 DATA for defining CHARacters 1630-1790 END routine 1800-1930 Play again
390-490 Define CHARacters and COLORs 500-680 Set up screen 690-780 Draw chimneys 790-860 Plot chimney pots 870-1000 Check for drop, crash, and movement of airship 1010-1170 Crash routine 1180-1450 Drop routine 1460-1540 Movement of airship after suitcases have dropped 1550-1590 PRINT at routine 1600-1620 DATA for defining CHARacters 1630-1790 END routine
390-490 Define CHARacters and COLORs 500-680 Set up screen 690-780 Draw chimneys 790-860 Plot chimney pots 870-1000 Check for drop, crash, and movement of airship 1010-1170 Crash routine 1180-1450 Drop routine 1460-1540 Movement of airship after suitcases have dropped 1550-1590 PRINT at routine 1600-1620 DATA for defining CHARacters 1630-1790 END routine
COLORs 500-680 Set up screen 690-780 Draw chimneys 790-860 Plot chimney pots 870-1000 Check for drop, crash, and movement of airship 1010-1170 Crash routine 1180-1450 Drop routine 1460-1540 Movement of airship after suitcases have dropped 1550-1590 PRINT at routine 1600-1620 DATA for defining CHARacters 1630-1790 END routine
500-680 Set up screen 690-780 Draw chimneys 790-860 Plot chimney pots 870-1000 Check for drop, crash, and movement of airship 1010-1170 Crash routine 1180-1450 Drop routine 1460-1540 Movement of airship after suitcases have dropped 1550-1590 PRINT at routine 1600-1620 DATA for defining CHARacters 1630-1790 END routine
690-780 Draw chimneys 790-860 Plot chimney pots 870-1000 Check for drop, crash, and movement of airship 1010-1170 Crash routine 1180-1450 Drop routine 1460-1540 Movement of airship after suitcases have dropped 1550-1590 PRINT at routine 1600-1620 DATA for defining CHARacters 1630-1790 END routine
790-860 Plot chimney pots 870-1000 Check for drop, crash, and movement of airship 1010-1170 Crash routine 1180-1450 Drop routine 1460-1540 Movement of airship after suitcases have dropped 1550-1590 PRINT at routine 1600-1620 DATA for defining CHARacters 1630-1790 END routine
870-1000 Check for drop, crash, and movement of airship 1010-1170 Crash routine 1180-1450 Drop routine 1460-1540 Movement of airship after suitcases have dropped 1550-1590 PRINT at routine 1600-1620 DATA for defining CHARacters 1630-1790 END routine
movement of airship 1010-1170 Crash routine 1180-1450 Drop routine 1460-1540 Movement of airship after suitcases have dropped 1550-1590 PRINT at routine 1600-1620 DATA for defining CHARacters 1630-1790 END routine
1010-1170 Crash routine 1180-1450 Drop routine 1460-1540 Movement of airship after suitcases have dropped 1550-1590 PRINT at routine 1600-1620 DATA for defining CHARacters 1630-1790 END routine
1180-1450 Drop routine 1460-1540 Movement of airship after suitcases have dropped 1550-1590 PRINT at routine 1600-1620 DATA for defining CHARacters 1630-1790 END routine
1460-1540 Movement of airship after suitcases have dropped 1550-1590 PRINT at routine 1600-1620 DATA for defining CHARacters 1630-1790 END routine
suitcases have dropped 1550-1590 PRINT at routine 1600-1620 DATA for defining CHARacters 1630-1790 END routine
1550-1590 PRINT at routine 1600-1620 DATA for defining CHARacters 1630-1790 END routine
1600-1620 DATA for defining CHARacters 1630-1790 END routine
CHARacters 1630-1790 END routine
CHARacters 1630-1790 END routine
P = 1680;

GAMES COMPUTING APRIL 1984





GAMES COMPUTING APRIL 1984

#### Variables Used

SCORE, LIVES Self explanatory Highest score HISC J,I,DEL,DELAY,Z,H FOR/NEXT loop

variables

R,D Height of chimneys RO,CO Coordinates of suitcases

ROW,COL M\$,F,G coordinates of airship PRINT at loops INPUT loops Q\$,A\$ Read KEYboard variable

**GET** Used in CALL **GCHAR** 

#### **Conversion Clues**

If you are going to convert this program for another computer it will be difficult, but remember that the TI-99/4A has a 24 by 32 screen and uses user-defined characters. Here are the commands used and their explanations.

CALL CHAR(ASCII code number, hexadecimal string). Used in defining the characters where the ASCII code is the character to be re-defined, and the hexadecimal string is the bit pattern of the new character

CALL HCHAR(row number, column number), ASCII code, number of repetitions. This will draw a horizontal line composed of the specified character.

CALL VCHAR(same as HCHAR). This is

the same as HCHAR but will draw a line vertically

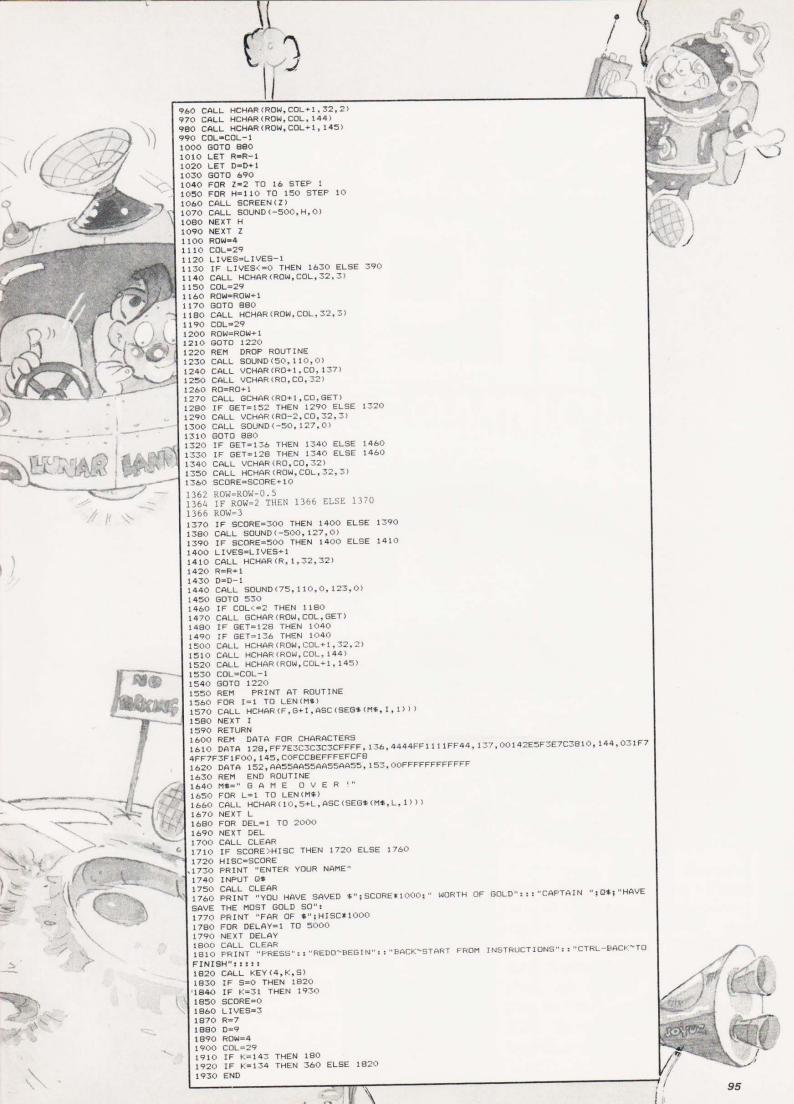
CALL GCHAR(row number, column number, numeric variable). Reads the character in the specified screen location into the variable specified.

CALL CLEAR. Clears the screen. CALL SCREEN(colour code). Changes the screen colour to that specified.

CALL COLOR(character set, foreground colour, background colour). Changes the colour of characters on screen.
CALL SOUND(duration, frequency,

volume). Activates the sound generator. CALL KEY(key unit, numeric variable, status). Equivalent to INKEY or GET.

10 REM AIR-SHIP RESCUE 20 REM INITIALISE 30 SCORE=0 40 HISC=0 50 LIVES=3 60 R=7 70 D=9 80 ROW=4 90 COL=29 100 CALL CLEAR 110 Ms="DO YOU WANT INSTRUCTION? (Y/N)" 120 F=11 130 G=1 140 GOSUB 1550 150 INPUT A\$
160 IF A\$="Y" THEN 180
170 IF A\$="N" THEN 390 ELSE 100 VERNMENT'S":
230 PRINT "GOLD WORTH \$10,000 EACH AS": "YOU ARE CROSSING THE NORTH": "SEA, YOU REA
LIZE THERE IS A":
240 PRINT "HUGE HOLE AT THE SIDE OF THE": "SHIP.IT IS LOSING A LOT OF": "HEIGHT AN
D IS GOING TO CRASH":
250 PRINT "AGAINST THE CHIMNEYS BELOW.": "THE ONLY THING YOU CAN DO": "NOW IS TO T 250 PRINT "AGAINST THE CHIMNEYS BELOW.": "THE ONLY THING YOU CAN DO": "NOW IS TO THROW THIGS OUT":::
240 PRINT "PRESS ANY KEY TO CONTINUE":
270 CALL KEY(O,K,S)
280 IF S=0 THEN 270
290 CALL CLEAR
300 PRINT "YOU HAD THREW ALMOST EVERY": "-THING EXCEPT THE GOLD, BUT": "THE SHIP IS 300 PRINT "YOU HAD THREW ALMOST EVERY": "-THING EXCEPT THE GOLD, BUT": "THE SHIP IS STILL LOSING ":
310 PRINT "HEIGHT FAST, YOU'VE TO THROW": "THE GOLD TOO. ":: "YOUR TASK IS TO THROW THE ": "SUITCASES INSIDE THE CHIMNEY":
320 PRINT "SO THE NAVY CAN COLLECT THEM": "AFTER. IF THE SUITCASES LAND": "IN THE SEA NO ONE IS EVER"
330 PRINT "GDING TO FIND THEM. ":: "USE THE SPACE-BAR TO RELEASE": "THE SUITCASES."
"NOTE: THE SHIP WILL ONLY GAIN":
340 PRINT "ANY HIEGHT IF THE SUITCASES": "LAND IN THE CHIMNEYS. YOU": "GET AN EXTRA LIFE WHEN YOU":
350 PRINT "RACH 300 % 500 POINTS. ":::
360 PRINT " PRESS ANY KEY TO BEGIN"
370 CALL KEY(O,K,S)
380 IF S=0 THEN 370
390 CALL CLEAR
400 REM DEF CHARACTERS & COLOURS
410 RESTORE 1610
420 FOR I=1 TO 7
430 READ N, N\$
440 CALL CHAR (N, N\$)
450 NEXT I 460 CALL COLOR(13, 14, 1) 470 CALL COLOR(14,3,1) 480 CALL COLOR(15,9,1) 490 CALL COLOR(16,6,1) 500 CALL SCREEN(16) 510 CALL HCHAR(15,1,152,32) 520 CALL HCHAR(16,1,153,256) 530 M\$="SCORE "%STR\$(SCORE) 540 F=1 550 G=21 560 GOSUB 1550 570 M\$="HI~SCORE "&STR\$(HISC) 580 F=19 590 G=10 600 GOSUB 1550 610 M\$="LIVES "&STR\$(LIVES) 620 F=1 630 G=2 630 G=2
640 GOSUB 1550
650 FOR J=2 TO (LIVES-1)\*2 STEP 2
660 CALL HCHAR(2,J,144)
670 CALL HCHAR(2,J+1,145)
680 NEXT J
690 REM DRAW CHIMNEYS
700 FOR J=3 TO 28 STEP 3
710 IF R>=10 THEN 1010 710 IF R)=10 THEN 1010
720 CALL VCHAR(R,J,136,D)
730 CALL VCHAR(R,G,32,2)
740 CALL VCHAR(R,6,32,2)
750 CALL VCHAR(R,12,32)
760 CALL VCHAR(R,18,32,3)
770 CALL VCHAR(R,24,32,4)
780 NEXT J
790 REM PLOT CHIMNEY POTS
800 FOR J=3 TO 28 STEP 6
810 CALL HCHAR(R,2,4,128)
820 CALL HCHAR(R,2,4,128)
830 CALL HCHAR(R+1,12,128)
840 CALL HCHAR(R+1,12,128)
840 CALL HCHAR(R+3,18,128)
850 CALL HCHAR(R+4,24,128)
860 NEXT J
870 REM CHECK FOR DROP OR CRASH
880 CALL KEY(O,K,S)
890 RO=ROW 890 RO=ROW 900 CO=COL 910 IF K=32 THEN 1220 920 IF COL(=2 THEN 1140 930 CALL GCHAR(ROW,COL,GET) 940 IF GET=128 THEN 1040 950 IF GET=136 THEN 1040



# ANSWERS

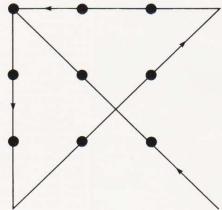
#### 1 SQUARE DANCE

10

I'm not quite sure how to illustrate this answer but this will have to do.



#### 5 SQUARE PEGS

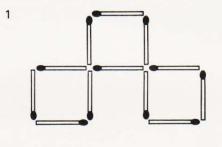


#### 2 BOX NUMBERS

The answer is 1260

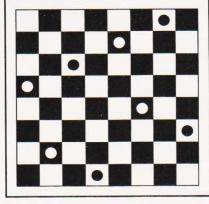
A	C	E	D
1	9	8	4
J		F	G
5		2	0
A	B		C
1	6		9
C 9	3 J	H 7	B 6

#### **6 SQUARE RIGGED**





#### 3 ALL SQUARE

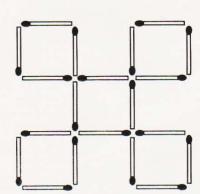


# 3

#### **4 MAGIC SQUARE**

There are several answers to this - shown below.

1	15	14	4
12	6	7	9
8	10	11	5
13	3	2	16
1	14	15	4
8	11	10	5
12	7	6	9
13	2	3	16



#### **7 SQUARE MEALS**

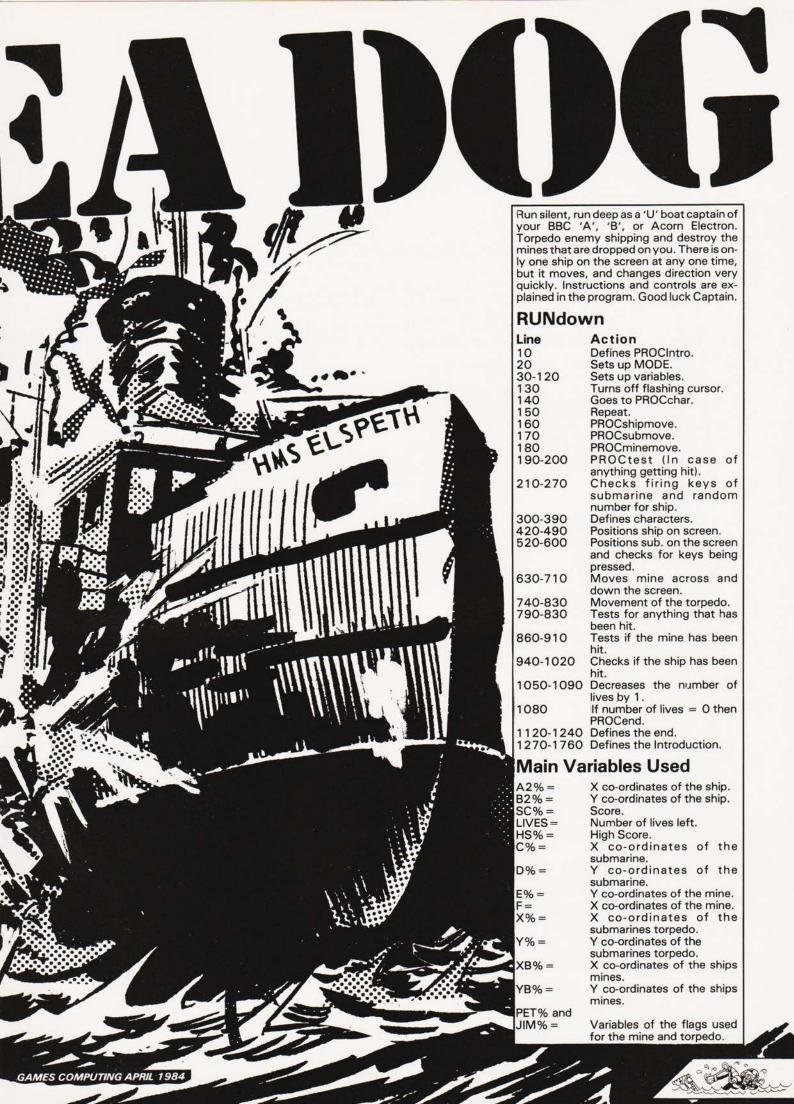
He started at El Muto (the tutor). He should have started at Facotti (the bodyguard).











10PROCIntro 20MODE2 30A2%=16:B2%=5 40SC%=0 50LIVES=3 60HS%=100 70C%=10: D%=25 80E%=15:F=0 90X%=10:Y%=10 100XBX=10:YBX=10 110PET%=0 120JIM%=0 13070023;8202;0;0;0; 140PROCchar 150REPEAT 160PROCshiPmove 170PROCsubmove 180PROCminemove 190PROCtest 200PROCtestb 200FRUCTESCO 210IFINKEY(-1) AND PET%=0 AND C%>4 THEN X%=C%:Y%=D%:PET%=1 220IFRND(10)=1 AND JIMX=0 AND B2%>4 THEN XB%=A2%:YB%=B2%:JIM%=1 220IFRND(10)=1 AND JIM%=0 AND B2%>4 THEN XB%=A2%:YB%=B2%:JIM%=1
230IFPET%=1 THEN PROCEDUL
240IFJIM%=1 THEN PRINTTAB(XB%,YB%);" ":YB%=YB%+2:PRINTTAB(XB%,YB%);CHR\$233
250IF Y%=1 THEN PET%=0:PRINTTAB(X%,Y%);" "
250IF YB%>28THEN JIM%=0:PRINTTAB(XB%,YB%);" " 300DEF PROCCHAP 300DEF PROCchar 310VDU23,225,0,0,1,1,255,127,63,31 320VDU23,226,56,56,255,255,255,255,255,255 330VDU23,227,0,0,128,128,255,254,252,248 340VDU23,228,1,1,15,127,255,255,127,63 350VDU23,229,64,64,240,254,255,255,254,252 360VDU23,230,129,66,60,60,60,60,66,129 370VDU23,232,24,60,60,60,60,60,126,126 370VDU23,232,24,60,60,60,60,60,66,129 380VDU23,233,126,70,24,24,24,24,24,24 390ENDPROC 400: 419: 420DEF PROCShipmove 430D\$=CHR\$225+CHR\$226+CHR\$227 440COLOUR 2 450PRINTTAB(A2%,B2%);" ";D\$;" " 460A2%=A2%+RND(3)-2 470IFA2%>16 THEN PRINTTAB(A2%,B2%);" 4801FA2%=1 THEN PRINTTAB(A2%,B2%);" " A2%=13 490ENDPROC ":82%=28 500: 510: 520DEF PROCsubmove 530B\$=CHR\$228+CHR\$229 540COLOUR ":C%=1 ":C%=17 590ENVELOPE1, 2, 64, -64, 128, 1, 1, 5, 127, 127, 0, -2, 126, 126 SOUND1, 1, -2, 1 620: 630DEF PROCminemove 640E\$=CHR\$230 650COLOUR 14 660PRINTTAB(F,E%);" ";E\$ 670F=F+.7 680FF F>17 THEN PRINTTAB(F,E%);" ":F=0:E%=E%+1 690FORL%=1 TO300:NEXT 7001F EX=20 THEN PRINTTAB(F,EX); " ":EX=10 710ENDPROC 720: 730: 740DEF PROCESULL 750PRINTTAB(XX,YX);" " 760YX=YX-1 770PRINTTAB(X%,Y%);CHR\$232 780ENDPROC .780ENDPROC 790DEF PROCTEST 800IFXX=INT(F) AND YX=EX THEN PROCHITM 810IFXX>AX-1 AND XX(AX+4 AND YX=5 THEN PROCHITS 820IFXX>A2X-1 AND XX(A2X+4 AND YX=5 THEN PROCHITS 850: 860DEF PROChitm 870PET%=0:PRINT TAB(X%,Y%)," " 100

4

```
890SC%=SC%+10
  900PRINTTAB(10,0); CHR$83+CHR$99+CHR$111+CHR$114+CHR$101+CHR$61; SC%
  910ENDPROC
  920:
  930
  940DEF PROChits
950PET%=0:PRINT TAB(A2%,B2%))"
  960Y%=2
  970SC%=SC%+5
  980PRINTTAB(10,0);CHR$83+CHR$99+CHR$111+CHR$114+CHR$101+CHR$61;SC%
  990ENDPROC
 1000DEF PROCtestb
 1010IFXB%>C% AND XB%<C%+3 AND YB%=D% THENPROCLIVE
 1020ENDPROC
 1030:
 1949:
 1050DEF PROClive
 1060LIVES=LIVES-1
 1070PRINTTAB(0,0); CHR$76+CHR$105+CHR$118+CHR$101+CHR$115+CHR$61; LIVES
 1080IFLIVES=0 THEN PROCend
1090ENDPROC
1100
1110
1120DEF PROCend
1130VDU22,7
1140IF SCXKHS% THEN GOTO1180 ELSE CLS
1150FORQ%=1 TO 2:PRINTTAB(5,Q%);CHR$141;"Congratulations"
 1160NEXT
1170PRINT'"You have reached today's highest score."
 1180FORQ%=10 TO 11
1190PRINTTAB(10,0%); CHR$141; "ANOTHER GAME ?"
1200NEXT
1210A$=GET$
1220IF A$="Y" THEN GOTO160
1230IF A$="N" THEN END
1240G0T01210
1250:
1260:
1270DEF PROCIntro
1280CLS
1290FOR Q%=8 TO 9
1300PRINTTAB(8,0%); CHR$141; "Sea-Dog"
1310NEXT
1320FOR Q%=11 TO 12
1330PRINTTAB(10,Q%);CHR$141;"Designed by"
1340NEXT
1350FOR 0%=14 TO 15
1360PRINTTAB(12,0%);CHR$141;"Peter Mitchell."
1370NEXT
1380PRINT "PRESS ANY KEY"
1390A$=GET$
1400CLS FOR Q%=1 TO 100
1410NEXT
1420FOR Q%≈2 TO 3
1430PRINTTAB(10,Q%);CHR$141;"Sea-Do9"
1440NEXT
1440NEXT
1450PRINT''"This is a version of the PoPular"
1460PRINT"arcade game 'SEA-WOLF'."
1470PRINT'"You are the yellow submarine at the"
1480PRINT"bottom of the screen."
1490PRINT'"At the top of the screen is a german"
1500PRINT"mine-layer, who has dropped a mine"
1510PRINT"aboveyou."
1520PRINT"*PRESS ANY KEY"
 530A$=GET$
 540FOR 0%=1 TO 100
 550NEXT
1560CLS
 1570PRINT''"The mine is set to self-destruct at"
| 580PRINT"the bottom of the screen.so it is your"
1590PRINT"task to explode the mine or else it'
1600PRINT"will explode killing you !!"
1610PRINT'''"PRESS ANY KEY
1620A$=GET$
1630FOR 0%=1 TO 100
1640NEXT
1650CLS
1660FOR Q%= 2 TO 3
1670PRINTTAB(2,0%);CHR$141; "Controls "
1680NEXT
1690PRINT///"Left....Z"
1700PRINT/"Right...X"
1710PRINT/"Shift......FIRE"
1720PRINT/"/"PRESS ANY KEY TO START"
 730A$=GET$
1740FOR 0%= 1 TO 100
1750NEXT
1760ENDPROD
```

# AAR

# BATTLEZONE

Runs on: Atari VCS This is a fair attempt at the famous arcade Inis is a fair attempt at the famous arcade game, and taking the limitations of the VCS/Atari 2600 into account they have

All the features of the true arcade game of Battlezone are here, except that the controls are a bit different due to only having controls are a bit different due to only having controls are a bit different due to only having control stick. done very well. controls are a bit different due to only having one control stick. The game is based on you being the commander of a tank, trying you being the commanuer of a tank, trying to shoot up all the other tanks in the area to shoot up all the other tanks in the area that are out to get you. In addition these are that are out to get you. In addition these are other tanks to avoid, flying saucers, and other tanks to avoid, flying saucers, and other tanks to avoid, flying saucers, and other tanks to avoid hazards. The screen display is taken up are forward view from the turret. status inforforward view from the turret.

forward view from the turret, status infortorward view from the turret, status information, and a radar scope. The radar tells you where the enemy is and what your view of them is. The status line gives you the score and your remaining lives. The fortune score and your remaining lives. view or them is. The status line gives you the score and your remaining lives. The forward view is very good and makes the most of the VCS's limited graphics. The sound is impressive and realistic,

control is good and accurate. The whole control is good and accurate. The whole game is very well put together and should find a place on a lot of peoples shelves.





# Made by: Atari Price: £29.99 WOON PATROL

## MOON PATROL Runs on: Atari VCS

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Points are awarded for jumping craters, shooting the aforementioned bug eyed monsters, and for completing each section of the course.

The graphics are fairly uninspiring and leave little to be desired. On the whole the game is not up to Atari's usual high standards and doesn't really warrant the selling

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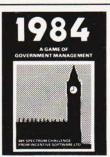
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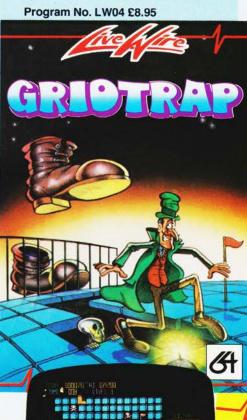
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