

MIRRORSOFT

64 prizes of Caesar the Cat toy and game

Software reviews for: Spectrum, BBC, Electron, Oric, Memotech, TI-99/4A

> VIC-20 Assault on Greenham Common

CBM 64 Two utilities

TI-99/4A Bombs away!

Plus:

news, your letters, U.S. Scene, charts





Marks for software

Marks and Spencer will have St Michael Software on the shelves in October.

It will be a mixture of new products and improved and repackaged titles from big software houses.

M&S senior selector Adrian Shire said that, as with many new lines, software would first be test marketed in a few city centre stores.

centre stores.

He said: "We haven't yet decided on the details, like exactly when and how we are going to present it."

Chris Maynard, from a computer publishing company, is handling the software on behalf of Continued on page 5

Rabbit for sale

Rabbit Software is up for sale, just 14 weeks after joint founder Alan Savage commited suicide.

Managing director Heather Lamont, 23, put the company into voluntary liquidation.

She said she and her staff had successfully conquered the problems caused by Mr Savage's death — orders and payments slowing down — but half the profits would go to Mr Savage's estate. Most of Mr Savage's debts had also been paid.

She said that, although she was sure Rabbit would continue in some form, for her it was no longer worth the struggle.

Miss Lamont and Mike Cooper, of agents Rosan and Continued on page 5

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COMING SOON

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24

PROGRAMS

TI-99/4A program Test the waters before you drop the sub												
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Commodoro E/	programs18
commodure o	programs
Dort 2 of our tone file	r program plus a m/c disassembler
Part 2 of our tape file	r program plus a m/c disassembler

VIC-20	prog	ram																						. 2	26
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HOME COMPUTING WEEKLY



ZX USER

Another free magazine for all Spectrum and ZX81 users. Here's what's in store for you:

- Software reviews latest releases for the Spectrum
- Track down golden nuggets with the miserly vicar
- Journey through hyperspace to search out new civilisations
- Get your maths in shape
- Test your memory and echo your computer's thoughts

For further details look at the contents on page three of your 16-page ZX User.

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PKD1: GRAPHICS CREATOR & SCREEN EDITOR

This highly praised utility program makes the creation of graphics and large screen layouts quick and simple. Commands include MIRROR, ROTATE, INVERT and many more. HCW No. 54 said "A Must For all TI Owners" Instructions 100% Ease of Use 95% Display 95% Value for money 95%. Price includes full instructions and 3 sets of demographics.

PKD2: MUSIC MAKER by David Martin TI-LUDO by Roy Hollingworth CHARSET ONE (BOLD)

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PKD3: RIVETS! by John Haworth CHARSET TWO (PICA)

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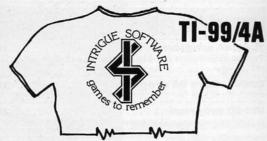
PKD4: ESCAPE FROM MICA! by B Dhooper

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This has to be the most addictive arcade game yet for your unex-TI-99/4A! You've been captured by the Count of Mica. To secure your release you have to collect valuable items from 3 fields. These fields are guarded by a terrifying monster who eats people like you for dinner!!! The Count has given you 4 Hyperspace pills - use them wisely. This is a very entertaining game with 4 skill levels, animated running, good graphics, sound and a High-Score table. Not to be missed!

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Rabbit

From front page

Company, said several offers had already come in. Rabbit may either be sold as a package with its duplication arm, Soft Copy, or the two may be divided.

Miss Lamont said most of the 28 staff now had other jobs apart from two who were unemployed and two still at the company's premises in Wealdstone, near Harrow.

And she had also been offered several jobs.

Miss Lamont said: "I think the shake-out among software companies has begun - I know a lot of software houses with problems. I'm absolutely sure a lot of them are going to go down?

Mr Crocker said his staff were at Rabbit's offices drawing up a list of assets. He expected the company to be sold by sealed tender.

Alan Savage, 36, formed Rabbit Software four years ago with Miss Lamont. He hung himself in a copse with his leather belt after a motorway accident.

Rabbit's liquidator is Stuart Edgar, 59 Myddelton Sq, London ECIR IXX

Marks

From front page

Marks and Spencer's books department.

He said software which had been previously published was being extensively improved and that the software house would

be credited on the packaging.
And he stressed: "We are not inviting software companies to submit titles to us?'

M&S boasts that 90 per cent of its products are British made. But Mr Maynard said that the software will be 100 per cent British.

Marks and Spencer, 40 Bowling Green Lane, London ECI ONE | Mid Glamorgan; Mr R J

Congrats winners

Here's the solution to our Doctor Soft wordsquare competition: Horizontal: Approach, Navigation, Wings, Rotate, Boeing, Flight Plan Altitude. Stewardess, Altitude, Stewardess, Altimeter. Vertical: Runway, Heathrow, Gatwick, Knots, Pilot, Simulator, Flaps, Take Off. Diagonal: British Airways.

These are our 105 winners of Doctor Soft's 747 flight simulator: Lucy Shanahan, Cambridge; Mark Spain, Aylesbury; Audrey Lewis, Ilford; Alan Kearney, Co Down; Mr S R Locke, Epsom; Mrs M Pear-son, Kilmarnock; Mr A Jones, Manchester; Richard Williamson, Norfolk; Natalie Read, Woodbridge; Janice Curry, Northumberland; Stuart Pierce, Lancashire; David Moxey, Aberdeen; R Battams, London SE3; Christopher Rugh, Sale; Mr C Crane, Stoke-on Trent; Mark Price, Weybridge; Trevor Floyd, Birmingham; Andrew Medcalf, N Humbs; Roy Tacchi, E Yorks; David Smith, Howbray; Mr P J Finkill, Tyne Wear; R Carroll, Wilts; William G Barket, Tyne & Wear; Tahir Saleem, Gwent; Sarah Parrish, Norfolk; Philip Coyne, Derby; Graham Rowley, Worksop; John Gordon, Glasgow; Andrew Gordon, Glasgow; Andrew Brooks, Hucknall; Kevin Finn, S Yorks; H T Pattison, Camborne; Mr Roger Penny, Kiddlington; Vicki Blundell, Hertfordshire; Neil Hoare, Norfolk; Mr J D Hewitt, Coventry; Brian McGuckian, Co Antrim; Michael Nelson, Warwickshire; Mrs A Griffiths, Wallington; Alison Beasley, David Somerset; Woodthorpe; Mr R A Worton, Sheffield; Mr Robert Ovens, Cheltenham; Mr E G Bayliss, Alum Rock; James G Scott, Aylesbury; Chris Gough, Stoke-on Trent; Mark Walshaw, S Yorks; M Booth, Huddersfield; Mr Brian Mawson, Berks; Mr K Harper, Sittingbourne; J Larkin, Leicestershire; Carl Duckett,

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Slashed prices

Audiogenic has announced price cuts on many of its best selling games for t Commodore 64 and VIC-20.

Motor Mania and Renaissance are down from £8.95 to £5.95, while Bonzo for the VIC-20 is also reduced to £5.95. Grandmaster's price has been halved from £17.95 to £8.95 for cassette and £12.95 for disc.

Martin Maynard, managing director, commented: "Because of the huge success of our software, Audiogenic is now able to pass benefits directly to the customer in the form of lower prices?"

He continued: "Our policy of bringing the cream of software to the marketplace has paid off and we expect to be announcing further price reductions in the near future?' Audiogenic, PO Box 88, Reading, Berks

Baptism of fire

Here's an amazing story of a | computer which doesn't give up. Rudi Westfold's house was hit by fire, damaging his VIC-20 among other valued possessions. It suffered exposure to severe heat, turning black and half-melting. Then it was swamped with water by the firemen, and still bears the tide-

The surprising thing is that

the computer lives on after its baptism of fire. It still works as well as the day he bought it.

Rudi lives on the Isle of Grain, in Kent and uses his computer in his business. He works from home for a Swiss pharmaceutical company, and he has now replaced his fire damaged computer with another VIC-20.

Cheetah Marketing Ltd. sincerely apologise for developing their latest computer peripheral. This will have the effect that your existing joystick is just about to be completely outdated.

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U.S. SCENE

High-tech Olympic Games

Are you ready for the high-tech Olympics? Well, the city of the angels (LA) certainly is. I don't know how many athletic records are going to be set here this summer, but as far as comptuer applications and communications are concerned, there will certainly be a few. For example, during the games, the total number of athletes, officials, journalists and staff will number about 50,000. These people will be using roughly \$50 million worth of computers, electronics and related equipment.

That is certainly a new record. Using that stuff, they will be able to send messages to each other via computer terminals as well as by more conventional means. They will be able to leave messages for other athletes recorded in one language and played back in the athlete's native tongue. Callers from overseas will be able to leave messages recorded in their native tongue which can be relayed over the regular (myblic) phone system.

be relayed over the regular (public) phone system.

IBM, Motorola, and American Telephone and Telegraph (AT&T) are the main movers and shakers of the communications and computer networks. And since some of the people using these devices will have no or almost no experience with them, everything, as one engineer put it, has got to simple or it will never be used at all.

AT&T is installing roughly 1700 computer terminals and about 300 printers throughout the Olympic site. These will be linked by 14 Western Electric 3B mainframe computers. Applications include electronic mail, bulletin board service, relaying the results of events, and telex. Tied in with that system is another communications system devised by Motorola. These involve the use of over 3000 wireless paging units.

It will work like this. If a message is sent via a computer terminal, the sender of the message will be able to page the competitor over the radio-controlled paging system and have the first 80 characters of the message appear on a one-line LCD display on the paging device itself. If the message turns out to be longer than 80 characters, the person receiving the message can go to the nearest computer terminal to receive the entire message.

IBM is also making a significant contribution. The firm is installing about 200 Display Writer word processors and an audio system which allows a caller to record a message for someone who can then access it with a pre-arranged code number. Instructions for the use of this system will be made available in any one of 10 different languages and the message can, of course, be left in any language. If athletes have been left messages on the system, they will see their names scrolling up the screen of various IBM Personal Computer VDUs scattered through the site.

High technology has had a direct impact on some of the events too, especially in the all-important aspect of determining finish results. In swimming events, a special system was rigged up using a touch pad made of quartz strips set on aluminium panels. The bi-metallic unit sets up an electric current which feeds a detection circuit whenever touched by a swimmer's hand. This system is unaffected by waves and water pressure (and of course human judgement).

In track and field events, an infrared beam will be used to mark the finish line and the clock for each competitor. Unlike simpler electronic finish lines, this one is impervious to interference caused by shadows, reflections, and of course camera strokes.

Bud Izen, Fairfield, California

COMPETITION

Win Caesar the Cat toy and game — from



This week we are offering you the chance to win a cuddly cat as well as the game based around him. The feline character in question is Caesar — a cute black and white furry creature with a mouse nestling cosily on his right

The game is Caesar the Cat from Andromeda, marketed by Mirrorsoft. And we're giving away 64 soft toys as well as 64 copies of the game — for 48K Spectrum, Commodore 64 or BBC B. You could be the proud owner of Caesar in toy and game version!

Caesar takes his duties seriously as household protector. The house is riddled with mice and Caesar searches out those who are scavenging in the larder.

It's a good job cats are renowned for being fleet of foot and agile, for the shelves on which the mice are picnicing are strewn with crockery. Although Caesar is a treasured member of the family, his owners are understandably furious when he breaks any plates.

Once Caesar corners a mouse, he removes it from the kitchen and renews his hunt for the ravenous rodents. But time is running out and can only be boosted when he catches more mice.

Graphics, animation and sound are outstanding. This is a challenging game of skill for all the family. Caesar the cuddly toy will soon become a popular addition to your family if you win. The mouse is fixed to his paw by Velcro and is detachable so that he can play with

f6.95 (for the Spectrum and BBC) and £8.95 (Commodore 64) and Caesar soft toys would cost £8.95. So each prize is worth £17 — with a total value of £1,000. So what are you waiting for?

The competition is familiar to all you HCW regular readers - just spot the differences between the two cartoons, mark them and write the number you found on the back of your envelope.
Good luck and happy hunting!

How to enter

Study the two cartoons — there are a number of differences between them. Circle the differences on

carton B and seal the cartoon and coupon in an envelope. Write clearly the number of differences you found on the back of the envelope.

Post your entry to Mirrorsoft Competition, Home Computing Weekly, No. 1, Golden Square, London W1R 3AB. Entries close at first post on Friday August 17,

You may enter as many times as clear writing is essential.

Address _

you wish, but each entry must be on an official coupon — not a copy – and sealed in a separate envelope.

Important: please follow carefully the guidelines on entering incomplete coupons and entries in envelopes with no numbers on the back cannot be considered. If you are a winner, the coupon will be used as a label to send your prize so

Mirrorsoft Competition

Entry Coupon

Name

post code .

Number of differences found

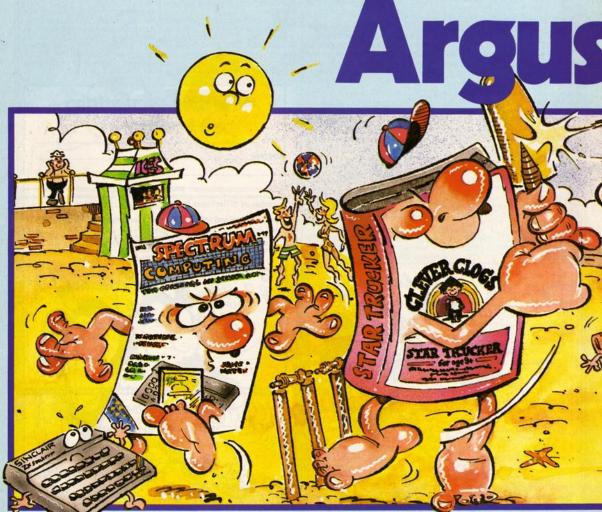
Computer owned (48K Spectrum, Commodore 64 or BBC C)

Complete clearly and fully — if you are a winner this will act as a label for your prize. Post to Mirrorsoft Competition, Home Computing Weekly, No.1 Golden Square, London WIR 3AB. Closing date: first post, Friday August 17, 1984. Don't forget to write the number of differences on the back of your envelope.





9 Out of 10 said they



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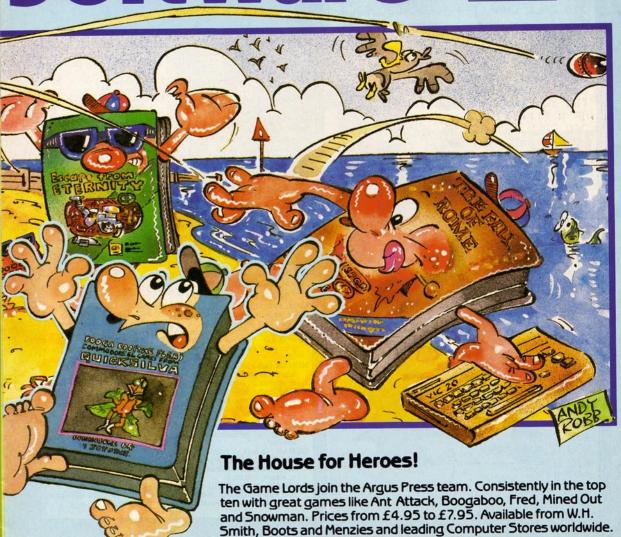
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Five million barbarians, an army or two of Persians, several thousand upset Armenians, fifty legions of itinerant

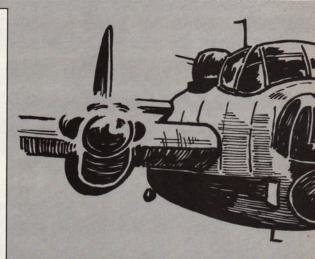
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Computers* preferred Software Argus Press of tware Group Argus Press of tware Group



100 CALL CLEAR 110 CALL SCREEN(2) 120 CALL CHAR(100, "3C7EFFFFFFF7 E30") 130 CALL CHAR(104, "0800080008000 8") 140 CALL CHAR(112, "00001818FFFFF F") 150 CALL CHAR(113, "000020702") 160 CALL CHAR(128, "00001818FFFFF F") 170 CALL CHAR(136, "A963F33F9F1F7 FFF") 180 CALL CHAR(137, "95C6CFFCF9F8F EFF") 190 CALL CHAR(138, "FF7F1F9F3FF36 3A9") 200 CALL CHAR(139, "FFFEF8F9FCCFC 695") 210 CALL CHAR(144, "303030303030303 C3C") 220 FOR I=2 TO 8 230 CALL COLOR(I,11,1) 240 NEXT I 250 PRINT TAB(10); "MINEFIELD": " *********** "DO YOU WANT INSTRUCTIONS"::"(Y OR N)"::::: 260 CALL KEY(0,K,S) 270 IF S=0 THEN 260 280 IF (K=78)+(K=110)THEN 680 290 IF (K=89)+(K=121)THEN 310 300 GOTO 250 310 RESTORE 3000 320 CALL CLEAR 330 FOR I=1 TO 10 340 READ A\$,B,C 350 GOSUB 2450 360 NEXT I 370 FOR DE=1 TO 400 380 NEXT DE 390 CALL CLEAR 400 RESTORE 3030 410 FOR I=1 TO 5 420 READ A\$, B, C 430 GOSUB 2450 440 NEXT I 450 GOTO 720 460 CALL CLEAR 470 AS="HIGH SCORES" 480 B=1 490 C=10 500 GOSUB 2450 510 A\$="---520 B=2 530 C=9 540 GDSUB 2450



If you know and love the game Bomber, you'll drool over this. It's an adaptation of that well known game, but this time you start from the bottom and work your way up.

This game features a mystery bonus which can double your score, 18 levels of play, with increasing difficulty, a mystery blowing-up of the submarine and an end of sheet bonus. Once you have reached 10,000 points you get an extra submarine as a reward for your efforts. The hall of fame records your high scores.

Texas BASIC differs from other BASICs in that you don't have direct access to the processor. Instead you use built-in machine code subprograms for sound and graphics. Only statement lines are supported.

Hints on conversion

Clear clear screen
Color (a,b,c) set colour of
character; a foreground, b
colour, c background colour
Char (a,a\$) redefine character
a to pixel pattern defined by
a\$

HCHAR (a,b,c,(d)) place character c at row a and column b, optionally repeat d times VCHAR (a,b,c,(d)) place character c at row a and column

b, optionally repeat d times vertically Sound (a,b,c) play frequency b for a milliseconds at

volume c
GCHAR (a,b,c) return the
ASCII code into variable c
of the character at screen row

a, screen column b

Key (0,a,b) return ASCII code
into a of key pressed. Return
0 into b if no key pressed

Variables

A\$ get string from data statements

B character row in print routine

C character column in print routine

D skill level

E lives

F submarine column G bomb character

G bomb character H submarine row

M depth of mine

N volume

O second rest variable

P bomb row O bomb column

R first test variable

T character

V hit X third rest

A third rest

How it works

100-110 set screen colour 120-210 define characters

220-240 set colours 250-300 test for instructions

310-450 instructions routine 460-740 high score hall of fame

750-1390 set up screen 1400-1470 flashing mines and

start 1480-1710 main game se-

quence 1720-1980 end of sheet bonus

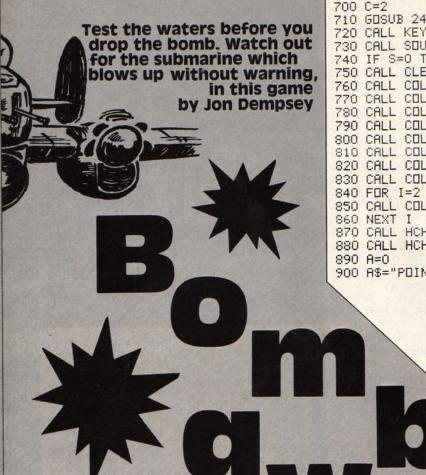
1990-2020 test for bonus sub 2030-2180 test bomb for hit and bonus

2190-2250 move bomb 2260-2440 hit mine routine

2450-2490 print at routine 2500-2600 blow up sub routine 2610-2700 game over

2710-2750 test for high scores 2760-2840 set up high score message 2850-2990 sort high scores

3000-3060 a data for print messages

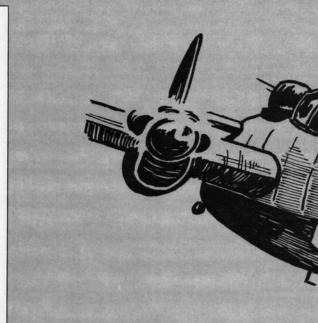


710 GOSUB 2450 720 CALL KEY(0,K,S) 730 CALL SOUND(-99,-4,0) 740 IF S=0 THEN 720 750 CALL CLEAR 760 CALL COLOR(9,10,1) 770 CALL COLOR(10,16,1) 780 CALL COLOR(11,11,1) 790 CALL COLOR(12,13,13) 800 CALL COLOR(13,2,13) 810 CALL COLOR(14,9,1) 820 CALL COLOR(15,14,13) 830 CALL COLOR(16,1,1) 840 FOR I=2 TO 8 850 CALL COLOR(I,2,16) 870 CALL HCHAR(1,1,120,96) 880 CALL HCHAR(23,1,120,64) 900 AS="POINTS="&STR\$(A)&"xxxx" 910 B=2 920 C=16 930 GOSUB 2450 940 X=1 950 D=6 960 E=3 970 F=2

550 FOR I=10 TO 2 STEP -2
560 A\$=STR\$(I/2)&"."&CHR\$(32)&ST
R\$(V(I/2))
570 B=(I*2)+2
580 C=3
590 GOSUB 2450
600 NEXT I
610 FOR I=10 TO 2 STEP -2
620 A\$="__"&V\$(I/2)
630 B=(I*2)+2
640 C=14
650 GOSUB 2450
660 CALL SOUND(-99,110*I,4)
670 NEXT I
680 A\$="PRESS ANY KEY TO PLAY"

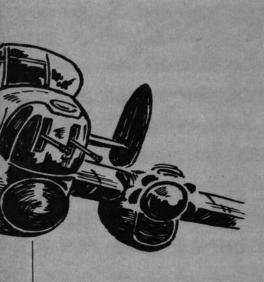
690 B=24

980 6=18 990 A\$="SHOTS="&STR\$(6)&"x" 1000 B=2 1010 C=3 1020 GDSUB 2450 1030 IF D=18 THEN 1060 1040 H=D+4 1050 GOTO 1070 1060 H=22 1070 RANDOMIZE 1080 CALL HCHAR(4,1,32,608) 1090 CALL HCHAR(3,1,120,32) 1100 CALL HCHAR(23,1,120,32) 1110 J=INT(RND*15)+4 1120 L=INT(RND*32)+1 1130 Y=INT(15*RND)+4 1140 YY=INT(L*RND)+1 1150 CALL HCHAR(J,L,159) 1160 CALL HCHAR(Y, YY, 158) 1170 FOR I=5 TO 29 STEP 2 1180 M=INT(RND*D)+1 1190 CALL VCHAR(4, I, 104, M) 1200 CALL HCHAR(M+3, I, 100) 1210 CALL SOUND(-50,-5,0) 1220 NEXT I 1230 D=D+1 1240 IF D<>18 THEN 1270 1250 Z=D+1 1260 GOTO 1280 1270 Z=D 1280 A\$="CARD="&STR\$(Z-6)&"x" 1290 B=24 1300 C=3 1310 GDSUB 2450 1320 CALL HCHAR(24,20,120,8) 1330 GOSUB 1350 1340 GOTO 1400 1350 FOR I=1 TO ((E-1)*2)STEP 2 1360 CALL SOUND(-10,-1,0) 1370 CALL HCHAR(24,20+1,128) 1380 NEXT I 1390 RETURN 1400 CALL KEY(0, K, S) 1410 CALL COLOR(9,2,1) 1420 CALL HCHAR(H,F,112) 1430 CALL HCHAR(H,F,32) 1440 CALL SOUND(-200,500,5,-3,5, 1000, 10) 1450 CALL COLOR(9,10,1) 1460 U=0 1470 IF S=0 THEN 1400 1480 CALL HCHAR(H,F,112) 1490 CALL KEY(0,K,S) 1500 IF S=0 THEN 1530 1510 IF G=0 THEN 2500 1520 IF K=32 THEN 2030 1530 CALL GCHAR(H,F+1,D)



```
1540 IF (D=100)+(D=158)THEN 2500
1550 F=F+1
1560 IF FK32 THEN 1640
1570 CALL HCHAR(H,F,32)
1580 F=2
1590 H=H-1
1600 A$=STR$(G)&"x"
1610 B=2
1620 C=9
1630 GDSUB 2450
1640 CALL VCHAR(4,31,32,19)
1650 CALL HCHAR(H,F-1,32)
1660 IF H>3 THEN 1480
1670 IF D>=18 THEN 1680 ELSE 170
n
1680 D=18
1690 GOTO 980
1700 CALL HCHAR(4,1,32,32)
1710 IF G=0 THEN 970
1720 A$="BONUS"
1730 B=10
1740 C=10
1750 GOSUB 2450
1760 IF G>1 THEN 1820
1770 A$=STR$(G)&" BOMB"
1780 B=12
1790 C=10
1800 GDSUB 2450
1810 GOTO 1860
1820 A$=STR$(G)&" BOMBS"
1830 B=12
1840 C=10
```

PROGRAM



```
1850 GDSUB 2450
1860 AS="@ 50 PDINTS EACH"
1870 B=14
1880 C=10
1890 GDSUB 2450
1900 A$=STR$(G*50)&" PDINTS"
1910 B=16
1920 C=10
1930 GDSUB 2450
1940 A=A+(G*50)
1950 A$=STR$(A)&"x"
1960 B=2
1970 C=23
1980 GDSUB 2450
1990 IF (A>=10000)*(X=1)THEN 200
n ELSE 970
2000 E=E+1
2010 X=X+1
2020 GOTO 970
2030 P=H
2040 6=6-1
2050 CALL SOUND(-100,-5,4)
2060 Q=F
2070 Q=Q+1
2080 P=P-1
2090 CALL GCHAR(P,Q,R)
2100 CALL GCHAR(H,F+1,0)
2110 IF D=100 THEN 2300
2120 IF (R<>159)*(R<>32)*(R<>100
)*(R<>158)THEN 1480
2130 IF (R=32)+(R=158)THEN 2190
2140 IF R=100 THEN 2300
```

```
2150 A=A*2
2160 CALL SOUND(-150,1000,3,-7,1
0,330,3)
2170 CALL HCHAR(P,0,32)
2180 GOTO 2340
2190 CALL HCHAR(P,Q,113)
2200 CALL SOUND(-50,3000,7)
2210 CALL HCHAR(H,F,112)
2220 IF F=32 THEN 1570
2230 IF QK32 THEN 2260
2240 CALL HCHAR(P,Q,32)
2250 GOTO 1570
2260 CALL HCHAR(P,0,32)
2270 CALL HCHAR(H,F,32)
2280 F=F+1
2290 GDTO 2070
2300 U=U+1
2310 CALL VCHAR(4,0,32,P-3)
2320 A=A+50
2330 CALL SOUND(-750,110,2,-7,0,
200,5)
2340 IF (A)=10000)*(X=1)THEN 235
0 ELSE 2390
2350 E=E+1
2360 X=X+1
2370 GOSUB 1350
2380 CALL SOUND(-750,110,2,-6,0,
192, 2)
2390 A$=STR$(A)&"x"
2400 B=2
2410 C=23
2420 GOSUB 2450
2430 IF U=13 THEN 1710
2440 GOTO 1480
2450 FOR T=1 TO LEN(AS)
2460 Z=ASC(SEG$(A$,T,1))
2470 CALL HCHAR(B, T+C, Z)
2480 NEXT T
2490 RETURN
2500 CALL HCHAR(H,F,136)
2510 CALL HCHAR(H,F+1,137)
2520 CALL HCHAR(H+1,F,138)
2530 CALL HCHAR(H+1,F+1,139)
2540 FOR I=0 TO 30
2550 CALL SOUND(-200,-7,I,110,I)
2560 NEXT I
2570 E=E-1
2580 D=D-1
2590 IF E=0 THEN 2610
2600 GOTO 970
2610 A$=STR$(G)&"x"
2620 C=9
2630 B=2
2640 GOSUB 2450
2650 A$="GAME OVER"
2660 B=12
2670 C=10
```

TI-99/4A PROGRAM

2680 GDSUB 2450 2690 FOR DE=1 TO 700 2700 NEXT DE 2710 CALL CLEAR 2720 FOR I=2 TO 8 2730 CALL COLOR(I,7,1) 2740 NEXT I 2750 IF A>V(5)THEN 2760 ELSE 460 2760 V(5)=A 2770 RESTORE 3050 2780 FOR I=1 TO 6 2790 READ A\$,C 2800 B=10+(I*2) 2810 GOSUB 2450 2820 NEXT I 2830 INPUT W\$ 2840 IF LEN(W\$)>10 THEN 2830 2850 V\$(5)=W\$ 2860 CALL CLEAR 2870 FOR II=1 TO 5 2880 FOR I=1 TO II 2890 IF V(II) (V(I) THEN 2970 2900 CALL SOUND(-99,1100,1,2000, II) 2910 VV=V(I) 2920 VV\$=V\$(I)

2930 V(I)=V(II) 2940 V\$(I)=V\$(II) 2950 V(II)=VV 2960 V\$(II)=VV\$ 2970 NEXT I 2980 NEXT II 2990 GOTO 460 3000 DATA ********,1,10,MINEF IELD, 3, 11, *********, 5, 10, YOUR SUB HAS RUN OUT OF AIR,7,3 3010 DATA AND YOU MUST SURFACE--IN,9,2,A MINEFIELD.,11,2,YOU HAV E EIGHTEEN MISSILES, 14, 3 3020 DATA TO HIT ALL THE MINES., 16,2,YOU GET AN EXTRA SUB AT,19, 3.10000 POINTS.,21,2 3030 DATA THERE IS A MYSTERY BON US,5,3,WHICH DOUBLES YOUR SCORE. ,7,2,USE THE SPACE BAR TO FIRE., 10,3 3040 DATA GOOD LUCK., 15, 10, PRESS ANY KEY TO PLAY.,24,2 3050 DATA CONGRATULATIONS, 4, YOUR SCORE IS,4, ONE OF THE,4, FIVE HI GHEST, 4, PLEASE ENTER, 4 3060 DATA YOUR NAME,4

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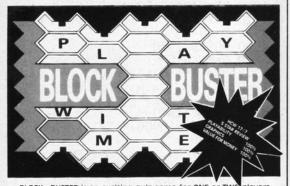
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Death Star **48K Spectrum**

Amazing Games, 39 Maple Dr, Burgess Hill, W Sussex RH15 8EX

very simple loading screen leads to the options of keyboard, Kempston, Interface 2 interfaces or cursor joystick. This basic game doesn't stand up against others and doesn't make use of the Spectrum's potential in sound, colour or graphics

The insert announces that you are plunged into the outer sector of the Deathstar. Flying through the trench you must destroy all the alien craft coming at you before passing through a force wall to reach the next sector.

Finally you must score a direct hit on the reactor core on Sector 0 and destroy the Imperial Deathstar, saving rebels on the fourth moon of Yavin. You're warned that 3D effect extends to lasers, so hitting the enemy requires skill.

How misleading - the screen consists of a smallish diamond with a cross at the base which Z,X,0 and O move around. The aliens take some time to be removed (if ever) while the trench isn't realistic and I kept hitting the wall.

A flat, boring game that would have done well on a ZX81. T.W.

instructions	45%
playability	40%
graphics	20%
value for money	15%



Forced Route TI-99/4A £6

Stainless, 10 Alstone Road, Stockport, Cheshire

An intriguing tactical game for two players. The display is an 8 x 8 squared grid with four innermost squares removed. Top left and bottom right are the starting positions of each player, marked by red and blue counters. The object is to move the counter until it occupies your opponent's

starting square.

Inside the remaining squares of the grid are arrows, randomly located when the board was set up, which point in three of eight possible directions. It is these indicators that determine the moves as you are only able to go in one of the directions shown on the square that your opponent occupies. So if you plan to

outwit him some subtle manouevring is required.

4 13 17

Before the game starts you have the choice of playing with unlimited or limited moves, from 5 to 9999, to control the length of each game. When, in the latter case, the selected number has been played the computer decides the winner based on who is nearer to the goal. In the event of no legal moves being possible for either player, the participants must decide this for themselves.

instructions playability graphics value for money



Knuckles Memotech MTX £8.95

Man Wan

Continental, Station La, Witney,

program resembling Pengo. You control a character randomly-generated maze of graphic lumps, called roks. Individual roks can be pushed around the screen to trap or crush three monsters known as rokeaters, which chase you around. Crushed rokeaters reappear at the corners of the display unless roks are in the way, when they materialise at random. If a rok isn't free to move when pushed by the player, it disintegrates. Superficially the game resembles Pac-Man, with a maze you create yourself.
The maze also contains magic

- objects which you must line up vertically or horizontally before you can move on to the next level. You get bonus points for eating fruit which appears at random. At later levels you encounter white holes capable of duplicating roks

The graphics are smooth and colourful, the sound effects are good, although the background tune (as used in Manic Miner) can be rather irritating. For some reason the monsters and the player are depicted using the graphic shapes from another Memotech game, Blobbo. There are four pages of detailed on-

screen instructions. Well-written, though S.N.G. expensive

instructions playability 80% alue for money



How do they play?

Read our reviews before you buy - here's a selection for the Memotech, Spectrum and the TI-99/4A

Crazy Cliff TI-99/4A £7

Distributed by Stainless Software, 10 Alstone Rd, Stock-port, Cheshire

This rather odd game is well me named. The aim is to scale buildings from the outside, so avoiding hazards. I have a half-zer formed memory of some daft to American trying such a stunt, ing only when he got to the top he of wasn't rewarded with an extra with the proposed of the students of the student man and a fresh, slightly more difficult building. The minimal instructions are in 11 lines on the inlay - the author has provided a cursory demonstration in which you are advised to avoid value for money closed windows, refrain from climbing to the window below a "face" as a flower pot will be hurled at you, and to avoid other hazards including falling bottles

from a party upstairs.

There is also a "special guest appearance from a famous arcade character, if you make it that far" — I got no further than the ground floor. One face and three closed windows scuppered me every time.

There is a score and a high score. I never raised either above zero, which may have been due zero, which may have been due to my incompetence. A frustrat-ing, and, judging by the spelling of "alfa lock", American, game with reasonable graphics. Needs Extended BASIC, joysticks. P.B.

instructions playability graphics

Sloopy's Christmas TI-99/4A £5

Sceptre, 59 Norbury Grove, Walker, Newcastle-upon-Tyne NE6 2TB 59 Norbury Grove,

This game is divided into three separate programs, each a piece in a kind of jigsaw, the completion of which leads to a completion of which leads to a special offer. Parts I and II provide you with passwords on completion, which are required before you can attampt parts II and III. Unfortunately, try as I might, I could load only parts I and II, and one point the company might consider is duplicate recordings. The pames duplicate recordings. The games are simple, straightforward, and very playable, although adults are unlikely to find them appealing. The theme centres around a character called Sloopy and his Christmas; he seems a combination of two characters. Snoopy and Droopy. The quality of the title graphics far exceeds that of the games' graphics, which are just adequate. Game I has you attempting to control to has you attempting to control the nas you attempting to control the safe parachuting of some of Sloopy's friends, game II finds you engaging in a most peculiar turkey shoot, marred by tardy sprite collision checks, and game sprite collision checks, and game III, which failed to load, apparently involves driving Sloopy home safely. Instructions are adequate, although the programming could use some tightening up to take advantage of the speed of Extended BASIC. Needs Extended BASIC

instructions value for money



tters Letters Letters Letters Leters Letters L

Cryptic

clues

In reply to Andrew Wilkins' letter (HCW 67) I would like to make a few suggestions to help him with the Commodore 64 adventure game, The Ouest.

1 Examine the contents thereof.

2 As with most adventure games (and life, the biggest adventure!) results are almost always achieved after a sequence of events.

3 If the cap fits, wear it.

4 To Zebras and not to horses, abbreviate matters and that's my password to success.

5 If at first you don't succeed etc, ... (especially with rattling gates).

I would tell you more, but you'd be throwing your disc drive out of the window through boredom instead!

If you wish to know more, my address is available from HCW.

Cathy Oxspring, Paignton,

Solve those

auests

If any readers need help with these adventures: The Hobbit, Adventure Land, Pirate Adventure and Colossal Cave Adventure, I will be glad to help if they send me an s.a.e.

I need help with Valhalla. I can't find Skalir. Can someone give me a hand? John Rundle, Aldershot, Hants

Dive for

pearls

Thanks, from another TI owner, for continuing to support us "TI Tappers".

The great game in HCW 67 by Phil Ord was a further example of the wonderful graphics, colour and sound capabilities of the much maligned and now seemingly abandoned TI-99/4A.

I found the game great except for one small point: there was no score or men remaining facility. However, I hope Phil won't mind if I attempt to remedy this with the following alterations to his program.

alterations to his program.

1132 A\$ = 'SCORE =' &STR\$(P)&''....

M E N = . ' ' & S T R \$
(MEN)

(MEN) 1134 R = 1 1136 C = 5 1138 GOSUB 3000 1645 IF P = P+10 THEN 1647 ELSE 1650 1647 GOSUB 1132 2383 IF P = P+10 THEN 2386 ELSE 2390 2386 GOSUB 1132

2386 GOSUB 1132 3000 REM PRINT AT ROUTINE 3010 FOR I = × TO LEN (A\$)

3020 CALL HCHAR (R,C + I,ASC(SEG\$(A\$,I, 1)))

3030 NEXT I 3040 RETURN Also for those

Also for those of us with joysticks, I have added a routine which will enable the diver to be moved around more easily. Change the following lines as shown.

1140 CALL JOYST (1,V,W) 1150 IF (V=O)*(W=O) THEN 1140

1220 CALL JOYST (1,V,W) 1250 IF (V=O)*(W=O) THEN 1440 1270 IF W<> 4 THEN 1310

1310 1310 IF W<>-4 THEN 1350 1350 IF V<>-4 THEN

1390 1390 IF V<>4 THEN 1440

1730 CALL JOYST (1,V,W) 1740 IF (V=O)*(W=O) THEN 1730 Maurice Rymill, Birming-

Live on,

Manic Miner

Here's how to get more lives on Manic Miner (see J. Dugdale's letter HCW 67)

Dugdale's letter, HCW 67)
Type "Verify" (play on tape) and a verify error

results. Load '' '',1,1 (load error) POKE 16573,234 POKE 16572,234 POKE 16571,234 SYS 16384

The program will run and the lives won't run out. To restart, RUN/STOP, RESTORE and SYS 16384.

Now can someone tell me how to get into cheat mode on Revenge? M. Livingstone, Doncaster,

S Yorks SOPC

support

I read Paul Solly's letter (HCW 66) about the Sord M5. I know exactly how he feels. However, he's lucky he has a dealer near him — I don't!

If he finds his local dealer doesn't provide the software he needs, he should write to CGL. I have written to them many times and I have nothing but praise for their help.

He should also try Hamsoft, a really good company. Maybe he and other M5 readers could contact me with ideas and tips about starting an M5 users club.

If it wasn't for HCW, I think most people would never have heard of the M5. But why are all the star programs for the Spectrum or CBM 64? How about a little incentive to us M5 users?

Sean Rima, Kylemore, Connemara, Co Galway, Ireland

We do feature Sord programs when we have good listings to publish. If you have excellent games you have written, send them in for publication.

60 Progs

reprint 1

In reply to R.T. Goodwin's letter (HCW68), I also purchased Sixty Programs for the VIC-20 by Pan Books. Since I had problems with several programs, I phoned Pan Books to complain. One of their staff told me they have had problems with the early version, and if I sent her the first page with my name and address she would send me a new revised book. Pan Books' address is Cavaye Place, London SW10.

I hope this helps readers with the same problems. D.J. Marshall, Northolt, Middx

60 Progs

reprint 2

I sympathise with R.T. Goodwin (HCW68) concerning the Sixty Programs book published by Pan.

I and a colleague purchased copies of these books for our Commodore 64s. Unfortunately, none of the programs we typed in seemed to work.

My colleague phoned the organisation concerned. They informed him that the programs had not been properly tested and there were many errors. He was informed that the second print of the book was correct.

He was also told that if he forwarded the first page of his book to the address shown on that page he would receive one of the corrected manuscripts. This we did, and since receiving our new books we have had few, if any, problems. I suggest that R.T. Goodwin does the same and obtains a

new book.

Surely there should be moral or practical standards to which program listings should adhere? Wasting time typing in programs which don't work anyway is very annoying. Publishing houses should be made to test every listing before it goes on to general release.

More power to the Trading Standards Offices, I say. Paul Keenor, Cardiff

Texas fan

I am a TI-99/4A owner and I want to tell you how difficult it is for us to get software. You can either buy it by mail order or from a dealer who sells TI software. This can be really expensive.

I buy HCW every week and I like reading the letters from other Texas owners. I enjoy the games HCW prints; they are very challenging.

My cousin bought the TI before me and he influenced me to buy mine. Now we swap games and we don't get fed up with the same ones.

Most people think the TI-99/4A is a waste of money. Other computer owners say their micro is better than ours. I agree with Sam Singh (HCW 67) and Pedro Magatherus (HCW 68) that the Texas is a great computer.

So please don't stop supporting us, HCW! R. Virdi, Cranford, Middx

Novice

needs

advice

I am writing to ask if anyone can tell me a fool-proof security program for the Commodore 64. I am very interested in programming, although I'm not very good yet, and I would like a neat program to prevent people getting into my programs.

I have seen a few of these programs in HCW, but those I have seen haven't been for my micro. The only programs I do at the moment are your programs, the ones which always work. I agree with all those sensible people who write and tell you how good the programs are. I haven't had one which hasn't worked yet, and I have enjoyed every one.

When I run out of listings I like to sit down and write my text adventure. I'm trying to think up an original one to sell. In HCW 67 you reviewed Pub Quest. I giggled at the plot. I would like to do a graphical adventure game but I haven't learned how yet.

I want to be able to get rid of the? which comes in when you put in an input. It looks ugly there. I would also appreciate an auto start program. If you load a program typing LOAD instead of SHIFT/RUN STOP, the program loads but doesn't run.

Incidentally, with reference to Robin Elworthy's view (HCW 61), if there's one thing I can't stand it's people going round telling others not to play games on their computers. I love progamming and sit at the keyboard for hours with the poor adaptor nearing melt-down. After this, if I feel like it, I will happily load up Dicky's Diamonds or enjoy half an hour of Hovver Bovver. This gives me a little break before I go back to my program. Programming has been my favourite hobby ever since I got the machine.

Some people do use computers solely for games, but if they want to, let them. I know there is no end to what my computer can do, and that's good enough for me. Games are a break from programming, and programming is definitely not a sidekick for

Keith March, Axminster, Devon

Software winner

Send your letters to Letters, Home Computing Weekly, No.1 Golden Square, London W1R 3AB. Don't forget to name your computer — the best letter could win £5-worth of software. Got a problem with your micro? We'll soon be starting a queries page, so send your technical questions to Queries at the above address.

Caesar the Cat **BBC B £6.95**

Mirrorsoft, Holborn Circus, London EC1P 1DO

The screen displays a kitchen shelf laden with food and crockery. However, the little vermins nibble away at the food and under your guidance, Caesar must leap from shelf to shel to catch the naughty rodents.

Scoring system is unusual. You start with 10,000 points and it automatically goes down as time passes. However, score is gained by catching a mouse and dumping it in a larder for later consumption. A huge chunk of your score disappears if Caesar knocks down any crockery or bangs his head against the wall. The game ends if he knocks the red crockery off the shelf or if the score goes down to zero.

When Caesar catches nine mice, a new set of greedier, nippier mice come on the scene but 're worth more points!

Not only is this game totally original, the sprite-like graphics and beautiful animation are incredible. The way the kitten moves in front and disappears behind objects is mind-boggling.
The background music is terrific too. To top it all, this game is maddeningly addictive and challenging. It should be in everyone's software collection.

instructions	95%
playability	100%
graphics	100%
value for money	100%

Warship Oric £5.95

JLP, 17 Broadlands Dr, Malvern, Worcs WR14 1PW

Here's an extract from the title page. "You are the commander of a nuclear-elastic powered war-Your mission is to find your way through the mine field for your ship and the troop ship you are escorting. The troopship must be safely docked at the landing stage. To do this you have to destroy the shore batteries which are protected by helecopters armed with anti-ship missiles. A hostile submarine has been contacted and is closing in. You will be under constant fire as you negotiate the mine

In fact, in this 100 per cent BASIC, supposedly strategy game, all you do is guide the little ship with the cursor keys through

blue dots, blast the occasional helecopter hoping you don't get blasted into a million pieces by one of the random missiles. The whole process, to put it mildly, is

The graphics are really poor and the sound is unimaginatively boring. The game itself is very repetitive and gets monotonous after the first game. The cheaply produced inlay card, sparse instructions and childish humour of the title page doesn't help either. In any case, what in the world is a "Helecopter"? S.S.

instructions	30%
playability	40%
graphics	20%
value for money	30%



Nemo Memotech MTX £6.95

Continental, Station La, Witney, Oxon

Nemo is an aquatic version of the Jeff Minter game Gridrunner. You control a ship just off the coast, firing harpoons up the display at more or less anything which gets in the way. Shark fins move back and forth through the water, making their way down screen centipede-style. An indestructible land crab bounces diagonally around the display, while electric eels patrol the border of the screen, selectively electrifying sections of the water. Fast-moving blue mines zoom up screen towards the sharks.

The display is a garish aerial view, with waves lapping up and view, with waves tapping up and down in the green sea, a yellow beach and orange land. Your five ships, which look suspiciously like laser-bases, can move anywhere — even on land. You must avoid hitting the moving objects and harpoon all the objects, and harpoon all the sharks, to move on to a stretch of still more heavily infested coastline.

Nemo uses a lot of character graphics; this permits a large number of moving objects but forces rather jerky motion, although the waves are animated very cleverly. Sound effects are simple but adequate; the game is quite addictive, but it is a shame that — yet again — Continental has been unable to come up with a genuinely original program.

instructions	70%
playability	80%
graphics	70%
value for money	70%

Game for a laugh?

Latest games for the BBC, Oric, Memotech and Electron get the once-over from our review panel

Cribbaae 32K BBC £7.95

Micro-Aid, 25 Fore St, Praze, Camborne, Cornwall TR14 0JX

Until I received this program the certain something which makes a only card game I had played on a game addictive. It is the first computer was Pontoon. Without game in a long while which has gambling element it was

boring.
Cribbage does not suffer from this drawback as it is played for points not money and the skillto-luck balance is weighted more heavily in favour of skill.

The program arrives with five photocopied sheets of instructions, the first half of which is concerned with the rules and methods of scoring. Part two of the instructions explains the

sequence of events.

Upon running the program you are given the option of playing with five or six cards and

scoring to 61 or 121 respectively. A choice of level is also included to allow the less experienced player to compete on more equal terms with the computer.

This program must have that game addictive. It is the first game in a long while which has held my wife's attention, so much so that I was almost forced to write this review using a pen and paper as I couldn't get near the computer. J.R.

instructions	80%
playability	75%
graphics	50%
value for money	30%



Gatecrasher **32K Electron** £6.95

Quicksilva, 13 Palmerston Rd, Southampton SO1 1LL

From the name you may get the impression it has something to do with gatecrashing a party. It's nothing of the sort. This game deals with the art of barrel rolling.

On screen is displayed a maze with trap doors leading to empty slots. The idea is to control your man at screen top and roll the barrel down into the empty slot. First the trap doors have to be adjusted. If the barrel rolls into an occupied slot you lose two barrels.

There are seven levels difficulty. On level five you have to put two barrels in each slot. If you find all the trap doors lead to occupied slots and you have only one empty slot left, you can cause an earthquake which will re-adjust the trap doors, but this will cost you one barrel.

At the end you are given a code to crack. If you are successful you can enter the J200 competition being run by the manufacturers.

This is a enjoyable game with simple but good graphics. The ease of playing makes it a game for all ages. M.B.

instructions	100%
playability	100%
graphics	100%
value for money	100%



This week we conclude the tape filer program featured last week. We also show you how to delve into your program's inner secrets

Tape filer part 2 by Iain Murray

This listing completes last week's tape index program with the reader section of the program. The routine allows you to search quickly through your tapes for a particular artist or tune or both.

Up to five names may be searched for at once. A whole tape may also be viewed. The program will automatically search through all your data files, print out any findings and the location of that tune in your music collection. It will stop if it finds anything, but if you press "SHIFT LOCK" it will search continuously until it reaches the last file. The time of the search

will be printed at the end.

NOTE: As usual, cursor
controls are given in REM statements, but these do not need to
be typed in.

How it works

150-220 menu and choice selection

230-480 list complete tape 294-395 read in data, checking for interrupts

400-480 separate out tune and artist, and print out
520-522 input number of names

520-522 input number of names to be searched for 530-575 input required names

530-575 input required names 580-597 input start tape number and make up filename 599-670 input data and take

599-670 input data and ta appropriate action 680-690 check for artist

680-690 check for artist
700-710 check for tune
720-726 check for artist and tune
730-777 print artist, tune and

location
780-830 go on to next tape if required

840-850 print number of references found and search time

Tape filer Hints on conversion

Apart from the special file handling commands, this program should be easy to convert to run on other micros, or with cassette data storage. NOTE: PEEK(654) — "SHIFT" pressed (1) or not (0)

Find your fo see how your program works

Tape filer Variables

AR\$(10) artists names
TU\$(10) tune names

K2(10) number of references found

AL(10) length of artist's name TL(10) length of tune name D\$(1000) data lines

M number of highest tape on file
FM\$ current filename
N tape number

DA\$ input data line
N3 number of files to be

searched for QT,F tape to be searched

TT time TU tune number

SI side number

T\$ tune name or title

R\$ artist's name L tape length

D data counter S side counter

C1,C2 data counters

K item to be edited

BASIC m_c disassembler by A Huke

This machine code disassembler is written in BASIC. It contains no special POKEs or commands and will run on the Commodore 64 or any expanded VIC-20 if you make two changes for screen width.

This program allows you to view in assembly language the workings of CBM 64 ROM and machine code routines included in many HCW games and utility programs.

All numbers are displayed in hex but memory start may be entered in decimal or hex. Disassembly is started by entering S and a memory location, and halted by the space bar. Press C to continue or S to enter new start memory.

Number calculation (press N) halts disassembly. Press C or S to continue. The screen displays memory location, mnemonic operand and memory dump. The lo-byte is reversed for the operand and branches are calculated.

Memory dump shows correct lo-byte order and branch offset.

M/c disassembler Variables

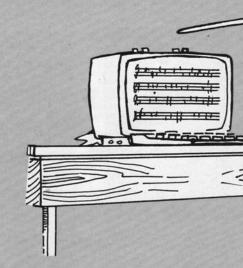
DIM%(2) value of operand DN decimal number SM memory being processed N1,N2 used in H hex number

conversion and print
NN,H1,H2,H3,H4 used in dec
to hex conversion

K,MM,DD used in hex to dec conversion

Pn value of number being processed

A\$ key input



vourite tune or

10 REM ** MACHINE CODE DISASSEMBLER ** 20 DIMM%(2):GOTO860 38 REM ** CALCULATE AND PRINT HEX NUMBERS ** 40 N1=INT(DN/16)+48:IFN1)57THENN1=N1+7 45 N2=DN-INT(DH/16)*16+48:IFN2)57THENN2=N2+7 56 PRINTCHR\$(N1);CHR\$(N2);:RETURN 58 REM ** ROUTINE FOR ONE HEX NUMBER BYTE ** SØ SM=SM+1:DN=PEEK(SM):M%(1)=DN:GOSUB40:RETURN S8 REM ** ROUTINE TO REVERSE LO-BYTE HI-BYTE ** 70 DH=PEEK(SM+2):M%(2)=DN:GOSUB40:DN=PEEK(SM+1):M%(1)=DN:GOSUB40:SM=SM+2:RETURN 80 REM ** DEC TO HEX CONVERSION AND PRINT ** 90 H1=INT(DN/4096):H2=INT((DN-4096*H1)/256) 95 H3=INT(((DN-4096*H1)-H2*256)/16) 100 H4=(DN-4096*H1)-(H2*256)-H3*16 105 NN=H1:GOSUB120:NN=H2:GOSUB120:NN=H3:GOSUB120:NN=H4:GOSUB120:RETURN 120 NN=NN+48: IFNN>57THENNN=NN+7 130 PRINTCHR\$(NH);:RETURN 150 REM ** BRANCH ROUTINE ** 160 SM=SM+1:DN=PEEK(SM):MX(1)=DN:IFDN>127THEN180 170 DN=SM+DN+1:GOSUB90:RETURN 180 DN=SM-255+DN:GOSUB90:RETURN 185 REM **** 199 REM **HEX TO DEC CONVERSION ** 200 K=LEN(A\$): DD=4 *(K-2) 210 MM=0:FORJ=2TOK 215 N1=ASC(MID\$(A\$,J,1))-48:IFN1)9THENN1=N1-7 220 MM=MM+N1*(DD/12) 230 DD=DD/4: NEXT: RETURN 290 IFSMD65535THENPRINT"MEMORY OUT OF RANGE":GOT0900 295 DN=SM:GOSUB90:PRINT" "; :PN=PEEK(SM):M%(0)=PN:M%(1)=-1:M%(2)=-1 296 REM **PRINT 2 SPACES 1 ON CM/64 1 SPACE FOR VIC 20** 300 IFPN=OTHENPRINT"BRK";:GOTO800 310 IFPN=8THENPRINT"PHP";:GOTO800



Listing for tape filer

IFPN=16THENPRINT"BPL "; : GOSUB150:GOTO800 IFPN=24THENPRINT"CLC";:GOTO800 320 IFPN=32THENPRINT"JSR "; GOSUB70:GOTO800 330 IFPN=40THENPRINT"PLP"; : GOT0800 IFPN=48THENPRINT"BMI ";:GOSUB150:GOTO800 335 IFPN=56THENPRINT"SEC";:GOTO800 340 IFPN=64THENPRINT"RTI"; :GOT0800 345 350 IFPN=72THENPRINT"PHA";:GOT0800 355 IFPN=80THENPRINT"BVC "; GOSUB150:GOTO300 360 IFPN=88THENPRINT"CLI";:GOTO800 IFPN=96THENPRINT"RTS"; : GOT0800 365 370 IFPN=104THENPRINT"PLA"; : GOTO800 375 IFPN=112THENPRINT"BVS ";:GOSUB150:GOTO800 IFPN=120THENPRINT"SEI"; 380 : G0T0800 IFPN=136THENPRINT"DEY"; 385 :GOT0800 390 IFPN=138THENPRINT"TXA";:GOTO800 395 IFPN=152THENPRINT"TYA"; :G0T0800 IFPN=144THENPRINT"BCC 400 7;:GOSUB150:GOT0800 405 IFPN=154THENPRINT"TXS";:GOTO800 IFPN=168THENPRINT"TAY"; : GOTO800 419 IFPN=170THENPRINT"TAX"; : GOTO800 415 IFPN=176THENPRINT"BCS ";:GOSUB150:GOTO800 420 IFPN=186THENPRINT"TSX"; 422 :G0T0800 425 IFPN=186THENPRINT"TSX"; : G0T0800 IFPN=184THENPRINT"CLV"; 430 : СОТОВИИ 435 IFPN=200THENPRINT"INY"; :G0T0800 440 IFPN=202THENPRINT"DEX";:GOT0800

```
IFPN=208THENPRINT"BNE ";:GOSUB150:GOTO800
445
    IFPN=216THENPRINT"CLD";:GOTO800
450
    IFPN=232THENPRINT"INX";:GOT0800
    IFPN=240THENPRINT"BEQ ";:GOSUB150:GOTO800
460
465
    IFPN=248THENPRINT"SED";:GOTO800
470
    IFPN=234THENPRINT"NOP"; : GOTO800
    IFPN=162THENPRINT"LDX #";:GOSUB60:GOTO800
475
    IFPN=76THENPRINT"JMP ";:GOSUB70:GOTO800
480
    IFPN=108THENPRINT"JMP (";:GOSUB70:PRINT")";:GOTO800
485
490 IFPN=1800R(PNAND227)=160THENPRINT"LDY ";:GOTO700
    IFPN=44THENPRINT"BIT ";:GOSUB70:GOTO800
495
    IFPN=36THENPRINT"BIT ";:GOTO700
500
    IFPN=1400RPN=1320RPN=148THENPRINT"STY "::60T0766
505
    IF(PNAND231)=6THENPRINT"ASL "):60T0700
IFPN=10THENPRINT"ASL ACC."; GOT0800
510
520 IFPN=42THENPRINT"ROL ACC."; GOTO800
   IF(PNAND231)=38THENPRINT"ROL ";:GOTO700
530
535 IFPN=74THENPRINT"LSR ACC.";:GOTO800
540 IF(PNAND231)=70THENPRINT"LSR ";:GOTO700
545 IF(PNAND231)=102THENPRINT"ROR "; GOTO700
550
   IFPH=106THENPRINT"ROR ACC";:GOTO800
565 IF(PNAND243)=192THENPRINT"CPY "::60T0700
570 IF(PNAND243)=224THENPRINT"CPX ";:60T0700
    IF(PNAND7)<>5AND(PNAND7)<>6AND(PNAND7)<>1THENPRINT"???"; GOTO800
580
    IFPN=1370RPN=158THENPRINT"????"; G0T0800
    IF(PNAND227)=1THENPRINT"ORA ";
500
605 IF(PNAND227)=33THENPRINT"AND ";
610 IF(PHAND227)=65THENPRINT"EOR ";
    IF(PNAND231)=70THENPRINT"LSR ";:GOTO700
815
620
   IFPN=74THENPRINT"LSR ACC. ":50T0900
625
    IF(PNAND227)=97THENPRINT"ADC "
   IF(PNAND231)=102THENPRINT"ROR "
530
   IFPN=106THENPRINT"ROR ACC, ": GOTO900
    IF(PNAND227)=129THENPRINT"STA ".
    IF(PNAND231)=1340R(PN=138)THENPRINT"STX ";
645
    IF(PNAND227)=161THENPRINT"LDA .".
    IF(PNAND231)=1660R(PN=170)THENPRINT"LD% ";
   IF(PNAND227)=193THENPRINT"CMP ";
660
    IF(PNAND231)=1980R(PN=202)THENPRINT"DEC ";
IF(PNAND227)=225THENPRINT"SBC ";
665
670
    IF(PNAND231)=2300R(PN=234)THENPRINT"INC ".
    IFPN=150ORPN=182THENGOSUB60:PRINT",Y";:GOTO800:REM ** ZERO PAGE,Y **
700
    IF(PNAND31)=250RPN=190THEN:GOSUB70:FRINT",Y";:GOTO800:REM ** ABSOLUTE,Y **
IF(PNAND31)=1THENPRINT"("):GOSUB60:PRIM*",X)";:REM ** INDIRECT;X **
705
710
    IF(PNAND31)=0AND(PN>159)THENPRINT"#";:GOSUB60:REM ** IMMEDIATE **
720
   IF(PNAND28)=4THENGOSUB60:GOTO800:REM
                                              ** ZERO PAGE **
    IF(PNAND31)=9THENPRINT"#";:GOSUB60:REM ** IMMEDIATE **
730 IF(PNAND28)=12THENGOSUB70:REM ** ABSOLUTE **
    IF(PNAND31)=17THENPRINT"("):GOSUB60:PRINT"),Y";:REM ** INDIRECT,Y
735
740
    IF(PNAND28)=20THENGOSUB60:PRINT",X";:REM ** ZERO PAGE,X **
    IF(PNAND31)=290R(PNAND31)=30THENGOSUB70:PRINT",X";:REM ** ABSOLUTE,X **
755
    IFPN=188THENGOSUB70:PRINT",X";:REM **ABSOLUTE,X **
REM **FOR CM/64 TAB(20):FOR VIC 20 TAB(15) AND REMOVE PRINT" "; **
760
799
800 PŘINTTAB(20); FORJ=0TO2:IFM%(J)>-1THENDN=M%(J):GOSUB40:PRINT" ";
305 NEXT : PRINT
810 GETA$: IFA$<>""THENGOT0835
820 SM=SM+1:GOTO290
830 GETA$
835 IFA$="C"THEN820
840 IFA$="S"THEN900
    IFA$="I"THEN860
845
    IFA$="N"THEN950
846
849
    G0T0830
859
    REM CHARACTER "XX" IS CRSR DOWN
860 PRINT"XXXDISASSEMBLE FROM A NEW MEMORY PRESS S"
865 PRINT"XXXHALT DISASSEMBLEY PRESS THE SPACE BAR "
870
    PRINT"XXXCONTINUE DISASSEMBLEY PRESS C"
```

1 PROGRAMS

```
875 PRINT"XXXRETURN TO INSTRUCTIONS PRESS I"
880 PRINT"MORALL NUMBERS ARE LISTED IN HEX"
885 PRINT"XXHEX NUMBER CONVERTER PRESS N"
890 GOTO830
   REM CHARACTER "XI" IS CRSR DOWN
899
900 PRINT"MENTER START LOCATION DEC. OR HEX"
910 INPUT"MHEX ENTERED $NNNN OR /NNNN
                                        ";A$:PRINT
920 IFASC(A$)>47ANDASC(A$)<58THENSM=VAL(A$):GOTO290
925 IFLEN(A$)<>5THEN900
930 GOSUB200:SM=MM:GOT0290
950 PRINT"ENTER DEC OR HEX ($N OR /N) NUMBER "
955 INPUT"
                 ";A$:IFA$="S"ORA$="C"ORA$="I"THEN835
960 PRINTA$"=":
965
    IFVAL(A$)>65535THEN950
    IFASC(A$)>47ANDASC(A$)<58THENDN=VAL(A$):PRINT"$";:GOSUB90:GOTO955
970
975 IFLEN(A$)<2THENPRINT" FORMAT INCORRECT":GOT0950
980 GOSUB200:PRINTMM;:GOTO955
```

Listing for m/c disassembler

```
140 REM *** TAPE FILER ***
142
   REM
       *** BY IAIN MURRAY (C) 1984 ***
       *** FOR HOME COMPUTING WEEKLY ***
144
    REM
146 REM *** PART 2 OF 2 ***
148 REM [CLR] [3 CRSR DOWN]
149 REM *** READER SECTION ***
150 PRINT "COMMONYOU CAN :"
159 REM * EACH LINE STARTS WITH A [CRSR DOWN]
160 PRINT "M1) SEE A COMPLETE TAPE"
170 PRINT "M2) FIND ALL TUNES BY A PARTICULAR ARTIST";
180 PRINT "M3) FIND A PARTICULAR TUNE BY ANY ARTIST"
190 PRINT "XXA) FIND A PARTICULAR TUNE BY A
                                                         PARTICULAR ARTIST"
195 PRINT "MS) RETURN TO MAIN MENU"
199 REM [2 CRSR DOWN]
200 PRINT "XXXVHICH ONE DO YOU WANT (1-5) ?"
210 GET C$:C=VAL(C$):IF C<1 OR C>5 THEN 210
220 ON C GOTO 230,520,520,520,100
229 REM *** COMPLETE TAPE ***
230 PRINT "J" REM [CLR]
235 INPUT "MUNHICH TAPE ":N:REM CORSR DOWN) CHHITE)
240 IF NC1 OR NOM OR NC>INT(N) THEN PRINT N$:GOTO 235
285 N2=N
290 IF ((N2-1)/5)<>INT((N2-1)/5) THEN N2=N2-1:GOTO 290
291 FM$="TAPEFILE"+STR$(N2)+STR$(N2+4)
293 REM [2 CRSR DOWN] [WHITE] * 295 START WITH [CRSR DOWN]
294 PRINT "XXX SEARCHING FOR TAPE #";N
295 PRINT "MPRESS "CHR$(34)"S"CHR$(34)" TO INTERRUPT LISTING, "CHR$(34)"C";
296 PRINTCHR$(34)" TO CONTINUE LISTING, OR "CHR$(34)"A"CHR$(34)" TO ABANDON"
297 PRINT"LISTING"
299 OPEN 1,8,15:OPEN 3,8,3,FM$+",S,R"
300 INPUT#1/A:IF A<>0 THEN 2900
305 IF N=N2 THEN 330
310 INPUT#3,DA$:IF DA$="3" THEN N2=N2+1:GOTO 305
320 GOTO 310
329 REM [CRSR DOWN] [WHITE]
330 INPUT#3,L$:PRINT "XMMC-";L$
340 INPUT#3,S$
349 REM CORSR DOWN: TOYAN:
350 PRINT "MASIDE ";S$
360 INPUT#3,⊺$
364 REM [CRSR DOWN] [PINK] [CRSR DOWN]
365 PRINT "WWO"; T$; "W"
370 INPUT#3,DA$
375 IF DA$="2" THEN S$=DA$:GOTO 350
380 IF DA≸="3" THEN 455
385 GET A$∶IF A$="A" THEN CLOSE 3:PRINT"MXLISTING ABANDONNED":GOTO 455
```

```
387 IF A$<>"S" THEN 400
390 GET A$:IF A$≃"A" THEN CLOSE 3:PRINT"MÆLISTING ABANDONNED":GOTO 455
395 IF A$<>"C" THEN 390
400 FOR M2=1 TO LEN(DA$)
409 REM [SPADE] IS SHIFTED "A"
410 IF MID$(DA$,M2,1)="♠" THEN 430 -
420 NEXT M2
430 TU$=LEFT$(DA$,(M2-1))
434 REM [WHITE] [LIGHT BLUE]
435 AR$=RIGHT$(DA$,(LEN(DA$)-M2))
440 IF LEN(TU$)<20 AND LEN(AR$)<20 THEN PRINT "■"TU$TAB(20)"5"AR$:GOTO 370
444 REM [WHITE] [LIGHT BLUE]
445 PRINT "#"TU$
446 PRINT "3"TAB(5)AR$
450 GOTO 370
455 CLOSE 3:CLOSE 1
459 REM [2 CRSR DOWN] [WHITE] [RVS ON] [RVS OFF]
460 PRINT "MM#PRESS # SPACE ■ TO CONTINUE :"
470 GET A≴:IF A$=" " THEN FOR I=1 TO 10:K2(I)=0:NEXT I:GOTO 150
480 GOTO 470
518 REM *** PARTICULARS WANTED ***
519 REM [CRSR DOWN]
520 PRINT "WHOW MANY NAMES DO YOU WANT TO SEARCH
                                                     FOR (1-5) ?"
521 GET A$: IF A$<"1" OR A$>"5" THEN 521
522 N3=VAL(A$)
523 FOR N4=1 TO N3
527 IF C=3 THEN 560
529 REM [CRSR DOWN]
530 INPUT "MARTIST'S NAME "; AR$(N4): AL(N4)=LEN(AR$(N4))
540 IF AL(N4)<1.0R AL(N4)>39 THEN PRINT N$:GOTO 530
550 IF C=2 THEN 575
559 REM [CRSR DOWN]
560 INPUT "MNAME OF TUNE "; TU$(N4): TL(N4)=LEN(TU$(N4))
570 IF TL(N4)<1 OR TL(N4)>39 THEN PRINT N$:GOTO 560
575 NEXT N4
579 REM [CRSR DOWN]
580 PRINT "XIGIVE NUMBER OF TAPE TO COMMENCE"
585 INPUT"SEARCH ";QT
590 IF QT<1 OR QT>M OR QT<>INT(QT) THEN PRINT N$:GOTO 580.
592 IF ((QT-1)/5)<>INT((QT-1)/5) THEN QT=QT-1:GOTO 592
593 REM [CRSR DOWN] [RVS ON] [RVS OFF]
594 PRINT"XUSE #SHIFT LOCK® FOR CONTINUOUS SEARCH":TT=TI
595 IF ((QT-1)/5)()INT((QT-1)/5) THEN QT=QT-1:GOTO 595
596 IF QTOM THEN 840
597 FM$="TAPEFILE"+STR$(QT)+STR$(QT+4)
598 REM [2 CRSR DOWN]
599 PRINT "XXXSEARCHING "; FM$
600 OPEN 1,8,15: OPEN 5,8,4,FM$+",S,R"
610 INPUT#1, A: IF A 00 THEN 2900
620 T=QT:TU=0:SI=1
625 TU=TU+1
626 GOTO 630
627 INPUT#5, DA$
630 INPUT#5, DA$
635 IF DA$="1" THEN 627
640 IF DA$="2" THEN SI=2:TU=1:GOTO 627
650 IF DA$="3" THEN SI=1:T=T+1:TU=1
660 IF DA$="3" AND T=QT+5 THEN QT=QT+5:GOTO 820
665 IF DA$="3" THEN 627
670 ON C-1 GOTO 680,700,720
679 REM *** PARTICULAR ARTIST ***
680 FOR N5=1 TO N3
682 IF RIGHT$(DA$,AL(N5))=AR$(N5) THEN 730
685 NEXT N5
690 GOTO 625
699 REM *** PARTICULAR TUNE ***
700 FOR N5=1 TO N3
```

4 PROGRAMS

```
702 IF LEFT$(DA$,TL(N5))≃TU$(N5) THEN 730
705 NEXT N5
710 GOTO 625
719 REM *** PARTICULAR TUNE AND ARTIST ***
720 FOR N5=1 TO N3
721 REM [SPADE] IS SHIFTED "A"
722 IF DA$=TU$(N5)+"+"AR$(N5) THEN 730
724 NEXT N5
726 GOTO 625
728 REM [SPADE] IS SHIFTED "A"
730 FOR
        I=1 TO LEN(DA$): IF MID$(DA$, I, 1)="♠" THEN 750
740 NEXT
750 T$=LEFT$(DA$,(I-1)):R$=RIGHT$(DA$,(LEN(DA$)-I)):K2(N5)=K2(N5)+1
755 IF R≸<>"UN" THEN 760:REM [CRSR DOWN]
756 PRINT "M";T$;" BY AN UNKNOWN ARTIST"
757 GOTO 770
759 REM [CRSR DOWN]
760 PRINT "M"; T$; " BY "; R$
770 PRINT "IS TUNE #"; TU; "ON SIDE"; SI; "OF TAPE #"; T
775 IF PEEK(654)()1 THEN 780:REM [CRSR DOWN]
776 PRINT "XISEARCHING:
777 ON C-1 GOTO 685,705,724
779 REM [CRSR DOWN]
780 PRINT "MKEEP SEARCHING (Y/N) ?"
790 GET A$:IF A$="Y" THEN PRINT "MSEARCHING :":ON C-1 GOTO 685,705,724
800 IF A$<>"N" THEN 790
805 CLOSE 5: CLOSE 1
810 GOTO 150
820 REM *** GOING ON TO NEXT TAPE ***
825 CLOSE 5: CLOSE 1
830 GOTO 596
838 REM *** END OF FILES ***
839 REM [2 CRSR DOWN] [CRSR DOWN]
840 PRINT "XWLAST TAPE FILE SEARCHEDX"
841 FOR N4=1 TO N3
842 ON C-1 GOTO 843,845,847:REM [CRSR DOWN] ON NEXT THREE LINES
843 PRINT"N";K2(N4);"REFERENCES TO ";AR$(N4):PRINT "WERE FOUND":NEXT N4:GOTO 848
845 PRINT"%";K2(N4); "REFERENCES TO ";TU$(N4):PRINT "WERE FOUND":NEXT N4:GOTO 848
846 PRINT"%";K2(N4);"REFERENCES TO ";TU$(N4);" BY":PRINTAR$(N4);" WERE FOUND"
847 NEXT N4:REM [CRSR DOWN]
848 PRINT "MRUN TIME -";(INT((TI-TT)/60)/10)*10;" SECONDS"
849 IF PEEK(654)=1 THEN PRINT "WOREMOVE SCHIFT NOW": REMIDOWN][PINK][RVSON, OFF]
850 GOTO 460
```



The Solar **System** £3.50

Eaglesoft, 66 James St, Scarborough, North Yorks

restructured version of the program reviewed earlier in the

In effect, this is a reference guide to the solar system, allowing you to specify any planet, asteroid or meteorite, and receive brief details together with a graphic indication of size relative to the Earth.

Noting that such information becomes outdated rapidly, the author offers an update sheet to mail order customers, as and when new facts are discovered. Another welcome innovation is the facility to save the prog to Microdrive; major software houses please copy! In addition to its database function, you can also use a quiz section to test your knowledge. Whilst this is a noble effort by

an admittedly small company to minority interest service, and the program is well written in BASIC, the overall impression is amateurish. The colour facilities of the Spectrum could have been used to good effect without much extra effort. The picture screens could have pre-drawn using graphics packages. Factual information is very thin, certainly not enough to satisfy the enthusiast. D.M. satisfy the enthusiast.

instructions	90%
ease of use	100%
display	40%
value for money	80%

Cortes

L'Ensouleiado, Old Bracken-lands, Wigton, Cumbria CA7 9LA

A role-play program for history students aged 13 to 15 years or adventure games players. It recreates an episode in history where you take the part of the Spanish Committee of the Spanish Conquistador, Hernan Cortes, who, in 1519, set out to conquer the fabulously rich Aztec Empire of Montezuma. You are faced with the

decisions Cortes had to make. Choices made are matched against those made by Cortes, and more points are awarded if you are correct. Bonus points are given for "careful play" or "consistency", and at sudden equipment checks when you must know how much equipment you have, and for reports'

After visiting Montezuma on his island stronghold, fighting off an attack from the Governor of Cuba and building Vera Cruz, you return and eventually, after many bloody battles, end up as master of a ruined city full of stinking corpses and riddled with disease — but with no gold!

A useful revision to that period. Even I managed to raise my score from 36 to 83 out of 130. However, graphics, type and sound could be much improved.

instructions	80%
ease of use	85%
display	45%
value for money	35%



Stuart Henry's **Pop Quiz**

Bellflower, 6 Rosewood Ave, Greenford, Middx

A pleasing tune accompanies the loading screen depicting Stuart Henry, the DJ who was struck down by multiple sclerosis. Part of the price goes to the multiple sclerosis society.

We have the choice of one- or two-player game and are invited to enter name(s). The colourful screen quiz appears. accompanied by a mystery tune. There is a scoreboard have 60 bonus points at the start musical stave with six missing notes, and question at the

There are 756 questions, covering pop from the sixties to the present. If you answer correctly 10 points are added to your score and you can choose a note from the mystery tune. Correct notes give 10 points, appear on the stave and are sounded, whereas a wrong guess drops your bonus by 10 points. When your bonus runs out the game ends. When you complete the mystery tune any bonus left is added to your score, before the next round with its harder, longer mystery tune.

A great program - making good use of the Spectrum's potential in graphics and sound

instructions	80%
playability	75%
graphics	65%
value for money	80%

* * * *

1 12

Something for all tastes

Alien-zapping games are often slated for being mindless. This batch of games should please everyone — thinking games to sharpen your wits and teach you a few facts, and hard-core android blasters to keep the addicts happy

Space Command £5.95

Virgin Games, 61/63 Portobello Rd, London W11 3DD

case, Space Command comes The graphics are well done, with a very informative inlay though not of the highest card which tells you about the standard in terms of smoothness, game and its authors; a nice The action is very fast and

with a city, rotating radar and without joysticks. Sound is communications dish, your task adequate, and, if you haven't is to shoot down an almost had your fill of zap-kapow, you aliens. A force field protects the city but as the aliens crash into it, it gradually loses power, and alternating the city of it gradually loses power, and ultimately is only capable of protecting the populated areas. If you fail to protect the radar installation you lose a life. Succeed and you enter a new star

system.
Well presented, with facilities for keyboard and three different joystick protocols. You can watch the demo before sallying forth to do battle, choose your space-ship, and disarm the Presented in a standard cassette easier!

instructions	100%
playability	70%
graphics	85%
value for money	95%

Message from Andromeda £6.00

Interceptor Micros, Lindon House, The Green, Tadley,

You are the Captain of the space patrol cruiser Galaxy on a routine patrol — of what, we are not told. This adventure game starts with you receiving a distress signal from a previously

unknown planet.

After 18 attempts at keying in phrases — which taught me that the program does not live up to its promise that "command its promise that "command syntax" makes full use of all parts of speech — I entered "read message" and it appeared on screen! It would be easier if they listed acceptable words.

I landed on the planet

Andromeda and moved around freely through rooms and squares, seeing buttons, detonators, knives and metal bars. When I keyed in "Look at planet" I received the surprisingly humorous response
"I can't see a vine here"!

No scores appeared and there seemed no purpose to the game. I didn't feel compelled to push onwards, even with the offer of Help, Inventory, Look or the chance to Save in order to return later. I was quite happy to be shot and leave Andromeda to the

Fair use of graphics and no T.W.

instructions	65%
playability	609
graphics	45%
value for money	35%

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by the ASP Market Research Group

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- 1 Beach Head **Match Point** Sabre Wulf
- 4 Jet Set Willy
- Trashman Omega Race
- Scuba Dive
- 8 Son of Blagger 9 Atlc Atac Munch Mania
- **US Gold** Sinclair
- **Ultimate** Software **Projects** Oulcksliva
- Commodore Martech Alligata
- **Illtimate** Mastertronic
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- Spectrum (-) Spectrum (1)
- Spectrum (-) **CBM 64 (6)** CRM 64 (5)
- Spectrum (-) **CBM 64 (8)**
- Spectrum (-) **CBM 64 (10)**

NON-ARCADE

- Midnight
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- 3 Valhalla 4 Ouizmaster
- 5 Mastermind
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Compiled with the assistance of Britain's leading software distributors, including: Pinnacle, SDL, PCE, Websters, PCS and Software Centre.

SPECTRUM

- 1 Sabre Wulf 2 Match Point
- 3 Stop the Express 4 let Set Willy 5 Mugsy 6 Night Gunner
- 7 Scuba Dive
- 9 Atic Atac 10 Manic Miner
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COMMODORE 64

- 1 Snooker
- 2 Beachhead **3 BMX Racers**
- 4 Solo Flight 4 Solo Flight
- 5 Manic Miner 6 Orbitron 7 Stellar Wars
- **8 Harrier Attack** 9 Revelation 10 Hunchback
- Visions (6) U.S. Gold (2)
- Mastertronic (-) Centresoft (3) Centresoft (3)
- Software Projects (-) Mastertronic (-) Commodore (-)
- Commodore (-) Softek (10) Ocean (-)

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- 1 Hunchback
- 2 Cuthbert In Space 3 Chuckle Egg
- 4 Dragon Chess
- 5 Hungry Horace 6 Buzzard Balt
- 7 Space Shuttle Simulator
- 8 Kriegspiel
- 9 Mr Dig 10 Dungeon Raid
- Ocean (10) Microdeal (2)
- A & F (8) Oasis (5) Melbourne Hse (3) Microdeal (1)
- Microdeal (-) Beyond (-) Microdeal (6) Microdeal (-)

Quicksiiva (-)

Sinclair (9)

Sinclair (7)

Addictive Games (-)

Novus (1)

Novus (3)

Compiled by W. H. Smith and Websters. Figures in brackets are last week's positions.

MC-20

- 1 Computer War 2 Duck Shoot 3 Sub Commander
- 4 Flight 015 5 Tower of Evil
- 6 Tank Commander 7 Wizard and the Princess
- 8 Undermine 10 Snooker
- Creative Sparks (1) Mastertronic (9) Creative Sparks (-) Ferrantićralg (5) Creative Sparks (10) Creative Sparks (-) Melbourne House (7) Mastertronic (-)

Vision (4)

BBC

- 1 Spectipede 2 Overdrive
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72X839

- 1 Asteroids
- 2 Chess 1K 3 Flight Simulation 4 Football Manager
- 5 Krypton Ordeal 6 Planet Raider 7 Space Raiders 8 Walk the Plank
- Sinclair (6) Novus (4) 9 Scramble Oulcksliva (-) CRL (-) 10 Allen Rain

Make England nuclear-free blowing u Crui 55

Greenham Common women have frequently been in the news this year. You either love them or hate them. This game takes a lighthearted look at a serious matter.

The aim of the game is to steer your woman past the police cordon to reach the nuclear missile and destroy it. This is poetic licence, since in real life that's not what the resolute protesters of the peace camps have in mind.

You're a strong woman and can knock down policemen who aren't in the linked chain at the bottom of the screen. Once you reach the last line of defence, you have to find a gap to sneak through and get rid of the nuke.

How it works repeat key and GOSUB

instructions 12-18 print characters on screen 22-24 keyboard control 34-38 print more characters at random, start sound 40-46 create loop for scores 48-54 destroy missile

400-412 getting shot routine 450-455 out of lives, end of game 500-550 instructions

600-614 initialise variables and data

614-617 start game 620-626 win game

Variables

Y woman X police score

K steps taken

A gap in police line I speed of character

Z player left M player right

T time delay

you (more poetic licence, we hope). You start with three lives, so you're at an advantage over the real thing.

Take a humourous look at one of the more controversial issues of 1984.

Your life is at risk, since the

police won't hesitate to fire at

Hints on conversion These are the main POKEs which

the VIC uses.
36879 screen and border colour

30720 colour of characters 36878 sound volume

36874 bass sound

36875 middle ton gen

36876 high tone gen

36877 white noise gen
A\$ used instead of INKEY\$

FOR..NEXT pause routines

Here's a thorny subject: the presence of **US arms in Britain. Stephen Dommett** takes alighter look at the issue. Relax and see the funnier side

1 POKE650,255:GOSUB500 10 POKE36879,152

REM [18 CRSR DOWN][BLU]

14 Y=7

15 REM [2 CRSR UP][RVS ON][BLK]

DGRAM

```
16 A=INT(RND(1)*19+1):PRINTTAB(A)":TIME
17 REMITHORES
18 PRINT"N"
22 GETA$:IFA$="Z"THENY=Y-1
24 IFA$="M"THENY=Y+1
 29 REM [RED]
 30 PRINTTAB(Y)"#!"
 34 X=INT(RND(1)*420)+7680
35 POKEX+30720,6:POKEX,34
36 POKE36878,15:POKE36877,175:POKE36877,0
37 REM [CRSR UP]
38 PRINT"I
40 K=K+1: IFK=19THEN43
42 GOT022
43 IFS>29THEN620
44 IFY=ATHEN48
46 C=C+1:GOT0400
48 PRINTTAB(Y)": POKE36874, 217: FORT=1T0700: NEXT: GOT049
=0
51 S=S+1
54 FORT=1T03000:NEXT:GOT010
400 POKE36877, 220: FORL=15TO0STEP-1: POKE36878, L
404 FORM=1T0100:NEXTM
406 NEXTL
408 POKE36877,0:POKE36878,0
409 IFC>2THENG0T0450
410 PRINT"XXXXYOU'VE BEEN SHOT":PRINT"SCORE="S:POKE8155,34:POKE38875,2
411
    I=0:8=0:Y=0:K=0
412 FORT=1T02000:NEXT:GOT010
450 POKE36879,59:PRINT""
    REM [BLK]
452 PRINT"■YOU RUN OUT OF LIVES"
453 REM [5 CRSR DOWN] [4 CRSR RIGHT] [2 CRSR DOWN]
455 FORT=1T04000:NEXT:PRINT"0":POKE36879,27:END
499 REM [CLR][WHT]
500 POKE36879,8:PRINT"3#SR.DOMMETT JAN 1984"
501 REM [CRSR DOWN]
502 PRINT" MGREENHAM COMMON"
503 REM [CRSR DOWN]
504
    PRINT" MGET PAST POLICE CORDON"
506 PRINT"TO DESTROY 30 MISSILES"
    REM [2 CRSR DOWN][2 CRSR RIGHT]
507
508 PRINT"XXXXX=LEFT M=RIGHT"
509 PRINT"X DDDPLEASE WAIT"
550 FORT=1T03000
600 POKE51, 255: POKE52, 27: POKE55, 255: POKE56, 27: POKE36869, 255
602 FORJ=0T0511:X=PEEK(32768+J):POKE7168+J,X:NEXT
504 FORJ=0T031:READX:POKE7432+J,X:NEXT
606 DATA24,24,126,189,189,36,36,102
   DATA24, 152, 255, 61, 60, 36, 66, 195
607
608 DATA31,63,127,248,248,127,63,31
609 DATA255,255,255,129,255,255,255
611 POKE36879,8:PRINT""
612 Y=7712:X=7854:P=7844:R=7864
614 POKEY, 33
615 PRINT"3": PRINT"HIT SPACE BAR TO PLAY"
616 GETA$: IFA$○" "THEN616
617 IFA$=" "THENGOTO10
618 REM [BLK]
620 PRINT"∏":POKE36878,0:POKE36879,110:PRINT"≣WELL DONE YOU HAVE"
   PRINT"RID BRITAIN OF THE 30"
624 PRINT"CRUISE MISSILES."
625 REM [3 CRSR DOWN]
626 PRINT"XXXXYOU HAVE AVOIDED A
                                  NUCLEAR WAR. THE END!" END
```

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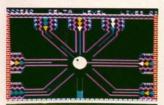


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