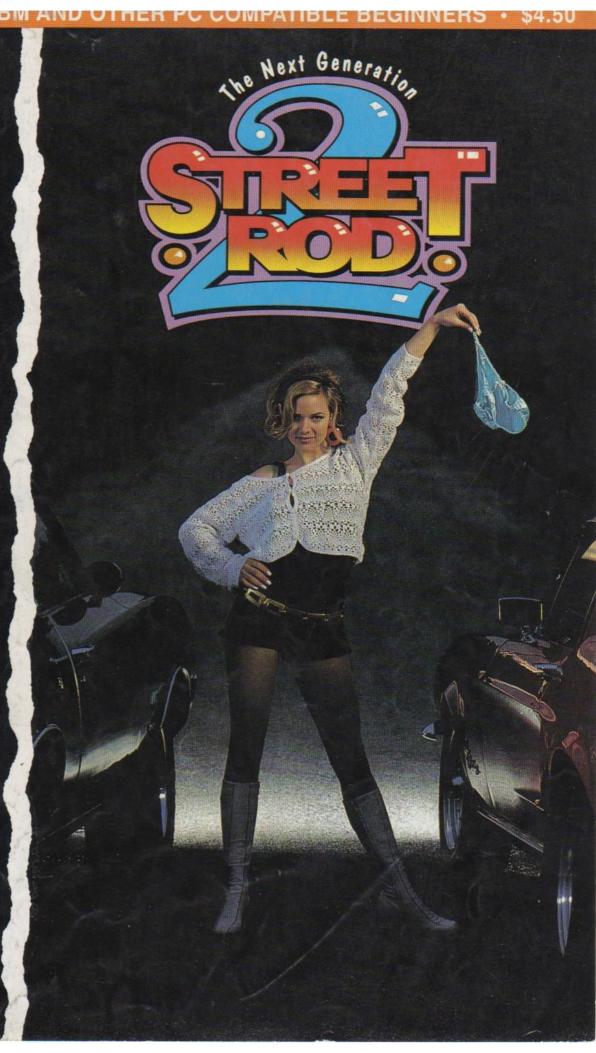
July 1991

Registered by Australia Post Publication No. VBP7017 National Library of Australia ISSN - 1035-9516







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All enquiries and contacts concerning this Publication should be made in the first instance by writing to The PC Mag, 641 High Street Road, Mount Waverley, Victoria 3149, Australia. Urgent matters can be telephoned through on (03) 803 9661.

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The subscription rate (for Australia) is \$45.00 for

12 issues, which includes postage. For overseas subscriptions to New Zealand, PNG, Solomon Islands or Vanuatu please add \$30 for airmail costs. Other overseas prices are available upon

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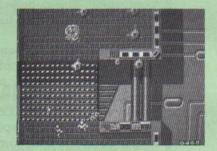
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• Front cover: Street Rod 2 from Electronic Arts reviewed next month.



• The revolutionary Star Cursor Analog LDR-501 PC joystick, reviewed on page 8



• Screen shot from Final Orbit, reviewed on Page 15.



• A mouse without a tail but it does have an infra red beam reviewed on Page 11

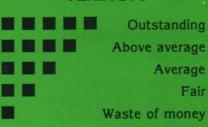
GAME PLAY

F-16 COMBAT PILOT

TOTAL RECALL

SWITCH BLADE

VERDICTS



F-16 COMBAT PILOT

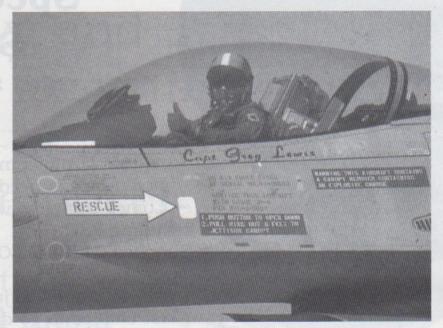
- Published by Digital Integration
 Available through The PC Mag
- Suitable for Amstrad 464, 664 and 6128
- Prices: Disk \$42.95, Tape \$32.95

Which product won the "Best Flight Simulator 1990" at the European Computer Leisure Awards last year? Yes, it was F-16 Combat Pilot from Digital Integration and when you see it you'll realise why.

Without even a glance at the manual I went straight into the 'quickstart' facility and crashed on take-off! I couldn't have done too much damage to the \$25 million fighter as I was allowed to

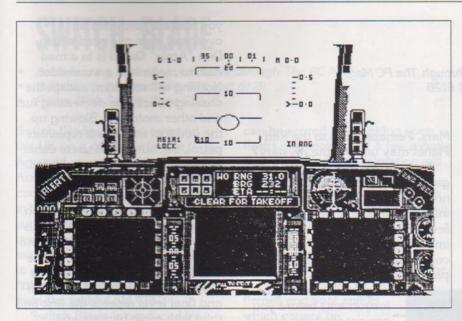
Pilot is a strategic flight simulator featuring a variety of training missions, active front line squadron activities, and finally, global conflict involving real-time interaction between aircraft, ground forces and the supporting infrastructure of military installations and essential services.

Although you have the ability to join any squadron, it is sensible to start at the beginning



try again. The second time I managed to take-off, performed a few rolls and dives - then crashed again! I should have realised that a program with a 100+ page manual is not going to let a joy rider like me get too far.

General Dynamic's F-16C Fighting Falcon is a traditional fighter plane and designed for close combat work such as like dog-fights or pin-point bombing raids; effectively a multi-role combat aircraft. F-16 Combat with mission practice and aircraft familiarisation in the Training Mission. You can then move on to air-to-air interception in the Scramble Mission, offensive counter-air operations in the Hammerblow Mission, interdictor strikes in the Deepstrike mission or battlefield close-air support in the Tankbuster Mission. You also have the opportunity to carry out reconnaissance in the Watchtower Mission. All these missions consist of completing assigned



objectives.

With all this experience under your belt (and you'll need it) you can tackle the final mission - Operation Conquest. It has a multi-mission scenario with an overall objective to force the enemy to surrender by reducing his fighting ability and morale. It's a sophisticated segment with different weather conditions, the passing of day and night and the deployment of mobile ground forces and tanks. And the enemy aren't exactly sitting back waiting for you!



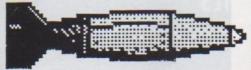
The F-16 can be armed with an array of deadly weapons; infrared, anti-radiation, laser guided missiles, heat-seeking Sidewinders and Amraam radarguided missiles. You can choose those you wish to take on a mission or select the automatic "crew's choice".

From within the cockpit, a variety of advanced electronic monitoring is conveniently displayed directly in front of your head by way of the HUD (Head

Up Display) and MFD (Multi Function Display). The Up Front Control Panel for navigation and communications is directly below with the rest of the instruments beside and below that. Switching on the HUD and MFD is simply a question of hitting a key and selecting suitable weapons is the same.



Enemy fighters will show as a dot on the radar screen. Because of all the electronic wizardry, all you have to do is to aim your plane in the direction of the oncoming enemy, select a an air-to-air missile and when the control panel indicates that the weapon has 'locked on', release it and get away fast.

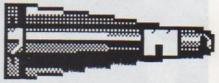


As with most flight simulators, taking off and flying always seems easier than landing. You can attempt to land without help,

but using the ILS (Instrument Landing System) makes life much easier. It helps you line up your approach to the runway and adjust any drift accordingly. This feature is particularly useful when you really don't want to down the plane after expending a great deal of effort in successfully completing a mission to that point. At the end of each mission a debriefing screen is displayed showing your 'kill rating' and how effective the overall mission was.



The manual is pretty comprehensive and, being generic, in a few places contains information on the more sophisticated 16- or 32-bit versions. But don't feel cheated the Amstrad 8-bit version is crammed to capacity with features and the bits that are omitted are not vital.



F-16 Combat Pilot is without doubt the best flight simulator around at the moment. The graphics are clear and, despite the internal speed of the CPC, the movement of the plane is remarkably smooth. The 'sim' really gives you a feeling of excitement when alarms fire up indicating a hostile activity ahead. It also gives you a good feeling of satisfaction when you land safely after a successful mission. Flight simulators are not everyone's cup of tea, nevertheless this one has to be recommended as a superb game.



35

TOTAL RECALL

- · Published by Ocean · Available through The PC Mag
- Suitable for Amstrad 464, 664 and 6128
- Prices: Disk \$39.95, Tape \$29.95

Arnold Schwarzenegger, who has probably had more computer games made of his films than anyone else, had another big hit last year in a film called Total Recall. If you didn't see it you can probably get the video by now, but in any case, the plot goes something like this.

Don Quaid (played by our hero

Mars. Perhaps a trip to the Red Planet may unravel the mystery?

Total Recall (the computer game) starts on Earth and may not run true to the film plot initially, eventually gets there a few levels on. The first level is important, for here you need to collect five objects (briefcase, passport, ticket to Mars, a

disguise and a surgical instrument) before you can proceed any further. There is a deal big. chunky sprite jumping and punching over various horizontallyscrolling floor levels, up elevators and through barriers and laser beams. Strategically placed switches will remove or add barriers and they have to be used in a particular order. This first level is not that easy and the difficulty is compounded by the fact that you only have one life to complete it - and complete it you must to be able to continue onto the next level.

The second level (if

you make it) provides an overhead view of a road where Don "Arnie" Quaid is in a mad rush to make it to a warehouse. Nothing will stop him, except the chasing police, the decreasing fuel and other motorists. Blowing up the odd fuel tanker will replenish petrol, but other road users either have to be dodged or eliminated. The third level is similar to the first, but more hectic, and provides the means to escape on a ship to Mars. The fourth level is a revamped version of the second driving segment, but again more difficult, and the destination this time is a rebel hide-out. The fifth and final level repeats the first and third with more barriers and switches, but oh, with just one life and so many baddies, many will find it extremely difficult. If you do manage to get past this and find the key to the reactor, you will enter the final battle with the Big Boss.

Total Recall is not for beginners and even hardened gamesters will need all their wits about them to succeed. The graphics are suitably designed to match the action and the sound is full of thump. As the first level is not easy, weaker players could give up in desperation, but once through it the challenge to continue increases (in proportion to the action). After all said and done, it's has great gameplay.

VERDICT





Arnie) pays a visit to Rekall Inc., a company who specialise in implanting memories into people's minds. He opts for a hero-adventurer type memory but in the process of implanting, his own memory is wiped. Now he doesn't know who he is - his past is fiction and his true identity shrouded in mystery. While all this confusion reigns, people want to assassinate him and he uncovers a plot to wreck the atmosphere on the recently colonised planet of



SWITCH BLADE

- Published by Gremlin Available through The PC Mag
- Suitable for Amstrad 464, 664 and 6128
- Prices: Disk \$42.95, Tape \$32.95

Switch Blade was first released in the UK on a cartridge for the Amstrad consoles (alas not sold in Australia) and by all accounts, this console-conversion is just as good in terms of clarity. This seems to suggest that all the Poms who invested in the console unit, in the expectation that they were going to get better graphics, are getting little more than you would expect from the faithful old CPC.

Switch Blade is produced by Gremlin and falls into the 'kickem-up' class. It stars Hiro, the last of the Bladeknights, a hi-tech warrior armed with stealth. cunning and a reprogrammable cyber-arm. But what happened to all the other Bladeknights you ask? They, along with the Undercity people of Thraxx, had been decimated by the evil Havoc since he shattered the Fireblade sword, the source of power on Thraxx. Hiro's job is to gather up all sixteen pieces of the sword and avenge the death of his people.

Hiro's movements are controlled through the joystick as is his combat power. The longer the fire button button is held before release determines the amount of power to be used. The game starts on the surface where a few points

can be scored by breaking open flasks or knocking off a few robotic Spikelice. Further exploration will take you to the first of many rooms which, before you enter, is in darkness so that you cannot tell what is in store for you. Once inside, someone conveniently switches on the light and it remains lit for the rest of the game.

Hazards consist of flames and floor spikes which cannot be removed - you just have to find a way around or over them. The baddies (and there are many of them) add points to your score if destroyed. The bigger the baddie to remove, the bigger the points. Havoc is the archvillain and can only be destroyed with a reassembled Fireblade, but will get you 50,000 points plus a bonus of 20,000 points for each life remaining. You have five lives at the start of the game and losing a life (from lack of vitality) is indicated with by a star being released from Hiro.

Further exploring will

uncover bonuses in various guises, hidden rooms, more baddies, extra weaponry, shields and, of course, fragments of the Fireblade. Make no mistake though, despite the fact that progress

before it finally gives up all its secrets.

It's not colourful, but then it doesn't matter as most of the action takes place below the surface of Thraxx. The screen 'flips' as more of the area is

revealed and the graphics remain

appears to be quick, Switchblade

will take a long time to explore

smooth and well animated throughout the game. On the minus side, the documentation tells you to type Run""disc instead of Run"disc (sigh... do they ever get it right? - Ed), and I couldn't get the music switched on. The sound effects worked though.

Switchblade is a quality game, totally addictive with plenty of fun and lasting enjoyment. It's a must for all CPC owners.

VERDICT ...



AMSTRAD CPC

Guide to M/code - 6

More on interrupts, chips, controllers and loops.

asic machine code this month finishes off on interrupts with a real time clock that works with Protext. The basic program (on the next page) should be saved onto your Protext disc as DISC.2BAS. This replaces the original DISC2.BAS program as supplied by Arnor. If you have customised your loader then alter this program to suit. The assembly listing (opposite) is also given so you can study how the program works.

```
The Protext clock assembly listing
         stream_select equ &bbb4
         set_cursor equ &bb75
         kl_init_event equ &BCEF
         kl add ticker equ &BCE9
         kl_del_ticker equ &BCEC
         event_class equ &81
         org &5100
.add_ticker
         ld hl.eventblock
         ld b, event_class
         ld de, routine
call kl_init_event
        ld hl, tickblock
                             ;initial count 1 second
         1d de,50
        1d bc,50
                             :recharge count 1 second
call kl add ticker
.tickblock
        ds 6
                            ;define 6 bytes of workspace
.eventblock
        ds 7
                             ;define 7 bytes of workspace
del ticker
        ld hl, tickblock
        call kl_del_ticker
;workspace to store some bits
.stream
       ds 1
.swap2 db &18
                            control code invert inks
. secs
        db "0"."9"
                            :two nums as ascii chars
        db *.*
. mins
        db "0". "0"
                            ;two nums as ascii chars
        db ":"
       db "0", "0"
                            :two nums as ascii chars
.swap1
       db &18
                            control code invert inks
.routine
       ld hl.secs
                            :point to secs Isb
       inc (hi)
                            :secs=secs+1
       ld a, (hl)
       cp 43a
                            ;if a(=9 them goto moinc
       ir c. noinc
       ld a. "0"
                                                                li
       1d (h1).a
                            :secs lsb=0
```

inc hi

ord	inc (hl)	:inc secs #sb
	ld a, (hl)	, Inc secs #50
	cp &36	
	jr c.noinc	
	ld a, "8"	
	ld (hl),a	;zero secs msb
	inc hi	12010 3003 230
	inc hl	;mins lsb
	inc (hl)	:mins=mins+1
	ld a, (hl)	Itali azala igra
	ср 63а	
	ir c.noinc	
	ld a, "0"	
	ld (hl),a	;zero mins Isb
	inc hi	;mins msb
	inc (hl)	;mins msb
	ld a, (hl)	ILMER TERMO SIL
	cp &36	
	jr c, noinc	
	ld a, "0"	
	ld (hl),a	;zero mins msb
	inc hl	MANAGE ST 92
	inc hi	
	inc (hl)	;hrs=hrs+1
	ld a, (hl)	
	ср &За	
	jr c, noinc	
	ld a, "0"	
	ld (hl),a	;zero mins msb
	inc hl	
	inc (hl)	
oinc		
	ld a,7	
	call stream_select	
		;save current stream
	ld h, 79	
	ld 1,1	
	call set_cursor	
	ld hl.swap1	
	ld b, 10	
	;Display the time o	n screen
spla	ıy	
	ld a, (hl)	
	call &bbSa	
	dec hi	
	djnz display	
	ld a, (stream)	
	call stream select	
	Call Stream Select	
	ret	
it		
it		

```
1 'Protext Clock Listing
 2 'TAU - July 1991
 3 'Save on Protext disc as DISC2.BAS
 4 'This will replace the original file
 10 MEMORY & SEFF: GOSUB 200
 20 INPUT "Hours ";hrs$: INPUT"Minutes ";a$: INPUT"Seconds ";
 secs$
30 IF LEN(hrs$)=1 THEN hsr$="0"+hrs$
 40 IF LEN(m$)=1 THEN m$="0"+m$
50 IF LEN(secs$)=1 THEN sec$="0"+m$
60 POKE &5F31,ASC(LEFT$(secs$,2)):POKE &5F30,ASC(RIGHT$(se
 C5$,1))
70 POKE &5F34,ASC(LEFT$(m$,2)):POKE &5F33,ASC(RIGHT$(m$,1)
80 POKE &5F37,ASC(LEFT$(hrs$,2)):POKE &5F36,ASC(RIGHT$(hrs
$.1))
90 CALL &5F00: CLOSEIN: :P: END
200 addr=&5F00:sum=0:chk=0
210 FOR 1n=10000 TO 10180 STEP 10
220 FOR x=1 TO 8: READ byte$
230 sum=sum+VAL("&"+byte$)
240 POKE addr, VAL("&"+byte$)
260 READ chk: IF sum<>chk THEN PRINT"Checksum error in line
 "; In: END
270 chk=0:sum=0:NEXT
280 RETURN
10000 DATA 21,1e,5f,06,81,11,39,5f,462
10010 DATA cd,ef,bc,21,18,5f,11,32,851
10020 DATA 00,01,32,00,cd,e9,bc,c9,878
10030 DATA 00,00,00,00,00,00,00,00,00,0
10040 DATA 00,00,00,00,00,21,18,5f,152
10050 DATA cd,ec,bc,c9,00,00,00,18,854
10060 DATA 30,30,3a,30,30,3a,30,30,404
10070 DATA 18,21,30,5f,34,7e,fe,3a,690
10080 DATA 38,2f,3e,30,77,23,34,7e,545
10090 DATA fe,36,38,25,3e,30,77,23,665
10100 DATA 23,34,7e,fe,3a,38,1a,3e,669
10110 DATA 30,77,23,34,7e,fe,36,38,744
10120 DATA 10,3e,30,77,23,23,34,7e,493
10130 DATA fe,3a,38,05,3e,30,77,23,637
10140 DATA 34,3e,07,cd,b4,bb,32,2e,789
10150 DATA 5f,26,46,2e,01,cd,75,bb,759
10160 DATA 21,38,5f,06,0a,7e,cd,5a,621
10170 DATA bb,2b,10,f9,3a,2e,5f,cd,899
```

ERROR ROUTINE UPDATE

10180 DATA 64,66,c9,00,00,00,00,00,568

I managed to get hold of a CPC664 recently and I found that the error routine in the Basic rom of a 664 is at &CB58 and works in the same way as the error routine in a CPC6128 which is at &CB55.

INS AND OUTS

Using the out command is not particularly difficult. You just need to have read the Advanced User Guide (just \$9.95 + \$1 postage from Strategy Publications). Peripheral chips are physically outside of the z80, so information is passed via the IN and OUT commands. All you need to know are the port addresses of the chips with which you want to communicate, and the registers in the chip that you want to read or write.

THE 8255 PPI

This chip can be thought of as having 3 ports which are referred to as ports A, B and C. The printer busy signal is available from B which is connected at address &F500. You can check to see if your printer is connected and on line, by reading a byte from port B. To do this simply type a=INP(&F500):PRINT BIN\$(a,8). You will see a string of ones and zeros printed on screen and it is bit 6, the second number from the left, that tells you if the printer is busy or not. 1 means busy 0 means ready. So it is quite easy to include a line in any program (Basic or machine code) which checks to see if the printer is ready or not.

The cassette motor can be switched on and off via bit 4 of port C which sits at address &F600. This time it is necessary to write data and the OUT command is used. OUT &F600, &x1000 will switch the cassette motor on. Setting bit 4 to zero will turn it off again eg. OUT &F600.0

THE CRTC 6845

CRTC stands for Cathode Ray Tube Controller. You can do all sorts of interesting things by writing directly to its registers. This is done in two stages. First write to the chip saying which register you want to change, then send the actual data.

Register 1, for example, contains the number of characters displayed horizontally, normally 40 for any mode. To change to, say 20 type OUT &BC00,1:OUT &BD00,20. Register 6 has the number of characters displayed vertically. This is normally 25. To change it to say 23, first set the register you wish to change with OUT &BC00,6, then send the actual data with OUT &BD00,23. Put things back to normal with OUT &BC00,6:OUT &BD00,25. It looks good in a loop.

```
10 FOR a=25 to 0 STEP -1
20 OUT &BCDO, 6: OUT &BDDO, a
30 FOR delay=1 to 50:NEXT:NEXT
40 CALL &BB18: 'press any key
50 FOR a=0 to 25
```

60 OUT &BCOO, 6: OUT &BDOO, a

70 FOR delay=1 to 50:NEXT:NEXT

Now try to combine both ideas with two loops. More on this next time.

Grid Warrior

A multi-level game to test even the most quick witted gamesters.

ere's a game to keep you on your toes, or to be more precise, on your keyboard. The screen is made up of a grid consisting of 19 x 38 squares (722 squares). The entire grid is surrounded by a force field containing fatal laser beams, so it must be avoided at all costs. Within the grid are a number of pillars, also to be avoided, and randomly positioned power pods.

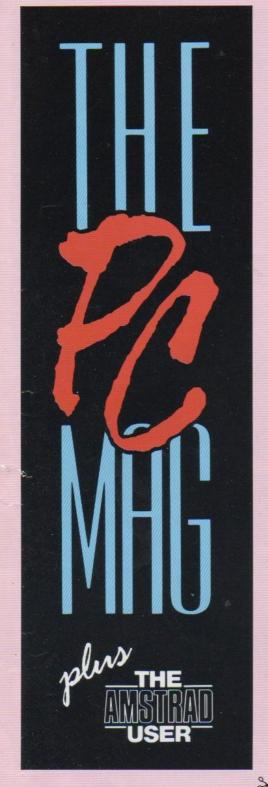
All the pods have to be collected before the game moves on to the next level. If you manage to get a high score, the game will record it.

Funnily enough, Grid Warrior is harder to play on a 464 then a 6128. This is because the program allows you to cross over (or back track) a route already taken on a 6128 whilst on the 464 it is not allowed. More experienced programmers may be able to work out why.

```
10 'GRID WARRIDR (v1) Copyright Steve Anderson
20 '
100 REM START SCREEN
110 MODE 1
120 INK 1,20
130 INK 0.0
140 INK 2,2
150 INK 3,6,24
160 PAPER 0
170 BORDER 0
180 CLS
190 PEN 1
200 LOCATE 15,1:PRINT"GRID WARRIOR
218 PEN 2
220 LOCATE 15,2:PRINT"--
240 LOCATE 8,10: PRINT"A=UP, Z=DOWN, O=LEFT, P=RIGHT
250 LOCATE 15,12: PRINT"OR JOYSTICK"
260 PEN 2
270 LOCATE 7.18: PRINT "PRESS SPACE OR FIRE TO PLAY"
280 IF INKEY (47) = 0 THEN 310
290 IF INKEY (76) = 0 THEN 310
300 GOTO 280
310 h=0
320 REM RESTORE DATA AND SET UP U.D.C'S
330 RESTORE
340 SYMBOL AFTER 240
350 SYMBOL 240,192,192,254,245,245,254,192,192
360 SYMBOL 241,3,3,127,175,175,127,3,3
370 SYMBOL 242,24,36,60,36,60,60,255,255
380 SYMBOL 243,255,255,60,60,36,60,36,24
390 SYMBOL 244,255,129,129,129,129,129,129,255
400 SYMBOL 245,255,153,189,153,153,189,153,255
410 REM POKE MACHINE CODE IN PLACE
420 FOR f=30000 TO 30009
430 READ byte
440 POKE f, byte
450 NEXT
460 FOR f=32000 TO 32022
470 READ byte
480 POKE f, byte
490 NEXT
500 REM SET UP $ VARIABLES
510 a$=STRING$ (40,CHR$ (127))
520 b$=CHR$(127)+STRING$(38,CHR$(244))+CHR$(127)
530 5=0:1=3
540 PEN 1
550 CLS
560 PRINT as:
570 FOR f=2 TO 20
580 PRINT b$:
590 NEXT
```

600 PRINT as:

610 FOR f=1 TO 10 1070 INK 2,6,2 620 LOCATE INT(RND*37)+2, INT(RND*12)+2:PRINT CHR\$(127)+CHR 1880 LOCATE x,y:PEN 2:PRINT CHR\$(238) \$(127) 1090 ENT 1,200,10,2:SOUND 2,300,400,5,0,1 630 LOCATE INT(RND*36)+2, INT(RND*3)+16: PRINT CHR\$(127)+CHR 1100 1=1-1 1110 IF 1=0 THEN 1220 640 NEXT 1120 PEN 1 650 PEN 3 1130 FOR F=1 TO 50: CALL 32000: NEXT 660 IF XE=34 AND YE=10 THEN RESTORE 1040 1140 CLS 670 FOR f=1 TO 6 1150 IF L>1 THEN LOCATE 10,13:PRINT L;" WARRIORS LEFT" 680 READ xe, ye 1160 IF L=1 THEN LOCATE 10,13:PRINT L;" WARRIOR LEFT" 690 LOCATE xe, ye: PRINT CHR\$ (245); 1170 LOCATE 1,1 700 NEXT 1180 FOR F=1 TO 3000:NEXT 718 flag=0 1190 INK 2,2 720 x=20: v=15 1200 GOTO 560 730 count=0 1210 REM DEATH ROUTINE 740 1a\$=CHR\$(242) 1220 CLS 750 LOCATE 1,22:PEN 1:PRINT"SCORE=":LOCATE 13,22:PRINT"HIG 1230 PEN 1 H=":LOCATE 24,22:PRINT"WARRIORS=" 1240 LOCATE 5,10:PRINT"YOU FAILED TO ESCAPE" 760 REM MAIN LOOP 1250 LOCATE 10,12:PRINT"YOU SCORED";s 770 IF INKEY(27)=0 OR INKEY(75)=0 THEN las=CHR\$(240) 1260 IF s>h THEN LOCATE 10,14:PRINT"NEW HIGHEST":h=s 780 IF INKEY(34)=0 OR INKEY(74)=0 THEN la*=CHR\$(241) 1270 LOCATE 5,16:PRINT"PRESS SPACE TO PLAY AGAIN" 790 IF INKEY(69)=0 OR INKEY(72)=0 THEN la\$=CHR\$(242) 1280 WHILE INKEY (47) <>0 800 IF INKEY(71)=0 OR INKEY(73)=0 THEN la\$=CHR\$(243) 1298 WEND 810 x2=x:y2=y 1300 INK 2,2 820 IF la\$=CHR\$(240) THEN x=x+1 1310 GOTO 330 830 IF la\$=CHR\$(241) THEN x=x-1 1320 REM NEXT BOARD 840 IF la\$=CHR\$ (242) THEN y=y-1 1330 FOR f=500 TO 100 STEP -4: SOUND 3,f,2,5: NEXT 850 IF la\$=CHR\$(243) THEN y=y+1 1340 s=s+100 860 LOCATE x,y 1350 CLS 870 CALL 30000 1360 IF 5>2000 THEN 1410 880 IF PEEK(31000)=127 OR PEEK(31000)=143 THEN flag=1 ELSE 1370 LOCATE 10,13:PEN 1:PRINT"TRANSPORTED TO NEXT BOARD" 1380 FOR F=1 TO 1000: NEXT 890 IF PEEK (31000) = 245 THEN count = count +1: SOUND 2,100,10,6 1390 60T0 540 :s=s+10:IF count=6 THEN flag=2 1400 REM ESCAPED 900 PEN 2: PRINT 1a\$ 1410 PEN 1 910 LOCATE x2, y2: PRINT CHR\$ (143) 1420 LOCATE 1,13:PRINT STRING\$(40,CHR\$(244)); 920 LOCATE 7,22:PEN 1:PRINT s 1430 LOCATE 18,5:PRINT" YOU'VE ESCAPED THE POWER GRID" 930 LOCATE 18,22: PRINT h 1440 LOCATE 36,11:PRINT"EXIT" 940 LOCATE 33,22:PRINT 1 1450 PEN 2 950 IF flag=1 THEN 1070 1460 FOR F=1 TO 39 960 IF flag=2 THEN 1330 1470 LOCATE F,13: PRINT CHR\$ (143)+CHR\$ (240) 970 SOUND 1, (x*20),2,5 1480 SOUND 1,F*10,2,3:SOUND 2,F*20,2,3:SOUND 3,F*15,2,3 980 IF s>1000 AND zx=0 THEN 1=1+1:zx=1:ENT 3,20,-5,5:SOUND 1490 FOR 6=1 TO 100: NEXT 2,150,100,7,0,3 1500 NEXT 990 GOTO 770 1510 FOR F=1 TO 2000:NEXT:CLS:PEN 1:GOTO 1250 1000 REM MACHINE DATA 1010 DATA &F5,&CD,&68,&BB,&21,&18,&79,&77,&F1,&C9 1020 DATA &F5,&C5,&D5,&E5,&06,&01,&3E,&00,&CD,&4D,&BC,&06, &00,&3E,&00,&CD,&4D,&BC,&E1,&D1,&C1,&F1,&C9 1030 REM CRYSTAL DATA 1040 DATA 10,3,30,10,25,5,38,14,19,14,11,13 1050 DATA 23,5,14,17,2,15,11,4,35,6,34,10 1060 REM CRASH



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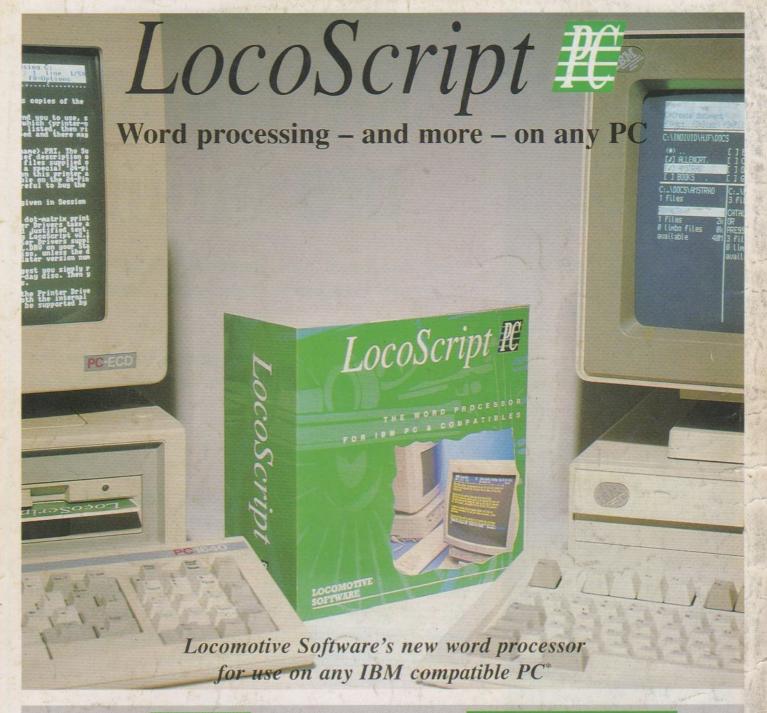
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