

EDITOR'S COMMENTS

Here we are again, into the cold and dark nights with Christmas looming closer and closer everyday.

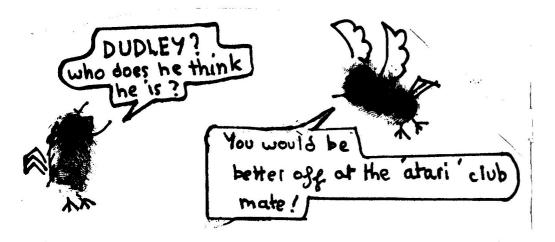
Well this issue is packed with thing's for you to try over the Christmas hol's. And the tape is better than ever. We have such thing's as 'Damson in Distress', thankyou Paul.

It's money grabbing time again! We wish to take your hard earned money off you. This will be £3:00 for 4 magazines and 2 tapes.

Please may we have more entries to the "Name That Bird" competition. The poor thing hasn't been christened and it's getting feed up with being called birdie. As Huw is the only entrant with 'Dudley', we need something a little more original (no offence intended Huw).

The next meeting will be on the 11th January 1987. At Paul's house at 2:30pm

Well bye for now see you in the new year.



REVIEW

DAMSEL IN DISTRESS: is an absolutly brilliant game. Probably the best game on the market for the ORIC. It is a platform game in which you must try to rescue ANNA (a scientist) since she has got lost in a mine. The story of how she got lost is shown in a superb 'Strip Cartoon' displayed while the game is loading. The game uses smooth 'cartoon' graphics backed up by a 4-track rendition of New Life by Depeche Mode. The twenty screens are varied and very colourful.

GRAPHICS....: *****
SOUND.....: *****
ORIGINALITY..: ****
ADDICTIVENESS: *****

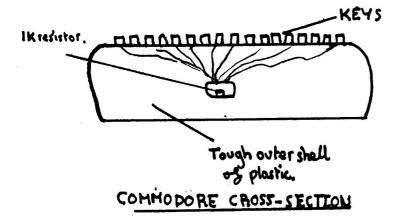
OUERALL....: ***** (*)

CHRISTMAS WITH YOUR ORIC

Oric's generally enjoy christmas. It is a time to celebrate what good computers they are. But there are a few points to remember.

Although the user may be boozing away NONE must be given to an ORIC or strange results may appear (it doesn't matter if it is a CBM 64 or spectrum, they are drunk enough anyway). If the user has been boozing, a fate may befall ATMOS computers, for when unsobber they may look they may look like christmas puddings with raisens in. So remember not to put it in brandy and light it. Once again this

precaution need not be taken with commodures because their tough outer shell of plastic will protect it from the flames.



When having a new ORIC (ie an atmos) ORIC-1's tend to feel neglected. If this happens please contact the chairman of the ROYAL SOCIETY for NEGLECTED ORIC's on 38426346236 You will then be given a brochure of things to do to cheer it up (watch out my ORIC-1).

Also you must not subject your ORIC to articles entitling themselves 'Christmas with your ORIC' which are Just trying to be funny.

To end on a happy note type in this complecated program:

10 PRINT"MERRY CHRISTMAS TO ALL ORIC's"

Huw .

THE ALIENS ARE COMING TO EARTH!

TYPE IT IN.

KEYS ARE..CTRL-C = STOP DOMINATION

- 0 POKE#26A, 10:PAPER0:INKZ
- 2 CLS
- 5 GOTO100
- 10 PAPER0: INKZ
- 20 FORN=46336T047087STEP1
- 25 RESTORE
- 30 FORA=NTON+Z
- 40 READX
- 50 POKEA,X
- 60 NEXTA, N
- 65 CALL#F8D0'#F42E ON ORIC-1
- 70 DATA0,31,21,31,4,31,4,10
- 100 FORN=48001TO49119STEP2
- 110 RA=INT(RND(1)*125):IFRA(32THEN110
- 120 IFRA>125THEN110
- 130 POKEN, RA
- 140 NEXTN
- 200 GOTO10

Huw

This program is designed to demonstrate how it is possible to move an object smoothly (pixel by pixel) even on the TEXT screen. The technique used by this program has been used by software companys like IJK (with Damsel in distress or invaders).

```
1 CLS
2 FORN=1TO6:READA,B:NEXT
3 GOSLIB500
4 RESTORE
5 FORX=2T033
10 FORN=1T06
20 READA, B
25 G$=" "+CHR$(A)+CHR$(B)
30 PLOTX, 12, G$
50 NEXT
60 RESTORE
70 NEXT
80 PLOTX,12," "
90 END
100 DATA65,32,66,67,68,69,70,71,72,73,7
4,25
500 FORN=46600T046687
510 READA
520 POKEN, A
530 NEXT
540 RETURN
600 DATA0, 12, 30, 63, 63, 30, 12, 0
610 DATA0,6,15,31,31,15,6,0
620 DATA0,0,0,32,32,0,0,0
630 DATA0,3,7,15,15,7,3,0
640 DATA0,0,32,48,48,32,0,0
650 DATA0,1,3,7,7,3,1,0
660 DATA0,32,48,56,56,48,32,0
670 DATA0,0,1,3,3,1,0,0
680 DATA0,48,56,60,60,56,48,0
690 DATA0,0,0,1,1,0,0,0
 700 DATA0,24,60,62,62,60,24,0
```

PLANETS will print a display of 3D, random positioned, random sized planets on the HIRES screen.

```
100 REM PLANETS
 110 HIRES
 120 REPEAT
130 Z=INT(RND(1)*240):T=INT(RND(1)*200)
 140 S_{x}=RND(1)*25
150 SS%=S**S*
160 FORY=-S*TOS*
170 IFY+T<00RY+T>199THEN NEXTY:UNTILFAL
SE
180 X \approx SQR(ABS(SS \times -Y * Y))
190 X2=2*X*
200 FOR I = -Xx TO Xx
210 IF(RND(1)*X2)-XX<ITHENFX=1ELSEFX=0
220 C=I+8:U=Y+T
230 IFC<160RC>2390RU<00RU>199THEN250
240 CURSETC, U, Fx
250 NEXTI, Y
260 INKINT(RND(1)*7)+1
270 LINITH FALSE
```

INVADORS

---- This game by Paul and Lloyd follows similar lines to the oid unfavourite game. Bombs are fired down at you from above and you may fire rockets up to the enemy. There are 6 to shoot the keys are:-

H .. LEFT J .. RIGHT A .. FIRE

> 50 8=INT(RND(1)*36)+2:Y-7 100 CLS INU 120 INK 1:PAPER 0:PRINT" H < J > @ \" ADOR": PRINT" 140 GETA\$: CLS:X-2:POKE#24E,6:POKE#24F, 1 160 PLOT0,4," (*) (*) (*) (*) (*) (*) ":PLOT1,4,2 170 PLOT0,6," /\/\/\/\/\/\/\/\/\/\/\ /\/\/\/\/\" \FLOT1,6,4

```
180 REPEAT
195 PLOTE, Y, 32: Y=Y+1: IFY=21THENPULL:GOT
01000
197 PLOTE, Y, ''
 200 IFM=6THENG=1:PULL:GOT0380
 220 US=KEYS
 240 IF U$="H" THENX=X-1:PLOTX+3,21," "
 260 IF Us="J"THENX=X+1:PLOTX-1,21," "
 280 IFX<2THENX=2
 300 IFX>35THENX=35
 320 PLOT X,21,"(*)"
 340 IF U$="A" THEN PULL:GOT0440
 380 IFG=1 THEN PLOTIO, 10, "WELL DONE" : EN
\Box
 400 INTIL FALSE
 420 DOKE#24E, #105:END
 440 JFSCRN(X+1,6)=32THEN445
 443 SCT0600
 445 FORN=19T05STEP-2:PLOTX+1,N+2,32:PLO
TX+1,N,";"
 450 NEXT:PLOTX+1,5,32
 460 IFSCRN(X+1,4)=32THENGOT0180
 480 IFSCRN(X+1,4)=42THENEXPLODE:PLOTX,4
," :M=M+1:GOTO180
 500 SHOOT; PLOTX+1,4,32
 520 GCT0180
 600 FORN-19T07STEP-2:PLOTX+1,N+2,32:PLO
 TX+1,N,";":SHOOT
 612 PLOTX+1,6,32:PLOTX+1,19,32:GOT0180
 1000 IFSCRN(2,21)=32THENE=INT(RND(1)*36
 1+2:Y~Z:GOT0180
 1010 ZAP:SHOOT:CLS:FORN=0T07:PAPERN:WAI
 T9:NFXT:END
```

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This program - 'Wool' will draw a picture of a 'Ba'' of Wool' on the HIRES screen. The picture is generated using SIN and COS curves, and although does take a little while to run, is very effective.

```
100 DEFFNR(%)=INT(%-((%-INT(%))).49999)
110 REM BALL OF WOOL
120 HIRES
130 Sx=50
 140 CURSET0,0,3
150 FORA=0T0125.7STEP0.1
160 X=(S**SIN(A))+120:Y=(S**COS(A)*SIN(
A*0.95))+100
170 \times FNR(X) : Y = FNR(Y)
 180 IFA=0THENCURSETX,Y,1:GOTO200
 190 DRAWX-OX, Y-OY, 1
 200 DX=X:OY=Y
 210 NEXT
 0 TW=100000
 5 POKE#26A, 10
 10 PAPERO: INKZ
 20 CLS
 30 PRINTCHR$(4):PRINT" "CHR$(27);"J
 REACTIONS TESTER"
 40 PRINTCHR$(4)
 45 PRINT:PRINT:PRINT:PRINT
 50 PRINT" >Press RETURN when the screen
 changes"
 70 PRINT:PRINT" > PRESS ESCAPE"
  80 REPEAT:GETA$:UNTILASC(A$)=27
 110 PRINT: PRINT" PRESS DELETE TO START"
 :REPEAT:GETA$:UNTILASC(A$)=127
 115 WAIT40
  120 CLS
  140 FORA=1TOINT(RND(1)*1000):
 145 IFPEEK(520)<>56THENPRINT:PRINT" CHE
 AT":WAIT60:GOT010
 150 NEXT
  155 PAPERZ:WAIT2:PAPER@
 160 PING:DOKE630,10000:REPEAT:GETX$;UNT
 IIASC(X$)=13
  120 TI=10000-DEEK(630)
```

DØ

A) LOR

IDC Jocket

GND

PRESET VARIABLE

BASISTOR

(ION)

RF"

180 CLS:PRINT:PRINT" YOU TOOK "TI/100" SECONDS TO PRESS "

185 PRINT:PRINT" RETURN"

190 PLOT8, 26, "PRESS SHIFT"

191 REPEAT: UNTILPEEK (#209)=1620RPEEK (#2

09)=164

192 CLS

195 IFTI/100KTWTHENTW=TI/100:PRINT:50TO 200

196 GOT0210

200 INPUT" PLEASE ENTER YOUR NAME"; NA\$ 205 PRINT:PRINT:PRINT" PRESS ESCAPE":RE PEAT:GETA\$:UNTILASC(A\$)=22

210 CLS:PRINT:PRINT" THE QUICKEST REAC TIONS ARE"

220 PRINT:PRINTNA\$"'s WITH "TW" SECONDS

230 PRINT: PRINT: PRINT" PRESS SPACE" : REPE AT:GETA\$:UNTILA\$=" "

240 GOTO10 Reactions is quite a long program but is based simply on the ORIC's own clock. A clock is an electronic device inside a computer which syncronises the computers different operations. It counts in hundredths of seconds coming down from 65535, when it reachs

0 it starts again.

This is what is used in Reactions, because the only command to do with time is wait, which would not work obulously.

The program counts up to a random number then pings and flashes the screen, and sets the clock to 10000, this keeps counting down while your brain tells you to press return. When return is pressed it remembers the number in the clock. 10000-this number's how lone it took you in 100th's!

PROJECTS =======

Menu Selecter:

This device allows you to select an option form a menu. It looks like a light pen, and uses a similar circuit to the one you met last time. The circuit diagram is shown below:

The only additional component is a 'preset'. This is similar to a resitor, but its resistance may be varied. The LDR may be fitted into an old pen barrel or a cardboard tube etc.. A typical program is shown below.

0 PAPER0: INK7 1 POKE#303,0

5 CLS

10 PLOT5, 2, "ZAP..."

20 PLOT5, 4, "PING.."

30 PLOT5,6, "SHOOT."

40 PLOT5,8,"END..."

50 FORN=1T04

60 PLOT13, N*2, 127: WAIT2

20 IFPFFK(#301)=127THEN100

80 PLOT13, N*2, 32: NEXT

90 GOT050

100 POKE#303,255:PLOT13,N*2,32

110 ON N GOSLB200,300,400,500

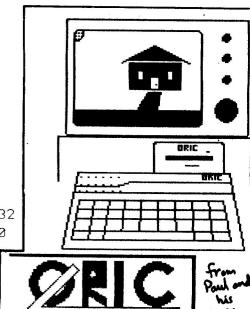
120 POKE#303,0:GOTO50

200 ZAP: RETURN

300 PING: RETURN

400 SHOOT: RETURN

500 POP:END



Line 1 sets the printer port to OUTPUT mode. Kill yourself if you don't understand line 5, lines 10-40 print the menu options.

Line 60 plots a forground square, line 70 reads the printer port and if it thinks there is a signal, if goes off to line 100 (presuming the selector is on the option with the white square, and line 80 deletes the white square. Line 100 swiches the port to output, neccesary if you are using sound. Line 110 sends the program off to 200,300,400 or 500 depending on whether N=1,2,3 or 4. If the program does not work, try:

- 1) Changing the value of the preset.
- 2) If this fails, try altering the brightness etc. of you T.V./Moniter.

HELP & HINTS

MAKING A NOISE

Last time we talkedabout making a noise, this time we will be talking about making a noise.

There is a very useful command called MUSIC. TRY THIS:-

MUSIC 1,3,1,15 then turn it off with MUSIC 1.3 1,0 As with the SOUND command the first number is the sound channel. The second number is the octave, Ø-lowest 6-highest. The 3rd number is the note in the octave starting at 1 and going up in semi-tones to 12. The last number is the volume, as in the SOUND command. TRY:-MUSIC 1,3,2,15

Then switch the sound off.
The note sound have been one
semi-tones higher than the last.

Try more of these from your head until you fully understand.

After a that boring stuff we will get onto the more exciting parts now!

You can try making programs up from

You can try making programs up from what you know now. TRY:-

10 FORN=1T012

20 WAIT20

· 30 MUSIC1,3,N,N

40 NEXTN

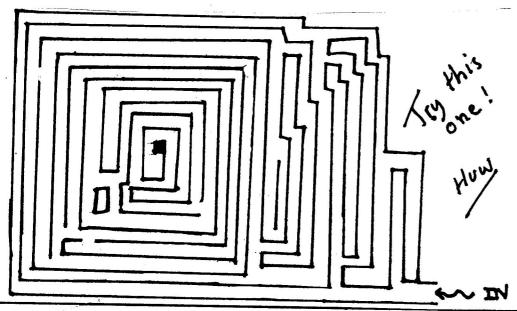
50 MUSIC1,3,0,0

Now run it.

The sound should go up in semi-tones, getting louder by each note. Can you see why this is? I hope so.

In the FOR-NEXT loop 'N' is increased by one each time. In the MUSIC command 'N' is in the volume and semi-tones controls. WAIT is an obvious command even if you don't know how it works, it waits for the amount of hundreths of seconds after 'WAIT'.

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ORIC FAX!

Did you know that the highest number the ORIC can handle is about

1.7*10\dagger38, and using a simple loop,

ie:

10 A=A+1:

20 GOTO10

It would take around

10000000000000000000000000 million centurys to reach this number.

by Paul

This program was sent in by Huw. Try and work out what it does and if you get stuck type it in, (don't take it too seriously??).

10 REM SOPHISTOCATED PROGRAM

20 SOUND2, 20, 15: WAIT20

30 GOT090

40 FORA=1T010

45 ABS(-4)=SIN(A)*8 TO INTERLIPTS

50 READN

WONDER HOW

LONG ET TOOK

TO WORK THAT

60 POKE#22B, N

62 COS(5)=90*A/2

65 NEXTA' CALL NEXT ROUTINE TO HAPPY

70 DATA#22A, #1BA, #30, #FF, #11B, #77, #34, #



80 UNTIL ON A=200,300,400

110 IFA=0THENENDELSE40

100 PLAY0,0,0,0

120 GOTO40

90 REM TAKES INTERGRATED LOOP PATTERN