

COMPUTING

WITH THE

AMSTRAD

CPC

The independent magazine for Amstrad CPC users

INCORPORATING
AMTIX!

**EXCLUSIVE PREVIEW!
GET DEXTER 2**

AMTIX!
Atolde
GALACTIC
GAMES
STAR WARS
GRYZOR

**WIN
A POCKET
COLOUR
TV!**

Drawing packages compared

Type-in games and utilities

Knight Orc reviewed

FOR ADAMI ST. ANSTRAD
ANSTRAD VERSION INCLUDES GET DEXTER I

He's back..... GET DEXTER 2

GET DEXTER II
is the winning
3D arcade
adventure
that you can't
do without.

A new and stupendous
GET DEXTER adventure.
You have to uncover the
extraordinary secret of
the temple of Antónes
by negotiation, battles
and seduction. An
unbelievably wondrous
world of excitement
awaits you: 3D
graphics, animated
humanoids, robots,
live animals and
lots of traps,
gags and puzzles.



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"Computing with the Amstrad CPC" welcomes program listings and articles for publication. Material should be typed or computer-printed, and preferably double-spaced. Programs listings should be accompanied by cassette tape or disk. Please include a stamped, self-addressed envelope, indicating the return of material received by government. Contributions accepted for publication by Mackie Publications Ltd will be on an all-rights basis.

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Contents

FEATURES

5 NEWS UPDATE

Read all about it! A round up of all the latest events and happenings in the Amstrad world.

39 BANKMANAGER

The second in a series explaining the ins and outs of your CPC6128's extra memory.

41 LOGO

Our popular series comes to a close with a look at recursion and local variables.

47 POSTBAG

Your forum for feedback, questions and answers in the pages you write yourselves.

53 ORDER FORM

Bag a bargain, take out a subscription, order a back issue - they're all here on one easy-to-use form.

56 10-LINERS

More programming games on the pages where you can show off your talents and win up to 10 pounds.

REVIEW

10 MODE 2 ART

Esadrar and Cherry Paint compared in an in-depth assessment by our resident expert.

GAME

8 MELTDOWN

Wipe out your friends and relations in this infuriating novel two-player board game.



All major listings in this issue are accompanied by checkmarks to help answerer by listing mistakes. For how they work see the article in the June 1987 issue and the comments in July 1987's Postbag.

UTILITY

32 PIXELATOR

You can add polish to those Mode II screens with this professional-quality pixel editor.



14 HOUSE CALL

Top French software house Loricola is all set to cross the Channel. Will it make a splash?

16 REVIEWS

- Star Wars
- Scorples
- Gnyor
- Mask II
- Firetrap
- 2D Starfighter
- Sapiens
- Goffig and Co.
- Werewolves of London
- Riding the Rapids
- Captain America
- Gauntlet II
- Deflator
- Galactic Games
- Super Hang-On
- Get Dander II

29 GALLUP

Top 20 software start.

31 COMPETITION

Answer six easy questions and you could win one of three pocket TVs or a red-hot compilation.

35 ADVENTURES

Standoff gets to grips with Knight One, and provides solutions and advice for beleaguered adventures.

43 AMTIPS

Infinite lives for Diary, plus games for Synaps, Agent XII, and Morfy on the Run.

Link your Amstrad CPC to the outside world with...

MicroLink

Electronic mail – The cheapest and fastest form of communication possible. It costs the same to send a message to one mailbox as to 500!

Telex – Link up with 86,000 telex subscribers in the UK and 1.5 million worldwide. You can even send and receive telexes after office hours or while travelling.

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When you join MicroLink you've got the whole business world at your fingertips – 24 hours a day. You'll have immediate access to ALL the facilities offered by Telecom Gold ... and a great deal more besides.



All you need – apart from your Amstrad – is a modem, which plugs into your telephone wall socket, an RS232 interface and suitable communications software.

We have provided a list of possible combinations (left), ranging from the very cheapest to ones which can automatically dial the MicroLink telephone number and connect you directly to the service – all you have to do is type in your personal security password.

Whichever equipment you use, you will be able to call MicroLink, open your mailbox, leave to disc any messages waiting for you, and disconnect in as little as two minutes.

Typical connect packages

- A) **Cable**: Amstrad 500 modem + RS232 interface + tape or disc communications software £76.40
- B) **2000**: Amstrad 500, 502 essential modem + RS232 interface + software suite £99
- C) **Peer**: Alphanumeric 500, 502 manual dial modem + RS232 interface + Comstar suite £158
- D) **Peer**: Linear 500, 502 auto-dial modem + RS232 interface + Comstar suite £218



More than 90 per cent of subscribers can connect to the MicroLink computer at local call rates.

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Address

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CPD04

CPC NEWS UPDATE

Taking a bus to fame?

UNEMPLOYED Davey Dixon took a bus ride to discovery — and what he found is computer games fame and fortune.

Heading around the back roads of America on a Greyhound bus he thought up the basic idea of the strategy game *September*, just released by Activision (81-421 1107) for the CPC.

Davey wrote the final version after spending eight hours a day on London buses following his return to his country.

September lets you challenge the CPC or up to three other players to endless rounds of route planning.

The aim is to construct a line from one side of the playing board to the other.

Numerous shapes and straight places are used and the game continues until there is a winner. Price (£8.99 on cassette, £14.99 on disc).

A **JOINT** venture by Hewson and Mastertronic has led to the creation of a new budget label — **Rack-It** — which has to be excellent news for CPC gamers.

February sees the first releases on the label — a batch of titles acquired from Gargoyle which are well worth a second airing. And at just £2.99 each, it certainly won't be money wasted.

At the time of going to press, it wasn't possible to ascertain the exact order in which Rack-It planned to launch the titles.

However, lined up for the label between now and the end of the year are *Ad Astra*, the shoot-'em-up which was Gargoyle's first ever title, *Tin Na Nog* and *Dun Darach*, which introduced the gleefully tugging Celtic hero Cuchulain, *Manport*, and *Sweeney's World*, a wonderful parody on the

By CHRISTINA ERSKINE

Knight Lore game.

As Gargoyle's Greg Feltis points out, the nature of software titles is to be short-lived, and those who didn't have a CPC two or three years ago may well have never come across the titles. This is your chance to catch up.

Of course as re-release will look a bit dated compared to today's programs, but I reckon those will have dated less than most.

The graphics and animation of Gargoyle's games were quite stunning. *Tin Na Nog* and *Dun Darach* are snappy in atmosphere, and *Sweeney's World* is a delight to play.

The release of add-on titles, preferably at a budget price, is in vogue at the moment, and very

welcome it is too.

CPC owners can now buy all the old Ultimate classics — including the mould-breaking *Knight Lore*, and its follow-up *Allen 8* — and *Way of the Exploding Fist* for £1.99, while Hewson's *Ultimus*, when it finally appeared on the machine, came in at £2.99.

Anyone who came to CPC computing after the original shelf-life of these titles, or who was half asleep at the time and never got round to buying them can now find out what all the fuss was about.

I can think of a few more "standard beasts" that could well be dusted down and given a new lease of life.

How about Virgin's *Barcera*, which was everybody's favourite Amstrad game in 1985?

Then there's *Elite*, which was a classic on every machine. *Formal 3*, appeared on 2868 (8-470) a pretty hefty starting point for full-price games these days, the chance to play some slices of software history without breaking the bank is an attractive one.

I-APL for the 6128

DEVELOPERS of the first all-machine truly portable language I-APL are currently working on a version for CRM machines including the Amstrad CPC6128.

The international I-APL project was formed in 1986 to write and issue a free international APL interpreter for home and school users.

Its supporters believe such comprehensive coverage will be of great benefit in education because more can be done using less commands with APL than any other computer language.

European I-APL project

chairman Mr Anthony Comacho said: "There is no better way to do mathematics on a computer than by using APL."

He says I-APL is now "running in less than 26,000 bytes of code in an IBM PC clone". The smallest previous complete APL interpreter was more than 75,000 bytes, and typical mainframe APLs are more than 400,000 bytes.

All I-APL software will be free — the only charge being for the disc, copying, and the books and manuals. Comacho promises there will be "cheaper than photocopies".

Super CPCs

THE Amstrad CPC6128 has been awarded a Best Buy accolade by the Consumers' Association magazine *Which?*

The special report on home computing said the machine was ideal "for fun and a bit more — for playing games, finding out what computing is about, learning about programming, keeping household records, doing word processing and accounts, or as an aid to learning non-computer subjects".

In the same report the CPC484 was described as "cheap and fun if you want a budget-priced computer to work with a cassette player".

ARTIST DIES

COMPUTER gamers were stunned by the death of talented Code Masters artist James Willis.

Only 20 years old, James drowned in an accident at Lyme Regis. He was responsible for the graphics of several Code Masters hits.

Turn to Page 28 for the Staff's Top 20

Sounds exciting

The musical capabilities of the CPC have been greatly expanded with the release of a new editing package for the Yamaha PB01 multi-timbral midi module.

DHCP Electronics (0440 61207) says that the PB01 module offers an editor for saving and loading up to 95 configurations, categories of playback, send or receive from 1 to 95 configurations, and enables the user to hear instruments from the computer.

The package also has a voice editor which permits single key functions, mixes 48 voices into a data bank, list voices within a data bank, save/load voices to tape or disc, and to send/receive voices from the PB01. Price £29.95 on tape and £34.95 on disc.

TEN new titles for the CPC have been announced by The Power House (01-879 7266).

They are Great Machines, Danish, Stainless to Hell, Dambusters, Killspede, Desert Fox, International Bowls, Metropolis, Astorbil, and Endurance.

The spring release schedule announced by Gemini Graphics (0740 750429) includes Alternative World Games, Tour De France, Blood Valley and Mortal for the CPC.



A LEAP into the next century is how Digital Integration (0224 684844) describes its latest CPC release Advanced Tactical Fighter.

The 3D arcade action

simulation features relief landscapes, in-flight computer, missile strategy, weapon selection and automatic landing.

Price £8.95 on cassette, £12.95 on disc.

CPC to the rescue

RELIEF workers in Africa are using Amstrad CPC8128s for a variety of monitoring exercises in communities at risk from poverty and malnutrition.

Special programs analysing children's body measurements warn of areas where emergency food supplements are needed in Ethiopia and

Sudan, according to a report in The Guardian.

Also supported by Amstrad machines employed by Oxfam and the Save the Children Fund are food distribution administration in Sudan, an immunisation programme in Mozambique, and a disability register in Zimbabwe.

AFTER Colossus Chess and Colossus Bridge, it's time for Colossus Mah Jong - CDS Software's version of the ancient oriental waltz and tiles game.

Four tutorial sessions are provided for beginners, while experienced players can use any of nine intelligence levels or full tournament mode.

Colossus Mah Jong costs £9.99 on cassette and £14.99 on disc from CDS Software (0382 211340).

Join the fleet

TORPEDOES, guided missiles, radar and sonar are just some of the factors to contend with in Ocean Conquest from Hewlett on the Rack II label.

The game puts the player in charge of a submarine on a mission to seek out and destroy four convoys.

Another Rack II title for the CPC is Anarchy which features 78 maze-like carpets of tileable blocks, unstoppable aliens, and manic manoeuvring tanks.

The object of the game is to blast away all the blocks from each level while dodging aliens whose sole task is to destroy you. Both games are priced £2.99 from Hewlett (0235 622881).

Arcade action

A NEW release developed by System 3 for Activision (01-431 1107) is based on the film Predator.

You play the part of Major Dutch Schaeffer, leader of a commando unit assigned to rescue prisoners. But the hunters become the hunted after a fierce battle and mere survival is now the aim.

The game features hi-res graphics, dual speed sideways scrolling and many screens of pure arcade action. Price £9.99 on cassette, £14.99 on disc.

WAZAT is claimed to be the most powerful worddata communications program for the CPC has been released by Amstrad's Cage.

The Cage Comms Rom is designed as a replacement rom for four of the main packages currently available.

Producer and co-author Ian Hoare said: "The program was written out of frustration. I found no existing package had the facilities I needed for my CPC8128, and had become used to professional worddata editing terminals.

"I asked expert comms programmer David Corral to help produce a top

class editing package and The Cage Comms Rom is the result.

"It's taken 18 months hard work by both of us and incorporates features previously only available on editing terminals used by large organisations such as Telemat".

Frames may be captured to memory, redisplayed, printed in either text or graphics mode, edited and reloaded or copied intelligently, whole or in part. Up to 94 frames can be stored at a time on a CPC8128, 26

on a CPC484.

Any type of response frame currently used by Postal may be formed into a template for offline message preparation and subsequent automated sending.

Up to 26 pages may be tagged and accessed later at the press of a key, and the program fully supports Microsoft's compressed protocols, decoding them automatically.

The Cage Comms Rom costs £30 from Amstrad's Cage (01-865 8957).

Comms rom for CPCs

MELTDOWN

MELTDOWN is a game for two players. It is played on a 16x16 board with each player taking it in turn to place a counter on either an empty square or one he has already occupied. The object is to wipe all your opponent's counters from the board.

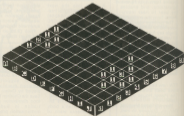
You can put up to three counters on a square. If you place a fourth, the square becomes overloaded and explodes. When this happens the counters are blown on to the four adjacent squares.

If the opponent occupies any of these, the counters in those squares are removed leaving those empty. After an explosion, an extra counter of the player's colour is left in the exploded square.

If, in the process of a square exploding, a fourth counter is added to an adjacent square, that explodes too. In this way chain reactions can occur which will increase the player's number of counters, and often leave the opponent rather worse off.

However, if more than four counters end up on a square, it becomes too heavy and implodes, leaving nothing.

Wipe out your enemies – and your friends
– in ROBIN NIXON's novel strategy game



```

100:AAA *****
110:AAA +
120:AAA + MELTDOWN +
130:AAA + +
140:AAA + By Robin Nixon +
150:AAA +
160:AAA + To Computing +
170:AAA + with IBM +
180:AAA + manual +
190:AAA +
200:AAA *****
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MAJOR VARIABLES

ABS Array holding the board
BL Set if the blue player has won
COL Machine code subroutine to set graphics
 paper and pen colors
MAIN FOR NEXT variables
N Used for controlling sound loops
P The current player
PRINTSCR Copies the board screen from 84000 to 85000

SAVESC Saves the screen (at 85000 to 86000)
TT Constant equaling 33
WW Set if the white player has won
XY X and Y coordinates on the board
TEMPORARY X and Y coordinates on the board
AD Character to be printed at the present position on the board
IN String returned by INKEY

```

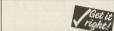
800 GOTO 801,800
810 GOTO 820
820 END
830 FOR X=0 TO 3:FOR Y=0 TO 3:GOTO 830,830
840 FOR X=0 TO 3:FOR Y=0 TO 3:GOTO 840,840
850 GOTO 850,850
860 GOTO 860,860
870 GOTO 870,870
880 GOTO 880,880
890 GOTO 890,890
900 GOTO 900,900
910 GOTO 910,910
920 GOTO 920,920
930 GOTO 930,930
940 GOTO 940,940
950 GOTO 950,950
960 GOTO 960,960
970 GOTO 970,970
980 GOTO 980,980
990 GOTO 990,990

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1000 GOTO 1000,1000
1010 GOTO 1010,1010
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1070 GOTO 1070,1070
1080 GOTO 1080,1080
1090 GOTO 1090,1090
1100 GOTO 1100,1100
1110 GOTO 1110,1110
1120 GOTO 1120,1120
1130 GOTO 1130,1130
1140 GOTO 1140,1140
1150 GOTO 1150,1150
1160 GOTO 1160,1160
1170 GOTO 1170,1170
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| 1490 | 1490 | 1490 | 1490 | 1490 | 1490 |
| 1500 | 1500 | 1500 | 1500 | 1500 | 1500 |

Pointers to hi-res plotting

THERE are two main reasons for using a drawing program. One is to create images on the screen, the other to output the results to a printer or plotter.

In the second case colour can be a hindrance because what you see on the screen doesn't bear much relation to the final copy.

Colour printers vary in quality and can be expensive to buy and run. You've got to be pretty serious about buying one and you'd probably want to keep it for best and use an ordinary dot matrix as a work horse.

At first sight Sierra Software's *Cherry Paint* and Metrotec's *Easydraw* might seem limited in that they work only in Mode 2. You do, however, have the advantage of finer detail and if you're thinking in terms of printed output, the screen is close to the appearance of the end product.

The two packages operate very differently and are not aimed at the same type of market. There is some overlap, but you could produce drawings with *Easydraw* which would be virtually impossible with *Cherry Paint* - and vice versa.

The first thing noticeable about *Cherry Paint* is the single sheet of instructions. Screen designers tend to be so complicated as to merit a complete manual, and it made me wonder if there were going to be enough features to make it much use.

Cherry Paint

Once loaded you have a drawing area, a series of icons, a menu bar and a pointer. The pointer can be moved around with the cursor keys, joystick or AMX mouse and the control option is set up with a separate configuration program. This also allows you to redefine control codes to cater for non-standard printers. The pointer moves slowly at first then - if you hold down the key - accelerates.

Loading a previously saved picture



IAN SHARPE compares two Mode 2 drawing packages

It is simply a matter of moving the pointer to the file option and pressing the spacebar so that a pull-down menu appears. Several items are listed here - save or load picture, select default disc drive, print picture, or format a disc.

You move the pointer down the menu to the appropriate item, let go of the spacebar, and the selected function leaps into action. In this case prompting you for a filename.

The group of icons top left of the screen access most of the drawing functions. The first is a pencil which, once selected, inverts in colour. The pointer in the drawing area becomes a pencil and by moving it while pressing the spacebar you can leave a trail.

Accuracy limited

The eight directions inherent in keyboard or joystick control coupled with the pointer's acceleration limit the degree of accuracy for freehand work and I found rubber-banded lines better.

You can choose the line thickness at the bottom left of the screen and lines are drawn using one of the patterns at the bottom of the screen. The current pattern is selected by moving the pointer over it and pressing the spacebar, mouse or fire button. One of these patterns is a solid block so you can have pure black lines.

The aerosol allows you to spray an area with the current pattern. Like the effect builds up gradually, unlike the brush where you can paint the feature on to the screen using one of the shapes shown in the group of six below the function icons.

The drawing area shows part of a screen-sized sheet and the hand tool

you push the paper about to position the part you're working on under the window. Unfortunately most functions can only be used on the visible area which can be inconvenient.

At one stage I wanted to move a block which was taller than the drawing window. It had to be moved in two sections, and this involved careful positioning and some fiddling up afterwards.

Text can be added with the A icon. You have a choice of sizes and styles - bold, italic, underline or 3D - which can be mixed to give, for instance, bold italic. These are accessed from the Size and Style menus. Another menu - Font - is also concerned with text but has only one item and therefore seems redundant. Perhaps we may see this menu extended in the future.

Box drawing

Two box icons at the bottom of the function block allow you to draw empty or filled rectangles. If you want the box to have an outline, with a filled box it is drawn with a solid line in the currently selected thickness. With empty boxes the line is again drawn in a pattern. Like the line drawing function, the boxes rubber-band.

Defining an area with a dotted box allows you to push it round or operate on it using one of the options under the fill menu.

These include multiple copies of the area - with or without leaving the original intact - delete, vertical or horizontal reflection, and colour inversion. There is a bug here which sometimes leaves a copy of the pointer on the screen.

The pull-down menu under Special

allows you to zoom in on an area for pixel editing, view the page as a whole or undo the last function. Zoom is very good but has a slight problem in that it won't take in the last pixel round the edge of the drawing area. When viewing the page a window opens and you see a scaled-down version of the whole pattern. This has the effect of turning the darker patterns black and I would prefer to see the screen as its full size.

You're stuck with the patterns provided, and it would have been nice to be able to define your own. Apart from the filled box, there is no area fill but you can achieve the same result by painting and spraying with the required pattern and tidying up the edges afterwards.

Printer control

I mentioned earlier that you can redefine printer control codes with the configuration program. If you are lucky enough to own a GMP2000 or compatible there are a variety of printer drivers to choose from which give different sizes of dump orientated vertically or horizontally.

If you need to define your own driver, there isn't a way of getting more than one size. Fortunately, if this is a problem Cherry Paint screens are ordinary binary files which can be loaded from Basic and used with whatever dumps you have available. For the benefit of the less experienced a little more explanation of the configurator in the instructions would not go amiss. Other than that I found them adequate.

The program is exceptionally easy to use with a nice slick professional feel. I missed an ellipsis function - though if you were desperate you could do it in Basic - and the ability to redefine at least one pattern, preferably the whole lot. Being able to design your own fonts would be a nice bonus, as would the facility to get a readout of the cursor's coordinates.

I'd like to see a Cherry Paint Plus with these features implemented. They'd turn a program that's already nice into something special. If you want to design colourful screens or concentrate on technical work, this isn't the package to get, but within its limitations it's good value and performs well.

Easydraw

DM to Easydraw. It is aimed at the production of accurate drawings based on lines, circles, rectangles and crosshatching - electronic draughtsmanship. The filenames on the disc reinforce this impression - they all

start with CAD which is an acronym for computer aided design.

Easydraw also uses an Easitrac program for artists, so there can't be much doubt as to Easydraw's function.

Tom clashes

Before seeing the computing light I spent many years in railway civil engineering and produced countless engineering drawings the hard way. Easydraw was, therefore, of great interest.

The program clashed with one or more of my numerous rats. Switching them off with the appropriate command wasn't enough and I had to unplug my keyboard - hardly conducive to long-term edge connector longevity. Although the packaging says CPC, Easydraw will not run on the

or the last place where you pressed Move.

Two nice features are Near and Blend. Near mode - which can be turned off - will scan for a nearby line end. If one is found, the end of the line you're drawing will be made to connect with it. Blend allows you to round off the corners of line joints by specifying a radius. There is also a facility to change line style but there are only two possibilities - solid or dotted.

I found that moving the pointer long distances with the joystick was a slow process. It's much quicker by rollerball. Moving the panel to the top left of the screen pulls down a menu. From here you access all functions by moving the pointer down the list and pressing Esc/ctrl.

A section of program - or overlay -



The Cherry Paint editing screen

CPC486 owing to the use of CPC8120 88K - specific commands, all of which could have been avoided.

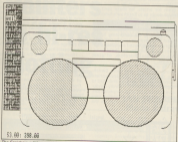
Control is by a choice of trackball, mouse or joystick. With a joystick you have to use three function keys to simulate the mouse buttons and this is fiddly if your stick doesn't adhere to the table. Why then isn't there a keyboard option? I haven't got a trackball, so I used an AMX mouse.

After the main program has loaded you are presented with the editing screen. This has a pencil-shaped pointer and a readout of its coordinates. By default you are in line mode where you can draw lines by moving the pencil and pressing Esc/ctrl. This draws a line - optionally rubber-banded - from the end of the last one

is then loaded from disc to perform the task. The few seconds delay which occurs can be frustrating when you're in full flow, and given that Easydraw is mainly restricted to the CPC8120, it's odd the programmer didn't store the overlays in the extra ram.

The overlay system has the advantage that the program can be larger than one contained solely in memory and so can have more facilities. Easydraw does have a reasonable range of options, but I would have expected more in a program that is supposed to be a viable alternative to a set of drawing instruments, even at a simple level.

The first items on the menu are



The BasicDraw editing screen

• From Page 22

Save and Load. These work as expected, but you can't load screens from Basic. The reason is that BasicDraw pictures are not saved as a block of screen memory but as a list of instructions. As you create a drawing your actions are recorded so a line would be stored as two sets of coordinates specifying the start and end positions, and a circle would be the coordinates of its centre plus the radius.

Rectifying errors

This method saves disc space and makes possible the Delete function. Here you can, for example, erase a complete line. The program deletes it from the list of objects and the screen is drawn afresh.

This leaves everything else intact but complicated designs get tedious as the picture is laboriously reconstructed every time you rectify a mistake. Also this system makes the tidying up of pictures, by erasing small bits, impossible - you can only erase a complete circle as you draw it, not just a section.

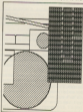
After a couple of hours I decided it would be a good idea to save my work. Without thinking I swapped the system disc for my picture disc and selected the Save option. The program looked for the Save overlay and of course it wasn't there. I was

dumped back into Basic with an error report, and all was lost.

What I did was dumb but if I did it, so will somebody else. The program is mostly written in the later version of Basic which is capable of trapping such errors quite easily, so why can't it deal with them?

Zoom was a bit of a letdown. Because of the way screens are stored, once a section has been magnified you can't work on it, just check the detail. In fact you can't plot individual points - not an unusual requirement, even in technical drawing.

The circle option allows you to draw



BasicDraw's zoom facility in action

segments as well as complete circles. Unfortunately this function is not as useful as it could be.

It isn't uncommon to want to use large radii - constructing a cross section through a lens for example, or a surface with a long flat curve - which would involve part of the circle going offscreen. As soon as you try, the function gives up.

There is a facility to copy a section of screen by enclosing it in a box and specifying X and Y offsets to the new position. It will only move objects completely enclosed in the box, so if one end of a line begins outside it, the entire line will be left behind, as will any text or shading.

This method of specifying offsets means you have to keep a pencil and paper handy to keep track of the coordinates of key points and calculate where you are going.

Leaky fills

The hatch option allows you to fill an area with one of two styles - left or right. It's slow and not particularly efficient as complicated shapes need to be done in several stages.

Another mean is that if the fill leaks out of the shape - an easy mistake with dotted lines - you cannot stop. Neither can you un-hatch an individual section, if you try, all the hatching on the screen disappears. Two styles of cross hatching without even a solid fill are, in my opinion, inadequate.

The screen dump is configured specifically for the DMF2000. This is compatible with many other printers, but not a lot of use if you have something slightly non-standard. A program whose main aim in life is to produce hard copy should be more developed in this area and include a reconfiguration facility and plotter drivers.

A text function allows the addition of notes, but only in one style. The ability to turn text sideways to print vertically is essential for technical work, but BasicDraw doesn't cater for it.

Other functions are for cataloguing a disc, and customising the coordinate system. With this the origin can be relocated and you can specify a scale factor which will be applied to the coordinates to give a second readout of the pointer's position.

The instructions are supplied in a five-page ring-bound manual and supplemented by a Help function. They're enough to find your way round but fail to point out that this is a Mode 2 package, that it won't run on the CPC4640/51 and you can't draw

non-standard (but hardly rare) printers.

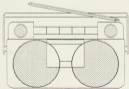
I have to say that the Easidraw approach didn't work very well for me. As a former draughtsman I had a clear idea of what I wanted from the package and how long it would take me to get equivalent results using drawing

instruments. Easidraw does not go far enough down its chosen avenue; it's slow and does not enable me to do anything I couldn't do a lot faster with the minimum of drawing equipment.

There are, however, many relatively simple things that I could do by hand which would take a long time or prove

impossible with Easidraw. Metrosco could argue that I'm applying too high a standard, but I find it difficult to think of a situation where even an unskilled person would find this program a genuine aid.

Even something like designing a new layout for your living room would be better done with graph paper and cardboard rectangles to represent the furniture. I wonder if it's significant that there are no demonstration screens on the disc?



All the ears work

Product: Easidraw
Price: £79.99 (value only)
Distributor: Metrosco, Two House, 20 King
Place, Southampton SO7 2NA
Tel: 070-619 0990

Product: Cherry Paint
Price: £9.99 (value only)
Distributor: Screen Software, 2-4 Oxford
St., Manchester M1 3QA
Tel: 067-228 1821

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LORICIELS is a name we only hear from time to time in Britain, but all that's set to change, in partnership with top software houses Elite it has set up a UK operation to market the best software from France.

To launch the new company Loriciels and Elite recently held a press day at the National Motorcycle Museum in Birmingham. The reason being that first off the starting grid is Grand Prix 580cc, a completely rewritten and upgraded version of a game which found its way on to the British market last year.

Chairman Laurent Weil started by giving a run-down on the company's background. He explained that he and his associate Marc Bayle founded Loriciels in September 1983.

By early the next year they were so busy they had to create their own marketing and publicity department, and by September it had become the number one French software house, having sold more than 200,000 units.

At this time it had more than 150 titles on its books including prose and adventure games, management applications, communications packages and languages.

In the autumn of 1986 it had grown so big it had to move to new premises near Paris with 1000 square feet of offices and warehousing space. From its new base it immediately launched 55 programs it describes as being a completely new generation. To handle these releases it also

created a distribution wing, an in-house advertising agency and a graphic arts studio.

As if all this wasn't enough, Laurent and Marc also found time to set up two more companies, Microids and Priam. Microids concentrates on micro and domestic robots, and design simulation software such as GP 580cc. Priam writes professional software such as the word processor Evolution which has sold more than 50,000 copies in France alone.

Today Loriciels has 53 employees. It

Companies with Loriciels' and Elite's success working together have formed a great start for Loriciels

— Willey Penny,
Product Manager, Loriciels UK.

is the number one software publisher in France, and the third largest distributor with an expected turnover of £3 million this year.

After filling us in on the background they told us about their future plans. Now that the UK company is up and running it expects to release programs every two weeks for the CPC

series, Atari ST, IBM compatibles, and the Commodore 64.

Out of 85 titles to be produced in France this year, 52 to 54 will appear over here. But before we get to see them they will go through a strict screening process at Elite to ensure that they have been effectively translated.

Apparently it's not just a matter of translating the text. According to Loriciels' marketing manager, the software market in the UK is quite different from in France. For instance, they have just produced an adventure based on a well known story by Victor Hugo. Playing the game would be impossible for anyone unfamiliar with the book — even if it were translated into English.

The French also have a unique way of presenting their adventure games using big characters and speech



CONNECTION

littles. A lot of humour is often included – but that is sometimes lost in the translation.

By the way, you know how we often

“We want Loricels SW to be a British company – not a French subsidiary.”

– Laurent Weil,
Chairman, Loricels France.

complain about the high cost of software? Well, in fact we're really quite lucky. According to Loricels, software in France can cost 30 per cent more than in Britain.

Below are some of the releases to look forward to.



John Henry, Loricels Product Manager



From top to bottom:
Steve Wilson, Service Site Systems;
Nick Henry, Product Manager Loricels;
Mark Davis, Director Loricels;
Laurent Weil, President Loricels

Straight Six

A compilation of six games previously only released in France. They are 3D Fight, a space shoot-'em-up; Billy, an arcade adventure; Secret, a colourful simulation; MGST, an excellent 3D maze game featuring a link of the future; Flash, a 100-levs where you can change your mode of transport; and 2000 2000, a futuristic adventure.

We have managed to obtain the first copies of Straight Six to give away in our great competition – turn to Page 21.



3D Fight



Two games from Straight Six

Sapiens

All adventures set a thousand centuries ago with an incredible three million variations generated using fractals. In order to win you have to become a warrior, hunter and set off to conquer new lands where nothing but trouble awaits you.

Your weapons must be found made from fire, weapons must be collected or bought, and food must be found. In this Stone Age adventure the only law is survival of the fittest.

Grand Prix 500cc

This should be in the shops any time now. It's a motorcycle racing simulator featuring a two-player system – each with their own screen. There are 12 international circuits and the object is to become the world champion.

All these games – and many more from Loricels – will be reviewed first in Computing with the channel. Make sure you don't miss them! After a great day out, I came away feeling that we are in for some interesting developments from across the Channel. Loricels could certainly give the British software houses a run for their money, and with their different approach to writing software they'll be bringing in a breath of fresh air.

GALACTIC GAMES

Activision
£9.99 (tape)
£14.99 (disc)
Joystick and
keys

THIS unlikely collection of warped wonders masquerades under the concept of an interplanetary Olympics, and must be among the maddest ever seen on the Amstrad. Let's get one thing clear - these games are weird.

The collection has much the same feel as the track and field programs of a couple of years ago, only I can't see the 100m sprint, space hockey, psychic judo, head bashing, or the maroonish marathon being eligible for Seoul this year.

The 100m sprint puts you into good old wacky mode, attempting to burn up a 100m track in under 30 seconds. Any longer and you will be disqualified. I really need not tell you of this contingency because if you play the game, you will no doubt experience such an occurrence.

The Matted treadmill is hellishly difficult to get moving at a reasonable pace without raising its temperature so much that it burns out. This 100m is not the typical breaking sweat of a typical race amongst humans, more a skillful manipulation to get a reasonable rhythm going.

Space Hockey is an excellent advanced variation of the old TV football game. You knock a puck around the screen attempting to force it into your opponent's goal. Sounds simple



doesn't it? The puck is a living creature which visibly grows as you hit it. Thus to the limited extent of its mobility, the puck tries to avoid being hit.

The goals are not standard, they're black holes which will also suck in players if they get too near. A final consideration is that the whole game is played in deep space, hitting the ball or colliding with the opposing player will result in you bouncing back from the point of impact.

The consequence of all this is a game involving an maybe until you get used to the state of play needed to score points over the four 40-second quarters that constitute one match.

Head bashing bears a fair resemblance to the computerised jiu-jitsu game. You get your character in the starting line with as much momentum as possible, press the fire

button, and off flies his head.

Fuller control of lateral trajectory and angle of landing are available to ensure you get a long even flight with the head's nose landing firmly in the opponent. A nice sounding siren is heard when this occurs. You also have the option of juggling the head's eyes in mid-flight to gain a little extra distance.

Psychic judo and the maroonish marathon bear to obvious comparison. The former is a combat game involving into attacking critical aspects of your opponent's body, whereas the latter puts you as a many-stopped being travelling a large circuit, slipping into your various guises to complete different parts of the course.

Although the two player option for all these games utilizes both keys and joystick, the one player against the computer mode appears to make on the joystick being used. Though the controls are extremely good, the keyboard player looks to be at a bit of a disadvantage.

What these games all have in common is a great sense of fun. There is considerable humour, not the unfunny schoolboy antics and innuendo of unfunny schoolboy programmers, but a few quips and jokes included in the game design that do not cease to be amusing after one or two plays.

With the exception of the maroonish marathon, and to some extent the 100m sprint, all the games were straightforward after a bit of practice. I particularly enjoyed space hockey when played against the



computer. The computer's skill level - which was not selectable - seemed ideal in that it was a notch higher than mine, enabling me to win the odd victory but to improve against it as well.

All five programs are selected from disc via a menu which outputs a brief score-keeping page. This is printed on-screen using a slow but novel method, which can be avoided, and the next event loaded in.

You can save your results and sample a full five game championship. To make the best use of this option, as well as not to die of boredom while waiting for a new event to be loaded in, you really need the disc control.

It is such simple but useful considerations as the above, plus the ability to choose to play the games in whichever order you like, that makes this collection as a whole higher than many others.

The events are not only whacky but they are quite well defined, well designed, full of detail, and eminently playable. I've headed and I'd wager that many others will be too.

Clive Gilford



Presentation 80%

Good introduction screens.

Graphics 90%

Not a major breakthrough, but good use of the Amstrad's graphics.

Sound 88%

Good effects, easily programmed.

Playability 93%

Easy to understand, generally a pleasure to play.

Addictiveness 94%

One to play again and again!

Value 90%

Five excellent games at a reasonable price.

Overall 92%

A well and wonderful collection.

STAR WARS

Demarc
£9.95 (tape)
£14.95 (disc)
Joystick or
keys

SEVERAL years ago Atari released an arcade game based on that classic science fiction adventure film Star Wars. Employing fast-moving vector graphics, it was an instant success. Now Demarc has produced an Amstrad version, and it's a winner.

Before the mission can start you must select the level of play — easy, medium, or hard. True to the coin-op original, Star Wars is played in three stages.

First comes my favourite — the approach to the Death Star — which involves a frenetic

the beginning of stage two.

Blazing low over the surface of the artificial planetoid you come under fire from its laser defence towers. The towers can't be destroyed, but they can be immobilised by shooting off their tops — take care and hoody with the 300 points — just steer around them and head for the beach.

The easy win — which the touch can be flared under unexpectedly, initially you face only fireballs, but on level two the Cafwatts begin to appear. At level four there are more Cafwatts than space to fly in.

Finally, at the end of the beach, you reach your goal. One well placed shot at the exhaust port and the Death Star is no more — and the next level that is.

The best arcade games are those you find yourself still playing at night while desperately trying to fall asleep — Star Wars is like such a game.

Rev Andy

Presentation 85%

Everything displayed on-screen.

Graphics 92%

Slack vector graphics.

Sound 78%

Excellent tune.

Playability 93%

You definitely need "the force" on the higher levels.

Addictiveness 92%

I love it, I love it, I love it

Value 94%

None of all the ten pence you'll save.

Overall 91%

A marvellous copy



dogfight with imperial fighters. Squadsrons fly into view, launch fireballs, and zoom away at high speed.

Sometimes among the fighters is a small fast incredibly manoeuvrable ship piloted by non other than Darth Vader. This little beastie is worth a full 2,000 points, but you'll need all the force you can muster if you're going to hit it.

Having retained a second shooting, the fighters turn tail and head for the Death Star —

SCRUPLES



Virgin
£9.95 (tape)
£14.95 (disc)
Joystick and
keys

A QUESTION of Scruples is rather the popular adult game in which a group of friends fire questions — and possibly embarrassing — questions at each other.

Between three and ten players can take part, and any or all may be computer controlled. After selecting a computer opponent you are presented with a selection of mug shots from which you choose the computerised player.

The personality is suggested by their appearance — ones wearing sunglasses are probably sassy whereas the vic would be a good guy.

Human players are required to input their own personality profile. Using the joystick you set values of between plus and minus five for each of 12 personality traits on a bar graph.

These include principles, trust, personal and professional integrity, greed, and honesty. When you are satisfied with your opinion of yourself, the computer will adjust the graph to bring the profile within the bounds of reason.

Each player is dealt a number of question cards, plus one answer card. The answer card is one of three possible types — Yes, No, or Depends. You must decide which of your opponents will give that particular answer in response to one of the questions

you are holding.

Guess correctly and you can discard the question card plus your opponent answer card. You can then deal a new answer card.

The aim is to be the first player to get rid of all your question cards. In addition to these straightforward question-and-answer stages, players are also allowed to challenge the answering player's response.

Another contestant may select either of the remaining two possible answers. There follows a battle in which everyone casts a vote for the player they believe. The loser gets another question card.

Cartoonist Scruples is entertaining and well written, but soon becomes repetitive. It is not really suitable for use with a large number of human players.

Carol Sparrow

Presentation 85%

Easy-to-follow instructions.

Graphics 75%

Expressive character.

Sound 78%

Excellent tune.

Playability 88%

The computer addresses the human bias.

Addictiveness 60%

The monthly value may soon wear thin.

Value 82%

I would be tempted to go for the card version.

Overall 82%

Only if you've no friends to play the original with.



3D STARFIGHTER

Code Masters £1.99 (tape) Joystick or keys

In a distant hostile galaxy human colonists flee from the evil forces of Zentor. Great fighters continually attack your fleet while Zentorian flagships move into orbit.

The fleet's last hope lies with the Complete Hostile Alien Colonisation system - CHAOS - a missile so destructive it will annihilate the pursuing aliens in one massive explosion.

You fly a Panther fighter equipped with light drive, a protective shield and essence (that's what it isn't) fire power. The object - to shoot the baddies. Your first task is to select your destination - one of five planets - on a battle chart. Select the planet with a cross-hair cursor and press Fire. Another planet you select, however, you'll be plunged into the same scenario.

The other planets may have a

purpose but the review copy was a pre-release version and came with pre-release instructions - none! Once in the planetary systems you must centre the cross-hair sights on approaching alien craft and blast them.

The alien ships look more like 80s sci-fi ray-traced material and glint more than they really should. They don't fire, they just crash into you if you don't shoot 'em first. If you miss there's almost no effect.

The sights have built-in inertia which they are reluctant to overcome - the aliens can manoeuvre around you. Keyboard control seems more responsive.

In the two-player option both players are defending the same ship. After tapping so many badies and completing the first scenario, you speed to another scenario, pretty much the same. In all, 3D Starfighter is a shoot-'em-up amalgamation of many older games and I couldn't get very enthusiastic about it.

Lee Wigham



Presentation 71%
Great! Two-player option and defensible play.

Graphics 77%
Nice ship interior but I didn't like the aliens.

Sound 82%
Good sampled speech and jolly shoot-'em-up tone.

Playability 66%
Didn't like the way the sights moved.

Addictiveness 58%
It's been done before.

Value 71%
You get your £1.99's worth.

Overall 64%
I've seen and played better.

GRYZOR

Ocean £9.95 (tape) £14.95 (disc) Joystick or keys

YET more Konami coin-up action is set to take over your Amstrad's screen. Unlike many conversions, this one really does capture the feel of the original and give us a game worth playing.

Earth's defenses have been breached by the alien Darts from the distant planet Gorm. They have set up a stronghold housing an atmosphere processing plant.

With this deadly device they have total control over Earth's weather, and plan to clear another ice age.

Lance Gryzor, armed with only a machine gun, is charged with the task of blowing Dart plants to those Earth ion toroids and erasing our resources.

His final objective is the Dart stronghold, about his only past the deadly asteroids, and destroy the atmosphere processor. There are three sections, each one being loaded from tape or



disc - unless you are running the demo version on a 128k machine.

As you progress through deadly tunnels and perilous mines, you will come across a number of weapon stores where you can pick up better guns, lasers, and lasers.

A status area shows your remaining lives, current score, and so on. As you move into one

of the tunnel scenes, a small clock shows the time left to complete the sequence. Failure to escape within the time limit will lose you another life.

In essence, Gyzor is just another control game. Where it scores over the opposition is in the attention given to fine detail. The graphics are beautifully drawn and the movement is fast

and smooth. Control is accurate and responsive, especially using a joystick.

The sound effects are pretty good, and you do have the option to switch on some music if you have a 128k machine.

Steve Lucas

Presentation 75%
No definite keys, but otherwise good.

Graphics 85%
Detailed landscapes and fast responsive action.

Sound 85%
Choice music or sound effects on 128k machines.

Playability 92%
Smooth control with plenty of action.

Addictiveness 95%
You've just got to keep playing.

Value 90%
A reasonable price for a first-class game.

Overall 82%
One of the most exciting games I've seen for ages. Happy, John!

MASK II

Gremlin
£9.95 (tape)
£14.95 (disc)
Joystick or
Joystick or
Joystick or

ONCE again Mask must liberate its forces to save the world from the villainous Venors and Miles Mayhem. There are three missions to complete. In the first you must save the president of the Peaceful Nations Alliance.

In the second you must find a missile and use it to destroy a Venor base, and in the third you

momentum in solarville slides - and it takes a while to stop.

There are other masks problems, too, as certain vehicles may be able to get into a tight corner, but can't get out. And at the time Venors are on your tail. Finding solutions is a major part, but if you get stuck you can send off for a hint sheet.

If you trial the original Mask and don't like it, don't let that put you off. Mask II is basically a giant aid fashioned about 1000, aimed one requiring planning and strategy. If you like the sort of thing, you'll like this, and it's certainly a must for Mask fans.

Ian Whitham

FIRETRAP



Electric
Dreams
£9.99 (tape)
£14.99 (disc)
Joystick or
Joystick or
Joystick or

IT is 9.00am and news has just come in of a major fire on the fourth floor of the biggest skyscraper in the world. Instantly, you grab your coat and dash to the scene, but by the time you get there the fire has spread. The whole building is alight, and falling debris is making life difficult for the fire service.

Hundreds of people, many with pets, are believed to be stranded inside the building. Suddenly a ball of flame from one of the upper storeys leaps across to ignite the adjacent building, and within seconds the whole area is alight.

With the fire service stretched to its limits, there is only one person brave (or dumb) enough to venture into the burning inferno to rescue the victims... you.

You quickly don your fire-fighting suit, strap the British water cannon on to your back, and climb up a fire escape. Avoiding falling debris, you must clamber across the surface of the building to rescue those people who have managed to get to a window.

Movement is smooth and easily controlled, but not very fast, which makes it difficult to keep out of the way of small outbreaks of fire.

As soon as you reach someone and climb on to the

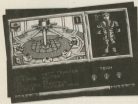
window ledge they can parachute to safety. Every time you come into contact with fire or falling objects, you fall off the building and lose a life. You can get some protection by sheltering under one of the flagpoles when you see something falling towards you, but this only works once.

A quick blast with the water cannon will usually extinguish a small fire, and allow you to progress. If you can reach the top, rescue the stranded women by using your jet pack to fly her down to the street below. Before time runs out, you can move on into the next, and even more dangerous building.

The only fault I can find with the game is the fact which, although good, begins to irritate after a while. Firetrap has good graphics, smooth action, and a good share of control. It is one of those addictive games which you just can't stop playing.

Steve Lewis

Presentation 80%
 Fair range of options.
Graphics 85%
 Plenty of detail but not much colour.
Sound 50%
 Let's face the sound doesn't.
Playability 85%
 Smooth and responsive.
Addictiveness 92%
 Please, just one more go!
Value 82%
 Will give hours of fun.
Overall 85%
 A good game.



must locate and return a stolen ruby which Venors are using for nefarious purposes, a massive weapon creation is possible.

With the aid of the Mask computer at Boulder 1600 you must choose the three most suitable leave members and vehicles for each mission. As the action takes place in different habitats - desert, reality and jungle - and some vehicles are more suited to the terrain than others, careful selection is important.

Once on the move you'll find yourself surrounded by Venors gun emplacements, and rampaged by Venor agents in various craft. Fingers in the Fire buttons, cheap!

Fuel and armour can be found lying around the scenarios which you must pass over to collect. Here enters the power element, because they're often below ledges and the vehicles tend to fly over them resulting in the Tom and Jerry effect - known as

Presentation 66%
 Good instructions with about comic strip, but no definitive keys.
Graphics 87%
 Lovely chunky cartoon graphics, and smooth scrolling.
Sound 70%
 Only bongo and tape during the game.
Playability 70%
 Too much Tom and Jerry effect for me, otherwise it plays well.
Addictiveness 73%
 Very, but since you've completed a mission you may not feel like repeating it too often.
Value 76%
 It's three games in one.
Overall 81%
 Go on, save the world again.

CAPTAIN AMERICA DEFIES THE DOOM TUBE

U.S. Gold
£9.99 (tape)
£14.99 (disc)
Joystick and
keys

The United States of America has been given an ultimatum - capitulate to the demands of Dr Magalosen, or die when he launches his invulnerable missile. As Captain America you have one hour to infiltrate Dr Magalosen's stronghold and disarm the missile.

Known as the Doom Tube, Dr Magalosen's base is constructed on a number of levels interconnected by a network of lifts. You are allowed to enter

the base on any level, but the lower you go, the more concentrated the atmosphere becomes. Your immunity level must always be higher than the toxicity of your surroundings.

Not only do the biological hazards increase as you descend, but the number and ferocity of the defense druids increase too. Having arrived at the desired level you press one of the four buttons before you, the computer console displays a few brief instructions, and you are ready to take on duty.

The area immediately outside the lift is always locked by a pair of druids which must be destroyed before you are allowed into the adjoining room. Using your trusty shield as a lethal weapon you dispatch swarms of druids while

striving to complete the task set for that sector.

The battles are all fought by colourful, fast-moving well-animated enemies. The large number of starting points on offer stops the game from becoming boring, and Captain America is a game that you'll still be playing well into 1988.

Neil Adley



Presentation 82%

On-screen messages are given before each new section.

Graphics 86%

A superb Captain America.

Sound 78%

Top-tapping title tune plus standard sfx effects.

Playability 82%

A large number of starting positions is available.

Addictiveness 84%

Fast action all the way!

Value 81%

A very reasonable price.

Overall 83%

Good class Amiga!

RIDING THE RAPIDS

Players
£1.99 (tape)
Joystick and
keys

Riding the Rapids is another of a long line of simulations. You must paddle your canoe down the river, through gates, past poles, avoiding rocks and rapids, islands, and the shore.

The aim is to beat the course

enough, there is a course designer. With this you can create a course that's easy or very, very hard. To one that's dead straight with no hazards and is only fast water. Then try it against your friends - it's a real joystick jockey!

My only criticism is that your right hand is the canoeist's right, but as he travels from the top downwards, when looking at the screen his right is on your left. Also, it's not always easy to judge which is the front of the canoe.

I found this game very enjoyable and a pleasant change. It is not easy, but with practice the records can be beaten. It is a game which must involve more than one player to get the most out of it.

Paul Steward

Presentation 85%

Nicely done.

Graphics 90%

Nicely drawn.

Sound 85%

As you'd expect, um.

Playability 85%

Good with a crowd.

Addictiveness 85%

You'll be back!

Value 95%

Definitive.

Overall 90%

Good fun.



record. As in the real sport, you must keep the red poles to your right. If you hit one, a five second penalty is incurred. If a gate is missed that's no records.

You have to choose your route very carefully as a wrong turn could make you miss a gate altogether. You can also capsize, run out of energy, or get stuck between rocks. If you suffer that particular indignity, the only way out is to abort.

There are four courses to choose from, and if that's not

GAUNTLET II

U.S. Gold
£9.99 (tape)
£14.99 (disc)
Joystick and
keys

GAUNTLET, the dungeons and dragons style arcade adventure game, was a big hit in the arcade. Gauntlet II is none on the streets, packed with even more features, and it's sure to be a smash hit.

The object is the same as before. Go on each maze-like level of the dungeon until you find the exit. Secondary objectives consist of monster killing and the feeling of long-lost treasure.

Waiting patiently beside the dungeon entrance are four eager adventurers. These are huge characters drawn in stunning colours - an impressive sight. Whether you are playing alone or with a friend, you must select two of the four before the game starts.

I could find no reference in the instructions to the number of lives allocated to a player. When playing with two subscribers each character appeared to be allowed an infinite number of incarnations.

This neat little trick does not work if you only activate one hero. As you might expect, progression down through the

dungeon is accompanied by more and increasingly nasty monsters. Be careful not to unleash Death. This guy is so mean he should carry a government health warning.

If you haven't played Gauntlet I, or are still playing it, you'll find Gauntlet II a welcome bonus. However I'd purchased my interest in Gauntlet I and didn't find the concept different enough to stimulate my enthusiasm.

Steve Brook

Presentation 85%

Classy character selection routine.

Graphics 76%

Good spriting, but small Mode O characters are a bit unimpressive.

Sound 74%

Standard tunes and effects.

Playability 75%

Matches the original, and will keep you going for months.

Addictiveness 85%

Be warned - it's a real fighter!

Value 78%

Big a dungeon - can't be beat.

Overall 77%

If you don't have Gauntlet I, or want more of the same, it's fine.

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TO ORDER, PLEASE USE THE FORM ON PAGE 53

WEREWOLVES OF LONDON



**Viz Design/
Ariolasoft**
£9.99 (tape)
£14.99 (disc)
**Joystick or
Keys**

This is an everyday tale of London folk, with a good dollop of tongue-in-cheer for good measure (jagular!).

A curse has been cast upon you. Now, as soon as the sun goes down, you develop an unrepentable thirst - not for lambrinos, of course, but for the real stuff of life. At the same time your body sprouts a plantation of hair.

The aim of the game is to rid yourself of the outside-by-fencing unrepentant civilians. There are plenty about, but you can only attack them at night. During the day you have to pass away the time like any other citizen. However you don't get it all your own way, and while tracking down potential victims the good old British lady is on your tail.

Such defenders of the establishment have an unfortunate habit of turning up just when you don't want to see them. If they catch up with you, it's off to jail if you're lucky, or a silver bullet in the heart if you're not.

The action takes place in London's network of streets, rooftops, parks, and tube stations. There's plenty to explore, particularly after you've found the tooth and filed the lid on

the covers.

The first-round graphics, particularly the town scenes, are rich in colour and nicely detailed. The figures, however, are crudely drawn. Another problem is that half the game is spent as a normal citizen, which gets monotonous, even for a peace-loving creature like me.

Any objects you collect (tube ticket, tooth, file and so on) are displayed at the bottom of the screen, as is your status - man or wolf - and the amount of blood you have left.

Werewolves of London is quite good fun and certainly playable, but for too much time is spent waiting for nightfall. In this respect, the game is first-class.

Tony Finigan

Presentation 56%

No options, vague instructions.

Graphics 76%

Colourful urban backgrounds, but poor animation.

Sound 75%

Freshly tune to accompany a treat.

Playability 74%

Easy to get into and initially addictive.

Addictiveness 63%

Not one to keep you glued to the screen.

Value 67%

Review of Werewolves!

Overall 61%

Something lacking here.

DEFLEKTOR

**Gremlin
Graphics**
£9.99 (tape)
£14.99 (disc)
**Joystick or
Keys**

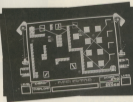
THERE are lots of things I like about this game - original, easy to learn, and indecisively addictive. On each screen is a laser gun and a receiver, both of which are fixed in position. The idea is twofold - use the laser to zap all the cells and when

when you rapidly overheat and lose a life.

You rid yourself of the little buggers by getting them under the cursor and pressing Fire - but you've got to catch 'em first and anyway, turn your back and they attack in again.

When you make it to level 50 you'll find out what the real object of the game was.

Gremlin and the authors - Yehim - are in top form. It's a nice change to see something that's both original and good fun. My only real criticism is that when you get to the higher levels you will



you've done that, form a circuit with the receiver.

Though simple in concept, each of the 50 screens is an exercise in logic. The beam strikes walls and other furniture and can be redirected by moving the cursor over mirrors which you can then select. The problem is finding out how to direct the beam to all the cells and the receiver before your energy runs out.

Other things which alter the beam's path are polarisers, reflectors which send the ray out in random bursts, mirrors which rotate automatically giving a lightshow effect, reflecting walls, and fire-gate channels which capture the beam and release it somewhere else.

The laser can overheat if you reflect it back upon itself, there is an mine, or switch it too far. And then there's the gremlins. These little rats - well blobs - wander round and twiddle your mirrors. This can upset all your delicate path-finding or even worse, put you in a situation

have to start each game from screen one. Apart from that, Deflektor gets the Wood seal of approval.

Tilley Wood

Presentation 70%

Definitive keys would have been nice, otherwise well appointed.

Graphics 85%

Nice 'V' stick without being exceptional.

Sound 64%

Uninvented, but effective.

Playability 85%

Yeah!

Addictiveness 36%

Put it down and you'll get withdrawal symptoms.

Value 70%

I'd have been happier at a quid or two less.

Overall 88%

Different, fun - my compliments to the chef.

GET DEXTER 2

PREVIEW

Infogrammes
£9.95 (tape)
£14.95 (disc)
Joystick or
Keys

GET Dexter was one of the first French CPC games to hit Britain, and what a fun & recent. Known as Carlton and Xaki in France, it featured superb 3D graphics which were faster and more colourful than the best homegrown efforts such as Frigate and Alien 3. And what's more, it had devilish gameplay to match.

So here we are two years later, and the sequel is about to be unleashed. Since the original game appeared lots of water has passed under the bridge. Every software house worth its salt - and many who aren't - have had a crack at the 3D no-horror. To stand out from the crowd a 3Der has to be truly exceptional, and even then there are always a few who'll turn up their noses.

The preview copy was one of

the few in the country. It came in just before deadline, so I haven't spent long enough with it to give you a full report. The packaging, manuals, and in-game text are in French but the British version should be the same apart from language translation. The French title is Carlton and Xaki II - The Crystal Scepter.

You'll have to forgive me if

the plot turns out to be slightly different too. I translated the book with a dictionary and half-remembered schoolbook French. The gist of it is that after freeing Xaki in the first of the series, Carlton and Xaki turn their attention to the planet Kef. In Britain Carlton and Xaki were Dexter and Scooter, but in French with the French names.

On Kef there are two races:



The Soffiers and the Goozils. The Soffiers hold power and are a methodical disciplined forward race. The big-footed alien Goozils have a spartan lifestyle, but are fearless and spend most of their time bartering.

After a series of natural disasters a new and exclusive religion (called the Goozils) has appeared. At first, they proclaim, Amritia is a mysterious building on a remote mountain side. Nobody knows who built it or how old it is, nor has anybody successfully penetrated it.

Amritia has become the focus of the new religion whose doctrine is characterised by anthropomorphism and the rejection of technology. The best virtues of

Boimp!

STIFFLIP AND CO.

Palace
£9.99 (tape)
£12.99 (disc)
Joystick or
Keys

This game takes you back to those glorious days of the Empire when Britain made a great deal of money ripping off

underdeveloped nations in the name of civilisation. The subversive Crown Chambermaster of despatch has developed a Robinson Crusoe play to lose. With this he plans to destroy the Empire and all it stands for - sheep shears for Count Chamberlain, what!

You control the main character - Viscount Stiffip - a combing aristocrat with more time and money than sense. Slipping

back 5 and 7s at the club, shooting pheasant, and watching taxis being tipped to bits, his life is getting a little monotonous.

Suddenly he gets a telegram informing him that the Empire is under threat. Enlisting the help of his pals - Colonel R. G. Borgia, Professor Braindeath, and Miss Pindbottom - he sets out to break down Count Chamberlain and nip his plan in the bud.

At any point in the game you can take the part of any of the four characters, that's if you haven't let them in a premature demise.

The central panel shows various scenarios and characters in comic-strip style, complete with speech bubbles. Down the left hand side of the screen are six icons and it is through these that progress is made. You can interact with other characters, and move through the various scenes as you would in a graphic adventure.

The graphics are competent but lack colour. There are some impressive sound effects, particularly when changing roles. The main problem is that the

basic scenario lacks any real credibility. Stiffip and Co. is a game which certainly piques your curiosity and will undoubtedly please fans of this genre. If you prefer animated games, however, steer clear.

Tony Flanagan

Presentation 81%

Well organised screen. Flanagan could have been more informative.

Graphics 60%

Comic strip - more colour would have helped.

Sound 82%

Some excellent and unusual sound effects.

Playability 88%

One to persevere with.

Addictiveness 85%

If you make progress initially, yes.

Value 80%

Plenty of game content.

Overall 81%

A good game but the whole scenario lacks credibility.



by fanatical followers are the Swags.

Crafton, the ultra-perfect android, and Xunk, his pet podocopodope, are sent to flat to solve the mystery of Aminda. In order to gain entry they must win the confidence of the Swags who know the location of a secret passage into the ancient city.

At the start of the game Crafton and Xunk are in a small town where the buildings are separated by gardens inhabited by weird fauna and flora. As Crafton reaches the edge of the playing area Xunk (goes to his side and the next room is drawn, but they don't come

over as rooms until you get inside a building.

The artist - Michel Ribo - and the programmer - Pâmi Hefelrod - have managed to get away from the feel of distant rooms, and the introduction of a continuous area is enhanced by other characters being able to wander on and off stage.

To win the Swagi vote Crafton must perform three favours. These are written on plaques in Swagi buildings and class to the problems these present - and other messages - are on plaques to be found elsewhere. Certain acts will incur Swagi displeasure so he's got to be careful.

Crafton needs to watch his energy supply which can be replenished from electrical

sockets. Contact with most of the characters - and there are some pretty fearsome appearances lurking about - will drain energy. You can put paid to most persons with mouse-clicks and dynamics.

Contact with a Swagi gives Crafton the opportunity to trade if he is carrying an object, the Swagi will offer something in return which Crafton can accept or refuse. The range of objects is huge and their use complex. Crafton can call Xunk and order him to find an object. If it's within range Xunk will hop off to collect it.

The graphics must rank amongst the best to grace a CPC's screen. Being French they have a refreshingly different feel to anything produced over

here, and Michel Ribo has done a beautiful job.

When you've succeeded in part one, the next stage takes place in Aminda. I've only glimpsed this in demo mode and the graphics look every bit as good.

There's a nice sense of humour as well. At one point I jumped Crafton on to an office chair - you know, the sort that winds round. As soon as I did, you guessed it, the chair spun round and clamped him on his blunt bum. There are plenty more surprises lying in wait, but I won't spoil the fun by spelling the French beans.

A game of this size and complexity needs awards to reward properly and as I haven't been able to do that I wouldn't be far to give Get Dexter 3 a rating. I will say that everything I've seen so far looks like one of 1989's memorable games, and what's more, Get Dexter 3 is there in far less.

On that basis it's got to be fantasmagorical value for money so I have no hesitation in recommending it to adventure-lovers. **Tiffany Wood**

SAPIENS



Loricels
£9.99 (tape)
£14.99 (disc)
Joytack or
keys

SAPIENS is a semi-realistic graphics window and menu driven adventure with arcade overtones. I haven't seen anything quite like this on the CPC before, although the copyright notice says it was

written in 1988.

The top half of the screen shows a display. You can choose a landscape view or a side view, in which case you can see your character.

Underneath and to the left is a window containing a list of options. It includes the usual adventure type commands such as Talk, Pick Down, Say and Give. Sub-options are revealed in other windows.

The Move command lets you try for an object in a basket. These must be clipped out of

text by moving a first triangle around a spreadsheet shape and pressing the fire button to ship. Not easy.

The review type, on-release, failed instructions as I can't say exactly what your objective is. Basically you wander around meeting people and animals, picking up things to eat and generally trying to survive.

Your biggest health problem, however, will be finding water. Hares appear every so often but I haven't worked out how to catch one yet. There are no commands to Use or Throw anything.

You'll meet lots of people, most of whom will be friendly if you say the right things.

Some of the game needs tidying up. For example, the health window may say you are a little hungry, extremely thirsty, tired out, seriously wounded - and dead!

I suspect hardened adventurers may dislike Sapiens as too restrictive. Like would-be adventurers - like me - however may find it more accessible than ordinary text and typewritten adventures.

Ian Waugh

Presentation 80%

A great concept nicely implemented.

Graphics 90%

Well drawn with good animation.

Sound 80%

Gilles Boulet has created an excellent atmospheric soundtrack.

Playability 80%

You never have to struggle against the program's built-

in vocabulary although it is restrictive at times.

Addictiveness 80%

Exploring the landscape and talking to the characters is fascinating.

Value 80%

It's worth looking at.

Overall 80%

Seasoned adventurers may be unhappy with the sometimes irrational responses and restricted choices.

AGENT XII

Mastertonic
£2.99 (tape)
Joystick
or keys

If you thought that you'd managed to dispose of the Mad Professor, you're very much mistaken. Even though you may have fooled his attempts to kidnap the President, you failed to defeat him really and he is back with a vengeance.

From his hideout on the moon he is planning to unleash

fresh contact with one of the Professor's minions taps your strength, so it is usually easier to dodge out of the way than stand and fight.

If you find the right place at the bottom of the screen, you can avoid most of your attackers with just an occasional movement of the joystick.

This game lacks a number of the standard features we've come to expect such as a high score table and multiple lives. This detracts from its long term playability.

Technically, Agent XII is more

WESTERN GAMES



**Magic Bytes/
 Ariolasoft**
£8.99 (tape)
£14.99 (disc)
Joystick
or keys

JOHN Miles would have loved this one - six games for the basic shoot 'n' beat 'em up, gangster'n' mode - mean. Then again, perhaps he wouldn't.

Instead of the typical wild west scenario, Western Games shows how the true cowboy really spent his time - playing slot games in the local saloon!

The first is gun wrestling, in which you try to knock your opponent's hand by having it slaver upon a spindle.

The screen shows a typical barroom scene with you and your opponent at the table and an audience of friendly slugs looking on. The two cards are displayed in detail in the left and right corners of the screen and rise or fall depending on how well you perform.

One of the more playable games involves you in a fast shooting competition, here you and Mr. Slow fire consecutively at five different types of guns, held by two rather foolishly volunteers.

In a similar way to gun wrestling, airguns show the movements of bullet to gun. Once the gun has been drawn, it's then a matter of targeting as quickly as possible and firing - hoping that you are both quicker and more accurate than Mr. Slow.

Gold-spriting is the most bizarre in the collection, here

you shoot tobacco and then spit it out with the object of landing in the other fellow's pint. Sometimes it's just a little too tempting to overshoot and hit him in the face!

In other games, what you take in still you can make up for with wonderful tactics in the missing competition, your task is to fill a gall faster than the other guy. As long as the referee isn't watching you can also give your opponent a swift shove in the ribs which, if it doesn't wind him, will certainly break his rhythm.

On the whole Western Games has some nice comic touches, interesting graphics and good sound effects. It's a pity that most of the games lack playability.

Tony Managan



his terrible 20-Day to inflict terrible terminal pain on the whole human race.

Only you, Agent 88, can foil him in his game plan to take the world economy into total chaos with space-as-an-escape-remaining means.

Away to the moon you fly to fight just the wacky weapons and find your way into the secret sub-surface stronghold of the enemy.

With a plot line that you could be forgiven for thinking that this is going to be something completely different. In fact, it turns out to be just another shoot-'em-up.

Graphically, it can't be faulted. As you battle through wave after wave of alien adversaries, you slowly make your way across a highly detailed landscape of planets, groves and strange buildings.

Throughout your flight, the musical accompaniment is excellent. Unfortunately, although you can control your craft using defined keys or joystick, there is no way to turn around and shoot the enemy from behind,

thus competent, but unfortunately it is almost as addictive as watching grass grow.

If you haven't already got a shoot-'em-up - and - want something that's cheap and colourful, this game can be recommended. On the other hand if you've already got a few games of this type, it'd give this one a miss.

Steve Lucas

Presentation 60%
 Simple instructions and no high score table.

Graphics 80%
 Lots to see.

Sound 85%
 Good music throughout.

Playability 60%
 Fair choice of keys.

Addictiveness 40%
 How you ever get the 'you're later here before!'

Value 85%
 Not bad for a budget game.

Overall 65%
 Out.

Presentation 80%
 Two player option, copious and futuristic instructions.

Graphics 77%
 Large, colourful, comic graphics.

Sound 66%
 Sound effects are very atmospheric, great tune in the dancing competition.

Playability 46%
 Some of these games are actually too demanding to sustain interest.

Addictiveness 30%
 Not one you'll want to return to too often.

Value 69%
 If you preserve, it might be worth your while.

Overall 61%
 Different but lacks playability.

2 CLASSIC
COMPILATIONS

Now you can obtain some of the all-time classics on the CPC for as little as £1.20 each!

Beau Jolly have brought together 10 top-quality games in two value-for-money packs.

What you get in
Five Star Games

- Zoids
- Equinox
- Egnatory
- Who Dares Wins II
- Three Weeks in Paradise

What you get in
Five Star Games II

- Dandy
- Freestyle
- Cauldron II
- Alien Highway
- Doomsday Blues



There are no 'stocking fillers' here – every game has been highly commended, and many have been awarded coveted Amiga Accolades.

3-Pak Volume 2 contains some of the very best games of the last 12 months.

There's real-time action with *the Eagle's Nest*, the futuristic rescue game *Baby*, the realistic flight simulator *Boe* and the superior shoot 'em up *Lightforce*.

In *Shadowray Rider* you fight street gangs on the moving walkways, and in *International Kendo* you compete against another player or the computer in this top-notch oriental combat game.

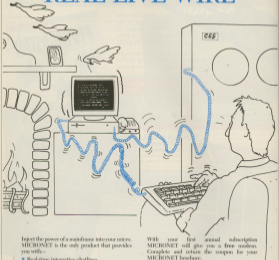
This magnificent compilation is only available at a special offer price with a new subscription or a subscription renewal.



| Suitable for | Product | Format | RSP | Special reader offer | YOUR SAVE | Offer including subscription | YOUR SAVE |
|--------------|--------------------|--------|--------|----------------------|-----------|------------------------------|-----------|
| CPC range | Five Star Games | Tape | £8.95 | £7.95 | £1 | £29.95 | £4 |
| CPC range | Five Star Games | Disc | £14.95 | £13.95 | £1 | £29.95 | £5 |
| CPC range | Five Star Games II | Tape | £8.95 | £7.95 | £1 | £29.95 | £4 |
| CPC range | Five Star Games II | Disc | £14.95 | £13.95 | £1 | £29.95 | £5 |
| CPC range | 3-Pak Volume 1 | Tape | £9.95 | — | — | £29.95 | £4 |
| CPC range | 3-Pak Volume 2 | Disc | £14.95 | — | — | £29.95 | £5 |

TO ORDER, PLEASE USE THE FORM ON PAGE 53

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SUPER HANG-ON

Electric Dreams
£9.99 (tape)
£14.99 (disc)
Joystick or
Keys

FRANCY becoming Britain's best (Sam Steane)? Well, why not keep away from the noise and grime of the race circuit and practise your motorcycling skills in the comfort of your own home?

You are given the choice of four continents on which to

available courses at a low enough speed, but your time will probably run-out before you cross the finish line.

The controls are particularly responsive and there is even a sensitivity adjustment. I found the medium setting ideal for learning to race with the controls, but the high setting better for testing the more difficult courses.

The graphics are good, but quite simple, and the sound is very basic. There is no race order, as you do not get a place position when you cross the finishing line.

However, the game is very



race, each being equivalent to a different skill level. Africa is the easiest - the wide open plains provide a relatively easy route for motorcyclists, and this stage can be completed at full speed. As the difficulty increases, the roads narrow and peak in for more twists and turns per mile. In addition, the roadside becomes increasingly littered with obstacles, thus reducing your likelihood of survival should you stray into the verges.

The difficulty levels have been well thought out. Each is noticeably harder than the previous one, but none is totally unplayable. Skuffing the road edge loses speed rather than automatically ridding you of your death. Even making other riders die does not prevent you from continuing to race, although your speed is cut the moment after such a bump.

It is fair to say that the game's emphasis is more on the speed of course completion than fine control of a racing motorcycle. It is possible to negotiate all the

playable and with the provision of selectable skill levels and bonus laps for fast times it becomes quite addictive.

Clive Gifford

Presentation 86%

Good options, straight-forward layout.

Graphics 78%

Not really arcade standard, but effective nonetheless.

Sound 57%

Fair, they could have done more than the busy whine.

Playability 94%

Great adjustable sensitivity, courses designed with skill.

Addictiveness 85%

Fastest times and bonus levels help make you play again.

Value 76%

Not bad at all.

Overall 75%

Good motorcycle racer with the game more important than realism.

THE GALLIP CHART

TOP 20

SOFTWARE

| THIS MONTH | LAST MONTH | TITLE (Software House) | PRICE |
|------------|------------|--------------------------------------|-------|
| 1 | ● | OUTRIM US Gold | 9.99 |
| 2 | ● | MAGNIFICENT SEVEN Ocean | 9.95 |
| 3 | ▲ | SOLID GOLD US Gold | 9.99 |
| 4 | ▼ | PRO SKI SIMULATOR Code Masters | 1.99 |
| 5 | ▼ | GAME SET MATCH Ocean | 12.95 |
| 6 | ▼ | GRAND PRIX SIMULATOR Code Masters | 1.99 |
| 7 | ◀ | LIVE AMMO Ocean | 9.95 |
| 8 | ● | MATCH DAY 2 Ocean | 8.95 |
| 9 | ▼ | DEEZY Code Masters | 2.99 |
| 10 | ● | COMBAT SCHOOL Ocean | 8.95 |
| 11 | ▼ | BMX SIMULATOR Code Masters | 1.99 |
| 12 | ● | ELITE COLLECTION Elite | 14.95 |
| 13 | ▲ | SOCCER BOSS Alternative | 1.99 |
| 14 | ▲ | INDIANA JONES US Gold | 9.99 |
| 15 | ▼ | JOE BLADE Players | 1.99 |
| 16 | ▼ | RENGADE Atargine | 8.95 |
| 17 | ▲ | 10 PACK Oramin Graphics | 9.99 |
| 18 | ● | STAR WARS Demark | 9.95 |
| 19 | ● | FIVE STAR GAMES 3 Bazo Jolly | 9.95 |
| 20 | ▼ | CRICKET INTERNATIONAL Alternative | 1.99 |

There are seven new entries this month - as the full-priced games have made a comeback, with Outrim and the magnificent Seven compilation entering at number one and two. There are a further five new games to watch out for, too.

WIN A TELLY!

... in our sensational
super small screen
Straight Six sizzler.

To celebrate the launch of Loriciels UK, we present this easy-to-enter competition. By correctly answering six simple questions and writing a humorous tie-break sentence you could win one of the fabulous prizes shown here!



1st prize

Casio TV1500 hand-held 3.5
inch colour TV - VALUE £250



2nd prize

Casio TV400
pocket 2 inch
colour TV
- VALUE £150

Straight Six

A compilation of six games
previously only released in France:
3D Fight, a space shoot-'em-up; Billy, an
arcade adventure; Bosses, a colourful
simulation; 1607, an exciting 3D road
game featuring a bank of five levels; Flash, a
sports arena where you can change your mode
of transport; and 204 (204), a futuristic
adventure.

Prizes for runners up

30 copies of Loriciels latest
release, Straight Six
Greatest Hits on CD-ROM!

3rd prize



Casio TV200 pocket
2 inch black and white
television - VALUE £90

How to Enter

Please answer the following questions
relating to the Straight Six:

- 1 What is the number of the league?
- 2 What is the significance of 2-410-82074?
- 3 What is the common name for an old
weapon?
- 4 What number is opposite the 6 on a die?
- 5 Name six different Amstrad computers.
- 6 How many brain cells has the dollar gull?
(Hint: More than zero - we think)

Now write a sentence or phrase containing
the words/six using no more than sixteen
words. The more humorous the entry, the
greater chance you have of winning.

ENTRY FORM

Closing date March 31. All entries must be on this form - or a photocopy. Only one entry per person.

Please fill in your answers:

1. _____ 4. _____
2. _____ 5. _____
3. _____ 6. _____

My winning sentence:

If I win I would like Straight Six on tape disc please tick!

Name _____

Address _____

Please address your entries to:

Pocket TV Competition
Competing with the Amstrad CPC
Europa House, Addington Park, Addington,
Macclesfield SK10 5NP



Pixelator's blow-up window in action

Paint a pretty pixel

PIXELATOR is a machine-code pixel editor offering functions you'd normally find only on the most powerful graphics packages. Most of its facilities can easily be accessed using the cursor keys in conjunction with Shift, Control or Caps.

The idea is to make editing those fussy bits of pictures much easier by magnifying them. Although Pixelator is probably most useful when used in conjunction with your normal art package, you can also use it to design screens from scratch.

I built one limitation into the system — the program only runs in Mode 2. This is because of the maths required to get the finest pixel scrolling and to make manipulation as fast as possible.

A more general routine would be a lot slower (and longer) and, anyway, I think you get the best effects from having all 16 colours available in Mode 2.

When you run Program 1 it saves a binary file called PIXEL.OLD to tape or disc. This file can then be loaded and run at a later date by a simple Basic program such as this:

```
100 ROBO 0
110 MEMOZ 12711
120 I=0: I1(100,80),I=200
130 I=0: I1(111),I=1000
140 I=0: I1(111),I=1000
150 I=0: I=999
```

You will notice that MEMOZ has been set to 5077 by the MEMORY command in line 110. All programs that use Pixelator must do this as a copy of the screen is stored at 54080 so the memory above this address must be protected.

When the code is called — as in line 140 above — you are presented with a

Edit your pictures in minute detail with ROBIN NIXON's Pixelator

| Tab | Code picture |
|-----|-----------------|
| 1 | Change into |
| L | Load picture |
| S | Save picture |
| B | Return to Basic |

Table 1: Main menu keys

menu offering a number of selections — see Table 1.

The colours assigned to the links are as you left them when you entered Pixelator. So if you have set link 3 to yellow in your Basic program, that remains.

However, if you are not happy with the colours which have been chosen, you can change them by selecting 1 for links from the menu.

You are then prompted for the colour number which you must enter in hexadecimal (0 — F). If you are unsure about hexadecimal, the colours are listed on the screen next to their selection numbers.

Having selected an ink number you are prompted for a colour to assign to it. You choose one with the cursor keys. The left arrow selects ink 0, the right arrow selects ink 26 and the up and down arrows select the next or last ink.

When you have made your choice, press Return and select the second link — make this the same as the first if you

don't want the colour to flash. The keys required are summarised in Table 2.

If the currently loaded picture is not the one you wish to edit, you can load a new one by pressing 1 (for Load picture). Likewise, pictures you wish to keep can be saved by pressing 5.

Pressing Tab takes you into edit mode. Here you see the whole of the picture you are editing with a window, taking up a quarter of the screen, containing a blown-up portion of it.

| | |
|--------|-----------------|
| ← | First colour |
| → | Last colour |
| ↑ | Next colour |
| ↓ | Previous colour |
| Return | Select colour |

Table 2: Ink selection keys

If the part you want to look at is obscured by the window, you can move it using the cursor keys with Control.

Once you've got the window where you want it, you can move the cursor to its required position using the arrow keys on their own. When the cursor reaches the edge of the

window it automatically scrolls, showing you where you are. If you prefer to keep the cursor at a certain position within the window you can still scroll it by using the arrow keys with Shift.

Sometimes the window can get in the way too much for you to decide exactly what you're going to do next.



| Normal | Basic | Control | Copy |
|--|---------------------|-------------------|-----------------|
| ← Cursor left | Scroll window left | Move window left | First colour |
| → Cursor right | Scroll window right | Move window right | Last colour |
| ↑ Cursor up | Scroll window down | Move window up | Next colour |
| ↓ Cursor down | Scroll window up | Move window down | Previous colour |
| TAB Enter main menu CLR Hide windows SPACE Set plot ESC Return to Basic | | | |

Table 10: Edit mode keys

To avoid this, pressing **Alt** at any time hides the window.

To select the current drawing colour use the arrow keys in conjunction with the **Copy** key. All these commands are documented in Table 11.

If you would like a copy of the complete source code (which unfortunately is far too long to fit in the magazine), written using MacroM, write to me enclosing a stamped addressed envelope.

Program 1: Plotwin

```

100 GOSUB *****
110 GOSUB *****
120 GOSUB *****
130 GOSUB *****
140 GOSUB *****
150 GOSUB *****
160 GOSUB *****
170 GOSUB *****
180 GOSUB *****
190 GOSUB *****
200 GOSUB *****
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880 GOSUB *****
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940 GOSUB *****
950 GOSUB *****
960 GOSUB *****
970 GOSUB *****
980 GOSUB *****
990 GOSUB *****
1000 GOSUB *****

```

Turn to Page 26 E

ADVENTURE

A new era dawns Gandalf on the world of the adventurer

LAST November an adventurer's convention was held in Sutton. Unfortunately, I was unable to attend and only now am I beginning to receive reports about it.

Many of the comments have been favourable — though some have not — but the overall impression seems to be that a convention is a marvellous idea and could be the first of many.

I'm pleased that adventures are reaching a wide enough audience to justify such a gathering and I visit the organisers every season.

Steve Cannon is in difficulties with two adventures. In *Minotaur*, he develops the paper he must examine the tray, empty the correct bottles into the tray, examine the tray again and develop the paper.

In the *Goggit*, Steve has found the diary but has not worked out how to use it to get through the door. One of the numbers entered as a five-digit number will allow him to leave.

Chris Frases from New Zealand has asked for help with *Snowball*. His main problem is that he cannot get his

light to work. The command he needs is **LIGHT LAMP**, but this will only work if he already has a battery for it.

If you haven't Chris, drop the winner, use the screwdriver to get the lamp, and put it in your lamp. You will now be able to climb the web. If you are still stuck, send me an IRC and I'll send you a complete solution.

Susan Bray is also having problems with two games. In the *Big Steeps*, she keeps getting her dynamics wet and will continue to do so unless she wears the mac. In *Seabase Delta*, she needs to startle the hair by blowing a bubble with the gun. This will get her the final ingredient for the parachute.

Dawn Adde is also in difficulties with *Seabase Delta*. Use the hammer, nails, plank and barrel (from the tavern) to make a sea-saw. This will enable you to get to the platform. The cannon ball? Lower the cannon with the piece of wood.

BUG HUNTER

GRAHAM Wheeler has written to tell me about a bug in *Eight's Revenge*. When you load your saved data from Part I into Part II you are told the mesh is two feet square. Removing your goggles gives you the further information that you are outside a hut, but you can't move as you are told it is dark.

This should not be the case, as a new day has dawned. Graham goes on to say that he has successfully completed Part II on another machine and the Amiga version is definitely bugged. Going to deadlines I hadn't quite completed Part I when I wrote the review, but I have since discovered the bug myself. So be warned!

HALL OF FAME

Lord of the Rings

A text sheet by M. Jennings

- Tell Merry to climb into the silver lake and then get out again. He will have two green jewels.
- To save Sam, Pippin and Merry from the willow, ask Tom Bombadil for help.
- When the real lady asks you into her tower, do not enter.
- When you enter Rivendell make sure you have the pony with you.
- Do not go through the Misty Mountains.
- When near to the outline of a door, say FRIEND to it.
- When in the corridor with the carved heads, push the eagle's head.
- To get past the balcony, send Gandalf ahead of you.
- When at the riverbank in Loth Lorien, ask the boatman off for help.
- Ask Galadriel for help.

Minotshadow

A solution by Iain Purdie

Part I

N, enter hut, take straw, E, E, take metal, E, take wine, W, W, S, drop metal straw, E, tie vine to rock, down, W, take rock, dig, take reed, E, up, W, drop rock, N, read map, N, N, E, N, E, E, S, S, E, take rum, W, N, W, W, S, W, S, S, S, take oil, drop rock, bang rock with metal, give rum, drop rock steel, N, W, S, hill man, S, take cleaver, W, N, N, take canvas, drop cleaver, S, S, E, E, N, N, E, E.

Part II

E, E, E, S, search man, take oil, N, W, N, E, give hat, E, examine drink, chase man, drink (poison), S, W, take and examine hat, W, S, W, M, give money, S, S, give money, M, W, fish debris, read paper, think Arcman, drop coin, hat and paper, E, E, N, N, E.

Say Chandab, give money, W, S, S,

W, N, R, enter plane, drop ticket, N, W, booth 11, search man, read note, think Jared, read ID, think Mob Masters, drop ID and note, E, E, buy tickets, M, N, W, W, N, up, S, E, N, wear canvas.

W, take and read parchment, drop parchment and canvas, E, S, W, N, down, S, E, E, E, S, E, S, dig, take and read letter, drop leather and shell, W, N, W, W, W, say AN11448, open box, take gun, give box, E, N, W, W, N, up, S, E, N, N, N, E, shoot man, take and read message, think William, End.

Reverend Story Part II

A solution by Graham Wheeler

E, N, E, get the globe, W, W, N, get the rope, E, E, NW, remove the planks, down, SE, S, get the knife, N, W, tie the rope, E, NW, up, E, E, (you are pushed), W, N, W, N and get the key to save beheading with the tin of

HALL OF FAME (Continued)

4 From Page 38

poison, SE, SW, down. Cut the web, drop the knife and leather, W, SW, unlock the cell, S, get the poison, it coin drops out, get the coin.

Drop the pouch and bag, W, W, drop the coin, W, get the golden key, E, E, E, down, up, E, NW, up, S, S, S, E, you will see Aurya and Felaur, get them both to complete the game.

The solution to Part II was published in the August 1987 edition of *Computing with the Amstrad CPC*.

Saviour -
A solution by Graham Whistler

NE, read sign, wait, wait... you wake up in bed after a nightmare.

Get up, W, read note, drop note, S, S, W, get and read matchbook, get calendar, get and open coxhe vial, dress potion, drop vial, S, open receptacle, put matchbook in receptacle, close receptacle, E, get scroll, examine scroll.

Guano Meat, examine volume, W, N, W, get and examine scroll, Guano Gaspar, learn Gaspar, Gaspar yourself, E, N, W, move hangings, get key, examine drawer, open drawer, get and open box, get amulet, drop box, get journal, read journal and note password (it will be a creature from the infernal).

Get infotape, drop key, examine and drop infotape, E, S, S, down, examine trunk, press (lookout) button (press button in colour order of password creature), get and examine scroll.

SW, open receptacle, (mail should have arrived), get, read and drop leaves, get orange vial, cast Amfur on Barbas, NE, down, down, S, W, learn Iyuk, Iyuk yourself, W, W, N, get coin, S, E, learn Iyuk, Iyuk yourself, E, E, sleep, learn Gaspar, Gaspar self, N, up, up, E, NE, learn Pulver, Pulver river, down.

NE, get and examine scroll, Guano Fawsep, get amber vial, get guano, learn Iyuk, down, SW, up, W, W, Iyuk yourself, NE, SE, E, examine Ringooh, pull rope, examine flag, get apple vial, E, look into cannon, drop guano into barrel, get and examine scroll, learn Iyuk, W, W, Iyuk yourself, NW, SW, E, E, down, down, E, water gnome, give coin to gnome, search poison, E,

S, N, N, drop off last spellbook, Now wait until you are tired and then sleep. Learn Gaspar, Gaspar yourself.

Learn Fawsep (about six times), drop spell book, E, Fawsep yourself, N, E, S, S, W, down, E, N, N, wait, wait and the spell will wear off. Fawsep yourself, up, up, S, E, wait, wait, wait and spell will wear off again, get scroll, drop scroll into hole.

Fawsep yourself again, W, W, S, E, down, down, W, W, wait, wait, Fawsep yourself, up, up, N, N, down, E, S, E, N, down, wait, wait, Fawsep yourself for the last time, W, S, W, up, N, wait until spell wears off again, get all and sleep. Learn Gaspar and use it on yourself, E, S, E, get parchment scroll and examine it. Guano Swames, W, W, W, W, W, SW, SW, S, SW, W, A barrier will stop you progressing further and a gnome will appear, give him the coin and you may now enter.

Return to Oz -
A solution by Dawn Adoti

Dawn sent this solution to Tiffers who passed it on to me. Unfortunately, I have never heard of this adventure and would welcome any information on it. The command structure suggests that it could be an arcade-adventure. Does anyone know for sure?

Search the cage, get Billinda and the key (you'll also get some slippers), get the leaves, search the furnace, get the ladder box, leave through the door on

the left hand side, search the room, get the pumpkin, leave, leave through the door on the right hand side.

Talk to the doctor, list, use the ladder box, talk to the girl, leave, leave on the yacht, leave, leave, search the sink, get the triangular key, leave towards the emerald city, leave through the brown door, search the tin man, get the rope, leave through the lowest door.

List, use the key, look, list, use the triangular key, talk, leave, talk to Whizzer, list, use the rope, get the stone key, leave, use the triangular key, leave through the door, talk to princess, leave, talk to jack pumpkin, search, leave, search the bell.

List, drop the slippers, leave, list, use the triangular key, leave through the floor, leave through the grid, leave, list, use the stone key, search the cap-loaded, search the jewellery box, get the mirror and ladder, leave through the end of the tunnel, list.

Use the mirror, leave through the end of the tunnel twice, list, use the ladder, talk to the gump, list, use Billinda, leave, talk to the king five times, leave, talk to the ace, leave, talk to Billinda, search, get the egg, get Billinda, list.

Use the egg, look, search in the dust, look, get the ruby slippers, list, use the ruby slippers, look in the mirror, talk to the scarecrow, get the mirror, list, use the mirror, talk to the girl, list, drop the ruby slippers, talk to the girl, End.

Top Ten Competition

THERE wasn't enough space last month to publish the all-time top 10 list so here it is:

- 1 Hitchhiker's Guide to the Galaxy.
- 2 Leather Goddesses of Phobos.
- 3 The Pawn.
- 4 The Boggs.
- 5 Bored of the Rings.
- 6 Red Moon.
- 7 Dungeon Adventures.
- 8 The Lurking Horror.
- 9 The Colour of Magic.
- 10 Worm in Paradise.

There was a large variety of entries,

but when they were collated the clear winner was *Pain Parology*.

Pain wins *The Pawn*, *Leather Goddesses of Phobos*, and *The Silicon Dreams Trilogy*. I don't think there are any surprises in the selection, just a well-balanced mix between complexity and humour. What I did find surprising was the absence of budget titles. Price is obviously not a factor when considering the lasting qualities of an adventure.

Congratulations Pain, and thanks to all those who took part. I look forward to the next one.

HAUNTED HOUSE



HAUNTED House is an excellent, if rather costly, adventure from Incentive. It comes complete with Novas, a space adventure. Both games were reviewed in our December 1987 issue.

COMPUTING FOR
AMSTRAD

Courtesy of G. Wheeler

Knight Orc

**Rainbird/Level 9
£19.95 Disc only
CPC6128/484 with
ram pack**

Most good adventures never stop to think about the poor ones they fall in their search for treasure. In *Adventure Quest* you killed many, in *Dungeon Adventure* you killed their lord and almost finished them off.

A few remain in the Dark Tower, and recently they made a foray into the surrounding countryside. After some initial success the marauding ones were surrounded by a large army. They managed to escape by killing one of their number - you - behind to challenge the army's champion.

At the time you were unaware of this as you were sleeping off an over-indulgent drinking session. You awoke due to the back of a horse on a jostling bed facing the army champion. Being a typical one - fearless in large numbers, fierce enough to frighten a small mouse, and strong enough to raise a glass of ale - you do not last very long.

Your apparently useless body is dumped on the local garbage heap and it is here that some hours later you awake. Your task in this three-part graphical adventure is to find a means of repelling your fearless companions.

An initial examination of your surround-

ings reveals that there is a multitude of treasures lying around - almost as many as there are adventurers looking for them. Further exploration reveals that your task is to cross a broken bridge. The solution to this problem is simple - find a rope.

As you travel around you realise that the rope will have to be made up from smaller pieces which you must find and collect. Many are evident. A letter around the goal's neck, a washing line inside a tree, and a flyrod on the flagpole. Other pieces have to be obtained by solving a variety of problems.

A green knight who keeps challenging you to battle is almost invincible, though his horse isn't. The drawbridge need not be opened and presents a vertical answer to another piece of the rope. The lowest step seems immovable but the code provides help if you can distract his attention.

Most of the problems in the first part are fairly easy to solve, but as you progress things change and solutions rely on successful character interaction. It's not just I approve of the degree to which the later stages depend on this.

My first thoughts are that it is likely to divert your attention from finding how you solve a problem to looking for the way to get other characters to help. I think there may be a tendency for software writers to use this as a means of avoiding having to create original puzzles.

The disc behind Knight Orc is the most original in a long time, but I feel the implementation leaves something to be desired.

Having adventures roasting around the scenario is potentially the funniest case of non-relevant I have seen but it is overdone - there are far too many of them.

Whatever you are identified as an orc you are attacked - usually with fatal results. A check offers some degree of immunity, but you are humbled with annoying regularity.

As with *Game's Ranger*, the game allows you to FIND objects of characters, GO TO or RUN TO locations, objects and characters and so on speed up the gameplay considerably. I do think, however, that such a command structure can make you lose touch with the feel of the game.

The initial frustration I felt when I first loaded Knight Orc, though eased, still remains. It is simply too much trouble to play. Some are the days of smiling gaily through an adventure. Here you are hampered from all sides by adventures greedy for any treasure you may find and intent on your death when they discover your identity.

Although the game is a masterpiece of programming, I think Level 9 has gone slightly over the top. The concept is original and with great potential, yet it is too heavy.

My only reservation is that it will not run on an unexpanded CP464. As I can see this trend towards disk-based CP6128 - only games makes me sad and I hope it will not continue.

One final point for readers who lack a second disc drive. Both the adventure and *Game's Ranger* would not run on my A drive. In both cases I had to backup the games on to a blank disc and then re-copy the programs on to the original.

I have not had problems with any other review discs in the past and am inclined to think that the duplicating methods used for these programs may be a bit dodgy if your drive is slightly out of alignment.

This is not a game I shall return to. It's one of those you are likely to either love or hate, so it's worth a look. I didn't love it - but you might.

Presentation 85%

Up to Rainbird's usual high standards.

Atmosphere 54%

Too atmospheric for my taste.

Frustration factor 26%

This mark is not just for how hard it is but also the satisfaction obtained after finding solutions.

Value for money 53%

Twenty quid? No way!

Overall 57%

You'll love it or hate it. Find out which before you part with your MONEY.



Deposits and withdrawals

IAN SHARPE continues his investigation into the CPC6128's extra ram

I SHOWED you last time how the extra ram in your CPC6128 sits alongside the main memory pool, and why we need Bankmanager to communicate with it. Now we'll see Bankmanager's commands in action.

From side one of your system disc run Bankman. This will install Bankmanager in memory. Before we do anything with the second bank we must tell Bankmanager how long the records are going to be. If they are going to be 10 characters, the instruction:

```
!BANKOPEN,10
```

must be in the program before you use any other Bankmanager commands. The Answerd will then divide the extra ram into blocks of 10 bytes, one after the other like railway carriages. BANKOPEN has another effect, as we'll see in a moment.

When reading or writing a record the CPC must know which one it's dealing with. Bankmanager keeps a note - known as a pointer - of the current record number. After you have read or written a record the pointer moves up to the next one - just as the screen cursor moves along when it's written a character.

If you read record 100, the pointer automatically moves up to 101. If you read another record without specifying which one, Bankmanager refers to the pointer, reads record 101, and increments the pointer to 102.

A side effect of BANKOPEN is to re-zero the pointer to zero - to the first record. Having opened the extra ram with a specified record length we can start putting things in there. The command to write a record is:

```
!BANKWRITE,10,1,01,100000
```

```
001
```

```
!BANKWRITE,10,01,01
```

When writing information it's possible that a problem will occur. If it does, Bankmanager has a way of telling you something went wrong. It puts a code number in the variable immediately after !BANKWRITE. Here I called it c% but you can call it anything you like as long as it's an integer - that is with % after the name or declared in a statement such as `DEFINT c`. Don't forget the 0, it's vitaly important.

After writing the record your Basic program should check the contents of c%. If it's -1, the number of the record you tried to access was bigger than the available number of records. If you



... Bankmanager has a way of telling you something went wrong!

get -2, it's resetting the machine and starting again.

If that's still no joy, I hope your guarantee is still in force because -2 indicates either a hardware fault or a faulty Bankmanager program.

If there were no problems, c% will contain the record number just accessed. The internal pointer will be one greater than this because it has moved on to the next record in the chain.

As you may have guessed, the next parameter - `all` - is the string being written. The third parameter - `record` - is optional. With it you can specify the number of the record to write to; in effect you're changing the current record number. If you do that, after the operation the pointer will move on and be one greater than `record` and c%.

Reading a record out again is very similar:

```
!BANKREAD,1,1,10,record
```

```
001
```

```
!BANKREAD,1,1,10
```

The contents of the record - whether it be the current record or a specified number - are copied into `all`. The variable c% contains a code with

the same meaning as the ones you get after a write operation.

Before using the two commands there are some points to remember.

- c% must exist before it is used with BANKREAD or BANKWRITE. That's easy to arrange - put `c%=0` after the !BANKOPEN command.

- The same goes for `all`. This isn't a problem when writing records because you'll have got something in `all` before !BANKWRITE. If you also use `all` for reading, `all` will be well as long as `all` wasn't shorter than a record. You wouldn't want to read something before anything had been written so `all` will have been created earlier in the program.

- If, on the other hand, you use `all` for writing and another variable - say `all2` - for reading, you'd need to bring `all2` into existence before using it with BANKREAD. This creates space where the contents of a record can be copied to. To do this, at the same time as you create c% put:

```
!BANKOPEN,10
```

where `n` is the record length. Then you'll have `all2` big enough to take the contents of a record.

- When you switch on your machine the extra ram is full of random numbers. Say you've specified the record length as 10 and store a 10 character string in the extra ram. The record is gone into will have the 10 specified characters plus five random ones on the end. We don't want these, and they could easily confuse matters later.

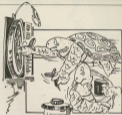
In another instance you might be writing the 10 character string to a record that's previously been used for a string of between 11 and 15 characters. The first 10 will be overwritten but the extra ones will still be there, now tagged on to the new string.

In either case, when you come to

Turn to Page 60 P

Meet the locals...

IAN SHARPE concludes his Logo series with a last look round recursion and local variables



A RECURSIVE procedure is one that calls itself, and the use of recursion tends to result in elegant programs producing complex results. There are two sorts of recursion, the simplest is known as tail end:

```
to runings
  fd 8
  rt 4
  runings
end

to runings
```

The first lines of `runings` tell the turtle to go forward eight units and turn right by four degrees. Then the procedure calls itself and the turtle again goes forward and turns right, calls itself, and so on. Eventually this generates a circle - quite good for a procedure with only three instructions.

This procedure will continue indefinitely because it never reaches `end` and therefore never returns. The point where the procedure calls itself is next to `end` so even if it did eventually return there would be nothing more to do. Knowing this, Logo doesn't bother to keep track of how many times it has been through the cycle, or stores up a list of `ends` to come back to.

If you insert an instruction between `runings` and `end` - it doesn't matter what - Logo knows there is unfinished work and makes a note that it might have to come back to complete it.

This is no longer tail-end recursion and if you let the modified procedure run as before, eventually the stack of notes - one for each time the procedure recurses - piles up to fill the area set aside for it. At this point Logo will give up with an error report.

This is another type of recursion and

before tackling it, we need to know about local variables.

Variables store values - we all know that - but you probably haven't realized that they can be either local or global. The difference is that a global variable can be accessed from any procedure in the program whereas a local one can only be seen from the procedure it's local to, or one it calls. As far as other procedures are concerned, a local variable doesn't exist.

To make some sense out of that, type this in:

```
to proc1
  ask 'fred ?
  or else
  proc2
end
```

```
to proc2
  ask 'fred ?
  or else
  proc2
```

Running the procedure `proc1` will result in `?` being printed followed by 1 and 1 again, if you call `proc2` and add a line:

```
(local 'fred)
```

straight after the `proc2` you'll get `? ? ?`. Why? In the first case, everything behaves as you'd expect, `fred` is made to hold `?`, control is passed to `proc2` where `fred` is changed to 1. Then it's back to `proc1` where `fred`'s value is printed out again, its value unchanged.

By adding the extra line we've made a subtle change to the way `fred` operates. The new line tells `proc2` to create a second variable with the same name and treat it as a separate entity. The new one is independent of the original and starts life blank.

As there are now two variables called `fred` and we've told `proc2` which

one we want to use, we can't refer to the other from within that procedure.

If a procedure has a local variable, every time you enter that procedure the variable is created afresh, and any value you left in there last time will have disappeared.

Declaring a variable this way isn't the only method of making it local. Here's another look at this:

```
to proc1
  ask ' ? ( ? )
  or else
  end
```

```
ask ' ?
  proc1
  ?
```

As you can see, it works in much the same way as before. By putting `?` in the `to proc` line of the definition it becomes local to `proc1` and the original `?` - the one containing 8 - remains intact when `proc1` executes.

The next example passes a parameter to itself and you will be able to spot that name is local.

```
to keepgoing num
  ask 'num num + 1
  if (num = 10)
  [stop]
  or else
  keepgoing num
  or else
  end
```

```
keepgoing 8
```

Every time `keepgoing` calls itself, a copy of the current version of `num` is made leaving the original intact. As the procedure keeps calling itself, more copies of `num` are created and

4 From Page 41

stored when the recursion goes to a deeper level. If this is allowed to continue indefinitely the space Logo utilizes for storing these copies will be exhausted and the program will grind to a halt with an error message. Here, though, we've arranged for it to come to an end - when move builds 18.

When it gets to this point the last procedure returns to the previous level and picks up at the second `gens` with the old value of `num` restored. This then terminates at the end and returns to the procedure before that. This cycle continues picking up and printing the stored value till it gets back to the top level.

Thinking ahead

There are various reasons why you might want to use local variables. If a variable is only needed for temporary storage, the space it takes up can be reclaimed when Logo exits from the procedure. This would be useful if you were short of space.

There is a school of thought among professional programmers which says that a program is less prone to bugs if

a procedure which doesn't need to know the value of a variable used in another procedure is unable to alter it by accident. You could do this by inadvertently using the same name twice, which could be disastrous if the same belonged to a global variable, but is no problem if it is local.

Another use for local variables is if you have a program which needs to consider several possible courses of action by thinking ahead.

A draughts program would be a good example of this. Say the computer looks two moves ahead and is in a situation where it has two likely choices of moves.

For each choice the human opponent may have several possible replies and each reply will present numerous further potential moves to the computer. The possibilities fan out like the tree shown in Figure 1. We restricted it to two possible replies to each of the computer's moves.

The program would want to use the same set of procedures to work out the board position after each move. If the computer has worked out what the board looks like after move 1 and now wants to look at the position after replies 1a and 1b, it doesn't want to lose the record of the position at move 1 while it's looking at 1a, because that

record will be needed to generate 1b.

This is an ideal situation for local variables, because when the program has returned from the procedures showing the position at 1a, the position at move 1 will be intact ready to generate 1b.

Short and sweet

Without local variables there is a lot of merely copying of variable contents in order to save them before the variable is used again in the next depth of search. With local variables there's none of that, and the program is shorter and easier to write.

Although it's not strictly relevant to the subject in hand, you're probably wondering how the draughts program would evaluate which of the possible moves was the best result.

A simple way is to give each result a score and choose the move with the highest value. The score would be calculated by taking into account a number of factors such as number of pieces on the board - say 1000 each for all the computer's colour and -1000 for each of the opponent's pieces.

If the move had led to the computer's piece being about to be taken, points would be deducted. From a strategic point of view some squares on the board are more important than others, so bonus points would be awarded if the computer occupied these points, or deducted if the opponent did. You can carry on with all sorts of other factors which contribute to the strength of a given board position.

Now dig out our September 1987 issue. In it is a recursive program to draw a tree which may have been incomprehensible at the time. Now you should be able to follow it through, particularly if you turn the picture it generates upside down where it fits in with the analogy of going down levels and coming back up again.

Well, that winds up the series. I hope this four month Logo has proved interesting and opened up an area which would otherwise have remained a mystery. It's a pity that the version of Logo supplied with the CPC isn't fast or powerful enough to make more practical applications possible.

Nevertheless, Logo is representative of the way programming languages are going and is valuable background experience to the next generation of computers as well as being an easy introduction to computing in general.

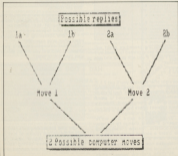


Figure 1. Potential moves in draughts program

AM tips



Zynaps

(Hewson)

Jason Brooks hasn't had much luck with his Four Smash Hit tape. Frosted Zynapsians get 255 lives and only five aliens to shoot per level. Skip past the first file called Zynaps, press Play, and run the poke.



| | |
|----------------------|-----------------------|
| 10 Zynaps 8x | 20 0000 0101011110100 |
| 11 Jason Brooks | 21 0000 000001111 |
| 12 0000 0000001 0000 | 22 0001 |
| 13 0001 00001 04000 | 23 0011 04000 |
| 14 000 100 10 10 | 24 0010 01011101111 |
| 15 0000 0100 111 | 25 0010 1101111111 |
| 16 0001 000000 0 | 26 0010 00111111 |
| 17 0000 0100 0000 | 27 0010 0101110111 |
| 18 0000 0100 0000 | 28 0010 0111011111 |
| 19 000 100 10 10 | 29 0010 01000010000 |



Mission Genocide

(Firebird Silver)

If the cheat reader isn't enough for you (type OED in upper case and a number between 1 and 9), here's a Finder poke for infinite lives. Run the poke, reload the tape, and press Play.

| | |
|-------------------------|--------------------------|
| 10 000 Mission Genocide | 20 0000 11011001 |
| 20 000 0x 11111000 | 30 0000 111000 000001000 |
| 30 000 011 10111111 | 40 0000 000001000 |
| 40 0000 1000001 00011 | 50 000 00000 |
| 50 000 000000 10 00000 | 60 0010 0101110111111 |
| 60 0000 0101011110100 | 70 0010 01010111111 |

I've been wondering what's going to happen to the CPC games market this year. Sales of Amstrad games titles are still running a healthy third to Spectrum and Commodore, so we can look forward to plenty of new releases. The trouble is, how often do you see a game that doesn't fit into a well-established category? We seem to get the same old ideas churned out in different flavours. OK, so they're often still enjoyable, but there doesn't seem to be much innovation going on.

There are exceptions - Greenin's Defektor isn't like anything I've seen before but it is an excellent game. The software houses rely on customers coming back month after month. In the long run you'll only keep doing it if we think what we're going to buy offers something we can't get out of the games we have already.

As someone said in a letter on the mail page, the trend towards compilations and budget games could be counter-productive because although people are spending roughly the same amount on software as before, they're getting more games for their money so the software houses make less on each one.

That being the case, they'll spend less time and money on developing an individual game. If that's true, whatever you think the level of statistics is now, it's going to get worse because compilations and budgets are highly successful and the software houses go where the money is.

I've also noticed a trend towards fancy graphics without the gameplay to back them up. First impressions count, and people will often buy a game on the strength of brilliant visuals, which is fine if so much effort has gone into the program. In the early days superb graphics were a good indication of the game's overall quality, but this isn't always true any more. I hope 1989 isn't going to be dominated by graphics - but otherwise mediocre - masterpieces.

Next month I'll print a top 10 based on your nominations for your favourite games.

Tiffany



Uridium+

(Hewson)

This is for the tape version on the Four Smash Hits compilation, surely some of the best value around. Skip past the first file (Uridium+) and run the poke.

| |
|--------------------------|
| 10 Uridium + |
| 11 0x Jason Brooks |
| 12 0000 1000001 0000 |
| 13 0001 00001 04000 |
| 14 000001 0100 010 |
| 15 000 1101000 1100 |
| 16 000 1100 |
| 17 0000 0100 0000 |
| 18 0000 0100 0000 |
| 19 000000 |
| 20 0000 010 |
| 21 01 0000 000 0001 0000 |
| 22 0000 0100101000 |
| 23 010101010 00 |
| 24 0010 01011101111 |
| 25 000000 0100 |
| 26 0010 01000101010 |
| 27 001000 0100 |
| 28 0010 01000101010 |
| 29 0000 00 |

Monty on the run

(Gremlin)

Get running into trouble? Rob Muhl's come up with infinite lives and stopped the crashing crushers.



Dizzy

(Code Masters)

After his Dizzy poke in the January CPC, Jason Brooks has written in with some bottom lines to give infinite lives. All you have to do is add them to the original poke listing.

- 71 8A5 11,89,89,47,7F,7F,31,2A,18
- 72 804 F15 lets you go across being drawn
- 73 1A5 1F,5C,5B,3C,31,31,31,31
- 74 80 5AF16A Lives

- 58 800 Monty on the run
- 58 801 to Bob Muhl
- 58 802 11 2AF,2C
- 58 803 5000
- 58 804 7F,8C,5A,5A,5A
- 58 805 5A,5A,5A,5A,5A
- 58 806 5A,5A,5A,5A,5A
- 58 807 5A,5A,5A,5A,5A
- 58 808 5A,5A,5A,5A,5A
- 58 809 5A,5A,5A,5A,5A
- 58 80A 5A,5A,5A,5A,5A
- 58 80B 5A,5A,5A,5A,5A
- 58 80C 5A,5A,5A,5A,5A
- 58 80D 5A,5A,5A,5A,5A
- 58 80E 5A,5A,5A,5A,5A
- 58 80F 5A,5A,5A,5A,5A
- 58 810 5A,5A,5A,5A,5A
- 58 811 5A,5A,5A,5A,5A
- 58 812 5A,5A,5A,5A,5A
- 58 813 5A,5A,5A,5A,5A
- 58 814 5A,5A,5A,5A,5A
- 58 815 5A,5A,5A,5A,5A
- 58 816 5A,5A,5A,5A,5A
- 58 817 5A,5A,5A,5A,5A
- 58 818 5A,5A,5A,5A,5A
- 58 819 5A,5A,5A,5A,5A
- 58 81A 5A,5A,5A,5A,5A
- 58 81B 5A,5A,5A,5A,5A
- 58 81C 5A,5A,5A,5A,5A
- 58 81D 5A,5A,5A,5A,5A
- 58 81E 5A,5A,5A,5A,5A
- 58 81F 5A,5A,5A,5A,5A
- 58 820 5A,5A,5A,5A,5A
- 58 821 5A,5A,5A,5A,5A
- 58 822 5A,5A,5A,5A,5A
- 58 823 5A,5A,5A,5A,5A
- 58 824 5A,5A,5A,5A,5A
- 58 825 5A,5A,5A,5A,5A
- 58 826 5A,5A,5A,5A,5A
- 58 827 5A,5A,5A,5A,5A
- 58 828 5A,5A,5A,5A,5A
- 58 829 5A,5A,5A,5A,5A
- 58 82A 5A,5A,5A,5A,5A
- 58 82B 5A,5A,5A,5A,5A
- 58 82C 5A,5A,5A,5A,5A
- 58 82D 5A,5A,5A,5A,5A
- 58 82E 5A,5A,5A,5A,5A
- 58 82F 5A,5A,5A,5A,5A
- 58 830 5A,5A,5A,5A,5A
- 58 831 5A,5A,5A,5A,5A
- 58 832 5A,5A,5A,5A,5A
- 58 833 5A,5A,5A,5A,5A
- 58 834 5A,5A,5A,5A,5A
- 58 835 5A,5A,5A,5A,5A
- 58 836 5A,5A,5A,5A,5A
- 58 837 5A,5A,5A,5A,5A
- 58 838 5A,5A,5A,5A,5A
- 58 839 5A,5A,5A,5A,5A
- 58 83A 5A,5A,5A,5A,5A
- 58 83B 5A,5A,5A,5A,5A
- 58 83C 5A,5A,5A,5A,5A
- 58 83D 5A,5A,5A,5A,5A
- 58 83E 5A,5A,5A,5A,5A
- 58 83F 5A,5A,5A,5A,5A
- 58 840 5A,5A,5A,5A,5A

Peter Shilton's Handball Maradonna

(Bugbyte)

Can't say I was too impressed with this game, but I'm getting a few letters from people who like it. So here's how to get to the higher levels except the last one. Use TC - the initials of T.P. Cheung of Ipswich - with these codes:

| Level | Skill code |
|-------|------------|
| B | 627B |
| C | 6471 |
| D | 6471 |
| E | 6476 |
| F | 6676 |
| G | 6676 |
| H | 6676 |
| I | 6772 |
| J | 6772 |
| K | 6877 |
| L | 6877 |
| M | 6973 |
| N | 6973 |
| O | 6974 |

Agent XII

(Mastertronic)

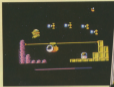
Here's a big beefy poke, some passwords and tips from Jason Brooks.

THE TIPS:
Play one: Just keep blasting away. You must destroy the brain three times.
Play two: To get the access codes for the computers move into the spiked ball that will move across the screen. To access the computers move on to one and press the speaker. It will either say off-line or ask for a code.

You must access three computers. After the third, take the fourth access code to the bottom computer.

THE PASSWORDS:
LOUGHALOR GOOSE to load level two. **PTIPFLI**
CONSTRIS to load level three. **SMALL CHANGE NOT** **BAVED OR** is the password on level three.

THE POKE:
 Just revised your Agent XII tape, press Play, and run the poke.



- 58 8A4 001
- 58 8A5 1000
- 58 8A6 By Jason Brooks
- 58 8A7 01,80,11,80,10,00
- 58 8A8 7F,8F,8F,1F,2F,8F
- 58 8A9 0A,1A,2A,3A,4A,5A
- 58 8AA 7F,8F,8F,8F,7F,8F
- 58 8AB 7F,8F,8F,8F,7F,8F
- 58 8AC 8A,1A,2A,3A,4A,5A
- 58 8AD 8A,1A,2A,3A,4A,5A
- 58 8AE 8A,1A,2A,3A,4A,5A
- 58 8AF 8A,1A,2A,3A,4A,5A
- 58 8B0 8A,1A,2A,3A,4A,5A
- 58 8B1 8A,1A,2A,3A,4A,5A
- 58 8B2 8A,1A,2A,3A,4A,5A
- 58 8B3 8A,1A,2A,3A,4A,5A
- 58 8B4 8A,1A,2A,3A,4A,5A
- 58 8B5 8A,1A,2A,3A,4A,5A
- 58 8B6 8A,1A,2A,3A,4A,5A
- 58 8B7 8A,1A,2A,3A,4A,5A
- 58 8B8 8A,1A,2A,3A,4A,5A
- 58 8B9 8A,1A,2A,3A,4A,5A
- 58 8BA 8A,1A,2A,3A,4A,5A
- 58 8BB 8A,1A,2A,3A,4A,5A
- 58 8BC 8A,1A,2A,3A,4A,5A
- 58 8BD 8A,1A,2A,3A,4A,5A
- 58 8BE 8A,1A,2A,3A,4A,5A
- 58 8BF 8A,1A,2A,3A,4A,5A
- 58 8C0 8A,1A,2A,3A,4A,5A
- 58 8C1 8A,1A,2A,3A,4A,5A
- 58 8C2 8A,1A,2A,3A,4A,5A
- 58 8C3 8A,1A,2A,3A,4A,5A
- 58 8C4 8A,1A,2A,3A,4A,5A
- 58 8C5 8A,1A,2A,3A,4A,5A
- 58 8C6 8A,1A,2A,3A,4A,5A
- 58 8C7 8A,1A,2A,3A,4A,5A
- 58 8C8 8A,1A,2A,3A,4A,5A
- 58 8C9 8A,1A,2A,3A,4A,5A
- 58 8CA 8A,1A,2A,3A,4A,5A
- 58 8CB 8A,1A,2A,3A,4A,5A
- 58 8CC 8A,1A,2A,3A,4A,5A
- 58 8CD 8A,1A,2A,3A,4A,5A
- 58 8CE 8A,1A,2A,3A,4A,5A
- 58 8CF 8A,1A,2A,3A,4A,5A
- 58 8D0 8A,1A,2A,3A,4A,5A
- 58 8D1 8A,1A,2A,3A,4A,5A
- 58 8D2 8A,1A,2A,3A,4A,5A
- 58 8D3 8A,1A,2A,3A,4A,5A
- 58 8D4 8A,1A,2A,3A,4A,5A
- 58 8D5 8A,1A,2A,3A,4A,5A
- 58 8D6 8A,1A,2A,3A,4A,5A
- 58 8D7 8A,1A,2A,3A,4A,5A
- 58 8D8 8A,1A,2A,3A,4A,5A
- 58 8D9 8A,1A,2A,3A,4A,5A
- 58 8DA 8A,1A,2A,3A,4A,5A
- 58 8DB 8A,1A,2A,3A,4A,5A
- 58 8DC 8A,1A,2A,3A,4A,5A
- 58 8DD 8A,1A,2A,3A,4A,5A
- 58 8DE 8A,1A,2A,3A,4A,5A
- 58 8DF 8A,1A,2A,3A,4A,5A
- 58 8E0 8A,1A,2A,3A,4A,5A
- 58 8E1 8A,1A,2A,3A,4A,5A
- 58 8E2 8A,1A,2A,3A,4A,5A
- 58 8E3 8A,1A,2A,3A,4A,5A
- 58 8E4 8A,1A,2A,3A,4A,5A
- 58 8E5 8A,1A,2A,3A,4A,5A
- 58 8E6 8A,1A,2A,3A,4A,5A
- 58 8E7 8A,1A,2A,3A,4A,5A
- 58 8E8 8A,1A,2A,3A,4A,5A
- 58 8E9 8A,1A,2A,3A,4A,5A
- 58 8EA 8A,1A,2A,3A,4A,5A
- 58 8EB 8A,1A,2A,3A,4A,5A
- 58 8EC 8A,1A,2A,3A,4A,5A
- 58 8ED 8A,1A,2A,3A,4A,5A
- 58 8EE 8A,1A,2A,3A,4A,5A
- 58 8EF 8A,1A,2A,3A,4A,5A
- 58 8F0 8A,1A,2A,3A,4A,5A
- 58 8F1 8A,1A,2A,3A,4A,5A
- 58 8F2 8A,1A,2A,3A,4A,5A
- 58 8F3 8A,1A,2A,3A,4A,5A
- 58 8F4 8A,1A,2A,3A,4A,5A
- 58 8F5 8A,1A,2A,3A,4A,5A
- 58 8F6 8A,1A,2A,3A,4A,5A
- 58 8F7 8A,1A,2A,3A,4A,5A
- 58 8F8 8A,1A,2A,3A,4A,5A
- 58 8F9 8A,1A,2A,3A,4A,5A
- 58 8FA 8A,1A,2A,3A,4A,5A
- 58 8FB 8A,1A,2A,3A,4A,5A
- 58 8FC 8A,1A,2A,3A,4A,5A
- 58 8FD 8A,1A,2A,3A,4A,5A
- 58 8FE 8A,1A,2A,3A,4A,5A
- 58 8FF 8A,1A,2A,3A,4A,5A

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E10 Prize letter

I READ with interest your dear story in the February issue about the boom in budget games. Over the last six months the trend towards recycling past best-sellers as budget titles or as parts of compilations has become particularly noticeable.

There was a time when the vast majority of budget titles were original, noticeable (see *Javitz*) than the full-price offerings, but often just as enjoyable.

Then everybody noticed that compilations featuring former big names almost always got into a top 10 which were becoming increasingly dominated by budget titles.

The software companies opted on to the fact that old games are not worthless, but can be given a second lease of life as an addition.

The budget companies, ever hungry for new titles, also turned to golden titles as a source of supply.

Great idea you might think, everybody benefits. His punters get full-price quality software for a fraction of the original cost, and the software houses make every last drop of profit from what would have been dead meat.

Not so. Think what the current trend ought to be. The market has woken up to the fact that cheapies and compilations sell, so everybody is jumping on the bandwagon.

This means that there is a greater demand for games to market in this way. Have you noticed how at one time you had to wait ages for a game to reappear, but now some are revived after only a couple of months?

The consequence of this is that the public now expects that if a game is any good — and often if it isn't — it will reappear in a short time.

The temptation is to wait till it comes back to Con-

sumer Hits 80 or as a Code Masterbird £7.99, and in any case they're all spending their money on compilations and budget games.

This means that the original game will sell less well than it would otherwise have done, and comes back as a cheapie even quicker. It's a process of positive feedback where the effects fuel the cause.

A compilation sells at about the same price as a full-priced game so the profit per game is less than it would have been, leaving the quality games cost money to develop but as the software houses can now count on less return for a given game they will tend to spend less on it in the first place.

The spoor of all this is that the current trend is leading to an increase in demand for the quantity of games produced, but without a proportional increase in profits. This must mean that the quality of individual games is going to get worse — substituting quantity for quality.

The obvious answer is for all to *buy cheap and compile*, and only buy full-priced software to enable the quality to stay up. Human nature being

what it is, nobody will — or included. — **Keith Seymour, Malton.**

Ancestral programs

I HAVE a problem and there is no other to turn to but you. My son and I are very interested in getting a program about genealogical tables in which we could add many progenitor and facts about him or her.

My son, poor devil, has a Commodore 128 so if you could tell us where to get a genealogical program for either the Amstrad or the Commodore we would be very grateful. — **Edwin Petersen, Copenhagen.**

■ If your Amstrad is a disc model try: David Computer Software, 38, South Parade, Bramhall, Stockport SK7 3LL. Tel: 061-439-4841 who do lots genealogical programs for the Amstrad CPC, and various other formats.

Quick on the undraw

I AM writing a Basic program which draws alive-like pictures. It can show objects from any angle and

I've been trying to produce simple animation by drawing the object, clearing the screen, showing it again from a slightly different angle, and so on.

The trouble is that it's far too slow. Some investigations revealed that clearing the screen takes quite a long time AND I wondered if there's a way of speeding up this part of the operation?

Are there any other tips for making Basic programs run faster? — **Alan Mouldie, Fleetwood.**

■ You'll find that clearing the screen more quickly is still too slow for decent realtime animation in Basic. You need machine code for that, and even then it might be better to erase individual lines rather than wipe the whole screen.

There are several ways of making Basic programs run faster. Most of them make the program more difficult to read but that can't be helped:

- Avoid REMs.
- Use integer variables where possible.
- Avoid unnecessary GOSUBs.
- Crisp as many statements on to a line as you can.
- Where the result of a

Turn to Page 68 for

Minifile explained

I BOUGHT your *Minifiles* Galore disc, strictly for *Checkmate* and *Minifile*. *Checkmate* is OK but I cannot get *Minifile* to work.

Wish to get up an address and phone book as I presume I need the *Revised* option.

On selecting this and the sub-option Add, I can get no further. How is a record

added? — **F.E.L. Parsons, Shrewsbury.**

■ The revised option simply adds blank cards to the file. When you've generated a sufficient number of cards you need to select the *Format* option.

From here you can add titles — in your case a person's name — and fields such as the address, tele-

phone number, and any other details.

For each field select the field option, type the text, and press Return. The text will now appear on the card. Use the cursor keys to move it to the desired position and press Copy.

This sets the field and you can now add more, or edit.

4 From Page 47

calculation is used more than once, put it in a variable for reuse. Calculate all star sizes, positions and targets at the start of the program and put them in arrays.

- Stick to short variable names.
- In spreadsheet sections try thinking of different methods to achieve the desired result, and then time each one to find the fastest.
- This routine clears the screen over 1000 times faster than C/S. It ignores windows, the current paper setting, doesn't home the cursor and doesn't attempt to keep the display tidy while at work. It might speed anything relying on TIME or interrupts.

```
10 SCREEN 6000:GOTO 100:PRINT 0:
20 FOR J=1 TO 64:FOR I=1 TO 64:
30 PRINT USING 1000;I+J:NEXT I:
40 IF J<=32 THEN GOTO 100:
50 PRINT USING 1000;I+J:
60 IF J<=32 THEN GOTO 100:
70 PRINT USING 1000;I+J:
80 IF J<=32 THEN GOTO 100:
90 PRINT USING 1000;I+J:
100 FOR J=1 TO 64:FOR I=1 TO 64:
110 PRINT USING 1000;I+J:
120 IF J<=32 THEN GOTO 100:
130 PRINT USING 1000;I+J:
140 IF J<=32 THEN GOTO 100:
150 PRINT USING 1000;I+J:
160 IF J<=32 THEN GOTO 100:
170 PRINT USING 1000;I+J:
180 IF J<=32 THEN GOTO 100:
190 PRINT USING 1000;I+J:
200 PRINT USING 1000;I+J:
```

For those of you into machine code, here's how it works. The stack is temporarily reloaded at the top of screen memory.

HL is loaded with 0 and three follow 99 PUSHLH instructions. This has the effect of filling the top 32 bytes of the screen memory with zeros. This is repeated 612 times, eventually filling all 194.

Finally the stack is reloaded to its former position before returning to Basic.

The routine runs with interrupts disabled. This is gently for speed but also to get round a problem: With interrupts enabled the routine gets interrupted several times by the operating system.

The interrupting routine uses the stack and it was found that allowing them to do so caused the occasional crash.

The only other point of note is that the routine is relocatable and the first time it is called it adjusts internal addresses to suit the current location in memory.

A CPC for Christmas

AFTER typing in Save Santa (which is 267 lines long!) I found that it didn't work. I was very disappointed. Every time I typed RUN, Type reloaded in 2180 came up. This is my first issue of your magazine as I got my CPC6128 for Christmas.

Could you tell me what is wrong? The line 2180 is exactly the same as in the magazine, so I have not made a mistake.

Also could you tell me how to save a program on a disc? — Sarah Thomas, Post-Talk.

Wellcome to all the new readers who have had Amstrads for Christmas, and thanks for all your letters about Save Santa. The program runs perfectly if you don't make any typing mistakes, hence!

Line 2180 may be typed in correctly but it uses the information in line 2210 to 2270. If any of these lines are mistyped, it's possible that line 2180 will not be able to understand the information, and stop with an error report.

The way to discover the problem line is to wait for the program to stop and type:

```
GOTO 1
```

If that's crucial for a typing error in one line to produce symptoms in another that looks perfectly healthy.

We don't have time to reply to individual letters like this, but there is a way to track down all those slips

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of the finger. Use the mail order form on Page 52 to get hold of a copy of our June 1987 issue.

It is a short utility program which you can use with the Get It Right numbers. It will tell you all the lines that aren't typed in exactly as shown in the magazine.

To save a program, you first need a formatted disc. A brand new disc can't be used until it's been through a formatting process which lays down tracks where the computer can store your programs.

To do this, put aside one of the discs that came with your computer into the drive and type:

```
DISK
```

What would you see:

```
1-
```

and type:

```
DISK13
```

When the menu appears select the format option. Opt for data format and put your new disc in the drive. Wait for it to format and then flip it over and do the other side. The disc is now ready for saving programs. Now,

choose a name up to eight letters long, say santa, and type:

```
SAVE SNTA
```

To load it back again, type:

```
LOAD SNTA
```

£10 Prize letter Printer pointer

When writing programs which use the printer it's handy to be able to detect if the printer is on line. The following routine does just that:

```
100 FOR I=1 TO 255:PRINT I:
110 NEXT I
120 GOTO 200:GOTO 200:
130 FOR I=1 TO 255:PRINT I:
140 NEXT I
150 GOTO 200:GOTO 200:
160 FOR I=1 TO 255:PRINT I:
170 NEXT I
180 GOTO 200:GOTO 200:
190 FOR I=1 TO 255:PRINT I:
200 NEXT I
210 GOTO 200:GOTO 200:
```

Put it at the start of your program and at the point where you want to test the state of the printer use it like this:

```
1000 GOTO 1
1010 PRINT I
1020 PRINT I
1030 PRINT I
1040 PRINT I
1050 PRINT I
1060 PRINT I
1070 PRINT I
1080 PRINT I
```

I hope this proves useful to other readers. — Michael J. Newsham, London.

Software Soft sell

Why does nobody want to ask me software? Each month computer magazines carry lavish advertisements aimed at enticing the files of me to part with cash. The promotional efforts are further aided by the appetite-whetting activities of the reviewers.

Why then was it impos-

able for me to buy a copy of Deluxe Synthesizer for the CPC464 in the six week run up to Christmas? No, it was not that stock had run out because of the Christmas rush.

None of the shops I visited in this part of the woods - including branches of large chain stores - had received a single copy of the program. Many claimed to have it on order but were awaiting delivery, while others looked vague, apologetic and passed.

I wonder how many other people found a similar problem? How many, like me, were bemused at how it could be that at the time of year when sales opportunities are at their highest, retailer manufacturers and retailers appeared particularly concerned about making out on sales?

The situation seems even more perplexing when you take into account the fact that this apparent lack of business acumen is displayed by software houses and retail outlets who invariably charge full price for the products - when they have them - and therefore enjoy the biggest margins.

It over there was a case for promoting the success of

the discount mail order advertisers, this is it. More power to your elbow lady! - **A. B. Haberfeld, Portsmouth.**

Free editor

As a disc user I frequently find myself editing discs so I have written a ZX machine code disc sector editor. It is fast, efficient, and user-friendly.

Not being selfish, I would like to offer all readers of Computing with a free copy of the Amstrad CPC 4 free copy of the program, plus source code for disc formatting. Just send me a disc with SAE - **Niall Brady, Holywell Rd., Sligo, Eire.**

Bugged by blomorphy

I TYPED in the blomorphy program from your January issue and tried to save it to disc. It would not all save. But got up to line 7040 with just more lines of gobble-degook.

I got rid of the two lines and re-ran it. When I catalogue the disc I find that the program is 84 long but

the reserved version is 264! Any ideas? - **Richard Goss, Colford.**

It's very difficult to diagnose something like this at a distance. The problem may be a faulty disc; try with another disc to see if it makes any difference.

We suspect that the problem is either the disc operating system or Basic have crashed when you attempt to save.

This would happen if the save occurred after you had run the program and you had made a typing mistake in one or more of these lines: 80,80,100,100,1380

You don't stand much chance of recovering the lost lines. Refuse the program but do not run it. Save it as an ASCII file like this:

blomorphy.txt

Catalogue the disc. If the file shows as 84 or less you can reload the program and retype the missing lines. If not, there's nothing we can do and you'll have to start from scratch. Don't run it before saving a copy!

If there are further problems, use the program routine from our June 1987 issue to rectify any typing mistakes.

Pattern designer bug

I TYPED in Ian Sharp's pattern RL program in the January issue - wonderful! I'd like to point out a problem in the pattern designer - there isn't a line 490 as there should be. The missing line, as I'm sure you've guessed is:

LD R20,0

I hope this helps other readers who may have been confused. - **Philip Jordan, Wateridge.**

You're quite right Phil. Thanks to you and many others who brought the mistake to our attention. The last line of the program was out of somewhere between

typewriting and printing - as well this reply if the editor can reach it!

Face the music

LAST year you very kindly printed a letter from me which stated that I was offering my version of J.S. Bach's Brandenburg Concerto for CPC owners who have Rainbow's Advanced Music System.

I got a very good response from that, thank you very much. Since then I have completed two further discs of music for the Advanced Music System. Again I continue music by Mozart, Mussorgsky, Handel, Bach and others.

Music is featured, among many other things, in our The Four Seasons.

Those who only have the basic version of The Music System need not feel left out. I have just completed a collection of some pieces for their wonderful Short Works which comprises 30 pieces of music. Sadly, like my other collections it is only available on disc.

If anybody is interested they are invited to send me an SAE for further details. - **Rob Baxter, 50 Milton Grove, Whalley Range, Manchester M16 9BP.**

Pen pals please

I AM a 14-year-old Norwegian girl with an Amstrad CPC464. I would like to exchange ideas and letters with other Amstrad owners so grab your pen and write a letter to: Inna Bonnes, Solsprangst 5, 1348 Amsot, Modum, Norway.

HELLO, I'm French and I'd like to exchange ideas and letters. - **Philippe Sivy, La Cloze Rais, 56630 Langonnet, France.**

Linking up a monitor

I WANT to buy an Amstrad CPC464 and I already have a Philips CT2987 colour TV monitor, which has an RGB socket. In order to use the Amstrad with this via the RGB socket would I have to buy the power supply and modulator? If not, is it possible to buy the CPC464 without the monitor? - **Alasdair Martin, Straroway.**

The official line by Amstrad is that the monitor and keyboard are not available separately. In practice you might find branches of Comet and Currys will split systems.

To use a CPC464 keyboard independently of the

Amstrad monitor you do need a power supply. This can be provided by the MP1 modulator which will also generate a signal suitable for the TV's aerial socket. If you are going to connect to the RGB input of the monitor, you still need the MP1 as a power supply unless you can provide 5v rated at 2 amps by other means.

There are two sorts of RGB - linear and TTL. The Amstrad uses linear RGB. If your monitor is TTL you will not get the full range of colours with the RGB input. If the monitor is linear, it may still need some resistors in the lead to get the voltage level right.

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A team of leading software authors were brought together to devote a total of 26 man years of programming to the development of Mini Office II. What they have produced is a package that sets new standards in home and business software.

The sample screenshots above illustrate just a few of the easy wide range of features, many of which are easily restricted to software costing hundreds of pounds. Most are accessed by using cursor keys to move up and down a list of options and pressing Enter to select.

Is it that easy to use? Several leading reviewers have

already sung its praises on this very point.

It's possibly the best advertisement for Mini Office II is that it comes from the same stable that produced the original Mini Office package back in 1984.

That was so successful it was shortlisted in two major categories of the British Microcomputing Awards – the Oscars of the industry – and sold in excess of 100,000 units!

It was up to Mini Office II to take over where the first Mini Office left off, with 32 extra features, two additional modules, a program to convert existing Mini Office files to Mini Office II format, and a 60 page, very easy to follow manual.

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"Regular Computing Weekly"

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— *Gardell, Computing with the Amstrad CPC, January 1988*

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| 4 | 12345678901234567890 | 1 |
| 5 | 12345678901234567890 | 1 |
| 6 | 12345678901234567890 | 1 |
| 7 | 12345678901234567890 | 1 |
| 8 | 12345678901234567890 | 1 |
| 9 | 12345678901234567890 | 1 |
| 10 | 12345678901234567890 | 1 |
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NEWS...NI

Service has new specialist role

One of the country's leading learned societies has joined MicroLink.

The British Psychological Society has nearly 12,000 members and is involved with government, the health and education services, academic institutions and other organisations here and abroad.

Last year its charter was changed to allow it to maintain a register of chartered psychologists which the general public will soon be able to consult.

This gives the country a new level of chartered specialists whose education and professional conduct the BPS oversees.

The society is no stranger to the benefits of electronic mail. For some time its members who work in academic institutions have been communicating via JANET, the Joint Academic Network.

By joining a more widely-used service like MicroLink, BPS members working in all areas of psychology can now communicate faster and more efficiently with the Society's offices in Leicester.

In addition the society's extensive business activities, which include publications and software, will be enhanced by MicroLink's email and file facilities.

A bulletin board for business

MICROLINK has joined forces with the University College of Swansea to provide a unique electronic bulletin board for businesses.

Subscribers can get advice free of charge from experts in various fields, and discuss business problems with others who may have experienced similar difficulties.

As well as being instant and free, this access to profes-

sional expertise comes with no strings attached, no fee to print and no commercial bias.

The wide range of business sectors covered includes legal matters, exporting, industrial relations, management, market research, personnel and training, statistical and systems analysis.

Expertise is also supplied in the areas of computing and

computer systems, electrical and electronic engineering, expert systems and artificial intelligence, and mechanical engineering.

Users of the Business Bulletin Board can browse through the messages and apply for items of interest.

All messages are read by the system operators who pass them on to the relevant expert.

Translation back the same day

LANGUAGE expert and Swansea university lecturer Dr June Selmons has started what is probably the world's fastest translation service on MicroLink.

Subscribers who send foreign language documents to her mailbox can get the translated material back the same day - a vast improvement over the post, particularly for businesses.

"Initially I can offer translation facilities in Italian, Spanish and French - but if the demand is there, other European languages can easily be added", said Dr

Selmons.

Subscribers can use either the standard service, where the translated document is returned via MicroLink the next day, or the super-fast same day service.

Dr Selmons, a lecturer in Italian, said: "Europe has always been an important area for organisations to develop into. However, barriers are often erected solely because of linguistic difficulties.

"Hopefully, a fast and efficient service like this should make it easier for more firms to enter Europe".

Big cash savings

The first commercial bulletin board on MicroLink has been launched.

Called LoadLink, it will help Britain's 2,000 seminars firms avoid expensive wasted space on their vehicles.

The service provides information about spare capacity - part-loads - available throughout Britain and abroad.

Firms using LoadLink can sell or buy space on part-loaded vehicles, enabling journeys to become more efficient and profitable.

It also enables firms to give their customers better service by accepting small loads that were previously uneconomic.

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