

# AMSTRAD ACTION

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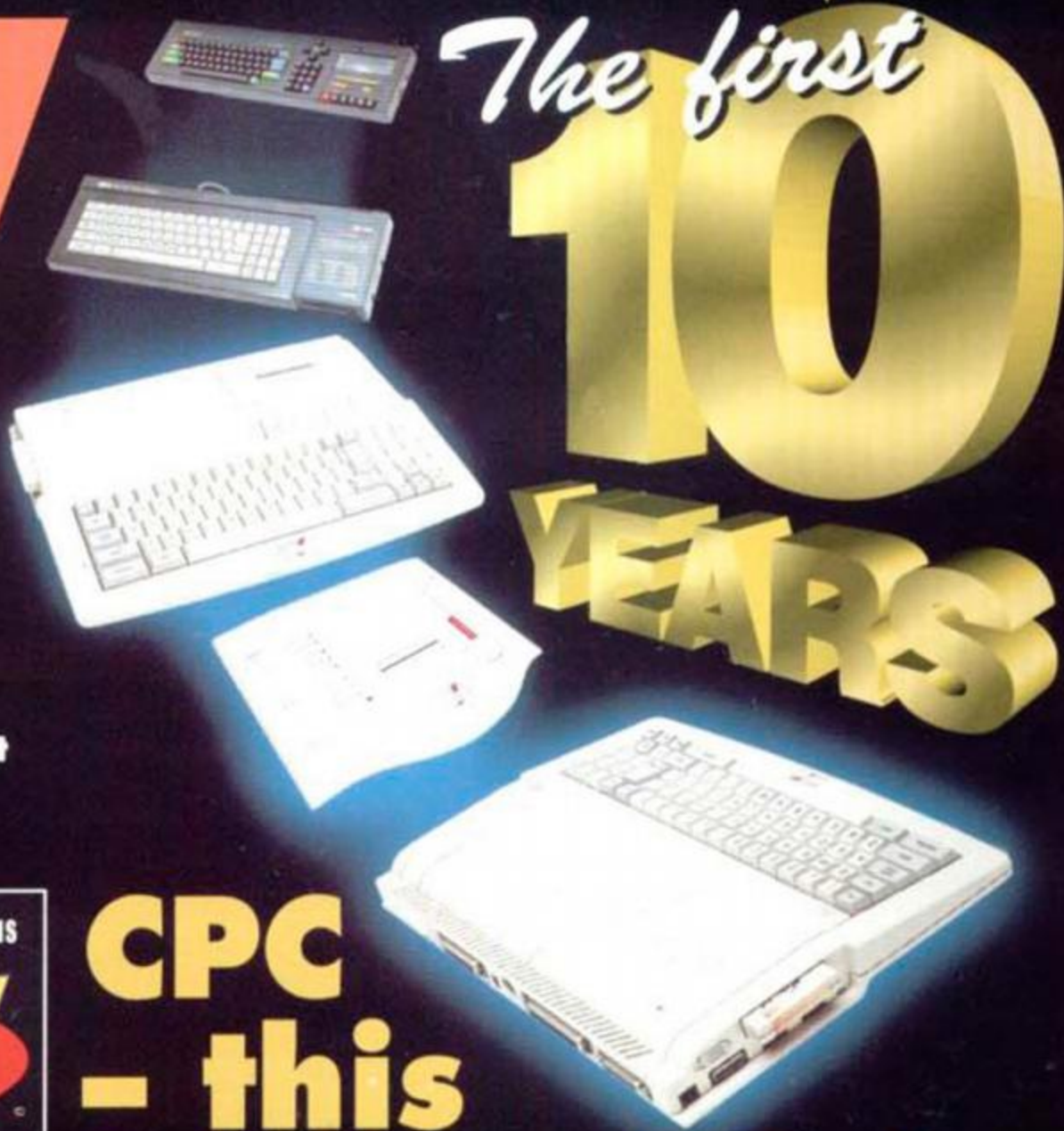
And look  
what else  
you get...

## Uridium

The most challenging  
shoot-'em-up ever

## Toolbox

A specially-compiled  
collection of the very best  
serious PD



The first

# 10 YEARS

## CPC - this is your life!

Relive the first decade of the world's  
greatest home computer... page 10.

Plus

## Public Inquiry

Is PD living up  
to its promise?

Amstrad CPC 464, CPC 6128, CPC 464 Plus  
MAY 1994

**Serious ACTION**

**URIDIUM**

**THE AA TOOLBOX**

TONS of TOP PD

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Your guarantee  
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Amstrad  
publication



# Line

## Serious stuff

### 20 AA guide to: BASIC

Things go a bit loopy in the latest installment of AA's Basic programming series, as the commands FOR and NEXT make their first appearance.

### 24 AA guide to: Machine Code

Formatting discs, verifying discs and other things to do with disc operations and machine code form the underlying thematic metaphoric content this month.

### 26 Review: Home Teacher

Home Teacher is a new homobrew educational package aimed at 4-6 year olds, but how does it match up to the classic Fun School series?

### 26 Review: Soft-Lok

"Backing up is hard to do, shooby doo, down down," as the Partridge Family

once almost said. But it can be a lot easier if you use a backing up device like Soft-lok.



### 27 Review: Basic Idea



If you reckon you've got the hang of the basics of Basic but you want to start programming something a bit more complex then Campursoft's latest release should be right up your street.

### 28 Type-Ins

This month we've got a couple of great little games for you to type in - Halloween and Meteor Storm 3 - so give those fingers some exercise.

## Main feature

# 10

## A decade of the CPC

Yep, you'd better believe it - it's been 10 years since the CPC was launched and revolutionised home computing as we know it. Rod Lawton takes a very personal (ie, extremely biased) look back over the highs and lows of the CPC's career so far...

### 34 Techy Forum

Silencing a noisy tape deck, connecting up a CPC to a Psion, recommending cheap printers, giving machine code tips, scraping sesame seeds out of Dave's keyboard - it's all in a day's work for Richard Fairhurst. Whatever the problem, this man has the answer.



## Leisure zone

### 30 Reviews: Public Image

This issue has turned into an unofficial public domain special, what with loads of the stuff on the covertape and a huge investigative feature into the scene, but you'll find Keith Woods' reviews of all the latest PD software in every issue.



### 32 Adventures: The Examiner

As well as all the usual essential stuff for all CPC text adventurers - game reviews, Lords and Ladies, Cluepot, that sort of stuff - there's a special bonus this month as we print the complete map to Bestiary.

Forcefield is one of the games reviewed in this month's Public Image.

Fluff finally gets a full review this issue - will it live up to the hype?

### 38 Review: Fluff

Hang on, I'm getting a sense of deja vu. Oh, yeah, this review was supposed to be in last month's issue. But author Rob Buckley decided that there was still room for improvement so a finished version didn't arrive in time. This month we discover if the extra work has made Fluff the greatest CPC platformer of 'em all.



# WUP

## Bits'n'pieces

### 4 Covertape

There's a lot of stuff on the covertape this month, so if you want to know how to get blasting or how to get those utilities to work, these are the pages you need to turn to.

### 8 Amscene

The latest in the continuing saga of Quantum Computing, news of a follow-up to last year's successful UAUG convention and loads more (as they say).

### 9 Amscene Directory

The most comprehensive list of CPC services anywhere. If they aren't mentioned here, they probably haven't written to us saying they'd like to be mentioned here (we're not omnipotent).

### 15 AA Special Investigation Public Inquiry

The philosophy behind public domain software sounds great - free programs that anyone can copy. But what is the reality? Can PD software fill the gap left by the major software companies pulling out of the market? Are the libraries doing all they can to support the scene? Simon Forrester investigates.

### 23 Back Issues

The more you buy the more you save - that's the special offer we've got going in our Back Issues service at the moment, so take advantage of it while stocks last.

### 46 Reader Ads

Bargains, pen friends, services, user groups, fanzines, personal messages - basically, if you can fit it on the form and it's legal we'll print it.

### 47 Letters

That mad man with the breasts is back again, and this time he's topless. But don't panic, believe it or not there are some more sensible letters as well.



### 47 Next Month

There's a new look to the Next Month page as the strangely popular Trump Cards and Separated at Birth find a new home. But we'll still be doing all that usual predicting what'll be in next month's issue lark (using a Ouija<sup>®</sup> board, a piece of seaweed and couple of used matches - no wonder it rarely works).



### 40 Round up: Sports sims

It's the Amstrad Olympics where Lee Rouane hands out the gold, silver and bronze medals (and a couple of wooden spoon) to outstanding (and outstandingly bad) sports sims.



Is RBI 2 a medal-winner?

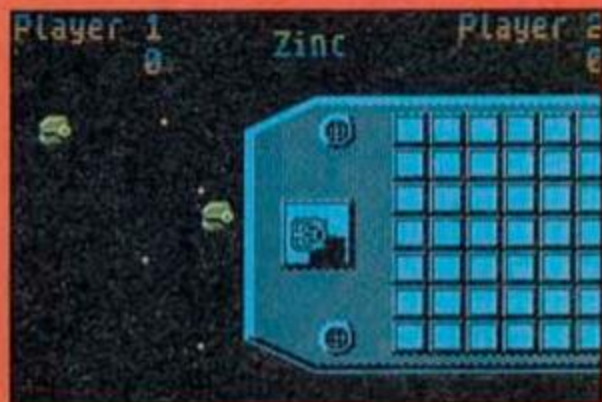


### 41 Game tips: Cheat Mode

More essential tips, cheats and pokes for the gameplayingly challenged. Chuckie Egg, Lords of Chaos and UN Squadron are among the games that get blown wide open.

## Serious ACTION

What are you waiting for? Get stuck into the covertape...



### Uridium

Get ready for classic shoot-'em-up in the depths of space. It's just you against a fleet of enemy ships that never know when to give in. Can you destroy the enemy fleet, the alien defenses and, ultimately, the entire alien fleet? Only the best (and the cheats) can survive...



### AA Toolbox

There are few machines that have a such a powerful version of BASIC built-in as the CPC. But with the amazing Amstrad Action Toolbox you can add enough extra commands to BASIC to make your own programs even more classy. Watch out, Type-Ins...

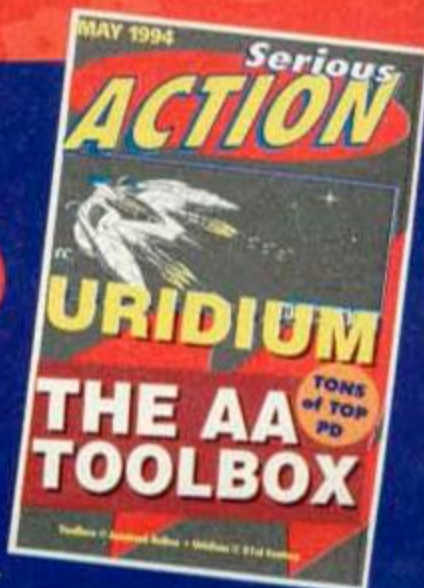
Turn the page for full details on the covertape.



# Simon

# ACTION

Simon takes you on a guided tour around this month's covertape...



## Toolkit

Welcome to AA's set of utilities for BASIC and machine code programmers. You've probably seen BASIC extensions like this a thousand times before; usually they add a few commands, most of which you can live perfectly well without, and disappear again. But we reckon you'll find the AA Toolkit genuinely useful. Most of them will work equally well no matter what CPC you have. A few are for disc owners only, and a couple are only to be used with cassettes. Similarly, a few commands are designed for systems with over 64k, and there are some commands especially suited for the 464. Something for everyone, basically.

### How does it work?

The commands that *Toolkits* adds to BASIC are called RSXs, which is techie jargon for Resident System Extensions, which is techie jargon for something that begins with a "T" (bar) symbol. For example, one of the commands is called IMEMORY. You can use it like any normal command, as in:

```
!O IMEMORY
```

Or you can use it just on its own. Some commands, like BASIC ones, take arguments — that is, you can't just put the command down and expect it to do something, but you have to supply a few numbers (or whatever) for it to work from. The thing to note here about RSXs is that they must have a comma directly after the command name (yes, it looks odd), for example:

```
!PUTKEY,65
```

### 464 owners ahoy!

As you'll know if you have a disc drive, the 464 is spectacularly inept at handling bar commands. For example, to erase a file from disc on the 464, you have to type:

```
a$=|filename|:IERA,@a$
```

instead of the simpler BASIC 1.1 equivalent:

```
IERA,"filename"
```

Remember that this applies to the AA Toolkit commands too (however, one of the commands should help to free you from all this hassle...).

### Command line interpreter

```
ICLI (all machines)
a$="command":ICLI,@a$ (BASIC 1.0)
ICLI,"command" (BASIC 1.1)
```

CLI stands for Command Line Interpreter. This, basically, means that you can type in a command and it will obey it.

"Big deal!" shout several thousand readers. "BASIC does that already!" Hang about. This has several advantages. For a start, if you just type ICLI, you'll be put in a mode where you can type RSX commands (ie, those usually prefixed with "T") to your heart's content. It's easier than from BASIC, because you can use spaces instead of commas to separate items, and you needn't bother with the speech marks (unless, of course, you have a space in the item). Let's say we want to rename the file OLDIE.BAS to NEWBIE.BAS. 464 owners would usually have to suffer this:

```
a$="OLDIE.BAS":b$="NEWBIE.BAS":IERA,
@a$,@a$
```

However, owners of other CPCs and Pluses could get away with:

```
IERA,"NEWBIE.BAS","OLDIE.BAS"
```

With ICLI, though, it's a much easier:

```
IERA NEWBIE.BAS OLDIE.BAS
```

To quit from command mode, press ESC.

ICLI has other advantages. If you supply it with an argument, it won't go into the command mode, but will instead try to execute the string you supplied as a command. So, if a\$ contained "ERA

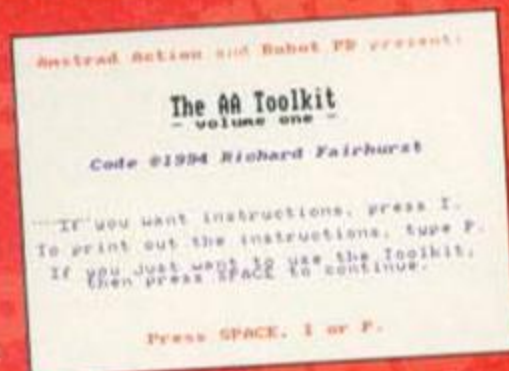
"BAK", then typing ICLI,@a\$ would

delete all the backup files on a disc.

### Batch operations

```
!EXEC (all machines)
a$="filename":!EXEC,@a$ (BASIC 1.0)
!EXEC,"filename" (BASIC 1.1)
```

ICLI acts on what you type in at the keyboard. !EXEC is similar, but takes its orders from a text file (perhaps created with a word-processor or text editor) on your tape or disc. This means that



## Uridium

The Pope liked it. Okay, I've no idea whether he's even clapped eyes on a CPC, but it's new, isn't it? When was the last time you had the Pope's seal of approval on anything? Okay, okay, so he didn't use the words, "I like *Uridium*", but I bet he would have had he played it.

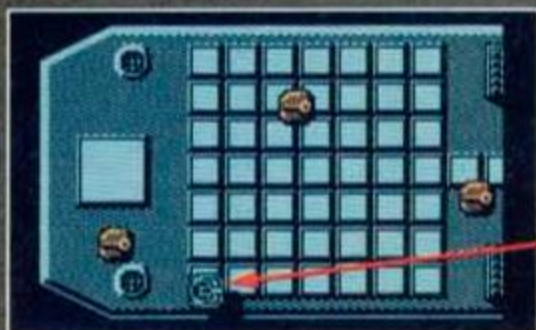
You see, *Uridium* is one of the all-time greats in 8-bit computing. *Uridium* is to the CPC

what Catholicism is to the Pope, which is why I'm sure he'd like it if he was a CPC fan. Okay, so the Pope never really likes anything when it comes down to it, but he's the Pope, and it's part of the job.

I can speak for the Pope when I say that you have to attack the alien mothership, destroying every ship on its landing strips and, in fact, everything else that can possibly be destroyed before screaming off to the next ship. There are various surprise elements in the alien defences, but if I told you, it'd ruin the fun, wouldn't it?

You can use either joystick or keys, using directional controls. To turn the ship around,

**This is you, and you're about to die.**



you can write a list of RSX commands to execute, save them (say) in the file "COMMANDS.BAT", and then execute them using:

```
IEXEC,"COMMANDS.BAT"
```

For ultimate convenience, if you just type IEXEC on its own, it will try to load and execute a file called #EXEC.BAT.

Possible uses? Well, you could set up a file to set up your favourite colours and function key definitions, for example, erase all your backup files, and then leap into Protext.

### Screen commands

```
IEDIT,character value (all machines)
```

```
a$="character":IEDIT,@a$ (BASIC 1.0)
```

```
IEDIT,"character" (BASIC 1.1)
```

Working out character designs manually for BASIC's SYMBOL command can be a chore at the best of times, downright annoying at the worst. But what is that in the distance? Could it be a heroic RSX decked in shades and riding a Harley-Davidson here to save the day? Yes, it is. But please don't laugh at the poor thing.

Select a character to edit using one of the above commands (the first takes an ASCII code - 65 for capital A or 240 for an up arrow - as an argument, whereas the others take the actual character), and the character will appear. You can move your cursor using the cursor keys, invert pixels with COPY, and finish with ENTER or RETURN. When you've finished, the appropriate numbers will be displayed on-screen (in hex), ready to be copied into a SYMBOL statement.

Remember that, to define a character, you must have set SYMBOL AFTER appropriately beforehand (ie, if you want to define character 100, you'll need to have typed SYMBOL AFTER 100 or less). An error will appear if you haven't. The standard loader for the Toolkit sets SYMBOL AFTER 32, so you should be okay.

```
a$="text":IDOUBLE,@a$ (BASIC 1.0)
```

```
IDOUBLE,"text" (BASIC 1.1)
```

These print double-height text. You must have set SYMBOL AFTER 254 or less beforehand. The

default is SYMBOL AFTER 240 when you turn on, and the AA Toolkit sets it to SYMBOL AFTER 32, so it shouldn't be a problem.

```
a$="text":IWRITE,[style],[@a$] (BASIC 1.0)
```

```
IWRITE,[style],[@a$] (BASIC 1.1)
```

Writes text to the screen in a specified style. The style is expressed by a number, which can be any of these: 1 - bold, 2 - thin, 4 - italics, 8 - underlined, 16 - floppy (upside-down). Or you can add two (or more) together for a combination of styles. You can even change style half-way through some text. Use CTRL-B to toggle bold on or off, CTRL-T for thin, CTRL-I for italics, CTRL-U for underline, and CTRL-F for floppy. If you're going to do this later on in the text, you can leave out the number in the command if you want, so the text will start out plain (like writing 0).

This command relies on at least SYMBOL AFTER 255 being set (see above).

```
INODE,mode number (all machines)
```

```
INK,ink,colour (all machines)
```

```
BORDER,colour (all machines)
```

Yes, these do work in the same way as the standard BASIC commands. We've just supplied you with them as RSXs so that you can use them from an IEXEC file.

### 464 commands

```
IFRAME
```

```
ICURSOR,[system switch],user switch
```

```
ICLEAR.INPUT
```

```
ICOPY.CHR,@variable%
```

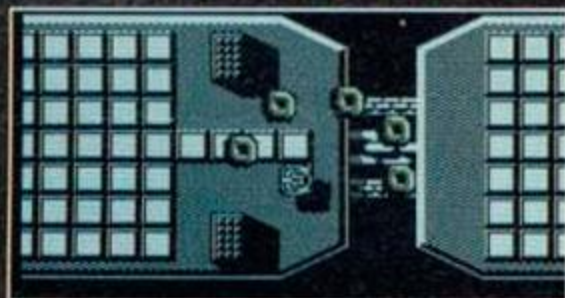
```
IGRAPHICS.PEN,ink
```

```
IGRAPHICS.PAPER,ink
```

These pretty much emulate the commands to be found in BASIC 1.1, for the benefit of those struggling over Type-Ins that don't work on the 464. Simply replace CLEAR INPUT with ICLEAR.INPUT, for example, and hey presto.

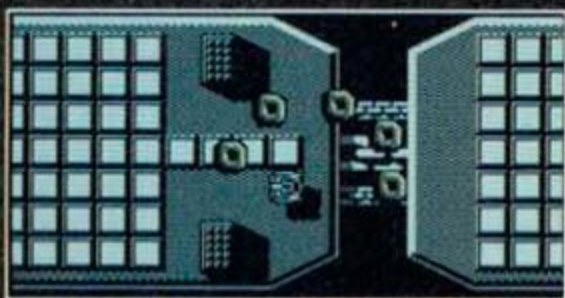
ICOPY.CHR works in a slightly different way to the 6128's COPYCHRS function. Instead of a\$=COPYCHRS(#0), you would write:

```
a%:=0:ICOPY.CHR,@a%:a$=CHR$(a%)
```



They've gone into ring doughnut formation.

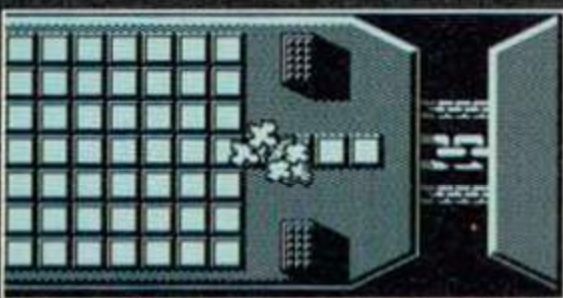
simply push your joystick in the opposite direction, and you'll turn around. As always with directions, there are four main ones, being up, down, left, and right. Would you like me to explain how to load it? Would you really like me to go that far?



Derek panicked - the doughnuts attacked...

Insert your tape on the side clearly marked *Uridium*, hold down CTRL and the small ENTER key, and follow the on-screen instructions. If you've got a disc drive attached to your machine (or even inside it), you'll need to type I (that's above the @ symbol) and TAPE, pressing RETURN afterwards, before the CTRL & Enter thing.

The joystick's that thing coming out of the side of your machine (or the back if you've got a 464), that's either tall and phallic, covered in lots of big red buttons, or a small beige rectangle with a wimpy-looking cross on it if you own a Plus. Happy now? I bet the Pope is.



Shortly afterwards the cornflakes laid siege.

# Loading instructions

## Getting started

To load up either side of the tape, simply rewind it, hold down CONTROL and press ENTER. Owners of 6128s or 664s will have to switch their machines to tape by typing I TAPE first.

## Tape to disk offer

If you've got a disk drive and you want to get a disk version of this month's tape it's easy. Whip out your scissors and cut off that token at bottom of this page, chuck it in an envelope along with your name and address and a cheque or postal order for £2 made out to Ablex Audio Video, then send off the whole kit'n'kaboodle to:

**AA104 Disk Offer,  
Ablex Audio Video,  
Harcourt, Halesfield 14,  
Telford, Shropshire TF7 4QD.**

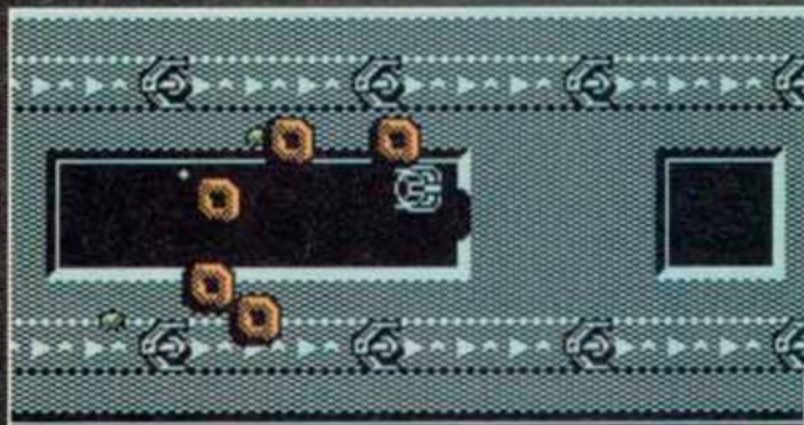
## Loading troubles?

We make the greatest efforts to ensure our cover-tapes work properly, but if you've tried all that and your tape's still not loading then pop it in the post (with a note telling us your name, address, type of CPC you use and a brief description of the problem) to:

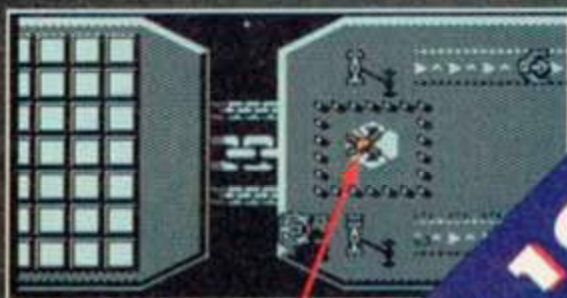
**AA104 Covertape returns,  
Ablex Audio Video,  
Harcourt, Halesfield 14,  
Telford, Shropshire TF7 4QD  
☎ 0952 680131**

**NB When returning faulty tapes could you please also include a stamped, self-addressed envelope. Thank you.**

**Please do not return faulty tapes to the AA office. There is no point. We cannot replace them here. Send them to Ablex, please.**



These are the runways that you have to trash. So get trashing, man...



The X wing. Bad man.

**Disk 104  
Token**

Note that the "a%=0" is important (although the variable can be called anything, of course).

## Memory commands

**MEMORY** (all machines)

This draws a graphical representation of memory very, very quickly. Coloured bits indicate there's something in the memory at that point, whereas blank bits suggest that it's empty.

**IDUMP, start[, finish]** (all machines)

This displays a section of memory on the screen, from the start address to the finish address. If no finish address is specified, then a short display will be produced from the start address. When displaying long sections of memory, the computer pauses every so often and waits for you to press a key.



The on-tape help file, yay nonny.

**IFIND, start, finish, byte** (all machines)

Looks through memory for the occurrence of a particular byte, and prints up all the places at which it occurs.

**IBANK, bank-switch** (128k systems)

For use with the following commands, this command selects which bank of extra RAM is to be used. The standard 6128 extra 64k can be selected with **IBANK, &C0**. If you have a 256k expansion, **IBANK, &C8**, **IBANK, &D0**, and **IBANK, &D8** may prove useful.

**IBANK.READ, from, to, length** (128k systems)

This copies a section of memory from the currently selected bank of extra memory to the specified address in the main 64k, where you can wreak your wicked ways on it.

**IBANK.WRITE, from, to, length** (128k systems)

Unsurprisingly, this is the opposite of the previous command, and copies memory from the main 64k to the extra memory.

**ICOPY, from, to, length** (all machines)

This copies the specified portion of memory (in the main 64k). For example, to copy the contents of screen memory (which starts at &C000, and is &4000 bytes long) to &2000, you could type:

```
ICOPY, &C000, &2000, &4000
```

**IFILL, address, length, byte** (all machines)

This fills a section of memory with the given byte, obliterating everything else underneath. **IFILL, &C000, &4000, 240**, for example, will fill screen memory with ink 1.

**ICALL, address** (all machines)

```
IAF, value: IBC, value: IDE, value
IHL, value: IIX, value: LIY, value
```

The firmware has a lot of good routines in it, but many are not easily accessible from BASIC. These routines will help you to use them to the full. All you have to do is set up the required registers (so, to set HL to &4350, type **IHL, &4350**), and then **CALL** the routine using **ICALL, address**.

To set the accumulator to 5, you would type **IAF, &0500**. This also sets the flags register to 0, but the flags are never significant on entering a firmware routine.

## File commands

These are the commands that, as opposed to dealing with a block of memory, do various things with either cassette or disc files.

**a#="filename": ITYPE, @a#** (BASIC 1.0)

**a#="filename": IPTYPE, @a#** (BASIC 1.0)

**ITYPE, "filename"** (BASIC 1.1)

**IPTYPE, "filename"** (BASIC 1.1)

These two commands type a file from tape or disc to the screen. **IPTYPE** prints it on your printer, too. You can pause output at any time by pressing any key, with another key to resume (ESC to quit).

One useful feature of this is that it makes a half-decent job of Protext files, meaning that you no longer need to load the word-processor itself to read the files.

**a#="filename": IINFO, @a#** (BASIC 1.0)

**IINFO, "filename"** (BASIC 1.1)

This reads header information from the specified file and displays it in hex – filetype, start address and so on.

**a#="filename": ILOAD, @a#, addr** (BASIC 1.0)

**ILOAD, "filename", addr** (BASIC 1.1)

Loads a file into anywhere in (the main 64k of) memory. Unlike BASIC's normal **LOAD** command, this doesn't worry about HIMEM or other such nonsense.

**IHL.WRITE, address, length, sync** (cassette)

**IHL.READ, address, length, sync** (cassette)

Records an area of memory to tape as a headerless file, which is impossible to read if you don't know the sync byte (which should be a number between 0 and 255). Make sure you don't forget it.

## Disc commands

**ISECTOR.WRITE, address, drive, track, sector**

**ISECTOR.READ, address, drive, track, sector**

These record an area of memory (usually &200 bytes, half a kilobyte) directly to a sector on disc. Be very careful using **ISECTOR.WRITE** – if used indiscriminately on non-write-protected discs it could mess them up for good. Try experimenting on a disc of CP/M languages or something boring like that. The drive parameter should be 0 for drive A and 1 for drive B.

**IUSER, user number**

This is just like the usual command, except that the 0-15 limit has been removed and you can now select any user area from 0 to 255. 229 is where erased files go to rest before they die forever. Stunning stuff, eh?

## Using the commands in your own programs

The file that does all the hard work is called **TOOLKIT.RSX**. To load it and set up the extra commands, you would need to use a few lines like this at the beginning of your program:

```
10 SYMBOL AFTER 32
20 MEMORY &7FFF
30 LOAD "TOOLKIT.RSX"
40 CALL &8000
```

Make sure that **TOOLKIT.RSX** is on the current disc or tape.

## Error messages

There are a number of error messages that the AA Toolkit commands might generate. Here's what they mean:

**CASSETTE OVERRUN** – The headerless file was not of the right length.

**CHARACTER NOT EDITABLE** – The current **SYMBOL AFTER** setting is inappropriate for the command you are trying to carry out.

**COULD NOT SET KEY** – You've tried to set too many function keys at once, and the computer has run out of memory for them.

**DISC ERROR** – Five hundred elephants came charging through the undergrowth (well, really).

**ESCAPE PRESSED** – A tape operation was interrupted by you pressing ESC.

**FILE ERROR** – Some sort of error occurred while trying to access a file.

**ILLEGAL PARAMETER COUNT** – You haven't supplied the right number of parameters (or arguments) for a command.

**READ ERROR B (CRC ERROR)** – Bad news. Bad, bad news. Bad, bad, bad news (get the idea?)

This means that your headerless file has probably been messed up.

**UNKNOWN COMMAND** – **ICLI** or **IEXEC** is trying to find a command you have given it and failing miserably, poor thing.

**ICAT, drive**

Catalogues the disc in the specified drive: 0 for drive A and 1 for drive B. This enables you to quickly catalogue a drive which you're not using at the moment, without having to go through the rigmarole of **IB:CAT:IA**.

## Miscellaneous commands

**a#="string": IKEY, exp.token, @a#** (BASIC 1.0)

**IKEY, expansion token, "string"** (BASIC 1.1)

This sets up a function key (usually) to generate a string of characters: **IKEY, 0, "ICLI"+CHR\$(13)**, for example, will set f0 to enter CLI mode. This is no different from the standard Amstrad **KEY** command, but, again, is provided for use in **IEXEC** files. In an **IEXEC** file, you would write the above as:

```
KEY 0 ICLI+M
```

**IPUTKEY, character value** (all machines)

**a#="character": IPUTKEY, @a#** (BASIC 1.0)

**IPUTKEY, "character"** (BASIC 1.1)

Pretends that a key has been pressed, so that next time you come to read the keyboard (using **INKEYS**, **INPUT** or similar), that key will appear. You can only "put back" one key at a time before reading a key. Useful for when certain keys (detected with **INKEYS**) trigger off a line of **INPUT** beginning with that letter.

## Copyright

You are welcome to use the AA Toolkit (**TOOLKIT.RSX**) in your own programs – after all, that's what it's here for. An acknowledgement along the lines of, "Uses AA Toolkit from Amstrad Action and Robot PD" would be appreciated. The Toolkit may not be copied as a toolkit, rather than as part of a program, without the permission of the author.

## WAREHOUSE CLEARANCE!

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**Siren Software, Wilton House, Bury Road,  
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# Amscene

What's hot and not what's not on the CPC news front.

## Strange domain



Dave Golder, editor (though he's known by neither of these term the office)

Public domain software has always been the cause of much confusion. In theory it's free because you can copy it legally; but the way most people buy it, through the post, usually entails some exchange of money. This is normally explained as costs top cover postage, packaging and copying expenses. But sometimes you do wonder whether someone is on the make and there is a lot of distrust about the PD scene.

Which is a shame because there is an awful lot of potential in the concept of public domain. Now that the major software companies have pulled out of the market, most of the new software being written for the CPC ends up in the public domain, which means that now, more than ever, there is some really good stuff to be found. The public domain also serves as a good training ground for new software writers who, might, if they get enough feedback, move onto producing homebrew software. This would be good for them – they'd be earning money – and good for the CPC scene in general, because we'd be getting good quality software. So the Public Domain could be seen as the one area of the CPC scene that could grow and prosper.

So, what should be done about PD? That's what we asked leading figures on the CPC scene in our feature (page 16), but let us know what you think. **Dave**

## PC CPC, see?

We reviewed a speccy emulator for the CPC a while back, but now there's a CPC emulator for the PC. Does this ever stop? If you loaded your CPC emulator into your PC, and loaded your Speccy emulator into that, you could have all sorts of problems. Go out and buy a Speccy instead.

Seriously, though, this is rather wonderful. CPC EMM, the CPC emulator for the PC, has the facilities for ROMs, some CRTC registers, as well as some extra features to make CPCing a bit easier. We'll be reviewing it next issue, but if you're that impatient you can contact Marco Vieth, Auf dem Uekern 4, 33165 Lichtenau, Germany.



Will you be able to play our covertapes on a PC?

Thanks to Gavin Pugh for the information.

## Another show...

Hot damn, etc, it's the Future Computing '94 show. If you enjoyed the FES2 last year, this new improved Future Show, with more workshops, more stuff to take part in and less of an emphasis on console games, should be even more up your street.

If you manage to come along to Earl's Court 2 on the 26th to the 30th of October you'll get a chance to see some of the very latest technological developments, experience the forefront of computing technology, attend the workshops, presentations, demonstrations, and plant your feet firmly in the next century. There'll be

more details on prices and stuff when they've been worked out.

## ...And another fanzine

That's right – we've had another one writing in, CPC Mania, produced by Derek Payne. The issues cost £1.50 each from 89 Wolverhampton Road, Codsall, Wolverhampton, WV8 1PL.

## Errata

In the back-up feature last month we printed a quotation credited to Rob Scott of Avatar. It should have read Phil Craven of Avatar. Rob has nothing to do with Avatar. Got that?

## Adventuring on...

For anyone now wanting to get their hands on software from Adventure PD, you're looking in the wrong place. The entire Adventure PD software range is now available from Adam Shade's Dartsma PD instead, in exactly the same form as they were in from Adventure PD. For anyone who doesn't have the motor neurone skills to look across the spread at the Amscene Directory, the address for Dartsma is 49 Heavitree Road, Plumstead, London, SE18 7QX.

## Quantum mechanics

Not exactly a news story, more of an announcement, really. A lot of people have been having incredible hassles with Quantum, to do with deliveries, reliability and replacements.

Those who're getting annoyed with the situation are perfectly justified in their actions, but a few are taking it out on the wrong person – Rob Scott and STS would like to make it clear to everyone that they left the technical repairs and hardware side of Quantum a while back, and have nothing to do with the problems people are having with their orders. STS will continue their sales of Quantum software, but that's about as far as it goes.

## Another matter of convention

Word has reached the AA news desk (as if we have a separate desk – I ask you) of a third UAUG convention. "What happened to the second one?" That was the one I covered last year – we missed the first.

Anyway, the UAUG 3 will be held on June 19th at the 'Hamilton Room', Church Road, Betchworth, Surrey. When I get more information I'll let you know, but this looks like it could be easily as good as last year – a load of CPC

fanatics swapping hints, tips, and lots of other interesting things. It'll also be a good opportunity to join up for all of the benefits of the UAUG.

So the top people in the UAUG (right), as well as some of the really big names in CPC land will be there, so why not have a think about it...



Nip along to the third UAUG convention later this year and meet these blokes. And loads of other people.





If you want to be included in the Directory, or you know of any information that needs to be updated, write to: **Amscene Directory, Amstrad Action, Future Publishing, 30 Monmouth Street, Bath, Avon BA1 2BW.**

# Amscene Directory

## PD Libraries

**Amsof**  
 ☐ Lissanty, Cloyne, Middleton, Ireland  
 Large range of European stuff.

**Braysoft**  
 ☐ 2 St Margaret's Road, Hayling Island, Hants, PO11 9SP.  
 3-inch disks only.

**Colrob PD**  
 ☐ 9 Avlemore Road, Hemlington, Middlesbrough  
 New tape-only PD library

**Dartsma**  
 ☐ 081 855 7790  
 ☐ 49 Hoevrees Road, Plumstead, London SE18 7QX.  
 They have also taken over Debbie Howard's Adventure PD collection.

**Demon**  
 ☐ 47 Hilton Avenue, Hall Green, Birmingham B28 0PE  
 3.5-inch discs available.

**Disk PD**  
 ☐ Lower Daxbeer, Daxbeer, Helsworthy, Devon EX22 7LA.  
 ☐ 0288 82348

**GD PD**  
 ☐ 49 Woodville, Barnstaple, Devon EX31 2HL

**Image PD**  
 ☐ Darren Dodds, 15 Elmwood Drive, Postleland, Newcastle-Upon-Tyne NE20 9QQ  
 Also provides a digitising service.

**PD Fun**  
 ☐ 41 Michaelgate, Kirkby Lonsdale, Via Carnforth, Lancs LA6 2BE  
 A policy of 'no serious software'.

**Power PD**  
 ☐ 83 Longleat, Great Barr, Birmingham, West Midlands B43.

**Presto PD**  
 ☐ 33 East Lane, Sandiway, Northwich, Cheshire CW8 2QQ

**Signal Software**  
 ☐ 83 Longleat, Great Barr, Birmingham, West Midlands B43.

**Sheepsoft**  
 ☐ 0446 736529  
 Based in Wales, of course. Baaaaa

**Sleepwalker PD**  
 ☐ Disk software: Joe Moulding, 9 Meeting House Lane, Balsall Common, Nr Coventry CV7 7FX  
 Special offer to AA readers - if you send Joe a disk he'll send you a free selection of PD. Only one selection per person, please.

**The Vault**  
 ☐ 43 Windfield Gardens, Clyburn Road, Galway, Ireland.  
 ☐ 010 353 91 28204

A new but rapidly expanding library with lots of European software.

**Ultimate PD**  
 ☐ 26 Woodside Road, Irby, Wirral, Merseyside L61 4UL  
 New PD library that specialises in 3-inch disk and tapes and has a wide selection of 'mathematics' programs available (whatever that means).

## Fanzines

**Amszine**  
 ☐ Gayton, Laneside Road, New Mills, Via Stockport, SK12 4LU  
 ☐ 0663 744863

**The Eliminator**  
 ☐ 14 Station Road, Riccall, York, North Yorkshire YO4 6QJ

**CPC User**  
 ☐ 0329 234291  
 The UAUG's fanzine.

**CPC Undercover**  
 ☐ 37 Trimmingham Drive, Brandisholme, Bury, Lancashire  
 A technically-minded fanzine that's also on the look out for writers.

**Ultra Games**  
 ☐ 20 Lancaster Terrace, Chester-Le-Street, Co Durham, DH3 3HW  
 Cassette-based multi-format fanzine from the man who used to produce *Am-Com*.

## User Groups

**Amstrad Contact**  
 ☐ 0403 753348  
 Sussex-based group that also runs a technical helpline for CPC users.

**UAUG (United Amstrad User Group)**  
 ☐ 0329 234291  
 An AA-recommended user group.

**WACCI**  
 ☐ 0602 725108  
 If you're seriously into the techy side of the CPC then you really shouldn't be missing out on WACCI. They're fab.

## Independent Software Companies

**Avatar**  
 ☐ 0274 602180  
 Suppliers of Phil Craven products, and a few of the Bonzo titles.

**Campursoft**  
 ☐ 041 554 4735  
 You name it, they do it, really - take a look at the interview in ish 96.

**DMP Software**  
 ☐ 89 Wolverhampton Road, Codrill, Wolverhampton WV8 1PL  
 Over 30 home-programmed games and serious programs on both tape and disk.

**Gary & Scott Kennedy**  
 ☐ 061 736 1204  
 Authors of *Trakers*, a truly great CPC game (don't argue).

**New Age Software**  
 ☐ 01040-711-4201920  
 Responsible for *ZapTBalls*, the excellent *Soundtrucker*, and, hopefully, a few more titles pretty soon.

**Radical Software**  
 ☐ 081 856 8402  
 Still releasing top-quality, new software for the CPC. If you've written a program you think is worth releasing this lot would love to hear from you.

**SD Microsystems**  
 ☐ 0760 720381  
 Specialists in business software - take a look at the feature in AA93.

**Sentinel Software**  
 ☐ 081 876 7032  
 Suppliers of selected STS titles and a few original products. They don't arf chum 'em out.

**Siren Software**  
 ☐ 061 724 7572  
 It'd take a hell of a time to list everything they do - check out their ad (it's the yellow half-page one).

**VerySoft**  
 ☐ 450 Roughman Road, Wingfield Estate, Rotherham, South Yorkshire.  
 The people who brought you *The Gripper* and *Comparator*. They're also on the look out for new programmers.

**Big Softies**  
 So you can ring them up and hassle 'em about releasing some new stuff.

**Alternative Software**  
 ☐ 0977 797777

**CodeMasters** ☐ 0926 814132

**Gremlin/GBH** ☐ 0742 753423

**Ocean/Hit Squad**  
 ☐ 061 832 6633

**Titus/Fox Hits** ☐ 071 700 2119

**Touchdown** ☐ 0268 841126

**Virgin** ☐ 081 960 2255  
**US Gold/Kixx** ☐ 021 356 3388  
**Zeppelin Software**  
 ☐ 091 385 7755

## Hardware

**Datel** ☐ 0782 744707  
 The place to go for mice, printers, memory expansions, all that sort of stuff.

**Microform Fax** 0772 703131  
 Drives, upgrades, disks, all sorts of techy stuff like that.

**Romantic Robot**  
 ☐ 081 200 8870  
 Creators of the Multiface.

**WAVE** ☐ 0229 829109  
 Suppliers of loadsa good stuff - their ad is on the back cover.

## Software suppliers

**OJ Software** ☐ 0257 421915  
 Fast friendly service, the ad says. And it's right. They've got an impressively wide variety of software on offer as well.

**Software Cavern** ☐ 0628 891101  
 Probably the largest selection of CPC software for sale in the known universe.

**Software Express**  
 ☐ 0463 240168  
 A new company in Inverness.

**Tronics North**  
 ☐ 010 6177 253 766  
 ☐ PO Box 7419, Garbutt, Queensland Australia, 4814.  
 The largest supplier of software and CPC bits'n'pieces in the southern hemisphere.

## Mail Order

**Trading Post** ☐ 0952 462135  
 They're offering loads of cut-price cartridges at the moment.

**Trojan** ☐ 0554 777093  
 The people to speak to for cartridge and lightgun stuff.

**Wizard Games** ☐ 0723 376586  
 Games, games and yet more games, basically on every imaginable format.

## Upgrades and repairs

**Avatar**  
 ☐ 0274 602180

**WTS Electronics**  
 ☐ 0582 491949  
 Amstrad-authorized repairs specialists.

## Don't gamble with your AA105

There are some things you just do not joke about. Missing out on a copy of *Amstrad Action* is one of them. Think about it - you go down to your local newsagent and there are no copies left. No don't think about it. It's too hideous to contemplate.

So make sure this situation never occurs. It's simple. All you have to do is fill in this form over here to the right a bit and hand it to your local newsagent and then he'll order and save you a copy of *Amstrad Action* every month (there's nothing these newsagents like better than a guaranteed sale).

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# DECADE 10

**1984 – the year Frankie Goes to Hollywood spent three months at number one, George Orwell's prophecy didn't come true and Amstrad launched a very long computer. AA longest-running editor, Rod Lawton, takes a personal look back at 10 years of the CPC.**

**A**pril 11th 1984 – something happened that was to change the world forever. Allegedly, Alan Sugar launched the CPC464. It was a vision of the future. The world had never seen anything like it before (or Alan Sugar's barnet, either). It was a computer that came complete with – gasp – a proper monitor. And it had a built-in tape drive. And it was colour. And it had a huge 64K of memory. And it had holes for printers and joysticks and all sorts of other, as yet unimagined, goodies.

Okay, it was built like a plastic outhouse and had a keyboard from hell, but there was no doubting its technical ability and its wonderful all-in-oneness. It wasn't up against much, of course. The Commodore 64 looked like a keyboard pumped up to the wrong pressure, and the Spectrum had the ergonomics of a pre-war Skoda. By contrast, the 464 was a miracle of engineering, the pinnacle of technology and the one machine you could buy with a keyboard that was wider than your house.

The thing about the CPC, though, was that it was a serious tool, as well as a games machine.

Nowadays, you can pick up a PC for the price of a case of brown ale and a Chinese takeaway, but back then PCs were for corporate men in suits, whose departmental budgets were the size of the average person's mortgage. The ordinary punter couldn't afford both a house and a PC, so the arrival of the CPC was a breakthrough in home computing. It wasn't just a games machine. You could also program it using the

built-in BASIC. And publishers started producing some quite good, serious software for the machine. You really could set up and run your own business using a CPC (you'd probably go broke, of course, but you could do it).

## The next big thing

But the 464 wasn't perfect. Tape-based software might be cheap to manufacture, but it's not hugely reliable, and it's slower than a sedated stegosaurus to load. Amstrad responded in May 1985 with the CPC664 – a 464 with a disk drive and a keyboard that didn't look like it was made of Lego™. Still, only 64K of memory, though...

That memory limitation spelt the end of the 664 just six months later. In August 1985, Amstrad confirmed that it was deadlier than the dodo, and was to be replaced by a new machine – the 6128. This had – gasp – a disk drive and 128K of memory.

Autumn 1985 was an exciting time. You could buy *Protext* on tape, disk or ROM and *Technician Ted* scored 82 per cent in *Amstrad Action* (that was at a time when getting two pixels to move simultaneously in the same direction was considered an achievement).

## Showbusiness

By 1985 you actually had whole shows devoted to Amstrads! The autumn 85 event took place at London's Novotel. Sadly, though, there weren't too many games softies there. And, er, Amstrad didn't have a stand there either. Guess they were showing their level of support for the machine right from the start, then?

Never mind – the CPC was getting loads of support from the games industry. In particular, one David Braben, author of the formidable *Elite*. Yes, the blockbusting *Elite* appeared that winter – the game many reckon to be the finest ever written. A game where you can spend months and

years roaming through a universe populated by hostile wire-frame polygons and differently-coloured discs. *Elite* fans tell me it's a great game once you get into it. I tell them I'd have more luck getting into a phone box with Cyril Smith.

## Antiques Roadshow

Tell you what, though. Why don't they write games like *Spindizzy* any more? More rooms than Buckingham Palace and harder than eating fried rice with chopsticks. Most people wouldn't live long enough to finish this game. If you bought this one in the spring of 1986 you're probably still playing it now.

Tell you something else that came out at the same time – *Mini Office 2*. This formidable suite of programs cost only £20, and included a word processor, a database, a spreadsheet, graphics capabilities, comms stuff, label printing facilities... and bugs. At least, the pre-pro version reviewed by AA did. But what a classic program. Look at how many CPC owners still use it. Quite.

In fact lots of things have gone the same way as *Mini Office 2*, haven't they? How many of you remember the *Grafsales Grafpad II* graphics tablet? Or what about the *Volex JTX2000A* teletext adaptor? And how about the old *Protek 1200* 'acoustic coupler'? These were the days when home computers were 'the future', when your micro could act as the nerve centre of your entire life. When you could turn your CPC into a teetering edifice, consisting entirely of loose cables, wobbly connectors and little black boxes that creaked if you squeezed them too hard.

Talking of creaky little black boxes, it was about this time (mid-1986) that Alan Sugar bought the littlest and creakiest of them all – the Spectrum. In fact, he bought out Sinclair. What an inspired move. Invent a computer better than your competitor's, then buy your competitor's. I never



**Rod Lawton – he's seen some changes in his time. "It were all fields round 'ere..." Thank you Rod.**

men in suits, whose departmental budgets were the size of the average person's mortgage. The ordinary punter couldn't afford both a house and a PC, so the arrival of the CPC was a breakthrough in home computing. It wasn't just a games machine. You could also program it using the

quite understood that one. This prompted lots of speculation that the CPC464 was for the chop. Yes, even back then, people were wondering how long the CPC had left to go. Happily, the machine lived on, and the rest is (pre)history.

## The golden years

The mid-to-late 80s were the CPC's golden era. The software houses were falling over themselves to produce ever more innovative, challenging and daft software, while the peripherals manufacturers turned out RAM packs, speech synthesisers, graphics tablets, automatic plate-warmers and anorak interfaces by the billion. Users need never leave their bedrooms again, and many of them didn't.

Some of these plug-ins were a bit ambitious. Like the Vidi video digitiser, a device capable of taking a real-life image and turning it into 11 different-coloured pixels. Great for multimedia. Or do I mean migraine? And what about the (infamous Red Box? For the uninitiated, this was a control system that plugged into your interface and could control, via other boxes, a host of mains-operated household items. What a load of old twaddle. No, really. For heaven's sake.

There were a lot of dodgy back-up devices, too. Things that could copy software from tape to disk. Things that could produce identical copies of disks. Things that let you fiddle with disk data on a sector-by-sector level. What did people want this stuff for? To blag games, of course, and other copy-protected software.

Now there're going to be howls of protest about this. We're going to get loads of letters from people who found legitimate uses for these copiers. I don't believe a word of it. You were all a lot of scheming skinflints, out to squeeze as much of your mate's tape-based games onto one of your disks as possible. We know.

There were good games around, too. Like *Academy*, for example (a bit like a planet-bound *Elite*, but without the objects made out of coathangers), and the stupidly good *Sentinel*. And, of course, there was *Freescape*.

Now call me a stick-in-the-mud. Call me a moaning minnie. Call me a raving pilchard... (oi, steady on - Dave). But *Freescape*, to me, speaking personally, is, well, a bit dull. Well, flipping dull, actually. Duller than getting lost in a giant warehouse full of different-coloured boxes. And having to wear lead wellies at the same time. I'm sure many people got lots of pleasure from jerking slowly around a world full of polygons and dying suddenly after six hours. Not me.

## The next big thing

Never mind, there were lots of other exciting things happening at the time. Rumours

abounded about an imminent 16-bit Amstrad. Maybe an Amiga-compatible machine, or a new format altogether? Maybe indeed. And maybe pigs might fly. It turned out, of course, to be the doomed Sinclair PC200, a games-orientated PC with no more colours than a CPC in Mode 2. Pitiful. Needless to say it went down like a lead balloon. One that hadn't been blown up properly in the first place.

Doesn't it all seem a long time ago? There's something else that seems so long ago you're not sure it ever actually happened. And that's Amstrad supporting the CPC. Good grief, back in 1988 they still ran a CPC owners' club. It had an official magazine, a free technical support service, discounted software and a 24-hour ordering service. Or so it seemed. Amstrad were, in fact, in the process of hiving off their CPC club to outsiders, and this was just the start of a slippery slope into oblivion, ending with the final demise of *Amstrad Computer User* magazine in 1991. What a blow. 11 people returned disappointed from their newsagents that month (six of those because it was shut).

Never mind. If Amstrad were keen to unload the User Club, it didn't mean they were about to pack in the CPC. Indeed, at the same time as launching the ill-fated PC200 in 1989, they unveiled new CPC bundles. As well as your basic keyboard plus monitor set-up, you also got a TV tuner, 17 games of varying quality, a joystick, a 'workstation' (desk) and - rather bizarrely - a clock radio. Maybe Amstrad had experienced some bad luck in the clock radio market..?

They must have been doing okay elsewhere, though, because the company posted profits of over £90 million. But Alan Sugar was cautious about the future, given the (then) rise in DRAM prices. He should have been more worried about the (now) decrease in punters.

That was also clearly a problem for



**CodeMaster - the people responsible for unleashing Dizzy - line up for the firing squad.**

Database's *CPC Computing*, formerly called *Computing with the Amstrad*. Database gave it up as a bad job in the winter of 88. Most of its readers had given it up as a bad job long before then.

But big news was in the pipeline. No, not the CodeMasters CD games pack that we visited them to see and wrote a long article about, and which they never blooming-well made - the gits (*some things never change - Dave*). No, it was the launch of the fabulous new GX4000 console and Plus machines.

## The 8-bit for the 90s

Amstrad were clearly very serious. They hired designers who made the new machines look as if they really did belong in the latter half of the 20th century, and they invited me and a posse of other, lesser, journalists over to a press launch in Paris.

No expense was spared. We stayed in a top-class hotel... we had dinner in the restaurant half-way up the Eiffel Tower... and two dozen brand new machines were set up and ready to run in the room next to the briefing ceremony.

It's a pity there weren't more games running on them, that's all. You could count the console releases on the fingers of one hand. If you only had one finger, that is. Amstrad's new machines would have stood a good chance if the software and marketing support had been there.

It didn't help that 1990 - the year the new machines were released - saw some fabulous CPC games released. Games which didn't need the console hardware, and cost half as much as console games. Remember these? - *Operation Thunderbolt*, *Ghostbusters 2*, *Hard Drivin'*, *The Untouchables*, *Jack Nicklaus Golf*, *Chase HQ*, *Myth*, *Rainbow Islands*, *Castle Master*, *X-Out*, *E-Motion*, *Pipe Mania*, *Turrican*, *Italia '90*, *Bloodwych*, *Klax*, *Stunt Car Racer*, *Lords of Chaos*, *Rick Dangerous 2*, *Shadow of the Beast*, *Kick Off 2*, *Sim City*. All released in a single year, and all utterly excellent.

## 10 computers the CPC is better than (in some way)

- 1 The Spectrum** Because it lasted longer.
- 2 The ST** Because it hasn't got joystick ports so hidden in its bowels you can't plug them in.
- 3 The PC** Because you don't need a degree in quantum physics just to switch it on.
- 4 The Amiga** Because it's longer.
- 5 The Apple Macintosh** Because you don't need 20 grand for the starter kit, and a qualified Apple consultant present every time you want to put a disc in the drive.
- 6 The Archimedes** Because it's had more than five games written for it in the last 20 years.
- 7 The C64** Because a disc game on a CPC loads in under 15 minutes.
- 8 The MSX** What does MSX stand for, anyhow?
- 9 The Electron** 'Cos games load occasionally.
- 10 Jupiter Ace** Because the CPC isn't a crap ZX81 clone that got legally blown out of the market for copyright reasons. What kind of nonce builds a machine that runs FORTH, anyway?

CPC owners had never had it so good. The people who played games, anyway. The serious types weren't quite so thrilled. All the wonderful black boxes and fabulous widgets of the mid-80s were disappearing, and precious few manufacturers were coming up with anything new. The era of the CPC as a technological nerve-centre was at an end.

## The beginning of the end?

The trouble was, it was beginning to look as if the CPC's era as the centre of anything was all but over. The serious wirehead techie types had pulled out of the market a while back, and now the major games publishers were doing the same. The CPC's relaunch had had almost no effect on the market whatsoever, and the GX4000 was shifting so badly there was talk of suppliers melting them down for the plastic.

What was going wrong? With the CPC, nothing really. It's just that by 1992 people had figured out that a £399 Amiga really was quite good value compared to a 6128 at £399. And the Amstrad's processing power and graphics abilities, while ahead of the field in 1985, were now starting to look a bit prehistoric.

And in May 1992, the biggest dinosaur of all, *Amstrad Computer User*, finally bit the dust. *Amstrad Action's* oldest competitor was also its last... or was it? Born out of the ashes of *ACU* was *CPC Attack!*, hosted by Tank Girl-lookalike Amy and boasting a bright, new look. Alas it was a star quickly extinguished by the bucket of water

## Rod's top 10 CPC hates

### 1 3.5 inch disk drives

If I hear one more supplier droning on about the superiority of their drive I'll scream.

### 2 AA17

For some reason, every other reader call we got here at AA was about an item in issue 17 that I knew nothing about.

### 3 The Red Box

People used to ask me where to get it and I didn't even know what it was.

### 4 Mode 0 graphics

Not so much graphics as a selection of different-coloured paving slabs.

### 5 Tape software

The sort that gets 99 per cent of the way through loading and then crashes.

### 6 ROM boxes

They either didn't work or had to be held together with Sellotape™.

### 7 Adam Peters' alarm clock

He didn't have one. Or if he did it went off at lunchtime. And then he ignored it.

### 8 Adventures

All of them. Without exception.

### 9 The 464 keyboard

Someone deliberately built it that way. I'd like to meet that man and shake him by the neck.

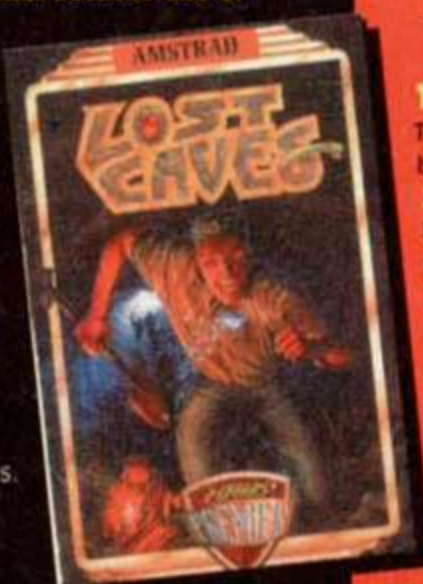
### 10 PD demos

If I listed all my mates at the end of this feature in red and yellow text on a pink background would you be impressed?

*Lost Caves* is a truly great game, and we're not just saying that because one of AA's ex-writer's was the author.

called reality. It would have helped if a few more people had bought it. A couple of hundred, and they would have been laughing.

We were now entering a completely new era of CPC ownership; and the birth of the box-shifters. All those CPC peripherals made in their millions years ago were being dredged up from dusty warehouse corners and flogged off at bargain prices. Meanwhile, in the games world, publishers were knocking out last year's full-price games as budget releases! It was the CPC's Indian summer. You know autumn and winter are on their way, but for now you're just enjoying the late summer sun.



## The middle of the end

1993 was a bad year for the CPC. The market had been tottering all through 1992 and now it collapsed around a die-hard core of CPC owners. All the game freaks who had kept the machine going into the 90s suddenly went off and bought Super Nintendos and Mega Drives, and those that were left were only left because they didn't have two edge connectors to rub together – so you can imagine they weren't terribly active games buyers.

The software industry deserted the CPC. All except US Gold, who kept promising to release *Street Fighter 2* on the CPC. We all hoped they would, because the CPC needed a big new game. But then again, maybe we all hoped they wouldn't, because if it took all of the SNES's speed and power – and a six-button joystick – to run it properly, what would the CPC make of it? It was the sort of thing you'd wake up in the middle of the night in a cold sweat about.

But apart from the games fans, there were the serious users. They had stuck around since the beginning, convinced that the CPC was the only decent home computer ever made. Well, for its time it was. When the CPC was launched, people believed the key to the future was knowing how computers worked. 10 years on, that's proved not to be true. The machines have got ever more powerful, allowing ever friendlier software – which means that you now need to know far less about computers to use them than you did in 1984.

But what the CPC did help to create was a computer-literate generation which went on to program the software of the 90s. That's a legacy of which to be proud.

## Rod's top 10 CPC games

### 1 Laser Squad

The best game that's ever been, or ever will be, written for any machine.

### 2 Sentinel

Eerie, terrifying, absorbing (bit of a gag there for *Sentinel* fans), and colossal.

### 3 Klax

Simple, yet brilliant. I still reckon I can beat anyone in the company.

### 4 Lost Caves

Ex-AA writer Adam Waring's forgotten classic. Made *Boulderdash* look pitiful.

### 5 Lotus Esprit Turbo Challenge

Great racing game. Everyone else thought it was too easy. Show-offs.

### 6 Loopz

I could have played this till the cows came home. If they could have got up the stairs to the office.

### 7 Academy

Chilling, tactical, testing and varied. Don't knock it until you've played it.

### 8 Supercars

Like *Super Sprint* with power-ups. Terrific.

### 9 Power Tetris

PD equivalent of the Game Boy two-player game. Stupidly addictive and good.

### 10 Switchblade

Why? Lots of nice detail and because I got further than anyone else.

## The end of the end

How much longer can the CPC go on? As long as people keep using it, is the simple answer to that little poser. The machine has already outlived its 8-bit competitors – the Spectrum is well and truly dead and gone and the C64 is a games-only machine which no-one is writing games for any more. The CPC still has lots of support. New serious products like the disc utility *ParaDOS* and the front-end system *DES* are among the best utilities ever produced for the CPC; and *Fluff* proves that there are still boundaries to be pushed back as far as games are concerned.

And here's one final fact to mull over. I used to write with *Protext* on the CPC. And right now I'm writing this feature with *Nisus* on the Macintosh. But it's not scrolling any faster, and the words don't read any better. The CPC may be a clonky old relic by today's standards, but it does the job.

That's the CPC all over.

The Amstrad Colour Personal Computer might be coming to the end of its life (and it's not giving up without a hell of a fight), but it's been quite a life. For 10 years it was the most powerful, versatile and genuinely useful 8-bit machine in existence. Can someone pass me the Kleenex™?

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# Public inquiry

Ask any PD librarian about why they're doing what they're doing, and they'll go off into flights of fantasy about PD keeping the CPC alive. Sceptical to the last, Simon Forrester challenges them to prove their case...

These PD people really do think they're God's gift, don't they? It's quite surprising that although they all seem to have the common goal in mind of continuing to support the CPC with cheap new games, utilities and applications, they never quite seem to manage to get along as one scene.

The philosophy behind PD is great – freely distributable software with no copyright restrictions to speak of that anyone can copy and pass on to other people without fear of a visit from the anti-piracy brigade. If the programs are good, and a lot of them are, then surely this can only be a good thing for the scene? In theory, yes.

But there is a darker, less constructive side to the CPC PD scene, and quite a lot needs to change before it can truly be of some help to a machine that desperately needs at the moment.

There's a side to the scene that maybe you aren't aware of, such as the xenophobia between libraries across Europe, the bias in many writers on the subject, the profiteering of some librarians who're determined to squeeze as much as they can out of the market instead of truly supporting it, the freeloaders who're running libraries stocked with everyone else's software whilst contributing nothing, and the perhaps double standards of the commercial crossover we see so much of these days.

## So what's wrong with the PD scene?

Let's get down to the heart of the issue here – there is a hell of a lot wrong with the PD scene at the moment. These problems haven't been caused by any one person with a particularly bad attitude, they're problems that have been slowly boiling over for quite a while now:

### ● Xenophobia

Quite a surprising little idea, isn't it? There have been several instances of certain European fanzines attempting to 'boycott' the British scene, restricting membership on the grounds of race,

*"I'd prefer to see the British scene running the same way as the European scene. Their method is much more productive."* Keith Woods

and stuffing their pages full of racist jokes, and the like (the same happens in Britain, by the

way). It was definitely a subject that most of the people we talked to had opinions on.

Firstly, Rob Buckley: "There's definitely a problem in that the continentals tend to look down on the British side, when the British side is obviously the strongest market. They also tend to get very upset if you say anything about them. As

you have probably found out,

you can't review things fairly. There is certainly a distinct difference between everybody else and this country.

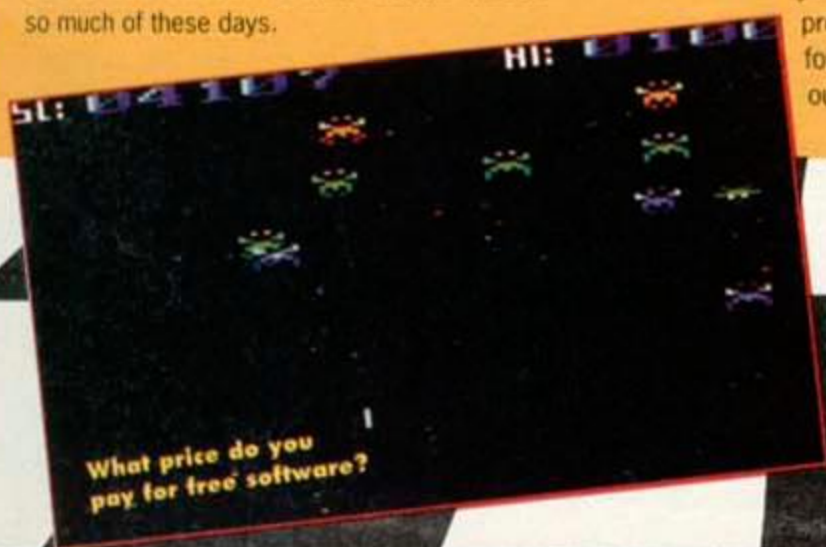
Whereas they tend to be professional hackers and writers, the British users are just normal people." So this could be a

problem of attitude, the British being too laid-back (I somehow find that a little hard to believe).

Some, like Matt Gullam, still see this scene as worthy (and why not?): "It is a bit sad. There's bound to be some sort of, 'we're British, we're best' attitude', but we try very hard on the British scene, and the rewards of our efforts are there for all to see." So maybe we're not all bad – we just do things our own way.

What inter-continental battle would be complete without Keith Woods? "I wouldn't call it racism. Racism is definitely far too strong. The British have a different way of doing things to everywhere else in Europe and, as far as I can see, that just naturally brought them into conflict with everyone else in Europe. The Europeans don't like the idea of PD libraries. Personally, I don't like libraries either, and I'd prefer to see the British scene running the same way as the European scene. Their method is much more productive, and creates more software. Everybody swaps with each other. That sort of thing never happens in Britain – there's no real contact between people."

So does this come down to a difference in the way the different scenes operate? Matt Gullam certainly thinks so, and a different distribution system



Rob Buckley has made the move from PD to commercial software with games like Fluff and Ball Bearing.

# Meet the panel of experts

It's time to introduce our panel, the people we'll be talking to throughout this feature. Though we couldn't speak to everyone involved, we feel we've got a fairly balanced representation of the various people on the scene for this one, as every side of the argument has been represented in some way:

- **ROB BUCKLEY** - Now here's a name that you'll have heard with amazing regularity of late, because of his exploits into the commercial gaming market with *Fluff*, a game originally billed as having the best CPC gameplay ever, later billed (by AA) as having the potential for some of the best gameplay ever, and receiving a full review this issue. Whatever happens to *Fluff*, though, we can rest safe in the knowledge that he's already got a couple of decent text adventure titles under his belt.
- **RICHARD FAIRHURST** - What can I say? He's been writing for AA for what seems like an eternity now, and he doesn't seem to be getting tired yet, despite running a PD library, writing both commercial and PD software (have you seen *Powerpage 128* yet?), and generally being at university in Cambridge (he does a reet dossa course, though).
- **MATT GULLAM** - Having recently closed Presto PD, his long-standing and extremely successful (though always very laid-back) PD library, he's recently teamed up with Dan Heatley (oh no) of Quantum to set up PDQ, a new library that looks set to carry on where Presto finished. This means that there'll be megabytes of amazing software that'll be almost totally unavailable because of postal delays, cashed cheques, and volcanos engulfing Wales. What a team.
- **DAVE MUGGERIDGE** - The founder member of *Amstrad Contact*, a fanzine and user group for anyone wanting to keep up with the Bonzo Scrapyrd updates (ex-Nemesis), isn't exactly an active PD person at the moment, but he did have a few things to say, and might just be making his grand entrance to the world of the CPC very shortly.
- **ADAM SHADE** - He's been a member of pretty much every British coding or commercial group over the past five years, and is now running his own PD library (as he's been doing for quite a while), Dartsma PD. As a sideline, he also runs a service for making custom leads, and claims to be able to make a piece of wire up to almost any specifications at all. On starting the interview, Adam asked, "Do you want the truth, or what the people want to hear?" Needless to say, we opted for the truth.
- **KEITH WOODS** - Having written for AA in recent months, Keith has probably burnt his name into your mind already. With a bin-bag full of PD software, a fanzine that, if nothing else, evokes reactions of all kinds, and a very strong connection with the European scene, Keith has been steadily campaigning for the European invasion of Britain for as long as the CPC can remember.



would explain why so little software makes it in a different country. Keith did suggest that maybe the lack of communication and co-operation on the British scene might be causing a problem.

Richard Fairhurst sees the problem as basically judgmental: "People tend to see what one or two people do in a given country as indicative of everyone else in that country. It isn't really fair to judge Germany on the actions of [name scrubbed for humane reasons]"

Adam Shade, put it slightly differently: "Basically I think the Germans and the French think they're better than everybody else, the English, French and Germans think they're better than the Irish, and then the Irish think they're better than everybody else. I don't think it's a problem because at the end of the day everyone will realise who can do what and no matter who thinks who can do what everyone knows who can do what and will let them get on with it." You can't write stuff like this...



## ● Cliques

But the animosity doesn't just exist on an international level. Even with Britain there are certain groups within the PD scene that just can't get along.

First up, we'd better talk to Adam Shade, since he's been a member of pretty much every single British group at some point or another: "It's a problem but it's not a problem. Because one person's not talking to the other, there's someone in the middle who's talking to both of them and stuff still gets passed around."

Rob Buckley seemed cynical (what's new?): "Some of it I can understand - there are a lot of arguments going around and a lot of it you can understand but people just tend to argue for the sake of arguing. I've talked to people who've said, 'next time I see so-and-so I'm gonna do him', and the whole scene doesn't

need this and it's driving people out, which is sad. I try to be nice to everybody, but some people really do get on my nerves." So there are definitely some people out there with a dodgy attitude to this whole co-operation thing.

Keith Woods sees cliques as ultimately self-defeating: "I don't think it's a big problem - those people have pretty much had their day at this stage. Most of them have completely lost contact with everything. The way I'm working Public Image is sending all the software to everyone so I can say in Public Image that you can get hold of the stuff from most libraries." So he's side-stepping the cliques that do manage to survive.

Our techy guru Richard had an interesting point: "It mostly comes about because there are only so many people active in programming the CPC these days. There aren't enough active members." So the problem may be down to a simple lack of numbers...

It's at this point in subjective time that Dave Muggeridge summed up the big problem with what's going on: "It's a big problem. If *Amstrad Action* ever went to the wall (*God forbid - Ed*), the big problem is that all that will be left are all these little fanzines. What needs to happen is that should all get together to form one focal point for the scene otherwise all the advertisers will go and they'll stop producing stuff for the CPC - it's that simple. If we don't do this then everyone will split up and go their own separate ways in their own little groups."

So it's pretty much agreed then - unless everyone pulls together on this, we're not going to have a computer left to write PD for.

*"There should be some sort of system where you have to be some sort of registered library and to qualify for that you've got to reach certain standards."*

Adam Shade **● Almost PD**

It's a symptom of the general lack of togetherness in the PD scene according to some, but perfectly justifiable to others. What happens is something like this: when a programmer finishes a piece of software, they'll submit it to PD, but only allow some libraries to stock it. The idea was originally bought to the CPC by Richard Fairhurst, to stop certain libraries stocking his software.

Rob Buckley: "I personally think it's a way of cutting out different people, which might not be a bad idea. I'm against kids starting things up then disappearing during the exams."

Not everybody is so happy with the idea, though. Adam Shade: "I think it's



PD allows authors to flex their coding wings in preparation for producing stuff like *Prehistorik 2*.



PD utilities are often better than commercial ones.





Who says nobody's writing games for the CPC anymore? PD programmers certainly are.

pathetic. You have to draw the line and stop there when it comes to PD."

Matt Gullam: "It's very good idea indeed because it keeps out the little guys – the squeakies, as I call them. I'm sure Richard Fairhurst would be most annoyed if squeakies were making money on his work when Richard didn't want them to, and wasn't making any himself. But in the end it's up to the programmer."

And Richard Fairhurst, unsurprisingly, fully defends the system; "It's very much standard on a lot of computers. If you look at a lot of PD software on other machines, such as the Amiga and the PC, you often need to contact the author of a program if you want to use it in a

*"If I was to say that PD does not make money, I would be lying to you."* Matt Gullam

different PD collection." (This system is known as Licenceware – Ed.)

So Almost PD might not necessarily be a bad thing? But what about those 'squeakies' that Matt mentioned?

### ● Sq... Small-timers

By small-timers, I'm referring to the uncommitted librarians that both Rob Buckley and Matt Gullam speak of, who make money from their activities, stocking their libraries from other people's collections, and giving absolutely nothing back to the scene. Are they causing real damage?

We'll start with the only positive comment on small-timers from Richard Fairhurst: "There are so many going under, you don't see many about these days. It's a shame really, because it's always nice to see new people." Aah – isn't that nice?

Matt Gullam: "They should definitely be discouraged. They're wasting their own time, and their customers' time. Customers would be far better off going to a more established library where the service is better, the range of software is better and everything's cheaper as well."

Dave Muggidge: "There are a lot of them at the moment that're jumping on the PD bandwagon by nicking everybody else's programs – they haven't got permission of the authors to send them out at all."

Adam Shade: "There should be some sort of



## But it's all such good stuff!

Okay, so the PD scene produces an awful lot of dross (now don't argue) but when it does churn out

something half decent, you can bet it'll reach a quality rarely seen in larger

commercial releases. So what are the differences between a professional programmer at US Gold and a teenager in their bedroom? These differences, after all, are what have pushed the CPC firmly into the PD scene.

● IT'S A HOBBY, NOT A JOB. There's a great deal of difference between someone finding they've got a couple of hours free in the evening and settling down to add some more to their very own game, and a fully-paid programmer knocking out a CPC version of a game because that's his job, clocking off at six and forgetting about the whole thing until the next morning. You can be pretty sure that someone who's writing a game because they really want to do it is going to come up with something a thousand times more detailed and original than their commercial counterpart (well, in theory, anyway)

● CONVERSION TIES. If a commercial programmer is doing a CPC version of, for example, *Street Fighter 2*, they're restricted to producing a clone of the original on a less powerful machine. This means that animation, sounds and speed are all compromised to get the job done. The only problem is that if you take away the sounds, animation and speed, you've pretty much destroyed most console games anyway. The real problem comes when the programmer tries to make up for this by adding extra gameplay elements to the whole thing, but is restricted by the contents of the original game that he is, after all, converting. A program originally written for the CPC, then, is obviously going to make better use of the CPC's capabilities.

● NO MACHINE LOYALTY. This may sound a bit drastic, but it's not as Victorian as all that – commercial programmers lose out because whereas they've got a working knowledge of the CPC as well as the C64, Amiga, ST, PC and probably a console or two, a dedicated CPC nut will have a complete knowledge of the CPC, outside and in. To put it another way, could ZapT'Balls have been written as well as it was if Elmar Krieger hadn't already spent several years learning every little glitch, trick, or undocumented area of the machine he was working on?

● INDUSTRIAL SCHEDULES. If you've been involved with the PD scene at any time (even as a customer), you'll definitely have noticed the release dates of games sliding back to allow the programmer to put in some extra work on their masterpiece. In a commercial software schedule, this kind of elastic timing isn't really possible, as programmers are tied to duplication dates and, most of all, release dates. With an industry that only has a few major release periods of the year (Christmas being the main one), a set-back could mean missing a sales drive altogether, and probably forfeiting most of the profits because of it.



Many user groups and fanzines have connections with Public Domain libraries.

## Chances of survival?

Somehow, the people on this scene manage to co-operate enough to produce quite a lot of different types of software. Exactly what potential does all this stuff have towards the survival of the CPC, though?

● DEMOS – I don't think it's worth keeping secret the fact that I personally think demos are a pointless waste of time, and a load of tedious, repetitive, egotistical wibble, as I'm sure you've managed to work out my views before now. Let's face it – no-one's going to keep hold of a machine because they like loading up thousands of identical programs with the same wobbly wobbly text, copied music and coloured bars running through the background, are they?

● UTILITIES AND APPLICATIONS – Now this is a bit more like it. The amount of serious software available through PD for your machine is truly staggering – if you don't like the way your file copier works, you can lay your hands on another 20 that might suit your needs a little better. The serious software available far outnumbers the games, and is probably what draws programmers to PD in the first place.

● GAMES – The quality of PD games varies dramatically, with some programmers releasing their software on PD because they know damned well that no-one would ever pay real money for it in a million years. Don't let this mislead you, though, as there are some really good titles out there (Croco Magneto, for instance, which was good enough to inspire the commercial release of *Ball Bearing*). You'll just have to look really hard, that's all (or read Public Image every month).

system where you have to be some sort of registered library and to qualify for that you've got to reach certain standards. If you get too many bad words you should be cut off until you can build your name back up again. This way, Joe Bloggs can't say, 'I'm a new library, give me your money,' and stop established libraries getting it. If someone's starting up, good luck to them, but there are too many people starting up then not being bothered, not returning discs, etc."

So they all agree that there is a problem. It's just whether anything should be done about it – Rob Buckley: "It is a bit annoying that you do produce a bit of software and other people make the money out of it, but you have to accept that."

Making money, eh?

### ● Commerciality

There are two sides to this one – first, there's the issue of PD libraries making money. There are quite a lot of libraries that are said to be overcharging, and the original idea of PD was that it was supposed to be free. The other side to this concerns PD coders who decide to sell their work commercially. Can this be justified, or is it betraying the PD scene?

Rob Buckley who, let's face it, has made just such a transition, kicks off this round: "You don't see any profit. I've done it because nobody else is. If you know of anybody who does make any money from the CPC scene, I'd like to talk to them."

Try Matt Gullam; "If I was to say that PD does not make money, I would be lying to you. PD does make money, but if you're a part-timer the amount of money that you make in relation to the amount of time you put into it if you're running it properly, collecting software, giving a good service is very, very small indeed. If you were doing it as a full-time job you'd be a very rich man. I agree that everybody should have the best of everything and it should be free but if I'd written a program and it was very good, by donating it to PD it's the librarians making the money not the programmer, so I



can see their point. Everybody's got to start somewhere, and they're starting on the PD scene."

Keith Woods: "I don't see it as a problem – I see it as a good thing.

PD is helping the CPC market by producing commercial stuff. You look to Soundtraker and that sort of thing.

They're the results of people who've started coding for PD and got good at it, doing major projects that take them a few months to do. After that length of time, it's only fair that it should go commercial. There's Megablasters from Germany – Odiesoft spent months and months on it, so it's only fair he should see some money from it."

Richard feels the same way as most about profitable libraries, and backs up commercial sales to the hilt: "If you wanted to

get into making money, you could find other ways, such as selling your stuff commercially. It's nice to do both, really. For example, Powerpage 128 couldn't go into PD totally because of all the work I've put into it recently – it wouldn't be fair on me."

Adam Shade: "No libraries should charge more than 50p per side. I don't think libraries should make much money, which is why I set up a computer supplies business to fund the library. As for people going commercial it's a shame because less good-quality PD comes along, but it's good because it's still supporting the CPC, it's opened up more software houses which means more software can be written because there's more encouragement to write it. The titles they produce aren't expensive as the companies themselves have lower costs and as long as they keep the prices down, it's not too bad."

So for the CPC, commercially releasing software is a good thing – what's it doing

to the PD scene, though? If you look around the ads for PD libraries, you'll find quite a few of them charging a hell of a lot more than 50p per side (disc not included) – is this right?

### What to do?

We can sit here and speculate about all the things that are wrong with the scene, but unless we sit down and take some decisive action on this, the PD scene is never going to be strong enough to support the CPC.

Keith Woods has started up a scheme whereby he distributes every piece of software he reviews in AA to the major libraries in Britain. As far as we know, this is the only vaguely hopeful scheme underway. In classic British style, there is someone disagreement over the scheme.

Matt Gullam: "I don't agree with Keith's idea. A lot of people have PD libraries that they like and they stick to. People can come across them by accident or recommendation or whatever, but they like what the library stands for. If Keith starts sending this stuff out, people would start writing letters saying 'can I have all the programs reviewed in the last AA,' or whatever, and they wouldn't experience the wider range of software available."

Adam Shade has a slightly different system for sending out PD: "There are too many nobodies with the same stuff, ordering from every library to stock theirs. The biggest problem is that you order one program, and everything else on the disc is rubbish. The way my system operates is with people picking and mixing their own programs."

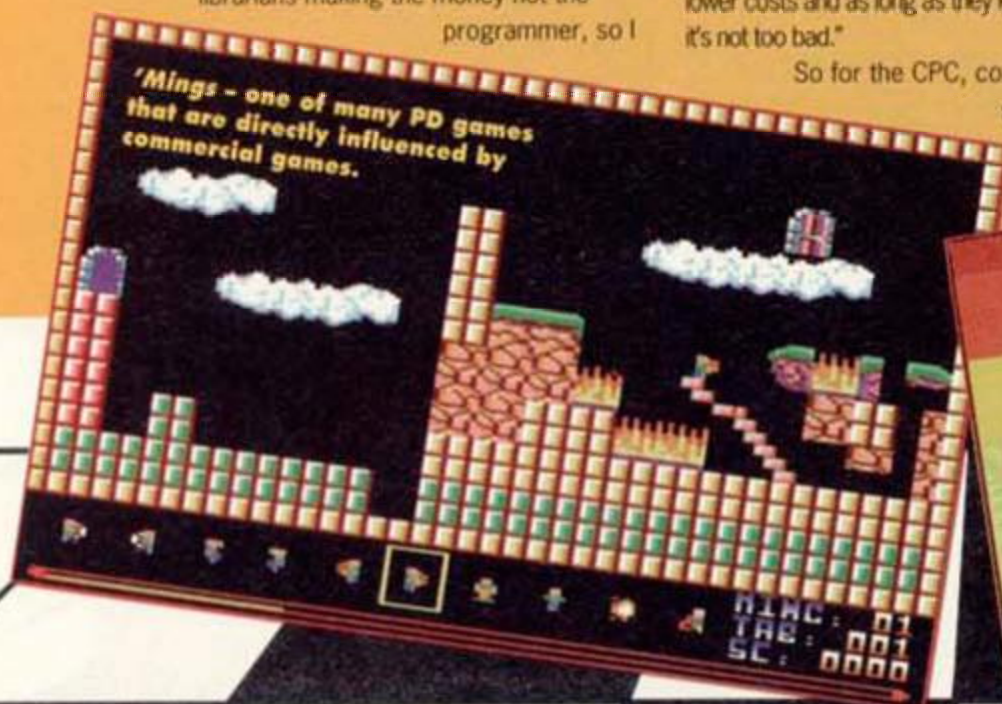
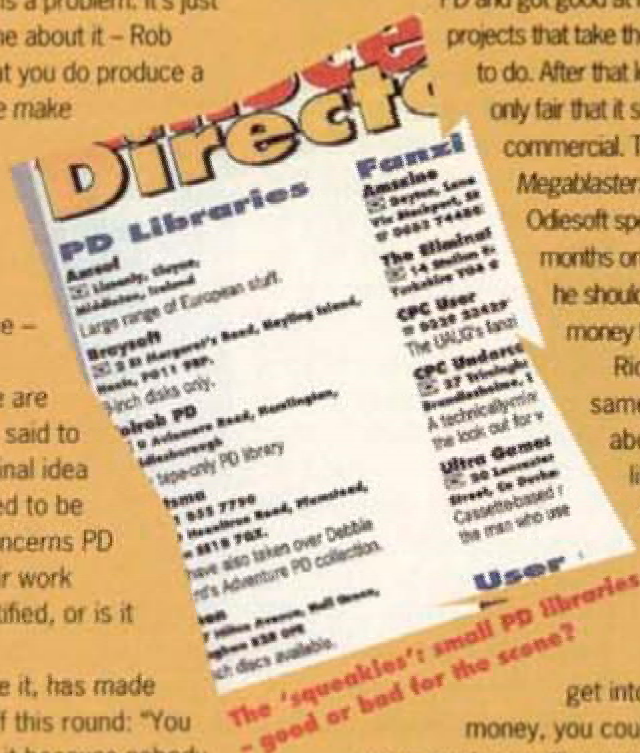
Rob Buckley: "We need to get a lot more commercial software on to the scene, such as the stuff that's on the covertapes – people need to persuade these companies to release the stuff that isn't available commercially anymore on to the PD scene. Nothing is commercially viable."

Probably the most distressing aspect of this feature is that no-one has any real idea or action plan as to how to knock the PD scene into shape. Once the right people start realising that their actions, methods and morals are damaging the scene they'll find it much easier to actively help the machine they're using. We all want to see the CPC live for a long time yet, and as things stand right now that's just not going to happen.

If anybody out there reading this has any real ideas as to what we can actually do about all of this, we'd be more than happy to hear from you, just as we'd be prepared to spend as much time on this as is possible to actually try and get something done. We're waiting.



Zap'T'Ballis used the PD scene by using a cut down PD version to advertise the full price game.



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## INFINITE LIVES

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# Basically Basic



**When we asked Simon Forrester to take over the reigns on our beginners' guide to BASIC he went a bit loopy...**

**R**ight, you've got me doing this column now, so like it or lump it. But

everyone who's quaking because they've read my Assembly Line series and made about as much sense of it as the final episode of *The Prisoner* need have no fears. I'll be gentle. Honest. And anyway, the sooner I get you conversant in this BASIC stuff, the sooner you can get reading my equally superb machine code programming series. Okay?

By the end of this spread, we're going to have written a program that displays times tables on the screen and introduces you to the concept of FOR/NEXT loops. Before we do that though, let's have a quick recap of the command we

want to use, being PRINT:

**PRINT 4**

If you've been reading the previous installments of this series, you'll already know that this command will PRINT the number 4 on the screen. You can type

it in now, pressing RETURN or ENTER to make the command work. If we wanted to display something other than a number, the command would be slightly different:

**PRINT "Wibble"**

As you'll see if you type in this command, the speech marks aren't displayed when the command is executed – they're there to tell the CPC that what has to be printed is text (words) and not maths.

## Was that maths?

Sure, you could have used PRINT "4", but let's compare the results of the

following commands:

**PRINT "4+3"**

**PRINT 4+3**

If you typed in both of these lines, you'll have realised the effect of speech marks – they tell the CPC to print everything that's between them. If we leave them out, the CPC works out the sum and prints the answer instead, which is seven.

The reason you didn't notice this earlier, if you think about it, was because the answer to the sum '4' doing nothing is '4'.

## Follow the leader

Before we write our big program, there are a few more things to learn.

First, not everything to be printed on the same line has to be in the same PRINT command. Type in and run the following program:

**10 PRINT "Amstrad"**  
**20 PRINT "Action"**

The results are the words *Amstrad Action* printed on separate

lines. Let's add one single symbol to the very end of line 10, though:

**10 PRINT "Amstrad";**

Did you notice the ';' on the end?

We don't have to type in line 20 again because you've already done it once and it's still in memory, incidentally. This time, you should see the two words printed on the same line. There isn't a space between the two words, but you can insert one of those by altering line 20:

**20 PRINT " Action"**

But what is actually happening here? Well, if you think about it, the PRINT command acts as a kind of typewriter – it displays the letters it's told to and then takes great delight in pushing that little lever and sending the carriage whanging back to the beginning of the next line. In fact, we'll call that last part a carriage return. When we put a semi colon after the quotation marks, we're telling the PRINT command not to send the carriage back. It's as simple as that.

This symbol also means we can string things together:

**PRINT "Six plus seven is";6+7**

I think you can see how easy our times tables program is going to be...

## The first program

This is it – we've got what it takes to write a seven times tables

program, as long as we

remember that the CPC's multiplication symbol is a '\*':

**10 PRINT "1 times 5 is";1\*5**  
**20 PRINT "2 times 5 is";2\*5**  
**30 PRINT "3 times 5 is";3\*5**  
**40 PRINT "4 times 5 is";4\*5**  
**50 PRINT "5 times 5 is";5\*5**  
**60 PRINT "6 times 5 is";6\*5**  
**70 PRINT "7 times 5 is";7\*5**  
**80 PRINT "8 times 5 is";8\*5**  
**90 PRINT "9 times 5 is";9\*5**  
**100 PRINT "10 times 5 is";10\*5**  
**110 PRINT "11 times 5 is";11\*5**  
**120 PRINT "12 times 5 is";12\*5**

It's a bit long winded, isn't it? For all those who blindly type everything in as you go along without reading the whole article first, you've just learnt your

## Filling you in

Oops – it appears that we made a teensy bit of an oversight a few months ago, when she drew rockets on the screen – 464 owners don't have the FILL command on their machines, which is why the programs didn't work for them. Sorry n'all.

lesson – there is a much simpler way of doing this sort of thing with loops...



## Loops

Now don't deny it – I know for a fact that Clur has introduced

you to the GOTO command before. The idea is that if, on line 20 of a program, you wanted the CPC to carry on from line 70 instead of line 30, you'd use:

```
20 GOTO 70
```

And the CPC would jump to that line.

So if we had the program:

```
10 PRINT "Wibble"
```

```
20 GOTO 10
```

It would carry on printing forever.

Bummer, eh? What if we wanted to print it, say, 12 times?

```
10 FOR a=1 TO 12
```

```
20 PRINT "Wibble"
```

```
30 NEXT a
```

Oh ick – a complex fmg. Let's take a look at line 10 a bit more closely – it's saying that FOR this loop, **a** will equal (=) all the numbers from 1 to 12. This means, as there are 12 numbers from 1 to 12 inclusively, that we want this loop to go around 12 times.

Line 30 is a bit simpler; it's telling the CPC that **a** should be increased to the NEXT number, which means going back to the FOR command on line 10.

If all of this isn't making sense in your head right now don't worry too much – it's not vitally important that you know how this works straight away. Let's try something a bit more scary (you can tell he's getting into the swing of this – Dave):

```
10 FOR a=1 TO 12
```

```
20 PRINT a
```

```
30 NEXT a
```

If you give this one a try, you'll find

that the numbers from 1 to 12 are displayed on screen, because these are the numbers that the



variable **a** contained when the loop is repeated (that's what the FOR/NEXT loops are all about as explained earlier).

## A giant leap...

From here on, we've pretty much got everything it takes to do this properly now –

all we're going to do is alter line 20 in the last program:

```
20 PRINT a;"times 7 is";a*7
```

Confused yet? Run the program, and you should be pleased.

## But I know my sevens!

It is a bit of a problem, isn't it? Well, seeing as Clur so eloquently explained

variables (letters that represent numbers), I think we can safely use another one:

```
20 PRINT a;"times";b;"is";a*b
```

It does get a little difficult to follow, what with all the speech marks and semi colons, but what we're printing is the value **a**, the word "times", the mystery value **b**, the word "is", then the result – **a\*b**. What's **b**, though?

## 2b or not 2b...

Okay, so it's a rotten gag, but it illustrates a point. Actually it doesn't, but... erm... Look – it was just a rotten gag, okay? Anyway, **b** is

going to represent the number seven in our earlier version, so that if we insert the line:

```
5 b=7
```

The program should run as it did. If we want a different table, all we have to do is

## "PRINT?"

As a handy tip to speed up your work, you don't always have to use the PRINT command in full – if you typed:

```
?5+3
```

You'd get the answer as 8 just as you would if you'd have used the PRINT command in full. If you typed in a program line as:

```
10 ?"Wibble"
```

It would get automatically padded out as:

```
10 PRINT "Wibble"
```

Just thought you might like to know.

change the figure in line five, which is a lot easier than going through the program changing the thing by hand.

There is another little method, though, which makes your program even better – you've used it already in an earlier installment, so let's give a big hand for the INPUT command...

```
5 INPUT b
```

So now when you run your program, you'll be able to type in the table you want, and the CPC will do all the working out (and why not? That's what it was designed for). There are no limits, either – if you wanted your 3.487 tables, you could get them, as you could your 138s.

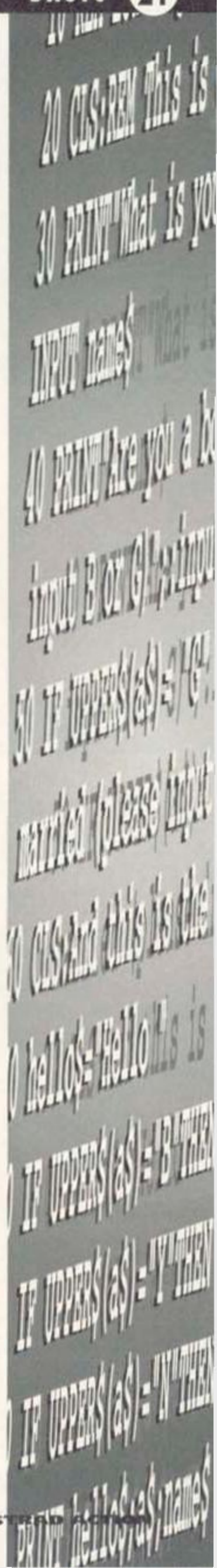
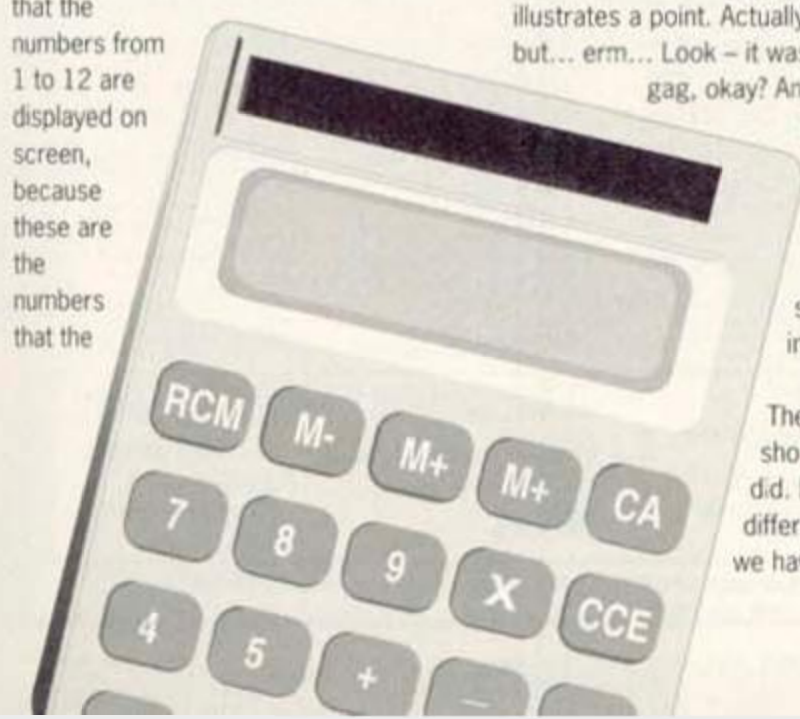
That's what makes BASIC and computers in general so powerful – they just go ahead and do exactly what you tell them, no matter how complex the numbers are, or how long it takes.

This is one of the main features of computers that makes them so useful – they know numbers because that's all they basically are, and they'll do whatever you tell them without asking any stupid questions. This may make me sound like a total sociopath, but it makes sense – computers are only any use to us because they don't think for themselves; they do exactly what we tell them to instead. Over the future episodes of Basically BASIC, we'll be finding out just how far we can push the CPC before it says, "no!"



## FOR/NEXT month

What do you want to learn? If there's an aspect of BASIC that's puzzling you, why not write in and let me know – we might be able to help you out, and teach the mass BASIC learning population something at the same time. If you do have a query, why not write on in to Basically BASIC at the usual address, and we might just be able to help you out. Failing that, next month we'll be looking at making pretty patterns on the screen (how about a colour spread for that one, Dave?).





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# Assembly Line

**All the machine code disc routine-type commands you'll ever need (apart from the ones you really need but don't exist, but don't blame that on Simon - he just writes the articles, not the programming language).**

**H**ell hath no fury like a tape-deck user scorned, but I'm going to risk their wrath by devoting the entire two pages of Assembly Line this month to disc operations, such as copying, formatting and even verifying. Before we jump straight in at the deep end, we're going to have a little re-cap on discs and the way they work with the CPC.

We'll deal with data format discs, as they're the format that most people stick with (you can fit 178k on them, as opposed to 169k with a system format disc). A data disc has 40 tracks, numbered from 0 to 39. Track 0 is the directory

## Inside a disc



This here's a sector on our incredibly simplified disc diagram...

...so simple, in fact, that it's only got two tracks. This is the other one.

track, so we can't store any data on it if we want to use the disc as a normal AMSDOS filing device. The format for a directory track is exactly the same, though, so we don't really have to make too many special arrangements when we're dealing with it.

We all have fun writing programs,

don't we? So, that may not be exactly true, but this time you've got it real easy - I'm going to do them. One thing I'll stop doing this month is simplifying my examples, so if I can take a shortcut with anything, I will (within reason).

One other point - these are not stand-alone programs, but routines. For the most part, all you'll have to do is call them and let them run their own way.

Before we go any further, there's something else you need to know - each of these routines requires a few lines of set-up code before they'll run properly. Those lines look like this:

```
.setup :ld a,&ff
        rst 3,setmsg
        ld a,0
        rst 3,setrty
        ret
```

## Errors

Though these routines are fairly self-contained, they don't compensate for any errors during operation (by displaying error messages or anything along those lines). If there is a problem, though, you'll be able to tell from within your program as the accumulator will not contain zero. Basically, when the routines return, if they contain &ff (255), then something went wrong at some point along the line. So now you know.

## Firmware

During this spread, we've been using a lot of new firmware routines in the disc ROM. In case you were wondering exactly what they all did, here they are in detail:

### BIOS: Set message - &ca72

Turns AMSDOS error messages either on or off, a state indicated by the accumulator on entry. If A contains &00 error messages are enabled, but &ff will turn them off. On exit, HL and flags will corrupt, but all other registers are preserved.

### BIOS: Select format - &c581

This routine sets up the disc parameter block for accessing a certain format of disc without reading from it. If the disc is selected by AMSDOS normally, it will detect the format itself, but here we want to format a disc instead of reading from it, so we need to use this instruction before writing any new tracks.

On entry, A contains either &c1 (data format), &41 (system format), or &01 (IBM format). On exit, AF, BC, DE and HL corrupt.

### BIOS: Read sector - &c666

Reads in a sector from a disc. On entry, HL contains the address for the data to be placed in memory, E contains the drive number (zero for A, one for B), D contains the track number and C contains the sector.

On exit, if everything went okay, the carry flag

Finally, you'll notice that these routines use calls to the disc ROM. To get any of the programs in this article to work, you'll need to insert this little jumpblock anywhere in the listing where it won't interfere with the main program:

```
.selfrm:dw &c581,7
.setrty:dw &c603,7
.securt:dw &c64e,7
.frnrk:dw &c652,7
.secred:dw &c666,7
.setmsg:dw &ca72,7
```

You'll also need to place a 512-byte buffer somewhere in memory, named BUFFER, for a few of the routines to work properly.

## Copying

It seems like a good place to start, as we'll be able to recap last month's Assembly Line which dealt with sector reading and writing. Because we don't want to have to deal with loads of messages asking for disc swapping, we'll write an A to B copier, for people with two drives. Next month, Type-Ins will feature a full assembly language copier, with a hex loader for those who don't see the need to assemble it.

This routine does sod all, really. As soon as you execute it, it goes its own sweet way and starts copying, only stopping to say it's finished or there's something wrong.

```
.copier:ld hl,buffer
        ld d,0
        ld b,40
```



is set, A contains 0 and HL is preserved. If there was a problem, carry is not set, A contains an error status byte (forget it) and HL contains the address of the error status number.

Whatever the weather, other flags corrupt, and all other registers are preserved.

### BIOS: Write sector - &c64e

This writes a sector to a disc. On entry, HL contains the address of the data to be written to the disc, E contains the drive number (zero for A, one for B), D contains the track number and C contains the sector.

On exit, if everything went okay, the carry flag is set, A contains 0 and HL is preserved. If there



## Formatting

The odd thing about using separate driver routines is that all of these routines are pretty straightforward in the end. This routine is no different, as you just call it, and it formats the disc in drive A. Be very careful, though, as when I say it formats discs I really mean it – don't call this routine with any disc in the drive other than the one you don't mind being completely wiped with no hope of retrieving any data at all. You have been warned, so don't come crying to me.

```
.format:ld a,&c1
        ld e,0
        rst 3,selfrn
        ld hl,frmdat
        ld de,0
        ld b,40

        .frmlpa:call frnset
        rst 3,frntrk
        jp nc,frnerr
        inc d
        djnz frmlpa
        ld a,0
        ret

        .frnerr:ld a,&ff
        ret

        .frnset:push bc
        ld b,9

        .frmlpb:ld (hl),d
        inc hl
        inc hl
        inc hl
        inc hl
        djnz frmlpb
        ld hl,frmdat
        pop bc
        ret

        .frmdat:db 0,0,&c1,2
        db 0,0,&c6,2
        db 0,0,&c2,2
        db 0,0,&c7,2
        db 0,0,&c3,2
        db 0,0,&c8,2
        db 0,0,&c4,2
        db 0,0,&c9,2
        db 0,0,&c5,2
```

```
.coplpa:push bc
        ld c,&c1
        ld b,9

        .coplpb:ld e,0
        rst 3,secrd
        jp nc,coperr
        ld e,1
        rst 3,securt
        jp nc,coperr
        inc c
        djnz coplpb
        inc d
        pop bc
        djnz coplpa
        ld a,0
        ret

        .coperr:ld a,&ff
        ret
```

## Verifying

This routine simply reads in every sector on every track, making sure none of them are unreadable. The 'making sure' bit is a bit of an exaggeration, as it just keeps reading sectors until there's an error. This is an easy solution to a more difficult problem.

```
.verify:ld hl,buffer
        ld de,0
        ld b,40

        .verlpa:push bc
        ld c,&c1
        ld b,9

        .verlpb:rst 3,secrd
        jp nc,vererr
        inc c
        djnz verlpb
        inc d
        pop bc
        djnz verlpa
        ld a,0
        ret

        .vererr:pop bc
        ld a,&ff
        ret
```

## Next month

That's all there's space for this month (Dave really is such a stingy with pages, you know). Next time, I'll be taking a good look at something a lot more applicable to 464 owners who'll be protesting outside the office by the time you're reading this – we're going to write a programming toolbox that'll help us with all sorts of horrible programming problems.

In the meantime, you can do one of two things. First, you can write a single-drive copier and send it in for issue 106 – the winner will receive some stunning serious software. If you don't feel like doing that, you could send in any machine code programming hints, tips, routines, or just about anything else you feel is relevant to Home Assembly at the usual address – the best one each month will receive a cash prize (probably a measly fiver, knowing Dave).

was a problem, carry is not set, A contains an error status byte (forget it) and HL contains the address of the error status number.

Whatever the weather, other flags corrupt, and all other registers are preserved.

### BIOS: Format track – &c652

Oh dear. This one's going to take quite a lot of explaining. All it does is format a track of a disc, but things could get a little difficult. We'll start with the entry conditions.

On entry, D contains the track number, E contains the drive number and HL contains the address of a header information table. This table is set out in an odd sort of fashion with each sector having four bytes:

- 1 – Track number
- 2 – Head number

- 3 – Sector number
- 4 – Log2 (sector size) - 7

The track number needs to be updated for every track, by the way. On exit, if everything went according to plan, the carry flag will be set, A will contain zero and HL will be preserved. If things went wrong, carry will be false and A and HL will contain details of what went wrong. Whatever, other flags corrupt but all other registers are preserved.

### BIOS: Retries – &c603

This sets the number of retries a user is allowed before the operation is called off and an error returned. On entry, the accumulator contains the number and on exit, A contains the old value for the retry count while HL and F (the flags) will corrupt.

# BASIC Idea

Simon fails miserably to come up with any new puns on the word BASIC in his review of a new beginners' guide to BASIC package from Campursoft. It's sad he's even trying, really.

For several months now, we've been running a BASIC tutorial series in AA. But some people just can't wait from month to month to discover how to access the power of their CPC. Campursoft might have timed their latest release perfectly, then; a BASIC tutorial book accompanied by a disc full of examples so that you can learn what you want when you want.

The book is designed for the total beginner to use – it starts with making a back-up of the BASIC Idea disc, and goes onto the very first skills you'll need to get around the keyboard, and enter the simplest of programs. From then on, it's Captain Trojan all the way – by the end of it all, you'll be producing full animations, decent tunes, and complex mathematical operations. And what's more you'll understand how you've done them.

The truth of the matter is that as a BASIC tutorial guide, this book really has to be something really special to get a glowing review – I'm a firm believer in the ability of anyone to pick up this language by simply experimenting with the odd, archaic symbols and words they find in listings with the odd reference to the CPC manual. So any tutorial will have to either be extensive in its coverage of the language, or take a hands-on learning approach, making use of the fact that the reader has the mental ability to work

some things out for themselves. BASIC Idea has got the basic idea – it'd be almost impossible to fully detail every aspect of BASIC and so what the book can't tell you can be worked out with a bit of thought, a lot of patience, your manual and skills that the book can give.

Having said all that (in an incredibly roundabout way), there is still a lot that the book covers extensively – the main emphasis seems to be on producing things to impress, which means not only will you have something pleasing at the end of your hard work, but you'll have learnt a lot of techniques and routines you can use to knock out some pretty mean Type-Ins.

## Still working...

One thing we can clear up right now is that this book is written for absolute beginners. As the

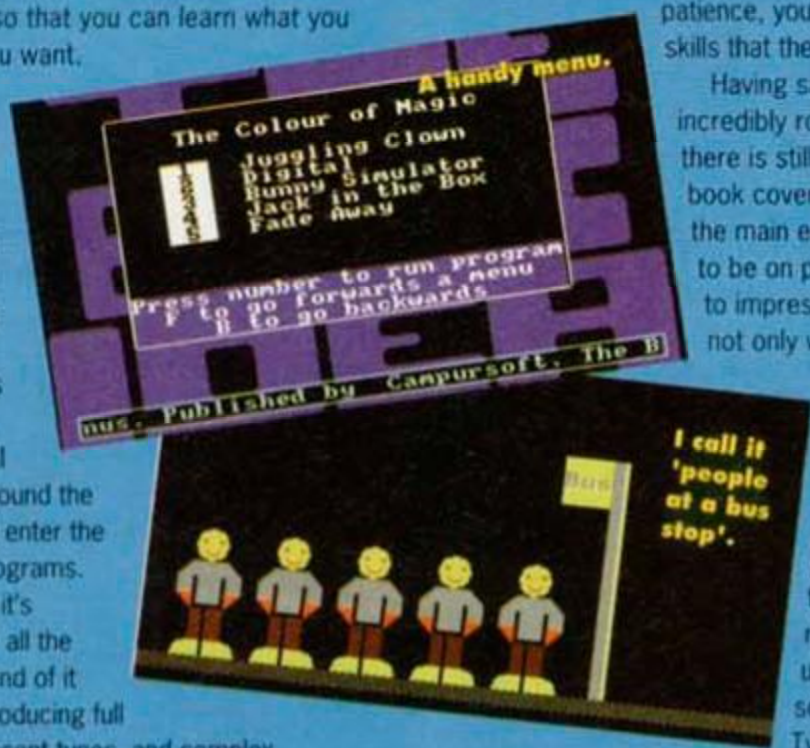


title suggests, it covers the basics of the language and builds on that. This means that although what we're dealing with is potentially quite complex to a lot of people, you won't be thrown in at the deep end without a rubber ring. In fact, the style is really quite excellent – nothing moves too fast, and plenty of explanation is given with every topic covered. Not only this, but the whole thing is structured in such a way that you're not just trying to memorise several BASIC commands and what they do – you'll be using what you've learnt throughout the rest of the book and, by the time you've finished, should know quite a few particular commands, routines, and techniques like the back of your hand.

## But that's machine code!

It threw me at first as well – we're happily trundling along learning all about palette switching, when out of the blue pops a sprite handling routine in machine code. The most obvious reaction to this would be to run away screaming, hoping that common bacteria would kill it before it had a chance to take over the planet. It's not quite as bad as it seems, though – at no point are you expected to start thinking in a second programming language, as it's all done for you, and presented in neat bundles for you to easily use. You could just think of this as a fairly successful attempt to prove that BASIC is easily powerful enough to suit anyone's needs with the subtle addition of the odd machine code routine here and there courtesy of Campursoft. The point is, you'd be absolutely right.

If you look on this month's covertape, you'll find the AA Toolbox, a set of extra commands to load into your machine and use to turbocharge your CPC. In many ways, this is what



# Home Teacher

**"This software's an education," said Dave. But was he talking Oxbridge, Playschool or Grange Hill?**

Knowledge is power, allegedly. So watch out when you give a kid an educational program – they'll be planning a household coup d'etat and demanding more pocket money before you know it.

But I don't think you'd be in much danger giving your five-year old Home Teacher. Sure they'd gain

knowledge, and, consequently, power, but, hey, a pocket torch uses power, but you're not in much danger of getting overthrown by that. Nope, Home Teacher should get them educated enough to be useful, but not so clever they become a danger.

It's a homebrew package (ie, not professionally written) designed, in conjunction



Innermost secrets of sprites revealed!

# Soft-Lok

Simon takes a look at a slightly different way of getting those awkward tape games onto disc.

**A**s you should be well aware (since last issue's back-up feature), there are copying devices available on the market that'll let you back up your software to disc in case of damage, loss and other catastrophes.

Probably the most popular is the Multiface, which can back-up pretty much any game you're likely to come across. If you don't want to go to the expense of a black box though, there are alternate solutions on the market, one of which is SoftLok.

SoftLok is a package by Rob Scott designed to transfer any games that use the Speedlock protection system to disc. As the protection system was licensed to several software companies, you'll probably have quite a few games in your collection that could be transferred.

The package itself is nothing amazingly special to look at, as it's designed to do the job with a minimum of fuss. On loading the package you'll be presented with a menu of different transfer routines for the different versions of the protection system you'll come across. Obviously, if you're a beginner in the world of protection systems, this won't be much fun, but you've been fully catered for - you'll find a little database on the disc, listing hundreds of games and which options to use for each. If the game you wish to

transfer isn't listed, fear not - there's also a header reader provided to find out which version of Speedlock you're trying to overcome, which'll happily tell you which option to use.

There's not much you can say about a transfer package, other than whether it works or not. In our office tests, we didn't find a single Speedlocked game that SoftLok couldn't tackle, and the header reader did a good job of clearing up any games that weren't listed on the database. It works, with an over 90 per cent success rate as claimed by Rob himself. By way of a validation, we didn't find a single Speedlock game it wouldn't

transfer, which pushes the success rate up to a 100 per cent, but there're bound to be exceptions.

As for the files the package saves out to disc, you shouldn't have any problems - SoftLok either writes out a single 42k runnable file or, if the game is a little bigger, a collection of files totalling no more

than about 70k, which can be run with a separate program provided on the SoftLok disc.

If you desperately want a down side to balance this review, the documentation leaves a little to be desired, but the package is so easy to use, you probably won't need it anyway.

In summary, yeah - it works.



Help.  
I think I'm having a fit.

Campursoft have done - sure, the stuff is machine code, but you don't have to step outside the cosy BASIC environment to use it.

## It's all on disc

As well as the book, when you open your jiffy bag something else should fall out - a disc, stuffed full of example listings, and bits from the book that were either too long or too boring to type in yourself. This is extremely handy because when you first receive the package, you can have a quick look through the disc and see just what you'll be getting up to in the many chapters to come. Looking through the disc personally, I'm impressed - you potentially clever lot.

## Sum it up, Simon

Tutorial books are never going to be a thrill-packed ride - you buy them because you want to know what goes on inside your machine, and you want to be able to use that to your advantage. It's not a wild and crazy time, no. Knowing this, it is difficult to see how Campursoft managed to come up with a tutorial that will not only hold your attention long enough to shove information down your throat, but will be friendly and straightforward enough that you'll want to swallow.

85%

## Details

**PRODUCT:** Basic Idea  
**PRICE:** £15  
**AVAILABLE FROM:** Campursoft, 16 Slatefield Street, Gallowgate, Glasgow, G31 1UA  
☎ 041 554 4735

with experienced teachers, to teach four- to six-year olds the basics of maths (simple adding and subtraction), shape recognition and telling the time.

The various sections are generally well designed, and progress logically, so that children can get the hang of the concepts being covered. All the sections are split into two parts, with a teaching section and a puzzle section. Everything is clearly explained with the help of simple graphics and animation, and the fact that when the child gets an answer wrong the correct answer

is clearly indicated (along with the reason why it is correct) is just what the teacher ordered.

A word of warning, though - this isn't a package you could leave a child to play on their own.

Parental guidance is necessary, and the program even prompts the parent to give help occasionally.

I am worried that perhaps the package is a little mis-aimed. It all seems far too simplistic for most four-to-six year olds. Even if they are a bit slow in the education stakes and need to be taught colours at the age of five, I'm not convinced that the extremely basic graphics (the circles only just deserve the name) are going to impress them - by six most kids have seen *Sonic*, they know what computers can do. Also, there are no scores which mean that

children can't see whether they're improving which takes away one form of motivation for continuing with the program.

There's also an oddity in the fact that the Numbers section only teaches up to six while the Time section needs knowledge of numbers up to 12. And it asks you your name at the beginning of a session and then never calls you by your name afterwards. Hmm...

And it's not a very large package, either. For £5.99 I would have expected more. That's more than you'd pay for a Fun School program, and they are undeniably larger and more attractive packages.

60%

## Details

**PRODUCT:** Home Teacher  
**PRICE:** £5.99 on tape and disc  
**AVAILABLE FROM:** Pathway Software, 9 Meeting House Lane, Balsall Common, West Midlands, Nr Coventry CV7 7FX

# Type-ins

How fast can you type in an AA listing without any msitakes? Simon reckons he could do all this month's in under 30 minutes. What to try and beat that?

This month David Hall exposes two of his programs for the nation to laugh at. Well, we would laugh at them, but they're really quite amazing good, actually. In fact, if David doesn't mind sending any more of his stuff down from Manchester, he can do a comeback tour in a few months' time.



## Halloween

Has anyone ever played the PD classic *Croco Magneto*? How about Radical's *Ball Bearing*? If you have, you'll get the

general idea behind *Halloween*, in which you play a pumpkin who's lost his candles, and needs a light. So guide the pumpkin round the levels collecting the candles, but avoid the spikes, as they hurt.

```
GADJ 10.'-)}-HELLOWEEN.<<<
LANH 20.'directed by David Hall (c) Oct '92
LANF 30.'for Anstrad Action Spookzine
AALK 40.'
IAPI 50.ENV.3,1,15,5,15,-1,1:ENT.-1,4,3,2,4,-
3,1
HALA 60.ENV.1,1,15,2,15,-1,34:sp=32000
IAKF 70.DIM.grid(20,22):SPEED.INK.100,15
OAPM 80.IF.PEEK(32000)=0.THEN.PRINT."Please wait....":GOSUB.780
HAI 90.MODE.0:BORDER.0:RESTORE.1120
ACEM 100.INK.0,0:INK.1,14:INK.2,5:INK.3,2:INK.4,1:INK.5,6:INK.6,16:INK.7,15:INK.8,3,2,6:INK.9,26:INK.10,25:INK.11,24:INK.12,19:INK.13,18:INK.14,9:INK.15,3
JANL 110.PEN.15:PRINT."DAVID HALL PRESENTS:"
KALF 120.PEN.5:LOCATE.2,2:PRINT."H.E.L.L.O.W.E.E.N"
IAJN 130.CALL.sp,2,10,2:PRINT.le=1:sc=0
DDJG 140.PEN.6:PRINT."It is Halloween and Percy Pumpkin has had his supply of candles stolen.... (he needs them to scare off horrible ghosts and witches)"
EDPI 150.PEN.7:PRINT."Without the candles Percy will be unable to keep himself lit all Halloween night, thus allowing the ghouls to take over the world....."
ECEK 160.PEN.11:PRINT."Help Percy to grab all 10 candles (.) on all 3 levels, but avoid the spikes (x) as these are fatal!"
CBLG 170.PEN.13:PRINT."Play using Up & Down Cursors or Joystick"
IAPD 180.CALL.sp,3,17,19:CALL.sp,4,19,21
JAHK 190.PEN.1:PRINT."SPACE/FIRE TO START!";
KADE 200.IF.INKEY(47)<0.AND.INKEY(76)<0.THE
```

```
N.200
LAGA 210.CLS:PEN.2:LOCATE.1,24:PRINT."LEVEL:..."SC:"
HAKO 220.LOCATE.1,25:PRINT."CANDLES:";
FAJN 230.PEN.4:PRINT."-----"
HADP 240.PEN.9:LOCATE.14,24:PRINT.sc;
KAMF 250.LOCATE.7,24:PRINT.le:ca=0:READ.le:IF IACB 260.PEN.1:LOCATE.1,23:PRINT.le:IF CACJ 270.a=1:b=1
FAPD 280.fl=0:READ.info:
HAMM 290.FOR.loop=1.TO.LEN(info:
JAPM 300.byte=VAL("&"MID$(info$,loop,1))
KAPH 310.IF.byte?7.THEN.byte=byte-8:fl=1
NAGP 320.IF.byte=2.THEN.grid(a,b)=0:px=a:py=b:GOTO.350
NAFO 330.IF.byte=6.THEN.grid(a,b)=0:ex=a:ey=b:GOTO.350
KACO 340.grid(a,b)=byte:CALL.sp,byte,a,b
GAFA 350.a=a+1:IF.a<21.THEN.370
LAIJ 360.a=1:b=b+1:IF.b=23.THEN.xl=1:bck=0:GOTO.390
HABI 370.IF.fl=1.THEN.fl=0:GOTO.340
EAHC 380.NEXT:GOTO.280
MALA 390.tx=px:ty=py:yl=0:a=grid(px,ty)
OAPF 400.IF.a=1.THEN.xl=-xl:CALL.ABCA7:SOUND.4,2000,0,0,3,1,0:GOTO.420
DAOJ 410.tx=tx+xl
MALM 420.IF.(INKEY(72)=0.OR.INKEY(0)=0).AND.py>1.THEN.yl=-1
MACN 430.IF.(INKEY(73)=0.OR.INKEY(2)=0).AND.py<21.THEN.yl=1
GADC 440.a=grid(tx,ty+yl)
GAPM 450.IF.a<1.THEN.ty=ty+yl
IAEK 460.IF.px=tx.AND.py=ty.THEN.S00
LAHE 470.CALL.sp,bck,px,py:CALL.sp,2,tx,ty
KAFI 480.px=tx:py=ty:bck=grid(px,py)
IAGI 490.ON.bck.GOTO.500,500,510,570,500,600
JAHN 500.FOR.pause=1.TO.22:NEXT:GOTO.390
HAKK 510.sc=sc+10:PEN.9:LOCATE.14,24
HAPK 520.PRINT.sc:SOUND.1,50,0,0,3,1,0
GAAP 530.bck=0:grid(px,py)=0
HAJH 540.ca=ca+1:CALL.sp,3,ca+9,25
NAJF 550.IF.ca=10.THEN.grid(ex,ey)=6:CALL.sp,6,ex,ey
CAJK 560.GOTO.500
HAHM 570.SOUND.4,0,0,0,1,0,12:LOCATE.2,11
HAKL 580.PEN.9:PRINT."G.A.M.E....O.V.E.R"
JAPC 590.FOR.pause=1.TO.6000:NEXT:GOTO.90
HAJL 600.SPEED.INK.5,5:sc=sc+le*100
FAFF 610.SOUND.4,20,500,0,1,1,0
JAKG 620.PEN.9:LOCATE.14,24:PRINT.sc:PEN.8
JACH 630.LOCATE.3,10:PRINT."LEVEL COMPLETED!"
JAED 640.LOCATE.4,12:PRINT."COWABUNGA MAN!"
HABH 650.FOR.pause=1.TO.7000:NEXT
MAMG 660.le=le+1:IF.le<4.THEN.SPEED.INK.100,15:GOTO.210
LACJ 670.PEN.1:LOCATE.3,16:PRINT."CONGRATULATIONS!"
LAOM 680.PEN.2:LOCATE.2,17:PRINT."HALLOWEEN IS OVER!"
LAPL 690.PEN.3:LOCATE.2,18:PRINT."...UNTIL NEXT YEAR"
FAHI 700.a(1)=20:a(2)=14:a(3)=2
HAND 710.a(4)=a(1):FOR.loop=1.TO.3
LAIL 720.a(loop)=a(loop+1):INK.loop,a(loop)
DADM 730.NEXT.loop
KAKI 740.IF.SQ(4)<128.THEN.SOUND.4,RND*400,80,0,1,1,0
HAOA 750.FOR.pause=1.TO.30:NEXT
KAEF 760.IF.INKEY(76)<0.AND.INKEY(47)<0.THE
N.710
```

```
GAH 770.SPEED.INK.100,15:GOTO.90
EAMK 780.SYMBOL.AFTER.32
IANG 790.FOR.loop=HIMEM.TO.HIMEM+1000
LABM 800.POKE.loop,PEEK(loop).AND.PEEK(loop)/2
KALJ 810.NEXT.loop:MEMORY.31999:store=sp
HAMF 820.FOR.loop1=1.TO.21:sum=0
GAGA 830.READ.code$,total
HAEB 840.FOR.loop2=1.TO.24:STEP.2
KREG 850.value=VAL("&"MID$(code$,loop2,2))
LAMO 860.POKE.store,value:sum=sum+value
JAND 870.store=store+1:NEXT.loop2
HANC 880.IF.sum=total.THEN.900
KAOO 890.PRINT."Error: line"860+loop1*10:END
GAMB 900.NEXT.loop1:RETURN
HADN 910.DATA.DD460411200021157D1910FD,817
IAKF 920.DATA.ESDD460221ACBF1E041910FD,1246
IAMD 930.DATA.IE50DD46001910FDD10E08E5,1155
HALN 940.DATA.06041A77231310FAE13E0804,902
IAJF 950.DATA.670D20EFC90CCC20C04C9820,1288
HAEL 960.DATA.84CC30200C00000000984084,776
HAOM 970.DATA.4C30400CCC30044C98000000,604
HAKO 980.DATA.000015000050F8FC00F05656,1013
IAEJ 990.DATA.A0A15203A8F4F4FC8A9A9A9,1997
HAFN 1000.DATA.A0A10303A854565600000000,759
HARJ 1010.DATA.000041000002410082024100,585
IACD 1020.DATA.828241008202410082A8FCA8,1368
HAJK 1030.DATA.A85454540000000000824100,615
IAPD 1040.DATA.82456F6F00158A9F00C70045,1007
IAEA 1050.DATA.82158A9F00456F6F00824100,934
HAMI 1060.DATA.8210203000300030203020,466
HAEH 1070.DATA.200000000020202010003020,224
HAOH 1080.DATA.30201020200000000010303,167
HAAL 1090.DATA.0052525202525252025252,742
HAMK 1100.DATA.0252525202525252025252,744
HAKD 1110.DATA.0203030302000000000000,13
HAIN 1120.DATA."NORMAN BATES W02 ERE"
IAFJ 1130.DATA.99999999991480ddd580184940d
JAEE 1140.DATA.ddd8849380ddd8805041999999
IAIB 1150.DATA.18d5913038880418d5019999189
IADO 1160.DATA.891098ddd58885890d50d51d888
IACO 1170.DATA.09d5802dd58806198888ddd8918
HAMM 1180.DATA.830999388494030999990381909
IALC 1190.DATA.9999904958045051d538859d81
IAHB 1200.DATA.5054050180d9d503505105048d5
IAOF 1210.DATA.9d501d585018d59d80505105800
HAJP 1220.DATA.d9580150530501884948045051d
FAIJ 1230.DATA.5488419999999999
HAJA 1240.DATA."FREDDY'S REVENGE"
IAJI 1250.DATA.d99999999d59601810101dd9598
IABH 1260.DATA.8940480dd91c81858038d539380
IACA 1270.DATA.581010184991cc1815151885419
JAGC 1280.DATA.999915999910dd88dd58890dd0d
HAJP 1290.DATA.dd8809430141514151410149188
HANN 1300.DATA.0dd588380194101415141014101
JAFB 1310.DATA.4980dd88d585888d5888d8d984
JANC 1320.DATA.30d5888dd90c40dd099999cc40d
IAGF 1330.DATA.980280988859188889318ddd540
IAAF 1340.DATA.3913191899999910915948ddd580
FAEF 1350.DATA.395d999999999d
IABB 1360.DATA."JASON VOORHEES LIVES"
HAGM 1370.DATA.999910019999148384105188839
HABN 1380.DATA.0d4801051509991059901051588
HAFP 1390.DATA.0490501801059995090d14d1051
HAMO 1400.DATA.488d90d10101051059991014180
HANM 1410.DATA.10515880498010d105999509053
IACH 1420.DATA.101599c480594598d8380dd9054
IAKM 1430.DATA.10d3d4ddd59050101599999593d
IAHA 1440.DATA.10251818c01019d10d105145030
HAPH 1450.DATA.109405101010510510109851001
HABI 1460.DATA.051051351090531045105105961
HAMM 1470.DATA.0945901010510599094501c4105
IANI 1480.DATA.10d8890d1c4105140dd31999910
DACH 1490.DATA.519999
```

## Meteor Storm 3



There are some things man is not meant to do in a reader program. Probably the first and most important thing is not

to put parallax scrolling and massive sprites in your game, as it's not possible. Damn - Dave's managed it. Just thing of this as an obstacle race, guiding your ship around asteroids with cursor keys.



```

XANB 10.' "METEOR STORM III" (C) October 1990
AAJK 20.'
MAGH 30.' a computer program by David Hall
GAMB 40.' for AMSTRAD ACTION
AMXK 50.'
KACD 60.' "HEY! YO RADICAL!", said Leonardo
KAOJ 70.' "RIGHT ON DUDE!", Raphael replied
KAJF 80.' "Oh shut up and go to sleep!"
IABE 90.' .....Munny Shouted
AAIN 100.'
DAPI 110 MEMORY 9999
CABE 120 INK 0,0
CAMH 130 PAPER 0
CAKC 140 MODE 0
CAME 150 INK 7,1
DAAB 160 INK 12,6,15
DAPA 170 INK 14,26,0
CAPB 180 PEN 12
HAEL 190 PRINT "Please wait...."
CAAM 200 BORDER 0
EAEB 210 store=16000
FAPF 220 FOR loop1=1 TO 80
CAHH 230 sum=0
GABA 240 READ codef,total
HAPA 250 FOR loop2=1 TO 24 STEP 2
KAPF 260 value=VAL("&"+MID$(codef,loop2,2))
GAOH 270 POKE store,value
FAJO 280 sum=sum+value
FAOK 290 store=store+1
DAOP 300 NEXT loop2
HAPB 310 IF sum=total THEN 340
LANA 320 PRINT "Error in line";990+loop1*10
BANI 330 END
EABA 340 NEXT loop1
FAJM 350 a$(1)="+KeR-SpLaT+"
GAEH 360 a$(2)="You made it!"
DAKB 370 col(1)=12
DAOB 380 col(2)=14
BAOJ 390 CLS
CAJB 400 PEN 11
EAHC 410 WINDOW 15,19,2,4
GALB 420 PRINT "SPACESTORM..3"
DAHN 430 PLOT 444,334,3
DAPY 440 DRAWR 164,0
DAMB 450 DRAWR 0,52
DAOH 460 DRAWR -164,0
DALE 470 DRAWR 0,-52
FADK 480 FOR loop=16 TO 294
FABA 490 MOVE 496,loop,0
DAHE 500 DRAWR 60,0
DAPM 510 NEXT loop
EANJ 520 WINDOW 17,17,8,20
CAII 530 PAPER 8
BAAP 540 PEN 4
FAGH 550 PRINT "...DISTANCE"
EACC 560 WINDOW 1,20,1,25
CAEI 570 PAPER 0
CAAP 580 CALL 16000
DAMF 590 LOCATE 2,17
DAPL 600 b=PEEK(40000)
DALX 610 PEN col(b)
DANJ 620 PRINT a$(b)
EAEL 630 WHILE INKEY#(">")=""
BAIO 640 WEND
EAGN 650 WHILE INKEY#(">")=""

```

```

BAKO 660 WEND
CAEL 670 GOTO 390
IAIC 680 DATA CDF3E2114C522384A212601,1008
IADC 690 DATA 224B46AF32409C21B888061E,1013
IAJC 700 DATA 36002310FBCDB93ECD463FCD,1351
IAIH 710 DATA CE3FCD0140CD9E40CDC0403A,1405
IAHH 720 DATA 409CFE0020E7C3A7BC3E08CD,1570
IAMD 730 DATA 1E8B201D3E01CD1E8B280B3A,872
IAGF 740 DATA 384AFE2B28043C32384AED5B,1039
HALO 750 DATA 384A21E050062C180A3A384A,739
IACE 760 DATA FE0020EE3D18E0C5D5011000,1276
IADD 770 DATA EDB0D13E0882573006E0150,1279
IAGF 780 DATA C009EBC110E9C921D840DD21,1646
IAHF 790 DATA 204E1600C0B3F06B07EE6AA,1119
IAKF 800 DATA 4F1F81DD7700DD7710DD237E,1317
IACF 810 DATA E6554F1781DD7700DD7710DD,1463
HAEN 820 DATA 2323147AFE082008111000DD,768
IAOC 830 DATA 231D20FB10D3C9ED5F47AF3C,1413
IAKH 840 DATA B928FB10FAC9214F46347EFE,1557
HAIX 850 DATA 04202B3600DD215046110400,558
IAEG 860 DATA AFDD8E012004DD1918F70E50,1242
IAGF 870 DATA CD3B3FDD7700DD3601C00E03,1152
IAIF 880 DATA CD3B3FDD7700DD360301DD21,1202
IAJC 890 DATA 50460643C5DD66017CFE002B,1162
IAFD 900 DATA 27DD6E007EFE1020023600DD,1075
IAKF 910 DATA 7E03DD460280FEC7301BDD77,1418
IALI 920 DATA 03CDBF3FDD7401DD7500AFBE,1503
HAHL 930 DATA 20023610110400DD19C110C8,780
IAKD 940 DATA C9DD36010010F13E080467FE,1301
HANP 950 DATA C030041150C01910F2C9214D,1127
IAKC 960 DATA 46347EFE2AC0360011F4012A,1094
IANA 970 DATA 4B462E224B467CFE00200A7D,912
IAFE 980 DATA FE1220053E0232409CCDC0BB,1227
IAAF 990 DATA AFCDD8E113400210000C3F9,1335
IAEE 1000 DATA BB21B888347EFE2720223600,1131
IACM 1010 DATA DD21B688AFDD23DD23DD23DD,1736
IAKH 1020 DATA BE0120F5DD3601C00E28C3B,1254
IABH 1030 DATA 3FDD7700DD36021DD21B988,1256
IAFK 1040 DATA 0E03AFDD8E0128CDD6601DD,1281
IAPC 1050 DATA 6E00DD7E02FE30380B0603CD,1042
IAIK 1060 DATA BF3FDD7401DD7500DD7E02C6,1477
IAEI 1070 DATA 03DD7702FE30381FD630FE9A,1404
IAPI 1080 DATA 380CFEC8300F3EF9DD960247,1340
IAJA 1090 DATA 1802062F21F04D1816DD3601,751
HACO 1100 DATA 001819DD460221E04D111000,709
IANH 1110 DATA 3E3090193D20FCD5601DD5E,1247
IAII 1120 DATA 00CDE73EDD23DD23DD23DD20,1311
IAFJ 1130 DATA 95C92A384ACD29BC2323E5CD,1460
IAJH 1140 DATA B040E1062DCDF3F060C3E11,1072
IACE 1150 DATA BE30053E0132409C2310F5C9,1073
IABL 1160 DATA 3E04CDADBCFE00D021CE40C3,1720
HANP 1170 DATA AABC04000000001C0F007D00,530
HAHM 1180 DATA 0000040E0F28000000040C0D,102
IAXB 1190 DATA 1E3C28000000C0C0E0F3C3C00,303
IACC 1200 DATA 000C0D0D1E3C3C0005BC0E0F,234
IAAF 1210 DATA 0F3C3C28040E0F0F1E3C3C3A8,541
IAJG 1220 DATA 0D0D0D1E2D3C7C7C0E0E0F2D,510
IAAJ 1230 DATA 1E3C3CFC0F0F0F1E3C3C7C7C,845
IAIJ 1240 DATA 1E1E1E2D3C3C3C3C3C3C3C,890
IABO 1250 DATA 3C3C7CFC3C3C3C3C3C3C3C,1296
IAHL 1260 DATA 3C3C3C3C3C7C7CFC3C3C3C3C,1040
IAEO 1270 DATA 3C3CFCFC3C3C3C3C3C7C7C,1424
IAPM 1280 DATA 3C3C3C3C3C3C3C3C3C3C,1256
JADB 1290 DATA 7C7CFC8143C3C3C3C3C3C3,1984
IACN 1300 DATA 007C7C7C7CFCFC0000FCFC,1756
IAFN 1310 DATA FCF0C000054FCFCFCFA800,2016
HAIO 1320 DATA 000054FCFA800000000045,825
HANL 1330 DATA 880000000000459A64880000,595
HAIO 1340 DATA 00009A9A648800004530CF,832
IANF 1350 DATA CC308800004565CECE988800,1258
IAKP 1360 DATA 00CF0CFCFCFCFCFC0000CF,1799
IAEL 1370 DATA 65CCCC0000CF9865CCCC00,1584
IAHO 1380 DATA 00CF0CFCFCFCFCFC000045CF,1715
IAIL 1390 DATA CECC88000045CF0CFCFC8800,1573
IANC 1400 DATA 0000CF0CFCFCFCFC000045CF,1098
HAJL 1410 DATA CC8800000000004588000000,545
IACC 1420 DATA 003000CF0000300000CF45CE,989
IAKO 1430 DATA CE88000000CF0CECECC000,1780
IALK 1440 DATA 00CF8ACECE44CC0000CF00CE,1442
IAGI 1450 DATA CE00CC0000CF00CE00CC00,1233
IAKB 1460 DATA 00CF00CF00CC000000000045,891
HAMH 1470 DATA 880000000000000000000000,136

```

## Typing listings

If you've never typed in a listing from AA before, then reading this following blurb is a REALLY GOOD IDEA.

● Basically, all you need to do is type in exactly what we print

EXCEPT the first four letters in each line.

● The first four letters are a code which work in conjunction with our unique and utterly excellent TypeChecker program below.

● Only press RETURN when you get to the end of a command line. If a command line goes on to two lines do not press RETURN at the break in the line. Your lines on screen should break in exactly the same place as they do in the mag.

### TypeChecker

This is a program that enables you to check whether you have typed AA listings in correctly. Type it in, then SAVE it for future use. So, when you want to type in an AA listing, and you want to double check that you got it right:

- Load up TypeChecker.
- Type NEW.
- Type in the listing of your choice.
- When you've finished type LIST.
- At the end of every line a highlighted code will appear. It should correspond with the code printed in front of the same line in AA. If it doesn't you have typed in that line incorrectly.

PAML 10.' TypeChecker.V1.0.' By Simon Forrest  
er.' Dec 1992

```

MAOJ 20.' For Amstrad Action Public Domain
DANK 30 MEMORY &9FFF
CAJK 40 csum=0
GAME 50 FOR addr=&A000 TO &A05B
DAKJ 60 READ bytef
GAJB 70 byte=VAL("&"+bytef)
FACT 80 POKE addr,byte
GAFB 90 csum=csum+byte
DALX 100 NEXT addr
OACI 110 IF csum<>&2ADD THEN PRINT "Checksum Error":END
LANE 115 POKE &A001,PEEK(&ABB5B):POKE &A002,PEEK(&ABB5C)
KAHI 120 POKE &ABB5A,AC3:POKE &ABB5B,&3:POKE &ABB5C,&A0
MACN 130 PRINT "TypeChecker.V1.0 Installed":END
MABC 140 DATA CF,FE,93,FE,0A,CA,00,A0,F5,C5,D5,ES,FE,0D,CA,22
LACJ 150 DATA A0,5F,16,00,2A,5A,A0,19,22,5A,A0,E1,D1,C1,F1,C3
LAFJ 160 DATA 00,A0,3E,20,CD,00,A0,3E,18,CD,00,A0,2A,5A,A0,7C
LADI 170 DATA CD,45,A0,7D,CD,45,A0,3E,18,CD,00,A0,21,00,00,22
LACN 180 DATA 5A,A0,C3,1B,A0,FS,E6,0F,C6,41,CD,00,A0,F1,E6,F0
KAJC 190 DATA 1F,1F,1F,1F,C6,41,CD,00,A0,C9,00,00,END

```

Turning TypeChecker off (it is automatically initialised when you RUN the program above) and back on again is quite simple:

```

POKE &ABB5B,0 To turn it off
POKE &ABB5B,3 To turn it back on again

```

TypeChecker was an Amstrad Action presentation brought to you in association with Hairy Happening Productions Ltd.

# Public Image

When it comes to the stars, you ask Patrick Moore. When it comes to plants, you ask David Bellamy. When it comes to *Blake's Seven*, you ask a psychiatrist. When it comes to Public Domain software, you ask Keith Woods.

## Cubulux 2

By Dominique Liard

People involved in the CPC PD scene are really quiet, thinking types, you know. Don't listen to all the talk about drink, fornication and wild, wild parties that you read about in demos - it's all just a front. No, there's nothing a scener likes better than to spend hours on end straining the old grey matter, with the aid of his trusty CPC and a decent puzzle game. And, as if to prove this point, here's yet another puzzler from the

**So what's this one then? Is it a puzzle game? Surely not...**

French coder and fanzine editor, Dominique Liard.

*Cubulux's* concept is refreshingly easy to get to grips with, which is no bad thing, as all the instructions for it are in French. All you have to do is match up blocks of the same colour to make them disappear. Simple.

Er, no, actually. The game might begin that way, but you'll soon find that you can't move blocks around the playing area, you can only swap their positions. Half the screen is always

**A high score table - d'ya mean that many people play this?**

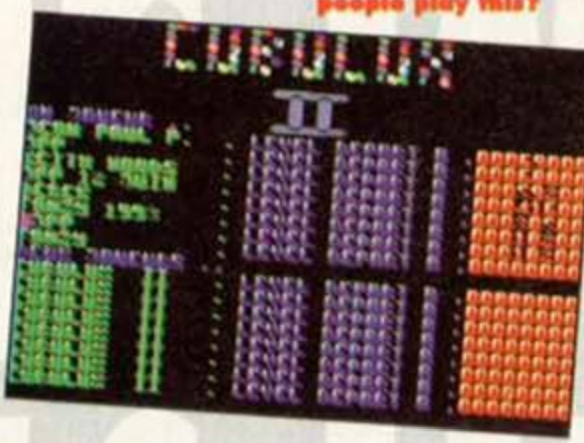
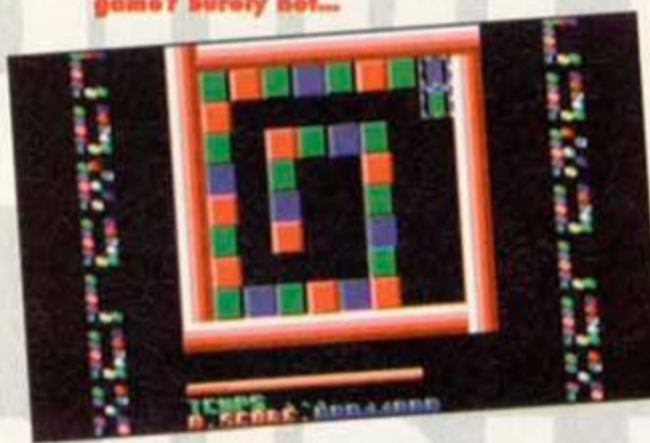


**Well, would you credit it? It's a PD puzzle game. That makes a change...**

blank, and it's impossible to move any of the blocks onto a blank spot. So if you inadvertently destroy some blocks in the middle of a line, you'll usually find that you've completely separated two matching blocks, and you'll have to start again.

Clever level design means that it's difficult to prevent this problem, so you'll need to give careful consideration to every move. But, you're constantly being hurried along by an imposing time limit. This gives the gameplay a nice balance, as it forces you to take risks.

Overall, it's not a bad little puzzler. It will keep you happy for a while, at least until the next in the unstoppable flow of puzzle games is released.



## Forcefield

By David Hall

Cruising along in your spaceship on your way home to Earth - after a long mission in a far off galaxy - you take your eyes off the windscreen for just a minute and fumble around beside your seat for another tape. You always knew that this stupid habit was bound to get you into trouble some day, but never in your wildest dreams did you think that when you looked back up again, you'd be faced with the

most feared obstacle known to space travellers - the mythological Forcefield of Death.

You panic. No-one has ever encountered the Forcefield and lived to tell the tale, and you don't fancy your chances of being the first, especially since you've only got five bombs left on board. At least, though, they're of the particularly enduring bouncing variety, as the 100 layers of the forcefield are made up of many different squares, each of which have to be destroyed separately.

You gather yourself together, take a few deep breaths, and

launch your first bomb. Using your special controller, you guide its movements as it bounces quickly from one square to another, destroying each one it touches. Once you've started the process, you have no opportunity to slow it down, so with sweat rolling down your forehead, you concentrate on your formidable task.

Your biggest problem is the gaps left in the forcefield from the many unsuccessful attempts to destroy it. You can't afford to let any of your five valuable bombs disappear through these gaps into the vast,



**Forcefield. Probably a Puzznic rip off.**



**Yes - Puzznic with a few odd twists.**



**You'd think they'd get bored. Please.**

## Tut's Pyramid

By Phil Coombs

The pyramids of ancient Egypt are one of the seven wonders of the world. But how were these huge structures erected in a time without cars or cranes, spirit levels or builder's bum?

Apparently, if Phil Coombs is to be believed, they were slapped together by a little blokey called Mohamed. But how did just one man transport all those heavy rocks?

On his magic flying carpet, of course! That's not to say that Mohamed's task was an easy one. No, Mohamed took his art seriously, and like any good artist, he had to have the best of materials. He needed to find six fine, big, stone building blocks with which to build his pyramid, on foundations that were already laid in the Valley of the Kings. He needed to do it quickly too, as the old Pharaoh was knocking at death's door, and if Mohamed wanted to remain in the land of the living, he had to fulfil the terms of his contract – which said that the pyramid had to be finished in time for the Pharaoh's passing.

Unfortunately, the 53-screen world which Mohamed inhabited was also home to all manner of nasties bent on making his life difficult, some

54%

Tut, son of Tak, defender of Bojeesus, on his mum's rug.

of which were to prove impossible to avoid. His path was also blocked by many doors, which required certain objects to open them. Often, poor old Mohamed had difficulty in making sense of the association between certain doors and objects, but then maybe he was just getting too old for this game. Perhaps it was his advanced years that also accounted for the alarming rate at which he dehydrated in the desert sun, causing him to drop in on some energy-replenishing oases at regular intervals.

In the end, Mohamed found his task an impossible one. He also found it tiresome and repetitive, which gave him little encouragement to try harder. So it probably wasn't Mohamed that built the great pyramid of King Tut after all. Or was it? If I were you, I'd leave the mystery intact. Trying to find out isn't worth the effort...



## Anti-Multiface

By Merlin J Bond of Mingsoft

What this program does is, as the title suggests, get around the need to have your multiface plugged in when you're reloading material saved with the multiface.

It does this by creating a new file for loading the data into memory. It works perfectly, up to a point. That point is 64k, as it won't work with anything that was saved in 128k format.

This program is most useful for people who've bought a high capacity drive without a side-switch and would like to transfer all their old

tape games to disc, as the standard multiface files don't work with many such drives. For them, it's an absolute must.

80%

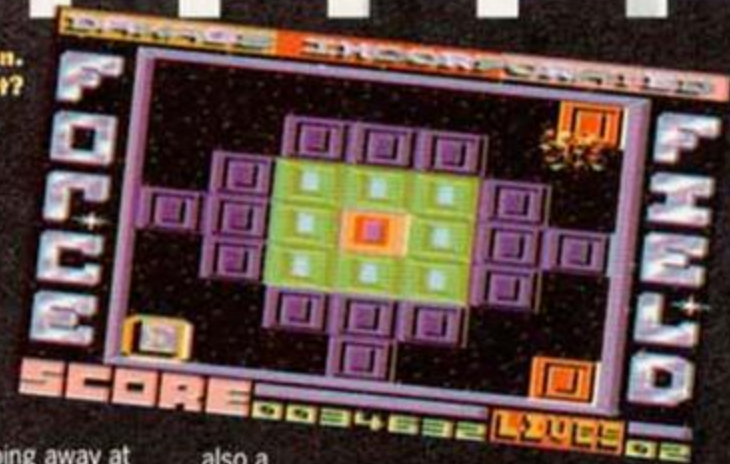


This'll be a puzzle then. Who's churning 'em out?

empty masses of space. But all too quickly, you find that such wastage becomes inevitable (sounds like a metaphor for modern life – Dave).

Just a few layers into the forcefield and you start to get really desperate. You've only just begun, but you can already see your chance of survival slipping away at an alarming rate. Brief glimmers of hope appear in the form of extra bombs and squares that slow your bombs down to a more manageable pace ('Holy Moses' as opposed to 'fwaaargh'). You also notice that one part of the myth about the disastrous consequences of dropping bombs off the edge of the forcefield no longer seems to hold true.

But the odds remain stacked against you – because there are



also a few booby-trapped squares, and devices which speed your bombs up or confuse your controls.

As you watch your very last, precious life slip away with the last of your bombs disappearing slowly into the distance, you remark dryly to yourself that you can easily see why no-one has ever managed to break the forcefield's 100 layers. Indeed, you'd be surprised if anyone managed more than 10. C'est la mort.

65%

## Fraggle MOPS up

Fraggle of MOPS is a name that should be familiar to you, as he is the man responsible for many of the Public Domain's most popular games, among them *Puzznix*, *Jumpmania* and *Crazy Snake*. A 21-year-old German, Fraggle lists his non-CPC hobbies as playing badminton, mountain biking and listening to music. So what have he and MOPS been getting up to recently? We decided to find out...

**When was MOPS formed, and why?**

MOPS was formed a short time after 1993's Cebit Party (in Hanover – Dave). The idea came from GWM and Face Hugger. We decided that it would be best if it wasn't as big as groups like BENG! and that the members should live reasonably near to each other. Everybody tried to think of a name, and Jaysoft came up with *Moving Pixels*, which we all liked. There was no major reason for forming the group, it was really just for fun!

**Do you ever find it difficult to come up with new game concepts?**

No, not really. Most of my game concepts are borrowed. The idea for *Atomic* was taken from a 16-bit game, *Atomino*; *Logic* from *Popcorn*; and *Puzznix* from *Puzznic* – a game still available for the CPC. The reason I coded *Puzznix* was because I ordered a copy of *Puzznic*, but never received it – so I decided to code a version of my own.

**Which of your own games would you say is your best?**

My best game? They are all a little bit lame! (Come on, don't be so modest! – Keith.) Okay, okay, I think *Jumpmania* is my best game technically, *Puzznix* has the best game concept and *Crazy Snake* has the greatest playability (despite the fact that it took me the least time to code – just two weeks).

**What productions have you and MOPS got in the pipeline?**

Well, our next release will be the *MOPS-Demo*. In the last few months I have learnt Assembler, which I used to code my first two demo parts. The demo will also include parts from *Face Hugger*, *Jaysoft*, *Ablaze* and *MOU*.

**Do you think that you will ever leave the CPC?**

I'm sorry to say it, but yes, in the next few months I intend buying an Archimedes. However, I think I'll still do things on the CPC too, as I love this computer.

# The Examiner

Oo-er, missus, the adventure column goes X-certificate as Debby Howard takes a peep at a game that gets the euphemisms flowing. Don't say you haven't been warned.

**CENSORED**

## The Eunuch's Ball

Price: £2 on tape or £4 on disc.

Available from: The Adventure Workshop, 36 Grasmere Road, Royton, Oldham Lancashire, OL2 6SR.

Crossed Cheques/Postal Orders payable to: PM Reynolds.

**WARNING:** This game is for adults only and should not be bought by anyone who is easily offended.

One fine, summer's morning, you wake up to find a letter from your Uncle Edan. Opening it, you quickly read the contents. It tells you that something important has been stolen from Uncle Edan's place, and it is your task to find and retrieve that item. He dare not even identify the object by name; but you will know it when you recover it. Since you have been promised rewards beyond your wildest dreams if your recover it, you quickly set off.

This is a GACed text-only game written by Phill Ramsay. It has previously been released by Dragonsoft (c), or at least a variation on it has; the Dragonsoft game was by the same author, but apart from the same scenario, the game are completely different.

This version is quite large for a GACed game with

approximately 87 different locations to explore. That's certainly enough for you to be kept busy on a few rainy days.

It is quite rude in some places, so don't order it you get offended by all that sex stuff, but if you don't mind a bit of *Confessions*-style bawdiness you'll probably enjoy matching up the objects to the puzzles.

You will have to go looking for some objects, so don't expect an easy time. Examine everything will help you find what you are

looking for especially if you find yourself in a field. I could find only one location from where you couldn't return so (here's a hint) save your position before you leave the altar.

It's worth the asking price, if you're not a beginner. If you are, then be prepared to ask for lots of help.

**REVIEW**

## Where to go

If you're looking for new and re-released adventures, drop these people a line (enclosing an SAE) for their latest stock lists.

Adventure Workshop, 36 Grasmere Road, Royton, Oldham, Lancashire, OL2 6SR.

Amstrad Adventure Solution Service, 10 Overton Road, Abbey Wood, London, SE2.

WoW Software, 78 Radipole Lane, Weymouth, Dorset. DT4 9RS.

89%

## Cluepot

Continuing from last month, here are a few more hints for Five On A Treasure Island, courtesy of Stephen Bosco.

## Five On A Treasure Island

- 17 Get spade, ignore onion.
  - 18 Go back to Julian and company.
  - 19 Go north, west, north. Ignore the dark and just type GET TORCH then go south.
  - 20 East, up, then go to the spare room and examine the bed, get matches.
  - 21 Go to the aunt and uncle's bedroom and get the batteries.
  - 22 Go down.
  - 23 Go to uncle Quentin's study and out through the french windows; you can examine and read the books if you want.
  - 24 Go to the shed and get the rope.
  - 25 Go out of the cottage and then go south to the beach.
  - 26 When you get to the fisherman's place, Alf will be waiting.
  - 27 Talk to Alf and he will get Timmy.
  - 28 Become George and enter the boat.
  - 29 Row boat until you get to Kirren Island.
  - 30 Pull boat up to the top.
  - 31 Go to middle of the island.
  - 32 Eat cake then get crumbs.
- To be continued...

## Lords & Ladies of Adventure

If you're stuck on one of the games listed below, the person listed next to it will be willing to give you a hand (because they've already completed it, y'see). If you write to them please remember to enclose an SAE with your enquiry and DON'T ask for a full solution, as you'll probably be disappointed. If you want to become a Lord or Lady please write in with a list of the games you've completed

● Most Amstrad Adventures – The legendary Joan Pancott  
☎ (0305) 784155 from 1pm to 10pm.

● Adult 2, Boredom, Can I Cheat Death?, Doomlords 1-3, Dungeon, Escape, Firestone, Jason & The Argonauts, River, Spacy, Tizpan,

Welladay – Stuart Mainland, 2 Douglas Road, Coylton, Ayr, KA6 6JJ.

● Avon, Forest At World's End, Hollywood Hyjinx, Kobayashi Naru, Mordon's Quest, Scapghost – Angela Allum, 22 Point Royal, Bracknell, RG12 7HH.

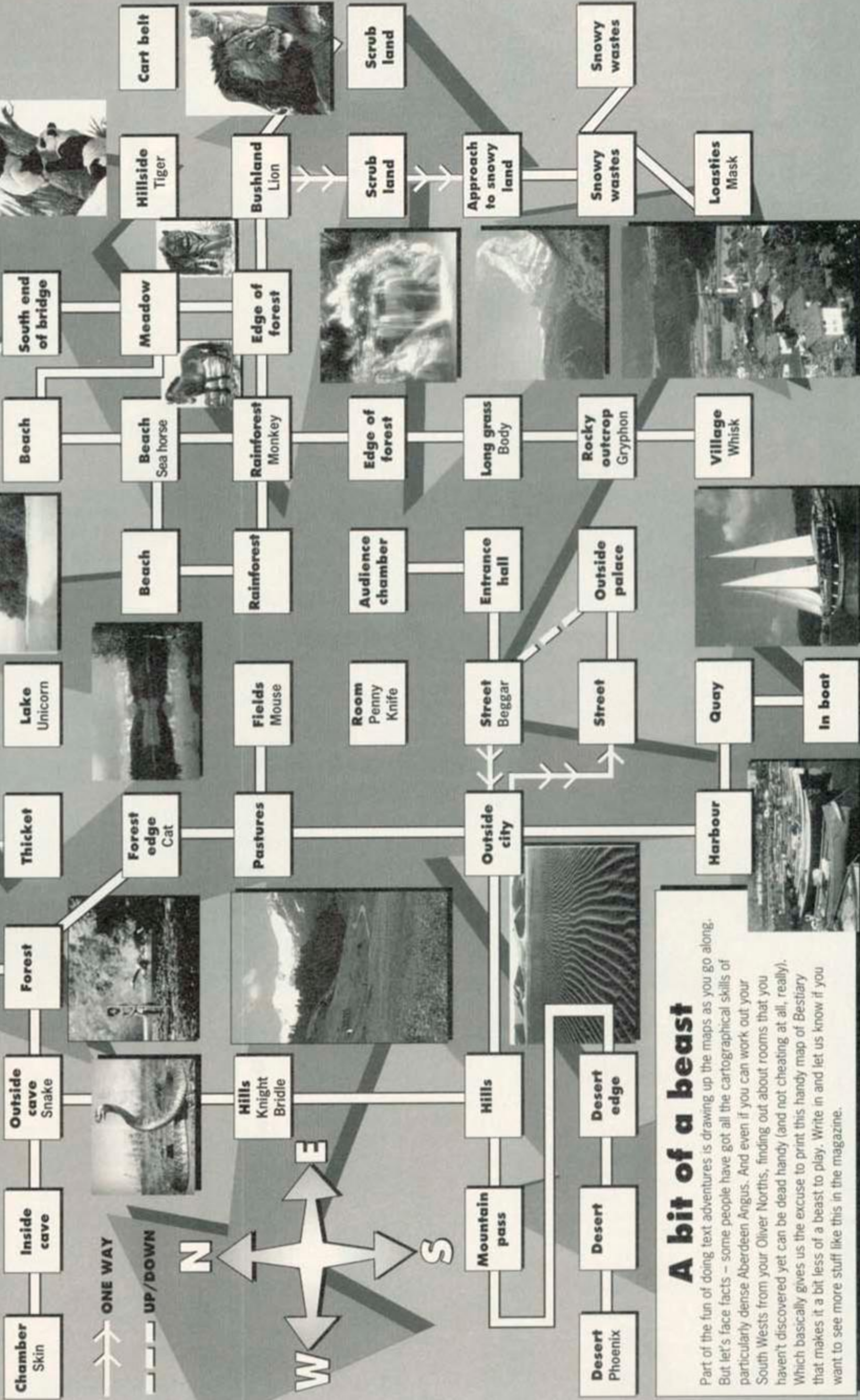
● Nightmare, Kobayashi Naru, Rebel Planet, Who's Afraid Of The Balrog? – Ross Younger, 3 Cammo Parkway, Edinburgh, EH4 8EP.

Here are some Ladies - we're not too sure what's happened to the Lords.





# BESTIARY



## A bit of a beast

Part of the fun of doing text adventures is drawing up the maps as you go along. But let's face facts – some people have got all the cartographical skills of particularly dense Aberdeen Angus. And even if you can work out your South Wests from your Oliver Norths, finding out about rooms that you haven't discovered yet can be dead handy (and not cheating at all, really). Which basically gives us the excuse to print this handy map of Bestiary that makes it a bit less of a beast to play. Write in and let us know if you want to see more stuff like this in the magazine.

**Q. What's large, hairy, difficult to understand, and lurks scarily around the AA offices every month? A. Richard Fairhurst's Techy Forum column (we lied about the hairy bit).**

# Techy



## I've lost my key

Is there any way to bypass the 'Press any key' bit when you want to load a program from tape? I want to create a loader program (with picture), then load the main program from this without having to press the key to start the tape again (I'm using BASIC).

R Hotchkiss, Telford



Simple: you put an exclamation mark at the start of the program name. So, instead of RUN"GAME", you would use RUN"!GAME". **Richard**



## That's motoring

I have recently bought Klax, Seymour Goes To Hollywood



and your Exolon covertape for my 464 Plus. The problem is that after the program has loaded, the cassette motor keeps running, only stopping at the end of the tape. This does not seem to affect the running of the latter two

games, but in Klax, every time a tile falls off the conveyor, the solenoid for the cassette motor clicks on and off repeatedly. I have returned the tapes and the replacements have been exactly the same.

Do you think this is a software fault, or perhaps a fault in my computer (most tapes load okay on every attempt), or are these tapes incompatible with the Plus? Is there any kind of POKE - Multiface or otherwise - that will switch off the solenoid, and will it damage my computer to run a game with the solenoid constantly "on"?

Colin Waldron, Glasgow



There's nothing wrong with leaving the cassette motor on during a game; it won't hurt your Plus at all. It could be a Plus incompatibility problem, but it's not one to worry about. The Klax problem is more worrying. It might be an intriguing use of the motor as a sound effect generator, but it sounds more like a far less interesting case of Plus incompatibility (the design of the chip used to turn the tape motor on and off is one of the more significant differences between the CPC and the Plus machines).

It's not a good idea to let the motor click on and off like this. It could overheat, leaving you with a nasty repair bill. You could give up on Klax altogether (don't - it's too wonderful a game to ever stop playing, and I wish a plague on Richard for ever suggesting you should do such a horrible thing - Simon), or ask a friendly electronic repairman to modify the connection to the motor relay so that it stays on permanently (they could even wire in a handy little switch for you to operate). **Richard**



They're way too small.



## Serial: part 1

Is it possible to transfer files from the Psion to the 6128 and vice versa?

Alan Robinson, Brough



The Psion isn't actually PC compatible, but it can be connected to one using the universal standard for linking computers, RS232 (as in the Spitting Image song of the same name). This basically means that you can link two computers with a cable which allows you to send data from one to the other. Most PCs have an RS232 interface built in. The CPC doesn't, but you can buy one from Siren Software (£29.99, 061 724 7572) or Avatar (£39.95, 0274 602180).

The one thing you will need to check is that the Psion can send its word-processor files in ASCII format - which simply means pure text, with no embellishments such as bold and italics. Its default is to send RTF (Rich Text Format), which is a standard used in the PC and Macintosh world for transferring files with such information intact; unfortunately, no CPC programs support it. Check your manual before you splash out on a serial interface, though - you don't want to waste your money. **Richard**

## Top Tips

### Arc-tipster

**1** If you want to do a JP (BC) or a JP (DE), just use the stack: type in PUSH BC: RET for BC and PUSH DE: RET for DE.

**2** A quick way to clear the screen is to disable interrupts, re-align the stack pointer to &0000, and keep pushing zeros to the stack. Don't forget to re-align the stack pointer and to enable interrupts afterwards.

**3** Don't use SET b,A, but instead OR n, in which n contains the bits to be set. Similarly, don't use RES b,A, use AND n, in which n is the complement of the byte which contains the bits to be set.

**4** To find the value of the program counter (PC register), type CALL findpc, which is this very simple subroutine:

```
findpc: pop hl:jp (hl)
```

**5** For those of you who want an arcsine and an arccosine function to go with the BASIC arctangent function, they are:  
10 DEF FNasin(sine)=ATN(sine/SQR(1-sine\*sine))  
20 DEF FNacos(cosine)=ATN(SQR(1-cosine\*cosine)/cosine)

Adrian Lybaek, Canada

### Free transfer

Do other readers realise that any games which load in blocks can be transferred to disc using the JL-Copy program (covertape 22 from A488)? Did you know that it is possible to load a binary file of no more than 22k into Devpac? I have found it very useful for finding Multiface pokes.

Also, I am able to offer help with some BASIC problems, so I would be most grateful if you could print my address.

Carl Thomas, 3 Monmouth Way, Barry, South Glamorgan CF62 9AE

### RSX of the month

This month's entry for your toolbox is a simple command called IPUTKEY. It harnesses a feature of the Amstrad which you can't normally access from BASIC - the ability to pretend that you've pressed a key (you can only use it once before you read a key again, mind you).

```
10 MEMORY &9FFF
20 FOR n=&A000 TO &A026
30 READ a$: POKE n,VAL("&A"+a$)
40 NEXT n: CALL &A000
50 DATA 21,09,A0,01,0D,A0,C3,D1
60 DATA BC,00,00,00,00,12,A0,C3
70 DATA 19,A0,50,55,54,4B,45,D9
80 DATA 00,DD,6E,00,DD,66,01,23
90 DATA 5E,23,56,1A,C3,0C,8B
```

I found this very useful recently while writing a database. I tested for keys being pressed with INKEYS (CTRL-S to save, CTRL-L to load, that sort of thing), and if the key was a character between

# Forum

## Up the creek? Then we've got the paddle

If your CPC's got you in a technical jam or a programming pickle, Techy Forum is here to help you out. Send your questions or tips to: Technical Forum, Amstrad Action, Future Publishing, 30 Monmouth Street, Bath, Avon BA1 2BW. You know it makes sense.



### Serial: part 2

**1** I was very pleased to see *Mastercalc* on the covertape. But when I load it in from disc (it was transferred using

the tape-to-disc utility supplied), I get the message, 'Is the serial interface to be used?' Is this my computer playing up, or is it something I am doing?

**2** I recently purchased a second-hand Protek modem. Is there any way of connecting it to the Siren Software serial interface I also own?

**3** Can you recommend a good (and fairly cheap) modem, as the Protek cannot be used for auto-dialling?

**4** How far apart can I put computers when connected by an RS232 interface? I have been told it is about three metres.

Gary Firth, Halifax

connector may vary. It will probably be a 25-pin (count them!) D-plug; in other words, the top is slightly wider than the bottom (or vice versa). If this is the case, you need a standard RS232 computer to modem cable, which your local computer shop should be able to supply.

**3** Cheap in modem terms means around £80. Check out *Micro Mart* and the big fat PC magazines for adverts; it's well worth it, because the money you spend on a fast (2400 baud) modem will be saved in terms of the shorter time you have to spend connected.

**4** That's about right, yes. Much more and you might start having problems. **Richard**



question, it blanks it out from the array, by changing it to a blank – this is what `a$(a)=""` does. In future, if it tries to pick this question again, line 210 will notice that it's a blank, and go back to pick another one.

Picking 40 out of 300 questions is easy. Just read 300 questions into the array `a$(a)` (probably from DATA statements), and then pick 40 random questions out of it using a loop such as:

```
500 FOR n=1 TO 40
510 a=INT(RND*300)+1
520 ...deal with the question here
590 NEXT n
```

You'll probably want to put in the piece of BASIC that avoids repeated questions at around line 520.

To jumble up the multiple-choice answers, just swap random answers around a couple of times. If there are four choices – `r$(1)` to `r$(4)` – this will do the trick:

```
600 FOR n=1 TO 10
610 a=INT(RND*4)+1; b=INT(RND*4)+1
620 i=r$(a); r$(a)=r$(b); r$(b)=i
630 NEXT
```

If you're working like this, you'll need to store the correct answer as a string first of all, not a number, because which number goes with which string will get mixed up when you shuffle the questions around.

Finally, the best way to remember which questions you got wrong would be to define an array – call it `wrong$(a)` – and, every time you make a mistake, get the program to put the question in the array. You can then go back at the end and, on the basis of this array, print out all the questions which you got wrong. Here's how you could do it:

```
100 incorrect=0 "No wrong answers so far"
700 incorrect=incorrect+1 "One more wrong answer"
710 wrong$(incorrect)=a "Store the question"
1000 PRINT "You got these questions wrong:"
```



### A question of questions

I'm writing a multiple-choice question and answer program to help with a 'rules test' that I have to endure at work.

I have made the program pick the questions at random, but the trouble is that sometimes it picks the same questions three or four times. I thought my prayers had been answered when I bought *A498*, as I noticed a letter in *Techy Forum* entitled *\$64,000 Question* that seemed to mirror my own problem. Not being a very experienced or knowledgeable programmer, though, I was completely stumped by the gaps in lines 210 and 220:

```
210 IF a$(a)=? THEN 200
220 n=a$(a): a$(a)=?
```

Please could you fill the gaps for me? I know they're for when a blank string is picked, but I don't understand how it works. Also, I would like to eventually have about 300 questions, and, on running the program, I would like it to pick 40 questions at random. Is there a way of scrambling the questions so that they are not always in the same order?

Is there any way I could go back to the questions I got wrong when the quiz is finished, so that I can look them up? I realise I am probably asking the impossible, but any help would be deeply appreciated. **Chris Efthimiou, Milton Keynes**



The gaps in lines 210 and 220 are meant to be empty strings. The program has to first of all read the questions into an array (`a$(a)`), and then pick a question number at random (`a`). Once it's read the



**1** When the disc version of *Mastercalc* loads, the first thing it does is set up all the ROMs connected to your system; *Protext*, *Utopia* and any disc

operating system fitted, for example. There's a ROM inside your serial interface, and during its set-up process, it asks you whether you will want to use its full set of facilities, hence the prompt. Reply N, because you don't need serial interface facilities from within a spreadsheet (if the program doesn't work, try disconnecting your serial interface).

**2** It depends on what sort of connector the Protek has. Theoretically, it should be RS232 of some kind (see the previous letter), but the

It's a bit of keyboard, yes.

A and Z, the program had to jump straight into the field editing mode, as this was the character to be put in the field.

Problem: the A-Z key had already been read, and so the consequent `INPUT` command wouldn't pick it up. Solution: use this command to pretend the key had been pressed again. The syntax is elementary; if `a$(a)` contains the character you want to put back, use `INPUTKEY,@a$(a)`. Enjoy.

By the way, if you've got any toolbox routines, you can send them along to *Forum* or, if they'd be of value to those learning assembly, you could send them to *Assembly Line*.



```
1010 FOR n=1 TO incorrect
1020 PRINT wrongf(n)
1030 NEXT n
```

Hope this helps! **Richard**



### As seen on screen

**1** How do I store the hexadecimal bytes of a certain section of the screen

memory in BASIC DATA statements, so that I can load and save them with disc?

**2** How do I create graphics such as sprites in machine code? If I used a sprite designer to create the sprites, how would I use them in machine code (the sprite designer is written by me in BASIC)?

**3** If I want to write an art package, how do I clear the cursor?

**2** How do I do the following in machine code?

**a** Store more than one number or value in the accumulator?

**b** Load a file from tape or disc, like they do in multi-load games?

**c** Check inputs from the joystick or the keyboard, and if there were no inputs, get the program to move onto the next command?

**d** Operate five radio-controlled servo motors? The power will come from a power supply, and they are connected to the computer via an umbilical cord.

**e** Make vector graphics?

**5** Do you know of a machine code overscan loader for use in BASIC programs?  
**Kevin Long, Cumbria**



**1** First of all, let's check that you understand how screen memory works. The top-most pixel line of the screen is stored in 80 bytes, from &C000. The next one down starts at &C800, and the progression then goes &D000, &D800, &E000, &E800, &F000, &F800, &C050, &C850... and so on. Things change when the screen is scrolled, but we won't worry about that.

So, for question one, first of all you need to find the screen address of each line that you want to save. Store this in the

variable 'a'. You'll also need a variable cline, to store the current line of the program you're writing; start at 1000, say, and add 10 after each line. You can then output a DATA line of b bytes to an open file using the following:

```
200 PRINT#9, STR$(cline); " DATA ";
210 FOR n=1 TO b
220 PRINT#9, "&"; HEX$(PEEK(a+n-1));
230 IF n(b THEN PRINT#9, ", "; ELSE
PRINT#9
240 NEXT n
250 cline=cline+10
```

**2** The basic principle of a sprite is that you read bytes from an area in memory and write them to the appropriate screen address. I could waste space by explaining exactly how to code a sprite routine, but instead I'll just refer you to Simon's recent article on exactly this subject in AA101.

**3** There's a special graphics mode known as XOR mode. This has the huge advantage that if you draw an object on the screen, drawing it again in the same place will erase it. To enter XOR mode, PRINT CHR\$(23);CHR\$(1); to turn it off, PRINT CHR\$(23);CHR\$(0);.

**4a** You can't. The accumulator can only hold one number at a time. If you need to store more numbers than this, put them in a variables area somewhere in your program.

**4b** You need to open a file before you can do anything with it in machine code. To open a file for loading, load B with the length of the filename, HL with its address and DE with the address of a 2k area of memory that you won't mind getting messed up – the computer needs it to store data between getting it from the disc drive and you asking for it. Then CALL &BC77. Opening files for saving is the same, but you should CALL &BC8C instead.

You can then read a byte in one at a time using CALL &BC80 (the byte is returned in the accumulator), or write the value A using CALL &BC95. If there's a problem with this (eg, the end of the file was reached), carry is false on return. Alternatively, if you load HL with an address, CALL &BC83 loads the whole file into memory from that address (the equivalent for saving memory is &BC98; HL must contain the start address, DE the length of the area in bytes, BC an entry address – this isn't essential – and A the file type, usually 2 for binary). Note that you can't

mix &BC80 and &BC83, or &BC95 and &BC98.

Finally, to close the file, use CALL &BC7A for an input file (loading) or &BC8F for an output file.

**4c** More firmware calls – CALL &BB09 scans the keyboard to see if a key is pressed. If one is, carry is true and its ASCII value is in the accumulator. If not, carry is false, so you can skip to a bit of the program using jp nc,label. If you use CALL &BB06, the computer waits around until a key is pressed, and then returns its value in the accumulator.

**4d** It depends how they've been connected to the computer. If you're using an input/output port connected to the expansion port, it should have come with appropriate instructions. If you're using the printer port, you can send the character in A to the port using CALL &BD31.

**4e** Vector graphics are horribly difficult and complicated, and require oodles of programming skill and probably at least A-level Maths. Stick to something simpler until you're a more experienced programmer.

**5** There's one available, called Overscan (imaginatively enough), from a PD library near you. **Richard**



### Upgrading again

I am thinking of upgrading my 464 Plus and would like to ask:

**1** Does a 64k RAM pack enlarge the range of software available?

**2** Is it more advisable to buy a 3-inch or 3.5-inch disc drive, and can you recommend one?

**3** Can you recommend a cheap printer?

**4** What does a 40025 upgrade ROM do?

**5** Do you need a Wave Widget to connect these to my Plus machine?

**Stuart Neill, Belfast**



**1** Yes – you can then run a wider range of games, and many more serious packages. Remember, you don't need a RAM pack for a 464 Plus, as it

can be upgraded internally; we published a project recently to do exactly what you want (AA90 – back issues plugging Ed), or you can send your computer to Avatar or BTL for them to do it for you if you're a bit nervy about opening up your machine.

**2** It depends what you want to do. Commercial games and many utilities are only available on 3-inch disc, but 3.5-inch discs are cheaper and you can get PD on them just as easily. It might

be best to buy 3-inch first and then save for a second 3.5-inch drive.

**3** We've always liked the Star LC series – the current cheap incarnation is the LC-20 – but the Citizen ABC is a good new printer.

**4** It's for CPC 464 owners, so that their machine has all the extra commands of a 6128. The 464 Plus does anyway, so you don't need one.

**5** You'd need one for a RAM pack, but not for anything else. **Richard AA**

## Covertape queries

**1** With issue 96 you gave away a program called **Screen Designer** on the covertape.

When you save your picture and load it in again, it stops after it loads

in. Is there any way to keep loading and run another program after it?

**2** With issue 92 you gave away **BooTracker**. There is a file on the tape called **QUICK.BOO**. When you try to load it into **BooTracker** it does nothing. Why is it there and what does it do?

**David Cash, County Antrim**

**1** You need to write a short loader program to do this. Say that you want to load a picture called **SCREEN** from the tape and then run the next program, called **GAME**:

```
10 MODE 1
20 LOAD "!SCREEN", &C800
30 RUN "!GAME"
```

**2** **QUICK.BOO** is a collection of instruments which you can use in your own tunes, to save you the hassle of designing them yourself. It doesn't actually play a tune or anything like that. **Richard**

*A new kind of loading problem.*



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Columns 3





# FLUFF

So, is it the platform game to end all platform games? At last Simon Forrester can give you the definitive answer...

Okay, we admit it. We were hedging our bets last month in the preview. We wanted to say we liked the game, but we went out of our way to nit-pick, just in case what Radical finally produced didn't live up to the promise of the preview version of the game we saw. All that's behind us now, though, as the long-awaited *Fluff* comes under the reviewer's hammer over the next two pages.

The game is all about a pink ball of fluff called, funnily enough, Fluff, who's trying to rescue her four children. It's a Plus-only, horizontal scroller, and it's been billed (by the author) as having the best gameplay ever on the CPC. It's here things get difficult for *Fluff*. If a game is going for a title like, 'best gameplay ever', it'd be wise to steer clear of such extensively explored genres such as the platform game. Still, there hasn't been a perfect platform game yet (though *Prehistorik* came close), so it's still in with a chance.

## The power of the press

In last month's preview, Clur, Dave and I all had a chance to comment on what we thought of the game so far. Dave was, in his own words, churlish.

I really have no idea what 'churlish' means, so I'll summarise; he decided that though the gameplay gets bogged down occasionally with programming techniques, this is only what the consoles have been doing for years, so that's okay.

Clur recognised an obvious potential in the game, but still worried about a few elements that might get on her nerves when playing it.

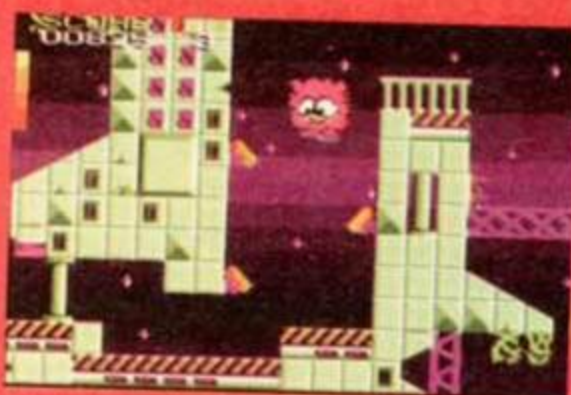
I personally (being a picky little sod) had a few reservations about the movement of *Fluff*, and the smoothness of some of the animations. The sequel to the fabulous *Elite*, namely *Frontier*, (available on the PC

and Amiga right now) is suffering the same problem - its gameplay goes deeper than any other game ever, but it was presented about as well as the Brit Awards. I then went into the realms of propeller head comments, and picked on the programming. I feel sort of guilty for this really, as apparently Rob Buckley then went and reprogrammed a largish chunk of the game. Has it done him any good?

When you first pick up the joystick and start playing, you'll notice immediately the attention to detail. Whereas many other platformers would



The big blue wasps can't be killed - spinning just stops Fluff getting hurt.



The Pink One gets thrown about by a set of springs as she tries to get to the rail.



This begs the question, "what the hell am I supposed to do now, then?" somewhat.



She's made it - it's one of her kiddies, and he looks pleased to see his mum.



have been content to let you wander past the same type of graphics throughout the entire game, each of *Fluff's* levels has a distinct, unique feel to it. In the classic platform game style, there's an icy level, an industrial metallic zone and all the other clichéd zones, but we can't hold that against it - you're no more slippery on ice than you are on metal, so it's nothing to knock marks off (or put marks on) for - they're just graphics to liven up the levels a bit.

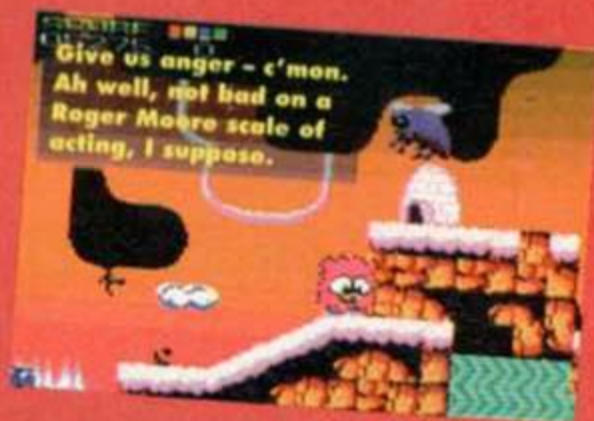
## New improved Fluff

*Fluff* herself handles quite well (there aren't many times you can get away with saying 'she handles quite well', but I've managed well so far). As opposed to the preview version we saw, the new improved *Fluff* is fairly heavy, and doesn't have the reluctance to get up to speed that she used to - she's still got inertia, but it complements the game instead of getting in the way.

The bad guys are all very straightforward, usually moving in a set pattern within a predefined area, so they're fairly easy to kill, using *Fluff's* spinning abilities to mash up even the hardest of pterodactyls.

So *Fluff* journeys through 12 scary, hostile levels, rescuing her four kiddies who repetitively run off at the start of each one. Level one should have been a quest for a playpen, and level two should have rewarded her with a padlock. We wouldn't need to play through the other 10. Of course, such technology isn't available to our pink fluffy thing, and so she's destined to roam 10 more dangerous, torturous levels, rescuing her kids.

The levels aren't all the same, though - there are the distinctive differences; some have



teleports, while others automatically scroll whether you like it or not. But they all have the basic elements of *Fluff* – platforms, kiddies and lots of decent, old-fashioned gameplay. Breaking the mould of most games for the CPC, *Fluff* is actually incredibly good fun. It's not faithful to any arcade original, a poor second to a 16-bit version, or a classic game dragged from the mists of time. It's a platform game, and it's fun. That's all.

It's incredibly lush to look at – everything is beautifully drawn, the scrolling's smooth, the animation is wonderful (and Rob Buckley claims it'll be even better by the time it goes on sale), and things move too fast rather than too slowly.

### Acid sounds

One part of the game that's been added since we last saw it (other than ten of the levels) is the sound. There are no individual sound effects for either *Fluff* or the bad guys, but there is a running theme of sorts; it owes more to industrial-acid-jazz than to normal musical form, but it's a decent enough tune that thumps away in the background.

One of the problems with the preview version was speed – the game either ran too fast to cope with, or too slow to tolerate. The final version has definitely overcome this problem. There's no slow-down when the screen gets cluttered, and there's no long, boring wait for your little pink valkyrie to get



### New material

When programmers start going into the realms of pink balls of fluff, it has to mean that they're getting short of material to write games about. If anyone's thinking of writing a platform game, they might like to consider a few of the following:

- *Sam Spade*, the environmental game – "I really dig the earth, man"
- *Colander*, in which the player has to wash vegetables within a certain time limit, the penalty being having to wash the damned thing afterwards (sounds like you speak from bitter experience – Dave).
- *Mad Woman With Dog*, in which you, playing the dog, have to jump on someone and tear their throat out with your teeth within the allotted time limit, that being the time it takes for the woman saying, "he just wants to play, you know".
- *Pro Tourist Sim*, in which you have to guide your character through the crowded levels of a beautiful, historic city, stopping at exactly the right moment to make the people behind you panic, try to avoid bumping into you, and fall out into the road.

These bars show you how many kids you've got left to find.

Fluff, in a spin - the only way she can kill the buddies.

An evil waspy fling that's just about to have its sting removed.



The lifts are often the only way you can reach certain parts of the levels.

A poor little worm, about to impale himself on the spikes (or vice versa).

up to speed. The level are ingeniously designed – there are secret passages in abundance on later levels, along with conveyor belts, lakes with secrets in their depths and all manner of other goodies which

I won't spoil by telling you about. One reason for making each level so different is to give the player a sense that they're getting somewhere; disguising the same objects in different graphical guises isn't going to cut it. *Fluff* doesn't even try to pull a fast one – every level has some distinguishing features.

### The wait is over

My kingdom for a verdict. There are a few reasons why I'm loathe to give *Fluff* higher than, ooh – 90 per cent. First, there's a slight problem with the difficulty curve, because the second level sticks out as being too tricky, considering that level three is easier by far. And there are no real original



If you want well-drawn graphics, take a look at that tree. Craftsmanship, that is.

ideas in the game – everything's been done before, admittedly not as well, but there's no real hook or gimmick to the game other than its speed and superb graphics. Perhaps some power-ups that gave *Fluff* some special powers would have given the game that extra spark of personality.

And it's a shame the game's Plus only, but that's one of the reasons it's so damned good; if the game had been written to run on all machines, it wouldn't run as fast or as well – it's Plus only, disc only and better off that way.

So *Fluff* is an impressive piece of coding that undeniably shows off the Plus at its best in technical terms, and as a game it's certainly hugely enjoyable. But there's still room for better platformer, I reckon. **Simon**



### VERDICT

FLUFF ■ RADICAL SOFTWARE  
081 856 8402 ■ ETBA

|                      |   |            |
|----------------------|---|------------|
| <b>GRAPHICS</b>      | It looks incredibly impressive – great artwork, superb animation. | <b>95%</b> |
| <b>SONICS</b>        | No sound effects but a relatively thumping theme tune.            | <b>65%</b> |
| <b>GRAB FACTOR</b>   | Doesn't so much grab you as push your face through the monitor... | <b>85%</b> |
| <b>STAYING POWER</b> | ...And the odds are you won't pull it out again too soon.         | <b>90%</b> |

**RATING 90%**

# Amstrad



On your marks, get set, go! Lee Rouane sorts out the healthy specimens from the physical wrecks in an A-Z of the some of the best and worst CPC sport simulations.

## 3D Pool (Domark)

First class pool sim with all the rules and features of the real thing. The game is unique in that you don't control a cue of any kind; instead, you manoeuvre the table to the line that you wish the ball to take. Once you have grasped the gameplay however, you are confronted with an excellent game made even better by its budget price. **80%**

## 4 Most Super Sports (Alternative)

Possibly the worst compilation of any sort ever with two bad games (*Cricket International*, *Championship Sprint*), one of the worst games ever on any format in any parallel dimension (*Kentucky Racing*) and one that doesn't load at all (*US Basket Master*). Avoid like Noel's House Party. **25%**

## California Games (Kixx)

Fun, fun, fun in the sun, sun, sun goes the song and this game has plenty of both. Take part in four events (foot bagging, surfing, roller skating and BMX freestyle) and try to earn loadsa points. Some of the events are wickedly hard so don't expect to pick it up straight away. Good value, though, as each event is a game in itself. **67%**

## Chase HQ (Ocean)

Maniac Porsche driving antics here, in what has to be the most graphically stunning and playable driving game ever on the CPC. Coupled with the novel feature of ramming the baddies into surrender, this one will certainly have you burning the midnight oil. **90%**

## Continental Circus (Mastertronic)

Now this is (even) more like it. Drive your Formula 1 racing car around eight different tracks around the world, whilst trying to keep your car up with the rest in order to qualify. Excellent graphics but the gameplay is what makes this one really shine. Number one for driving fans. **92%**

## Daley Thompson's Decathlon (Ocean)

This one was one of the first to appear of its kind on the CPC, and in its day, it kicked butt. You

have to control Daley in all 10 of the Decathlon events (pole vaulting, swimming, javelin, running at various distances, something with weights and, er, some other things) and apart from the control method – wagging the joystick until you either give yourself a hernia or the joystick breaks – it was, and still is, a good jaunt. **74%**



## Hard Drivin' (Domark)

Sports car frolics abound as you do your best to loop the loop and avoid crashing in this stunt track game with Freescape graphics. The whole thing is very playable although the graphics look a bit dull at times. **75%**

## Harricana (Loricel)

Take control of a snow-bike in a race against time set in the snowy wastes of the Arctic. The bike is very easy to control, and there's a great feeling of speed. All in all, a good one for the collection. **73%**

## International 3D Tennis (Palace)

Amazingly real tennis sim where the players look like a pile of triangles, but don't let that put you off. All the usual tennis features are here, but a kind of 'aftertouch' helps you to dip the ball away from your opponent at inopportune moments. Worth every penny. **81%**

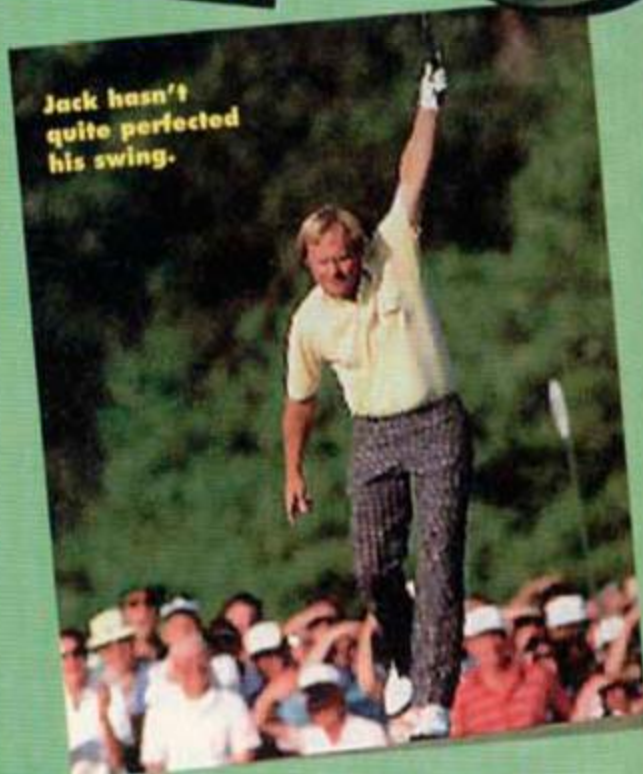
## Italia '90 (Virgin)

Side-view soccer that pushes *Italy 1990* close for the top spot of side view footie games. Average graphics but half-decent gameplay make this a must for any fan of this kind of game. **81%**

## Italy 1990 (Super Sim Pack)

Most soccer pundits viewed this as the ultimate soccer game of all time, but does it cut it with the best of them now? Why, golly hatstands it certainly does, and what's more, for a game that's four years old, nothing has ever really come close to it. Hair-raising overhead/side view action which is made even more enjoyable by the excellent graphics and smooth scrolling. Not to be missed, and a bargain on this particular compilation. **89%**

Jack hasn't quite perfected his swing.



## Jack Nicklaus Golf (Accolade)

Easily the best golf sim around today, it offers great graphics and gameplay, and the in-game controls are a pleasure to use. Definitely one for the connoisseur. **89%**

## Janaghir Khan Squash (Gremlin)

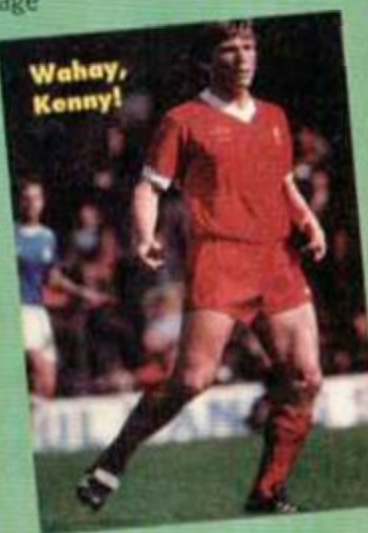
Slowish rendition of the closed court classic with average graphics, average sound and average gameplay. Average really. Yawn. **70%**

## Konny Dalglish Soccer Match (Impressions)

Oh, dear. Oh, dearie me. KDSM is a side-view affair where you get the chance to play as the red team

(Liverpool) or as the blue team (user definable).

Wahay, Kenny!



The game never impresses as the players on both sides are near identical colours (quite a feat when they play in different coloured shirts but





# Lympics

believe me it's true), and coupled with the awful Spectrum-style graphics, this one is to be missed at all costs. **33%**

## Kick Off (Anco)

An overhead soccer game that seemed to be the bees knees at the time, but fortunately, many better games have appeared since then. Still very fast, though, and one to pick up if you find it on a compilation. **78%**

## Kick Off 2 (Anco)

Anco decided to put all of the glitches in KO1's graphics right in *Kick Off 2*, and the improvement really shows. Incredibly fast overhead action improves to near-frantic in two-player mode. Definitely one of the better football sims around. **86%**



## Lineker Collection (Kixx)

This is a collection of four games, three being proper 'footie' games and the other being a pointless joystick-wagging, sit-up and press-up training session. Apart from that, the games are pretty good with *Lineker's Hot Shot* being the bargain of this overhead-view footie pack. **73%**

**Gary Lineker - proving that all top sportsmen are really, really dull.**

## Manchester United Europe (Krisalis)

'Ooh ah, Cantona, ooh ah, Cantona,' goes the chant for the non-Man Utd supporters among us, and it's definitely an, 'ooh ah' for Man Utd Europe with its excellent overhead graphics and slick gameplay. You get the chance to play in any of the competitions in Europe currently operating, and this adds a lot more variety to an already brilliant game. Shame about the treble, though. **73%**

**Triple failures - hah!**



## Lotus Esprit Turbo

(Gremlin)

Excellent action in one-player mode, but the game comes into its own with the amazing split-screen two-player option. Battle it out with a mate or an imaginary friend in the ultimate competitive racing game on the CPC at the moment. Amazing stuff. **93%**



## Mega Sports (Kixx)

This compilation consists of *Summer Games*, *Summer Games 2*, *The Games - Summer Edition*, *The Games - Winter Edition* and *Winter Games*. All of these contain accurate renditions of all the events in the summer and winter Olympics. On the whole the games are quite good but prepare for more than one or two horrors among them. For sheer quantity, you can't fault this. **63%**



## Mountain Bike 500

(CodeMasters)

*Mountain Bike 500* aims to cash in on the craze of

the 90s and fails spectacularly. One-colour, Spectrum-style graphics and a horrendous control method destines this game to holding up rickety tables everywhere. **43%**

## Passing Shot (Encore)

Whilst playing as well as *Pro Tennis* or *International 3D Tennis*, you tend to feel let down somewhat by the awful Spectrum graphics in this game. The gameplay doesn't suffer, though, and that's what really



## Medal winners

And now we come to awards time folks, and after a photo finish, here are the results...

### Gold Medal

*Italy 1990* - This one was no competition really. If you don't already have it, what are you playing at?

### Silver Medal

*International 3D Tennis* - You'll need time to get to grips with this one but persevere, we promise you, it's well worth the effort.

### Bronze Medal

*Jack Nicklaus Golf* - Brilliant, innovative, addictive. Get it, now.

counts. All the usual tennis stuff present, though, making this a novel all bad offering. **86%**

## Pro Tennis Tour (Ubi Soft)

Brilliant graphics make this one of the better tennis sims available. Perhaps not as playable as *International 3D Tennis*, but this one feels a whole lot more realistic to play. Good one for the would be Lendl and Beckers among you. **72%**

## Quattro Power (Codemasters)

Value-packed action once again as the Codies team up *Twin Turbo V8* (very good scrolling racer), *Pro Powerboat Sim* (good beat-the-clock-and-baddies racer), *ATV Sim* (reviewed elsewhere) and *Moto X* (good motorbike scroller - can anybody get past the first obstacle?) on yet another four-game pack. As with all the *Quattro* packs, value for money abounds. You won't be disappointed here. **81%**

## Quattro Racers (Codemasters)

Another super value pack featuring *BMX 2 Sim* (BMX obstacle racing), *Championship Jet Ski*

## Losers

Worst of the worst time now, so please no letters saying that these are the best sport games ever, okay...?

### Wooden Spoon

*Trevor Brooking WCG* - Footy management at its worst with nothing to distinguish this from a BASIC program. Dire.

### Cardboard Spoon

*Mountain Bike 500* - Absolutely hopeless gameplay and graphics make this award well deserved.

### Toilet Roll Spoon

*Kenny Dalglish SM* - Nothing at all worthy of discussion here. Bin it. Then burn it. Then stab it. Then eat it. Just never, ever play it. Ever.

(water circuit racing), *ATV Simulator* (dirt bike stunt racing) and *BMX Freestyle* (BMX racing again). All of these are quite playable, although none really shine. **67%**

### Quattro Skills (Codemasters)

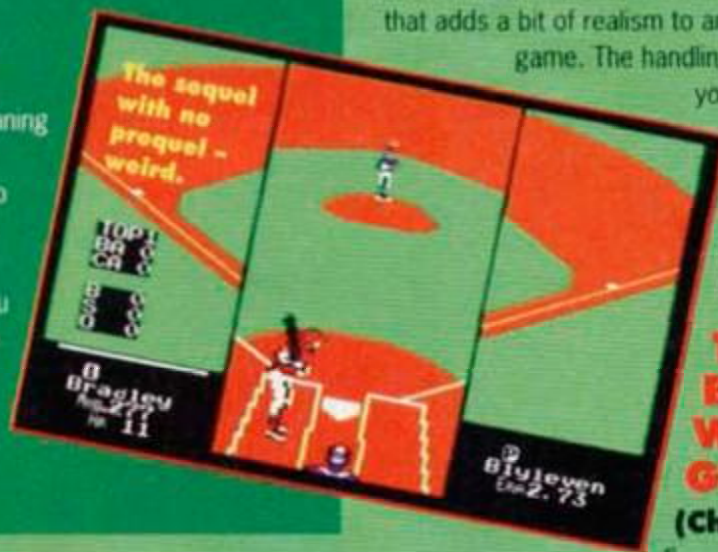
Yet another ingeniously-named pack of four games containing *Pro Skateboard Sim* (average ride around the course game with the exciting twist that you're on a skateboard), *International Rugby Sim* (quite good rendition of the sport, if not a bit hard to control), *11-A-Side Soccer Sim* (slow-moving overhead jobbie, with more rules than you can shake a stick at) and *Pro Tennis Sim* (easy to pick up, but unfortunately, even easier to put down). As usual, for the budget price, who cares about one bad game? **78%**

### Quattro Sports (Codemasters)

*Grand Prix Sim*, *Pro Ski Sim*, *Pro Snooker Sim* and *BMX Sim* are all included on this excellent value-for-money pack. None of the games are outstanding, but all warrant an average rating of 70 per cent. Give it a whirl. **70%**

### RBI 2 Baseball (Hit Squad)

A quite simply stunning baseball sim that strangely seems to be the sequel to a game that never existed. Even if you don't think you like baseball, or sports sims, check this one out. **90%**



### Rad Ramp Racer (Mastertronic)

Take control of either a skateboard or a BMX and use your chosen implement to hurtle over a series of jumps and ramps to try and secure points. The more showy the jump, the better the points. It also features a split-screen two-player mode that enhances the gameplay. Decent graphics and sound bring this game to a slightly-better-than-average-but-not-so-much-as-you'd-notice-unless-you-were-conducting-scientific-bench-tests rating. **58%**

### Skato Wars (Ubi Soft)

Ice hockey fans are well-catered for here in this futuristic sim. All the features of the real game (punching, fighting, blatant fouls) are present and the graphics are just as good. One to get. **80%**

### Stunt Car Racer (Microstyle)

A wild rollercoaster trip in a sand buggy around a nightmare stunt course. The innovative 3D graphics make this game shine out from the rest. Control is excellent and the races are well contested, while not being too hard to complete. There's a slight niggle with the

amount of time it takes the crane to get you back on course after you've fallen off, but it's a top game nonetheless and should be a part of the collection of any self-respecting speed freak among you. **96%**

### Supertrux Publisher (Elite)

'Breaker Breaker, one niner, there's a bear on your tail,' is one of the things that you might think better of saying out loud while playing this game. You take control of a juggernaut and you have to dodge, ram and outspeed all manner of obstacles and other computer cars in order to reach the end of the race. Detailed backdrops help the gameplay, and the control of the juggernaut is superb. One to look out for. **63%**

### Toyota Colica GT (Gremlin)

This game gives you an inside the cockpit view, with a decent 'hands-on-wheel' steering system that adds a bit of realism to an otherwise poor game. The handling is atrocious and you'll find yourselves, more often than not, taking a trip down the embankment. Don't bother. **79%**

### Trevor Brooking's World Cup Glory (Challenge)

Excruciating, extremely boring text-only (it sounds bad already, doesn't it?) management game with no redeeming features to mention. So I won't. A right load of old tat. Even text adventure fans rightly loathe it with vehemence. **40%**

Ah, who wants a World Cup anyway? We've already got one.

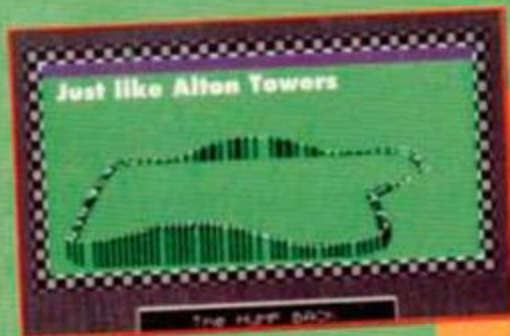


World Wildlife fund?



### WWF (Ocean)

Another fine conversion here with its massive sprites and ultra slick animation. Get to fight (or be) Hulk Hogan, British Bulldog or the Ultimate Warrior. A lot of moves are available, and it doesn't take long to master the more important ones. The game gets infinitely better in two-player mode with the action getting a bit too physical in places. **90%**



## 10 sports sims the world is waiting for...

- 1 *The Highland Games*
- 2 *Jack Charlton's Fly Fishing*
- 3 *Curling*
- 4 *The Graham Taylor Football Mis-Management Sim.*
- 5 *The Pro Coronation Street Dominoes Simulator* (from CodeMasters, natch)
- 6 *Synchronised swimming*
- 7 *Comeback - the Official Frank Bruno Boxing Sim* (in which all the opponents are overweight and incredibly easy to beat)
- 8 *The Take That Shooting Gallery*
- 9 *International Barebacked Camel Racing*
- 10 *Nigel Mansell's World Championship*

### World Class Leaderboard (Epyx)

Excellent gameplay makes up for the pretty poor graphics in this offering. The game is very easy to get into, and it also has a host of playing styles to test your expertise. Could do with more than just four courses, though. **76%**

### World Class Rugby (Audiogenic)

WCR is one heck of a playable game. All the rules of the oddly-shaped balls club are included, and the playing speed of the game can only be likened to *Kick Off 2* on acid. Some may find the rules and whatnot a bit daunting, but if you persevere with it, a whole lot of fun will entail. **87%**



### Wacky Darts (Codemasters)

Like all computer dart games, this one features a floating hand that is always on the move across the board. Your job is to stop the hand in the right place so that it throws the dart where you want it to go (treble 20 usually until you get to the doubles). This game varies on *Jocky Wilson* in that it has various funny comic interludes. Good value because it's available on the *Quattro Fantastic* pack. **85%**



## CHUCKIE EGG 2



Bold, bright,  
jazzy and  
daring...

But nowhere  
near as good  
as the first.

Always glad to be of service, your beloved AA once again helps out a gamer in distress. Arthur Scott of Ince in Wigan wrote in with a heart-rending plea for any pokes for that age-old platformer, *Chuckie Egg 2*. He goes on to suggest that this is perhaps one game that has beaten the poking minds of AA over the years.

Well, fear no more, Arthur, you can now have as many lives as you want with this poke dedicated to you.

```
HAOB 100 'Chuckie Egg 2 Cheat
IABC 110 'Written By Lee Rouane
GAEM 120 'For Arthur Scott
IAPC 130 'Pick & Choose Version
AAMN 140 '
IACK 150 DATA 21,1F,BF,11,00,01,CD,11,BF,3E,FF
IAPJ 160 DATA 32,C2,67,CD,C0,85,06,0D,D5,CD,77
IAPQ 170 DATA BC,E1,CD,83,BC,CD,7A,BC,C9,43,40
IAAD 180 DATA 55,43,4B,49,45,20,45,47,47,20,32
IAED 190 DATA 20,43,48,55,43,4B,49,45,20,45,47
IAMB 200 DATA 47,20,32,20,20,4C,43,52,20,46,45
IAPA 210 DATA 42,20,39,34,29,20,20,39,34,29,20
CAPM 220 DATA LCR
EAFF 230 chk=0:x=8BF00
JAPE 240 READ a:IF a$="LCR" THEN 270 ELSE 250
GABD 250 a=VAL("&"a$):POKE x,a
HAJN 260 x=x+1:chk=chk+a:GOTO 240
HAJI 270 IF chk<>A1A5D THEN GOTO 350
FAPM 280 CALL ABCD2:MODE 1:CLS
DAEL 290 addr=8BF0A
KAIL 300 INPUT "Num Of Lives (MAX 255) ? ",liv
IACC 310 IF liv<0 OR liv>255 THEN 300
FAJC 320 num=HEX$(liv,2)
HAJA 330 POKE addr,VAL("&"num$)
DABA 340 CALL 8BF00
KAMN 350 PRINT "Data Error Old Bean...":END
```

## Multiface Poke

67C2,xx xx=Num Of Lives

## Marauder

Stepping up on the rostrum now is the lovely Chris Parker from Edgefield in Norfolk, with what he describes as a 'great cheat' for Hewson's *Marauder*.

Chris suggests that at the beginning of the

game you should go up to the flashing light and get as close to it as you can.

When the light is green, shoot it to reveal an extra life. Repeat this on each light and then kill yourself at the next baddie.

Repeat the whole sequence again for as many lives as you could possibly want.

# CHEAT

## MODE

**It's outlasted  
Bros. It's outlasted  
Sindair C5s. It's even  
outlasted Eldorado. Yes, it's  
been here since issue one  
and it shows no sign of  
bottling out yet - Cheat  
Mode the world's premier  
CPC tips and pokes service.  
Lee Rouane is your host.**

## OLLIE AND LISSA

All you Ollie & Lissa fans can now rejoice, thanks to David Cash from Larne in County Antrim. If you find that the levels in this game are just too hard, then follow David's advice by holding down the keys Z and SHIFT whilst playing the game, to skip a level.

David also informs us that if you find yourself missing an earlier level, then holding the keys X, C, U, B, N, U, < and SHIFT will enable you to decrease levels. Cheers for those David, keep 'em coming lad.

## LORDS OF CHAOS

We've got a real treat now for all those *Lords Of Chaos* fans out there, and judging by the massive amount of letters we receive every month about this game, there are hundreds and hundreds of you.

What better to tickle your fancy than an excellent, comprehensive wizard designer, courtesy of David Hood. Let's all give David a round of applause for the work that has gone into this little lot...

```
BBDD 5 'This wonderful Lords of Chaos Wizard
designer
OAML 6 'was written by David Hood (Disc versi
on)
BAIP 10 MODE 2
EALH 20 DIM spell$(46)
CAML 30 GOSUB 180
CAMO 40 GOSUB 1430
JANA 50 nana=44000:level=44001:ap=4402F
IACL 60 stan=44031:con=44032:com=44033
FAPP 70 defen=44034:nr=44035
BAPP 80 MODE 2
EACJ 90 PRINT "E--Edit"
EALN 100 PRINT "L---Load"
EACP 110 PRINT "S---Save"
CAAE 120 PRINT
FAJM 130 INPUT "Choose";a$
GAPC 140 IF a$="e" THEN GOTO 440
GAHD 150 IF a$="l" THEN GOTO 260
GAEE 160 IF a$="s" THEN GOTO 360
CAFX 170 GOTO 130
DANN 180 MEMORY 43FFF
FALG 190 DATA 21,00,00,0e,C1,16
GAFE 200 DATA 01,1e,00,df,0d,bf
FAJC 210 DATA c9,3c,c0,07,00
FAAH 220 FOR x=8BF00 TO 8BF10
GABP 230 READ a$:POKE x,VAL("&"a$)
BAPP 240 NEXT
CAHJ 250 RETURN
BAPP 260 'LOAD
BALJ 270 CLS
DAEC 280 GOSUB 1450
HAIG 290 INPUT "Number";track
FAPX 300 track=track+19
DANO 310 POKE 8BF0D,83C
FAJF 320 POKE 8BF06,track
```

Addictive fun  
and very,  
very green.



## UN SQUADRON

Here we go with an all-purpose playing guide for that graphically-stunning blast-em-up, UN Squadron. R (Rambo?, Raspberry?) Hotchkiss of Woodside in Telford reveals all...

## Level 1: rating - easy

Even beginners will find this level quite simple. Blast everything that moves. The tanks and small launchers only need cannon fire, but beware of attack from above, and helicopters – they blend into the scenery well. Use your special weapon on the launcher at the end. Shoot the missile turret and not the vehicle it's attached to. The main weapons are missiles and the homing rocket. Shoot the rocket and avoid the missiles.

## Level 2: rating - quite easy

As on the first level, shoot anything that moves, but beware of aircraft that come from behind you. Keep left and centre. The four green bombers before the stealth can be shot with homing missiles, but cannon fire does the job just as well. The stealth bomber, however, can't be shot with homing missiles, as the mission briefing tells you before you start. The missiles home in on the small decoys that the bomber trails behind. The trick is to start firing before it even appears. The last green bomber appears at the bottom, then you

know that the stealth bomber will be arriving at the top. So wait right at the top almost out of sight and keep your cannon blasting. The bomber will fly right into the stream of fire. Guide your cannon fire with the bomber and it will blow up. If it fires, take evasive action. The missiles can trap you in a scatter of decoys which also sap your energy.

## Level 3: rating - tricky

Keep low and keep firing. Watch out for mines if you're high up, as they're can't be destroyed. And watch out for the blue planes coming from behind – they fire loads of bullets and have no mercy. Use any special weapons, and when the second set of mines come on, the fortress isn't far away. Just pop up and start firing every last weapon you've got. The turrets aren't a big threat, but keep on nailing them with your special weapon until they blow. You can go right across and turn around – don't panic, though, as you just going in for another sweep. Two sweeps is usually enough. Hint: use your special weapon when two or more turrets have scrolled into view, then release the weapon in streams until it decides to destruct.

## Level 4: rating - very tricky

This level will make short work of you if you don't watch your tail. Enemies sneak up behind and their bullets flow like water. Use special weapons (bombs if possible) on the big choppers that drop in on the scene from the right. They take three or four bombs before they explode. They can be shot with continuous fire, but the bombs do the job faster. Watch out for small launchers and helicopters because they blend into the scenery. When the enemies stop coming, get to the top left and wait for the blue land launcher to appear, then go to work with the bombs. You'll see flashing red squares that indicate a hit – aim for these. The big gun is the most important, as when this blows up, the whole kit'n'boodle goes KABLOOEY.

## Level 5: rating - difficult

Don't go too low because the jagged rocks will make short work of you. Shoot everything and watch out for attacks from the rear. If possible buy the 16-way gun, it takes care of all rear attacks. The tall mountains can be shot and destroyed. The big planes that come up from the



DAAA 330·CALL·ABF00  
 BAFF 340·ld=1  
 CAJH 350·GOTO·80  
 CAPA 360·'SAVE'  
 ABHA 370·IF·ld=0·THEN·PRINT·"Nothing·loaded":  
 CALL·ABB10·GOTO·50·  
 JAKA 380·INPUT·"Are·you·sure(Y/N)";a\$  
 EAOP 390·IF·a\$(<"y"·THEN·80  
 DAAP 400·POKE·ABF06,83F  
 FAJF 410·POKE·ABF06,track  
 DAAA 420·CALL·ABF00  
 CAIH 430·GOTO·80  
 CAFA 440·'EDIT'  
 PAGO 450·IF·ld=0·THEN·PRINT·"Nothing·loaded":

CALL·ABB10·GOTO·50  
 BAMJ 460·CLS  
 DACN 470·CLEAR·INPUT  
 GAKO 480·PRINT·"C--·Character"  
 FABO 490·PRINT·"S--·Spells"  
 EACP 500·PRINT·"E--·Exit"  
 CADG 510·PRINT·  
 FAMB 520·INPUT·"Choose";a\$  
 GACA 530·IF·a\$="e"·THEN·GOTO·80  
 GAGD 540·IF·a\$="c"·THEN·GOTO·580  
 GAAR 550·IF·a\$="s"·THEN·GOTO·1050  
 CALK 560·GOTO·520  
 DAAR 570·'CHARACTER'  
 BAPJ 580·CLS  
 EAGO 590·PRINT·"1··Mana";  
 FAGH 600·PRINT·PEEK(mana)  
 FALF 610·PRINT·"2··Level";  
 FADP 620·PRINT·PEEK(level)  
 IABI 630·PRINT·"3··Action·points";  
 EAOK 640·PRINT·PEEK(ap)  
 GAGD 650·PRINT·"4··Stamina";  
 FAEJ 660·PRINT·PEEK(stan)  
 IAPH 670·PRINT·"5··Constitution";  
 FABC 680·PRINT·PEEK(con)  
 FAFM 690·PRINT·"6··Combat";

FAJB 700·PRINT·PEEK(con)  
 GADB 710·PRINT·"7··Defence";  
 FAON 720·PRINT·PEEK(defen)  
 XALG 730·PRINT·"8··Magical·resistance";  
 EANL 740·PRINT·PEEK(nr)  
 EAOM 750·PRINT·"9··Exit"  
 CAKE 760·PRINT  
 FAAL 770·INPUT·"Choose";b  
 JAPN 780·ON·b·GOSUB·810,840,870,900,930,960,990,1020  
 EAAF 790·IF·b=9·THEN·460  
 CAOK 800·GOTO·580  
 GANC 810·INPUT·"Mana·(1-250)";a

## Are you befuddled by listings?

L

Don't panic if you're new to listings. There's a full explanation of how to type in the darned things and what the four-letter codes at the beginning of each line mean in the Type-Ins section which starts on page 28.

## The Manic multipoke mania zone

Relatively few Multiface Pokes this month, but don't worry because they'll be bouncing back with a vengeance next issue. Peter Curgenven is our lone piker this month. If you want to impress the nation with your poking prowess,

send your game-busting slices of code to Cheat Mode, Amstrad Action, Future Publishing, 30 Monmouth Street, Bath, BA1 2BW. It could be the start of something big (but then again, maybe not).

| Game               | Format | Poke, Address | Effect            | Game                 | Format | Poke, Address | Effect          |
|--------------------|--------|---------------|-------------------|----------------------|--------|---------------|-----------------|
| Everyone's A Wally | Tape   | 81E1,A7       | Infinite lives    | 3DC                  | Tape   | 290E,00       | Infinite oxygen |
| Xarq               | Disc   | 2BE4,C9       | Infinite weapons  | Dragons              | Tape   | 6465,00       | Infinite lives  |
| Aftermath          | Tape   | 8AB2,FF       | Infinite ammo     | Haunted Hedges       | Tape   | 8727,00       | Removes ghosts  |
| Xcel               | Tape   | 33A4,00       | Infinite shuttles | Subterranean Stryker | Tape   | 7D36,30       | Infinite lives  |
|                    |        | 4C2A,00       | Stops timer       | Captain America      | Tape   | 9D2D,30       | Stops clock     |

bottom of the screen are tricky because they fly low and attacking them from behind is risky. The 16-way gun is useful here, either that or Greg Bates and his faithful A-10. The big helicopter-like bomber is easy to destroy providing you steer clear of its bullets. Ignore the bit in the briefing about the fighter it's carrying – it never appears.

### Level 6: rating – extremely difficult

Rear attacks, vertical attacks and attacks from above are common. When the blue planes come from the bottom by the rocks, drop a couple of bombs and fire your cannons at 'em. The launchers are the most deadly in this level as they fire when you come past the rocks leaving you limited room to dodge. When the main cave splits into three take the top or bottom route. If you choose the middle, watch out for rear attacks. Keep firing and destroying until the caves form into one again. Two missile grids need bombing, then it's on to the launcher (as in level four).

### Level 7: rating – difficult

If possible buy homing missiles and a shield. Use the homing weapons on the ground targets and shoot everything on screen. When the B-52's flock in use homing missiles. Watch out for blue planes. After the streams of B-52s, the big bomber arrives. If you choose to use the homing

missile then get right behind it, as it's equipped with a missile jammer which cause your homers to fly right across the screen otherwise. The two Mirage fighters escorting the bomber aren't a major threat as they have no weapons.

### Level 8: rating – difficult

The three boats fire missiles and when you're already surrounded by blue fighters it's almost impossible to get out without losing energy. After constant attack from the air a big surprise is waiting. Drop six bombs on it and watch it blow. The battleship, however, needs more attention. Bomb the guns and everything that flashes red. After the first two guns keep the cannon on the ship to blow it up.

### Level 9: rating – hard

If you have enough money, buy Big Boys. The things on the rails need four Big Boy bombs before they destruct. If you don't kill them quickly they'll fire deadly missiles. When the mines appear, keep low but not too low. Shoot the launchers and bomb the train launcher. The big gun at the end is a problem but if you leave your plane between the missiles' firing line you'll be able to shoot undisturbed until the whole thing blows up.

### Level 10: rating – difficultish

Time to do battle with the flying fortress. First, shoot the top-most engine then the scroll will take you up and right along the back of the aircraft. Two huge guns fire at you but your special weapon will be enough to destroy them. Further right small launchers fire at you; they take some destroying. At the front of the fortress more guns and launchers are hidden in some tight places so use your cannon on these. Beneath the plane flying left, a small and a large gun fire at you. The smaller one is difficult to hit but the larger one destructs when the special weapon is fired.

When you're coming underneath the plane on your way back to where you started, fly to your left otherwise you'll be crushed. Finally, blow up the remaining launchers and engines, and then the last battle is against the centre circle thingie that fires at you with missiles. This is not a problem if you have a special weapon left, in which case you return home the conquering hero.



EADD 820·POKE·mana,a  
CALJ 830·RETURN  
GAGE 840·INPUT·"Level·(1-3)";a  
EABL 850·POKE·level,a  
CAOJ 860·RETURN  
IAXC 870·INPUT·"Action·points";a  
DANG 880·POKE·ap,a  
CABK 890·RETURN  
GAGB 900·INPUT·"Stanina";a  
EALC 910·POKE·stan,a  
CALJ 920·RETURN  
IAPF 930·INPUT·"Constitution";a  
DAJN 940·POKE·con,a  
CAOJ 950·RETURN  
FAFK 960·INPUT·"Combat";a  
DALN 970·POKE·con,a  
CABK 980·RETURN  
FAMP 990·INPUT·"Defence";a  
EAPL 1000·POKE·defen,a  
CACM 1010·RETURN  
KACH 1020·INPUT·"Magical·resistance";a  
DAPJ 1030·POKE·nr,a  
CAFV 1040·RETURN  
CAAO 1050·SPELLS  
BAJM 1060·CLS  
CAPH 1070·n=84002  
BAIL 1080·a=1  
DABF 1090·LOCATE·1,2

FAPB 1100·PRINT·"E...Exit"  
DAJE 1110·LOCATE·1,1  
GAFP 1120·PRINT·"....."  
DALE 1130·LOCATE·1,1  
FAEM 1140·PRINT·spell1(a);  
DAMG 1150·d=PEEK(n)  
FANC 1160·IF·d=888·THEN·x=8  
FAIC 1170·IF·d=877·THEN·x=7  
FAGC 1180·IF·d=866·THEN·x=6  
FAEC 1190·IF·d=855·THEN·x=5  
FAJB 1200·IF·d=844·THEN·x=4  
FAHB 1210·IF·d=833·THEN·x=3  
FAFB 1220·IF·d=822·THEN·x=2  
FADB 1230·IF·d=811·THEN·x=1  
EABO 1240·IF·d=80·THEN·x=0  
DANA 1250·PRINT·x  
MAMN 1260·IF·INKEY(0)=0·AND·a>1·THEN·a=a-1:n=n-1:GOTO·1110  
NABB 1270·IF·INKEY(2)=0·AND·a<45·THEN·a=a+1:n=n+1:GOTO·1110  
MAMN 1280·IF·INKEY(8)=0·AND·d>1·THEN·d=d-17:P  
OKE·n,d:GOTO·1110  
OAHB 1290·IF·INKEY(1)=0·AND·d<888·THEN·d=d+17  
:POKE·n,d:GOTO·1110  
GAHE 1300·IF·INKEY(58)=0·THEN·460  
DAHA 1310·GOTO·1260  
NACC 1320·DATA·GOLD·DRAGON, GREEN·DRAGON, RED·D

RAGON,PIXIE  
NAMF 1330·DATA·DWARF,GOBLIN,TROLL,GIANT,CENTA  
UR,UNICORN  
NAAN 1340·DATA·PEGASAS,GRYPHON,ELEPHANT,CORIL  
LA,LION,BEAR  
OAFH 1350·DATA·CROCODILE,GIANT·BAT,HARPY,GIAN  
T·SPIDER,ZOMBIE  
OAOE 1360·DATA·GHOST,VAMPIRE,SPECTRE,DEMON,ST  
RENGTH·POTION  
ABNC 1370·DATA·POTECTION·POTION,INVISIBILITY·  
POTION,SPEED·POTION  
NAJL 1380·DATA·FLYING·POTION,SUPER·POTION,HEA  
LING·POTION  
MAEN 1390·DATA·MAGIC·FLAME,GOOEY·BLOB,TANGLE·  
VINE,FLOOD  
MAPC 1400·DATA·ENCHANT,SUBVERSION,CURSE,MAGIC  
·ATTACK  
OAOE 1410·DATA·MAGIC·BOLT,MAGIC·LIGHTNING,TEL  
EPORT,MAGIC·EYE  
FALF 1420·DATA·MAGIC·SHIELD  
MADC 1430·FOR·n=1·TO·45:READ·spell1(n):NEXT·R  
ETURN  
EAFM 1440·Directory  
DBAH 1450·PRINT·"Please·insert·disc·in·drive·  
and·press·any·key!"  
DAKD 1460·CALL·ABB18  
DAGD 1470·CALL·ABF00  
CAJI 1480·k=80033  
EAGB 1490·FOR·n=1·TO·20  
DAMD 1500·PRINT·n;  
EAKB 1510·FOR·x=1·TO·12  
DAHG 1520·a=PEEK(k)  
EAEI 1530·PRINT·CHR1(a);  
CAJF 1540·k=k+1  
CANC 1550·NEXT  
CANN 1560·PRINT·"  
CANC 1570·NEXT  
EADA 1580·POKE·ABF02,840  
CAPM 1590·RETURN

## Poking the multiface way

- 1 Make sure you've got a Multiface plugged into the back of your CPC – it helps.
- 2 Load the game as normal.
- 3 Press the RED button on the Multiface.
- 4 Press 'T' for tool.
- 5 Press '\*' to select the code.
- 6 Press 'H' for hexadecimal input.

- 7 Press SPACE for input.
- 8 Type in the address (ie. 3A7C).
- 9 Type in the POKE (ie. A7).
- 10 Press RETURN.
- 11 If there's more than one poke go back to seven.
- 12 Press ESC to get back to the menu.
- 13 Press R to return to the game.

# READER ADVERTS

**Bargains galore and much, much more in the CPC second-hand superstore. Or, in other words, here are the small ads...**

## For sale

**Home-grown machine code games** from strategy to shoot-em-ups. Good graphics and playability. £2.99 plus disc or £4.99. For information send SAE to Kevin Heywood, 18 Sinclair Avenue, Banbury, Oxon OX16 7DW

**Amstrad CPC464 computer**, green screen monitor, joystick, users manual and games. vgc £50 Tel: 0353 861728 (Ely)

**Amstrad CPC 6128** colour monitor, disk drive, manual, many games including Street Fighter, Nigel Mansell GP, Joystick, home accounts, clip art, system disks and mags. £100. Tel: 0332 345017.

**Amstrad CPC464** with colour monitor, DD1 disk drive, mouse, multiface disk and tape software/games. Good condition and with all manuals £150 ono. Alan, 061 797 8402.

**Amstrad CPC6128** with manual, over 70 games, 40 utility programs and 20 other programs. All games boxed and in mint condition, over 30 mags \$450 ono. Tel: 0748 834295.

**Amstrad 6128**, disk drive, colour monitor, joystick, games and Star LC2410 printer. All vgc and just £200! Call Colin or Joyce - 0621 859706 (Exsed).

**Amstrad CPC464**, colour monitor, joystick, approx 10 games and games rack, 4 AA's with tapes, manual, £150. Tel: 0384 891833 (Sat & Sun only between 4-7pm)

**16 Classic games** for sale including Wizball, Wonderboy, Flendish Freddy. Only £25 inc P+P (UK only). Caroline - 0222 628208.

**Amstrad 464** with monitor, disk drive and over £200 of software for just £150! will consider splitting. Tel: 0243 543292.

**Amstrad 6128+**, tape upgrade, colour monitor, 60 games on tape/disk, Supercall, Protex, Procopy, Locksmith, joystick and more £200! Second DD 3.5 dual just £50! Wolfgang - 0652 653631.

**464 with 6128 chip**, disk drive, multiface, 64k RAM, OCP Studio, Music Machine, 200 games, AA mags 61-98, Insider, mouse, books. Basically £1000 worth of 6128 for just £320! Chris Beach - 0789 470686.

**Nine Sega Game Gear** games inc Super Off-Road, Holey Wars, Golf, all boxed, vgc and with instructions just £12 each ono. Tel: 061 969 1847 after 4pm.

**Amstrad DMP2160** printer (inc manual) with broken head! Also DMP 200, 4 unused ribbons, AA complete cheat collection book, Mastertronic Master Chess tape and some games. Phone Gerald on 0762 331054.

**CPC6128**, colour monitor, tape deck, joystick, lightpen, over 30 AA's plus tapes, many original games and three programming books, £280 the lot! Tel: 0354 740882 after 6pm.

**Amstrad CPC464**, 64k, over 200 games including Hudson Hawk, T2 and Predator. Worth about £450 will accept £321! Dean - 0543 418494.

**Joystick Cheetah Bug**, boxed and unused £8. Multiface boxed, manual, just 2 months old, bargain at £20. Amstrad TV Tuner will convert colour monitor into TV £18 P+P £2. Tel: 0376 519360.

**CPC6128**, colour, extra disk drive, Rombox with Rodos, RS232, joystick, Soft 968, games, mags, books, utilities and spare disks. £350 Ring 0296 630250 for details. Also a DMP2000 which has a broken leg but still works....

**Amstrad boxed, green monitor** GT65, around 20 3" disk games worth about £60, but £30 for a quick sale!!! Guildford area. Tel: 0483 233392 after 5.30pm.

**Multiface II** £15. Supercaudron disk £10, large selection of other goodies, games on tape and disk, stuff, AA mags, unused Write to David Platt, 54 Fore St, Buckfastleigh, S Devon. (Sorely not..... Nah!)

**CPC6128 colour**, CPC464 mono, DMP2000 printer, MP1 modulator, Prom Programmer, Rom Board, cassette cable, Soft158 Firmware Specification, Soft157 Basic Specification, Mini Office, DevPac, books. Offers invited on any item. Tel: 0734 734143 (Wokingham).

**CPC hardware/software** for sale. RS232, Firmware guides, ROM's, books, system disks, serious software and games. Send SAE to J Carter, 4 California Gardens, Little America, Plymouth PL3 6SZ

**CPC464**, colour monitor, Multiface II, RomBoard, with Protex and Maxim 1.5, Stereo amplifier with speakers, joystick, approx 100 tapes, 195 mags, books including Soft 968. No splits! Offers! Steve - 0367 244517.

**Advanced programming book** on the 464 £5. Also list of games available from Dee Singer, 57 Kent Rd, Parkfields, Wolverhampton, WV2 2BB.

**Amstrad CPC664**, colour monitor, Rom-Board, unfitted 6128 ROM, Maxam on ROM, Firmware manual, Masterfile, Microscript, various games and books, £130B. Tel: 0704 565828 (southport).

**Amstrad CPC464** - 116 games, many AA mags £95. Tel: 0525 861115.

**I will sell Batman**, Ghostbusters, Double Dragon, The Real Ghostbusters, Quattro adventure and Joe Blade II (no cover) for just £1 each (all CPC464) Or I will swap any 2 for Moonwalker, or any 3 for Thunderbirds (must be in good condition). Tel: 0723 863815.

**Many games**, discs and cassettes, some magazines. Send wants list or SSAE for full list. Reasonable prices for varied titles. SR Laurie, 29 Prior's Hardwick Road, Upper Boddington, Northants, NN11 6DW.

**Multiface Two**, £25 plus P&P. AMX Mouse and Stop Press £40 plus P&P. The Insider £5 plus P&P. 30 3-inch discs £30 plus P&P. Light Gun plus 10 games £25 plus P&P. Tel: 0302 864730.

**Star LC24-10** 24-pin printer in perfect boxed condition. £100 plus P&P. Tel: 0302 864730.

## OTHER

**Contacts wanted**. Any age, sex or country to exchange tips and games on the 464. Cassette only. Contact David Dodds, 49 Hasselden Road, Blackheath, London SE3 8HR. All replies answered.

**Software wanted** for new PD library. It can be anything from adventure games to shoot'em-ups. Send to s Saunders, 138 Woodbridge Road, Ipswich, IP4 2NS. Can be tape or disc. **Amazine**: a new amstrad fanzine. Reviewed AA99. Only £1. Issues 1 and 2 available now. Phone Jonathan on 0663 744863 for details.

**3D adventure** with Alfa 117, a new dimension for £7.95 inclusive or £3.95 plus a 3-inch disc supplied by you. Cheques to Paul Williams, 8 Heather Close, Worcester WR5 3LX.

**New Dimensions** - fanzine of science fiction dedicated to SF on TV and satellite. For second issue send 60p and stamped addressed envelope to 15 Hensley Drive, Wrexham, Clwyd LL13 9QH.

**Please send PD** on tape/disc for tape PD/disk PD respectively to Lower Dextbee, Dextbee, Highbury, Devon, EX22 7LA. For disk PD's newdisc send a disc and an SAE to the same address.

**Want to buy a new computer**, over 18? Then we'll pay you for your thoughts. Want to know more? Send for a free brochure. No obligation. KA, 16 New Watling Street, Leadgate, Consett, Co Durham.

**Impro graphics** (not PD). Allows you to improve the graphics of your Amstrad and remove borders. Send £1.50 and disc/tape to: A Payne, 89 Wolverhampton Road, Codsall, Wolverhampton, WV8 9L.

## USER GROUPS

**WACCI**, the UK's most popular CPC club. To find out what it has to offer send a 29p stamp to: WACCI, 7 Brunswick Green, Hawarden, Deeside, Clwyd CH5 3JA.

**New! Another World**, a new disczine covering serious and PD. Free PD. Send £1.30 plus disc plus SAE to 35 Marlborough View, Cove, Farnborough, Hants GU14 9YA. Make cheques/POs payable to R Avery.

**Wanted**, PD/Homebrew/shareware software for review in Another World. Also wanted fanzines for review. Send programs/fanzines to reviews to Another World, 35 Marlborough View, Cove, Farnborough, Hants. GU14 9YA.

## SERVICES

**Clip Art**. Lots of original designs to add professionalism to your work. Send blank formatted disc and SAE plus 50p to 10 Meadows Road, Chesdale Hale, Chesdale, Cheshire SK8 6EJ.

**Colour Map of Auf Wiedersehen Monty**. Just send two 25p stamps or send SAE for list of original tape games for sale to Angela Alum, 22 Port Royal, Bracknell RG12 7HH.

**CPC Trekking**. New fanzine offers reviews, letters and coverdisc. Cheques to: SA Sandhu, include 3-inch disc for coverdisc. Only £1.50. Great games on coverdisc. Orders to 17 Cromer Road, London SW17 9JN.

**An A-Z of games** and graphics for sale. Programmed listings and some from 1986 to 1994. E, CWTA and Amstrad Action. Send SAE to Chris for list, 188 Colchester Road, Leyton, London E10. 081 556 6919.

**15p per disc per side**. That's right. Power PD now charge only 15p per side. Order a catalogue now! Send SAE to Richard Wild, 33 East Lane, Sandway, Norwich CW5 2QQ.

## WANTED

**Wanted urgently**: AA 87. I'll give issue 99 for it (cover tapes for both). Phone Alastair on 08284 483 after 5pm please.

**Matthew Gullam of Presto PD** to kindly return my order placed with him last October. I would have appreciated an answer to at least one of my letters. Steve 081 669 7792.

**Wanted, Horsein Around** - stables edition, Millionaire and Fruity Frank. Cassette only. Willing to pay £10 for each. Please write to Andy Hudson, 5 Trocadero Court, Normanston Road, Derby DE1 2GR.

**Heroquest and Football Manager One**. Will swap for Midnight Resistance, Turbo Tortoise or Afterburner. All cassette. Wanted for CPC464. Write to Lee Cleary, 20 Acacia Avenue, Maltby Nr Rotherham, South Yorks S66 8DS.

## ORDER

SEND TO: SMALL ADS, AMSTRAD ACTION, 30 MONMOUTH STREET, BATH, AVON BA1 2BW

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Write your advertisement here, one word per box. Include your name and phone number if you want them printed.

# Reaction

Dear  
**AA**

## Sticky problem

Hiya guys, remember me? Look no breasts this time. Anyway the reason for my scribbling - why, oh why does the most brilliant mag around persist in sellotaping its covertape to the outside of the mag?

Why not slip in a blank page inside to stick the covertape on to? Or even half a page on the outside. It totally ruins the mag having to cut the tape away and so leaving unsightly pieces of tape behind.  
*John Jones, Northumberland.*

**PS** Any witty remarks, Dave, and I'm ready and waiting for ya!

Yes, it is a pain trying to get the tape off the cover without either ripping the paper or leaving bits of tape behind. But it's the price we pay for having covertapes, unfortunately. We can't really hide the cassette away inside the mag, because we want people to be able to see it on the shelves at their newsagents.

Besides, if it was hidden away inside it'd cause a bulge that'd crease the pages when the mags were packed together for transport or display on shelves. Besides, 'insidetapes' isn't a very catchy name. And I'm really not sure about a blank half-page on the outside - wouldn't that be just as unsightly as a couple of bits of tape? Anyway, how'd you like the new cassette boxes? Smart, eh? **Dave**

Breasts or not? It's up to you to decide.



I'll leave you to draw your own conclusions, though hopefully not more pictures like this.

Send your letters to: Reaction, Amstrad Action, Future Publishing, 30 Monmouth Street, Bath BA1 2BW

Dear  
**AA**

## To whom it may concern

I was recently given a second-hand CPC464 with lots of games. I found it excellent to use but as I'm not very experienced with computers I've got a few problems for you.

- 1 I can't load 4 Quattro Sports by CodeMasters. I can get it to run but the computer always responds with MEMORY FULL. How can I open up some extra memory space?
- 2 On Yogi Bear I can't jump far enough to cross the streams. How do I do this?
- 3 Can you use Sega Master System 2 joypads on the CPC?
- 4 One of my favourite games is Chuckie Egg but I get bored doing the earlier levels. How can I skip the first few?

5 What's the best soccer game I can easily get hold of?

6 Should question one be directed at Techy Forum?

*Anthony Saunders, Cambridgeshire.*

**PS** What football team does Simon support?

- 1 See answer six.
- 2 See answer six.
- 3 You surely can (we tested this one ourselves in the office).
- 4 See answer six.
- 5 Check out our sports sim round-up.
- 6 Yes, and questions two and four should have gone to Cheat Mode, really. Don't worry, I'll pass them on. And from next issue we'll be introducing a new section to Cheat Mode specifically to deal with individual queries like this which'll be called... er... we're not sure what yet. We would start up a similar section in Technical Forum, but that's what Techy Forum is anyway.

Welcome to AA, by the way. **Dave**

**PS** Leicester City, the poor sap.

## Letter from the colony

Dear  
**AA**

1 Corker mag, but how about a wargame on the covertape soon?

2 I think maybe a discography of major software houses is in order.

3 Loopy Lou's a fine Sheila (yup - he's definitely from New Zealand - Dave), let's have her on the cover, eh? She inspires any man to poetry.

4 Some great servers of the CPC are GDPD, The Vault, Wizard Games and Romantic Robot.

## Wot, no questions?

Why is it that whenever people write in to you they just write a list of questions? Can no-one out there write in continuous prose? Are you all illiterate, uneducated buffoons that don't know the meaning of the word paragraph?

I am a member of an insubordinate organisation called The Brotherhood of the Eternal Whisper. Never heard of us? Well you have now. We are an underground resistance movement fighting against repression, suppression, dictatorship, capitalist scum, so-called democracy and other such stuff. We defend the weak, support the poor, give courage to the downtrodden and uphold the true American way. So

It's just a pity Clur's wandered off to bring up a family.



you can imagine our disgust when the news came through to our headquarters (a bin in the boys' toilets at Dalriada School, Ballymoney) about Street Fighter 2. We have therefore decided to add this to our cause and are willing to lend our support to any local group.

We are at present only a small group but our support is growing daily and with your support and media coverage we can realise our goal and seize power in 1996. *Dwylan Daverous (the official letter writer), Ballymoney.*

**PS** Power to the people, power to the nation, power to the human race, power to the CPC.

**PPS** Thank you.

**PPPS** We all think you're great.

**PPPPS** Our leader thinks Clur is the most beautiful thing he's ever seen.

**PPPPPS** I worry about his health.

This could be the start of something big, but somehow I doubt it. **Dave**

Dear  
**AA**

## SHORT SHARP SHOCKS

How about doing a list of all the rubbish games? It'd be better than doing all the good ones?

Christopher Hill, Colchester.

That's an idea I like, but perhaps not a list of all the rubbish games – that'd take up a whole issue. The Top 50 all-time turkeys sounds good. Write in and let us know what you reckon are the games that deserve a thorough vilification. **Dave**

Is the cut-down version of DES on disc any good?

Christopher Hill, Colchester.

Yes – about as good as you'll get on a disc version anyway. **Dave**

Could you please continue the Trump cards and Separated At Birth in the Power-Up section?

James Moyle, Devon.

Yes and no. They're back this issue but not in Power-Up. Check out the new look Next Month page. **Dave**

I would be very interested in a garden planner either on your covertape or to buy if anyone knows of one which will operate on the CPC6128.

Word Processor Fentiman, Birmingham.

Blank faces in the AA office, I'm afraid, so this is one that we'll have to throw out to you lot. Can anyone help WP? **Dave**

My friend wants to know where Simon gets his hair done.

Stephen Fraser, Dunfermilne.

Your friend, eh? Oh well, tell your 'friend' that Simon won't trust anyone else to attack his locks with sharp implements, so the big jessie does the job himself. **Dave** (They're natural curls, anyway – Simon.)

Has anybody produced a hard drive yet? Nautilus Greaves, Hants

Surprisingly, yes, but not Campursoft or Quantum, both of whom at one time had hard drives in development. The only CPC hard drive that was ever actually commercially available was produced in Germany and cost around £140 but only had the measly storage capacity of 16MB, I believe. If anyone else has anymore details about this hard drive, or has the drive itself, we'd love to hear from you. Failing that, who wants to write a hardware project so that you can use a PC hard drive? **Dave**

5 If any New Zealand CPCers want some great PD send an SAE to the address at the end of this letter. No copy charge.

6 Long live the CPC and may the psychopathic fans of Metallica perish in a storm of jam tarts and ZX81s.

Daniel, 32 Killarney Avenue, Torbay, Auckland 10, New Zealand.

PS This was letter written at Heathrow – groovy, eh?

1 Hopefully the rather splendid *North and South* will be appearing on a covertape soon. Will that do for you?

2 Hmm, not sure about that one.

3 Loopy's a star, there's no doubt about that.

4 Let's all solemnly raise our glasses to these stalwart suppliers.

5 You heard the man.

6 Ah, but what about the non-psychopathic fans of Metallica? They're the one's you really need to watch out for. **Dave**

PS No.

Dear  
**AA**

So the Parrot listing was ripped off? You'd better be off home then, lads. Funny that the guy who spotted it came from Peckham...



### Not our type

I really do think it's time to put a stop to people sending in type-ins as their own work and expecting some financial reward. If a type-in is genuinely a reader's own and original work, that's okay. But if it's a repeat program – albeit slightly altered – then it

should not be claimed his own work and he definitely should not get anything financially, only a kick up the back side. I refer to Parrot on page 33 of issue 102, sent in by Ray Collins. Perhaps Mr Collins hopes that no other Amstrad user has the book

*Sensational Games For The Amstrad* by Jim Gregory, published by Granada in 1984, a selection of 24 exciting games plus other listings. Lo and behold, if you turn to page 125 there you will find listing number 18 – you've guessed it – Parrot. I have been suspicious of many past listings, but this one really got to me, I felt I just had to write in. **Frank Briggs, Peckham.**

We don't actually give away any prizes for any listings that are printed anymore, Frank, but in theory I agree with you wholeheartedly. When we did pay out money, sending in somebody else's work was tantamount to software piracy. Now it's just plain dishonest. Unfortunately neither Simon or myself have encyclopedic knowledge of programs on the CPC so some type-ins do get past. Sorry about that. But the type-ins section has now changed in emphasis slightly anyway, and Simon chooses the type-ins which are printed for their programming expertise or some well-written routines they use, as opposed to the quality of the end product. That's what the purpose of the workshop box-outs is (okay, I know there aren't any this month owing to lack of space but they'll be back). So Type-Ins is now a forum in which programmers can show off their talents. And what's the point in showing off somebody else's? **Dave**

### We love WACCI (honest)

Further to your comments regarding WACCI on page 9 of issue 101, I would like to comment as follows:

I have only been a computer user (Amstrad 6128) for the last

Dear  
**AA**

## SIMON AND CLUR ARE THICK!

Dear  
**AA**

With regard to the problem you were having with the loader for Graph Master (AA102), if Simon and Clur really wish to know what is wrong, may I suggest that line 270 is altered to `LOWERS(INKEYS)`, line 290 is deleted and line 310 is amended to `f$="IGM"+x$`.

GM1, GM2, etc, do not understand the hexadecimal for !, ", #, \$, %, etc. *Deflated Spacecraft Anthes, Dorset.*

I refer to the 464 Owners Beware comment relating to the problem associated with the working of the MENU program on tape 36.

I am unable to explain it, but I found that by altering each of the titles GM1,

GM2, GM3, etc to G1, G2, G3, etc and also amending line 310 of the MENU program itself so that "GM"+ became "G"+ and then resaving, the problem disappeared.

It would appear that for some completely inexplicable reason created by the MENU program itself the 464 alters the titles GM1, GM2, etc to read GMG and cannot therefore find what it is searching for. The problem must result from the program itself, because on running the BASIC lines:

```
10 f$="GM1" (or GM2, or GM3, etc)
20 run f$
```

the associated miniprogram loads and runs quite correctly as you will no doubt have found. A weirdo.

*Amplified Mandarins Drake, Newcastle Upon Tyne*



## READERS' TOP 10

- 1 Elite
- 2 Prehistorik 2
- 3 Super Cauldron
- 4 Titus The Fox
- 5 Lemmings
- 6 Rick Dangerous 2
- 7 Purple Saturn Day
- 8 Smash TV
- 9 Emlyn Hughes International Soccer
- 10 Italy 1990

Napoleon Bonaparte, Billingham, Sussex.

Right, from now on, if you just give us your initials, or, even worse, you don't give us your name at all, we'll make one up. You have been warned. Great Top 10, by the way, Boney. **Dave**

couple of years so I am still a beginner. At a friend's recommendation I joined WACCI. They have been a tower of strength to me particularly Clive Bellaby who has helped me on numerous occasions; he came to my house and repaired my keyboard, he answers all my telephone queries with the utmost patience and whenever I have needed anything new, he has either obtained it for me at a reasonable price or told me where to obtain it. WACCI has saved me a lot of time and money. This group has kept me interested in learning and encouraged me to keep trying. So I think your comments are most unfair.

Apart from that one little moan, Keep up the good work.

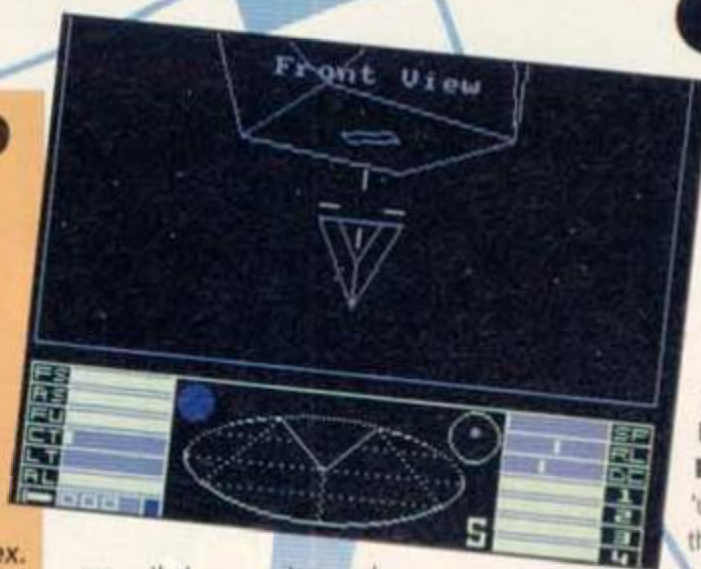
Angry Reptile Hardwick, Walsall

Let's get this straight - AA thoroughly, wholeheartedly and unreservedly recommends WACCI to anyone who is seriously into the serious side of their Amstrad. It is a great user

Yes Simon and Clur are thick. Well, it's not their fault. Owing to a bug in Locomotive BASIC 1.0 (only used on the 464) you can't use RUN F5 directly. So change it into uppercase or use any other function on it, eg, RUN UPPERS. Problem solved.

David Long, Demon PD

Last month I was skint so I borrowed the AA covertape. I was amazed to find that the menu wasn't protected, as usually the menus are. When my mate Frank told me that the menu didn't work I had to find out why, but for the life of me I couldn't figure out why. I have just one thing to ask - why do you protect the menu



group that serves its members superbly, and we have never disputed this fact. AA and WACCI get along fine (hi, Clive). Occasionally, though, they take little swipes at us and we take little swipes at them, but as I said last issue, we never took these things seriously. So sorry for any offence caused, but surely there's some room for some friendly rivalry? Can we drop this now, please. **Dave**



## Have you seen this disc?

I have an old AA covertape (from around about issue 19) with Type-Ins and a Sugarman loading screen on one side and a Tasword-compatible spellchecker on the other side. Can you please tell me under what filename it runs and how you use it with Tasword?

Julian Grumbridge, Birmingham.

**PS** may I add that I have been an avid reader of your magazine since issue 16 and it has never been better than it is today.

**PPS** Also I have been trying to get hold of Prince of Persia on disc for ages - I have tried both mail order and other retail outlets but have been unsuccessful. Can you help me with this too?

One day we'll manage to create covertape that works completely on every model of CPC. One day.

system anyway?  
Adam Cartwright,  
Lincolnshire.

**PS** Don't say a word about farmers.

The reason the menu didn't work for 464 users was because of a bug in the

464's version of Locomotive BASIC, making it incapable of handling the RUN F5 line. I agree with you about the protection thing, though, as I haven't protected a single loader yet - you couldn't list my earlier loaders because they were in machine code, not BASIC. **Simon**

We're really sorry about this, but we're a bit confused. There was no spellchecker on a covertape around issue 19 and back in those days we never offered tape-to-disc transfers anyway. Our second thought was that you might mean covertape 19, but that didn't have the programs you mentioned on it either. Feel free to send us a copy and we'll try to sort this out for you. **Dave**

**PS** Gee shucks, thanks.

**PPS** Normally my answer to this one would be, 'use our Reader Ads service' (see page 46), but there is a problem in this case. Prince of Persia is such a good game that nobody ever wants to sell it (except for me, I find it really boring). Then again you might be lucky and find some traitor who's trading in their CPC for some other computer who has a spare copy of PoP up for grabs. Give it a try.



Prince of Persia, everybody loves it, except Dave who falls asleep at the mention of it.



## POETRY CORNER

The Amstrad world's on its last legs,

Or so the softies think.

But never fear, 'cause Fegg is here,  
About to raise a stink.

How dare they not write SF2,  
Upon the CPC.

When everyone like me and you  
Would buy it instantly?

So listen up, here's Fegg's plan  
To make them all take note:  
We gather every Gremlin man  
And kick them in the throat.

We'll get the guys from US Gold  
And halve them down the middle,  
If Ocean don't do what they're told  
We'll roast them on the griddle.

And finally - this is no joke -  
A plan that's quite bizarre,  
We'll bring out AA's Hairy bloke,  
And loose him on guitar.

And e'en if they chop off their ears  
As Simon plucks and strums,  
Our secret weapon then appears,  
Dave Golder on the drums.

Doctor Fegg, Hiding from the police in  
the Venezuelan foothills



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**ABC 15,168**

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AMSTRAD ACTION May 1994

# NEXT MONTH

## Are you ready for

# MEGABLASTERS?

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hardware project,  
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features. And it's  
coming out on...

# Thursday 19th May 1994

## SEPARATED AT BIRTH?



**Blanka from  
Street Fighter 2**



**Jack Nicholson  
from Wolf**

Jolly Jack goes into method mode for his new stateside film *Wolf* (it'll be here soon) but we reckon that the erstwhile Joker would be a dead ringer for the big guy Blanka in a *Street Fighter 2* film.

Do you know of anyone who looks like a famous games character? Send your suggestions to: Separated at Birth, Amstrad Action, Future Publishing, 30 Monmouth Street, Bath, Avon BA1 2BW.

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