84 PAGES OF ESSENTIAL INFO FOR YOUR COMMODORE 64!


ARAC full game INVISION FULL GAME SHELLSHOCK FULL GAME COYRA pH3 full game SPRITES TUTORIAL CODE

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# AMES AT SOUND PRICES. 



CF34<br>July 1993

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## ABC

## 44,442

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 MONSTERWith programming on their latest mega-game gathering pace, Apex need THREE pages this month to tell their tale. It sounds like Mayhem In Monsterland (groan - the entire world).

## FAMIIY

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Gomez goes a-re cuing at 0001
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## 73 THE ARGON FACTO:

 LogykA graphic adventure with a difference - a $£ 1,0$ prize! But will it be the gameplay or the grand that keeps you engrossed?

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Hit Squad
Timber me shivers! Tengen coin-op' avast, ya lubbers... (I can't take any more of this - Ed).

## 76 LIVERPOOL

## Grandslam Video

Can the game live up to the club's illustrious rep'? CF puts the analog Anfield to the test.


4ome on, own up. You've loaded Arac, had a quick blast, and you're totally confused. So you've come crawling to the Power Pack pages hoping to find out what it's all about. Makes a change to find a game that you you actually have to read the instructions to, doesn't it? But it's well worth the effort, believe us.

You play Arac, a robot with a spider fixation. If you chose to play the long game you'll have to hunt out his arachnoid bits - two legs and a power globe - before you can turn into the spidery thing, but in the short game you're already supplied with your bits. To turn Arac into his arachnid alter-ego select the far right panel in the menu screen (which you access by holding down and pressing Fire). The spider has a very limited amount of energy so you have to change back into the robot by selecting the same panel, before it runs out.

As a legless robot, all Arac can do is fire a net to catch the various creatures which populate the game. As a spider, though, he's also armed with a stun gun. Another advantage of being an arachnoid is that you can walk on the ceilings - always a handy trick.

The aim of the game is to deactivate three reactors located inside a fortified citadel, but to get into the citadel Arac must have all his spi-

## VITAL STATISTIX

Game
Original Release
Programmer
Original Label
Genre
Difficulty
ARAC
Sept 86
Paul O'Malley Addictive Games Arcade Adventure Dead 'ard

der bits. And you've got a maximum of 30 minutes ( 20 minutes in the short game) to do it all in - hold the joystick down and the time remaining will appear in the bottom right hand corner of the screen. To net a creature just press the Fire button. Hold down Fire longer to shoot out the net further، Any

## Gisjuvia fanture

Malevolent Man
Of War - you can only capture him when he's been
stunned; his skill is fusing delicate electronics.

captured beasties are displayed on the menu screen. You can only hold up to eight of each type of creature at a time. Each creature has its own


Big Borer This fella will gnaw his way through solid walls for you.

Other Info: To pause the game press $\mathbf{P}$ while any joystick movement will restart it. special talent which can help you out. If you want to use make use of one of these talents, all you need to do is select the relevant beastie from the menu, hit your Fire button, then push up on the joystick to exit the menu screen hey presto, one beastie at your command.

This is definitely one of the best arcade adventures we've had on the Power Pack. Dizzy eat your heart out.

## CUICKSTART INFO

Side Two • Tape Count 000 • Joystick port 2

|  | UP |
| :--- | :--- |
| DOWN | Move up. |
| Rove down. |  |
| LEFT | Move left. |
| RIGHT | Move right. |
|  | FIRE |
|  | SPACE |



| Arac, our crouching, jumping, spider-loving, net-flinging hero. <br> The cage in which Arac stores his catches $\qquad$ until he needs them. | Energy reserve level, let this drop to zero and you'll be out of action. <br> Achievement indicator, 100 per cent means you've finished the game. |
| :---: | :---: |
| Select E if <br> you're completely stuck and want to start again. | E <br> The number of each sort of creature you've got in your cage is displayed in this panel; move the cursor over the one you want to use and hit Fire. |

 stranger than strange! An invisible pinball game! Well almost invisible, you can see the ball and the flippers but that's about all - unless you hit something in which case it'll flash for a fraction of a second.

Some of the obstacles will stay visible for longer, and if you manage to light up combinations of them in the correct order, then you earn masses of bonus points. But apart from not

plays pretty much like normal pinball. You get five balls per go and the aim of the game is simply to stop the ball from going out of play by using the flippers at the bottom of the table (and there might even be another invisible flipper somewhere else on the table - but we're not letting on, that's for you to find out* ). Like the real game, it's not as easy as it sounds, so give it a go - it's flippin' fun.

## WANNA SEE MORE?

Invision is bought to you courtesy of Kingsway Computer Services. If you'd like to see what more they have to offer turn to page 26 or send a large SAE to Kingsway, 72 Glencoe Road, Sheffield, S2 2SR ( $=0742750623$ ) for a catalogue.


You can make the table edges
are invisible ( if you're that masochistic).

## VITAL STATISTIX

GAME ORIGINAL RELEASE KIngsway GENRE Pinball Simulator DIFFICULTY

Easy

## CUICKSTART INFO

Side Two • Tape Count 060 • Joystick port 1

| DOWN | Decrease tension on <br> the plunger. |
| :--- | :--- |
| FEFT | Increase tension on <br> the plunger. |
| F3 | RIGHT | | Right flipper. |
| :--- |
| F4 |


i

## SPRITE CODE

Impressed by the fast sprite demo? We bet you are. Here's a listing of the Basic program used to create it. The listing is rather long so when you see a bit that you want to look at scrolling up the screen hit Run/Stop. The scrolling should then come to a halt. When you've got bored with that bit and want to set it off again just type LIST and you're off.

## CUICKSTART INFO

Side Two • Tape Count $105 \cdot$ Keyboard
Hit Run/Stop to pause the listing. Type LIST to get it scrolling again.

## FAST SPRITES

Following in the footsteps of our feature on page 19 we do the sprite thing on the power pack. This first demo is an example of improving on the simple program we showed you last month, the big difference being the speed of the sprites. Sprite-ly, or what? (I don't believe you just said that - Ed.)

## QUICKSTARI INFO

Side Two * Tape Count 095 • Joystick port 2

| LEFT | Move left. |
| :--- | :--- |
| RIGHT | Move right. |
| FIRE | Have a guess |

STRIKE ANY KEY? D BHmany whatus or wey sheurex


ASETI that UE DF XEY STRUCR 68 -

## PACE DO YOU LAMTHE SYMP? HK OHHR KEY = YES

## IEAPNING BINARY

Another annex to the Sprite feature this month is this smart binary tutor. Simply type in the letter or number you want to know the binary code for and hit Return. The program will respond with the binary code and ASCII value of that key.

To find the value of another key hit Space and then type that letter. If you want to see how the program works hit anything other than the Space bar and type 'LIST' to get the basic listing for the program.

## QUICKSTART INFO

Side Two - Tape Count 125 - Keyboard
Type in a letter plus Return to find out the binary code of that letter. Space then lets you input another letter. Type LIST to get a basic listing of the program.

年
or the third and final
time CF takes you into the realm of the Warrior Sages．We＇ve been to many places together over the last few months． We＇ve visited shrubberies，fought off dragons and supped beer with the humans．But now it＇s time for you to complete your journey

Playing Corya is easier than taking candy from a dwarf．When the game has loaded it＇ll ask you for the password from part two（which was FALCON，in case you were too dim to finish the game last month）．Type it in and hit Return．Now you＇re into the game proper．Loads of text will come up on screen－read it carefully because there could be some clues in there．Then it＇s time to type in some instructions for Corya（the geezer you＇re playing）．Decide what want him to do then type in your instructions．The game will

## COT A DEK DRIV？

Let＇s face it，slipping a disk smoothly into a drive is a lot easier than having to fiddle around with a head alignment screw．If you＇re lucky enough to own a disk drive for your 64，then this service was designed especially for you．For a small fee（to cover postage and duplica－ tion costs）our mates at Ablex will send you a Power Pack lovingly transferred on to 5.25 －inches of floppy disk．

Getting hold of your disk is easier than Tony Slattery spotting．Simply cut out the coupon from the tape inlay card． Pop it in an envelope along with your name，address and a cheque for £1．50 （made payable to Ablex Audio Video），
and send the whole kit＇n＇kabbodle to：
CF34 Tape－to－Disk
Ablex Audio Video
Harcourt，Telford
Shropshire，TF7 4QD．

## PART 3

What now？．．．．${ }^{\text {e }}$ ？
Corya couldnn＇t
Corya couldn＇t
What noy？id it ${ }^{n}$ a junction of corridors． Corya steod at the corridor，entered the courtinued to a bend．
Hhat now？
Corya saw nothing special：


Dread hung in the alr？How＇d he do that？ Has he got a hang－glider or something？ understand a lot of normal English phrases，but if at first the 64 doesn＇t know what you mean，try rephrasing your sentences（＇Examine room＇for example，as opposed to，＇Give the joint a good going over＇．）Check out the Quick Start box if
you＇re having problems．


Mirrar，mirror，on the wall，who＇s the bravest of them all？

## VITAL STATISTIX

Game Corya The Warrior Sage

Original Felease Original Label Programmer Genre Difficulty

March 1993 The Guild Simon Collins Text Adventure Medium to hard

## No $-40-40,1=$

Sometimes even I have trouble loading my Power Packs．You know how it is． You＇ve done your best，you＇ve tried all the options but even re－ aligning the tape head won t work． That＇s when I turn to Ablex for their expert help．They offer a truly excellent tape replacement service，for those times when only the best will do．If you too suffer from the same embarrassing problem，then pop the tape in a jiffy
bag，along with a stamped addressed envelope and send it to：

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Don＇t send your tapes to us here at CF． If you do they＇ll invariably get lost under the masses of other post we have to sift through every month．So folks，for quick service，send your faulty tapes to Ablex！

## CORYA PT 2

 COMPLETE SOLUTIONOnly turn the page upside down and read this bit if you＇re a com－ plete airhead and couldn＇t do part two of the Warrior Sage that we put on the Power Pack
$\cdots S$ • $\perp H W \forall ר$ A $\forall S \bullet S \bullet S \bullet$ YNV7d $1 \exists 5$
－MOAVHS • X •S • M • ヨyㅕㅕ LSVO －HכNVYg annoy SפVy dVyM • ч007」 7ヨヨコ・ヨ・フาマM 7ヨヨコ・ヨ・ヨ －HONVYg $\perp$ กつ • H $\perp \mathrm{NH} \perp$ A $\forall S$ • ヨ＾Vヨา
－7า0yวs avヨy• yヨ1Nヨ・ヨ・ヨ・ LIVM• वาヨIHS LS甘つ・ ヨy甘CV AVS・ヨ －N•N・ヨ・ヨ・S・ヨイシヨา•N•70aI $1 \exists \supseteq \bullet \exists y I\lrcorner ~ \perp S \forall O \bullet S \bullet y ヨ \perp N \exists \bullet N \bullet M$ $\bullet$ 人 벼ggnyHS X•M•S•S•Nヨ1SI7


## QUICKSTART INFO

Side One－Tape Count $000 \cdot$ Keyboard Password：Falcon
In Corya you have to use that strange that came with your computer called a keyboard．Here are some instructions you might find handy
N －Never
E－Eat
S－Shredded
W－Wheat（okay，we＇re not being com－ pletely frank here but come on，N，E，S and W are pretty obvious aren＇t they？）
U－Up，if say you have a rope to climb
D－Down，maybe there＇s a man hole．
Get（then an object）－Pick up that object and chuck it in your rucksack Cast（then name of spell）－Cast one of your collection of spells
X（then name of an object）－Examine the object indicated
I－Inventory，in laymen＇s terms：tell me what l＇ve got in my bag．
Wear（then name of an object）－Put he offensive piece of clothing on your body． Insert（then name of object）－Put the object in a hole（like a coin in a slot？） Skin（name of animal）－Yeuch！Remove the skin of the animal in question．

## Wanna know the latest gossip? Then read on...

## COMMERCIAL PD?

Binary Zone PD are set to join the ranks of commercial C64 publishers. The first release on their new Psytronik label will be Jon Wells' long-awaited arcade adventure, The Sceptre of Baghdad. Selling for $£ 3$, the game will be available through mail order in July, so keep your eyes peeled for ads.

CF reviewed Sceptre back in February when it was due to be released by Atlantis, and gave it a Powertest rating of 73 per cent. Since then Jon has added better graphics, more sounds and revamped the entire game structure.

For more info about Psytronik. The Sceptre Of Baghdad or how to order send a large SAE to Psytronik Software, 34 Portland

Road, Droitwich. Worcester, WR9 7QW.
Have you been wondering what
Have you been wondering what

## HA-DO-GUN?

You've played the game now play the, er, game again with little plastic models. Toymakers Hasbro have been commissioned to produce a series of Street Fighter 2 action models. The only problem is, if the promotional pics are anything to go by, they could hardly be called replicas. As Trent said when he saw them: "lf they've got guns why don't they shoot instead of kicking and punching each other?"


## LEARN TO PROFIT

Rickitt Educational Media have introduced a new software-for-schools policy. Now, for every pound that you spend with them they'll give you a voucher worth 20p off software for your school. And, as market leaders, Rickitt's Educational Software Review boasts a bevy of 64 programmes, like the fantastic Fun Schoors and Paint And Create .

To find out further details, ask your school to contact Tsui Miller at Rickitt Educational Media, IIton, IIminster, Somerset, TA19 9HS ( $=0460$ 57152) for a brochure.
 Software Review
 Riditit EAcucational Media


## CONI FOR A SONC?

Mega-corp Sony have taken the plunge into the computer software biz and have bought up the tative from Psygnlisher Psygnosis. A represen will not affect the devis said that: "The Sony deal any format". Whichelopment of any software or C64 project, Lemmings, wher for their latest uled for retease , which is sched-

## $\exists$ Ait M M A M

Your at-a-glance guide to upcoming releases. The nearer a game is to the middle of the scanner, the nearer it is to release. Keep watching the skies.


## This Commodore Mouse is a high resolution two button mouse

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COMMODORE DISK USER


Hulk Hogan scored a huge C64 hit as one of the three 'superstars' in WWF Wrestlemania. Now he's going solo in the movie licence Suburban Commando. Clur checks out his chances of a claiming a second Corker.
 ome on, own up, which scriptwriter decided to call a mega super powerful alien Shep? Whoever it was deserves to be ridiculed in the streets. Even worse is the fact that they

Hulk, big and blonde as ever, but with an even more ridiculous name (what, Terry? - Ed).


## VHAL SHAJEILS

GAME ........... SUBURBAN COMMANDO PUBLISHER SUBURBAN COMMANDO CONTACT NUMBER.........0977 797777 PRICE ................ 9.99
AVAILABLE gave him the surname Ramsey! He sounds as if he belongs tied by his collar to a post box in Madge from Neighbours' front garden.

In fact Shep's an alien played by Hulk Hogan, and he's got big problems. First, he's crash-landed his space ship in the suburbs of Los Angeles. And secondly, the evil General-Ruler-Of-The-Universe-type-guy has ordered his droogs to earth in order to bring (get down!) Shep back.

The General's a bit miffed at Shep you see, because before he crash-landed our hero
booby-trapped his battle-cruiser. So to escape the dreadful fate that awaits him should the General's men catch him, Shep has to search the city for the bits to repair his ship with.

This is where you come in. You have to guide Shep through LA beating up the General's men when you bump into them, and collecting a bunch of spare parts for your flying machine along the way. Which all sounds dead violent - just the way I like it!

We're told the game's going to take the form of, "four levels of non-stop action taking you from the depths of space to the heart of LA." and apparently the plot sticks closely to the story of the film. Fine, but let's hope the game doesn't stick too closely to the quality of Hulk's acting - face it, the average C64 sprite has a much wider range of expressions!



What odds are you giving? I reckon I'II have a tenner on the big one. Then again this is based on an American film, and the little guy always wins in them. Right, I'II go for Mr Peroxide.


This section looks like it might well be very smelly and full of rats. What's old Hulk doing gown here, then? I bet they got a stunt double. He'd never let his tights get grubby.
"Pirates and Turbocharge? How I am I supposed to work both of those games into a Kixx preview strapline?" Clur asked. "You just have," answered Dave.
ing you are (that must be a novelty for you, Clur... Oooof - Ed), all of which affect your fate in the game. There's a set of difficulty leveis too, and that's darned good news for all us land lubbers because the bits l've seen so far look dead tough.

The aim is to slowly build up a fleet of ships and loyal crews in order to gain fame fortune and happiness in the Caribbean ports. The game involves you being entirely selfish and doing everything for the good of 'S. Spantorn
"All hail to the
great God Bendy Arms." number one and only being nice to people if you can get something out of them (so if Frames reviewed it, he'd give it about 105 per cent - Ed). So next month I'll be having testing my sea legs all the way through to the Expert level where presumably at least one wooden leg is a pre-requisite and you don't have to worry about dandruff because your shoulders are covered in parrot droppings.

VHALL SLAJISTLES
GAME . .PIRATES
PUBLISHER .. KIXX CONHACT NUMBER....... 0216253388 PRICE .. $\qquad$ .CASS £4.99/DISK £7.99 AVAILABLE $\qquad$ .OUT NOW
OTHER INFO MULTILOAD


s one of the recommended driving games in our Modern Classics Pull out, it's obvious that Turbocharge is a destined to become a a smash hit of epic proportions! I'll eat my baseball cap if this doesn't race to the top of the charts when it hits the shops at £3.99. I suppose you'd put Pirates in the strategy genre if you really wanted, but why pigeonhole things that don't need to be? Pirates is a harmonious war/strategy game hybrid that peacefully co-exists with touches of text adventure and a bit of a beat-'em-up.

You can chose who you want to be, where you come from and even how charm-
pretty slick piece of programming. And now it's all set to come out on budget. So as long as they don't fiddle around with it too much in order to fit it on


Turbocharge on full price was given a Corking 93 per cent way back in CF13 and it was a well-deserved score. The game was simply the best racing shoot-
its time. But can Turbocharge's one-player firepower help it see off the two-
 player threat of Lotus Esprit Turbo Challenge in the budget arena? Watch out for the review next ish.


## VHAL SLADISULE

## 16 SPECIAL

# Clur's always moaning that nobody ever appreciates how hard she works. To shut <br> country custom). Today Dave lost, which is great 'cos he makes a good cuppa. 

 her up we've let her have three pages to whitter on about herseif (we have to suffer it all day so why shouldn't your). So, get ready for a day-by-day breakdown of Clur's contribution to the very issue you're reading right now...
## GANRDAY 8th MAY

Oooohh we're on our way to Wembley... Well the Wembley Exhibition Centre, anyway, to help at the Amiga Format Live show (and give CF a plug at every opportunity). We've just sent CF33 to the printers - in fact, Ollie, Trent and Dave were putting the finishing touches to it this morning before I left for London. I end up working a lot of weekends anyway so this isn't so much different from usual. At least I got to go on the Virtual Reality machines when all the punters had gone home. But it's back to the grind on Monday. So far
we've only got one game definitely in for review, The Addams Family, so I'm going to have to do some mad phoning around the software companies when I get back to work.

## motpay 10th

Why do there have to be Monday mornings? The world would be a much better place \# Monday mornings were abolished for good and you could have a nice long lie in.

Ollie's over the moon because my monthly phone around revealed that Grandslam have finally got Liverpool ready. Ollie may be the arty farty one but he'll probably have a lot of input into the review being such a footie fan. Some more budget stuff is now also on the way and Bee 52 should also be reviewable this month. The major dilemma of the day is
The Amiga Format Live
Show - Ifm in there somewhem in there
somewhere.

FIVE INCREDIBLY DIFFICULT STEPS (EACH REQUIRING HUGE AMOUNIS OF SKIL AND EFFORT; WE'LI HAVE YOU
who's going to make the tea? The problem is usually solved with a 'spoof' (a strange West


1 First, Trent draws up a flat plan, which shows what will be going on each page. The Addams Family pages are highlighted.

## TUESDAY 11 th

It's strange how Trent's always out of the office on Tuesdays. He assures us it has nothing to do with it being reader call day. We've had a long chat about the Modern
Classics pull-out and l've been given the oh-so interesting task of collating lists of available games. Okay it's going to be extremely useful for you lot, and an essential part of the pullout, but compiling it isn't going to be the most exciting piece of writing l've ever done.

But I immediately rang all the software companies to quiz them about the availability of their games. Unfortunately most of them weren't in because they were still recovering from the aftermath of Amiga Format Live.

By about four o'clock my concentration waned and The Addams Family slipped into the datassette and loaded all by itself. Spooky huh? Seeing as it was there I thought I might as well play it - purely in the course of duty, of course.

## WFDNEFPAY 12H

When we've decided what's going in the mag Trent draws up a flat plan, which is

## D) $=\sqrt{D}$ <br> screenshots. We use Apple Macintosh computers to put the magazine together so I have to convert the picture signal from the C64 into data that the Mac can understand - It's a bit of a long-winded <br> system but it's much better than pho- <br> tographing the screen from the monitor <br> which is what we used to do. <br> Meanwhile I'm still ringing around the softies. Still no news on Lemmings, although Psygnosis confirm that we have an exclusive on a playable demo of the game. <br> morday 176 I grabbed The Addams Family yesterday so there's nothing left to do but finish writing the review. I use a standard word processor; all the fancy stuff is done by <br> For some reason I always end up in daft poses during the photo shoots while Trent, er, doesn't. Ollie and Lisa on their far more powerful

basically a map of the issue so that we all know what's going where. The flat plan for CF34 is particularly huge and scary with 16 more pages than usual! So I panicked and started on my Addams Family review (about time too! - Dave).

We also did a photo shoot today for the contents page and I can assure you that being a model is no glamorous job. I spent all morning in a cold studio striking daft, uncomfortable poses in a very unflattering footie top and a pair of oversized trainers that made me look like Goofy.

## TIURSDAY 13 h

From ten 'til six today I was stuck in a small room with six lads and a middleaged newspaper journalist. We spent most of the day slagging off each others' writing and discussing the validity of the headline, 'Freddie Starr Ate My Hamster' Apparently this was supposed to teach me about writing good news stories. Check out Snippets and see if you think the course did any good.

## FitD AT AM,

I've been playing The Addams Family on and off for a few days now so the next thing to do was grab some

Macs. Usually once l've written a review 1 leave it over night and check it again in the moming for mistakes when my mind is fresh. You never catch all your mistakes - it's better that someone else looks through it too (and guess who ends up with that gargantuan task? -Dave).

Trent and I had to decide what was going on the cover tape, which means playing yet more games. It might sound a doss, but it can get very tedious sitting through tons of humdrum games looking for a few that are up to the high standards that the CF Power Pack demands. When we've made our choice the programs are sent off to be compacted and duplicated.

## $11720: 1811$

I gave The Addams Family one final check then Dave took it across to his Mac and 'subbed' the copy, In other words he read through what l'd written, corrected any spelling or grammatical mistakes and put everything, including the pictures, into a file into QuarkXPress, the Desk Top Publishing (DTP) program we use.

Meanwhile, I spent most of the day dealing with reader calls. Most of them have queries about games and want to speak to Andy, but he doesn't work in the office, so they have to make do with me. Anyway, it's probably much more of a thrill for the callers (are you sure? - Ed).

Issue 33 came back from the printers so we had our monthly meeting with Jane, our publisher, to discuss what was good and what was bad (ie, we tell her what was good, she points out was

bad, and both sides disagree). She usually sends out for Bagels but all we had this time was a cup of tea each. Dave sulked for the rest of the day.

I went to visit David Birch at Grandslam in Croydon (you get to go to all the most glamorous locations in this job) to pick up a copy of Liverpool. When I got back I gave the review to Dave to do, 'cos he beat me three-nil at it. Let's hope it goes better for the Owls tomorrow.

## THURSDAY 20th

Aaargh! Bee 52 won't be in for review this issue! Richard Eddy from

3 Out with the dictionary and Thesaurus, the hard work begins now - writing the review on my word processor.

4 Dave... (turns the review into coherent English - Dave) I'II ignore that... Then he sticks all the words into a DTP package.


5 Finally Ollie and Lisa design all the fancy layouts (we let Ollie do The Addams Famity'cos well into tacky horror).

CodeMasters gave us a ring to say they were holding up release of the game until the NES version is ready. Don't you hate consoles?

It was Dave's birthday today so we all clubbed together and bought him a prezzie. You know he doesn't deserve pals like us. (You can say that again! What have I done to deserve pals like you? - Dave.) Predictably, we're all going out for a meal tonight to celebrate.

Trent was glued to telly all day for news of the FA Cup final so I played Rodland 'till it came out of my ears.

## 

Ollie started laying out The Addams Family review today. All the art's done on Apple Macs and Ollie's got a particularly smart one. It can

have taken typing at school instead of A level Pure Maths.

## WI: 26th

Trent gave The Addams Family one last check before it was sent to our in-house lino machine - that's where the page is put on to the film that will ultimately be sent to the printers.

I still haven't finished typing in
those lists; this is taking me much longer than I thought it would. I should have started on the Skull and Crossbones review by now but it's going to have to wait.

## HUUFDAY 27fh

Finally those darned lists have been finished. I hope you lot appreciate them. Anyway, as it's getting close to deadline so, I stayed late (ahh, diddums - Ed) to get a start on the Skull and Crossbones page that should have been finished two days ago.

## Zif B al

It looks like l'll probably have to work this weekend. We've got a lot of extra work to do, because of the extra pages, and everyone does their bit to help I tried to grab pics of Skull and Crossbones but the grabbing system is playing up again. For some
there's a copy of Guns and Ammo hidden behind there, honest... Darn, I've been sussed!
easy as it first looks I can tell you that for nothing (but you're not; you're getting paid for writing this - Ed). Me and Ollie always try to have a chat about the design before he starts, it makes things a lot easier if you've got specific ideas about how the page should look.

Time to start work on Previews and Snippets today. Writing the pages is easy. Getting the stuff in to fill them with isn't. That's where all that phoning around pays off; you need to be constantly in touch with the softies to make sure you don't miss out on anything important.

## MONDAY 24

Reviewing and grabbing Rodland was priority number one today. Ollie finished the design on The Addams Family over the weekend so Dave has one last check over it for mistakes and quirkiness that may have appeared. Sometimes (usually! - Dave) there are the wrong number of words to fit in the space that Ollie's left between the piccies. So Dave either has to write some more or cut some words out. I still have to do all the captioning, though.

## 냐․ 2 ar 25in

Trent didn't come in today. He said he had to get his car MOTed. Which is rather odd, seeing as he hasn't got a car. Ollie and Dave hogged the 64 all day while I continued typing in the lists of games for the pull-out. I knew I should
reason it's filtering out all the red in the pictures. We got Avi, Future's main technical bod, to have a look at it, but he couldn't find anything wrong and accused us of breaking it and being a bunch of incompetents (tact is not one of Avi's strong points). So I hit it (which didn't help but made me feel an awful lot better).

## M(s) B ir alish

Avi's fixed the grabber so I successfully grabbed Skull and Crossbones, red and all, and handed the review over to Dave.

The Argon Conspiracy has turned up, so I've got to make a start on that, not to mention the fact that Trent has off-


Spoofing is what the CF crew resorts to when we need to decide who's going to have to undertake some odious task (like making the tea). It's an elimination game that involves guessing how many colns everybody's holding in their sweaty palms and it can take an age.

Yes it's true - Radion Ultra really does get out messy food stains. What a birthday surprise!

## loaded the

PD page on to me this month. Ah well that's your lot when you're a lowly staff writer (the bottom rung of the evolutionary ladder, really - Ed).

## UU $=-8$ A 1 si UMI

The tape duplicators sent five, randomly selected copies of the Power Pack back to us today. When they arrive everything else I'm doing comes to a full stop because I have to load and check every one. If I can't load even one game on one tape the batch is rejected.

Thankfully all the tapes worked first time this month, so it's back to The Argon Conspiracy and captioning the stuff that Ollie and Lisa have finished laying out.

## WEDNESDAY 2mid

I grabbed the tape games yesterday so my job for the day was to write the instructions. Some of the old classics we get have long since been divorced from their instructions, so it takes quite a while to figure out the controls sometimes.

Once l'd done that I became general dog's body for the evening: "Take this to so and so.. Just type that in... Get a price check on this.. Use your feminine touch to... Ooof!... Okay, forget that..." Dave and Trent proof pages like mad things, while Ollie and Lisa churn out stunning pages faster than a Canon colour photocopier (that's copying a page of CF, of course).

## TYY:ADAY 3T!

The Day before deadline. I've done everything I can do and there are still ten pages to design and proof before six o'clock tomorrow. Trent, Dave, Ollie and Lisa all slave away. But I'm already working on the next issue, ringing around the softies and starting work on the next round of reviews.

## Findiy 4\%

This is it, DEADLINE day! It's best to steer clear of the office on deadline, one wrong move and you'll have your head bitten off. Unfortunately, I can't find any excuse to steer clear, so I have to brave the elements and, predictably, end up making all the tea (any mention of the word spoof would be life-threatening).

Finally, about half six, all the pages have been sent to the lino. Ollie'll pick them all up and send all the film to the printers. But for now we're all off to the pub (for an intensive discussion about the next issue, of course).

thing (which, by some strange spooky co-incidence, we told you all about last month) but sticking it on your screen and getting it to move it about is another thing altogether (which by an even spookier co-incidence is what we're going to tell you about this month). But fret not, because we're just about to let you in on the secret of getting your sprites to do their thang. Secrets like the fact that SN stands for Sprite Number in all our abbreviations (don't worry, they do get a lot better).

## SPRITE POSITIONING

The VIC-II chip - which is a processor at the heart of the C64 that does a lot of hard numbercrunching work - is used to control where on screen a sprite will be displayed. If this information is updated rapidly enough, then sprites can be sent whizzing around the

30 days ago Do The Sprite Thing Part 1 revealed the shocking truth about how sprites are created. Now in the sequel, Do The Sprite Thing 2 (The Coder's Revenge) Bones tells us exactly where to put your sprites - and how to move them there in the first place!
one of 256 vertical screen positions. This sounds fine until you consider the C64's screen. The screen's resolution is 320 by 200 pixels. Positioning a sprite vertically is not a problem as there are more than enough positions in a register, but the horizontal DX register is some 65 positions, or pixels, short!

This is where the MSB Register comes into play; I bet you were wondering where it entered the frame - or should I say screen? (No you shouldn't-Ed.) The eight bits of this register act as on/off switches, one for each of the eight sprites. When a sprite travelling

## THE RICHI SPOT

The position of a sprite on the screen is always calculated from its TOP LEFT corner, no matter what data, or image, it contains. So even if there's only one bit in the bottom right corner switched ON, the sprite's position still has to be calculated from the TOP LEFT. any value from 0 to 255 . As each of these 'D' registers is a byte, this means that the DX Register allows a sprite to be placed in any one of 256 horizontal screen positions, while the DY Register allows a sprite to be placed in any Coordinate - Delta $X$ (DX) Register

2 Sprite Y-Screen Coordinate - Delta $Y$ (DY) Register 3 Most Significant Bit (MSB) Register

A byte can contain


1 Sprite X-Screen horizontally across the screen reaches a position where its DX Register value equals 255 , then for it to continue moving in the same direction some method of storing a larger number is needed. This is achieved by resetting the value in the $D X$ register to zero and turning ON the bit representing that sprite in the MSB Register.

Turning this bit ON tells the VIC-II chip that this sprite is at position 255 plus whatever the current value of the DX register is. Effectively this allows the DX Register, in conjunction with its bit in the MSB register, to double-up its screen positions from 256 to 512 , more than enough for the C64's screen.

The area of the screen which the MSB affects is the far right of the display. This is because like books, maps and virtually everything else in western culture the screen works from left to right. For a clearer picture, see fig 1.

This $512 \times 256$ 'map' does mean that some of the locations are hidden behind the screen's borders, but they can prove useful when you want to make sprites appear to emerge or disappear smoothly on or off of the screen.

Each sprite has its own pair of DX and DY registers, and uses the appropriate bit in the MSB register (bit 0 for sprite 0 , bit 1 for sprite 1 ,

## EXPANDED <br> SPRIIES

At the drop of a straw boater, your VIC-II chip can expand a sprite vertically, horizontally or in both directions at the same
 time. It simply makes each dot in the display twice as wide or twice as tall as normal. Of course this merely increases the size and not the resolution of the sprite.

This is achieved by using a specific memory register as a bank of eight switches.
For horizontal expansion use register 53277 ( $\$ \mathrm{D} 01 \mathrm{D}$ ) and for vertical expansion use register 53271 (\$D017). Try this for size:
POKE 53277, PEEK (53277) OR( $2 \neq \mathrm{SN}$ ) :RBM EXPAND THE X DIRBCTION
PORE 53277, PEEK (53277)AND (255-2 7 SN) :REM UNEXPAND THE X DIRECTION POKE 53271, PEEK (53271) OR ( $2 \neq \mathrm{SN}$ ) :RBM EXPAND THE Y DIRBCTION POKE 53271, PSEK ( 53271 ) AND $(255-2 \neq$ SN $)$ : REM UNEXPAND THE Y DIRECTION
etc) for its horizontal extremes. Table 1 lists, among others, the locations of all the sprite positioning registers. It's these registers which are used (via either Basic POKE statements or machine code Load/Store instructions) to move sprites around the screen.

## VERTICAL (Y) Positioninc

Although it may seem a little cock-eyed, it's best to tackle $Y$ positioning first as it isn't complicated by our old friend MSB. NB: Sprite 0 is used in all the following examples. Its $Y$ coordinate is stored at location 53249 (D\$001).

If you POKE 53249,0 then you won't see your sprite on the screen because it's hidden by the top border. It will remain hidden until you POKE a value greater than 29 (this is how many pixels wide the border is) to that location. POKE 53249 with a value of 30 and the bottom row of pixels of the 21 rows which make up the sprite will be visible. POKE a value of 50 and the entire sprite is visible.

If you now POKE a value greater than 249
the sprite will disappear behind the bottom bor-


It may help to load up CFs own sprite creator FROST. This package was given away on Power Pack 32 and is useful to have running as you read this feature.
uses bit 0 , Sprite 1 uses bit 1 , and so on for all eight sprites and bits. To set (1) or reset (0) a bit in the MSB Register: POKE 53264, PEEK (53264) OR (2 2 TsN) to turn the bit on, or POKE 53264, PEEK (53264) AND ( $255-2 \uparrow$ SN $)$ to turn the bit off. When moving sprites around the screen the program must
der. As values from 0 to 255 can be POKE'd into the register this means you can smoothly scroll a sprite out from and in to the top and bottom borders.

Things are a bit different when you use vertically expanded sprites because they are twice as high. So only POKEs which are less than nine will result in the sprite being hidden entirely behind the top border; POKEing between 50 and 208 will display the entire sprite on-screen. In fact, 208 gives the appearance that the expanded sprite is resting on the bottom border. Greater than 208 and the sprite will start to disappear behind the bottom border.

## HORIZONTAL POSITIONING

Positioning sprites horizontally is more difficult because there are more than 256 locations and so the MSB (you have been paying attention, haven't you?) comes into play. To obtain a number greater simply to show what can be done using all eight sprites.

2 SPRITE DEMO.TXT (Power Pack 33) - This program is a tutorial which examines, almost line by line, the major coding used

## in SPRITE DEMO.BAS.

## 3 BIT DEMO.BAS (Power Pack 34) - This program

 shows a somewhat different approach to the use of sprites in that it uses all eight sprites to graphically represent the binary bits of the ASCII keys selected by the user from the keyboard.4 SPRITE DEMO.MC (Power Pack 34) - This is virtually the same program as SPRITE DEMO.BAS except it has been converted into machine code. It gives a good comparison of the efficiency of the two languages and is around 2.5 Kb shorter than its Basic equivalent.

5 SPRITE DEMO.SRC (Power Pack 34) - For machine code programmers this is the Assembler source code for SPRITE DEMO.MC. It was written using the 6510 + Assembler, but can be read, though not run, as a Basic file. This was written to emulate the Basic program as closely as possible.
than 255 a further byte, the MSB, is needed. However, only a few extra positions are needed so it isn't necessary to gobble up a whole second byte, just one bit per sprite will suffice. When this bit is OFF ( 0 ) then the usual 0-255 value stands. When the bit is set ON (1) then 256 is added to the value held in the Sprite's Y register. This means that you can access from 0 to 511 locations. For example, if a sprite's $Y$ register contains the value 60 and the MSB has the relevant bit set ON then the true value, or screen location, is $256+60=316$.

The locations horizontally visible on screen run from 24 to 343 . Any other value means the sprite is either fully or partially hidden behind the border. Each sprite uses a bit from the MSB register. Sprite 0
keep a constant check on the sprite's DX Register and be ready to either set or reset the X's Most Significant Bit.

NB. If you add 1 to a byte that currently holds a value of 255 then it will wrap back around to 0 . Likewise subtract 1 from a byte holding the value 0 and the result will be a value of 255 .

## ON THE MOVE

So, now you know how to get a sprite to show itself on screen but how do you get it to move? Simple really. You just write a short piece of code in which the values of the DX bytes are constantly being altered. To get a smooth left-to-right movement, for example, you would keep adding, say, two to the DX value. Constantly subtracting two would make it move from right to left. Up and down movement (surprise, surprise) is the result of altering the DY value. And, just like with an Etch-A-Sketch ${ }^{\text {TM }}$, fiddle with both values at the same time and you get diagonal movement.

## DISPLAY PRIORITIES

Sprites can appear to cross each other's paths, to move behind each other, or behind other onscreen 'objects' (such as bit-mapped screens or characters) which can add a feeling of 3D to your games.

The priority between sprites is fixed. If you display all the sprites so they overlap slightly like a pack of eight playing cards - then sprite 0 will be in front of all the others, sprite 1 will be immedately behind sprite 0 but in front of the rest and so on with sprite 7 buried right at the back somewhere.

Sprite to background priority is not fixed. So you can control whether a sprite appears in front of or behind background data. Different sprites can also be given different priorities with some sprites appearing behind, and others in front of background objects. This can be used to create the illusion of sprites going in front of and behind the game's scenery.

Control is achieved by setting or resetting the appropriate bit in the Sprite to Background Display Register at location 53275 (D01B). A value of 1 means that the Sprite has priority over background, while 0 means the background has priority. The process for turning the


FROST is packed with handy features. Each screen shows the address and pointer values.

Priority Register ON or OFF is the same as that outlined in turning sprites (or bits) on or off.

## COLLISION DETECTS

The VIC-II chip has a built-in facility to detect when a sprite overlaps other sprites or background data. 'Collision detection' proves useful for tasks like determining if the game's laser bolt sprites have hit or missed the player's space ship sprite.

A collision between two or more sprites is detected by reading the sprite-to-sprite Collision Register at 53278 (\$DO1E). The bits in this register once again are used as a bank of eight switches (one for each sprite). So if, say, sprites 0 and 6 are touching each other then bits 0 and 6 will be set to 1 . In other words the value held in the register will be 65 . Why? Er, well check this little lot out:

| 7 | 6 | 5 | 4 | 3 | 2 | 1 | $0=$ bit number |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| 0 | 1 | 0 | 0 | 0 | 0 | 0 | $1=$ on off/bits |
| 128 | 64 | 32 | 16 | 8 | 4 | 2 | $1=$ bit values |
| $0+$ | $64+$ | $0+$ | $0+$ | $0+$ | $0+$ | $0+$ | $1=65$ |

What this all means is if the value of the byte is determined to be either $1,2,4,8,16$, 32,64 or 128 then no collision will have happend. If it's any other value (as shown in the example above) then a collision is deemed to have occurred.

If you write a collision detection routine it's best to read the register with something like SN $=$ PEEK (53278) and then to work with this SN, as once the register is read it automatically resets itself to zero. It's also good practice before exiting from this routine to read the register once more with PEEK (53278) just to ensure that the register has been cleared.

## THAT'S YER LOT

So now you know all about sprites. Don't you feel a better, more rounded person, happier with both the world and your life? If there are any specific points that you're confused about... well, that's what Jason and his Techie Tips are here for.

If you've enjoyed, found useful or wrapped your chips in Do The Sprite Thing, then make sure and lets us know. And when you do make sure and note down the areas you'd like to see explored along with your level of technical expertise.

BONES

Cribrablemers
Throughout this feature we've been giving you important memory locations. If you've been conscientious you will have noted them all down. If you haven't, then have a good laugh at all those boring conscientious squares, 'cos here's a summary table of the whole darned lot of them:

| HEX NO | DEC NO | DESCRIPTION |
| :---: | :---: | :---: |
| D000 | 53248 | Sprite $0 \times$ position. |
| D001 | 53249- | Sprites 0 Y position |
| D002 | 53250 | Sprite 1 X position. |
| D003 | 53251- | Sprites 1 Y position |
| D004 | 53252 | Sprite 2 X position. |
| D005 | 53253- | Sprites 2 Y position |
| D006 | 53254 | Sprite 3 X position. |
| D007 | 53255 | Sprites 3 Y position |
| D008 | 53256 | Sprite 4 X position. |
| D009 | 53257 - | Sprites 4Y position |
| D00A | 53258 | Sprite 5 X position. |
| D00B | 53259 | Sprite 5 Y position. |
| D00C | 53260 | Sprite 6 X position. |
| D00D | 53261 | Sprite 6 Yposition. |
| DOOE | 53262 | Sprite 7 X position. |
| D00F | 53263 | Sprite 7 Y position. |
| D010 | 53264 | Sprites 0-7 X position (MSB of X Co-ordinate) |
| D0115 | 53269 | Sprite display enable $1=$ enabled, $0=0$ off |
| D017 | 53271 | Sprites 0-7 expand $2 \times$ vertical ( Y register) |
| D01B | 53275 | Sprite to background display priority $1=$ sprite, $0=$ back |
| D01C | 53276 | Sprite 0-7 multicolour mode select $1=\mathrm{MCM}, 0=$ Hires |
| D01D | 53277 | Sprite 0-7 expand $2 \times$ horizontally ( X register) |
| D01E | 53278 | Sprite to Sprite collision detection |
| D01F | 53279 | Sprite to Background collision detection |
| D025 | 53285 | Sprite Multicolour register 0 |
| D026 | 53286 | Sprite Multicolour register 1 |
| D027 | 53287 | Sprite Colour register 0 |
| D028 | 53288 | Sprite Colour register 1 |
| D029 | 53289 | Sprite Colour register 2 |
| D02A | 53290 | Sprite Colour register 3 |
| D02B | 53291 | Sprite Colour register 4 |
| D02C | 53292 | Sprite Colour register 5 |
| D02D | 53293 | Sprite Colour register 6 |
| D02E | 53294 | Sprite Colour register 7 |

## MOST STRENUOUS BIT!

If you wanted to move sprite four acroos the screen from left to right, location by location, then when you reach location 256 the value in the DX must be reset to zero and bit four of the MSB must be set to one. The result is the value 257 . Continuing to add one to the location value would then continue to move the sprite across the screen.


Zangief and E Honda) with no projectile. This is in reply to the letter from Craig Walker and Gavin Davis in CF32. Kevin Hollowed, Eire.

1 Taking your point of view to a logical extreme nothing was real until photography was invented! But seriously, we use drawings for the simple reason that while I am considered something of a 'hunk' among my species, to humans I could hardly be considered photogenic. 2 It's a neat idea and it would work, but at the moment there seems to be a plethora of new Street Fighter variations - Final Victory has just been released and a Turbo Version is in the pipeline - so the Championship Edition is no longer 'top of the range'. We'll have to wait and see if anyone takes up the licence when the dust has settled.

TMB

## BANANAS

Dear Commodore Format,
WARNING! This letter is about FOOD - so don't show it to Mr David Golder Esq! I've got an improved recipe for Clur's Banana Milkshake. It's wicked! You need:
3 Teaspoons drinking chocolate powder $1 / 2$ teaspoon hazelnut chocolate spread 1 Scoop vanilla ice cream
1 pint semi-skimmed milk (a dash of cream is optional)
Put everything in the liquidiser and blend for 20-25 seconds. Pour into glasses and drink. Michael Stallard, Oswestry.

Think you fir yor resippy.
Deve, Yo can luk again know! I hop their werent two meny spellin mistaks in this bit ewe aloud too cheque over.

MBT

## WHICH DOGOR?

Dear Sir, In Dalek Attack, on is box of Doctor: Sylvester, select from three chand two choices of assistants: Tom and Patrick andier. I am having difficulty Ace and a UNIT soldier. selecting these chas Clasgow.
Fraser Davidson, Fraser Davidson, Gily And Ace. In the C64 version you re stick in my opinion... Not a bad choice in my opinio

Patrick's having a sulk because he's found out he's not in the 64

#  Last month I held an impromptu telepathic 

 CF readers preferred. I flavour of Star Tre: and concentrate on oned. I asked you to look at tures and then to 'think of two Trekkie picWell, I sat, I concentrat your vote. the results, but the turntrated and I collated ning. Hence the result I hat was hardly stunwild one-sided affalt. I have calculated is a Trek - The Next Generair. The 'winner' was Starby 37 per cent majority. Thion which enjoyed be taken at face vajority. This result cannot wandered the streets of Bath seems Dave to 'think' false votes - Bath forcing people away with it too, except would have got too far. So, 'Kip' the pept that he went a bit Generation, eh? Dave, don't take the Next meration, eh? Dave, don't take the mick!

## GERM-FREE

Dear Brain,
Do you have any virus cures that are userfriendly? The tape supplied with issue 31 of your mag contained a virus. It replaced Odus on the tape (the intended program did not load). The result is that all the characters have been swapped around on the keyboard, ie pressing J produces JOJOJO etc. Games will partly load but they stop. Your tape was the only one I was using at the time.

This is the first time I have had virus trouble so it could not have come from my other games. So what I want from you is a solution. How do I beat a virus?
Ben Lenihan, Co Cork.
First let me allay some of your fears. Viruses, while feasible on an 8 -bit system, are all but unknown. Viruses, you see, are small independent programs that subvert computer systems. These programs hide themselves high in RAM and carry out their work - which can be anything from simple self-replication to damaging data.

As viruses are programs they can only exist when they are either in RAM or have been saved on to tape or disk. For a program to remain in RAM the computer has to remain switched on. Once the power is turned off, everything in RAM will be lost instantly and the virus erased. So if you think your machine has been attacked - which is highly unlikely - just pull the plug.

If - by some fluke - you did have some virused data/programs, then loading them again will 're-infect' your system. So if you're feeling really paranoid, then leaving your C64 turned off for about 30 seconds between using any two programs will make sure that infection doesn't spread!

Even if your system had become infected with a virus which was still active, it would not be able to permanently damage your machine. Your C64's system is stored on ROMs and there is no feasible way that a program could alter the information on them. It sounds more likely
that your C64 has developed a few problems. After leaving your computer turned off for at least 30 seconds, try loading one of your tapes that you KNOW loads. If the problems persist, you need to get your machine looked at by an engineer.

TMB

## THREE R's

## Dear TMB esq,

1 Why is Clur so childish? I am referring to her giving Spelling Fair (CF30) a Corker.
It's dispickable!
2 Will we have more programs like FROST?
3 What has happened to Agent Kittyhawk?
4 Why are you so fab?
Jaime Rodriguez, Dyfed.
1 Fact: Clur is childish. Fact: Spelling Fair deserves a Corker. Fact: Despicable doesn't have a K in it! Fact: You need Spelling Fair. 2 Probably. We were waiting to see what the response to FROST was, and so far it's been very positive.
3 She was working on a 'freelance' project near Highgrove House when a few of her tapes were discovered you may have read about it in the national papers. She is now avoiding Her Majesty's Finest and was last seen heading for Jakarta. We'll keep you informed of any developments 4 Must be natural talent, I
suppose. TMB

## WANT A FIGHT?

To TMB,
1 What is your favourite issue of $C F$ ?
2 Have there been any other
WWF games on the C64 other
than Wrestlemania and European Rampage?
3 Where do you come from?
4 How come WWF European Rampage has no tag team mode?
5 Is the C64 worth swapping for a SNES?
6 Do you have a first and last name? Jason Fabbri, Victoria, Australia.

1 Well I was a real big fan of CF1, I'm quite fond of CF17 but my fave to date has to be CF33. Although CF34 is growing on me. 2 There have been no other official WWF games. There have been loads of wrestling games but without the WWF glitz they really haven't made the grade.
3 Er, perhaps that's something you should really ask your mum.
4 The manual for the game is a multi-format
job, and so it did mention a tag-team competition. On the C64 this option wasn't offered. We did mention this fact in the review.
5 Not unless you're prepared to spend $£ 40$ on each game!
6 The and Brain.
TMB

## THE MEANING OF LIFF

Dear Mutated Orange,
I desperately need to get hold of Great Giana Sisters. If anyone out there has it, I'll pay (almost? - TMB) any sum for it! Now, some questions:
1 What about doing a book review for the trusty old C64 in your mag.
2 Are PD games only on disk? I read your article last month and was pleased to see


Now, for one month only, it's the fabulously amazing reader's chart, as compiled by Gareth J Ensor!
1 Emlyn Hughes International Soccer Touchdown
2 Silkworm
Mastertronic Plus
3 Bubble Bobble Hit Squad
4 Jack Nicklaus Golf
5 American 3D Pool
Accolade
Zeppelin Kixx
6 Leaderboard
7 Powerdrift Hit Squad
8 Continental Circus Tronix
9 Slicks
CodeMasters
10 Super Sprint Alternative
...And on the soundtrack front Colin Hales rates this lot as the best ever:
1 Outrun Europa Level 2
Kixx
2 WWF Wrestlemania title screen
Hit Squad
3 Paperboy in-game
Elite
4 Arkanoid 2 title screen
5 Fantasy World Dizzy
Hit Squad
6 Renegade in-game
CodeMasters
7 Short Circuit title screen Hit Squad Hit Squad
8 RoboCod demo in-game Power Pack
9 Turtles Arcade in-game Image Works
10 Turtles Arcade title Image Works

While Simon Hillam thinks that the best
CF Power Pack games work out something like this...
1 Zamzara
CF9
CF28
3 Uridium $\quad$ CF7
4 Park Patrol 5
5 Spindizzy
CF12
6 Monster Mash CF31
7 Mean Streak CF8
8 Crystal Castles CF7
9 Anarchy CF10
10 Blue Max

- BASE COLOUR FORMAT July 1993
that I could get some cheap good games. 3 Someone out there is into Hitchhiker's Guide To The Galaxy for I see proof all over your magazines like: Dingo's Kidneys, 42, Don't Panic and Lintilla.
A Person, Somewhere.
It's such a shame that if anyone does have GGS, they won't know where to send it! 1 What sort of books would you want to see covered - novels, techie manuals, cheat guides, the Hitchhikers scripts?
2 It all depends on the library. Some already offer tape as well as disk software and most of the others are gearing up to offer a tape option. Keep an eye on our PD Format page for full details of which PD Library does what. 3 Us, into Hitchhiker's? Outrageous! That's like saying Dave is into Doctor Who, or Ollie into black and white ' $B$ ' movie horror flicks! TMB


## SOLD GONE

Dear Mighty Brain,
Eighteen months ago I had a short period of madness. I sold my trusty C64 and bought a duff rival games machine! Realising the error of my ways due to the price of that machine's games, I soon wanted my excellent C64 back. But my mum said I would just have to live with my terrible mistake. Now I have re-purchased a C64 and have some questions for your most excellent mag. 1 How many base colours does the C64 have? 2 On Magic Land Dizzy how do I light the fire under the witches cauldron?
3 The C64 I purchased is an old model. So can I still play carts and use the Action Replay cart on it?
4 What is the difference between the C64GS and the C64? Also what is the difference between the C128 and the C128D? 5 Last but not least, do you shop at Tesco? Please, please, please, please, print this letter, my life depends on it!
Alex Jacobs, Aylsebury.
1 Well there's that yukky dark brown. Colours don't come much more base than that! 2 Wait and see. We'll be doing something for 'yolk' like you in CF36. So be patient and all will be revealed.
3 Why yes. If look at the back you'll find a slot marked Expansion Port. Your carts - of all flavours - should slot happily in here. 4 The C64GS was the console version of the C64. It could only load software from cartridge and had no keyboard (and, to be frank, was not a commercial success). The C128D was simply a C128 with a builtin disk drive. 5 No. I shop at Sainsbury's. It's conveniently on my way home.

One lifesaving deed successfully completed. TMB


Roger Frames, what a twerp eh? Do you think that you could lend him one or two of your brain cells? He certainly needs them. I love the colour grey. I mean you wouldn't want a yellow and green Rolls Royce, would you? Anyway on with the questions. 1 Could you give me the address and phone num-
ber of AFS? When Frames reviewed Midnight Residence none was supplied.
2 Do you think that there will ever be a
Rick Dangerous 3?
3 Acorn Computers - why?
4 Why wouldn't Thin Glue Align (TMB,
CF31) work?
5 What other games have AFS done? I liked Midnight Residence!
Philip Stephenson, Leatherhead.
1 Ring 0225 442244, ext 2347 and ask for Clare. 2 No. Rick Dangerous 2, while being a brilliant game, never sold that well. Since then Core Design have developed other characters (like Chuck Rock). These two factors mean that it's unlikely that we'll see Mr D again. 3 Because they could! And what about Acorn Antiques? Why, oh, why? 4 The producers of magnetic media try their very best to ensure that all tapes are of similar construction and that data is recorded at a similar level. However tapes suffer from 'fall-out', which means that over time the stored signals get weaker while the tape heads suffer from wear and tear. Gluing the heads in place would ensure perfect loading for a while, but as time took its toll the heads would need some re-aligning. If they were glued, then you'd be quite literally be stuck.
5 AFS (April First Software) have written hordes of games: Supercows, Stunt Boat Racer, SWAV, Creepers and Creepers 2, Monster In Mayhemland, Mizzie Prince Of The Old Folk, Garlic Attack, Leedfall Weedplan and, of course, the classic coin-op' racer WET LeMons.*

## RAINBOW NINJAS

Dear TMB,
Before I ask you these questions l'd like to say that your pages are the best in CF (you're obviously a very astute
fellow - TMB). Anyway, that's enough grovelling, let's get down to business.
1 Power Pack 32, what can I say? Not worth the tape it's recorded on.
2 I recently purchased Midnight Resistance and while it's loading it says, "Stop tape,
turn over and press Space or Fire". I've
done that and nothing happened. What should I do?
3 Is it possible to get past Level 1 on Navy Moves? If so, how?
4 Who writes the Power Pack instructions?
5 When will Lemmings be out for the C64?
6 Is Mayhem In Monsterland a Mario-type game for the C64?
7 Is the Addicted To Fun, Rainbow Collection any good? The Ninja Collection isn't. 8 Why can't you get Hudson Hawk anymore? I had it, but had to
 send it back for tape errors. 9 Will I get a prize for being the first person to send in more than ten questions since $C F 16$ ? 10 Is Big Box 16 any good? 11 ARNIE 1 - what a brilliant game. ARNIE 2 - what a rubbish game. 12 What is your favourite beat-'emup game that's available on the C64? 13 This is my last question.
14 Are you a balloon or a brain?
15 Do you like Frames? I only like the games that he reviews. Paul McBean, Dundee

1 We really rather liked it, especially FROST. 2 You didn't mention rewinding the tape to the start of side two. Give that a try.
3 Yes, but you need something akin to divine
intervention. The first stage - the one where the boat has to leap the mines - is absurdly tough. 4 It depends. They are mostly written by Clur, but occasionally Dave lends a hand. We try to keep Trenton away from the tape. He's easily confused you know.
5 Eventually.
6 From what we've seen - the Rowlands are keeping a lot of the game secret - Mayhem looks more like being a Sonic 2 basher. The game will be paced significantly quicker than the lumbering plumber's.
7 With Rainbow Islands, New Zealand Story and Bubble Bobble all neatly packed in a multicoloured box it has to be one of the best compilations ever seen on any computer format ever. All three are simply excellent. So yes, it ain't bad.
8 You sent it back for tape errors? So there weren't any and you wanted some. How odd? But seriously, check out our Modern Classics pull-out in this very issue.
9 Nope, just more answers!
10 Big Box 2 is good and Smash 16 is average. As to Big Box 16...?
11 ARNIE 1 was flawed but smart. ARNIE 2 was smart but flawed.
12 International Karate Plus.
13 Actually, that's a statement, not a question, I think you'll find.
14 Why would you be writing to a balloon? 15 How can the fact that Roger has reviewed it make a game any better or worse? TMB
 again!" (Cue spooky music and bad Doctor Who smoke effects). "You may have beaten me this time, Herr Doktor, but I, TMB will return to take my rightful place at the top of the letters page." Ensure TMB's return by writing in with your opinions, questions and very odd comments to TMB, Commodore Format, 30 Monmouth Street, Bath, Avon BA1 2BW.

## free ads! yes we sald Filf ads!

Bargains! Don't you just love 'em? But from next issue you won't find the best bargains amongst the ads in Uncle Dave's Buy-A-Rama, 'cos THE BEST BARGAINS ARE NOW THE ADS THEMSELVES! Yep, all small ads now cost nothing, zilch and completely zero pence. Not bad, eh? (Actually, we haven't cashed the cheques for any of the small ads we've printed). So now if you want to:

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- Sell or buy second-hand C64 games
- Advertise a user group
- Get in touch with pen pals
- Send birthday messages
- Pass on official state secrets in coded messages to the government of the CIS

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4 We reserve the right not to run an ad if it appears to contravene the spirit of the section.

So, if you want to advertise anything remotely C64-related $C F$ is the place to be.

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## TELEPHONE

Classification: Tick box; I For sale $\square$ Wanted Services User groups known by people too lazy to type Public Domain) is non-professional software, written by C64 enthusiasts and released with no copyright restrictions. It includes all sorts of software, including games, utilities (the serious stuff, that is) and demos (which exists for no other reason than to show off the programmers'

| Whaysway epecharlice techi tutorials and prociamming SHi Iaziculucy <br> ctaity: ME MILL REFER To SIE JBint or just plaik 'jame' on chip hith a pin labelled emabled yien this pin is aif a chip has a pin label then 'somethime' will happ this PIM IS LOM ( $=$ = ). of pil labeled tembile'? a ' 1 ' hill emable: |
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## KINGSWAY STATISTIX

Library's full name: Kingsway Computer Services (KCS for short)
Address: 72 Glencoe Road, Sheffield, S2 2SR Telephone: 0742750623
Software Available on: Disk only
Price per disk: $£ 2.99$ or ten for the price of nine! What Kingsway's good at and why: We keep a wide selection of software, not just demos (in fact we have very few demos). We major in serious applications - programming,

## HOW GOOD IS GOOD?

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Invision on this month's Power Pack. This funky little pinball sim is an example of what Kingsway has to offer.

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22 Lessons with timed exercises covering all aspects of the keyboard.

## 2 ASTRONOMY AND HAM RADIO

Catalogue no: E126
Over 25 programs for the budding Patrick Moore and over 20 for the HAM radio
fanatic (well, we can't think of a famous
HAM radio fanatic - Ed).

## 3 BIBLE QUIZZES

Catalogue no: E129
Pass your RE exam with ease. Quizzes
include The Temptation of Jesus and
Who Am I? (I don't know - Ed.)

## 4 PRIMARY MATHS

Catalogue no: E125

5 COMPUTER TUTOR
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A collection of educational programs dealing with computing programming.


## TOP FME Un M $1=3$

1 INFO FOR PROGRAMMERS Catalogue no: P500
Usetul utilities for anyone learning programming, and more besides.

## 2 BUSINESS AND ACCOUNTS

Catalogue no: B208
Over 20 programs which'll help you
take full control of their finances (can
we interest you Mr Clarke? ).

## 3 HOMEWARE

Catalogue no: M433
A calender maker, a home inventory, a
building materials calculator and loads
more stuff just like that.

## 4 GEOS UTILITIES

Catalogue no: GE902
A plethora of utilities invaluable to all GEOS users - yes even the Greek ones.

5 DISK DOCTOR UTILITIES
Catalogue no: U332
A superb menu-driven collection of 24 (count 'em) disk utilities - a must for every disk drive owner. tines have been written. All the levels have been started. Now it's a case of tweaking, refining, playtesting and squeezing in the last few ideas. John and Steve
and reaches the top he could take off for a short while (if he's going fast enough). So by the end of the week he could, and it looks well cool! If you time it right he doesn't even touch the top of some slopes, he just lands on the other side as he falls.
While I was tweaking Mayhem's movement routines (for what seemed like the millionth time) I though I might as well carry on. The next thing to add were the 'springboard monsters'. These are beasts that won't kill Mayhem if he runs into them, but they will make him bounce he gets flung into the air, then looking down as he falls back towards the platforms).

## Rowlands are getting so excited about Mayhem In

to incredible heights. So I coded this routine and included a cute bouncy sound effect as well. The idea seems to have paid
lot of this week preventing them from wrapping around the screen (vanishing off one side and appearing on the other) while Mayhem walks left to right. Testing these routines involves a lot of running around and checking that the monsters didn't reappear. So Mayhem has spent most of this week charging up and down dozens of slopes in Pipeland (but then, that was what he was born to do).

All this off as it looks really cute (you can even see Mayhem looking up as because Mayhem In Monsterland is an origina game we have no set guidelines to follow. The advantage of this is that we can use our imaginations to the full and add whatever we want (any way we want to). Having said that there are disadvantages; the game takes longer to develop as we have to come up with dozens of ideas, some of which will be discarded along the way (whether due to memory limitations, processor limitations or just because they were lame).

Another disadvantage is that whatever we do design is constantly being tweaked. The game is never finished until it's finished. MIM is approaching the stage where the essential routines and graphics are nearly finished, so now we're spending most of our time adding new ideas to enhance the gameplay and adjusting existing ones. But that's where the joy of creating games, as opposed to converting them, is to be found.

## AMESOME APRH

WEEK ONE
JOHN All my attention is focused on the monster enemy sprites at the moment. I've spent a Monsterland now that we virtually had to force them at gun point to write this month's dilary.
ome of you might be thinking by now, "I wish those Rowlands would get on with it"" But we have got an excuse for taking so tong over Mayhem. Honest. Y'see
Remember Cyberdyne Warrion?
Creatures? Creatures 2 ? What's the lint liant and they were all written they All brilNow The Apex Boyz, John and Stevex. Rowlands, are writing a new and Steve Mayhem In Monsterland, new game, promise you - it's going to to we can

are-


STEVE The graphics for the levels in MIM seem to be in need of neverending alteration. This week I decided to try and get Pipeland into a near-finished state so that I could put it into the new happy/sad editor (which takes the happy version of the level and turns them all gloomy). I've added some large blue and white chequers to go in the background of an enclosed part of the level (which looks a bit like a big room). These rooms used the bricks that were already in the level to form the walls. I thought the whole lot looked quite cool (in a consoleesque sort of way), but John thought otherwise. So what happens when I want to do one thing and John wants to do something else? No, we don't beat each
mapping system. Once I had sketched them down I had to test them (the fun part). I don't want to type in the new mapping system untested only to find that it has a major design fault, so another day was spent testing (and adjusting) the flow charts. The rest of the week was spent typing in the new system, then testing it for real. Yes, it did contain a few bugs, but it doesn't now. The only down-side is that, like most of my previous scroll-related systems, it only works one-way. So next week I've got to get it working when Mayhem walks left as well (snore).

STEVE I thought that having all these different levels on-the-go at the same time was a good idea, but the simple fact that all the levels need finishing lines had slipped my mind. What this means is that I needed four characters in the same position in each character set. because there need to be two finishing lines on each level, one for Happy and one for Sad, both using two characters each. On the Sad version, when Mayhem reaches the finishing line he will fall through the platform to a chamber below to... ah but that would be telling. Consequently two of the characters also need to be the sort that Mayhem can't walk or fall through.

Y'see, Mayhem treats different characters in different ways - and we don't mean that he asks some of them out for a pint while turning his back on others and ignoring them. We're talking characters as in 'character sets' here.

There are three different types of characters: ones that stop Mayhem (used for walls and some platforms); ones that Mayhem can jump up through, but land on and walk along (used for other platforms); and ones that Mayhem can pass through (used for the backgrounds). We have two bytes per level to change the amount of characters in each of these sections for that particular level. So if we wanted 40 characters Mayhem can't go through, 13 characters he can jump through and the rest of the character set as background graphics, I would set the first byte to 40 and the second byte to 53 . This gives us three sections in the character set: 00-39, 40-52 and 53-255.

So for the finishing lines, two of the characters would be in the first section and two in the last. At the moment, however, most of the characters in all the sections have been used, which means III have to go through all the levels swapping characters around (to coin a phrase - snore!).

## WEEK THREE

JOHN Who's still working on a monster sequencer, then? Me, that's who. Who's
bored senseless with his monster sequencer, then? Me, that's who. Looking back at the diary, I can't believe how long it's taking. It's definitely stormed to the top of my 'systems which take a ridiculously long time to code' list. Well, let's face it, the list itself is pretty ridiculous. I suppose I have been side-tracked, and done several other things since will need to be in the Issaracod A Ampway. moaning about it won't get the job done (there's a moral in there somewhere).
So back to my monster sequencer. As you'll remember, last week I finished it, but there was a slight hitch; Mayhem could only run to the right. Obviously he's going to need to run left as well, so I have to write another set of routines to cope with this (which, coincidentally, is what I spent the majority of this week doing).

First I created a few flow charts (like the one below), tested them, then typed them up. The rest of the week was spent testing, adjusting and retesting them. Now I have a rather sexy bi-directional monster sequencer which is

## Cownilititew


only missing a few routines which will handle certain ideas we want to put into the game at a later date (more on those when we do them).

STEVE It's about time I did some serious aliens, single and multi-sprite ones. The first thing to do is to get lots of ideas on paper, then convert them to pixels. I go about this by looking at the level graphics and the rough maps I've done, then deciding on what sort of aliens are needed for each particular terrain. For example, if we have a water section (which we're actually planning) we would need fish and other squidgy underwater adversaries.

The sketches I now have include a baby dinosaur called Dino, a monster with a spikey shell on his back (that will kill you if you touch it) and a giant mole-type monster (look out Chesney Hawkes). I then proceed to convert these few ideas to see how they will turn out. Pixel perfection plays a primary part for pretty predators in this program so a lot of our aliens are amazingly animated (©) Alarming Alliteration). But having done the first few aliens, walking and all, I realize that the cast of bad guys will need to be in the twenties at least.

## WIEK FOUR

JOHN The game is getting to the stage where we find ourselves playing it when we should be working on it, which is always a good sign. This not only means it's getting

## WHatmamber

Just in case you haven't been paying attention, here's a quick resumé of what Mayhem In Monsterland is all about:

- Mayhem is a cute dinosaur.
- He Lives in Monsterland. (Okay, noth-
ing surprising so far.)
- Monsterland is not a happy place. It's all grey and rains all the time (a bit like Port Talbot, really).
- Mayhem has to make Monsterland a happy place once more.
- He also has to collect bonus stars and duff up a few enemy monsters.
- There's a brilliant VR sequence where Mayhem battles amazing slow-moving creatures made up entirely of triangles... and (er, maybe not). - But, no kidding, this game is going to set new standards not just for the 64 but for platform games everywhere (how's that for a build-up?).
more and more playable, but gives us the opportunity to playtest it as we go along. The one thing we've noticed is that while each level is 25 screen long, it seems much less.

This is because of the sheer speed of the game. If it was possible for him to charge from one end of a level to another (which it won't be in the finished version) it would take about 20 seconds. For reference, Clyde Radcliffe (from
 Creatures and Creatures 2, obviously) would take about two minutes 40 seconds to run the same distance.

To combat the map length problem we've come up with a technique which allows us to produce massive maps. It effectively lets us re-use parts of each level to give a long enough map for Mayhem to traverse and is basically what I've spent all week doing. I thought it would only take a day, but due to the structure of

the scroller, it turned out to be a lot more complicated than I first thought it was going to be ah well, no change there then.

STEVE So far the game has no underwater sections, mainly because we thought of the idea only recently. Most of the levels have now been started and their character sets almost completely used up ... except Spottyland!

As well as water on Spottyland we can now include underwater slopes (oooh!). It goes without saying (no it doesn't, you're just about to say it - Ed) that Mayhem's control mode will change when he's underwater, slowing down his speed and making bubbles appear instead of smoke when he skids. Mayhem's sound effects change to bubbly ones too, to make the underwater atmosphere just that little bit more... er... underwatery.

The water is in a part of the level that has a chequered background - below the water surface everything gets darker (as it would). This section uses some nice new colours above and below the water which are mixed up using our special methods explained a few issues ago. A selection of platforms used in Spottyland (that also appear above the water sections) have been duplicated for underwater use.

To make them look submerged in water I used a manual colour addition technique giving them a blue tint. This is quite effective and does actually make the whole lot look, sort of, underwaterish. In fact, the graphics came out looking so good, they even surprised me (modest, isn't he? - Ed).

Once we've tweaked Mayhem's control mode for the underwater sequences and included the necessary colour splits, it should look pretty amazing (especially for the humble C64). Hold on a moment - maybe we should rename the game Super Mayhem In Monsterland? Ahem.


May is going to be a mega month for Mayhem. Not only will more monsters be created, but more monster features will be added. So tune in next month for another monster installment.


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10 level of top－notch beat－＇em－up mayhem with the heroes in two shells（four half shells）．We gave it a mighty 89 per cent when we reviewed itt RRP $£ 10.99$

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Thalamus（Cassette） It＇s nasty，it＇s bloody，it＇s sick and your mother would like it if you were Pugsley Addams． Tons of platform action that demands brainpower as well as razor－sharp reflexes． RRP 10.99

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## 2 superb

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#### Abstract

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- What's available O How to get it O Who to contact Its all in the complete C64 directoryb



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(0582) 491949 - (4 lines)

The Commodore 64 1st team (a few of the reserves also appear in these pages).

can be found. That's why we've assembled our Modern Classics pullout spectacular! In this special section we've detailed every C64 game (tape, disk and cart) currently available in the UK. From these we've selected the very cream of the current crop, named some notable near misses and giggled weakly at some of the very worst for each gamestyle.

Picking the best from such a vast range of games wasn't as easy as we first thought. Which is why we enlisted the very best Commodore brain's available - the CF crew PAST and PRESENT! And now, after hours of debate, squabbling and name calling, CF is proud to present The Modern Classics the best games money can buy!


At the end of every review in this pullout and with every entry in the 1,000 -plus games list at the back we tell you where you can get hold of the games. Of course, some of them are still available in the shops, but the majority of them aren't. So we 've concentrated on other ways of buying games: 1 Mail order - some games we've suggested you get some specific mail order companies, but others are 'generally available' - this doesn't mean they're available in every computer shop up and down the country, but it does mean you should be able to order them from most C64 mall order companies (we just don't want to show favouritism, you see).
2 Most software publishers are more than happy to sell you games direct - as long as they've still got them In stock, that Is. In the mega-list at the back of the special we ve indicated which publishers still have which games. If they ve got one you want, give them a ring. state clearly and succinctly what you want and they'Il be able to tell you how to go about ordering stuff. But remember, actually selling games is not a publishing company's main business, they're busy people, so be polite and concise if you ring them.
grow cen also get cotimare from eDos when ts asper Which er... well, which needs a boxout all to itself mealy



- The complete C64 games availability index p. 22 - 24


EDOS (Electronic Distribution Of Software) is a solution to the problem of software shop-shelf clutter, which offers a massive choice of 370 different C64 titles. You'll find it available in Menzies and a few other independent retailers, and it's dead smart. Instead of readyduplicated disk and tape versions of games on the shelves, you'll find empty boxes showing what's available. You choose want you want, take the box to the counter and they duplicate your personal copy of the game on the spot.

Individual dupe'ing means that the game will be a high quality copy and also that the shop will never run out of any game. The game code is all stored on a large hard disk in the shop and then the relevant data is copied off on demand. It's altogether a very civilised way of buying games.

All the games available on EDOS are listed in our complete games guide on p.21-24 (they're the ones marked E, with T and D used to show Tape and Disk versions). For more info, check out your local Menzies or give EDOS's creators, Software On Demand, a ring on $=0782566566$.



## BUBBIE BOBBIE

(Silverbird)
Originally released: 1987 Long before they grew up and discovered Rainbow Magic, Bub and Bob were turned into Bubble Dragons by an evil wizard. To return to normal they had to enter a monster-filled cave and rescue their sweethearts. But forget this sub-Walt Disney syrupy nonsense and just get on with the game, which is brilliant (and the prequel to Rainbow Islands). Basically, you try to trap the nasties in bubbles, then burst the bubbles for points. You want addictiveness, you've got it. It may be ancient, but it's still far superior to most games released today.

 (Hit Squad)
Originally released: 1989 This has been one of the most popular games ever on every format on which it's been released. Bub and Bob, the heroes from Bubble Bobble, return to, er, shoot rainbows at nasties and reach the top of the each level. It's a deceptively simple premise
that's the basis of one of the most gloriously playable and colourful games ever. There are pick-ups and bonuses galore plus some of the toughest end-of-level guardians you'll ever face on the C64. Generally available

## NEW <br> zanand STORY <br> (Hit Squad)



## Originally released: 1991

This has to be one of the weirdest concepts for a game ever. I mean, New Zealand's hardly the most thrilling place on the planet, is it? But against all odds, New Zealand Story is a darned funky game. You take control of Kiri the Kiwi (okay, that registers eight out of ten on the pukesome scale) who has to flutter, leap and pilot a flying thingy around numerous levels trying to rescue his Antipodean chums. It blends colourful graphics, fast-paced action and totally fabulous music into a perfectly balanced, no-nonsense platformer of the first degree. Generally available




## BATIS CoMMAMD (Ocean)

## Originally reteased: 1991

Battle Command comes on cart, so loading's fast and the game's huge. A solo-super tank is yours to take on a series of increasingly tough missions. There's search and destroy, sabotage, surveillance, rescues, everything, in fact, a tanker could wish for. Running in slick 3D this is the ultimate battlezone for folk who want to find out what it's really like to be in a metal box when it's hit by high explosive! Generally available.



## R31 2

(Hit Squad)
Originally released: 1991
Come on. Own up. Has anyone ever actually seen a copy of RBI 1 ? Did it even exist? It's one of life's great mysteries. But what the heck when we've got $R B / 2$ which, logic suggests, must be the superior of the two. Baseball on the C64 has never been better. RBI 2 is smoother than a cream in a Twinky © with the kind of control system that a partic-
ularly dim amoeba could understand. But don't reckon that makes it too simple, no siree, no way. Played against the computer RB/ 2 s rewardingly challenging, and better still against a friend who's as good (as rubbish) as you are. Generally available


## 16 PULL-OUT <br> LISA KELITT <br> (CF30 NOW) <br> $\square$ mm, l'm not $\quad$ sure how I ended up hosting this sec-

tion. I haven't even got a driving licence. The nearest I get is when I drive people round the bend by nattering on about all the latest goss'. By the way did you know that Trent.. (snipl - Ed). Anyway, I feel honoured to have been asked choose my five top racing games (though I suspect it has more to do with Roger being in the US and Sean Masterson having vanished off the face of the Earth). And here they are starting with... what was it Trenton? (Psst! Lotus Esprit Turbo Challenge - Ed)... So it was!

## OUIRUN EUROPA

(Kick Start)
Originally released: 1991
This was the third game in the Outrun series (following Outrun and Turbo Out Run) and the only one not to be based on a coin-op. It's a mad dash across Europe using all sorts of vehicles - a Porsche (ooh, definitely my type of car), a motor bike, jet skis - in a bid to recover some stolen documents from Germany. It's a slick, stylish game with a plot that adds an edge to the high-speed action and the different vehicles you get to control keep the gameplay fresh.



Originally released: 1991
One of the best-selling games ever on the C64, LETC offers one of the most exciting twoplayer modes around. But that's not the only impressive thing about the game; how do 32 increasingly difficult tracks grab you? Or what about the options for manual or automatic gear boxes and three difficulty levels? And if that hasn't convinced you, the fact that the action is stupefyingly fast, the graphics are mightily impressive and the control system is about as responsive as you could hope for
should. Lotuses are such sexy (hrrumph! - Ed) cars they deserve a game this good. Available from Software City

(Kixx)
Originally released: 1989 This bears about as much resemblance to reality as an episode of Neighbours (especially the one where Daphne gave birth with her knickers on), so you can't exactly call it a sim. But blow realism, this is the most amazing driving experience you can have on the C64 You drive a reinforced buggy around a bumpy, twisty and frankly very dangerous circuit net. If you go off the side it's straight down for you, matey - there's no corner cutting here. Stunt Car Racer is fast, addictive and exhilaratingly challenging action all the way, but then what else would expect from the programming genius that is Geoff Crammond? Generally available
that's a few hundred feet up in the air, all without the aid of a safety




## JAMES LEACH (CF18 - CF26)

computers take the work out of Fantasy and Role Playing Games, which is just as well because when it comes down to it I'm a lazy so and so. When you play these games for 'real' they're a mass of tables, weirdly-shaped dice and poncey elves called Barry. Your C64 can do all that for you, leaving you free to explore. Oh, and keep a reasonable map. Oh, and pay attention to every single detail. And not name your ranger Barry!

## LORDS OF MDNIGEII

## (Julian Rignall's Top Ten)

Originally released: 1985
Time's not been kind to Mr Midnight. Eight years of advances in graphics make poor Lord looking deeply sad, if not clinically depressed. In eight years, though, few games have even come close to Ofs level of absorbing gameplay.

Mike Singleton's classic graphic adventure (one of the very first, in fact) sets you up as a warrior Lord who must use his minions to capture, conquer and other things beginning with C the world. It may look bloomin' 'orrible, but it's still brilliant to play!
Generally available.

## 캐II $=$ (Rainbird)

Originally released: 1985
Okay I know that Elite isn't strictly an RPG, but what other category would it live in? (And we really wanted to recommend it somewhere.) It may look like a flight sim but you fly through space. It may look like a strategic trading game, but you get involved in laser duels. The fighting may make it seem like a shoot-
missions to complete. Elite basically

'em-up but there are huge
 has it all. It creates a wire-
frame universe in which you can a pursue a career of either good or evil. It develops slowly but is worth the wait! Generally available.
alien graphics right in your face!
Generally available.
(Virtual Worlds Compilation) Originally released: 1988 Somewhat foolishly you've allowed yourself to be beamed on to a mining planet which is just about to explode. The only way to stop it is to position a series of rigs that will safely vent the planet's rising gas levels. Sculpted in Freescape ${ }^{\mathrm{m}}$, this game has you flying around the massive, deserted buildings and it's real spooky. And thanks to the 3D effects you get both beautiful gameplay and atmospheric






## FREF, GRATIS, <br> FOR NOHINS

If you've tried everywhere and no one seems to have heard of that game you desperately want, then we have the answer. Starting next month we'll be running free reader ads in the mag. Turn to this month's TMB (page 29) for more details.


## IT'S THE KEY-TYPE THING

\(\left.\begin{array}{ll}E \& Available from EDOS <br>
P \& Available from the publisher <br>
C \& Available on a compilation (followed by the name of the <br>

relevant compilation)\end{array}\right\}\)| Amma | Available from Amma Software |
| :--- | :--- |
| Wizard | Available from Wizard Games |
| City | Available from Software City |
| Direct | Available from Direct Software |
| G | Generally available from most mail order companies <br> /T |
| Available on cassette (well, we've already used C for <br> compilations) from that supplier |  |
| /D | Available on disk from that supplier |
| /Cart | Available on cart from that supplier |



If you're ever offered illegal software make a mental note of who offered it, where and when. When you get home contact The Federation Against Software Theft (FAST) at 2 Lake End Court, Taplow, Maidenhead, Berkshire SL6 0JQ = 0628660377.

## PIRATIS OFF THE STARBCARD BOW, STR





## MAL ORDER BUYING GUIDE

Thinking of buying your games through mail order? Worried about sending money for products you haven't seen? Don't panic. Follow our simple guide and you won't get caught with your pants down.
1 If you're ordering over the telephone, before you talk to the company write down the order numbers of the games that you want to buy and jot down a list of questions that you want to ask.
2 Never, ever send cash through the post. If possible use a credit card 'cos it's likely to give you some sort of insurance coverage.
3 Phone before you send off any money to confirm that the company has the stuff you want in stock.
4 When you talk to them check delivery times and charges, and ask about the company's refund policy. Also check that there's no hidden extras like VAT or postal charges.
5 Beware of any company that always has an answering machine connected to it phones and or that doesn't give an address in its advert. 6 Keep records of any correspondence you have with the company. Write down any information they give you over the phone and make a note of when and where you originally saw their advert.
7 If a problem does rear its head ten the first thing to do is contact the suppliers. Be calm and explain clearly and politely what's gone wrong. Most problems you have will be simple human errors and can be sorted out there and then.

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# CMME:US 

## CAULDRON 2

Power Pack 31
Richard Beckett is back again, doing what he does best - solving our troublesome Power Pack games. If you'd like to succeed on this massive arcade adventure, read on. Oh, and L is go left, R is go right, U is go up and


Out of the frying pan and into the Cauldron.
collect the remaining diamond to complete the first level.

LEVEL. 2 Blow up the skull nearest to you, then run round the passage created by the

Dis go down in case you were wondering. First off, start and quit the game until you're at the screen with the table and the pig's head. There are four different starting positions, but this is by far the easiest. From here: L © collect BULLETS $\bullet L \bullet D \bullet L \bullet D \bullet$ collect first MAGIC OBJECT $R \bullet R \bullet$ hit SWITCH to raise lift $\& \bullet R \bullet U \bullet L$ $\bullet L \bullet L \bullet U \bullet R \circ R \bullet R \bullet R \bullet$ climb on to higher plattorm $\bullet L \bullet U \bullet L \bullet L \bullet U \bullet R \bullet R \bullet$ collect second MAGIC OBJECT • U • L • U • $R \bullet R \bullet R \bullet D \bullet R \bullet$ collect third MAGIC OBNECT $\circ L \circ L \circ D \circ L \circ U \circ L \circ U \circ U \circ R$ $\bullet R \bullet U \bullet L \bullet L \bullet$ collect fourth MAGIC OBJECT $\bullet L \bullet L \bullet U \bullet U \bullet L \bullet$ collect fifth MAGIC OBJECT $\bullet \bullet R \bullet U \bullet U \bullet U \bullet U \bullet R \bullet U \bullet$ hit SWITCH to raise lift $\circ U \bullet U \bullet U \bullet U \bullet U \circ U$ $\bullet$ collect the final!) MAGIC OBJECT $\bullet D \bullet D \bullet D$ - D • D • destroy the EVIL WITCH HAG BEAST with the magic objects to complete the game.

## SNARE DEMO Power Pack 31

As you might have predicted, here's the full solution to our mouth-watering demo, lovingly carved out of the finest Beechwood by York's very own Richard Beckett. LEVEL 1 First, blow up the bomb behind the left skeleton (on the top row of the screen), then go to the top-left of the screen to avoid the explosion. Collect the four diamonds from the bottom-right comer, then blow up the remaining skull and avoid the explosion. Move to just above the detonator, eat the strawberry to your right, then collect the diamond

trom behind it. Finally,

## WELL, WHAT

 DO YOU KNOW?There's a much sought-after software voucher up for grabs each and every month, awarded to the sender of the finest tips, POKEs, maps, and cheats. If you'd like to win one of these vouchers, and maybe some extra goodies, send your maps, tips, solutions, POKEs and swiss rolls to: Andy Roberts' Gamebusters, Commodore Format, 30 Monmouth Street, Bath, Avon BA1 2BW
skulls. When you reach the end of the passage, the blocks around the diamond will have been blown up, so collect it to complete the level.

LeVEL 3 Collect the two diamonds and hit the right detonator, then go up through the gap. Collect the next two diamonds and hit the right detonator. Go up through the gap and hit the bottom-left detonator. Now collect the rest of the diamonds to (wait for it) finish the level.

LEVEL 4 Collect the right time blocks, then push a strawberry up to get to the centre section of the screen. Blow up the skull bomb to destroy the two enemies, which creates a clear path to the diamonds - collect them to complete the penultimate level.

LEVEL 5 Rather than try to discover which time blocks fill up your time, just collect the diamonds and avoid the three enemies which are released when the time runs out. And that's the demo complete!

## ACION REPLAY POKFS

Here's a rather cuddly collection of Action Replay cartridge POKEs courtesy of the hard-working Richard Beckett. To use them, freeze the game (ideally on the title screen), press E to enter the pokes, then restart the 8. game using F3.

## SNARE DEMO

poks 33752,173 - Lives

## CAULDRON 2

POKE 33012, 165 - Infinite lives POKE 36152, 255 - 255 lives
POKE 37633, 165 - High bounce POKE 38716,189 - Slows animation

## SUBTERRANEA

POKE 4434,181 - No enemies
POKE 3069, 200 - Turbo boost
poks 3069, 123 - Wobble levels
ARNIE 2 DEMO
POKE 44846,173 - Invincibility
POKE 35860, 173 - No enemies


#### Abstract

Skill, accuracy, speed, intelligence... you need all these to be a champion gamesplayer. On the other hand, you could just cheat and read Gamebusters every month instead...


## RECULARS

 TIP OFFThe pick of the hints, tips, cheats and solutions sent in by you lot.
SOS
You write in with gaming problems. We answer them. You look stupid. We look intelligent. What a wonderful concept.

## LISTOMANIA POKERAMA

Er , some more listings and things.

## MAPS AND SOLUIIONS THE SIMPSONS 56 <br> LETHAL WEAPON 60 STEEL

## THE OTHER GAMES BUSTED THIS ISSUE...

| Amazing Spiderman, The | 64 |
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off the garments, which will cover up the purple objects underneath. Incidentally, the bush below you at this point conceals a special treat - jump up in front of it to reveal an extra life.

Head right, spray the trash can, then use it to jump up on to the window ledge. Collect the spray can, drop down, and go right. Jumping over the mutants is tricky, so take care. When you reach Tool World, go inside and buy a wrench. Leave the shop, then use the wrench on the fire hydrant - the water jet will wash away the WET PAINT sign. Oh, and don't forget to spray the fire hydrant as well.

Jump on to the window ledge, jump left on to the top of the door (which is tricky, so keep trying), jump right on to the top of the window, then jump up on to the very top window ledge. Spray the plant pot, jump right on to the next

GAMES TIPS
57
window at the far right of Candy Dandy. Jump left and knock over the paint can (which, handily, will cover the purple canopy), then jump left over the mutant and spray the plant pot. Drop down to the pavement, go right to the trash can again, then jump up on to the window ledge to the right. Jump right again, spray the plant pot, then drop down to the pavement. Stand on the bottom window ledge of the pet store, face right (so that Bart's head is almost touching the $P$ of the shop sign),
of the building - fire a rocket towards the sign to make it red. Now head to the right, sneaking under the mutants (they're not very alert). Continue right towards the next building, run under the mutants, then face left - if you can fire a rocket to hit the centre of the yellow sign (above the doors) you'll earn an extra life. Now go to the right and spray the next bird bath (which requires very precise timing). Continue right, dodging mutants as you encounter them. Whenever you see a purple window, fire a rocket at it (if you've followed this solu-
tion to the letter, you'll only need to shoot two of the windows). That task complete, run to the right where Nelson's waiting. If you've managed to spell out MAGGIE during the course of the level, she'll be waiting here to help you out. Stay at the left of the screen, firing constantly at Nelson. When he fires at you, jump to avoid

window ledge, then do a super jump to reach the first window of Mel's Novelty Hut. Spray the plant pot, jump right over the mutant, then jump right again and collect the extra life.

It's time for another super jump to leap across to the first window of the Toys'n'Stuff shop. Spray the plant pot, jump to the right, jump to the right again (over the mutant) then collect the spray can. Drop down to the pavement and go left into Mel's Novelty Hut - buy a cherry bomb (which is a type of firework - CF's resident expert on all things US, Clur) and six rockets. Leave the shop and head to the right, spray the trash can and then jump up to the
then fire the cherry bomb, which should, with any luck, scare away the purple bird. Now go right until you reach the statue. Stand one paving stone away from the base of the statue and fire a rocket to scare away the purple bird. Now head to the right, jump over the barrier, on the skateboard and prepare to jump over several sets of Scottie dogs and writhing mutants. When you reach the next barrier, jump over it to leave the skateboard section.

Go right and spray the bird bath, then continue right until you reach the Bowlarama. Sneak under the mutants and stand at the right
his bullets. When Maggie fires a bullet, jump up to head-butt it towards Nelson. Keep calm, and you'll be off to level two in no time. But that's another story which, by some strange coincidence we'll be telling you all about in issue 36 (there's the SOS Spesh née the Sam's Corner Spesh next month).



## GAVE OUR SPRIES

Lives are in peril! It's a dangerous situation! But don't dial 999. Send for the CF tip squad. THE AMAZING SPIDERMAN Empire My special spider sense warns me that Adam Warne, Billy Rowbotham, T Malone, M Gannon and Alice Dockeray are all in need of an infinite energy listing.
0 REM SPIDERMAN CHEAT BY WAZ
1 FOR $X=336$ TO 385 : READ
$\mathrm{Y}: \mathrm{C}=\mathrm{C}+\mathrm{Y}:$ POKE $\mathrm{X}, \mathrm{Y}: \mathrm{NEXT}$ 2 IF C $<>5569$ THEN PRINT "DATA ERROR": END
3 POKE 157,128:SYS 336
10 DATA $032,086,245,169,032,141,085,003$ 11 DATA $169,104,141,086,003,169,001,141$ 12 DATA $087,003,076,167,002,087,065,090$ 13 DATA $072,234,169,000,141,032,208,173$ 14 DATA $173,008,201,229,208,005,169,096$ 15 DATA $141,173,008,234,234,104,044,013$ 16 DATA 220,096

## 

Wayne Wallwork and Darren Louth wrote in for a cheat ages ago, so it's about time we printed one. On the title screen, type DEBBIE and the music will change - you can now start the game with infinite lives. Cheers to Warren Pilkington for that little tip.

## AVENCER Gremlin

Here are some ever-so-handy tips for this hectic arcade adventure especially for D Parlett, Gary Thompson and Neil Fisher. This is the order in which to collect the objects: - The container that holds the Poison of Nil - The Orb of Protection

- The Metal Bar, which can be used to open the grills

Spiderman, an honourary member of the Avengers.

## IN DISTRESS?

Having problems with a game? Then the CF life-savers are here. Jot down which game you're stuck on (along with the name of the publisher) on a postcard or sealed-down envelope and tell us what type of cheat you'd prefer. Include your name and address and post the whole lot to us at SOS, Commodore Format, 30

Monmouth Street, Bath, Avon, BA1 2BW.

## LITLE COMPUIER

PEOPLE Activision
If you're having a little trouble communicating with your LCP, or if you don't own a reset switch (in which case the listing in CF28 is a little redundant), here's the complete vocabulary list. Sorry about the Americanisms, y'all..
ADD • ADDITION • ALLERGIC • ALLERGY • ANA GRAMS • APATHETIC • APPEAR • APPEARS • ATTENTION • AWFUL • BEDROOM • BOOGIE • BORED • BOWL • BRUSH • BURN • CABINET •

CAN • CARD • CARDS • CHAIR • CHILLY • CLEAN $\bullet$ CLOSET • COLD • COMMODORE • COMPUTER • CONFIDE • COOLER • DANCE • DISH • DIVIDE • DIVISION • DO • DOG • DRESSER • DRINK • DUST - ENJOY • EXCUSE • FEED • FEVER • FILING • FILL • FIRE • FIREPLACE • FLOSS • FLUID • FLUIDS • FREEZER • FRIDGE • FUGUE • GAME • GET $\bullet$ GLASS • HANGMAN • HANKY • HATE • HEAR • HELLO • HEY • HOME • HOMEWORK • HOUSE • HYGIENE • IF • IGNITE • IMBIBE • IN • INSIDE • IS - IS • IVORIES • JAZZ • KEEP • KITCHEN • LETTER • LIGHT • LIKE • LIKE • LIQUID • LIQUIDS • LISTEN • LOG • LOGON • LOOK • LOOKS • MAKE - MATH • MATTER • MESSY • MOON • MULTIPLI-

- The Enchanted Rope (from the Monks). - Now go to the grill above the sleeping Monoric, fall into the room and grab the sword. - Find the Manse (the flashing Monk) and touch him
- Seek out the Iron Fist. Touch the man standing next to the Horse Shoe, then collect it.
- Now go and find the Scroll
- Finally you need to find the exit, which is north-east of the main entrance.
- Once you've carried out all the tasks, go to the exit where a bridge has magically appeared. Cross it to finish the game.


## A: Domark/Hit Squad

Here's a petite listing for infinite demerits, as requested by Terry Watts, Paul Swift, Matthew Nowers and a chap called Streaky. Simply type it in, SAVE it for any subsequent use, then RUN it.
0 REM APB CHEAT BY WAZ
1 FOR $\mathrm{X}=528$ TO 556: READ Y:C=C+Y: POKE
$\mathrm{X}, \mathrm{Y}:$ NEXT
2 IF C $<>2679$ THEN PRINT "DATA ERROR": END 3 POKE 157,128:SYS 528
4 DATA $169,029,141,040,003,169,002,141$ 5 DATA 041,003,032,086,245,169,150,141 6 DATA $027,001,169,125,141,029,001,169$ 7 DATA $188,141,030,001,096$

## GPMIINC MIACE Hit Squad

David Scoffin is nothing like the 'spitting image' of a champion gamesplayer (mega-groan - the rest of the CF crew) so he'd better try his luck with this mighty Martin Pugh listing for complete and total invincibility (and isn't the new series downright appalling? - Ed).
0 REM SPITTING CHEAT BY M PUGH
1 FOR $X=517$ TO 571 : READ $\mathrm{Y}: \mathrm{C}=\mathrm{C}+\mathrm{Y}$ : POKE $\mathrm{X}, \mathrm{Y}: \mathrm{NEXT}$
2 IF C $<>5529$ THEN PRINT "DATA ERROR" : END 3 POKE 157,128:SYS 517
10 DATA $169,018,141,040,003,169,002,141$
11 DATA $041,003,032,086,245.169,032,141$
12 DATA $178,002,169,002,141,179,002,096$ 13 DATA $072,077,080,169,032,141$,
222,003
14 DATA $169,051,141,223,003,169$, 002,141
15 DATA 224,003,032,069,003,096, 238,032
16 DATA $208,169,173,141,135,014,096$

CATION • MULTIPLY • MUSIC • MUTT • NIGHTSTAND • NOTE • ON • OPEN • OUGHT • PARDON - PERFORM • PET • PIANO • PICK • PLATTER • PLAY • PLAYING • PLEASE • POKER • POLLEN • POOCH • PROBLEM • PROBLEMS • PROGRAM • PUT • RECORD • REFRIGERATOR • RELAX • SEEM • SEEMS • SERENADE • SHOULD • SHOW • SLOPPY • SONATA • SONG • SPIN • START • STEREO • STORED • SUBTRACT • SUBTRACTION - TEETH • TELL • TICKLE • TIDY • TIRED • TROUBLES • TRY • TUNE • TURNTABLE • TV • TYPE • UNTIDY • UP • UPSTAIRS • USE • UTILITIES • WAR • WATER • WHAT • WHATS • WILL • WOULD - WRITE • YOU •


## POLICE STATION

From the start: Shoot terrorist • get ENERGY • go right • shoot terrorist • collect AMMO • go right • get FIREPOWER • go right • get ENERGY • right - shoot terrorist • collect AMMO - go right • get AMMO • go left • jump up on to lift and go up to next floor - left - shoot bomber and terrorist • collect ENERGY • go left • get ENERGY • left • kill terrorist - collect ENERGY - go left • shoot bomber - left - kill bomber - jump left over gaps - collect AMMO and FIREPOWER • go right to the lift • get on lift and go up to the next floor - shoot knife thrower and terrorist to the right - collect ENERGY • get on lift and go up to next
floor • up ladder to the left • kill terrorist - get ENERGY • go left • get both FIREPOWER • left - shoot terrorist - collect FIREPOWER • go left • shoot terrorist collect ENERGY - go right to the ladder drop down to the level below - shoot terrorist to the left • collect AMMO • go left - shoot terrorist and knife thrower - get ENERGY • left • kill knife thrower • collect ENERGY • go left • drop down gap • shoot knife thrower and terrorist to the left - shoot terrorist to the right - get

ENERGY • go right • shoot knife thrower and terrorist $\bullet$ go right $\bullet$ get ENERGY • drop down gap • go right • use lift to jump across lift-shaft • go right • shoot bomber and terrorist • go right • kill bomber • right • shoot bomber • collect ENERGY • go right • shoot bomber • use lift to jump
across lift-shaft • go right $\bullet$ shoot bomber and terrorist • right • shoot bomber • collect ENERGY • go right • kill bomber • collect AMMO and ENERGY • get on lift and get off at the floor with the ladder - up ladder - shoot terrorist opposite - get on next lift and go up to the top floor - go right • jump right across the gaps • continue right - then push up in front of the EXIT door to complete the level.

## $1311-2$

## the carace

From the start: Shoot terrorist - collect ENERGY • kill terrorist • go right • shoot terrorist and knife thrower - get AMMO • go right • shoot terrorist • collect AMMO



- right • shoot terrorist and knife thrower - go right • shoot terrorist • go right • collect ENERGY • kill knife thrower - go right • shoot terrorist • collect AMMO • go right • shoot knife thrower • continue right • get FIREPOWER • shoot terrorist - right • get AMMO • shoot terrorist and knife thrower • go right • collect ENERGY • shoot terrorist • go right • shoot knife thrower • right • kill terrorist - continue right • shoot knife thrower • right • collect AMMO • kill terrorist • go right • shoot knife thrower and terrorist • collect AMMO • right • up steps to next level • shoot knife thrower to the left • get AMMO • collect ENERGY • get AMMO • left • get FIREPOWER • go left - shoot terrorist • get EVIDENCE • go left • shoot knife thrower • left • shoot
terrorist • get ENERGY • left • get AMMO • shoot knife thrower • get other AMMO • go left • kill terrorist • get EVIDENCE • left • kill knife thrower • shoot terrorist • collect AMMO • go left • shoot knife thrower • get FIREPOWER • left • kill terrorist • get FIREPOWER • go left • shoot knife thrower and terrorist • continue left • get ENERGY • collect EVIDENCE • kill knife thrower and terrorist • go left • kill knife thrower • go left • shoot terrorist • left • shoot knife thrower - continue left • collect ENERGY • up steps to next level • shoot terrorist • get ENERGY • go right • kill terrorist and knife thrower • right • shoot terrorist • right • kill terrorist and knife thrower • continue right • shoot terrorist • get AMMO • go right • shoot knife thrower •
right • collect ENERGY • go right • shoot knife thrower and terrorist • right • kill knife thrower • get ENERGY • go right • shoot terrorist and knife thrower • continue right • shoot terrorist • right • shoot knife thrower • collect AMMO • go right to meet the fourth boss villain.


## $\because(: 0): 5$

Apart from firing bullets at you (which will pass safely over your head) this chap also drops grenades at regular intervals; these throw out shrapnel in three directions. Stay at the far left of the screen and shoot repeatedly to dispose of him. When he's dead, go right and push up in front of the EXIT door to complete the level.




## SATON BACKIOT

FROM THE START: Shoot terrorist • collect AMMO • go right • shoot terrorist, get ENERGY • go left • up ladder • shoot terrorists • get EVIDENCE • go left • get AMMO • up ladder • shoot terrorist • get FIREPOWER • go right • get ENERGY • shoot terrorist • right • collect EVIDENCE • go right • get AMMO • go left • up ladder • get ENERGY • shoot bazooka bloke to the right • up ladder • collect ENERGY • drop down • go right • get AMMO • right • shoot terrorist • get EVIDENCE • right • get AMMO • drop down • go right • up ladder • shoot sniper • go right • get on lift and go down to next level - shoot terrorist to the left • get ENERGY • left • get AMMO • go
right • use lift to jump over lift shaft • shoot terrorist • collect AMMO • right • get EVIDENCE • drop down • shoot bazooka bloke to the left • collect AMMO • go left • get AMMO • right • get ENERGY • go right • shoot terrorist • right • get ENERGY shoot terrorist • continue in a rightwardly fashion (sorry about that - I got a bit immersed in the 'police role there - Andy) up ladder • get AMMO to the right • go left • shoot terrorist • left • collect EVIDENCE and AMMO • go back to the right • drop down • go right • get AMMO • right • collect AMMO • get EVIDENCE • right • shoot terrorist • right • get FIREPOWER and EVIDENCE • go left • up ladder • get EVIDENCE • shoot bazooka bloke • shoot the purple thug to the left (who's obviously wandered in from The Simpsons - Ed) • use the lift to jump across lift shaft • shoot ter-
rorist • get AMMO and EVIDENCE • right shoot the purple thug (before he turns into a space mutant -Ed) • up the ladder • collect FIREPOWER • shoot bazooka bloke • go left • drop down • get on the lift and go up to next platform on the left $\bullet$ shoot terrorist • get EVIDENCE • left • get AMMO • go back to the right • get on lift and go up to next level • go left • shoot terrorist • get AMMO • left • shoot terrorist • left • get EVIDENCE • go left • get FIREPOWER • left - kill terrorist - go left - get both lots of AMMO (you can never have too much ammo, you know) • go back to the right up the ladder • kill the terrorist to the left • get AMMO and EVIDENCE • go left • get AMMO • right • drop down to level below use lift to jump across lift shaft • go right, then push up in front of the EXIT door to complete the level.




## CRYSTAL KINGDOM DIZZY

CodeMasters
Infinite lives, infinite chances - all you need is infinite salt for the biggest omelette in culinary history.
0 REM CRYSTAL CHEAT BY WAZ

## "Oi you! What're you looking at? Do you wanna get a poke in the eye or something?" "I'd rather have an infinite lives POKE, thanks."

## VINDICATORS hit squad

Here's a juicy infinite lives listing for this smart arcade conversion which should work on the original full-price version.
0 REM VINDICATORS CHEAT BY WAZ
1 FOR X=272 TO 325:READ Y:C=C+Y:POKE
$X, Y:$ NEXT
2 IF C<>5955 THEN PRINT "DATA ERROR": END
3 POKE 157,128:SYS 272
10 DATA $032,044,247,056,169,033,141,158$
11 DATA $003,169,001,141,159,003,076,081$
12 DATA $003,169,046,141,228,201,169,001$ 13 DATA 141,229,201,076,169,201,169,059 14 DATA $141,139,194,169,001,141,140,194$ 15 DATA $076,000,194,169,173,141,016,015$ 16 DATA $141,069,015,076,027,008$

## SHE VAMPIRES 4 most Horror

Waking up with a female vampire clinging to your neck can really put a crimp on your day, so why not try this listing POKE to get rid of those nasty blood-suckers for good (no offence, Mr Taxman).
0 REM SHE VAMPIRES CHEAT BY WAZ
FOR $\mathrm{X}=336$ TO 426:READ $Y: C=C+Y:$ POKE $X, Y:$ NEXT 2 IF C<>10977 THEN PRINT "DATA ERROR": END
3 POKE 157,128:SYS 336
10 DATA $032,086,245,169$, 032,141,240,003 11 DATA $169,101,141,241$, 003,169, 001,141
12 DATA $242,003,076,167,002,072,169,032$ 13 DATA 141,091,166,141,106,167,169,001 14 DATA $141,093,166,141,108,167,169,136$ 15 DATA 141,092,166,169,144,141,107,167 16 DATA $238,032,208,032,152,001,104,096$ 17 DATA $224,028,240,003,222,000,008,096$ 18 DATA $224,028,240,003,249,000,008,096$ 19 DATA $169,076,141,075,159,169,094,141$ 20 DATA $076,159,169,159,141,077,159,238$

## DATA 032.208,096

## NEIL ANDROID

4 Most Horror
Okay, I'll come clean. I'm not quite sure what this listing actually does, but if you own a
copy of the game you could do a lot worse than type it in, SAVE it and RUN it (like watching Home and Away, for example).
0 REM NEIL ANDROID CHEAT BY WAZ
1 FOR $X=336$ TO $367:$ READ $Y: C=C+Y:$ POKE $X, Y: N E X T$
2 IF $\mathrm{C}<>3878$ THEN PRINT "DATA ERROR": END 3 POKE 157,128:SYS 336
4 DATA $032,086,245,169,032,141,240,003$



## STIE:

Not only can we offer you infinite energy as standard. Not only can we offer you the option of infinite energy in the sub-games. We can also offer you the option to pick your difficulty level from one to eight so


## THRUST

What a Corker of a listing this is. Not content with providing you with infinite lives and loads of fuel, it also offers sprite cheats (which make you immune to everything except bullets), plus an option to stop the planet countdown timer. What more could you need?
0 REM THRUST. CHEAT BY M PUCH

1. FOR X=516 TO 577:READ $Y: C=C+Y$ :POKE $\mathrm{X}, \mathrm{Y}:$ NEXI

## 2 IE C $<>7218$ THIN PRINT "DATA

ERROR": END
3 INPUT* TNEINTTE LIVES Y/N"; AS:IF
A\$="Y" THEN POKE 567,141
4 INEUT"LOTS OF FUSL Y/N"; BS:IF BS="Y" THIN POKE 554, 173
5 INPUT*STOP COUNTDOKN Y/N";CS:IF C $\$=$ "Y" THEN POKE 572,141 6 INPUT"SPRITE CHEATS Y/N";DS:IF DS="Y" THEN POKE 532,327 POKE 157,128:SYS 516 10 DAPA $032,086,245,169,019,141,207,003$ 11 DATA 206,208,003,096,072,077,080,169 12 DATA 042, 141,013,010, 169,002, 141, 014 13 DATA $010,076,230,003,169,147,141,109$ 14 DATA $058,169,165,141,102,058,076,053$ 15 DAIA $002,169,153,141,253,093,238,255$ 16 DAIA 093,169,173,173,240,063,169,165 17 DAPA $173,174,050,076,036,108$
rom the start: right $\bullet$ right de-activate terminal one 5
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$\square$ Key: $k$ - Cartridge room C-Cartridge E - Energy point A - Active terminal Everything you ever needed to know to get through our brill' Power Pack 32 game.


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BROT PLOTING
Dear Techie Tips, I take it from your reply to David Robertson's letter in CF31 that you would like to see a multicolour Mandelbrot set plotter. Here's mine. It's all in Basic and therefore very, very slow but it does work. On average it takes two to four hours;
faster than your black and white version since in effect you are only testing half the number of points on the $x$-axis. These versions do not cover the whole screen since that can take 12 hours at high magnifications. If you know of a machine code version l'd love to see it.
Neil McLean, Canterbury.
10 REM BASIC MANDELBROT SET PLOTTER
20 REM BY N.MCLEAN
30 :
40 GOSUB 390
50 gosub 310
60 :
70 REM MAIN LOOP
80 FOR $J=20$ TO 180 STEP 1 90 FOR $I=80$ TO 240 STEP 2 $100 \mathrm{Q}=((\mathrm{I}-80) / 54)-2: \mathrm{W}=((\mathrm{J}-$ 20)/54)-1.5 110 cosub 200 120 IF $\mathrm{B}=1$ THEN 150
$130 \mathrm{E}=\mathrm{A}$ AND 3
140 GOSUB 260
150 NEXT I, J
160 POKE 53280, 2
170 GET AS:IF AS<>" " THEN 170


180 POKE 53265, 27:POKE 53270, 200: POKE 53272,21 190 END 198
199 REM SERIOUS MATHS $200 \mathrm{X}=0: \mathrm{Y}=0: \mathrm{A}=0$
$210 \mathrm{C}=(\mathrm{X} * \mathrm{X})-(\mathrm{Y} * \mathrm{Y}): \mathrm{D}=2 \star(\mathrm{X} * \mathrm{Y})$ $220 \mathrm{X}=\mathrm{C}+\mathrm{Q}: Y=\mathrm{D}+\mathrm{W}: Z=\mathrm{X}+\mathrm{Y}: \mathrm{A}=\mathrm{A}+1$ 230 IF $Z<-2$ OR $Z>2$ THEN $\mathrm{B}=0$ :RETURN
240 IF A>25 THEN B=1:RETURN 250 GOTO 210
258
259 REM PLOT POINT
$260 \mathrm{CH}=\operatorname{TNT}(\mathrm{I} / 8): \mathrm{RO}=\operatorname{INT}(\mathrm{J} / 8): \mathrm{LN}=\mathrm{J}$ AND 7 $270 \mathrm{BY}=8192+(\mathrm{RO} * 320)+(\mathrm{CH} * 8)+\mathrm{LN}$ $280 \mathrm{BI}=\mathrm{I}$ AND 7 290 POKE BY, PEEK (BY) OR

## ONI FOR ALL

Dear Techie Tips. I know it's a lot to ask, but is it po code running at about four routines in ma same SYS call? The reathe same time, with the same all the routines I have son for my asking is becaus if it's impossible, can yeachine start EOR
give me any help please. By the way give me any nelp please, they're brill!
code routines Chesterfield.


440 RETURN
448

300 RETURN
308 :


309 REM SET UP BIT MAP
310 POKE 53265, PEEK (53265) OR 32
320 POKE 53270, PEEK (53270) OR 16
330 POKE 53272, PEEK (53272) OR 8
340 POKE 53280,0:POKE 53281,0
350 FOR $X=1024$ TO 2023: POKE $X, 152$ :NEXT $X$
360 FOR $X=55296$ TO 56295: POKE $X, 7$ :NEXT $X$
370 FOR X=8192 TO 16191: POKE X,0:NEXT X 380 RETURN

388 :
389 REM SET UP VARIABLES
390 DIM A $(3,7)$
400 FOR $I=0$ TO 3
410 FOR $\mathrm{J}=0$ TO 7
420 READ A(I, J)
430 NEXT J. I

450 DATA $000,000,000,000,000,000,000,000$ 460 DATA $064,064,016,016,004,004,001,001$ 470 DATA $128,128,032,032,008,008,002,002$ 480 DATA $192,192,048,048,012,012,003,003$

I'm shocked and impressed. As to knowing whether a machine code Mandelbrot plotter for the C64 exists... well I didn't even know anyone had written a Basic version, so sorry, I can't help you there. Mandelbrots, by the way, are freaky patterns that are generated using a very weird but simple piece of maths and Neil's program plots these patterns in three colours. For those of you
into fractals, you may find the results of using these alternative pairs of lines interesting:
$100 \mathrm{Q}=((\mathrm{I}-80) / 320)-0.4: \mathrm{W}=((\mathrm{J}-$ 20) $/ 320$ ) +0.65

240 IF A 30 THEN $\mathrm{B}=1$ :REIURN
$100 \mathrm{Q}=((\mathrm{I}-80) / 400000)-0.168: \mathrm{W}=((\mathrm{J}-$ 20) $/ 400000)+1.036$

240 IF A>150 THEN B=1:REIURN
$100 \mathrm{Q}=((\mathrm{I}-80) / 4000)-0.75: \mathrm{W}=((\mathrm{J}-$ 20) $/ 4000$ ) +0.2

240 IF A $>100$ THEN $\mathrm{B}=1$ :REIURN


CBM'S QuICK CREEP?
Dear Techie Tips, 1 Can you give me a machine code routine that makes text flash smoothly Extended Background Colour Mode? 2 What is an IRQ?
3 How is it used?
4 How can I put the cursor anywhere on screen ready for a PRINT or INPUT (without the cursor key reverse symbols scattered everywhere)? 5 Where can I get a Power Cartridge?
6 Does the PC have a machine code monitor and extended Basic options?
7 Can screens 'frozen' with the PC be printed on an MPS801?
Philip Underhill, Leamington Spa.
Right Philip, before you start thinking,
"What? I didn't write a letter

## No STMNCS ATHCTED

3 SYS 49152
4 POKE 53280,0: POKE 53281,0
5 PRINT CHR\$ (147); CHR\$ (5);
6 FOR X=0 TO 3:PRINT
TAB $(X * 4)$, "COMMODORE
FORMAT" ${ }^{\prime \prime}$ PRINT:NEXT $X$
7 FOR A=1 TO 3:FOR B=0 TO 15
8 POKE $1024+A * 84+$ B, PEEK
$(1024+A * 84+B) O R(A * 64)$
9 NEXT B, A
10 DATA $120,169,127,141,013$, 220,173, 013
What am I doing wrong?
Oliver Brooke, County Cork, Ireland.
11 DATA 220,169,091,141,017,
This is a very common mistake; you're getid 'A-string') is between different types of vari "HELLO". Numeric vari-

208,169,000
12 DATA 141, 018, 208, 141, 076,
designed for storing text, like "HELL sign), are for storing 192,169, 042
13 DATA 141,020,003,169,192,
141,021, 003
14 DATA $169,001,141,025,208$,
numbers only. So $\mathrm{A}=$ "झisumo" needs a numeric variable, c
141,026,208
15 DATA $088,096,174,076,192$,
189,077,192
16 DATA 141,034,208,189,
ables, use the VAL command, or 510 to A then bung
So change the A S in lines ( A ) and $505 \mathrm{~A}=\mathrm{VAL}$ ( $\mathrm{A} \$$ ).
two new lines: that long!" what l've
done is pick the questions from the wodge of letters you've sent (and there's a round of applause for the first person who manages to unravel this letter's title).
1 Change the three sets of values in lines 21-26 to change the colours used (there are 16 numbers for each background colour):
0 REM EBCM GLOW BY J.FINCH
1 FOR X=49152 TO 49276:READ Y:POKE
$X, Y: C=C+Y: N E X T X$
2 IF C<>9812 THEN PRINT "DATA ERROR": END

17 DATA $208,189,109,192,141,036,208,232$ 18 DATA $138,041,015,141,076,192,238,025$ 19 DATA 208,076, 049, 234,000 20 : 21 DATA 003,003,014,014,014,006,006,011 22 DATA 011,006,006,014,014,014,003,003 23 DATA 013,003,003,005,005,003,003,013 24 DATA 013,013,001,001,001,001,013,013 25 DATA $009,002,002,008,008,008,010,010$ 26 DATA $010,010,008,008,008,002,002,009$ 2 An Interrupt ReQuest.
3 Briefly, it taps the C64 on the shoulder 50 times every second and goes, "Oi! I want to
ol need a listing that will allow me to print words in the border (in other words, make it possible to use the entire screen to write on).
Michael Maclean, Isle of Lewis.
You can't use the entire screen to write on. It is relatively easy, in machine code, to get rid of the upper and lower borders, but you can only create 'gaps' in the left and right borders and the process is very fiddly. Programs that appear to have writing in the borders actually use sprites, the only thing you can display there.

- Can you give me some details on Mini Office 2? Can the tape version be used with a disk drive?
Francis Donoher, County Laois, Ireland.
Mini Office 2 is a package that contains a number of high quality programs, including a word processor, database and spreadsheet. I recommend it if you're
searching for any one of those types of program then this package as a whole is excellent value for money.

Both the disk and tape versions have options for selecting which device you use so, yes, the tape version can be used with a disk drive. You may have a little trouble fitting the Mini Office 2 tape into the drive's slot, though! (Check out our Mail Order service on page 80 - Ed.)

O I recently bought a C64 with various bits and bobs. Some of the disks that came with it have two or three commercial games copied on each side, most from tape games. How is this done? Is it illegal?
A Toulson, England.
There are various methods for copying commercial games from tape to disk but I am not at liberty to tell you what they are as it is considered software piracy and is, indeed, illegal. Find the person you bought it all off and give their wrists a good slap.

- Lately l've heard a lot of talk about 3.5-inch disk drives. If I bought one for my C64, which is the best word processor to use with it? George Bennion, Croydon.

The only decent 3.5 -inch disk drives for the C64 come from the USA and you can't buy word processors on 3.5 -inch disks for them. If you want a disk drive, buy a 1541-II from Datel Electronics Ltd (ㄴ 0782 744707) and then get the Mini Office 2.

- How can I read the joystick ports? Paul Cresham, Swindon.

Try out this short proggy which reads the joystick in port one. For port two change line 10 to $10 \mathrm{~J}=127$-PEEK ( 56320 ). $10 \mathrm{~J}=255-$ PEEK (56321)
20 IF (J AND 1) THEN PRINT "UP" 30 IF (J AND 2) THINN PRINT "DOWN" 40 IF (J AND 4) THEN PRINT "LEFT" 50 IF (J AND 8) THIBN PRINI "RIGHT" 60 IF (J AND 16) THBN PRINT "PIRE" 70 сот० 10
do something else!" The C64 then says, "Okay then, but be quick!" and the IRQ thingy gets to work. When it has finished it says, "Cheers, C64, now you carry on with what you were going to do." You can enter the following bit of code using a machine code monitor and then start it using sys 49152. The first bit of code changes the IRQ vector at \$0314 and \$0315 to point to a new piece of code (at $\$ C 00 D$ in this case). The new piece of code then makes the border change colour 50 times a second. The JMP \$EA31 is the machine code version of, "carry on with what you were going to do," and also monitors the keyboard so that you can type away while the border is flashing. A C000
$>$ C000 78 SEI
$>$ C001 A9 OD LDA \#\$0D
$>$ C003 8D 1403 STA \$0314
$>$ C006 A9 C0 LDA \#\$C0
> C008 8D 1503 STA \$0315
> COOB 58 CLI
$>$ COOC 60 RTS
$>$ COOD EE 20 DO INC \$D020
> C010 4C 31 EA JMP \$EA31
$>\mathrm{C013}$
4 Lines 1000 and 1010 of this short demonstration are the lines that do the biz:
10 PRINT CHR $\$$ (147)
$20 \mathrm{X}=\operatorname{INT}(\operatorname{RND}(1) * 34)+1$
$30 \mathrm{Y}=\operatorname{INT}(\operatorname{RND}(1) * 23)+1$
40 GOSUB 1000
50 PRINT "HELLO"
60 GOTO 20
999 REM POSITION CURSOR
1000 POKE 781,Y:POKE 782,X:POKE 783,0
1010 SYS 65520
1020 RETURN
5 Bitcon Devices Ltd, 88 Bewick Road, Gateshead NE8 1RS ( $~ 091490$ 1975).
6 Yes and yes. In fact, the extended Basic is absolutely cool with all the commands you're likely to need to help you program. It has 'toolkit' things like RENUMBER, AUTO and so on rather than stuff like CIRCLE, SOUND and COLOUR.
7 Yes again.


FONT
FACTORY
Dear Techie Tips,
I have written a short piece of machine code that will effectively make a new character set by copying the first 64 characters of the normal ROM character set and storing a zero byte on the third line of each character. James Coulter, County Tyrone, Ireland.


## Cheers, here's the code in the form of a

Basic loader:
0 REM CHAR COPIER/ DEFINER BY J.COULTER
1 FOR X=49408 TO 49495: READ Y: POKE
$X, Y: C=C+Y:$ NEXT $X$
2 IF C<>12457 THEN PRINT "DATA
ERROR": END
3 SYS 49408:REM COPY CHARS
4 SYS 49465:REM ALTER CHARS
10 DATA $162,000,169,142,032,210,255,120$
11 DATA $173,014,220,041,254,141,014,220$
12 DATA $169,051,133,001,189,000,208,157$
13 DATA $000,048,232,208,247,189,000,209$
14 DATA $157,000,049,232,208,247,169,055$
15 DATA $133,001,173,014,220,009,001,141$
16 DATA 014,220,169,028,141,024,208,088
17 DATA $096,169,000,162,000,232,232,157$
18 DATA $000,048,232,232,232,232,232,232$
19 DATA $208,243,232,232,157,000,049,232$
20 DATA $232,232,232,232,232,208,243,096$
If you're wondering just how that works, I've written a Basic version of the same thing. If you think it looks a bit strange, that's because l've kept exactly to the machine code so that if you're learning Assembly language you'll be able to disassemble the machine code and compare it. As an example, $X=(X+1)$ AND255 is the exact translation of the Assembly language INX instruction.
$100 \mathrm{X}=0$ : PRINT CHR $\$$ (142)
110 POKE 56334, PEEK (56334) AND 254 :POKB 1,51
120 A=PEEK (53248+X) : POKE $12288+X, A$
$130 \mathrm{X}=(\mathrm{X}+1)$ AND255: IF $\mathrm{X}<>0$ THEN 120 $140 \mathrm{~A}=$ PEEK ( $53504+\mathrm{X}$ ) : POKE $12544+\mathrm{X}, \mathrm{A}$ $150 \mathrm{X}=(\mathrm{X}+1)$ AND255: IF $\mathrm{X}<>0$ THEN 140 160 POKE 1, 55:POKB 56334, PEEK (56334)OR 1 170 POKE 53272,28
180 :
$190 \mathrm{~A}=0: \mathrm{X}=0$
$200 \mathrm{X}=\mathrm{X}+2$ : POKE $12288+\mathrm{X}, \mathrm{A}$
$210 \mathrm{X}=(\mathrm{X}+6)$ AND255: IF $\mathrm{X}<>0$ THEN 200 $220 \mathrm{X}=\mathrm{X}+2$ : POKE $12544+\mathrm{X}, \mathrm{A}$
$230 \mathrm{X}=(\mathrm{X}+6)$ AND255:IF $\mathrm{X}<>0$ THEN 220 240 END


## COOL <br> CREATIONS

Dear Techie Tips, 1 How do you use (and view) cool new character sets designed using the UDG System 2 on CF19's Power Pack? 2 How do you produce scrolling landscapes like you get in loads of games? Could you use the map utility on UDG? If so, how?
3 Could I use my 1084S monitor with my C64? 4 How do you produce DATA statements for multicolour sprites?
Stewart Yapp, Cannock.
1 Save the character set to tape or disk by selecting the appropriate icons and then SAVE CHR from the menu that appears. The set is stored at $\$ 2000$ to $\$ 27 \mathrm{FF}$. To use them, load the data back and enter POKE 53272,24 , is

## INFo:MWHITON BuNK

## LOOKING SHITY

When games which allowed you to redefine which keys you used were in vogue, everyone wondered how the games knew whether you had pressed the left or right SHIFT key. Well, I did anyway. The normal test of PRINT PEBK (653) will only tell you that one of the SHIFT keys has been pressed, not which one.

The following program goes all the way and tells you which of the SHIFT keys has been pressed and also detects whether the RUN/STOP key has been pressed at the same time. To achieve the trick with the RUN/STOP key the program makes sure that you can't break out in the normal way; instead, use the space bar. 10 POKE 808, 254
20 gosub 1000:REM TEST KEYS
30 GET A\$:IF A\$<>CHR\$ (32) THITN 20
40 POKE 808, 237
50 END
60 :
1000 PORE 56334, 0: RBM FOR PRECISE TIMANG 1010 Poks 56320,253:IF
(PEEK (56321)AND128) $=0$ THTEN PRINT "LAPFT" 1020 POKE 56320,191:IF (PEKK (56321)AND 16) $=0$ THIZN PRINT "RIGIT"

1030 POKE 56320,127:IF
(PEBK (56321) AND128) $=0$ THITN PRINT "STOP" 1040 POKE 56334,1:REM RESTORE VALUE 1050 RETUEN
exactly what the proggy below does, with line 20 doing funny things to pointers which means you won't overwrite the characters: $10 \mathrm{~A}=\mathrm{A}+1$ :IF $\mathrm{A}=1$ THEN LOAD" $\mathrm{FILENAME}^{\prime \prime}, 1,1$ 20 POKE 52,32: POKE 56, 32:CLR
30 POKE 53272,24
2 You have to write a routine that will plot a section of the map given any starting $X$ and $Y$ co-ordinates (preferably in machine code for speed). This is far too complicated to explain here and would probably need an article of... well, you know what I'm going to say by now! 3 Yes. You need a C64 composite video lead which plugs into the video socket on the back of the C64, and the red, yellow and white sockets on the back of your monitor. Any good computer shop should be able to get one for you. If you can't find one, try Cavendish Commodore of 144 Charles Street, Leicester (~ 0533 510066). 4 You design the sprites with FROST, which was on the CF32 Power Pack, and use the ultra fast "Make DATA" option.


What's a girl supposed to do? By order of the almighty Ed, there'll be no ooky's, spooky's, and definitely no kooky's at all in this review. Not even the words of the song all wiggly across the top of the page. I'm lost without a kooky or two. But the game wouldn't be. Lost, that is. You could take out every kooky, ooky and indeed, spooky and it'd still be a Corker. But nobody has. Taken out the ookies and kookies that it. And it's even got the theme tune intact - you know, the one that goes bom-iddy-bom, click click, bom-iddy-bom, click click, bom... (Snip - Ed).

Okay, so the gameplay isn't exactly groundbreaking stuff, but it's oozing with fun, finesse and style. You play Gomez, the Addams' dad, and you're on a quest to find the rest of your family. They're all locked away in various parts of the ancestral home while the keys that'II release them are hidden in other parts of the huge mansion. (Quite how this state of affairs came about isn't entirely clear but


> C'mon. Own up. Are you a Munsters or Addams fan? We reckon that while Fred Gwynne is a legendary folk hero the Addams Family wins out on sheer class and weirdness. Clur reckons that the game is (un)dead good, too.
it's got something to do with a lawyer.) All you have to do is set them free. Simple? Nope.

Each room poses a different perambulatory problem. It's never as easy as it looks to get from where you are to where you want to be. The puzzles start off simple - it's just a case of bopping a few baddies on the head - but as you venture further into the bowels of the mansion, the conundrums become tougher than trying to convince Morticia's pet plant Cleopatra that she could really do with a decent prune. Most of them are ingeniously tricky timing puzzles in which you have to leap or make a run for it at the precise moment to end up avoid being squashed by bouncing pumpkins, falling into red hot lava, skewered by nasty spikey
Whhhhoooo, whoooooooo! Stomp the ghosties on their heads to send them back to their graves with a severe headache.

No one told me that cauldrons were a means of transport. I always thought that they were used for cooking... just shows how wrong you can be, I suppose..


things or gener-
ally meeting a grisly end.
And they're extremely addictive; most of the time you can work out what you have to do, it's just a matter of getting the timing right that's the problem, so no matter how many times you get splattered, you'll always want to have just one more go, just to prove to this stupid computer that you can do it. Sensible restart points help in this respect, too. to The game map is mightily massive and displayed as a series of flip screens rather than a continuously scrolling map. This does have its advantages: if you accidentally wander into a room and there's a


The second character you rescue is Lurch. To survive the quicksand keep the fire button held down to jump continuously and move from side-to-side avoiding the sparkly thing as you go.


baddie coming right at ya, then you can nip back to the safety of the previous screen.

Not all the lurking nasties can be completely obliterated. Some are indestructible (and lethal to touch) while some just pause long enough for you to leap over them.

ster, leave the room and then return to that room, you'll find that he's come back to life (if life is the right word, that is). This might sound like a bit of a swizz, but sometimes bouncing on the bonce of some monster or other is the only way you can avoid falling into lava or reach a platform. If one of these monster vanished permanently when you killed it, if you ever had to go back through that room again you'd end up stuck, basically. So count yourself lucky that they're all members of the undead and can be resurrected.

The graphics are so colourful you'll need to wear Ray-Bans to reduce the glare. Gomez could be accused of being a tad small (I) accuse Gomez of being a tad small Dave), but the case for the defence is size doesn't matter - it's what you can do with him that counts (Dave's objection overruled Ed). He jumps like a maniac with springs in his cuban heels and can even change direction in mid air. Wow, what a man (and he really toves his wife too).

The Addams Family is just pure fabness. An arcade adventure with a soul - quite a few souls actually and Grandma's got most of them stashed away in her handbag. Even if you can't click your fingers in an ever so cool manner, you'll love it. Trust me, I'm a vampire.

## CIUR

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Rows of tined the wall．wallpaper． computers lined them to wall Argonians preter the

## How would you like to

 be $£ 1,000$ better off？ If you＇re the first person to beat this adventure you will be．Clur discovers what you have to do．Usually，the only thing you get when you finish a game is a feel－ ing of immense selt－satisfaction （unless it＇s Final Fight in which case you just feel cheated）．But if you＇re the first person to finish The Argon Factor you could end up with a lot more． Argor＇s programmer， Tony Rome，is so sure that it＇s going to take even the keenest of players a goodly while to work out the solution to his graphic adventure that＇s he＇s offering $£ 1,000$ make the effort seem worthwhile．

For reasons known only to Tony and a small bowl of petunias the game is set in the year 2152．A nasty piece of work named Valdira，a despicable little space bandit who travels the universe，destroying everything in his wake－just for a laugh you understand－has decided to make life hell for a certain Captain Cord（made up name！），hero of the space fleet．

For a giggle，Valdira created a holographic image of Cord which he used to order Cord＇s loyal fleet（with Ankira，his girly，on one of the ships）on a dangerous mission
 The Argonian guards can
quite sered！
 from the beginning if you die．The second section consists of a series of fiendish puzzles each set in different time zones．To finish the entire game，you have to complete each section perfectly．

For a graphical adventure the graphics in The Argon Factor are hardly mas－ terpieces，but they perform their function excellently；they add atmosphere and help to orientate you，without wasting valuable memory that＇s been bet－
ter spent on the actual gameplay．The parser（which is the type－in control system for any new adventurers lured by the $£ 1,000$ prize） can still handle quite complicated series of com－ mands without throwing it＇s stock，＂I really don＇t now what you＇re talking about！＂reply at you． Argon is an atmospheric and intriguing slice of adventuring but it＇s rather pricey at a tenner．And without the $£ 1,000$ prize I doubt whether it would lure any non－ adventure fans away from their joysticks． from their joys ciul
from which it never returned．After a month－long trial，the real Cord was found guilty of negli－ gence and banished from Earth．

For three years he searched for some evi－ dence that would prove his innocence，assisted only by a run－down robot named LAP．Then one day a faint，signal was picked up by his on－board computer．The message hailed from a small planet named Argon，in the Velusian Belt，and mentioned the name Ankira．Immediately he set course for Argon．

The game has two main sections；it starts off with a standard adventurey bit in which you have to land your ship on Argon and explore the planet．To help you get started this section has a Save Game option so that you don＇t have to re－start

For example look area thoroughiy． For example look twice at the locker in your space ship before you leave．


Always examine an area thoroughly．


The guards aren＇t very good at their job．They spend all day playing this game．

GAME

## VHAL SLAJSHES

## pubusher．

THE ARGON FAGTOR PRICE ．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．$£ 10$

The planet Argon as seen from your space ships monitor．Pretty perhaps，but not all very informative． 1 recommend you talk to LAP，your robot pal，if you want to know more．

AVAILABLE
оther INFo． $\qquad$ OUT NOW ．．．．．．．．．．．．．．．．．．TAPE AND DISK

More functional than aesthetically pleasing，but they work well enough．

さ゚うようOLジほジなら」

The game＇s got an decent vocabulary so you shouldn＇t get too frustrated．

## 

The first section is an excellent teaser designed to lure you into the game．

## $\xrightarrow{\text { ゲら」 }}$

Well，it all depends on how badly you want to win the $£ 1,000$ prize．


74 POWERTESTED


Scrub the sails and poop the main deck, get your eight pieces of rum and catless to join Clur on an expedition into the highly dangerous world of pirating.

irates, evil wizards and ninjas together in one game? In one country? All at the same time? Oh well, all's fair in love and game coding, and ninjas are quite brill at fighting. Besides, it helps make the plot really 'interesting'.

The retro-active justification for Skull \& Crossbones goes something like this. One Eye and Red Dog were lords of the sea, murderers and pillagers of the highest calibre. All was fine with their world until one fine evening when they were returning home with their illgotten gains. On this particular evening they bumped into an evil sorcerer, who took an instant dislike to them and hid all their treasures in dead awkward places.

So now they are doomed to search the town and its residents' ships until they find where the wizard's hidden their gold. Of course, nobody likes a pirate, so everybody Red Eye and One Dog meet draws their
sword, whips out their ninja nunchukas or produces whatever other weapon that's appropriate to their social strata and challenges our heroes to a duel. It's a sort of neighbourhood watch scheme with attitude.

All our sea-faring heroes have to defend themselves with are small, but shiny, swashbucklers' swords. They can thrust, lunge, or backslash their opponent to a pile of dust. Or they can draw back and defend themselves from the enemies' parries.

Skull \&
Crossbones is a one- or two-player game. If you're playing on your own (and you probably will be) you take the part of One Eye who's clad in a clean white shirt. In two-player mode your opponent plays Red Dog in a rather fetching purple shirt (that's Red Dog in the shirt - your mate can wear whatever he likes). And that's really about the
only difference, as the two players take it in turns to play through each level.

Each level is played on a different scrolling map but you can only move on to the next section if you discover a red exit square; these appear when you've killed everything on that level - fine in principle but problematic in practice. You see, the game won't scroll back on itself. You can be forced along the map, leaving 'live' enemies behind. Which means you're stuck because the exit square won't appear until all your foes are dead!

Red One and Dog Eye can only either face left or right so their movements are very limited. And it's sometimes difficult to tell whether you're actually bashing your foe or not. The only way to know, is to play with the music off so you can here the sound effects.

Controlling your pirate should be simple enough, with the commands swapping direction when One Red Dog or Dog Eye Red do an about face. The problem's getting them to turn around in the first place. You can't turn while you're being hit and even then turning takes time because you have to hold down the Fire button. This leaves you open to attack for a second - which is usually the second you die.

Although S\&C looks okay in a garish sort of way - well actually it doesn't; I'm just searching for some-


## thing

 good tosay about the darned game．Basically the graphics are colourful，but pretty rubbish and the appearance of the bonuses typify the laziness with which the program has been written；they＇re just＇O＇from the standard C64 character set that pop into existence then bounce lamely off the screen．Skull and Crossbones also gets the wooden leg award for gameplay award．

Basically，it＇s a very poorly worked out game that＇s almost in danger of being fun to play until you stuck by the daft scrolling．The graphics and


If someone＇s sneaking up behind you don＇t waste time turning around do a back slash－you＇ll die，basically

aren＇t in any danger of improving your enjoy－ ment either． It＇s hard to


 imagine that any one ever actually put coins into this when it was a coin－op．At least on computer you pay once and you play $\because T H$| 3 | 6 |
| :--- | :--- | :--- | once－that sounds like a fair deal． Sorry，I＇ve started talking gib－ berish．S\＆C gets you that way

## SO WHY ARE YOU JOLI，ROGER？ <br> I bet you＇re wondering why pirates

called their Skull and Crossbones flags the Jolly Roger？No？Well we＇re going to tell you anyway．Actually there are two explanations so take your pick．One is that it comes from the Indian phrase＇Ali Rajah＇which means＇King of the Sea＇．The other is that in olden days when a sea－faring vessel went into battle it was cus－ tomary to fly a flag．If it was red it meant that no quarter would be given（ie，no prisoners would be taken）and the French called this the la Jolie Rougere，but as this was the 17th century everything was in black and white．

cidi

## 12345678910  <br> ．

The graphics are bright and func－ tional at best，cheap－looking at worst．

## ジロリ」リ

You have a choice of fairly bog stan－ dard music or sound effects．

## 515

You might well enjoy your first stab at Skull and Crossbones．．

## 

．．．But more than likely it＇ll be the last you you play it as well．

## 

 $37 \%$GAME ．．．．．．．．．．．．．．．SKULL \＆CROSSBONES PUBLISHER ．．．．．．．．．．．．．．．．．．．．THE HIT SQUAD CONHACT NUMBER．．．．．．． 061 s32 6633 PRICE ．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．． AVAILABLE ．．．．．．．．．．．．．．．．．．．．．．．．．．．．OUT NOW

I


July 1993

iving up to a reputation as the best in the world can be tough (oh ) don't know -
TMB). Just ask Mr Souness After a cataclysmic season he's desperately trying to rebuild the Liverpool tegend. Grandslam's new game could help or hinder him in this endeavour. A brilliant footie free-for-all would help restore Liverpudlian pride, at least amongst
Hetr the computer literate, but a real dog would only seem to typify the Scousers' season.
cise $\qquad$


To take a comer -fuat plok the difeetion, hold Hiro to dotermine the power and then welly the ball into touch.

Well, Graeme John and (now) Nigel can breath a sigh of reliet because the C64 Anfield 7 crowd looks to be have hit form. If their real-life counterparts can match this level of skill next September, then once again the 'Pool will be championship contenders.

With MicroProse Soccer, Emlyn Hughes and Kick Off 2 already on the park, it's hard to actually better the game'. What your aspiring (doesn't that mean breathing? - Clur) lan Rush needs is a combination of good 'pitch' action, options and solid programming. tuckily. Liverpool plays an attractive game. has a team bus-full of options and is as robust as Vinny Jones after a week on a health farm.

Liverpools got style. And the game's not bad either. Icons abound on the intro, outro and options screens, with all your possible choices just a joystick click away. There's a

Vhal suavisules
GAME .
LIVERPOOL
PUBLISHE:
, ........................ GRANDSLAM CONMAG NUMBER.......081 6807044 PRICE .. $10.99 / £ 14.99$
AVAILABIE $\qquad$ .JULY


Don't cheat! Whatever the score, whatever the other team's position, NEVER foul them. Due to tightening up procedures among computer refs, late tackles will now automatically earn you a red card and an early bath. It's easier to get a goal back than a player, so play the game by the rules.

single match, two-player game, full season and a knockout FA Cup tournament.

Then there's the team, something I think all football managers - even Graham Taylor - will agree, is essential for a successful days football. The squad's picked by clicking on the faces of Liverpool lads from recent seasons - Dean Saunders is still at the club. Each player is graded in terms of power and ability, their history backed up with a comprehensive list of what they've achieved at the club. There are even neat lit-

## fiverpool's stlly skills


 ble to tackle Kick Off 2. dribble circles around Emlyn and put a shot past MicroProse Soccer. Luckily, Liverpool really has a go for goal.

The play window is small (one nil to the opposition). The players are fast (it's one-one!) Occasionally, it's a little hard to tell which of
Occasionally, it's a little hard to tell which of
your team's doing what (two-one to them) but the control's precise (two-two). Then, just when you thought it was all over, you get the feel of the way this game plays. Football is more than a game of two halves, it's a game of many disparate parts. There's positional play, player intelligence, pace, the power and the punishing effect of tackles, the gulf between the average and the excellent players, aftertouch and much more besides. Somehow Liverpool ties it all together in one taut little package. It's hard to specify why or
how, but the
There's wotsisname, ooojah, thingy and $y^{\prime}$ know.
The
team
are house-
hold
names.
tle pics of each of your 20-man team, so you can see exactly who you're picking.

All the options in the world couldn't help a footie game that doesn't play, so it's Cin (0,


> Long before Trolls invaded the C64 another breed of stupidly-haired creatures did the platform bouncey thang. Now they're back in rerelease form and our very own fiery-follicled freak, Clur, gives them the treatment (and we're not on about a wash and blow dry).

Move over Manga, here comes Rodland. It's more Japanese than sushi, even cuter than girly oriental pop singers and more than a tad playable. Rodland is a platformer that belongs there on the shelf, right next to your video of Akira and your collection of bonsai (Okay, Clur that's enough, we get the picture - Ed).

Tam and Rit's Mum has been kidnapped by a ginormous bird and is being held captive in an incredibly tall tower. The first thing that any average teenager would do faced with this situation would be to arrange a series of all night parties -


Whales with wellies climbing ladders? Get out of here. You'll be telling me to take a hitch on a hot air balloon next.
rescuing the old biddy would only cross their minds when they don't get their breakfast in bed three days in a row. But Tam and Rit are different. They love their mummy in the way that only kids in American soaps usually do (isn't it a shame how westernised the Japanese are getting?) and so they start off on an adventure they will never forget.

The route to the tower is guarded by a host of cuddly beasties, all out to get the kids. You can play either of the two sprogs, or you can get your mate to join in and play the other. In two-co-operation is the name of the game (well, er, the subtitle, at least - it's still called Rodland


Okay, okay, you were right. As long as I don't get dive-bombed by any large mutant wasps... uh oh! I wish I hadn't said that.


Why is it that in games things without any legs always seem to be able to move a hell of a lot faster than quadrupeds?
actually), because if you kill your mate he'll just go and nick all your continues when he gets back into the fray.

The game works much along the same lines as Bubble Bobble you've got a screen packed with enemy-infested platforms which you have to clear to get on to the next level. The platforms appear to be made out of Gro-Bags ${ }^{\text {M }}$ with pretty pink flowers sprouting from them.

You can just kill all the nasties on a level to move on to the next one if you want, but only a girly wuss would do that that. Because, you see, if you collect all flowers before you've killed all the baddies you get a chance to get an extra
$\square$


And if you understand that title, what are you doing playing C64 games? You should be down the post-office, showing the woman next to you in the pension queue pictures of grandchildren... (Er, I found the record in my mum's collection, by the way - honest). Anyway, this groovey slice of 60 s vinyl (by a band aptly named Middle Of The Road) just about sums up the plot of Rodland... uncanny, really isn't it? But, strangely, it doesn't go into the details. But never fear, because what follows is the Reader's Digest abridged version...



Hyascouly oocou





Beat the crocodiles and you're treated to a seatfy firework display. Quite why is never made entirely clear.


## If destroying an enemy earns

 you a special weapon, try not to use it until you've picked all the flowers. Then you can blast all the nasties and collect a veritable alphabet of bonus letters.
life. All the nasties turn pink for a while and if you manage to kill 'em while they're pink you'll get a letter token. Collect all the letters to spell EXTRA and some poxy-looking fairy whatsit appears and gives you an extra life.
"Hang on a minute - why's it called Rodland?" (Who said that? - Ed.)

A-ha, I'm glad you asked that. (Nobody did - you just wrote it yourself - Ed.) The name comes from the rods that Tam and Rit use to dispose of their enemies. Okay, an UZI carbine might be more practical, but I'm telling you

 It's amazing the way those flowers secing be growing in mid air. They must in this place. some mighty strange fertiliser in this place.
killing has never been more fun! When you're in range of a baddie tap the Fire button on your joystick to activate the rod's tractor beam to trap him. Now, if you repeatedly press Fire you'll fling the baddie from side-to-side over your head bashing him viciously on the ground until he's completely pulverised. Alternatively, you can just swing him over your head once to move him out of your way if you don't want him dead just yet.

Once you've overcome the nauseating cuteness the inherent violence shines through. and that's when you really begin to enjoy yourself. The first few levels ease you into the gameplay and then wham! - you're thrown into the action big time and there no room for any more mistakes.

The only major downer about Rodland is that it's too easy. It's possible to play all 32 levels without having to pick up any bonuses. So, once you've got it licked (which wont take long) it's really up to you whether you want to make the game a bit more challenging by going for the flowers and seeing how many lives you can finish the game with. The music's also just on the wrong side of irritating, but when you're playing you'll get so involved that you won't care about the noise coming from your 64. Or any noise for that matter. Dannii Minogue could play in a gig in your bedroom and you wouldn't even notice.

CLUR
din in in


It's a tad too easy so you'l
finish it within day or two.


It's a tad too easy so you'll probably

Tedious cutesy tune that you'll have to turn down after a while.


Instantly addictive in exactly the way that Eldorado isn't.

## 

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## COMMODORE FORMAT BACK ISSUES ORDERING SERVICE



CF22: Cover tape - full games: Hover Bovver, Agent Orange. Demo: Robocod. Gamebusters: Murray Mouse, Rainbow Islands. Reviews: James Pond: Robocod, Biff, Dylan Dog, Jimmy's Soccer Manager, DJ Puff's Volcanic Adventure, Light, Bug Bomber, Gary Linneker Collection.


CF23: Cover tape - Full games: Defenders Of The Earth, Johnny Reb 2. Demos: Biff, Bug Bomber, Nobby The Aardvark. Gamebusters: Maze Mania, Rainbow Islands, Super Seymour Saves The Planet. Reviews: Cool Croc Twins, Turbo The Tortoise, Xenomorph, Millennium
 Warriors, The Olympiads. Saracen Paint
Cover tape - Full game: John Lowe's Ultimate Darts. Demos: Slicks, Hägar. Gamebusters: Space Crusade, DJ Puff, Vendetta.
Reviews: Hook, Match of The Day, Bangers And Mash, Count Duckula 2, Frankenstein, Slicks. Specials: More datassette stuff.

CF24: Cover tape - Full Demos: Fuzzball, Match of The Day, Ugh!, Cool Croc Twins. Day, Ughi, Cooi Croc Twins. Reviews: Mega Sports, Ugh!, Reviews: Mega Sports, Ught,
Elvira 2, Hägar The Horrible, Nobby The Aardvark. Specials: Typing in listings (a popular one, this!); getting the most out of your datassette.


CF26: Cover tape - Full games: Twin Tiger, Cosmic Causeway, Bomber. Demos: Stuntman Seymour, Doc Croc.
Gamebusters: Space Crusade, DJ Puff.
Reviews: Stuntman Seymour, Super All-Stars, Boxing Manager 2, Popeye 3 Specials: First installment of Let's Make A Monster.


CF27: Cover tape - Full games: Deflektor, Alternative World Games, The Muncher. Worid Games, The Muncher. Gemo: Sceptre Of Bagh Gamebusters: 13-page
Creatures 2 special. Creatures 2 special.
Reviews: Crystal Kingdom Reviews: Crystal Kingdom Dizzy, Bully's Sporting Darts, Crazy Cars, Psycho's Soccer, Locomotion. Specials: Fan clubs.


CF28: Cover tape - Full games: First Strike, Fifth Gear, Locomotion, Reckless Rufus, Nick Faldo's Championship Golf. Gamebusters: Spellbound Dizzy, Famous Five. Reviews: International Tennis, Graeme Souness International Soccer, Cool World, Nick Faldo's Championship GoIf, Paint And Create.


CF29: Cover tape - Full CF29: Cover tape - Full games: Herobotix, Battleships, Highway Encounter. Demo: Carnage.
Gamebusters: Winter Camp, Spellbound Dizxy, Batman. Reviews: WWF European Rampage, Sceptre Of Baghdad, Magic Rufus, Dalek Attack, Street Fighter 2, Superstar Seymour, Lethal Weapon.


CF30: Cover tape - Full games: Slayer, Rebounder, Daedalus, Blackjack 21. Gamebusters: Creatures, Reckless Rufus, Winter Camp. Reviews: Jimmy's Super League, Carnage, Gladiators, Football Manager 3, Spelling Fair, Big Box.
Specials: How to write dead brill' SEUCK games.


CF31: Cover tape - Full games: Cauldron 2, Snare, Subterranea, Monster Mash. Demo: Arnie 2. Gamebusters: Stuntman Seymour, Dalek Attack, Seymour, Dalek Attack,
Crystal Kingdom Dizzy, Revlews: McDonaldfland, Table Tennis, Snare, Super Sports Challenge, 4-Most Super Sports Specials: More SEUCKcess; Football management sims.


Cir32: Cover tape - Full games: Thrust, Steel, Corya. Full Utility: FROST (sprite designer utility). Gamebusters: Stumtman Seymour, Lethal Weapon, Dalek Seymour, Lethal Weapon, Da Attack, Wild West Seymour.
Reviews: ARNIE 2, Fist Fighter, International Truck Racing, Trolls, Stone Age, World Championship Squash.

CF33: Cover tape - Full

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## DISN ROHIEN GHEMy

Well there aren't going to be any of those in the next issue. Oh no, sir. But there will be bucket loads of good clean hints, tips, tricks, tactics, POKEs, listings, playing guides, advice and sundry other gaming info. Yes, CF35 sees our Samaritan's Comer (or SOS as it has come to be known) Gamebusters Special.

Andy 'The Roberts' Roberts has collated all your requests for help, taken the games most in demand and blown them wide open. So if you requested help on a game make sure you don't miss our massive cheat special.

As well as specific game tips we'll also be explaining the subtleties of adventures. One of the country's top adventure writers will be showing us just how adventures work and revealing a truck load of top-flight puzzle solving techniques. And $C F$ will go all nostalgic when as we look back at one of the C64's odder moments. Plus an exclusive investigation into the daft names of games.

Along with all this - if we can find room will be all the regular reviews, previews, news, letters, techie tips and tape talk. They're all going to be part of the mega-mag know as Commodore Format. So make sure you're there for CF35 on 27th July. You'd have to be daft not to!

## SAVE Cr

Don't worry, we're not in danger. But with demand for CF as strong as ever YOU are! Every month the mag sells out real fast, so to make sure that you get hold of a copy fill out this form to reserve yourself a copy.

## IF IT'S WEDNESDAY IT MUST BE SALEM

Dear Commodore Format,
I'm really worried about Mum, Dad and Debit. They've gone all spooky! Dad's taken to hanging from the ceiling, mum won't (can't?) go out in bright sunlight and Debit now sleeps in a satin-lined wooden box!

It all started during our week-long break from the cruise ship. We drove into a town called Salem. When we arrived I nipped straight down to the local computer store to play The Addams Family while my folks went off to the motel. When I got back to our rooms all the lights were off and everything was silent.

I crept into the house and was startled to see mum feeding raw meat to a plant, a disembodied hand playing a harpsichord and Dad throwing knives at Debit. And from here it only got weirder! Guys I'm really worried, I don't know what's happened.

Oh, and while I think of it l've also sent you this odd canister-flasktype thing that fell off an army truck on our way down to Salem. I've sent it over for TMB to have a look at, as I haven't got a clue what it is. Hang on, there's some writing here. Hmmm, I wonder what ERVE GAS is?
Yours, Roger
Salem, Massachusetts.


## OLHE \& TRENTPS FOOTBAN FJBUA

Just when you thought the football season was dead and buried, here comes our very own Saint and Greavsie (but we're not telling you which one's which) to torment all you non-footie folk. Here's our little test of terrace triv'.
1 Who won the 1992/3 Coca Cola Cup?
2 Who won the 1992/3 FA Cup?
3 Who won the First Division play-offs?
4 Which brilliant Bristol team was relegated to the Second Division?
5 Why are you laughing?
6 Spell Gianluca Vialli.
7 Why will England be playing in America in 1993, a year before the World Cup? 8 Why won't England be playing in America in 1994, the year of the World Cup? 9 Why has Des Walker lost form?
10 Graham Taylor. Discuss? (Disgust? - Ed)
Answers below

Dear Mr/Mrs/Ms Newsagent,
Please reserve me a copy of that fine periodical that bears the legend Commodore Format proudly upon its cover. I believe that the next issue, CF35, is due to be published on the 27th day of the month of July in the year of our Lord 1993!
MY NAME

MY ADDRESS

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