




## SKATE OF THE ART

The crazy game for all Skateboard fans Out on the Amiga from mid July. Don't miss it.

## THE CHAMP

Endorse by the WORLD BOXING COUNCIL, THE CHAMP is simply the most realistic boxing simulation ever written for the computer:

- With the original 'Rockys' theme tune -
- More than 1300 Frames of animation -
- One or two player mode -

A Booklet with the histiry and rules of boxing -

- Keyring with mini boxing gloves and a lot more. No surprise that everyone is enthusiastic about it: TILT HIT in France, SMASH GOLDMEDAL in Germany ... a great simulation.
Now available for Amiga soon out on Atari ST, C64, Amstrad and Spectrum


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## Speclals



Robocop

## 16 ROBOCOP

Ocean's conversion of the Data East coinop makes its long awaited appearance on the Amiga. Plus another CU special compo offering the chance to win a video recorder.

## 80 ONE FOR THE MONEY

The jukebox is a hundred years old. We look back at an age when the machines symbolized liberation and youth culture.


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RVF

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## CLOUGHIE IN EUROPE

IDS are to release their second game in conjunction with Mr Timid himself, Brian Clough. Brian Clough's European Superleague will be a role playing management simulation game, which will be available on both the Amiga and the 64, hopefully around Autumn time. Mal Thomas of CDS told us that it will be a football game in the 'cinemaware' tradition, and will be much more strategic than the more traditional 'kick and run' type of game. It will, for example, have options along the lines of calling a board meeting, and attempting to persuade the board to either buy or sell a particular player. What the Buzzboys want to know, however, is if there is an option to slap any pitch invaders about?


## IN TITLE?

mad referee no less, and the objective will be to win everything in sight - League Championship, FA Cup, League Cup, Sherpa Van Trophy, the lot. If this is to be an accurate Man. Utd sim, of course, this is going to be practically impossible. Due out on both formats around Christmas.

# PROMISED LAND 

Those nice people at Electronic Art obviously knowing a good thing when they see one, have brought out a data disk for Populous, containing five whole new worlds to impose your will on. The worlds are: Revolution Fran caise, with cafés, guillotines and windmills(!), Silly Land, Blockland, where everything is made out of blocks, The Wild West, which looks like a Sergio Leone movie, and finally Samurai Land, where the ninjas and peasants fight it out for overall supremacy. All five have completely new graphics, look jolly pretty, and will require new strategies for the would-be tyrant.

## GEMINI WING

It's Earth v Aliens time again, this time the conflict is inspired by the SoonDay Spirit newspaper headline DIE MUTANT ALIEN SCUM'. They could handile the ALIEN TURNED ME INTO A LENTIL' stuff, but this went too far, and tons of aliens are freading this way to kill us.

Fortunately, whilst the aliens were busy turning humans into wholefoods, they failed to notice that Earth had developed the 'Gemini Wing', a totally awesome fighting craft, with which we are going to defeat the aliens. Well aren't we? Virgin's scrolling shoot em up should be available on both
 formats in August.

## FIENDISH FREDDY'S BIG TOP O'FUN



Rrrroll up! Rerroll up! Take the opportunity to participate in six death defying circus events. Amongst these, ladeez han gunnermen, you will find knife throwing (oooh), trapeze walking (oooh), high diving (ooooh), and the human cannon ball (Oooooh). This may sound straightforward, but not when you add Fiendish Freddie, the evil circus saboteur sent in by unscrupulous scoundrels, who will attempt to bring about your demise at every available opportunity. Big Top o' Fun will be coming to a town near you in August. courtesy of Mindscape.

## LEONARDO

Starbyte, throwing social responsibility to the wind, brings computer gamers the chance to steal everything you can get your hands on. You must help Leonardo to avoid the alarms, guards and ghosts as he goes on a mission to tealeaf through fifty banks, museums and warehouses. The Sunday Times features games like this under headlines like 'Children taught to steal by computer outrage' when they run out of proper news. Out now,
 on both formats.


## EDGE'S PUNISHING SCHEDULE

1he Edge have pulled off a major coup with the licensing of the unsigned Punisher film licence, based on the Marvel Comics character.
The film, previewed in last month's CU , stars Dolph Lundgren, and both game and film will be released simul-
taneously in November. In addition, The Edge has, it seems, signed up practically every Marvel Comics character and comic, and following The Punisher, the next game to be released will be $X$-Men just before Christmas.
Details about both games
are sketchy at the moment, but The Edge has identified them as its major Christmas releases, and state confidently that $X$-Men fans will be 'ecstatic' with the conversion. As well as the Marvel games, the Edge have the second Garfield game, plus Peanuts and Miami Vice lined up for Autumn release.

- erman company Rainbow Arts have introduced a new compilation of games for the 64 available only on CD. They have found a way of storing data in a $C D$ format, and have produced a package containing the $C D$. and a special adaptor which will connect any CD player to your 64. Each game can be loaded in about thirty seconds, and they are: Dropzone, Solomon's Key, Impossible Mission, Loderunner, Jinks, M.U.L.E., Fist II, David's Midnight Magic, and Mission Elevator. Funnily enough the press release doesn't mention the price.


## CD ROM FOR 64




# CRL <br> GO FOR GOLD 

P
rogrammed by Actual Screenshots International Athletics is to be the next release from CRL. It will have nine different events, broken down into three categories, running, jumping and throwing. It will have two player simultaneous action, commentary from a sports presenter, and a close up 'TV' view of the excitement. Out on both formats before you can say anabolic steroids.

## XENOPHOBE

Xenophobe, from Micro Style, is a conversion of the arcade game of the same name, a two player shoot 'em up, in which the objective is to clear each level of Xenos within a set time. It has all the usual things to be found in the hip shoot 'em up of today, and according to the press release, xenophobia is a fear of anything alien. Not according to our OED lads, look it up.

## TALESPIN

Talespin, from Microdeal, is a graphic adventure creator for the Amiga. Completely mouse driven, it allows the creation of adventures in a very straightforward manner. IFF, Degas, and Neo files can be imported and used, and it comes with a free sample adventure. It can also be used to create other applications, such as presentations and stories, but beware, it requires one meg. Review next ish.

## VERMINATOR

Rainbird go green with their latest release, in which the aim is to rid a huge oak tree of vermin. Right on! Ench bug-eyed bug which you destroy will improve your bank balance, and enable you to visit the shop to buy better bug-bashing weapons. Alternatively, try the bank or casino, or even the mob, all of which may improve your bank balance, but some of which may ultimately damage your health if you are a little late with a repayment. Out soon on the Amiga.


## OMNIPLAY HORSE RACING

The chance to join that dedicated band of enthusiasts which includes the Queen Mum and Arthur Daley will soon be brought to you by Mindscape. This game allows you to examine the horses' form and the going, before placing a bet and, hopefully, amassing a fortune. Later modules will allow you to own and train horses, and race against some of this century's most famous horses. Making an appearance before Shergar does, on both formats.



Get out the old ten gallon hat, wear a hairpiece, and put on your most phoney American accent, 'cos It's time to out-JR JR as you take

## KAISER

The latest game from Switzerland's Linel is to be a strategy game, in which the aim is to rise from the humble position of prole with a few fields of corn, to the highest position in the land, Kaiser. This is done by literally building on your success, at first just the odd corn mill, later villages, towns and cities as you increase your wealth and power. Perhaps it should be subtitled Petit Bourgeoisle. Kaiser will be a complex strategy game, specifically written for the Amiga.

The four Lords of Doom have prepared themselves to take over the world. Following the 'from small acorns' scheme of things, they have only taken over a small village so far, and it is up to you and three companies to find the four Lords of Doom in the village, and thwart their evil plans. The player can visit all of the houses in the village, and all the rooms in the old mansion overlooking the town. The player will need to use various objects within the game, all of which are picked up by clicking an icon over them. The game can be seen from the first person perspective of any of the four players, and the game will be available from the new Linel label 'Thriller' later this year.


Bill the Bowman's son has been kidnapped by Gessler's Black Knights for refusing to worship Prince Frederick's hat. Not surprisingly, Bill's a bit put out by this, and sets out on a quest to find his son, which takes place in and around the village of Claremont. Tell must use his skill with the crossbow in addition to intelligent strategy if he is to succeed in his mission, brought to you by Screen 7.


666, which is where the adventure takes places. The house has many inhabitants and ghosts, and all will be encountered in the quest to solve the problem of Ooze. Ooze is a light-hearted adventure, the packaging contains a solicitors letter and a death certificate, and one of the characters is called Marie En Toilet. Ermmm. . . .

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|  | NE SILKWORM VI | VIRGIN |
|  | NE MICROPROSE SOCCER MIC | MICROPROSE |
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|  | 20 GUNSHIP M | MICROPROSE |
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|  | 3 NE ARCADE FLIGHT SIMULATOR | CODE MASTERS |
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|  | 15 NE RAMBO | HIT SQuad |
|  | 16 9 SHANGHAI WARRIORS | PLAYERS |
|  | 1716 RUN THE GAUMILT | OCEAN |
|  | 18 NE OPEBATION WOLF | OCEAN |
|  | 1988 SUPER CYCLE | KIXX |
|  | $20 \quad 12$ SPEED BALL | MIRRORSOFT |



AMICA CHART

C64 CHART

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## ALL TIME

FAVOURITE JUKEBOX REQUESTS

## Evergreens

New York, New York, (Frank Sinatra), Stand by Your Man
(Tammy Wynette), Baby Love (The Supremes), Three Times
a Lady (The Commodores).
Rock ' $n$ ' Roll
C'mon Everybody (Eddie Cocran), Be Bop a Lu La (Gene Vincent).
"Progressive"
Whiter shade of Pale (Procul Harem), Knights in White Satin
(The Moody Blues), Hi Ho Silver Lining (Jeff Beck).
Golden Oldies
Hotel Callfornia (the Eagles), Money for Nothing (Dire
Straits), Year of the Cat (Al Stewart).
Current
Manchild (Nenah Cherry), Mystify (inXS), Sealed with a Kiss (Jason Donovan).


## DON'T LET THE AUSSIE BLUES GET TO YOU

POOLSBUSTER64 IS THE ONLY POOLS PROGRAM AT HOME "DOWN UNDER", AS WELL AS IN EUROPE. Every week-end it guides you through the rough terrain of the Aussie leagues to successful predictions over and over, again and again. It's a very successful conversion from the ATARI ST program. Go on, don't hesitate, join the ATARI winners. It works for any game, cup or league, either British or Australian or European. It has a massive database, it's user friendly, it gives you a choice at the final completion of the coupon. Perfect for pools, ideal for fixed odds. Are you superstitious? Do you believe in the power of the stars? If you answer "yes" to any of the above 2 questions then POOLSBUSTER64 is for you. Its MAGIK PREDICTION function will happily accommodate you. Do you believe in the power of the numbers? If the answer is yes, then POOLSBUSTER64 has something for you as well. Its "PREDICTION BY ELIMINATION" function will fulfil your exect requirements. And for the rest of us mortals, it will manipulate all the required information and it will give four different forecasts: a normal results forecast, a best homes, a best draws and a best aways forecast. Are you into probabilities, percentages and bar graph representations? POOLSBUSTER64 will give them to you. In fact it has everything that you need for a successful forecast. It is truly the ultimate and the state-of-the-art pools program. So hurry, order your copy today and win the pools tomorrow.

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## DEMO

Thanks are due this month to Seventeen Bit who are responsible for most of this issue's demos. Thanks to all those who sent in submissions, particularly Ireland's Exocet who sent two - that they didn't get printed is no reflection on the quality but more on their visual impact. Anyone wishing to let others see their genius should send their demos to CU Demos, Priory Court, 30-32 Farringdon Lane, London EC1R 3AU.

RAY TRACES: are common enough, but these were done by Andy Purser using a program he constructed himself. The chances are it may well appear commercially too.


HUEY: what kind of month would it be if we didn't feature one of Tobias Richter's superb animations? This one features some of the Bond theme and the helicopter starting to take off.


WORLD SHUT YOUR MOUTH: a three part demo sent direct to CU by Bjorn of the Swedish group Xakk features a parallax scrolling planet (pictured) and a couple of impressive scrollies on a neat graphic that allow you to set the parameters.


WATERSHIP DOWN: bright eyes? You don't need them if you've a digitiser. Anyone got a shotgun handy?



SAMPLEMIX2: the second cut up sound disk from Cool G. A nice still (which would have looked even better animated) and an excellent mix featuring among many other cuts, Vincent Price's laugh from Thriller.


PAINTINGS; is how Dutchman Henk Van Der Graaf prefers his work to be described. His 16 colour high res pictures are certainly good enough for him to already have found work in Australia where he now lives.


15


ince its release just before Christmas time, Robocop has cleaned up, becoming the biggest selling computer game on all formats ever. The one version that remained unreleased until now was the Amiga, but that looks set to boost sales still further.




End of level two - a fan full of perps.

The success of the licence piece of software is its depth and clearly has as much to do with the execution. cult status of the film as the quality The game consists of around a of the conversions. Robomania dozen sequences broken up into looks set to last a long time with a levels. A scrolling section is folsequel (scripted by Frank Miller) lowed by an interlude which already in the pipeline. It may not breaks up the play and gives the be Batman, but it's probably the impression of some diversity. next best thing.

As a game Robocop provides from riot torn streets, through junk little more than the standard hori- yards and drug factories, Robo zontal beat 'em up that can be has to practice his shooting skills found in any number of titles. at the range before using them on What turns it into an impressive a perp holding a hostage, or iden-
tifying a suspect.
The action is busy and challenging. As you make your way through the levels Robo can grab extra ammunition and weapons by breaking open packing cases. Probably the most crucial, are the tins of baby food. Robo's penchant for these, assuming they're not full of glass, will replenish his energy. Even with these though, the game still remains very tough.

There are enhancements over the ST version, most obviously to the sound with several samples from the film. As the game loads

Anyone know this man?



Robocop can be heard reciting his code "to serve the community, protect the innocent and uphold the law", elsewhere there's the odd "thank you for your cooperation", although this and some of the spot effects could be beefier. The tune too could have been better. It still remains too much a port over to justify the extra five pound price tag.
Graphically the game disappoints on one major point. The promise of a full-screen layout hasn't materialised and there's still that annoying border cramp-


ing the look. Otherwise the they see this. It could have been Take care you only hit the suspect. graphics look adequate without superb.
ever being impressive - car wrecks in the junk yards look like the blocks they are rather than the irregular shapes they should be. More attention to detail would have been nice

Robocop will succeed, as it has done on every other format. Compared to these its quality is more than good enough, but I can't help voicing some of the disappointment that others will feel when

Mike Pattenden

## SOUND GRAPHICS PLAYABILITY 85\% LASTABILITY 85\% $80 \%$ $78 \%$ $85 \%$ $85 \%$ O



## COP THIS!

(Robo) Cop a load of these prizes! Following the last competition when we gave a JVC video recorder away, we were snowed under by billions of entries. In fact, so successful was it, that we decided to repeat it again. This time however, not only do we have a VCR, but we have FIVE copies of the Robocop video to give away, and FIFTEEN copies of the game, courtesy of Ocean.

All you have to do to win one of these truly brilliant prizes is answer the following three easy questions.



Flying low over the enemy power plant.


Woo wool It's the Starlight Express.

 (Nathation


## Mirrorsoft

Price: $£ 19.99$


## Don't shootl It's one of yours!




0sually, an add-on disk, such as the Sublogic Scenery Disks, aren't really worth reviewing, but when an entire expansion system appears that almost creates a new game it's worth a little coverage. Falcon Mission Disk: Volume 1 is such a disk.
First of all I'd better explain what a mission disk actually is. Rather than simply creating scenery to fly around, à la Sublogic, Falcon is like being posted to active service after training. It
doesn't just create a new environment, there is a whole battle against a new enemy that puts you up against new and advanced hardware.
The flight sim aspect of Falcon has remained almost unchanged. The only things that have been altered are the one or two small in-flight 'bugs' that remained in the finished version of the game, which makes it much easier to land the craft now.
The stark desert landscape of the original has now been replaced with a luscious green terrain, full of trees and bushes. The
regular pyramids of the original have been replaced by irregular mountains. There is far more to explore with extra ground features, like fields and buildings, and even a large lake, that does serve a purpose.
Which brings me, rather nicely, to the other more significant difference. Rather than being just a series of disconnected missions to be taken in any order as many times as you like, FMD1 contains a full scale offensive against your base. The first line of attack is the tanks trying to overrun your base. These are deposited just a mile or two north of your airfield by landing craft that move across the lake. Behind that you have trucks carrying supplies, trains also carrying supplies, supported by MiG29s (rather than the 25 s in the original) and finally the three strongholds, the tank factory, the

## GRAPHICS 97\% SOUND PLAYABILITY 94\% LASTABILITY 97\%

munitions arsenal and the power station.

Glancing through the list of missions, you quickly notice that they follow a logical sequence of attack against the enemy, and should all the missions be completed sequentially, then the war is won.
Unlike the original Falcon, mission results do have an effect on other missions. Things stay 'dead' for a certain number of missions. Knock out a bridge to stop the trucks from reaching their destination, and the bridge stays knocked out for the next three missions you play, for example, which helps to lighten the load.
Falcon mission is big, it's involving, and it manages to take the capabilities of an excellent product and use them to much better effect than the original ever did. If you have Falcon, this is a must, if you don't, why? Tony Dillon




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Rotary carnage.

Mr


0ccasionally - about Muddy and his minions are des- the quickest way to get rid of five times a month troying all life on a verdant little them, but involves getting under-- a game appears planet, and it is your duty as with a scenario number one Cosmic Heli Patrol holes than a Tetley's tea bag. Mr restore the ecological balance.

Heli maintains this tradition: An evil scientist names simply 'The


One of the major ways of restoring the ecological balance is to blast your way through huge chunks of rock and earth by bomb, bullet and missile. Methinks eve Greenpeace might not approve. As a Cosmic Heli Patrol pilot, you fly a Cosmic Heli Patrol helicopter, which resembles a cute mutvily helis, with feet. Muddy's min fitt ve been smiling when they helicopter with feet. Muddy's min- fitted your rotors and cute feet, ions also resemble helicopters, because you aren't entirely defencealthough in a variety of sizes and less. As stated, you begin with a guises. The smaller ones are fairly vertically firing missile and forward easy to dispatch, whilst the larger facing gun, but along the way the ones will require a number of option to 'power up' your weapons bullets, or a missile. The missile is arises. By blasting away chunks of


Bipedal whirly wigs.
rock, you will reveal crystals of various sizes, which, if collected, will increase the money in your bank account. Shops in the form of wall plaques will also be revealed by blasting, and providing you have enough money in the bank, flying over these will increase your weaponry.
Initially I wasn't too impressed with Mr Heli, as I felt that, although it was entertaining enough, the gameplay was very slow and awkward. Over time, however, and once you have the hang of blasting the rocks and collecting crystals, the addictiveness begins to eat away at your trigger finger. The graphics are attractive and colourful, and perfectly suitable for the job. The sound is great, with an attractive helicopter whirring sound, a satisfying explosion whenever you kill an enemy, and a brilliant little tune to boot.
My one gripe is that it is a little slow, both in the rate of scrolling, and the speed of your ship, which, when you can't move out of the way of an enemy who has just materialised simply because you were too close to it, does add to the frustration. Minor grips aside, it is an addictive little shoot 'em up. and another great game from those programmers at Probe.

Sean Kelly




## IN 1977 VOYAGERII WAS LAUNCHED - NNIIIIGALL LIFE FORUSINTHE 



Luke Snayles - returning to Earth after completing a 50 year sentence of "investigative exploration" is not a man you'd wish to meet. After half a century of solitude, he's A T A R I S T 819.99

6 Central Street Manchester M2 5NS
bored and hungry. On Earth the gate crashers are about to arrive - they are the ROXIZ, but Snayles has got other ideas - no-one, but NO-ONE is going to spoil his home-coming party!

| A | M | I | G | A |  |
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Telephone: 0618326633
Telex: 669977 OCEANS G


Indy's led to the Zeppelin.


# INDIANA JONES 

 ant Last CRUSADEut is it? I mean, scenes in the movie. when you make First of all, we see Indy as a level a movie as ama- boy, climbing through some Indy himself is a fine figure of a zingly successful caves, avoiding loads of bad guys sprite. Large, and for the most as "Indiana and already displaying his pro- part, well-animated. He looks a bit Jones and the Last Crusade", you wess with a bullwhip. Then we strange when he jumps or falls; ain't going to end it all there, are catch Indy doing the archaeologic- but otherwise he looks great. you? Sequels must follow, and I'm al business around a ruined tem- The backdrops are very nicely willing to lay money that they will. ple. On the third level Indy, now a drawn indeed. I really like the way But back to the subject of the grown man, is racing around a the scenery in level one gets review, Indiana Jones - The Ac- German Zeppelin, and finally we darker as your torch burns out. tion Game, first of two titles com- see Indy searching for The Holy And now, the bad news. Amiga ing from the Lucasfilm stable Grail. Doesn't he know the Monty Indy plays badly. Very badly inbased around this intrepid explor- Python team have it?
er's final adventure, You, as Indy. The game is played as a sideplayability errors, just a whole bundle of small annoying ones. your way through four different very nicely it does. I especially like Like the way it's just luck whether escapades, all based around the way the Zeppelin is constantly you die or not, for example, when



64 version should be available soon. Graphically it won't come up to the Amiga standard, but is still looking good nonetheless. Looks like it's going to be just as much fun to play as the Amiga version. More news as we get it.
you have to climb a rope to get past a knife thrower, it's all down to chance whether he throws the knife or not. Also, Indy takes a long time to respond, which makes combat difficult. On top of all that, it seems a little unsure as to where the edges of certain platforms are, which means that you end up falling through quite a few ledges.

It could have been good. It's just that they didn't do it right. I'd prefer something like Rick Dangerous. But maybe the adventure game will be good.

Tony Dillon


J
ames Bond turns The film, however, does num- movie.
plain Jane in ber among the series' most spec007's eighteenth tacular stunts and it's from these cinematic ex- that the software licence takes its Kill. Gone are the days of the Sun-loving agent, three-nippled foes and global villainy; in Timothy they only had its storyboe Dalton's Bond we have a Mail on work from, programmers, Quixel, Sunday Rambo who battles South and artist, Tony West, have manAmerican drugs barons and a bog-standard plot alike.
ploit, Licence to cue, by linking together six action cue, by linking together six action sequences. And considering that they only had its storyboard to aged to come up with a game that

Felix Leiter, James Bond's wrinkly chum, has had a leg bitten off by sharks, and his beautiful American bride has been shot dead on their honeymoon. Understandably, this sends our James a little bit doolally and he sets off on a mission to wipe out the man responsible: Sanchez, a villain who aims to corner the Pacific's drug trade.
 to Kill comes complete with spectacular gun fire, explosions, and generally a better soundtrack than its Amiga counterpart. Also features the famous "following gunsight" which opens every Bond film, and the game has an altogether "pacier" feel. SOUND: GRAPHICS: PLAYABILITY: LASTABILITY: OVERALL: 74\% 66\% $66 \%$
$65 \%$ 70\%
screen Scene film: otherwise I'd say that this is pretty standard fare. No Oscars for this licence, I'm afraid.

Which brings me to the final point. Licence to Kill is OK, but it's a game that rests on the laurels of its big name attraction. Pretty to

Steve James

You have to "hook" Sanchez's plane before it reaches Cuba.



F
Flying in the face weapons, take it up, and use it to of the stiff com- best possible effect to complete petition of Falcon designated missions. Unlike FalMission Disk 1, con however, you aren't restricted F-16 makes a to a small selection of set mislong awaited appearance, and happily is no sitting duck.
The basic premise is the same as Mirrorsoft's F-16 simulation. Take an F-16, load it up with


 sions. Much more in the vein of simulators such as Gunship, you choose a field of combat from a selection of five options, such as tank-busting and bombing runs. The computer then generates a mission for you, and one thing you can be sure of is that no two missions will be the same.

So, the 'game', and I use the term merely to describe a piece of software used as entertainment: be warned, this is no toy, has a lot more variety to it than Falcon. What else is different? What about the handling?

Both Falcon and F-16 claim to be accurate simulations, yet the

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## Screen Scene <br>  <br> AMIGA (st xu* 3




Approaching the airfield

## 64

Unfortunately the C64 version is still behind schedule due to problems of squeezing all the data onto one disk. Update upon release.

The Mission Control Map UPDATE
handling of the craft is incredibly points, there are bad points. I, for different. In F-16, when you bank one, didn't find it half as challengthe 'plane, it turns in a way which ing, or even as entertaining as is totally different to the 'bank- Falcon. The strength and Al of the and-pull' method employed in Fal- enemy isn't half as good in F-16, con. With this behind you, the craft and you do feel like you are is much easier to manoeuvre, playing against a computer.

## Pentagon-shaped mission selection

 screen tieby giving you a much easier time in combat, which in turn make it a lot more fun for the inexperienced pilot.
You can also do a lot more planning toward a mission. Before each flight you are shown a computerised map that presents you with more information than you could ever require. With this map you can mark computer waypoints, find the enemy, and even draw a Def Leppard logo!

However, with all these good
The graphics aren't anywhere near as good as Falcon. The landscapes are sparse, with an electricity pylon and a mound of dirt here and there. The update is slow, and the use of colour is loud and unconvincing.

F-16 is a very complex title that will no doubt prove rewarding in time. The only problem being that it isn't involving enough. Remember, to get anything out of a game, you have to be able to get into it.

Tony Dillon

## GRAPHICS SOUND PLAYABILITY 71\% LASTABILITY 79\%

NOW IS THE TIME TAKE

## 64

## CURSE AZURE BONDS it and <br> screen scene

You've journeyed to the Pool of Radiance. You've been hailed as a Hero of the Lance. You've braved the dangers of the town of Hillsfar, and now it comes to this. You wake up one morning, groggy, with all your possessions stolen and no idea how it all happened. A passing landlord tells you that you were brought in after being attacked over a month ago, and this is the first time you've stirred since.
But that's not all. Your companions and yourself have five strange tattoo-like markings on each sword arm. It turns out that these azure coloured markings, known as bonds, are the result of a posession-like spell. When the bonds glow, you must do their bidding. The first one, for example, forces you to attack the royal carriage as it goes past, getting you into a nasty scrape with some royal guards.
The game follows along the same style as Pool of Radiance, the first in the utterly brilliant series of AD\&D games. The main part of the adventuring is carried out in the first person perspective, not completely unlike the system employed in The Bard's Tale series.

So, you've woken up, you go to see Gypsy Lea who tells you all about the bonds and your fate in connection with them; you've gone to see a weaponsmith, and bought stacks of really sharp toys

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Work it to the bone.


Screen Scene



It would be far too Music by Bill Conti, it says on the events. First is the skipping rope, easy to say that intro screen. Bet you can't guess where you have to make the boxer Linel's latest what they used for an intro sound- jump in time with the rope. Then offering takes track? The intro sequence is, as there's the sandbag, where a more than a ever with Linel products, impress- sparring partner will show you a slight leaf from the Rocky movie. ive with a sampled master of punch or two, and you have to ceremonies introduction.
To start off with, you aren't the there's the speedball, where you champ. The idea is to become the have to waggle the joystick in time champ. Easy enough. You start with the boxers hands, keeping up life as a bum (that's tramp to us a steady rhythm. English folk), fighting in the The Champ is polished, it's streets, resplendent in your pro- amazingly professional and full of boxing gear. Win a couple of briliant little touches. The referee fights, and you get spotted by a counts out the knockdowns, the manager, who signs you up and boxers fight realistically, the automatically puts you onto the soundtrack is brilliant, and the professional circuit - after a bit of graphics are amazing. training of course.

However The Champ takes a
Training is made up of three dive in the first because of its poor
gameplay. For a start half the punches only seem to work half the time and secondly, the game is far too easy. What sort of challenge is there if your opponent keeps on falling? Boxing is a tough game to simulate and Linel haven't overcome that.
And that's what stops The Champ from being a champ. It plays so badly that suddenly all the sparkly bits don't seem so sparkly anymore.

## Tony Dillon

GRAPHICS
SOUND
PLAYABILITY
LASTABILITY

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## Screen Scene

This dumb duck's a gonner.

## HAWKEY



D
ice graphics and nice sound do not a game

## 

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make, I once deserving hit out of this would flashes. This denotes whether the heard it said. To have been to completely redesign item is to your left or right. the 8 -bit game. They haven't.

The only thing stopping you
my mind, large and all- is something to be found, be it part sprites are blocky, and the animaencompassing as it is, the only of a puzzle or extra ammunition tion on the main sprite is the en ene thawk's eyes same. Funnily enough, the scroll-

The only thing stopping you ravel over lots of scrolling land- enemies. scape, you have to collect four dumb sprites who run at you from by the Amiga version. A dull pieces of a puzzle. Finding the both sides and deplete your ener- game, and one definitely not worth puzzle isn't a problem, after all, gy if you touch them. Some are buying.
there aren't a lot of different big, some are small, all of them places to look, only left or right. To are incredibly stupid.
make what might not quite be the So, we've established the game hardest decision you've ever had is the same. Any change to the to make, you use your hawk eyes. graphics is almost negligible, At the top of the screen, there are apart from the fact that they are in two hawk faces. Whenever there a higher resolution. Some of the




## V <br> 




A kiwi that has his friends stolen by an Atlantic seal and has to rescue them by flying around on balloons and throwing bombs at teddies riding on inflatable ducks? Oh, please leave it out, what was the programmer of The New Zealand Story on when he came up with this game idea?
In truth, The New Zealand Story

## Ocean Price: £24.99



Level 1.4 and a ray-baned teddy has you covered.
is a cleverly constructed example attempt to discover the other as a collection of levels that take of that incresingly rare specimen kiwis, imprisoned in cages. There you up and down in one dimenhoppus frustratus, commonly are five stages and four maps to sion have long since passed, known as the platform game. each stage, turning the game into there are variations here. The

Take control of the little yellow an equivalent of twenty levels of New Zealand Story is set in a bird (Tiki to you) and make your mouth-foaming action. national park where there is land, way around the screens in an The days of the platform game sea and air and the kiwi has to


# Nobody Does it Better 



$\Delta$"frantic, non- introductory paragraph without a the power ladder, so it's important on level three, which seems to stop blast 'em up loony scenario to rely on? Ho well, set in the farthest on with the game. reaches of Inner Inner Space is, you may have Space", it says guessed, a straightforward, horihere, and that is, unfortunately, zontally scrolling shoot 'em up, the whole scenario. No invading with nine levels in a multi-load hordes, no defence of the planet, format. On each, wave upon wave not even an "only one pilot brave of aliens will attack you. In addiand good enough". This is not tion there are geographical good enough. Don't people real- hazards, and the now obligatory ise how difficult it is to write an end-of-level alien.

Should a complete wave of five or six aliens be destroyed, then a "pulsing energy capsule" will float towards you. If you collect it then the first in a row of icons at the bottom of the screen will begin flashing, indicating that a new weapon is available at the press of a button. Collecting a number of capsules without trading them in will give you better weapons to chose from. Failure to destroy any wave will result in the available weapon slipping one step down
to be consistent. No that it matters indicate that little time or imaginamuch in reality, as most of the tion was invested when putting weapons make little difference, this game together.
except for the bizarre 'lose a lifet This is also indicated by the weapon, which if used, kills you. large number of glitches apparent, Really useful, that one.
for example your craft sinks to the
The parallax scrolling on Inner bottom of the screen without Space is excellent, and attractive- warning, or the game locks up for ly done. Unfortunately, this is one thirty seconds at the end. These of the very few good points about are just the major ones, but there this game, as for the most part it is are plenty of minor ones which a hackneyed collection of ideas just make the game scruffy and programmed with very little im- unattractive.
agination. The graphics, particularly the backgrounds, are uninspiring and colourless, and the weich has the appearance of spiring and colourless, and the being rushed, and barely worth aliens aren't much better, for the ten quid of anyone's money.
most part being monochromatic or duo-coloured. The end-of-level aliens, often a showpiece of a programmer's skills, in this case are nothing more than large inanimate blobs, resembling nothing more much apart from an eggcup. The first level alien was-repeated

## Sean Kelly

## SOUND

GRAPHICS PLAYABILITY $42 \%$ LASTABILITY





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derry is the cutest mouse you ever did see, but that nasty Tom cat wants to get him...' hold on a minute, are we talking about the same vicious, sadistic little rodent we all know and love? The mouse who drops irons on Tom's head and plugs his tail into the mains, surely not? From Magic Bytes badly translated manual you'd never know, or perhaps this is just their strange Germanic sense of humour.
There are two possibilities, either Tom \& Jerry is so radically brilliant it will have been worth an eighteen month wait, or it's so dismal they couldn't put it off any longer. See if you can guess which from this short description; it's a platform game. You drop 'bombs' on Tom's head, you have to eat a lot of cheese.
Tom \& Jerry's gameplay is so mind numbingly boring it even makes an evening in the pub with Mike Pattenden seem like a seven goal Wembley Cup final. (You're funny! Ed). Jerry has to leap from piece to piece of furniture and shelving avoiding Tom's leaping

attacks. Items like the sofa can be which rather unhelpfully makes used, with repeated bouncing, to both of them dance about with gain the height necessary to make glee.
the jumps onto the top shelves. I'm afraid the rest of the game Only on the highest shelves are isn't even up to that standard of you safe from attack, which inspiration. The sound is a poor makes it a particularly difficult imitation of the Tom \& Jerry game to play because getting up theme, but the graphics are of a there is nigh impossible without reasonable quality, the sprites are getting stomped by the cat and large and well defined, although when you're up there, unless movement is slow and bulky, Tom there happens to be a bomb to being especially bad. However drop, there's nothing to do. Fortu- good they were, they couldn't nately there are a couple of dis- relieve game play which combines tractions thrown in. Jerry can ad- being very dull with being very ust the telly which has the effect difficult. Not a winning combinaof keeping Tom glued to the tion.
goggle-box for a couple of mi- Tom \& Jerry is a license which nutes and he can adjust the radio, had great potential for a game,

## Screen scene

plenty of gratuitous violence and lightning pace, all Magic Bytes have put into this is the barest minimum to get it into the shops with a nice piccy on the back with the hope that some hapless soul hasn't read a review like this. Less of a Merrie Melodie and more of a dismal dirge, Magic Bytes should stick to songwriting, here's a gem from their instruction manual: 'Dutch cheese is red/ Danish is bluel German cheese smells like an old jogger's shoe.' Mark Heley




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dungeons - pitjumping has to be The layout of the maps is identimed to perfection here tical to the 64 version, but the or a beastie is likely to location of the various magic obpop out and munch you. jects you need to collect has Succeed this far and changed. These are crucial to only the demon and completing the game. Most imporDrax tant are items like keys which await. open the portculis in the castle and the shield which guards against the demon's fire, and the jewel which disables the Living Idol which you must pass before you can get at Drax.

Barbarian II is essentially the same challenge it was on the 64 Hack your way past the gruesome array of creatures that pop up every few moments, jump and run carefully through the screens and locate the objects. The nature of the game hasn't developed any. That might disappoint the more demanding among you, but it's hard to criticise this conversion. The graphics are large and well drawn. There are plenty of neat effects to complement them as well - head-chopping, mauling, and merciless clubbing - all accompanied by brilliant sampled noises. Sound is superb with
numerous grunts and groans, a There is something undeniably brilliant dropping cry as you dis- 8 bit about Barbarian II. Its conappear down a pit and beety ception and gameplay are tried thwacks as you lay into the and tested, but that really doesn't beasts. The manic clucking of the put me off, it's too well executed. mutant chicken will be enough to It's still a must for fans of desend you running in the opposite capitation everywhere.

Mike Pattenden


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mity Island is in the middle of a crisis. A female swimmer was almost completely eaten by a huge shark. All the police have been able to deduc̣e from what's left is that she had dandruff - they
a ship that sank on a nearby reef. Your first task is to locate and recover the four bits of a gun and then find the mega-bullets needed to kill Jaws and win the game.

Basically, Jaws is one of those games in which you search a large map for different items whilst killing anything that moves. Like so many other games of this type the playing area lacks variety and becomes very boring VERY quickly. After about five minutes you start to realise that you've probably seen everything that the game has to offer, another five minutes and you'll be reaching for the on/off switch (if you're still conscious that is).

Some of the sprites are quite reasonable but are let down primarily by the game itself, and also by the lack of animation and variety. The graphics that make up the backgrounds are not as good as the sprites and some of them could quite easily be mistaken for corrupt blocks.

Sound is just about on par with the rest of the game. All you get is a semi-decent rendition of the Jaws theme tune and a few feeble sound effects.

If the game had been based more closely on the film then Jaws could have been a real winner but as it stands I just can't see anyone getting any enjoyment out of it for more than about half an hour.

You won't have to bother killing Jaws, I think that Screen 7 have done that quite adequately themselves.

Mark Mainwood



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## $K$ <br>  <br>  Screen Scene

Dungeons and Dragons has always been defined as the definitive role playing game. It had to be expected that D\&D would soon make its appearance on the home computer - and it did. The first computer RPGs were nothing more than text adventures. Then multi-player elements and character selection came to light. Now RPGs contain more bytes than any other compuer game. Kull is no exception. It combines elements of role play with innovative arcade adventurestyle gameplay. Sadly the software house feel they have to hide it all behind a mass of mindnumbing pséưđo sci-fi scene setting in the instruction manual.
To cut a very tedious story exceedingly short, you play Raven, an estranged psi-mortal who has set off to a temple in order to rescue his buddies. The only way of doing that is by solving a series of tasks throughout the temple to attain the rank of Divo, then face the high Priestess. The tasks mainly involve taking something to somewhere, twisting a few levers, and collecting a skull. Sounds easy? First find the locations and avoid any traps, as well as aggressive guards.

Whoever designed the temple should be given a special award for managing to get so many colours in at once, without making


You'll be offered a useful object at the start of each game.
it pukey. The movement around the temple couldn't be easier. A mouse-controlled cursor changes shape in accordance to the area of the screen it's in, helping you to decide your next action and making sure that you don't miss anything. The temple is circular with a series of rooms running from the epicentre. Each one forms a layer of the puzzle by setting a problem for you to overcome.

For example, one room contains a man with a rope around his neck. He can give you something useful but warns you not to approach - to ignore him is fatal. When another character (or
more) is encountered an enlarged picture is pulled onto the screen, complete with speech bubbles. Be careful here, a slip of the tongue can prove fatal. It is also inadvisable to get into too many fights as it tends to alert the temple guards or any of the other of the rest of characters, especially the Master of Ordeals (the guy who sets your tasks). Existing Divos are also to be found wandering about, not that offensive, but then I don't recommend an attack either (try it and find out!).
Your PSI powers contribute greatly to the overall fun of the game. If you're losing a fight
switch on the PSI extreme violence power and you instantly wipe the mat with the opposition. Other powers range from a magic light, through sticky fingers (which allows you to climb up walls), up to brain warp which mind numbs a person of your choice. All have one thing in common, they drain your energy, fast. So don't overuse them.

Superb graphics and excellent sampled stereo sound help enhance Kult no end. What it does lack though is the particular atmosphere that needs to be generated by an RPG to give it that special something. On the positive Kult is a great, long lasting game, if just short of classic.

## Mark Patterson



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As with the real life job of a commander in the field of battle it's not just the troops movement you have to be concerned with. Supplies need to be hauled from one side of the field to another. Seeing as the radio wasn't going to be invented for another couple of hundred years all communica-


# WATERLOO 

tion is forwarded by runners. This means that your orders, if they reach the general, often take quite a while to be carried out from the moment they're issued, so a lot of
planning ahead is required.
Unlike similar wargames the commanders' view of the battlefield is limited to the position his camp is. So like the real thing if
also very limited for this reason. detail in takes a few seconds to Often the indication for how well or draw up each screen.
bad a unit is doing comes through
Units can be selected by clickerbally and can be out of date or naccurate.
ter, or by issuing a verbal order The 3D graphics are every bit through the keyboard, although a and and move, often taking risks that they're coloured. But owing to some of the more tedious parts of through the battlefield. Unit view is the complexity and attention to the game. If you should feel that
 you are being kept in the dark by the enemy and your spies at the start of the game you can select an option which will print up the opposition's battle messages, too, making life a little bit more revealing.
Although moderately complex Waterloo is surprisingly easy to get into and guarantees playing stints of several hours a time. Highly recommended.

Mark Patterson



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## STORM WARRIOR

## Encore

Let me get this right. A completely new game on the Encore label? But | thought... Oh, never mind. Storm Warrior, written by the authors of Forgotten Worlds as the inlay is at pains to tell us several times, has you saving the land from an evil witch by slaughtering everyone you encounter with your sword.
A bog standard flip screen beat 'em up game with some nice touches and a decent tune, but ulfimately nothing special.
(53\%)

## SCOOBY DOO

## Encore

Shaggy, Thelma and the two that look like Barbi and Ken have been captured by a mad scientist, who presumably is aiming to do mad scientific things to them. Scooby, of course, being the brave dog that he is wants to rescue them. His way is blocked by ghosts and demons, which Scooby eliminates by punching and collecting scooby snacks along the way for bonus lives. A fairly entertaining scrolling beat 'em up, nicely animated, but which is limited by lack of variety. Colour and soundwise, it doesn't look much better than the Speccy version.
(60\%)



## DEEP STRIKE

## Encore

Another Durrel re-release from yonks ago, which this time has you taking on the Red Baron and various other Johny Foreigner types in cerial combat. You control a biplane, in which you should, according to the scenario, defend your self whils bashing the nasty Hun. In reality, this proves practically impossible, as your own planes get in the way, so you blast them as well. Much more fun.
A fairly altractive and entertaining game, but a bit awkward to contro. II tends to slow down dramatically when there's a lot going on on the screen.


Yie Ar Kung Fu.
YIE AR KUNG FU

## Hit Squad

Another re-released Ocean coin-op conversion, this time in the shape of Konami's oriental beat 'em up. Yie Ar Kung Fu, this.
Long since surpassed as a top it Long since surpassed as a top
combat game, this is still worth a look.
look.
Take on a succession of (73\%)
fighters in an attempt to become a Grand Master it says, but YAKF has nothing to do with chess. Expect plenty of hopping around, pirouettes and kicks in the goolies from this. Colourful and challenging, it keeps up the high quality of re-releases already set by Ocean on this label.

Scooby Doo.


## ADVANCED BASKETBALL SIMULATOR

## Mastertronic

Absolutely no prizes for guessing what this is. A straightforward version of basketball for the 64, not suprisingly. You control a team of two players, against either the computer or a friend, in a side on of a view scrolling pitch. Imported from America, we suspect, it is certainly well programmed, and once the controls are mastered, it is suprisingly good fun to play $A B S$ is let down by an incredibly stupid loading system, but if you can put up with reloading every time you want a new game, its worth a look. That's if you don't have one of the mass of basketball games already available. (76\%)

## RESCUE ON FRACTALUS

## Mastertronic

A re-release of the old Lucasfilm/Activision game, in which you must rescue various stranded pilots from the surface of the planet Fractalus. This involves piloting a craft through treacherous mountains, whilst blasting the UFO's and gun stations, and landing whenever you pick up a pilot on the radar.

As you may guess, the scenery of the planet Fractalus is generated using fractals, which makes for a smoothly regenerating planet surface, and the quality of the graphics greatly increases the appeal of the game. It looks a bit dated and blocky, but it does boast addicitive gameplay and nice sounds. An unusual and for its time innovative game which is definitely worth the asking price from Mastertronic. (85\%)



Advanced Baskethall Simulator.


Rescue on Fractalus.


Green Beret.

## SABOTEUR II

## Encore

A re-release of the 1987 sequel to the best-selling Saboteur from Durrel, in which you must avenge the death of your ninja brother. This involves charging around 700 screens of platforms and ladders, collecting cards to redirect a missile and then escaping in one piece. Strange way of exacting revenge if you ask me, but then I'm not a ninja. Nice big figures and plenty to do should keep those with a penchant for ninjaing happy for quite a while. One of the few games you get to play a female character in - though if's hard to see the difference.

## GREEN BERET

## Hit Squad

Ocean's conversion of Green Beret still remains a high point for them. The Taito beat 'em up was faithfully reproduced in virtually every respect. As scrolling horizontal beat'em ups go, Green Beret spawned hundreds of imitators at home and in the arcades.
Ocean's conversion of the game was done by Dave Collier, with sound by Martin Galway, and it's a testament to the quality of their work that the game remains as playable as it is. The backgrounds are immaculate, with good effects and effective animation. The challenge is still a tough one and a three quid it's one you can afford not to miss. Rerelease of the month. (91\%)

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Minutes before the deadlines and four games arrive. Lesser mags would make you wait a month. Do we? No. We're too kind, we are.

## HIGH STEEL

## Screen 7 AMIGA

As one of the country's highest paid construction workers, your job is to build concrete and steel buildings as fast as possible, in this strange game from Screen 7. There are of course hazards to prevent this being an easy job, such as falling bricks, aliens, and crawling bombs, each endeavouring to prevent the structures getting built.
The graphics are almost cartoon like, brightly coloured and extremely crisp and effective. There are sound effects for just about everything, but unfortunately they in no way match up to the quality of the graphics. Gameplay wise, it certainly won't have you rabidly tugging the joystick in all directions, but building each structure does have an appeal, and becomes almost puzzle-like at times. An attractive and unusual game which defies categorisation.
66\%

## PHOBIA

## Mirrorsoft AMIGA

Phobia on the Amiga does not measure up to its predecessor
on the 64, unfortunately. It is a horizontally scrolling shoot 'em up, and the scrolling is fine, the screen colourful, but there is simply too much going on at once on the screen. At times it is impossible to get through a wave of aliens, as there are so many, in addition to bullets, bombs and missiles all aimed squarely at your ship. A difficult game is fair enough, but this is crazy. Sound is about average, which pretty much sums up the rest of the game. 63\%

## RICK DANGEROUS

## Firebird <br> AMIGA

Tony Dillon gave the C64 version of Rick Dangerous a well-deserved $84 \%$ a couple of months ago, and the Amiga version is, fortunately, every bit as good as the earlier incarnation. The gameplay is practically the same in this flip screen arcade adventure, but obviously the sound and graphics have been enhanced.
There is an atmospheric littlie tune at the start of the game, and brilliant spot noises, including a fantastic gunshot and scream sound every time you shoot someone. The graphics build


Rick Dangerous
on the strength of the 64 version, with highly detailed but attractively coloured screens throughout.
My one tiny complaint is that it might have been possible to introduce decent scrolling on the Amiga, as opposed to the pseudo-flip screen effect on the 64, but this aside, it is in every way a worthy successor to the 64 version. 86\%

## SAVAGE

## Firebird AMIGA

We first reviewed the 64 version of Savage in November of last year, so methinks a brief recap is on the cards. Savage is a three part game, each part linked by a fairly feeble scenario, but thankfully no one buys games for their scenarios.

The first part is a
horizontally scrolling beat 'em up of sorts, with the main
character throwing an endless supply of axes at the constant stream of mutated animals which attack him. Some of these will leave bottles of drink, diamonds or better weapons when they are killed. In the second scenario, you fly through a valley similar in look and style to the Buck Rogers arcade game from years ago, avoiding huge monoliths, whilst attempting to shoot skulls which drift into your sights. In the third you are an eagle attempting to locate a maiden through labyrinthine passages and cells.

The graphics and sound on all levels are both excellent, with a brilliant tune on the first level in particular. The graphics are highly colourful and the sprites are large. The animation of the main figure on level one is a little awry when he jumps, but apart from that it is excellent. To sum up, brilliant sound and graphics, and two disks crammed with excellent gameplay. 79\%

## Phobia



Savage



# Keith Campbell goes a-walking by the sea, tries to solve an unsolvable game and wonders how to find Ambrosia. All of this, plus a review of Deja Vu II and adventures clues, too. 

Robert Isaacs of Wembley is a great fan of Sierra adventures, but is disturbed by how long it takes for them to be released. He is looking forward to playing King's Quest IV, Manhunter, Leisure Suit Larry II, Police Quest II, Space Quest III, and Gold Rush - "all in a matter of three months after a gap of two years!" says Robert, adding: "It makes me wonder how committed Activision is towards Sierra?".

Activision recently held a Press Reception to publicise Sierra games, attended by Al Lowe, Leisure Suit Larry author - not the sign of a lukewarm approach. There have been quite a few Sierra titles released over the last eight months, but it is only the Amiga versions that have been so bunched together. The games are produced on a PC, and then converted to Atari ST, with the Amiga version appearing last. Following the development of their new improved interpreter, Sierra and Activision will hopefully be able to space things out more evenly in future.

In June's Valley, Colin Kennedy was searching desperately for a cookie to give to the little red demon in Uninvited. Luc Stynen extends a helping hand from Belgium: "It is not as easy as he thinks," explains Luc. It seems the cookie is in a jar hidden inside the safe. The combination for the safe is found by examining the files on the elements, which are found in the desk in the study. The numbers required are those shown on the
scroll, used in the same order. Even then, you'll still have a smashing time trying to get the cookie out of the jart".

Luc continues with some advice about the light fitting in the bathroom. It is NOT a red herring, as Colin thought but leads to the final battle in the bid to save your brother. The puzzle involves flooding the room so you can float up and open the fitting, thereby creating another exit. Do this when you hear your brother yell for help.

Melbourne House's Classic Adventure has always been a bit of a mystery to me.
Written by John Jones-Steele in his Abersoft days, it is based quite closely on the original mainframe Colossal Cave. But it is not identical and therein lies the difficulty in giving definitive clues. The trouble worsens with the C-16 version, since it has been abbreviated to fit into memory.

Stuart Johnson of Oldbury had been having trouble with the troll, and so 1 advised him to give him a golden egg. Not correct! It seems there is no route past the troll on the C-16 version, so give up trying Stuart A further variation is that the $\mathrm{C}-16$ has only 13 treasures, instead of the usual 15.
And now for this month's cries for help. Robert Cruickshank of Paraparaumu, New Zealand, wants to know where and why he should yell 'Evocare', and where to dig for exotics, in Ultima III. "And where, oh where, is Ambrosia?" he asks.

Tom Mes of Rotterdam is playing Zak McKraken. He is sure that he should pick up a seat cushion on the plane,
and find a lighter. But every time he tries, the stewardess comes along and tells him to go back to his seat. So how can he get it? Tell me, someone!
"How on Melton Mowbray do you get the amulet of fire in Shard Of Inovar?" asks S. Joyce of Consett. He has tried placing the statuette in the font, which according to the solution I have, should release the amulet. "But when I wake up I still can't get the amulet!" says SJ.
Michael Birch is trying to stop the pollution of the Barren River, in Pool Of Radiance. Having entered the temple at Sorcerers Island, he can find nothing to do inside, nor can he find Yarash the Sorceror.
Methods of getting out of the basement in Rigel's Revenge have been discussed in The Valley recently. There are two ways it can be done, involving not carrying anything whilst escaping, as I reported in June. Now, Lee Larder of Newport in Gwent, comes up with yet another variation on this puzzle. "There is a very much easier way," writes Lee. "Type DROP ALL THROUGH WINDOW. Then you have no objects so you can squeeze through!"

Don't forget - the Valley Rescue is here to help you with your problems!And any help you can pass on, through me, to other adventurers, will be most appreciated. If you have anything to say on the subject of adventures, write to me at The Valley, CU, Priory Court, 30-32 Farringdon Lane, London EC1R 3AU, and I'll get back to you as soon as possible.

## ADVENTURE CLUES

## THE BIG SLEAZE:

To get the torch to work, insert battery in flashlight, and switch flashlight on.

## SHADOWS OF MORDOR:

If you can't move the raft, you have built it in the wrong place! Try S, NW, SW of where you found the logs.

## REBEL PLANET:

The deltractor is in the CosMop.

## COLOUR OF MAGIC:

Save Hron from being crushed, and then examine the boulder, if you are to kill Bel Shamaroth.

## WOLFMAN:

To escape from the Moonfield, pick a flower in each location so that each has a broken stem. The last location will have a 21 inch stem. From the $\mathbf{1 5}$ inch stem, go $N, E, N, W, N, W$, and $N$.

To kill the hunter eat the flower.

To enter the monastery kiss Nardia.
ULTIMA IV:
The password to the codex is VERAMOCOR.
QUEST FOR THE GOLDEN EGGCUP:
To escape from God's Dungeon, try digging in the sand.

## BARD'S TALE III:

To enter the Black Tower, cast MAFL, SHSP, FEAR, SVEL, SPBI. To get the Black Lens from the Black Wizards go up the stairs, cast APAR, and go east and up. Kill the wizards and take the lens.

## VALLEY

# CAMPBELL'S COMMENT 

$\star$ Down here in
Bournemouth the sun is shining, surfers are surfing, and holidaymakers swarming. We, the residents of this delightful over-65s holiday resort, are having problems with Shadowgate.
After working on it for several weeks we are unable to get past the troll, or toll bridge. Please help, otherwise we will have to spend all day down the beach in the glorious sunshine. Yours getting very brown,

## Dan Stride,

Bournemouth.
Campbell's Comment: Just treat the troll like any ordinary holidaymaker crowding you off the pier push him over the edge with your spear! Please send another letter for me to answer, otherwise I will have to spend all day up on the downs, to get away from all the trippers tripping, and traffic snarling, along the coast here in Brighton!

Now here's a dissatisffed customer, until recently stuck in an alchemist's pentagram. I thought I had been most helpful - but perhaps I should have left him there. . .

* Once more I write with concern as to The Lurking Horror, and also to tell you how utterly useless you are! How dare you insinuate that I hadn't reached the altar? What do yo think I am?A Young Conservative?

Also, I am desperate to get my hands on Bureaucracy, but I have heard that an 80 column monitor is required to play it comfortably. Is this true? Is there any way round it?

Oh, by the way, I've just sent off for The Leather Goddesses game, and needless to say am sweating in anticipation of its arrival. Pity about the under-18 protection mode (being but 14 years of age) and . . Oh my God, I've just gone blind!
Thank you for reading this drivel, and please send some useful answers this time . .

## Andrew Reston

Yeovil.
Campbell's Comment: Personally, Ifind that a well-upholstered portable TV set can be just as comfortable as an 80 column monitor. There is a way round it, but be careful not to trip over the mains or aerial leads. Had you not so tragically lost your sight in anticipation of the girls in leather, I would have suggested that Bureaucracy will appear very similar to Lurking Horror if played on a telly. And let me remind you, Master Reston, that Infocom games are designed to be played from the keyboard, and do not require the use of a joystick. And after that accusation of incompetence, how about a pat on the back?
» I am a big fan of Rod Pike, and would be interested in any new adventures he has released. If possible could you list all his adventures?

This may seem like a big request, but in truth I think Into The Valley is the best part of the magazine, and I would do anything to make the section bigger.

Keep up the good work.

## John McColl

Paisley.


Campbell's Comment: Alas, the complete Rod Pike catalogue will increase the size of neither CU nor The Valley by more than a few lines! Rod kicked off with The Pilgrim, and followed this with three horror adventures: Dracula, Frankenstein, and Wolfman, all released by CRL. The last three have recently been re-issued as a trilogy. The

## good news is that Rod is

 reported to be working on a new horror adventure entitled Satan's League, a story about a professional footballer who sells his soul to the Devil to rise to fame - and then the Devil wants his due (what relegation? Ed) The bad news is, this adventure may be available only for the Atari ST.More comment next month.



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## RESPONSES

## LAST NINJA

First off we have Stian Birkeland's response to P. Bradshaw's request for some advice on the "palace garden" level of The Last Ninia (June issue, ref $E 1$.)
Head for the amulet first, crossing the water to get there. Now return, heading for the apple, which is hidden among some rushes on the room indicated.
Now get the rose, remembering to hold the glove before you do so. Head for the Buddho, somersaulting (long jump) over the small stream just before you get there, and give him the amulet. Before doing this, however, set your weapon use to zero, as you would for the Buddha or fountain normally.
Water - West to East: two longs (screen changes), followed by short, medium, long, starting from the bottom of the path right at the edge of the water.
Water- East to West: short, long, short, any (to change screen), medium long. Start just above the blob of water on the path and remember that this is not a failsafe crossing.
Stian adds: " desperately need help!!! Please print some hints, tips, pokes or listings (preferably for infinite lives) for Indiana Jones \& The Temple Of Doom, Mermaid Madness, Mission Elevator, Infiltrator, Ace Of Aces, Rampage, Spiffire 40." (ref DI).

## GARFIELD

This is in response to Darren Nagle's request (ref F1). As soon as you start, it's best to pick up the rubber bone and drop it next to the door with the catflap (left from where you start). Wait near the door

Thanks to everyone who sent in a letter. If yours hasn't appeared this month don't worry. It may pop up in a future issue.
If you want to get hold of a particular solution, poke, hint, tip or listing then send it in to the Helpline and we'll print your enquiry. A selection of replies will be published each month - and the rest we will send on to you.

And, if there's a particular problem with which you think you can help, send your reply to Responses at the same address below.
and, providing he's carrying something already, Odie will bounce up to the door and open the cafflap. This gives you quicker access to the "world outside".

Now get the torch from the bedroom. Go to the sewers (you can enter them by going to the shed or to the park where a busty lady sits). Find Nermal, the kitten, and keep kicking him until he drops a clockwork mouse. Let Odie pick up the mouse and make your way back to the top.

Swap Odie, the torch, for the mouse and go to the health food shop. Drop the mouse. The woman's head will spin around and she'll give you a green doughnut (yuk!). Swop Odie the torch for the doughnut.

Head back to the sewers. When you see a large rat near a chest, get the doughnut back from Odie. Drop the doughnut and the rat will clear off and eat it. Kick the chest and a key will appear. Then give Odie the key and make your way back to the top (WITH the torch).

Next, go to the park where the busty lady sits. Get the key off Odie and drop it on the floor.

Now get the bucket from the back garden. Take it to the hardware shop and drop it. A dollar note will float down. Pick this up and go to the health food shop. Select 'USE' with your joystick and a pile of
birdseed will appear. Pick this up.

Go once again to the park where the lady sits. Drop the birdseed and quickly pick up the key. A big bird will swoop down and take you to the City Pound.

Go right, up the alley, and right again. You'll now find Arlene!!! She'll give you a smacker on the lips, the screen will fill with flowers and you'll go off together arm-in-arm!

## GENERAL HINTS AND TIPS FOR GARFIELD

i) NEVER EVER attempt to go to the sewers without the torch. ii) To get lots of points do any of the following: a) Go to the pizza party (a building without a sign on it). Waggle your joystick left \& right to eat pizzas. When you get splatted by a pie you'll fall down a hole to the sewers. If you've eaten a lot, you'll see a pizza monster! b) Take the golf ball from the shed to the golfcourse (the scene before the busty lady picture). Kick it to try for a hole-in-one. If you miss you'll find the ball near - yawn the busty lady.
c) Jump on the settee and kick it. You'll then see il's ripped. iii) Pick up the aniseed balls for invincibility (as long as you carry them).
iv) If Odie picks up the aniseed balls he'll not pinch any of your items.
Craig Thornton, whò sent in
this solution to Garfield, wants to know if anyone can send him a working poke or cheat mode for the Amiga LED Storm (ref D2).

## SPACE HARRIER \& SENTINEL

Jason Pope, from Leamington Spa, really has done us proud this month, sending in pokes for Space Harrier (Paul Jukes, F2) and entry codes for The Sentinel (Nicholas Butler, F5).

## SPACE HARRIER

TYPE LOAD (Return). When found, the message comes up and the cursor will reappear. Poke 1011, 248: Poke 1012, 252: RUN (Return). Next, when cursor comes back,
Poke 816,167: Poke 817,2:
Poke 2096,248: Poke 2097, 252 :
sys 2061
Finally, Poke 5834,96 (infinite time); Poke 6010, 173 (infinite lives); Poke 2214, (0-255) (ind dec time); Poke 6543,0 (Disable missile sprite collision); Poke 6059,0 (Disable sprite collision); Poke 7236,0: Poke 7231,0 (Autofire); Poke 6666,234 (smart bomb); Poke 14631,127 (slow down); Poke 2456,69 (speed up); Poke 2213,255: Poke 8110,0 (No Poles); Poke 12702,0 (no trees); Poke 12721,0 (no pillars); Poke 12811,0 (no rocks); Poke 12857,0 (no bushes);
SYS 2128
It is advisable not to poke everything: it will probably cause a system crash.

## SENTINEL

000102254153
000288534263
000336478937
000481747818
000553670951
000676964997
000764949596

## PLAV $N$ O  

the time limit on level 1 and go absolutely haywire (you cannot lose lives on this level).
To destroy end-of-level guardians you have to shoot them in the head. The easiest way to destroy an end-of-level guardian is to foll ow its head or heads.
If you use these tips the game should be a bit easier.

Remember keep the autofire on at all fimes during the game. This is an essential tip.

## ENQUIRIES

## JINXTER

I am totally Cheesed OFF with Jinxter. I own an Amiga so I have the excellent graphics, but one thing on the game beats the hell out of me. How do you get the ladder into the tower? I have tried every method possible but it's just that I can't get it through the clockmakers shop. Oh, and also how do you get the charm out of the bakery? And how do you get the charm out of the Post Office?
$J$ Gryden,
Cleveland (Ref D3).

## ZAMZARA

I hope you can help me with my problem; I recently bought Zamzara (Rack It) on budget for the C64, but I can't get anywhere (save a couple of inches on-screen); il's one tough shoot'em up. To give me a fighting chance, please are there any pokes, hints or tips (pokes for infinite lives preferred) that would help? Andrew Williams (Ref D4).

## ELITE

Some days ago I bought Elite for my Amiga. I have heard that in Elite you get a few missions to fly. O.K. that's fine, but how do I get these missions? I have read the instructions, but they do not say anything about any missions. Please, somebody help me so
that I can get into some serious gaming! Oh, and there's one more problem: how do I enter the Cheat Screen? I know there is one, but not how to enter it! Thanks to everyone who is able to help me!
Dag-Heine Bjoerhdal
(Ref D5).

## KNIGHTMARE <br> Help! I recently purchased Knightmare for the

Commodore 64 and cannot get past the second cave. l've tried everyting.
You begin the game in the first cave. There is some food, o rock, a torch and an old man and one door out. After picking up the food, the rock and the torch, l opened the door and went through to the second cave in which there's another torch and a door; but this time, when I tried to open the door, I was told that it was locked! There is no key. Throwing things at it does no good and asking the old man is a waste of time - even if you give him food or water he just repeats the same thing, "I am old and frail and will waste away".
l've tried asking everyone possible, the oricles, the dungeon master, etc, but it's no use.

Can you or anybody else please help me!
Tony Stokes
(Ref D6).

## GREAT ESCAPE

I've got a problem; I'm absolutely stumped by the game called Great Escape. When you collect the Red Cross parcels and you take the third one and the fourth one, and when you go back to your hut and try and make an exit, the fire/stove comes towards you and makes the game crash. If someone knows how to do this, I will be very grateful. By the way I have a C64. Has anybody got a start/ finish solution to this game?
Jason Keable
(Ref D7).


It's easy. Just send in your lefter, marking your envelope with the appropriate code number if you are sending a response. Post your letters to Play to Win Helpline, CU, Priory Court, 3032 Farringdon Lane, London ECIR 3AU. Oh, and if you're making an enquiry, just write a couple of lines explaining the particular problem, ie why you need a poke, why you would like a particular listing.

The sender of each letter published will get a free piece of software. This month's winners will be getting a copy of US Gold's Forgoften Worlds, Amiga or 64.

Next month will see another goodie up for grabs. Sorry, but we're unable to respond to individual requests for games.

If you are replying to any of these enquiries don't forget to mark your letter with the reference code for the person you are responding to. If you send in more than one enquiry, please put each on a separate sheet of paper. Likewise, if you send in a response but have an enquiry too. That way we can file everything in neat alphabetical files.


## AMIGA

## XYBOTS

This hack will give both players infinite energy. Boot up Amiga Basic and type in the program and, before running it, save it to disk as you will not be able to re-access ABasic after. Some flashing lines should appear and the power light will go off; this indicates a system take-over is occurring. 10 REM $\star \star \star$ CRACKED BY ANDY GRIFO, XYBOTS VO. 1
**
20 checksum $=0$ : total $=$ 250477 : crack $=523618$ 30 START $=523520:$ FINISH $=523667$ : GOSUB 50 40 GOTO 90
50 FOR $n=$ START TO FINISH STEP 2
60 READ a $\$: a=$ VAL $/ " \& h^{\prime \prime}+$ a\$)
70 checksum $=$ checksum $+a$ 80 POKEW $\mathrm{n}, \mathrm{a}$ : NEXT
n : RETURN
90 PRINT "Your CheckSum $=$
";checksum
100 IF checksum $<>$ total THEN PRINT "Data
Error": END
110 PRINT "Place XYBOTS in Drive 0 and then click on"
120 PRINT "both of the Cancel Requesters. When Loaded" 130 PRINT "both players will have Infinite Energy"
140 INPUT "PRESS RETURN
TO BOOT XYBOTS",Grifo\$
150 CALL crack
160 DATA $23 \mathrm{fc}, 0007, \mathrm{fd} 10$, 0003,0124, 4ef9, 0003,
000c
170 DATA $23 \mathrm{fc}, 4 \mathrm{eb} 9,0007$, 0000, d292, 23fc, fd4c, 4e7i 180 DATA 0000, d296, 4df9, $0000,0600,0879,0001$, 00bf
190 DATA e001, 323c, 000a, 203c, ffff, ffff, 13c0, 00df 200 DATA f180, 51 c8, fff8, 51 c 9 , ffee, 4ed6, 117c,0063 210 DATA 001 d , dOfc, 0020, $117 \mathrm{c}, 0063,001 \mathrm{~d}, 90 \mathrm{fc}$, 0020
220 DATA $4 e 75,2 c 79,0000$, 0004, 41f9, OOfe, 88c0, 43f9 230 DATA 0007 , fbba, 303 c ,
$0145,12 \mathrm{~d} 8,51 \mathrm{c} 8$, fffc, 2a3c 240 DATA $0003,0000,23 \mathrm{fc}$, cb40, 4e71, 0007, fbfc, 4ef9 250 DATA 0007, fbdO Andy Grifo.

## RAMPAGE

Boot up AmigaBasic and type in the listing. Before running it save it to disk as you will not be able to re-access AmigaBasic. The hack will give all three players infinite energy.
10 REM $* \star \star$ CRACKED BY
ANDY GRIFO, RAMPAGE
VO. 1 * *
20 checksum $=0:$ total $=$ 367658 : crack $=523198$ 30 START $=523072:$ FINISH = 523269: GOSUB 50
40 GOTO 90
50 FOR $n=$ START TO FINISH STEP 2
60 READ a $\$: a=$ VAL (" $\& h^{\prime \prime}+$ a\$)
70 checksum $=$ checksum $+a$
80 POKEW $\mathrm{n}, \mathrm{a}$ : NEXT
n : RETURN
90 PRINT "Your CheckSum =
";checksum
100 IF checksum $<>$ total
THEN PRINT "Data
Error":END
110 PRINT "Place RAMPAGE in Drive 0. When Loaded all" 120 PRINT "three players will have infinite energy"
130 PRINT "now when ready
RESET your Amiga"
140 "PRESS CTRL + AMIGA +
AMIGA TO BOOT
RAMPAGE"
150 CALL crack
160 DATA $23 \mathrm{fc}, 0007$, fd4e, 0003,008 c, 4 eec, 000 c, 0879
170 DATA 0001, 00bf, e001, $23 \mathrm{fc}, 4 \mathrm{eb} 9,0007,0000$, fca 2 180 DATA 33 fc , fb $6 e, 0000$, fca6, 4ef9, 0000, dc04, 43 f9 190 DATA 0001, d38e, 48e7, $8000,303 \mathrm{c}, 0100,3340$, 85d8
200 DATA $3340,85 a 2,3340$, $860 \mathrm{e}, 4 \mathrm{cdf}, 0001,4 \mathrm{e} 75,2 \mathrm{c} 78$ 210 DATA 0004, 2 e3c, 0003 , $0000,207 \mathrm{c} 00 \mathrm{fe}, 88 \mathrm{c} 0,43 \mathrm{f9}$ 220 DATA 0007, $99 f \mathrm{fa}, 303 \mathrm{c}$, $0145,12 \mathrm{~d} 8,51 \mathrm{c} 8$, fffc, 23fc

230 DATA 2007, 4e71, 0007, fa3c, 4ef9, 0007, fal0, 2 c 78 240 DATA $0004,426 e, 002 e$, $2 d 7 c, 0007$, fbda, 0226, 4eae 250 DATA fd9c, 2d40, 022a, 4 efa, fffe, 0007, fbe 2, 0000 260 DATA $0000,4 \mathrm{afc}, 0007$ fbe 2, 0007, fbfc, 0121,00f6 270 DATA 0007 , fc06, 0000, 0000, 0007, fb8e, 2863, 2941
280 DATA $2 \mathrm{e} 47,7269,666 f$
Andy Grifo.

## THE DEEP

This program will supply you with unlimited lives for both players BUT it will only work if you have got 1 Mb or more of memory.
Method

1. Reset your Amiga and load AMIGA BASIC.
2. Type in the program listed below.
3. Save the listing for future use.
4. Run the program.
5. Follow the instructions on the screen.
Listing
10 REM $\star \star \star$ THE DEEP
CHEAT (C) DAVID SLACK

## $\star \star \star$

$20 \mathrm{CHECK}=0$
30 CHEAT $=12845056$ \&
40 FOR $N=$ CHEAT TO
12845174\& STEP 2
50 READ AS
$60 \mathrm{~A}=\mathrm{VAL}$ ("\&h" $+\mathrm{A} \$$ )
$70 \mathrm{CHECK}=\mathrm{CHECK}+\mathrm{A}$
80 POKEW N,A
90 NEXT N
100 IF CHECK <> 421284\&
THEN PRINT "ERROR IN
DATA":END
110 PRINT:PRINT "PLEASE
INSERT YOUR DEEP DISK IN DFO:"
120 PRINT:PRINT "AND AFTER CLICKING ON
CANCEL TWICE PRESS ANY KEY."
130 A $\$=$ INKEY $\$: I F A \$={ }^{\prime \prime \prime}$
THEN 130
140 CALL CHEAT
150 DATA 2C78, 0004,
207C, 00FE, 88C0, 43F9,
0007,0000

160 DATA 303C, 0145
$12 \mathrm{D} 8,51 \mathrm{C} 8$, FFFC, 22FC, DBFC, 0000
170 DATA 22FC, 007E, 4E5D, 32BC, 4E75, 4EB9, 0007,
001A
180 DATA $41 \mathrm{EC}, 007 \mathrm{C}, 30 \mathrm{FC}$, 4EF9, 43FA, 0008, 20C9,
4 EEC
190 DATA 000C, BOBC, FFFF,
FFFF, 6704, 4EF8, 00CA,
41FA
200 DATA $0010,43 F 8,0 E 0 A$,
32 FC , 4EF9, 22C8, 4EF8,
0484
210 DATA 2E3C, 4E71, 4E71,
23C7, 0000 FF5C, 23C7,
0001
220 DATA 8F34, D3D1,
4E91, 4E73
David Slack.

## POWER STYX

This program will supply you with unlimited lives.

## Method

1. Reset your Amiga and load AMIGA BASIC.
2. Type in the program listed below.
3. Save the listing for future use.
4. Run the program.
5. Follow the instructions on the screen.
Listing
10 REM * * * POWER STYX
CHEAT (C) DAVID SLACK
**
20 CHECK $=0$
30 CHEAT $=1280$ \&
40 FOR $\mathrm{N}=$ CHEAT TO 1370 \&
STEP 2
50 READ AS
$60 \mathrm{~A}=\mathrm{VAL}$ (" $\& \mathrm{~h}^{\prime \prime}+\mathrm{A}$ \$)
$70 \mathrm{CHECK}=\mathrm{CHECK}+\mathrm{A}$
80 POKEW N,A
90 NEXT N
100 IF CHECK < > 286804\&
THEN PRINT "ERROR IN
DATA":END
110 PRINT:PRINT "PLEASE
INSERT YOUR POWER STYX DISK IN DFO:"
120 PRINT:PRINT "AND
AFTER CLICKING.ON
CANCEL TWICE PRESS ANY
KEY."
$130 \mathrm{~A} \$=\mid \mathrm{NKEY} \$: \mathrm{IF} \mathrm{A} \$={ }^{\mu \prime \prime}$

## PLAY то

THEN 130
140 CALL CHEAT
150 DATA 2C79,0000,
0004, 207C, OOFE, 88CO, 43F9, 0007
160 DATA FO00, 303C, 0145 , $12 \mathrm{DB}, 51 \mathrm{CB}, \mathrm{FFFC}, 22 \mathrm{FC}$, DBFC
170 DATA 0000, 22FC, 007E, 4E5D, 32BC, 4E75, 4EB9, 0007
180 DATA FO1A, 41 FA,
O00A, 2948, $0112,4 E E C$,
$000 \mathrm{C}, 41 \mathrm{FA}$
190 DATA OOOE, 23C8, 0005 , $413 \mathrm{E}, 4 \mathrm{EF9} 9,0005,4000$, 33FC
200 DATA 6600,0002, E446 4EF9, 0002, D000
David Slack.


## RUNNING MAN

## Zone 1-Ice rink

This one is pretty tricky at the beginning. Aim a good kick at the dog while it's running at you. Start running to your right, and at the same time jump onto the girder and then on the top girder. Keep going until the block of ice is in sight. Stand on the edge of each block and jump onto the next. Keep the joystick in the top right diagonal position. This should take you across the ice blocks.
Watch out for dogs; just keep kicking them as they pop up. To kill the first Stalker run towards him and give a good kick and punch in front of him Look out for the puck that he may aim at you. Avoid it by jumping.

While in combat try and get as far to the right of the screen. When you kill the Stalker your energy runs down because of dangerous gases.

## Zone 2-Suburbs

As always, keep an eye out for dogs. Carry on running and soon you will see a brick on the floor. Pick it up and jump over the object next to it. Then jump over the crates (ignore the pipe which is on the crates). Carry on and jump over the hole in the floor. To kill the second

Stalker crawl on the floor and then get up behind him and throw the brick. Keep on retrieving the brick and doing the same thing.

## Zone 3-City lights

Continue to your right and watching out for dogs. Jump over the first obstacle, then pick up energy and carry on.
To kill the third Stalker stand up a fair distance away and keep ducking. Pick up the brick which is to the right of him and, as he fires, duck and throw the brick. Pick up energy points when needed and make sure he doesn't get out of sight.
Zone 4 -The complex
Watch out for dogs while running to the right. Don't pick up the brick - it's really not needed.
When the fourth Stalker appears, crawl along the floor to dodge his fireballs. When he takes off, stand up and kick him as many times as possible. Then start crawling again. Pick up energy when needed. A shield isn't required. You can pick up a dustbin lid and block shots or hit back with it.

## Zone 5-The studio

Watch out for dogs and pick up energy if needed. Crawl to dodge the guards' bullets. Once they draw near, get up and kick. Better still, use the gun (found at the start of level). Carry on and pick up the gun. Crawl again to dodge bullets and then shoot the guards with your gun.
At the end, kick Daman or shoot him to make him fall into the trap.
Lee Porter,
Yorkshire

## PHOBIA

OPRINTCHR\$(147)
1 FORI = 49152 TO
49273 : READAS
$2 \mathrm{~L}=$ ASC (LEFTS(AS, 1$)$ ): $\mathrm{L}=\mathrm{L}-$
$55:$ IFL $<5$ THENL $=L+7$ $3 \mathrm{R}=\mathrm{ASC}(\mathrm{RIGHTS}(A \$, 1)): \mathrm{R}=$ $R-55: I F R<5$ THENR $=R+7$ $4 \mathrm{~V}=(\mathrm{L} \star 16)+\mathrm{R}: \mathrm{C}=\mathrm{C}+$ V:POKEI, V: NEXT
5 IFC $<>11462$ THENPRINT "DATA ERRORI":END 6 PRINT"SAVE LISTING FOR

FUTURE USE."
7 PRINT:PRINT"SYS 49266
TO START."
10 DATA A2,00,BD, $10, C 0,9 \mathrm{D}, \mathrm{O4,00,09,01} 16$ DATA $14,09,0 \mathrm{D}, 00,01,0 \mathrm{E}$,
00,04,E8,EO, BD,10,C0,9D, 04,00,09,01
11 DATA $14, D 0, F 5,4 C, 25, C 0$,
03,08,05,01
12 DATA $14,20,02,19,20,14$,
09,0D,20,01
13 DATA OE, $04,20,09,01,0 E$
20,A2,00,BD
14 DATA $35, C 0,9 D, 98,01, E 8$,
E0,3D,DO,F5
15 DATA $4 \mathrm{C}, 98,01,20,56$, F5,
A9,A8,8D,E8
16 DATA $02, A 9,01,8 \mathrm{D}, E 9,02$,
4C,BC,02,A9
17 DATA $B 6,8 D, 83,09, A 9,01$,
8D, 84, 09,18
18 DATA 4C, 20,08,A9,C3,8D 08,09,A9,01
19 DATA $8 \mathrm{D}, 09,09,4 \mathrm{C}, 20,08$
A9, AD, 8D,0E
20 DATA $15, A 9,31,8 \mathrm{D}, 6 \mathrm{~F}, \mathrm{CO}$,
A9,08,8D,70
21 DATA CO,4C, $31,08, A 9,93$,
20,D2,FF, 4C
22 DATA $00, C 0$
Type in the Phobia listing. "Run it" and follow the on screen prompts. The listing gives infinite lives.
Tim and lan Fraser.

## SUPER <br> SCRAMBLE SIMULATOR

0 PRINTCHR\$(147):
POKE53280,0
1 FORI=544 TO 615: READAS
2 L=ASC(LEFT\$(A\$,1)):
$\mathrm{L}=\mathrm{L}-55: \mathrm{FL}<5$ THENL $=\mathrm{L}+7$ $3 \mathrm{R}=\mathrm{ASC}(\operatorname{RIGHT} \$(A \$, 1))$ :
$R=R-55: I F R<5$ THEN $=R+7$
$4 \mathrm{~V}=(\mathrm{L} \star 16)+\mathrm{R}: \mathrm{C}=\mathrm{C}+\mathrm{V}:$
POKEI,V:NEXT
5 IFC $<>5824$ THENPRINT
"DATA ERRORI": END 6 PRINT"SAVE LISTING FOR FUTURE USE."
7 PRINT:PRINT"SYS 544 TO
START."
10 DATA $20,56, F 5, A 9,08,8 \mathrm{D}$
D0,08,A9,3A
11 DATA $8 \mathrm{D}, \mathrm{D} 1,08,4 \mathrm{C}, 10,08$,
A9,1B,8D, 11
12 DATA D0,A9,A5,8D,5E,
1A, 8D, DA , 27,8D
13 DATA E9,27,A9,00,8D,44,
11,A2,13,BD
14 DATA $53,02,9 \mathrm{D}, \mathrm{CO}, 99, \mathrm{CA}$,
10,F7,4C,00

15 DATA $10,03,08,05,01,14$,
00,02,19,00

17' DATA' OE,CO,PY,RI,GH,TT, IM,FR,AS,ER
Type in the listing. "Run it" and follow the on screen
instructions. The listing gives
infinite time on Super Scramble Simulator.
Tim and lan Fraser.

## RED HEAT

O PRINTCHR\$(147)
1 FORI=49152 TO 49271 :
READAS
2 L=ASC(LEFT $(A \$, 1)):$
$\mathrm{L}=\mathrm{L}-55: \mathrm{FL} \leq 5 \mathrm{THENL}=\mathrm{L}+7$
$3 R=\operatorname{ASC}($ RIGHTS $(A \$, 1)): R=$
$R-55: I F R<5 T H E N R=R+7$
$4 \mathrm{~V}=(\mathrm{L} \star 16)+\mathrm{R}: C=C+\mathrm{V}$ :
POKEI,V:NEXT
5 IFC $<>10838$ THENPRINT
"DATA ERRORI": END
6 PRINT"SAVE LISTING FOR
FUTURE USE."
7PRINT:PRINT"SYS 49152
TO START."
10 DATA A $2,00, B D, 10, C 0,9 D$, 60,01,E8,E0
11 DATA $68, \mathrm{D} 0, F 5,4 \mathrm{C}, 60,01$,
20,56,F5,A9
12 DATA $70,8 \mathrm{D}, \mathrm{FO}, 03, \mathrm{A9}, 01$,
8D,F5,03,4C
13 DATA A7, 02,A9, 4C, $8 \mathrm{D}, 54$,
03,A9,82,8D
14 DATA $55,03, A 9,01,8 \mathrm{D}, 56$, 03,4C,00,08
15 DATA A9, 92,8D,57,01,A9,
01,8D,58,01
16 DATA AC, $20, \mathrm{DO}, 4 \mathrm{C}, 59,03$,
A9,A5,8D,E9
17 DATA $25, A 9, A 5,8 D, E 6,0 D$,
A2,00,BD,AC
18 DATA $01,9 \mathrm{D}, 48,70, \mathrm{E}, \mathrm{EO}$, 1A,D0,F5,4C
19 DATA $10,6 E, 03,08,05,01$,
14,20,02,19
20 DATA $20,14,09,0 \mathrm{D}, 20,01$,
OE,04,20,09
21 DATA $01,0 \mathrm{O}, 20,20,20,20$,
$20,20,20,20$
Type in the listing. "Run it".
Follow the on screen instructions. The listing gives infinite energy.
Tim and lan Fraser.
Thanks to messrs Fraser, Slack and Grifo for their listings. If you've hacked a recent release and you'd like a place in PTW sent it in to 'Pokes' at CU's usual address.



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The jukebox is a hundred years old. CU's Sean
Kelly pops twenty pence in the slot and punches the
keycode for Happy Birthday with this
retrospective of the great musical cathedrals
which stand for a bygone era. . .
$\square$ Iarlier this year, Elton John decided to dispose of hundreds of items of memorabilia acquired from many years of travelling round the world with loads of money and no self control. Amongst the plastic flamingoes, neon wigs and ten inch sole platform shoes was a 1940 Wurlitzer 750 jukebox, a collectors item in its own right. Not suprisingly, it was one of the more sought after items, and was eventually sold for sixteen thousand pounds. Not a bad price, perhaps, for a slice of American history.

The jukebox started out looking radically different from its now-classic shape. It was a modernised Edison phonograph, which instead of using a record, had the music recorded on a cylinder; the sound being played through a cone. If you didn't like the one song available, however, you were stuck. Consequently, much time was spent developing newer and better jukeboxes, until in the 1920's, around twelve to sixteen songs were available on each one.

Jukeboxes were to be found in many of the speakeasys across Åmerica during the

## - me for the money

collectable models is now big business. Sound Leisure Ltd., of Leeds, is Britain's only manufacturer of replicas based on the classic Wurlitzers, and produces around a hundred hand-built models a year. Wurlitzer also produce the 'One More Time', a replica of the 1015 , in Germany. The replicas manage to combine the classic
looks of the early models, with all the benefits of modern technology. At the heart of the 'One More Time' is a computer. Unfortunately, if you're thinking about opening your wallet, even a replica model can cost around five thousand pounds. Looks like Ill have to put up with my Amstrad Midi system for a few years longer.
stream of bubbles rising slowly up the tubes. It proved to be so popular that it was to be the early Sixties before it became unfashionable, and fell out of common use. Old machines were sold off incredibly cheaply. Today, a refurbished model in good condition could fetch as much as thirty thousand pounds at auction. Jukeboxes have a devoted following, with some collectors housing six or seven in an ordinary semi-detached home. But what sort of person wants to own a Jukebox after all they aren't exactly the most effective record players in the world.
"Anybody", says Michael Flynn, who has restored and sold jukeboxes for over a decade. "From people living in council flats right up to pop stars like Jimmy Paige (Led Zeppelin), Paul McCartney and Elton John. It's across the board." Michael, in fact, restored Elton's recently sold jukebox, which needed extensive repairs when he bought it. "The veneer was in a terrible state, all bubbly. That needed real care to put new sections which matched the grain. The fluorescent tubes also needed careful sanding to repair years of scratches. They don't exactly fit into the average home, however, and there are better ways of storing a record, so why would anyone want to own one? Michael answers simply "To recapture a mis-spent youth!' David Tedder, of Jukebox Services, agrees: "A lot of our older customers have fond memories of their youth, when they could be found in cafes, and even chippies, everywhere." But it's not just ageing lotharios remembering

Recommended reading: Christopher Pearce's Vintage Jukeboxes - The Hall of Fame by Chartwell Books Inc.
their first fling anymore, as recently younger people have begun to discover the fascination of jukeboxes. Demand for anything with a Fifties feel, from 501's to Brylcreem, has increased the demand. "Younger people are interested because they have seen them on television, in 1950's style advertisements and period television programmes." says David.
The interest in jukeboxes, and the wish to own one, is steadily increasing, and practically anything which plays vinyl, from the elegant 1940's classics, to the ugliest tin and formica 1970's models, are now sought by collectors. The demand is such that even building replicas of the more
Right: the Rock-Ola 1428, and below, classic kitsch - AMI's Mother of Plastic.



Confronted by a huge fire breathing blue warthog. Weird!

I've never seen the George Lucas' film 'Willow'. According to the very plush Capcom taster screens, it's "a magnificent fantasy" filled with, "love, friendship and adventure". Its much vaunted arcade conversion falls a wee bit short on the love and friendship fronts, but there sure is plenty of adventure to make up for it.

The plot puts you in the diminutive elven boots of Willow

Ufgood, "a man of peace" according to Capcom, who has been charged with the task of rescuing and protecting the Holy Baby, Elora Danan from the evil Eaumorda and her henchpersons (and henchthings).

Basically the action involves hopping and running (and riding on the back of a carriage, and sailing in a cockle-shell boat) through the brilliant horizontallyserolling landscapes, wiping out

## Capcom


closely resembling a horse's skull; you can stave this creature off with your fireballs but it's impossible to defeat.
As well as picking up the gold pieces dropped by the sfain foes, you should also hack into the treasure chests which you find dotted about the place, which yield either pots of gold or life enhancing potions.

On each level you'll have at least one opportunity to spend this dosh in a useful way, by freeing the little wizards you encounter along the way. These heavy-browed charmers (they look like a cross between Denis


Save that baby from Baumorda.


Healey and Worzel Gummidge) are in fact travelling salesmen who can cash in your gold for extra fighting power, longer, stronger and even extra lives, anti-magic potions, special weapons and, sometimes very usefuly, information. Take advantage of goods and knowhow, and spend your hardearned wisely.
The levels kick off with "Crossroads", where you move through some fairly straightiorward countryside towards a showdown with a giant fire-breathing warthog. Defeat this formidable foe and you set
free an ally, Madmartigan. This strong and brave swordsman is so grateful to you that he fights through the next level instead, giving Willow a breather and you a chance to try out your swordfighting skills. The first part of "Charlindrea's Forest" in fact takes place in an enemy-ridden tavern, with plenty of jumping up and down from balconies and stairs. Once you negotiate this you jump down into the back of an open carriage, driven by Willow whereupon you are pursued by horsemen, wild pigs and eagles. You'll have to hack, fump and dodge carefully if you're
to avoid the twin perils of arrows and falling off the back.
Level three, "Fin Raziel's Island", is where the going gets really tough with lots of accurate jumping and moving needed in addition to Willow's destructive powers. Rope-bridges begin to fall apart as soon as you start crossing them, rocks fall away under your feet, and you're oxpected to leap around like a mountain goat as well as avoiding the grenades, arrows and axes that come at you thick and fast. Negotiate the coastal area and you find yourself thrown into a tiny boat, bobbing around the stormy ocean, pursued by seabound archers and harassed by flying fish!

Willow really is a masterful piece of work, with all the thrills of Ghouls ' $n$ ' Ghosts plus a little

|  |  |
| :--- | :--- |
| GRAPHICS: | $89 \%$ |
| SOUND: | $92 \%$ |
| PLAYABILITY: | $84 \%$ |
| CONVERTABILITY: | $86 \%$ |
| OVERALL: | $88 \%$ |
|  |  |

bit more in the way of plot. Beautiful graphics abound, needless to say, and some special praise is warranted for the superbly atmospheric soundtrack. Rather than just ride on the film's name Capcom really have pulled out the stops to bring us some inspired arcade gaming. After this, I might even go and see the film.



How would you feel if you missed out on an issue of CU? Pretty sick we'd imagine. CU is full of software reviews every month. We sort the brilliant from the good, the bad and the indifferent. Miss out on an issue and you stand to miss out on a classic game. Either that or you'll end up buying a duffer. Add to that the news, tips and features you get and it's too much of a chance to take.

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Umm . . . anyone for beer?


Well praise bel At last, a beat 'em up with intelligent pick-up controls. Sorry to be always harping on about it, but if there's one thing that really gives your faithful coin-op correspondent the pip, it's a gun/club/chainsaw lying there on the sidewalk of your beat 'em up street which your onscreen haro just can't seem to grab a hold of, no matter how hard he tries. And inevitably If you do eventually manage to piek up the useful object, your aggressors have taken advantage of your fumbling to deck you.

Yes, to Alpha's great credit their newie is literally strewn with useful implements of destruction, ath of which are grabbable with a minimum of fuss.
You play either Mike or Jackie (of both, if there are two of you). two courageous young thugs making their way through the seamy side of your typical coinop city, a scrufty much-graffiti-ed matropolis whose entire population seems to consist of punks, dockers, gunmen and axe murders, all out for your blood. The punching and kicking


An exhausting fight
controls produce a healthy WHOOMPF of impact, but you tend to have to hit your man at least three times to diss him effectively. Typically, the villains tend to attack you in fours rather than singly, so you have to be reasonably nimble to outwit the felons.
One useful feature that each of our heroes has is a personalised specialist kick/throw which allows you to take out a weakened opponent in double quick time. And then, of course, there are the weapons which the villains routinely carry about with them. and which, as mentioned, you

can be obtained from their owners by shrewd application of GBH.
The graphics, while standard enough for this kind of game do feature some nice touches. The skyline that appears when our hero ascends the scaffolding, really is very nice.

Level two is notable for its borrowing of the battle-on-the-roofs-of-moving-vehicles theme from the likes of Dragon Ninja, with your onscreen persona having to move perilously from one speeding vehicle to another, occasionally hopping up onto strangely disembodied dangling platforms along the way, and all the while having to deal with gunmen and assorted other nasties.

Criticisms? Well, aside from pick-up controls that actually work properly, there's little original or new about Gang Wars And, perhaps more damningly still, I found the going surprisingly easy, with even the burliest of villians succumbing to my pugilistic prowess rather feebly.
Still, it's competent, it's user friendly and it's probably worth a spin.

| SOUND: | $74 \%$ |
| :--- | :--- |
| GRAPHICS: | $62 \%$ |
| PLAYABILTY: | $59 \%$ |
| CONVERTABILTY: | $79 \%$ |
| OVERALL: | $\mathbf{6 8 \%}$ |

## SOUND:

 74\% you manage to fell their respective owners. This city, it seems, is over supplied with lengiths of exhaust piping, zip guns, knives, baseball bats and axes, and each of these weaponsPLAYABILITY: CONVERTABILITY: 79\% 68\%


All rightl Who nicked my car stereo?!

## Sega



The sharp right-hander - no passing here.



The checkpoint looms.


Through the tunnel.



There have been so many sitdown driving consoles cluttering up the arcades since Out Run first raised the coin-op car race stakes that it takes something pretty special to have Mike 'Lauda' Pattenden frothing at the mouth. So when the Ed (fave wistful saying: "if I hadn't become a journalist I'd have been a formula one driver") started gibbering excitedly about Sega's new drivalong I knew there had to be something a little special about it. And, sure enough, there is.

Super Monaco G.P. is unique for several reasons.

First up is its subject matter For, where other racing games have contented themselves with imaginary courses, and usually a choice of strict progression SMGP limits itself to recreating just one particularly real-life course, round which the entire game is centred, the famous Monaco Grand Prix which sends the contestants careering around the narrow winding course in the centre of this millionaires' playground of a city.

Secondly, it is beyond doubt the most realistic driving game I've ever played. Now, I've never sat behind the wheel of a formula one race car at full throttie, but judging by the way my shoulders and arms ached atter a couple of minutes in the hydraulicallycontrolled seat, Sega have managed to capture the knifeedge, sweat-soaked, nervous tension which the real thing must surely evoke. The track seems terribly narrow, constantly twists and bends, the speed is awesome, the controls are frighteningly responsive, and the picturesque scenery - based so faithfully on the real thing that a casual observer thought at a glance that it was digitised spins past in a blur.
And, perhaps most importantly for the impoverished amateur looking for a few quiet minutes of entertainment for his hard-earned quid, being as realistic as it is SMGP is also tremendously tough going.
Once you've been welcomed to the course by a digitised bikiniclad beauty, you are asked to choose between three different control systems: automatic, fourgear and, for true F-1 fans, seven gear. 'Used for practise' is howthe onscreen descriptions witheringly describe option
number one, but frankly unless you really feel confident about your driving, you should plump for automatic, at least for starters. Gear changing, incidentally, is carried out by use of an ingenious plate behind the steering wheel which allows you to flick up or down with your fingertips without taking your hands off the wheel.

This choice having been made, you've got to take a truncated practise lap against the clock. Run out of time and it's 'Game Over' before you've even begun. Your starting position in the real race is determined by your time in this lap so don't slack.
The race proper is three laps of the famous course. You'll be given a position limit at the starting line - fall below it at any point during the race and you're immediately out. The same goes for a really serious smash. All of which is more realistic than the average, but obviously makes your ultimate survival a lot tougher.

In order to qualify for the next race you've got to wind up in the top three of the first one. This is, not to put too fine a point on it, exceptionally hard to do. The key to success is (a) to put on a good spurt in the practise lap so that you start off the race proper in the first ten or so, and (b) to overtake as many cars as you can right at the start. Just like in the real thing, once the cars spread out, it's tremendously difficuil to make your way up through the field.

Overtaking is predictably tough - nobody's hanging about, and If you have a minor prang, you'll be immediately depressed at how easily you're passed by the field.

But despite all this hardship. sweat and tears - or perhaps even because of it - Super Monaco Grand Prix is an unforgetable drive. With the brilliant graphics enhanced by an enormous monitor screen, the seat hydraulics flinging you about the console in reponse to your slightest hand movement, and the cars, yachts, tunnels, mansions and crowds spinning dizzily past, this superb race sim brings out the Walter Mitty in even the most mild mannered armchair pedestrian.

Not cheap, not easy, but an essential coin-op experience.

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Same thing

I own a CBM 64 but I am thinking of changing it to CMB 64C.

Do you think its worth me changing as I can not make up my mind. Is the CMB 64C better than the old CBM 64 .

Would I be able to use my games and disk drive on the CBM 64C?

Why do discs cost more to buy than tapes. They both do the same thing?
Anthony Ayre,
Birmingham.
I seem to be getting a number of queries about swopping a C64 for a C64C and the simple answer is that they are the same machine: It would be a complete waste of money to buy a new C64C unless your old machine had really kicked the bucket, but if you prefer the style of the new machine then there is a much cheaper alternative. Evesham Micros do a replacement casing for the old C64 which makes is it look every bit as good as the new model. Costing only £19.95, this is a good deal cheaper than a new computer and means that you retain the original keyboard (some people prefer the old keyboard to the new lighter one anyway). Evesham can be contacted on 0386765500.

As for disks costing more than tapes, the manufacturing process for disks is considerably different to tapes and the volumes are different too. They might appear to do the same thing in outline, but the disk allows much more sophisticated programming. As for the price of the same program being different
again it is volume sales that dictate the costs; there are still far more people with cassettes on the 64 than have disk drives, so sales of tape versions are far in excess of disk versions. And if I am now going to get a spate of letters asking why Amiga program disks cost £25 while C64 disks only cost E10-because it takes twice as long to program the Amiga, that's why!

## Compatible

It would be greatly appreciated if you could advise me on the following problem.

I possess a Commodore 64 computer and a Silver Reed EX43N typewriter which is computer compatible.

My problem is: how do I
connect the two in order that the typewriter can be used as a printer?
MrBlackman
Detmold,
Germany.
When manufacturers say that a typewriter is 'computer compatible' I always groan, because I am all too aware of the problems likely to face anyone rash enough to actually want to connect it to a computer! The first thing you have to do, assuming you haven't done it already, is to purchase the relevant interface unit for the typewriter itself. This will cost about £50, plus fitting charge, and I would recommend you get it done by a qualified typewriter agent so you can take it back when it doesn't work. If that proves to be a problem in Germany then you may have to order the part and fit it
yourself:!!.
Some typewriters only have a serial interface available, while others have a choice of parallel
(centronics) or RS232 serial. IfI tell you that the Commodore 64 has neither of these, you will begin to see that life is not really out to help you any. If you get a serial interface then you will need a proper serial box which fits onto the user-port of the 64 (the serial lines are on the user port, but at the wrong voltage levels!). These cost about $£ 20$ and can be otbained from STACK COMPUTER PRODUCTS (tel: 051-521 2202). Alternatively, if you get a parallel interface you will need a CBM Serial IEEE to centronics interface (which doesn't need to handle the CBM graphics characters, so you can go for the cheapest one). This costs about 235 . Since you won't get a lead with the typewriter interface you will need to purchase one if it is a serial interface; you will get sufficient leads with the CBM-parallel interface unit.

When you have got everything fitted and connected up, you will be able to get most standard text out of the printer, but there are still snags. Not all programs permit the use of the serial port for output and even those that will don't always carry out the CBM to ASCII conversion that is needed to get the character set (upper and lower case letters) the right way round. So, before even contemplating going any further, ask yourself the following questions: 1) Is your software (WP program?) capable of sending output to the serial port in the correct format? If not then forget serial mode.
2) If a centronics interface unit is available, add together the cost of the interface, fitting, and the CBM-Centronics converter and see if it still looks economic. If it is, go for that solution.

## Ouput Control

I wish to use my Commodore 64 to switch an array of ten LED's (or small piezzo electric vibrators) such that any one of the ten outputs can be switched under program control. I would be grateful if you would advise me if this is possible and if so what circuitry would be required. R. Ball,

Glasgow.
There is an easy way and a difficult way to do this. Firstly, there are only 8 data lines from the user-port and so could drive 8 LEDs quite easily, through a series resistor directly from the 5 v sources on each of these lines (see Diagram 1, below right). However, if you have to drive 10 LEDs then you must take the circuit a little more complicated.

You can obtain an Integrated Circuit (IC) chip that will convert BCD values into a decimal driver for LEDs etc (see Diagram 2) which means that you can now select one of 10 lamps (or up to 15 if you wish, remembering to leave 0000 as the ALL OFF condition) by using only 4 output lines from the user-port. The latter circuit can be adapted by using fwo 8 -line Darlington Driver chips to drive any type of device up to $50 v$ (see Diagram 3). Note that the output port of the 64 is limited to 50 v (see Diagram 3.) Note that the output port of the 64 is limited to 50 mA in total, so while you can drive single LEDs, for any more powerful devices you MUST use the Darlington Drivers which also act as buffers to avoid damaging the output chips in the 64.

To actually set the userport data lines you must use two registers; the Data Dírection Register (DDR) at address 56579 and the I/O port register itself (address 56577). To set a data line for


Tommy, in chauffeur's garb, strips down the carb of the getaway car. He's a gentleman's gent is Tommy.
controlled from the computer if desired. Connect this pin to another data line and when the line is set low (OV) then no amount of changes to the first four data lines will affect the output.

## Second-hand

I have owned an Amiga 500 for over a year now and I have written programs which would be suitable to be printed out. I would like to buy a printer - could I buy a second-hand MPS 801 and use this?? If not could you recommend a good quality mono-chrome printer under £200 I would be very grateful if you could help me out.
Don Shide
Christchurch,
Dorset.

I'm afraid the MPS 801 cannot be used with the Amiga 500 on its own, unlike the MPS 803 for which special cables are available. If all you need is a dot-matrix printer for program listings then the Cifizen 120D is a vary good buy just now, available from around £125 (incl VAT). The quality is adequate rather than good, but it has Epson emulation and works quite happily with the A500, and is one of very few printers that fall well within the sub-£200 price bracket. Since you have to buy a cable and paper to go with it, and possibly a printer stand, the total bill would still only come to about £160.
output you must set the corresponding DDR bit to 1 . So, to set the first 4 lines to outputs you use POKE 56579,15 , while to set all 8 lines for output POKE 56579,255 . To set a data line on or off, you must set the corresponding bit in the $I / O$ register to either 0 or 1. Note that Diagram 1 has the data lines acting as 'sinks' rather than 'drivers' as this makes them more efficient, but it does mean that you have to set the I/O port to 255 to turn all the LEDs off and then each 'bif' is set to 0 in order. to turn the LED ON. If you are using the 4-16 line interface chip then all you need is POKE the value of the LED you wish to light, eg

POKE 56577,6, the one limitation being that the 4-16 decoder will only allow one LED to be lit at a time.

If you want to have each LED controlled
independently of the others you will have to include suitable latch chips and a clock line. You will also have to control the output enable line (pin 23) which in Diag 2 is held low $(\mathrm{Ov})$. I don't have room to give you a full program for operating such a system, but I'm sure you will have far more fun experimenting now you have the basic facts. Note that the 4-16 line decoder has an input enable pin; this is shown set permanently high $(+5 v)$ in Diag 2, but can be



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What happened? One minute we were out sunbathing in the CU garden, the next the issue's come out with a results page where we should be! That's a dirty editor's trick, he should have come and woken us up! What's been going on since we last met? The CES Show, the launch of a thousand film licences, softco bashes, we don't know where to start really. Still let's try this one ...

- Most of the UK's software house bosses were to be found ligging around Chicago for this year's show. Judging from its dominance it should be renamed the Nintendo show. With over ten million units sold everyone in the UK was over there trying to persuade the Japanese company that their games should be available for the rather average console. Stephen Hall of Grandslam, was so keen to sell his wares that he kept a plane full of dissatisfied softcos waiting a further half an hour after it had been delayed from taking off by a mere four hours...
- One company not so interested in dealing with Nintendo are Mirrorsoft. An almighty corporate battle had developed between them and Nintendo. The cause of much injunction flinging and writ
writing is that harmless little
brain teaser Tetris. Mirrorsoft brain teaser Tetris. Mirrorsoft
licensed the product to Atari's software wing Tengen, only to find out that Nintendo were also producing versions for their machines. Cue a huge row, with both sides claiming they own the rights and Atari weighing in on Mirrorsoft's side. Mirrorsoft say they can licence it to anyone they feel like, Nintendo say that they bought the rights direct from Russia where the game was programmed. This one could run for some time ...
- Meanwhile Falcon mania is spreading with the release of the new mission disk of the machine. At the Paris Air Show General Dynamics, makers of the F-16 entertained the Press and assorted VIPs as usual with a huge hospitality suite
 of a copy of the game... software are so bad currently that Ocean boss David Ward is having to go halves on a yacht with US Gold supremo Ann Brown. Wardie has just purchased a bijou residence in Majorca whilst Ann has bought a new house with a lawn so big she has to use one of those sit down mowers to cut the grass - or the gardener does anyway ...
- Microprose, those trusty friends of the earth, are so committed to protecting the environment that they've had all their company cars converted to run on unleaded fuel. What about Bill Steeley's Cess-
and copious amounts of food na? The reborn software house and drink. When everyone left has announced that they'll be they received a gift in the form holding the launch of their Greenpeace game on Rainbow Warrior. Amazed journos It's tough at the top. Sales of packing their scuba gear and

Thanks are due to US Gold for entertaining us all, first at the premiere of Indiana Jones And The Last Crusade' and secondly to a launch party at Stringfellow's. Assorted software industry types mingled at the poseurs' paradise together with jackbooted nazis who turned out to be none other than the Ocean crew of Patterson and Stokes. Gary Bracey turned the kind offer of the Third Reich's uniform down, pointing out as politely as he can to USG's Danielle Wood that he's Jewish. Dress too, proved to be a problem for representatives of Future Publishing (Amiga Format, ST Format, New Computer Express). The company organized a coach from the company's offices in Bath for thirty of them only to have twenty seven turned away when they arrived for being too scruffy. Maybe they should pay 'em more ...



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