

REVIEWS: MUSIC STUDIO, TRITON DISK DRIVE, C-128 BASIC

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#### **AUGUST 1985**



Music Studio Menu



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#### COMMODORE BUNDLES UP

Commodore's trump card at this year's disappointing UK Commodore Show may have been the arrival of the 128, but it had a few more cards up its sleeve. Notably the announcement that instead of cutting prices on existing products, it's bundling them up into what it calls "added-value packages' So the Commodore 64 joins the

Commodore 16 ranks as a Starter Pack containing a datasette and the International Soccer game - all for £199. Buy either pack before the end of August and you're offered three nights' free accommodation at a choice of 300 hotels in the UK and the Continent. There's also a competition to win a computing weekend - bring your own computer?

The second bumper-bundle involves the ailing Plus/4. That's being packaged up with the 1541 disk drive MPS-801 printer and Impex's Company Pack 1-2-3 business software, all for £449 - a claimed saving of £198.



weekend breaks courtesy of

Could this be an admission that the Plus/4's ROM software is somewhat

less than useful? Finally, there's two peripheral bundles. For £349 you get a 1541 disk drive, the MPS-801 printer and Easy Script. Whilst £229 buys you the 1541, the Commodore modem (including a free year's Compunet subsription) and a selection of Commodore

disk games. There seems to be two considerations behind this masterplan. Primarly, Commodore is determined to kill the dealer discounting that's causing chaos on the High Street - instead of paying less, you get more for the

Secondly, Commodore is concerned about the seasonal nature of its business: computer sales tend to slump in the summer and pick up for Christmas, Launching its bargainbundles in July should help to stem the tide and help dealers to get rid of

## **LOTS OF PAZAZZ**

Acclaimed education software house, ASK, has produced probably the first 'leisure' program for the 128 to run in '128 mode'. Called Pazazz, it's also

available for the 64. So what is it? "Pazazz brings the world of Entertainment to your Commodore computer and puts you in the Producer's chair", enthuses the blurb. The program consists of four sections that allow you to design a scene, compose music, create a performer and control the action.

Confused? Here's an example: you could start with a street scene, then design a character and then animate him or her to dance to the music you've composed.

So you're really getting three packages in one, drawing software, a sprite

editor and a music composer, the unique feature being that you can animate and synchronise the music and move-

Pazazz has four preset scenes, a street, circus, graveyard and disco, but you can design your own. There's also a choice of four preset characters and music. You can also load any tune from the Commodore Music Maker series. Each section is stored as a file so, having created a library of them, you can mix and match any combina-

Files (except the scene graphics) created on the BBC B, Spectrum and Amstrad machines can also be used. Available shortly, Pazazz should cost £14.95. More details from ASK on 01-874 6046

• SHORTS • SHORTS

Speed Loading: Evesham Interface upgrade: Readers of

> Print-64 interface device. It looks you should now be able to use the device with Epson printers.

# o scene in Pazazz - not quite

## MORE RAM FOR 128

expansion cartridge for the C-128. revealed in the June issue The cartridge plugs into the

machine's user port to give up to 512K additional memory - pretty good going. It's memory is accessed through Basic by using the new commands, FETCH, STASH and SWAP - thankfully there's no peeking and poking to do. Banks of up to 64K of data can be manipulated by specifying the start location in the RAM cartridge, but only in 128 mode. In CP/M mode the cartridge acts

as a RAMdisk (an area of memory that behaves like a 'temporary' disk drive) enabling you to load and save data at one megabyte per second - that's 200 times faster than the 1571 disk drive.

More interesting, the cartridge can be tied into commercial software to increase its capabilities. No prices yet - but with that much memory, it won't be going (£14.95) on disk. By the way, cheap.

Video Goonies: American computer game based on 'The

the kids search for pirate's

• SHORTS

fast-loading cartridge for the 64 Qickdisc software package -

reset switch too. We'll be

on 0386 49641.

month, Meanwhile, more details

# News News News News News News Ne

#### SPEED FILE FOR WAFERDRIVES



Entrepo, the American company that manufactures the 'Waferdrives' for the Commodore 64 (reviewed last issue) has now released the first business software package to appear on wafers.

Called Speed File, it's a file manager package costing a mere £25. For the money, you get the System Manager wafer and a blank wafer on which you create a data file for consequent data storage.

#### 1541 ALTERNATIVE



There's also a meaty 64-page ringbound

Although wafers are serial devices, Speed File stores data in sequential files so particular order. Complex searching, the use of logical operators and a print function are also implemented. More details from Dean Electronics on 0344 885661

Until now, alternative storage de vices to the 1541 couldn't run floppy disks designed for that machine. That's all set to change with the US built, Enhancer 2000

to a ROM that's just been developed. It should be more resophisticated affair, built in Japan by Chinon. There's also an external power supply that helps to Robotics specialists. Commo

tion, is handling the Enhancer's UK distribution. According to Commotion boss, Tim Coote, the Enhancer will be packaged up with a free utility disk, 'productivity' software and vouchers to houses. The price? At around \$180-\$190, it's not much cheaper an in-depth review.

#### BORN IN THE USA

If you've been blasting Bruce Springsteen, Duran Duran, Van Halen or The Police, you might cringe at the thought of hearing them 'interpreted' by the Commodore 64's SID chip. Undaunted, American Hal Leonard Publishing has pursued this landslide of an idea, to produce a "Hitware" package for each of the above, complete with graphics and picture book.

Described as "computerised rock video" each disk (sorry, Americans don't like tape) contains ten tunes and 'color graphics' displays synchronised to the music. If the graphics don't theil you, you can gloat at tasteful pics of Bruce or Simon, or Sting or Eddie

Van H. How do they sound? - "fantastic instrumental arrangements", says the blurb. We've not heard them yet but Hitware should be in the UK real soon. Dedicated Bruce fans better start



The Boss: Born to Run on the 64

#### SHORTS

Book for the Plus/4: Micro

pages - perhaps there's no

Software for school: If you're

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# Summer Show Blues

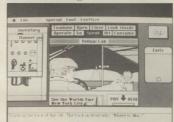
A special report from the Consumer

Electronics Show in Chicago by Engene Lacey

ot no Amiga?" was the disappointed verdict on June's Consumer Electronics Show held in Chicago at the beginning of June.

The much talked about new computer from Commodore with its now famous customised graphics chips could have been the one bright spot in an otherwise alroamy show.

Commodore however, were not playing, Instead their stand was dominated by C128s. Dozens of them — supporting a variety of new and interesting software. Notably, "Jane" — an integrated word processor, database, and graphics package. This really was impressive. Running in 128 mode it is icon-driven, can be controlled with



Above: Deja Vu -best game at CES

Left: Kennedy Approach talks you down.

joystick, mouse or keyboard — and really made the 128 look like a viable seemed at odds with the exaggerated home-business computer.

But if Commodore were busy giving the hard sell on the 128 they couldn't be letteroise to me — Flyer

Fox.
Electronic Arts, Epyx, Broderbund, and even Activision (though to a lesser extent) failed to come up with anything really innovative at the Summer CES. So here's a sneak preview of the best games on show at CES.

DEJA VU: This has to be the number one choice as it provides us with a glimpse of gaming in the future. This 1940's style whodunnit captures the atmosphere of a period Hallywood movie. The game runs on the Macintosh — though Mindscape are olso converting it for the Amiga.

The player uses the Mac's mouse to pick items off the screen and put them down in their required positions. Other commands can also be implemented using icons that represent various actions. It's a high-speed way to play a complex adventure-style puzzle. The impressive thing about the game is that the graphics are so good that no atmosphere is lost by the absence of great tracts of descriptive text.



emputer with a room to let.

THERE IS SOMEONE LIVING IN MY COMPUTER: Charabtwater programmer David Crane intrigued many a visitant to the Activision stand with the claim in his latest game — There's. Someone Living In My Computer. I can't tell you yet whether this is going to be a big his or an almight fillerent. So different. So differ

showing anything new because there is nothing new they can do within the constraints of the current hardware.

Trip Hawkins, boss of *Electronic Arts*, described the Show to me as "the lull before the storm". This ac-

stop everyone at the show talking

about the computer they didn't want

The truth of the matter is that even

America's best software houses have

now pushed the ageing 64 to its abso-

lute limits. No surprise then that the

show was characterised by sequels

like Beach Head II, Summer Games II,

and Winter Games. All safe, tried and

tested game ideas. Nobody was

them to talk about - the Amiga.

COMMODORE USER 7

Adopting a suitably incredulous tone of voice hey'd say to anyone who was stupid enough to stand and litten samething like "the dop turned up last week.", We don't know what he's there for yet?" Play-wise all that is clear about the "game" so far is that clear about the "game" so far is that some of these are obeyed. For example, the little man will take a should be about the "game" so were game, the work of these are obeyed. For example, the little man will take a should be seen as the same of these are obeyed. For example, the little man will take a should be seen to be seen as the same of the sam



 WINTER GAMES: Another sports ismulation par excellance from Epyx, the undisputed World leaders in producing this type of game. Remember they were the people who did Summer Games last year? Winter Games knocks spots off any sports game I've seen before. Events like the tobogan, Ice Skating, and Ski Jump are



Hackers go gaming

beautiful to look at and even more fun to play. Sports game enthusiasts are going to go overboard about this one.

• THE HACKER: The Hacker takes

THE HACKER: The Hacker takes up the wellwarn Hame of breaking into huge protected, computer systems. To keep on the right side of the low the hacker in this game stumbles into the computer by accident (if only it were that easy) and merely has to work out whose system he has hooked into and what is going on there.

This is basically a graphics adventure dressed up as a mega-hack and it should sell like hot cakes. Now you too

can be a backer?

• KENNEDY APPROACH: This game defies those who claim that speech is merely a frill and is never incorporated into the main play element of the game. Without speech, Kennedy Approach wouldn't be much of a game. As the gir traffic controller re-

sponsible for six major American airports you have to listen to instructions from the pilots, clear runways, and talk them down safely. The first every genuine speech game for the 64.

The Summer CES reflected the uncertain state of the computer and software industry in the States. Only three hardware companies exhibited ware companies exhibited ware companies exhibited ware companies of the companies of the companies which was a lot smaller than the show was a lot smaller than the monster over it has been in recent when the companies were considered than our own Personal Computer World Show.

It would be wrong to assume that the picture was entirely bleak though. Many of the companies have been opting for other, computer dedicated shows, rather than being lumped in with, and to a certain extent over shadowed by, the hi-fi, compact disks, and pocket televisions in CES's main hall. One such company is Infocom - America's most profitable games software house in recent years. A spokesman told me "We no longer see the CES show as a major plank in our marketing strategy". Sad words, indeed.



#### MIKE ROCHIP PROUDLY PRESENTS:

# Software Extravaganza

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DISK ONLY

# TERRORMOLINOS!

#### Melbourne House's latest, exclusively previewed

Airport gone on strike? Lost yer passport and yer dosh? Hotel looks like a high-rise car park? Could be worse — you could be playing *Terrormolinas*, Melbourne House's latest and wackiest adventure. Here it is, previewed exclusively, just in time for those rainy summer days by the telly.

All the jokes about the disastrous Spanish package tour are crammed into Terrormolinos.

The unfinished hotel, the sun burn, the problems at the airport — they are all here, plus a few new ones thrown in as well.

The game opens in a suitably exotic location — Slough. The aim is to get away from your two-bedroomed semi with its smells of "cabbage and damp wellingtons" for two weeks in the sun, staying at the Hotel Excrucio.

To prove that you survived your two week package tour you have to bring back ten holiday snaps.

Unlike Hampstead, Terrormolinos has been completely reprogrammed from the Leever Jones Quilled original.

programmed from the Leever jones Quined original.

Graphic screens have been added which appear when you take a successful snap shot or make a fatal error.



The screen shots featured on this page are pre-production screens taking up about SK each. The final graphics will use a lot less memory than this though Melbourne House are confident of retaining all of the "mood" and most of the detail of the above. Among the many perils, you risk being gored by a bull, buried up

to your neck in sand, being poisoned, dying of heatstroke, losing an argument with a shark and being run over by a Euro-juggernaut. Before you get to Terrormolinos there is quite a bit of adventure to get through. You've got to find everything you'll need for your hols, some of which is hidden deviously around the house,

pack, round up Beryl and the kids, and get a taxi to the airport.

If you take too long on your last minute preparations the taxi

driver will get fed up and drive off



Talking about the taxi driver, I can't resist giving you just one tip. Don't try to take the step ladder on holiday with you. If you do this you will get this comment from the cabbie: "No way are you coming in my cab with that bleedin's tep ladder".

The snap shots also take a bit of working out. You need ten and you've only got twelve exposures on your roll of film so you can only afford two duds.

The successful adventurer will choose the right places to take the pics. Therefore, quite a bit of exploring is advisable, perhaps even taking advantage of some of the sightseeing tours laid on at

no extra charge by Kwikhol Tours.

When you take a snap it develops on-screen in front of you Polaroid-fashion. These snaps can then be reviewed one after

another by typing in "Review Photos".

Not to be out-done by other programmers with impressive sounding names for their techniques like "landscaping" or

sounding names for their techniques like "landscaping" or "primary imbalance". Leever and Jones are calling the snap shot technique "Saucivision".

The game uses the percentage penetration scoring system —

The game uses the percentage penetration scoring system which is standard on most Melbourne House adventures.

We are looking forward to seeing the final version of Terrormolinos. Judging from the pre-production copy used for this preview it already looks like being a midsummer, silly season sensation.

Commodore User has twenty copies of the game to give away in an Exclusive Terrormolinos competition.

All you have to do is fill in the form below and tell us in not more

All you have to do is fill in the form below and tell us in not more than fifty words what you think would be a good, humorous subject for an adventure, and why.

The best suggestion will be presented with a copy of Terrormolinos by the authors at a slap-up lunch in London's best Spanish restaurant.



Name			
Address			

Entries should be sent to: Terrormolinos Competition, Comlmodore User, Priory Court, 30-32 Farringdon Lane, London ECIR 3AU. Please write out your suggestion on a separate piece of paper, Entries must reach us no later than August 26.



"Yeah, I suppose so. I can't handle Sherlock though. Why can't I solve

"Two reasons, Peter. One, you are not clever enough and secondly. I've got the computer.'

The computer referred to is jointly owned, as is their copy of The Quill, the development system used by "the partnership" to write all of their games.

Leever and Iones make no claims about state of the art programming techniques. None of the buzz words like "artificial intelligence" or "real time interaction" that usually pour forth from adventure writers

'It's the gags that sell the games," says Lever, summing up the partnership's

Leever and Jones, or 'Pete and Trev' as they prefer to be called, can afford to make the odd joke at the expense of programmers. "They all wear anoraks and have spots" — as a programmer is the last thing that either member of the partnership would want to be referred to as.

Pete and Trey would prefer to see them-

Hampstead and Terrormolinos aside, they have been involved in several "creative projects" since they met at Ox-

ford University, in the '70s. Most recently these projects have been a pop group called the Dave, a comedy act called the Three Ronnies, and a satirical

ing his girlfriend after Pete had just come up with an idea for a sketch based on the saying "poetic licence" which involves a policeman questioning a poet about reciting poetry in a public place without a

All of this made it pretty difficult for the editor of this esteemed organ to get any sense out of the partnership. My one hope was this chat about ideas - so I grasped it with both hands. Where did the idea for Terrormolinos come from?

"I was cruising the Caribbean in the ocean-going vacht I bought from my Hampstead royalties when I thought 'I'll go to Benidorm' ... while I was there I had the idea for Terrormolinos," says

Trev. Not a word of truth of course. He actually went courtesy of Intasun, on a seven-day package deal, and it wasn't Benidorm it was the Costa Brava.

By now we are in a restaurant and it is time to pay. Trev takes from his wallet a Donor Card and places it on top of the bill and hands it to the waitress.

Finally she persuades him that his Access card may be a better way to pay - but the smiles are quickly gone when she explains that she will have to phone up to check if his credit limit will cover the bill. "I'm not sure if I can cover it. I've just

paid for my holiday "Torremolinos?" I ask, "You must be joking, Greece.'

"Mad", "insane", "should be locked up" when you try to describe Messrs Leever and Jones, authors of the social climbers'

Spend an evening in the pub with the Hampstead boys and it is easy to see why. "I think computers are boring," says Peter Jones, adamantly,



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#### Games Plus Games Plus Gam



by Mike Pattenden

Well I'm in a holiday mood this issue.

I've won my first accolade, I'm proud to say, Jeff Minter has made me because I slagged off his Mama Llama game. Apparently if Jeff had his way reviewers wouldn't really be allowed rock, apparently). Well, all I can say is I up to a tenner and I don't really feel I utter piece of self-indulgence on the I'm alone in thinking that Jeff has strayed away from doing what he's

Whilst I'm on the subject of people not getting on, I was chatting to Virgin programmer Charles Goodwin the other day and he let on that he didn't exactly see eye to eye with Legend supremo John Peel. Apparently The Great Space Race flop is a great source of amusement to Charles, particularly so because he reckons Peel got the idea for it from a thought that he voiced in a telephone conversation once. There's good news coming for all you poor Space Race suckers. Legend feels so bad about it that they're offering the game's owners the chance to purchase its new game Komplex at half price. Apparently Legend lost £200,000 on the Great enough to give their money charitably? Not disgruntled Space Race owners surely. Once bitten

More disasters: Ocean man Paul Finnegan is tearing out his hair at the moment because, not one, but two of his programmers have broken their absence of Daley Thompson's Supertest and Street Hawk from the shelves. Has joystick waggling become a health hazard? If the games aren't finished soon Paul's threatening more breakages.

Disaster almost struck (ha!) CRL fices during the bad weather spell ing around with the Rocky Horror

Show at the time Over at Anirog's software retailers. manager Bob Williams was quietly ad-

ding up the day's figures when a gentleman walked into the shop. Bob paid no attention at the time. Now in a minute) is a little thin on top. So he's crouched there poring over his figures when there's a hiss and he gets a sudden sensation of damp on his pate. The guy has sprayed furiester found himself thrown into the



Back to Virgin for another snippe A while ago the company wanted Bob, to put it politely (and you'll see some hardware for their programwhy I've suddenly found my manners mers - a new 64, couple of disk. drives, monitor, stuff like that - so "Why don't you become dealers for us and buy at a discount," said the helpful sales souls. We only want a bit niture polish on his shiny patch! Bob's of gear Virgin explained gently. "No. honest it makes sense, we'll send you all the information and forms " Days later the bumph arrives and a stag



gered Jeremy Cooke learns that he needs to fork out orders for £5,000 dealer and reap all the promised

Games

I'm anxious to hear from anybody ol' Commodore. I just know there's

Well I've done my bit for another

sand, the sea, the surf, and the beach parties. I'm off to Cornwall. Anybody who spots me walking along the front and taps me on the shoulder with a rolled up copy of Commodore User and says 'you're that gorgeous hunk from Hotshots. I claim my due' will win the chance to buy me a pint. See you



HOT SHOTS COMPETITION

Virgin's Gang of Five attempt an 'incognito' act in anticipation of certain Hotshots month's Screen Star games. Entries to: Carrier Bag Competition, Commodore User, 30-32 Farringdon Lane, London EC1R 3AU.



James Plus

Games Plus Games Plus Games Plus Games

# HINTS

This month's Hotshots is a special Hints and Tips issue. We've collected together loads of clues, pokes, cheats and advice on your favourite games all sent to us by you, our clued-up games-mad readers. All of those mentioned are winners of our June Airwolf competition.

## CHEATS

Games

James Plus

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Everybody loves to cheat grief of passing away regularly with these classic cheats.

ZAXXON: An oldie but a goldie. Type in RED on the ti-RAID OVER MOSCOW: There's a knack to getting your fighters out the hangar If it looks like you're going to crash, tap the space har to it again and you're back inside ready for another try. TROLLIE WALLIE: During

return to exit BOOTY: Hold down keys the title screen. Taking your on the fire button and pump

all the screens REVENGE OF THE MUTANT CAMELS: Type in the word tion is constant. After sinking GOATS after the game has the carrier the angles left to loaded and your options have right are +16, +8, +22,

screens by hitting any keys MOTOR MANIA: A game as Pull over to the left of the screen and tap the joystick to disappear into the border. You are now free to accelerate away from the 64 to build

DALEY THOMPSON'S DECATHLON: Jump over the bar until it gets too high. MATRIX: Press SHIFT, CON-TROL. RUNSTOP AND COMMODORE KEY together STUNTBIKE: Press key 3 and

you skip levels BEACH-HEAD: For monster scores save your fire power plane gets to the middle of the screen, keep your finger third screen the difference

#### **GHOSTBUSTERS**

ACLEAN MARIERA 4788.

CASHMACK MADE people tend to use two men, if this is the class drop the trap is the centre of the screen and move the first man to the felf. Move the second man directly over the first. They should both be pointing away from the trap, Now activate. Von can use one man by immobilising the first by pointing him away to the left of the screen and using the state of the screen and using the screen and the screen and using the sc

the second to shoo the ghost over the trap.

MARSHMALLOWING: You get a marshmallow man for every 1,000 points after 5,000. When you get an alert press runstop to freeze him, then press it again, followed by B for bail. Only bit it once or you use un your bail.

base. Only the factors of your new papers more extracted by the factors of the fa

#### SPY vs SPY

You need to be extra sneaky to play Spy us Spy, but a couple of readers have sent in some really dirty tricks for getting one

Sometimes the computer Spy will try to get through a door that you are blocking from the other side. Make sure you don't move and it will struggle without success to get through. This is an excellent opportunity to use the time ther door, trying to get him to choose it. Block in the same

doors. The computer spy won't come here until he has colcase and leave by the airport door. Despicable! Stephen Donnelly of Dublin and Dean Longman from

Wigan, Lancashire

## SNIPPETS

Here's a few clues to give you the edge in these games:

SPYHUNTER: To run up a good score without being attacked once the car has left the van stick to the right-hand side of the screen and manoeuvre the car onto the grass. Push the joystick forward gently until the car begins to move. Keeping the joystick to the right the car will begin to wobwill rise. You can travel like this by the crash barrier and also over the broken bridge!

Wayne Byrom, Manchester.

BOUNTY BOB STRIKES BACK: On F7 to warp to level 4. On level 5 after collecting the coffee pot press 8 then F7 to Martin Evans, Sidcub, Kent,

ELITE: If pirate ships attack you and fire a one of them. All pirate ships have ECM missile and their own at the same time. Ian Sharples, Cheadle Hume in Cheshire.

PITSTOP II: At the start of the race when playing the computer, ram its car until both your tyres burst. The compter has to change its offside tyre whilst you only have to change your nearside one. This gives you a headstart. John Power, Dungarvan, Eire.

ROCKY HORROR SHOW: When freezer temperature reaches about -10 go to the freezer and press the lit button (there are 3 at the top of different ladders in order to reactivate the freezer. Wait till Eddie leaves first and do not press the bottom of the ladder. Paul Serbert, Harrogate, N. Yorkshire

IMPOSSIBLE MISSION: Lure the black orb so that it hits a robot to destroy it When you've collected all 36 pieces of the puzzle go and find the control room. Then together. This saves time at the end because you don't have to chase around

Paul Morton from Enfield.

Games Plus Games Plus

# SPEC

Sir Arthur is constantly getting into scrapes so here's some tips to help him through his two adventures: STAFF OF KARNATH

#### **ENTOMBED**

There are a couple of particularly hard rooms which may well leave your Arthur entombed

Level 5: In the room of gongs you must strike each one in the correct order with your right order, and the right order is yellow, blue, pink, green and white. The final gong lifts up and you have the missing torch.

In the room of lava pools you must walk through in the right order. The first and second left to right make you visible. Using your whip to guide you walk into the third one. Still using your whip go through the first and you become visible once more. Walk through the second pool again and you're onto the next level.

Supplied by Andy Nicholls, Spalding, Lin-

ing your way around the castle:

Forthrin-Dragons, ghosts, bats, Mad Monk, knights, vampire, flying axe, frog.

baby troll, witch. Ibrahim-Big troll, green spider, pot of pansies

Throbin - Magic carpet Umphalus - Shield Yerobas - Skeleton

Aeulus - The Flames.

In the Timeless Room to get the piece of pentagle over the bed, hit the carpet with the Throbin spell and step onto it. It shakes and To get the piece of pentagle in the laundry the cross with the Throbin spell to make it turn blue. Hit it again with the Unphalus spell to make it fall down. Take it to the South Tower Lower and the vampire lets you into the Laundry room. Rush in and out as fast as possible Games Plus

Games Plus

Games Plus

Games P.

Wait in the Waiting Room. Watch the mantle piece.

Wait to the left-hand side of the Morning room and, if fired repeatedly the Ibrahim spell will

Supplied by R. Briar from County Antrim. N.

R. Clough of Bridlington, N. Humberside.

MAP KEY

;X0 ;Y7

:U6

:M8

O = Object C = Compute

S = Start CR = Control Room

JB = Jet Bike UR = Unhappy Robot

HR = Hello Reactor RR = Rusting Robot

WG = Welding Gear

RM = Robot Manual GC = Geiger Counter

RH = Red Herring 5cc = 5 credit coin PC = Pleasure Circuit

Meteor Damage Danger Low Pressure Hole in ship to outer space Very Low Pressure

Go no further :N8 1) To get the jet bike, N2, shoot the object moving left to right, It's best to

2) To make unhappy robot happy, V8, give it the pleasure circuit U6, and get the Bupa card.

3) Give Bupa card to doctors, C5 and get 4) Give vendromat, Y7, 5 credit coin, P2,

machine at A6.

and get fuse and 1 credit coin. 5) To get 5 credit coin go through P1, P2 then move to the far right. The coin will quickly to the left to get it.

6) All the objects in the ship have to be used in order to get into the control 7) Give the cassette of Sorcery to the





Here's a map and seven tips for all sent to us by Paul Gooch of Halstead Essex



COMMODORE USER 15

# • THE • HAPPY • HACKER •

#### **HUGO GOES** HACKING

This is the book that started it all. I suppose. Hacking first hit the headlines towards the end of last year, when peraccount on Prestel. National newspapers decided that this was a story they were going out of fashion.

If was around this time that someone

calling himself Hugo Cornwall was approached by Century Publications to Cornwall isn't his real name, by the way. I don't know where the Hugo bit

Pirates (of Penzance, geddit?). Packed into this book's 150-odd pages is a wealth of information for the would-be hacker. First, the expected chapter about what a hacker is, what makes him do it, and how the word

Then comes the juicy stuff, starting

with a mention of one of the first TV hacks in this country. Remember, if you BBC1. It was a special hour-long edition to clear up after the first broadcast ducer decided that a live demonstrafor the program was BBC - not impossible to guess. And when the presenter logged on, a small but now

comprehensive list of more phone numbers. Problem is, though, they're all in the States. There's a good section on the inside of Prestel, and a useful list

This book is packed full of information. It's not just a list of the author's exploits — it actually says what he did and how it was done. For someone who really wants to understand the world of the hacker, this really lives up to its title. Good value, and highly recommended

- The Hacker's Handbook e by Hugo Cornwall
- Century Communications Portland House
  - 12-13 Greek Street London W1
- e £4.95
- Recommended

#### THE INNER CIRCLE

In 1981, a group of around fifteen top American teenage hackers formed themselves into a club called The Inner Circle. Bill Landreth, one of the founder members, has now retired at the grand old age of nineteen. His decision was partly voluntary and partly suggested by the FBI. He was arrested and subsequently convicted for hacking, under the offence of wire



I'd suggest that this offering be renamed The Networks Handbook. Just about every system in the UK gets a

The main advantage here is that the are available to the 64-and-modem



Out Of The Inner Circle is Bill Lan dreth's attempt at telling all. His book

The micro enthusiast interested in becoming a hacker will probably be through the 230 pages of this book though. True, it's the story of Bill's (alias The Cracker's) life behind the keyboard, but there's a shortage of

Unlike the other books mentioned on this page, this one has no illustrations or tables. It's all solid chunks of words You will certainly learn about computers, and how a hacker thinks, but little that will help you in your quest to emulate the author. And let's face it, that's what most people will buy this

The best part for me were three paragraphs comprising the Inner Circle's code of conduct

If you are actually in charge of a computer network, you may appreciate the advice on how to keep the system secure. For the average reader it's a vicarious way of getting the hacker's experience.

Out Of The Inner Circle • Bill Landreth Microsoft Press

available from Penguin Books stockists ●£8.95

· Reasonable

There are details on many modems Nightingale, Buzzbox, Miracle Technology, Tandata and Telemod 3. is as up to date as it could be. The Pro-

tek modem, for example, is no longer. The section on Bulletin Boards is good and a list of telephone numbers is included, though you'll almost certainly have most of them already.

Teletext — that's Ceefax and Oracle — also get a mention, though the systems have not been penetrated by individual account on a Teletext updating of the system can be done via meone manages to change the pages

of Ceefax undetected. Prestel is probably the most widely known network around, and is fairly well explained. Homelink, the world's first home-operated bank/building

society comes out quite well As a textbook on communications and hacking, this is a reasonable effort.

- The Hacker's Handbook · Geoff Wheelwright and
- Ian Scales • Longman
- Longman House **Burnt Hill**
- Harlow, Essex ●£5.95
- · Good

# GUTS. STRENGTH. SPEED. THE WILL TO WIN.

You'll need 'em all.

# TOUR DE FRANCE





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Adventure Advert

Fancy yourself as a quick-fire sleuth, or maybe a British agent with the nounce to defuse nuclear bombs? Looks like this month's crop of adventures are turning their noses up at the classic D and D scenario but there's plenty of brain tangling to get to arips with.



ADVENTURE NEWS ● ADVENTURE NEWS ●

. The launch onto the UK market of (and 128 compatible) is certain to tures. The Print Technik Digitiser reproducing pictures from the images produced by a video camera or

Adventure

Adventure

As CRL spokesman David Crosor graphics tablet and further

This technology obviously lends detailed and realistic screens -

The CRL product is priced at £149,95 and will debut at next month's Personal Computer World

A micro adventure based on

Hitchhiker's Guide to the Galaxy Year Award - but Infocom's £30

· Apparently inexhaustible Brian

Midwinter, due out later this year. . Can we work it out? The Fab Four kaftans and ioss sticks make an evocative reappearance in Beatle mastered by Garry Marsh and just

· British horror author James gone micro when he and his way into adventurers' affections

· Anirog's chirpy Clare Hall has moth Soul Gem of Martek still is on the stocks for release by Christmas. Up for a place in the heavyweight

· Also bubbling under is the eagerly-awaited 64 version of The IIhas promised the Valley an early for exclusive sample screen shots plus a chance to win one of three

· Level 9 follow up the success of ed at the newer adventurer. Red cast spells as well as enter more

 US Gold spin-off All-American of arcade-cum-graphic adventures available on disk at the wallet-

# nure Adventure Adventure Adventure



graphics

#### Playing Protocol

There's yer actual graphic adventures, ver arcade adventures, and ver icon-strategy come up with The Fourth Prothe labyrinths of modern eswears a price tag of £12.95, or

In the first part of the game, events), check files, use three Aurora - a scheme by them danged commie bedwetters to into so much fallout fodder.

As true Brit agent John Preston, your mission is to cade interval (why do they do

The Fourth Protocol will apreally are first-rate - the icon sheets in particular are very realistic - and there are some - will be tolerated but not enjoyed by some; it could have

#### Medieval evil

First in a trilogy of atmospheric ago, and the only pity is that I

After a reasonably fast load, with more than fundamental stantly updated score readout. graphics, a good text adventure colour many of the responses your bumbling will trigger.

ing Castle Blackstar to the market place at a time when tion/let's bomb the Reds-type houses. And a gold star for offer- Graphics to make even Tarzan ing a personal hints service; you

Up The Amazon

Waiting for the Amazon - or has rain stopped play in the final Test?

a truly powerful reviewer like me, tee-hee) it's not every day that you get a chance to boot up intruders £19.95. Amazon, created by David Durand and Stephen



renamed Telarium for some obscure legal reason, and



Watch out for the multicolours

realised graphic adventure, Amazon features some truly joystick) to pep up the 'static'

Some idea of Amazon's sophistication and complexity

#### CHARTS

- Gremlins (Adventure International, GrA, £9.95)
- Emerald Isle (Level 9, GrA, £6,95)
- Tir Na Nog (Gargoyle, GrA, £9.95)
- NFW 4 (-) Subsunk (Firebird, GrA, £2.99)
- Jewels of Babylon (Interceptor, GrA, £9.95/£11.95 disk)
  - Gremlins C16 version (Adventure International, TA, £7.95)
  - 7 (2) Black Crystal (Mastervision, TA, £3.99
- Classic Adventure C16 version (Melbourne House, TA, £5.95)
- NEW 9 (-) The Helm (Firebird, TA, £2.99)
  - Velnor's Lair (Atlantis Gold, TA, £2.99)

Budget labels continue to dominate our chart with no fewer than six of this month's Top 10 selling at under £7, making the point that today's price-conscious adventurers are happiest with knock them from the top spot for the second month running, and word-of-mouth recom-

British Telecom have surprised everyone (perhaps even themselves) with the success of their pennywise Firebird label, and their two new superior Ouill-aided titles reviewed in Valley last month already seem to be ringing the right bells and are August's only two new chart entries. Software-starved C16 owners show their thanks to Adventure International and Melbourne House - but it's goodbye for now to Upper Gumtree and the nice but pricey Hobbit disk.



A whole new world awaits you and your 64. The world of Prestel, Micronet, Viewfax, Homelink, Citiservice, Compunet (Commodore's own database) etc. This is the world of product reviews, mainframe games, home banking, business information, electronic notice boards, helpful tips, ICPUG, news, Telex-Link, Mailbox, Chatline, Gallery etc. This is the world of telesoftware, with programmes to download into your 64 and save to disk or tape. nominal cost

Many telesoftware programmes are provided free of charge or at Dialog with over 600 massive databases on call and almost unlimited information on just about any subject is accessible from your 64, together with BT Gold, Easylink, One to One etc., with

electronic mail, business services and telex facilities news, letters, jokes, poems, helpful tips, etc. It's a whole new experience.

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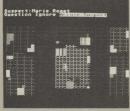
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#### Adventure Adventure Adventure

disks and a wadge of papers

Zinderneuf sleuth

choice for even a wealthy novice. Perhaps the easiest way to you should be able to tackle this Zinderneuf is to say that it vaguevery expensive - but justifiably ly resembles Sherlock with car-



#### COMPETITION

It's no secret that espionage is giving a shot in the arm Vs Spy, Domark's A View to a Kill and Hutchinson's The Fourth Protocol all grabbing enough of a share to keep their publishers in Russian tea.

Never shy about milking a good thing, the gamesmakers are frantically searching book publishers' backlists for other conversion fodder, and it looks like a Len Deighton title could be next for the treatment

This month you can win one of three copies of Classic Adventure from Melbourne House - in either 64/128 or C16 format — by simply naming the nameless ragged British agent who's the central character in Deighton's spy novels; that's right, because he was only given an identity when The Ipcress File was made into a movie starring Michael Caine.

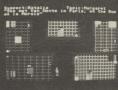
Write in the name on the coupon below, or on a postcard, add your name and address and the titles of your three currently most favourite adventures - then mail it right away to the address shown at the bottom.

 June winners were Mr M Green from Lincolnshire with Lords of Midnight as his answer and Paul Doherty from S. Glamorgan who got the most words in the Level 9 comp. Prizes on their way!

The spy played by Michael Caine was named. Your name Address

My three favourite adventures are:

Send your entry to IPCRESS COMPETITION, Commodore User, 30-32 Farringdon Lane, London EC1R 3AU



Murdar on the Zindamauf - "vous ain't gonna pin this rap on me' with no butler to nail, you've got your work out out

choose to adopt the particular like that?

During the process of deduc least one stage removed from a Sucrose, ventriloquist Aldo San-

The scenario places you in a in a forceful, seductive, polite,

with a motley assortment of 15 There are also clues to be scrolling plan of the airship's his/her room. If you guessed The gimmick is that you may water after making a faux pas

Murder on the Zinderneuf the pearls and twinset Miss book that explains the game par-NYPD. Each has a different ingly, and includes a useful floor

#### **DIY Graphics**

I've only had a few minutes to skim through Phil Cornes' two really useful routines, including latest Screen Shot titles from

graphics in their adventures 64's good looks

VONCEUP by John Ransley So you thought the C-16's measly memory so you mought the C+To's measly memory counts it out as a machine for adventures? counts if our as a machine for adventurers?

Not so. We've rounded up the best of the C-16 adventure crop, for both the beginner and the experienced puzzle 'n' peril buster.

How do you pack the Hall of Mists, Elvenking's dungeon and the greminesque Kingston Falls into your Commodore 16's modest memory? Easy! Just put the program onto a plug-in cartridge, or put the genius of Brian Howarth or John Jones-Steele to work on refining text compression techniques to the point where (albeit at the expense of pretty graphics] it really is possible to cram a creditable version of Classic Adventure or Gremlins into your C16 for, come to that,



Scott Adams Classics on offer with a look at the creations of the ubiquitious Scott Adams who, almost single-handedly, proved that there was intelligent life after Space Invaders

But it's sad that Adams' earlier works - at least in the text-only versions now out on C16 cartridges from Commodore, price £11.99 each - are beginning to show their age.

With such lack lustre software support for the C16 (possibly the most underrated low-price micro of all time in my book), perhaps one is simply meant to be grateful that Commodore trio - but these implementations of

Land Fill Die Live blood sealed best

Pirate Adventure. Atomic Mission and Strange Odyssey lean a little too heavily on the Adams' name (Pirate Adventure was actually written by Scott's wife. Alexis) for their appeal.

In none of them has any attempt been made to add a vestige of visual appeal to the oh-so-basic screens by making even a little imaginative use of the C16's excellent colour and sound facilities. No scene-setting title page, no mini-theme to heighten the atmosphere, not even a stab at setting out the text in an interesting way. Staring at the average sauce-bottle label might prove more stimulating.

That said, the entertainment to be had from almost any Adams title is still to be found below their uninviting surface, even if it has proved beyond the authors' capabilities to add a few good looks.

That winge apart. Pirate Adventure in particular makes a good choice for the novice adventurer, comorising as it does fewer than 30 locations but a great many more knuckle-whitening puzzles: beginners will soon find themselves wrestling with the magical rum, the classical anchor problem (the parrot may have good tidings) and those snappy crocodiles on their way to discovering the treasure that's the reward for solving some gloriously perverse arcanums.

A couple of rungs up the ladder of difficulty, Strange Odyssey will have you backpacking around a strangely sterile planet frumour has it. the prototype for Milton Keynes) in a quest to find several items to help achieve your understandable ambition to escape. But you'll soon discover a snag-ridden jungle, an ambivalent ice hound and a rewarding museum and many other elements to keep you the same level of difficulty. The challenge is to save the world's first automated nuclear reactor from destruction - and wonder why it was built in the first place

All three adventures come with a very clearly explained and illustrated playing guide to get the new adventurer on the road. But

in terms of presentation, they're way behind the times (inputs are limited to verb/noun, and even then the logic has some irritating blind spots] but the convenience appeal of instant play cartridges can't be denied.

PUZZLEABILITY: PRESENTATION: PLAYABILITY: VALUE FOR MONEY: \*\*\*

#### Melbourne Classic

There can be few adventurers who don't occasionally pay silent homage to Crowther and Woods, the Americans who in 1975 developed the world's very first computer adventure, which in turn borrowed heavily from Dungeons and Dragons, the roleplaying board game that had made its

Of the numerous versions which C&W's Adventure spawned, two only are generally recognised by the cogniscenti as being wholly worthy interpretations of the original.

debut a year earlier

One is Pete Austin's version for Level 9, Colossal Adventure, and the other is John Jones-Steele's reworking for Melbourne House under the title Classic Adventure - of which a version for the C16 has, happily, just been released at £5.95.

The player first finds himself on a winding road near a stream, but soon a hut comes into view, where a lamp, keys and refreshment await. And you'll need them all to outwit the axethrowing dwarves, the covetous pirate and the avaricious troll in your bid to collect the precious gems and many other hidden and guarded treasures

Direction commands can be entered as a single letter, and the input parser the verbs/nouns you enter. This can

that await your detection.

occasionally have unnerving results; typing REST, for example, triggers the response "Press play on tape" because your input has been mistaken as an instruction to restore a saved version. Get out of this by hitting Run Stop. There's a score and help feature.

Crisp, logical, often maddening but always entertaining, Classic Adventure is one of the best and cheapest of the crop for the C16.

PUZZLEABILITY:	*****
PRESENTATION:	***
PLAYABILITY:	***
VALUE FOR MON	VEY: *****

#### **Spellbound Princess**



Also from Melbourne House at £5.95 comes The Wizard and the Princess. This Clifford Ramshaw title will be fondly remembered by Vic only thing close to a decent arcade adventure available for that micro. which wondrous feat was accomplished by loading it in separate parts. The new, and much improved, C16 version also uses this trick.

There are five levels which autoload in the correct sequence as you successfully complete each part of your quest - or you may choose instead to load them in any order you

The challenges include a mini graphic adventure, a couple of simple arcaders and 3D-style maze game. Find the dragons, negotiate the labrynthine passages and rescue the princess and the rest of the day's your own

The whole shabang can be listed so when you've exhausted its play value you have an opportunity to pick up some programming knowhow.

PUZZLEABILITY:	*	*	*
PRESENTATION:	*	*	**
PLAYABILITY:	*	*	
VALUE FOR MONEY:	*	*	

#### Four Howarth **Mysteries**

How come that one-man adventure factory Brian Howarth finds enough hours in the day to produce all those titles for Adventure International and popular Mysterious Adventures? The simple answer is that when Brian was converting a number of 64 titles for publishers, hit trading difficulties last year. By the time all that sorted itself out Channel 8, the C16 was in the shops - and Al shrewdly invited their new star author to tweak his

So how good is the quartet of text adventures that is the result? In Ten Little Indians, your adventures begin on a train to the country mansion of a Iterally poured all his money into a gold figurine just before his death. The key figurines you must first collect - while guarding your own life, possibly from

Ray Bradbury fans who enjoyed by Walt Disney] may recognise the Circus, where everything is what it's Serves you right for running out of

There's a science fiction flavour also to Escape from Pulsar 7, where you take on the role of a stellar trader who makes the mistake of freighting a strange creature from an intergalactic zoo which soon starts growing faster

than Philip Mitchell's bank account. Back to some Orwellian fun with The Time Machine, where gossip about not to mention the figure in full armour seen wandering in the grounds - set you off on a quizzical quest in which time warps whip you through more centuries than Freddie Truman

All four titles rely on a fundamental verb/noun parser, but the accepted vocabulary is more imaginative than most and help, score, save and inventory commands move things along.

PUZZLEABILITY:	*****
PRESENTATION:	***
PLAYABILITY:	****
VALUE FOR MONEY:	*****

# Microdeal cheapies

Cheapest among C16 titles are Williamsburg Adventure and Mansion Adventure from Microdeal, both priced at £3.99. I gave up trying to Load my copy of Mansion after the Williamsburg burst into life quite happily, eventually, and I found myself in to track down a golden horseshoe while dodging the hazards of evil and a terminal maze. Input is simply a verb/noun affair and you're given occasional bits of Help. Instructions are virtually non-existent.

One problem, I can't figure out a way of saving a game; one star deducted for that.

```
PUZZLEABILITY-
PRESENTATION:
PLAYABILITY:
VALUE FOR MONEY: **
```

#### **Text-only Spiderman**

Adventure International, who've just only versions; The Hulk, Spiderman and Sorcerer of Claymorgue Castle. Price is £7.95 each

All three offer a moderate/difficult level of challenge. The Hulk and Spiderman come with a first-rate 16 page leaflet explaining the scenario, characters and rules of play - though not, sadly, the colourful Marvel minicomic that more effectively set the scene for the 64 versions. Why not?

The Hulk represented a new departure for Scott and most people who have worked through both this title and its successor would agree that Spiderman represents a great improvement in playability

The Sorcerer of Claymorque Castle got a best adventure of the year award, which recognition perhaps had more to do with this adventure's intrinsic quality than its chart success of it as a kind of art movie that Cannes Skegness Odeon.

In this you take the part of apprentice Beanwick, entrusted by vicked Vilerath

None can be fairly compared with the 64 versions, with their attractive full-colour graphics, but thought of as text-only 'originals', they're all very diverting and virtually faultless.

PUZZLEABILITY:	*****
PRESENTATION:	****
PLAYABILITY:	****
VALUE FOR MONEY.	

Finally, Trevor Hall is rumoured to be preparing a special C16 textonly version of his classic Twin Kingdom Valley. Might Melbourne House follow suit with The Hobbit? After all, Tolkien's version was text only, too!













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# Mr. Software

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# Screen Scene Screen Scene Screen Scene



## Lands of Havoc Microdeal



Frankie Goes To Hollywood (The Pleasure Game) Commodore 64

Ocean Price £9.95/cass

of the Band' approach that Argus becomes a complete person.

they wear, The Pleasure Game

take it personally, that's simply

houses. There are four streets in

ing things up will gain you

shooting gallery - take pot of the screen. When you become

they fall from the sky.

Gorbachev spit at each other

# SCREEN STAR

Rupert and the Toymakers Party Commodore 64 Argus Price £7.99/cass



If you get this far you must right order. Tricky huh? All this



# SCREEN STA

#### Spy Vs Spy I Spy Vs Spy II Commodore 64

#### Beyond Price £9.95/cass

The black and the white spies in Spy Vs Spy had to pit their wits against each other in a race making good their escape in an

Each spy had to set booby traps for his opponent such as a bucket of water above a door, or bomb in a drawer, to stop him

It was all fairly tongue in cheek and very much in the tradition of screen shakes and the island fills the cartoon strip from Mad with lava, ending the game for

As a two-player game it was The good news is that the se-

version I left off. Both spies got onto the plane but have to abandon it over a group of islands them descending, parachutes

open, onto one of the islands. The spies are searching for a ing from a tree if you do. throughout the island. To locate it you will first need to find some finds it first other items: a map, compass and

against time as well as the other spy. But there is an added urgency on this island - it's got a swim in the shark-infested



When it goes off the whole

both spies. When you find the missile you streaks ahead of anything that have to defuse it and take it to

quel will shortly be available and, the missile first there are a number of traps that you can set for him. These are just as much fun as they were in the first conveniently beside the island Spy II takes up the story where game, particularly the coconut or, for the advanced player, have bombs that you make using the

gasoline from the wreckage of You also have a rope to set watch out you don't step into it yourself as you will end up hang-

There is also a gun hidden major advantage to the spy who this has got to be the best value

The game has several play options. You can choose to play a As in Spy I you are racing multi-island game where the missile parts are hidden on several islands necessitating a waters. You can also choose to



it appear at random somewhere in the waters surrounding the

Spy II is a bigger game than the The opening screen shows snares for your opponent - but original, it uses the same split screen technique and trap selection device but the complexity and game-play is much much

> At £9.95 for Spy I and Spy II ew release of the year.

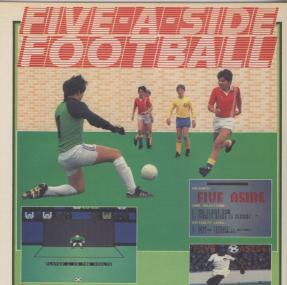




the edge of the mountain in

Skill level Value for money





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ANIROG

TRADE ENQUIRIES: ANIROG SOFTWARE LTD UNIT 10 VICTORIA INDUSTRIAL PARK VICTORIA ROAD DARTFORD KENT (0322)

# Screen Scene Screen Scene Screen Scene



£14.95/disk

M.U.L.E. Commodore 64 Ariolasoft Price £11.95/cass management/strategy persuasion but a cut above the "Run a Banana Republic" style of or presentation. You don't get an instruction leaflet but a player's guide, which is guite a hefty tome when compared with the normal brief run-down. You guide reading, he he will be a supported to the support he ins and outs. There are three standards of play available for four competitors with a handicap

Another cerebral game of the

feature built in.

A bovy of pioneers are sent to exploit a distant planet with the aid of Multiple Use Labour Elements. With a starting kitty

plus a small store of goods, each player attempts to develop the environment better than the others by selecting the most propious land plots for the production of food, energy or maybe smithore. You step through several phases: colaiming a plot of land; fitting out your M.U.L.E. with the most suitable equipment; wampus hunting or gambling; the actual production with the possibility of the odd sold rain store test food things up.

and the most important, cagey

trading section. There's Begin-

ner, Standard and Tournament

modes. As you would expect,

the character with the most assets is declared pioneer of the

year.
Things gradually get more complex with the introduction of fresh concepts to give the grey

matter a more strenuous workout.

A complex trading game with the odd cartoon interludes, best played with a full house. [LS]

> Presentation: MHHHH Skill level: MHHHH Interest: MHHH

War Machine Commodore 64 Pocket Money Software Price f1.99/cass

Microdeal have decided to wade into the cheapie market with the Pocket Money label, mostly concentrating on the Dragon but with a couple for the 64.

When the Vic was young, the



manual contained a game that was impossible to enter correctly

as the tic apology-cumexplanation far too take to comfort exaperated first time users. That listing was Trank Vs UFO: and is still to be found served up more professionally in type-tiskins overhead you have to skins overhead you have to spurt out shalls, avoiding returned bombs at the same time: obviously timing is everything. Englaging enough when you've listing but hardly us to the state. change is what you're after thein you will be more than pleased to buy a machine language version that throws in enemy tanks to boot. There are several lanes to move about in, delineated by rocks which are but minor encumberances for trained hunter-killers. Simple action but as fast as you like.





Dropzone Commodore 64 US Gold Price £9.95/cass £14.95/disk If you've had a micro of any description for the last three years you will doubtless have seen several skirs on *Defender plus* one or two straight renditions. *Guardian* by Alligata was surely the best of a bunch that included

But now, the marauding, frenzied foes have boomeranged back again, thinly disguised and with aliases, defying you to send them to happier hunting

grounds.

The normal rugged terrain, only shown in outline in the past, has been given the full in-depth treatment, and now you get a

joystick no longer prompts a ram jet but a very vulnerable looking chapple in a space suit sporting a jet pack. He's carrying a indiculously powerful laser and the customary arsenal of smart bombs — which he must keep tucked in his utility belt. Invisibility and invulnerability is but at stab of the F7 key away, but you have to earn extra units by nifty

dard of the latest space epics.

Still, if a simple ballistic ex-

Your task is to escort the humans to the Dropzone inter-cepting the planters (nasties) who release androids which mutate your chums into nemesites (more nasties).

Our lighting masnes and a ceasiny dizzle. Then there are baiter contraptions, spores which release trailers plus the essential antimatter. The scrolling is related to the contraption of the contraption o

Presentation:	
Skill level:	
Interest:	
Value for money:	



The Chess Game Commodore 64 Micro Classic Price £7.95/cass The epithet 'original' can be bestowed on this first release from the new software company with the ambitious-sounding name. As they have already written Hunchback for Ocean, their launch program is not likely to be a flash in the pan.

What we have here is a series of arcade puzzles, enacted in full perspective, dredged from a cheas fanatic's full-blown night-mare. It may seem a breeze to march pawns across a chess board even if a hostile horde of creeps is hemming you in . . . but it isn't. Hunting you down is a

different chess piece on each screen, clonking around through its recognised move patterns. Combine that threat with the deadly red squares (again generated in a different manner for each phase) and you have a real challenge on your hands, it's a game you have to work at, probably appealing in the main to the 'sophisticated' gamester or the isided zanour. This one won't

date like last year's space games.

The graphics are just the ticket. The oddball freaks, ever ready to grab you should you trip over the edge of the board, have that medieval creature-from-hell look and are much given to hurling fireballs. As for the animation, it's realistic 3D throughout all 64 squares. If you are determined there is

If you are determined there is plenty of entertainment to be tapped.

Presentation: MRMM | Skill level: MRMM | Interest: MRMM | Value for money: MRMM |

# VIZASTAR 64 A DELEMENT ROLL ALL NOTIFICATION ALL NOTIFICA

PRODUCE... If HE HEALTH STORMER THE THE LITTLE TO GE WANDER OF THE PRODUCE OF THE

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# Screen Scene Screen Scene Screen Scene



Timeslip Commodore 16 English Software Price £6.95/cass Timestip, for want of a better the description, is a description, is a description, is a description, is a description, as of Scramble rolled into one. The screen is divided into three the property of the description of the description of the scription of the description of the

When you've wiped out the orbs in zone one it's on to zone two and what the blurb

describes as 'jet through the underground caverns'. My version had underground caverns alright, but the 'jet' bore more of

alright, but the 'jet' bore more of a resemblance to a sparrow. Anyway, the order of things in zone two is much the same as for the previous one. You have to manipulate the jet (sparrow) around all the nasties and destroy the twelve orbs.

You have to complete your mission and destroy all 36 orbs in 24 hours (not real ones). In addition, you must synchronise the clocks in all three zones to 00.00

If you do take a hit, or do

something stupid like crash into the mountains, you incur a 30 minute penalty. As if that weren't enough to screw you up, if you get hit five times a 'timeslip' occurs, i.e. all the clocks are desynchronised. Ha ha what a laugh. Had me in stitches after



Super Gran Commodore 16 Tynesoft Price £9.95/cass I'm going to have to be a little more limited in my praise than I might have been. Having loaded Super Gran, I eagerly plugged my loyatick in and proceeded to whizz around the screen on the famous "fly cycle". Good graphics here, I thought, and a considerable improvement on the 64 version despite inferior

Only problem was, half an hour later and I'm still there trying to avoid the imposter Gran and her deathly cannonballs. I come to the conclusion I must be doing something wrong and refer to the instructions. "Gran's only protection in the use her marrier.

Hay Machine. Having survived that screen she moves on to the next action."

No, I seem to have got it right. I go back and have another bash, this time persevering for over an hour, but the maximum amount of time I seem able to survive is about a minute, obviously not long enough. Now I'm no wally when it comes to handling a joystick. I made Group Captain in Solitifice 40, I'm up there with the

best, honest. But this one had me stumped. I can understand Tynesoft wanting to make the game a challenge, but isn't this going a

superhuman feat you manage to get past the first screen, there are five more to tackle. Phew!

Value for money:

are five more to tackle. Phew!
So all Lean really say is that the
first screen of Super Gran is pretty good in terms of graphics and
sound, if a little difficult to get to
grips with. If the following
screens are up to the same standard then it's not half bad and

Presentation: WMM 00 Skill level: WMMMM Interest: WM 000 Velue for money: W0000



Sword of Destiny Commodore C16 Gremlin Graphics Price £6.95/cass Sword of Destiny is one of those games that comes with a cassette inlay full of hype, but which in Itself doesn't amount to an awful lot. Just take at look at this: 'Kelok - a master warrior of the eastern region – has been killed in battle by Xorphas, an evil warlock. Not content with killing Kelok. Xorphas has stolen his heart. leaving Kelok's soul to wander for ever, doorned to the wander for ever, doorned to the

torment of death with no peace.

It goes on. I'm not against this
sort of thing in principle, it adds
an imaginative angle to games,
but it has to be backed up.

Rasically. Swand of Destiny is

a platform game without too many platforms. You move Kelok around, killing the various zombies with a swipe from the old sword. As well as this you must pick up certain objects as you go to open up other sections of the Abysts. Killing the zombies is an activity which must be executed with a certain amount of gasto with a certain amount of gasto Power and it's start again time. Graphically it's not all bad.

Graphically it's not at all bad. Kelok himself looks a bit like a Roman Centurion and moves quite smoothly. The zombies bear a remarkable resemblance

Apart from anything else the game seems to lack any kind of structure. After half an hour of killing telephones I began to think: why am I doing this? The answer? I was trying to work out why the music kept turning itself on and off for no apparent reason. Maybe Gremin should get the people who write their lays to design the software [EM]

Presentation: Skill level: BECCC Interest: Walue for money: BECCC



Dork's Dilemma Commodore 16 Gremlin Graphics Price £6.95/cass Dork's dilemma is that he has crash-landed on a strange planet that looks remarkably like a maze. He leaves the tangled wreckage to take a nose around and in his absence the allens, or natives depending on how you look at it, have dismantled the craft and hidden the bits.

corat and hidden the bits.
This is where you come in. No
have to guide Dork around the
maze to retrieve the fragments of
his ship; there is one on each
screen. They are not too difficult
to locate because each part is
smack in the middle of the
screen. The difficulty arises in
avoiding the Zobwats – little

creatures which follow you around and attempt to entrap you in cul-de-secs. Contact with a Zobwat spells instant death.

Another thing in your favour is

that you can convert Zobwats into allen pulp by employing the lazer splat time bomb (their speliing, not mine). The only problem with this device is that it's fairly indiscriminate. It has a very short fuse and unless you're quick on the retreat you'il end up pulped

along with the hapless Zobwats.

If you get to the centre of the maze you can pick up your spare part and then move on to the next screen. Should you get to

the stage where you have all the bits they then have to be assembled in a jigsaw on the far right of the screen. I didn't actually get this far — I got bored. On the whole, Dork is a pretty average game. There's nothing

average game. There's nothing wrong with the game, at £6.95 even the price is average. I just wasn't inspired.

Presentation: WM 000
Skill level: WM 000
Interest: WM 000
Value for maney: WM 000

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#### Skyfox Commodore 64 Electronic Arts/ Ariolasoft

#### Price £9.95/cass £12.95/disk

Skyfox provides us with an irresistible opportunity to resume the debate over American software versus our own homegrown games. The game comes from the Electronic Arts stable — probably America's premier games house.

Judging from the enthusiasm with which they demonstrated it at the recent Consumer Electronics Show in Chicago, they obviously consider it to be pretty hot — definitely one of the best titles in their latest batch of releases.

So what is it? Basically a 3D

shoot 'em up in which you pilot the Skyfox Mach 4 Federation fighter plane, against the enemy, whose motherships are attacking Federation asteroid bases

The game has a tactical side as on well. You must use informat use information from a satellite-view to track the positions of the invaders and plan your attacks. All the normal flight aids you'd expect with this type of game are present: shields, scanners, radar, such pilot, and a thrust button, and a thrust button, and a thrust button, and a characteristic sequely sophistic cated, including guided missiles as well as normal rockets.

Graphics are superb. Highly detailed, and fast moving. This is undoubtedly a high quality game BUT — there is nothing new or unique about it. It may be a slightly better rendition of some of the 3D strategy shoot "em ups that have gone before but it is not breaking any new ground as far as gaming is concerned and is



not up to the high and innovative standards set by Electronic Arts in the past.

If you want a deep space

shoot 'em up with strategy thrown in then Elite has to be a much better buy. If you've already got Steller 7, Death Star Interceptor, or any one of the dozen or so rip-offs of Star Raiders, there is absolutely no reason for you to consider buy-

So where does this leave us in the debate? For my money, if this is the best that America's top games house can come up with then British software houses should take cheer. Shadowfire, Strange Loop, Way of the Exploding Fist and Entembed are all better games than this piece of Yanksoft.







#### Monster Trivia Commodore 64 US Gold Price £9.95/cass £14.95/disk

unlicensed version of the current fad board game 'Trival Pursuit'. The basic prot is that you enter a Professor's mansion and are taken down to his cellar, where the Trivia Monster awaits. If you know lots of incredibly useless facts about nothing of import tance, then you might escape the monster's clutches. Prove

So far, so good. What we have is an excuse to test out your general and specific knowledge — something everybody likes to do, that's why quiz shows are popular. But I'm not that easily satisfied.

fifteen different sets of questions, which you select by loading the tape at a certain point on the tape counter. It took me several loads to get it right and proved pretty irritating. Never mind, I thought. Cosmi did the

same thing on Super Huey, it doesn't really mar the game, plough on regardless.

tener you are strong cown in posture life's a game for 2 playeral being fed to the monates before being fed to the monates tions such as sports, showbit tions such as sports, showbit to the arts and history and you have to type your answer into the machine. Now let me ask you further. What do all US Gol games have in common? Eas one, they're all American, yo know what that means respect to this game? No don bother, IT is styou. The quest pother, IT was you. The quest pother. It was you want pother. It was you was have much to speak of, but when it comes to sport, you're likely to find yourself struggling over baseball and American footbal questions. History dwells or wars of independence, battlet with injuns and obscure treatiet

This is all inexcusable. US Gold have snapped up the game and bashed it out without bothering to reprogram some anglicised questions in place of all the Yarkee trivis. Money for old rope in other words. Save your dosh and do a crossword or, if you must, buy the board game. MEP



# Screen Scene Screen Scene Screen Scene

# SEREMENTAR

Summer Games II Commodore 64 Epyx/US Gold Price £9.95/cass £12.95/disk gold medal winning superstar. Epyx are not taking it lying down, though. The top American arcada game writers (Impossible Mission, Pitstop I and III have just launched Summer Games III — with eight new events. Jöystick manglers are going to time one of them wins an event. There is also an opening ceremony complete with white doves and, of course, a winner's rostrum.

The new events are Triple Jump, Rowing, Javelin, Equestrian, High Jump, Fencing. take a lot of practice to get it right but it's fun when you do and the animation is stunning.

The javelin is also excellent — you can almost feel the weight of

the spear as you balance your athlete for the throw. What I like about Summer Games II is that more skill is required to master it than with other similar games, It's more

lights out of the joystick.

With the high jump, for example, you've got to get your approach to the bar just right — as

pace.
Race freaks are not left out, though, as there are two of these, cycling and rowing, as well as a head to head fencing

Ask any 64 gamer what, in their opinion, is the best sports simulation on the market and chances are they will say International Soccer. That opinion is going to change — Summer Games. If must now take the



in the Top Ten computer games same frills that made the original that should have been hits, Sumgames on eye-catching. Things games so eye-catching. Things games so eye-catching. Things that the second section board—in the same of your flag and the second second section but in the second second section but in the second se

and the original attribute. The best of these fection board — masterpiece of progress you for the substitute of the subs

The best of these is the Equestrian challenge which is a masterpiece of programming. Not easy though — requiring six different positions of the joystick. First make your horse canter, then gallop, approach the obstacles correctly, jump, and

191 AUG 2011.

Locomotion Commodore 64/C16 Commodore Price £5.95/cass with the runaway trains. There are two ways to play, as a strategy challenge, or just a strategy that areade game. The strategy game — levels 1-4 — is the most enjoyable.

all the countries represented with flags are played back each

ill of gold and deliver them to be bank. The trucks are left at indom around the network in 5d sidings. To pick up a truck ou reverse into it at no more an twenty miles an hour. Any ister and you crash.

you travel the system you not a truck, possibly severa away. The challenge now ed at any given time and you must also watch the indicato below the game window it check the contents of each truci connected. Various cargoes have different uses. The sheriff pro tects you from the outlaws that are dotted around the country side looking menscring on their

side looking menecing on their horses. There are also bridge parts, rails, explosives, livestock, and fuel in some of the trucks. It's good fun to play despite rather basic graphics and slightly sluggish controls.

The bridge levels record in control is at

a test of reflexes. The train kept at a constant 60mph of these levels and you don't ru

trains, and prevent crashes swift point changes.
If you played any of these tragames in the arcades and lik

Presentation: WRN CO.
Skill level: WRN CO.
Interest: WR CO.
Value for money: WR CO.



Kennedy Approach Commodore 64 Microprose/US Gold Price £9.95/cass

£12.95/disk

around some very impressive speech synthesis. You Sterally talk the approaching planes down as they crice the airports. To make contact with an incoming plane with the joyatick, coming plane with the joyatick, or the plane with the joyatick, and the joyatick with the joyatick wi

As well as keeping a constant teck on the positions of all airaft there are additional hazards such as mountains, severe weather and even over-cauti security forces in Washing who will shoot you out of the if you fly too low over the Wi

At the end of a shift your performance is measured and you are paid accordingly. Bonuses are awarded for successful landings, proper exits, and emergencies handled correctly.

If you commit any major er rors, such as a crash or misse exit, you are sacked and you career as an air traffic controlle is at an end. If you do mak mistakes the game enables yo

cellent strategy game. If you ton prefer the deeper, more involved to the ton prefer the deeper, more involved to the ton the this is definitely for you.

ours you begin to feel some of the power, and tension, of a realfe air traffic controller. "Wild" Bill Steeley and the

Wild' Bill Steeley and the croprose team have come up the another excellent flight me. Deserves to do as well as to Flight.

Presentation:	HHHH C
Skill level:	BBBB
Interest:	-
us for money:	-

#### creen Scene Screen Scene Screen Scene



#### Action Biker Commodore 64 Mastertronic

Price £1.99/cass 'm not sure what KP Skips this latest game from Mastertronic but it didn't stop me from

The KP Skips (love the Prawn

on screen when the game is loading and also appears on the front of the inlay card. I suppose snacks you will like the game. Anyway, back to the game -

the best Mastertronic cheapie I've played yet. It's a 3D scrolling game, a la better. It is no easy task manoeuvring your bike and coping with its gears, speed, and the

fence, wall, or building.

Certain items are dotted Cocktail ones) symbol comes up around the town and these can make your race a little easier. caution. Particularly if you find the turbo charger that puts a little extra zing into your acceler

At the end of the game (if you have successfully explored the town) you will find yourself in a drag race. This is the supreme test of your riding skills. As you ride you will need to keep an eye the scrolling view of the town. This tells you how much fuel

pull up beside the tanks, and you will automatically be refuelled are scoring. Bonus points are awarded for speed

All in all this is a very reasonable buy at £1.99. We tend to urge caution where cheap software is concerned but in this case you can reach for your hardearned with confidence. E.L

> Presentation Skill level: -Interest-Value for money:



Enigma Commodore 16 Commodore Price £5.99/cass Enigma is a Berserk-type game. You know - a little robot dozens of rooms full of nasties and several keys to be collected The original Berserk started out in life as an Atari arcade game, was converted to run on the video games console, and has since been copied on just about every home computer at least a

Many of the highly sophistisale owe a debt to the basic room-exploring design of Berserk, It's a brilliant game idea

Enigma is a very worthy copy

are used to good effect. Each time you enter a new

room the background colours change - which is rewarding Your robot is armed with a laser gun that spits out bright

One of the most enjoyable bits of the game is when you enter a room full of nasties - you can spin your joystick through 360 degrees blasting all the nasties in

one go. This is a bit risky, though, and it's probably safer to pick them off in ones or twos. When you have collected all

the keys the game is won. Each time you get a key it registers on a panel at the bottom of the

screen - and with a bleep from If you liked the original Berserk game then you will like this too. It's encouraging to see Commodore supporting the 16 with some good quality games. [L]

> Skill level Interest Value for money:

to the right was a Dark Tower, a Tower of Evil. It was beyond the Realm of Im-

possibility that I could buy a Big Mac here.
I had travelled to the Moon Cresta for the annual games, in the Sky Jets were flying and the Glider Pilot flew his Doodle Bug in a Strange Loop just missing a Boulder. "Dash 2 late" said a hung-over Super Gran. "Suffering from Grog's Revenge eh!" enquired Jonah Barrington. "Squash is what you should stick to. Hi Bouncer Mind'er over there she's drunk." At this along came Bounty Bob. "Strikes Back on" he told them, "all because Stringer was Entombed in the Rock. Man that was some Operation, Whirlwind got up and the Super Pipeline was blocked. We thought it was a case of RIP, but Brian Blood Axe'd his way through so he could Carry On Laughing." "Blagger Goes to Hollywood tomorrow" said Berks II and III in unison, but no-one took any notice as Roland's Race was about to begin. It was no ordinary race as it included Spooks, among them were Talla, Dega and a group from the Theatre. "Europe the gates together" said Spy, Hunter of the town. "Fasten it to the Rock 'n' Bolt it down''. Indoors the Cave Fighters were getting ready to begin their Operation, Sword, Fish and other strange weapons at the ready. All in all it was one bumper package of games.

"There I stood" etc "An announcer

Roy Beautoy also gets a mention for

# 

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# Programming The Commodore 64

by Raeto West

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# Screen Scene Screen Scene Screen Scene



#### Five Aside Commodore 64 Anirog Price £5.99/cass

£8.95/disk
Anirog follow up their last sports success with a five-a-side foot-ball game and a penalty shootout competition for one or two players. If you bought Slap Shot, though, you're going to get a severe case of deja vu.

What crafty old Anirog have done is keep the old program and change the graphics so the men look like footballers. This means that the ball is constantly in play just as it is in the real thing. However, it ricochets around the pitch like nobody's business and sounds just like a puck. All the features of the ice hockey game features of the ice hockey game.

are still there, and some of the faults too.

Most out of place is the roughing facility which allows you to stand over an opponent, hit the joystick button and dump him on the ground. Too much of the disry stuff and you give away a ty stuff and you give away is is simply a kick-off to the other team. Come on, Anirog, you could've changed the rules for this bit at least if you persist in fouling a player you run the risk of provoking him to turn round and stug it out with you. This and study is not with you. This penalty. Brarre rules!

The better option in this game is the penalty play-off. You table penalties alternately against your opponent, acting both as kicker and keeper. Graphics here are better, with a large chunky keeper, although the goal is a bit small and the ball a bit large. You

with the joystick.

Sound is often the best thing about Anirog products, and this game features speech such as "he's scored", whistling and cheering. Here we go' plays throughout. At the price it's not bad value, but it seems daft puting out a football game unless it's going to be an improvement on the Commodore version. Nor as it worth buying if you bought? Slap Shot.

Presentation: Number of Skill level: Number of Manual Control of Skill level: Number of Ski





International Tennis Commodore 64 Commodore Price £5.99/cass

Commodore has a well-earned reputation when it comes to sport simulations. *International Soccer* set the standard for

everyoony esse, and their recent basketball game demonstrated that the style was still way ahead of all the opposition. Supersoft's brief to their programmer when they were producing a cricket program was for it to be the equivalent of Commodore's Soccer. So with a new release from Commodore you'd expect them to stick with what is, after all, a successful format.

Wrong.
Gone are the chunky figures of old, gone is the smooth movement and definition there once was. Gone is programmer Andrew Spencer. In place of all these attributes is something that is not awful, but merely average. The major problem in the gamesplay. As before, the ball has a 30 offect shadow, but

because the rest of the game is rather two dimensional and the shadow is so small, it is very difficult to pick up the path of the ball. You're likely to be standing on one side fully expecting to receive the ball on the backband and end up having to run across court. This is a major obstacle to enjoyment.

enjoyment. In contrast to Activision's On-Court Tennis (reviewed last month) you have to move your player to the ball and play the stroke. The leght different joystick directions allow eight different joystick directions allow eight down!" and 'medium cross up'. You will not master this game immediately. It is very difficult to hit a ball on the run, because you are moving the joystick in one

the fire button you will hit it in that way.

Serving is reasonably simple but that is where it ends. You need to be able to rally well and to do that you are going to have to spend a lot of time mastering the controls. I get the impression this has been a rush job to get it out for the Wimbledon bug that grips the country for two months



Crazy Painter Commodore 64 Pocket Money Software Price £1.99/cass



Normally on "Painter" games you have to zip round a grid avoiding chasers summoned up from the depths of the author's imagination. Here you have to coat the entire screen through eight levels of difficulty while

suffering from the attentions of medification casis. Each creature or object will spoil your handi-work in a variety of ways. Dogs plough through, bubbles burst and splatter sway a sizeable chunk while worms ... well, worm their way erratically across pristine top coats. There are also paint-pot and brush nickers hell bent on preventing you completing the elight screens. While this is going on a continuous medicy is churning continuous medicy is churning.

out from the SID chip.

Not the most exciting of games to be sure but it is dif-

ferent and well worth the asking price especially to our younges brethren. 'Cheapies' often reflect the state-of-the-art of two years previous which is okay if it's a simple game you're after. Looking at the titles available for the Dragon it is hoped that

Steve Bak will convert a few for the 64 to gee up the budget market further.

Presentation:

# **COMPOSE**

Activision's Music Studio reviewed by Fred Reb

Remember the impressive rendering of the Ghostbusters theme tune in Activision's megagame? Now, that same company has produced a music composer program for the Commodore 64 that looks like being just as clever: it lets you use colour and even write your own lyrics. Producing a smash hit couldn't be easier?

There's probably been more than enough music composer/synthesizer packages developed for the Commodore 64, most of them had some pretty severe limitations. What a pleasant surprise to discover that Activision's beautiful package semi Music Composer package semi have found its way round most of its predecessor's hang-ups.

Two versions of Music Studio are available: the cassette version on review here and a slightly more advanced version for disk users. It will cost you £14.99 on cassette and £19.99 on disk.

In both cases, the software arrives in a library-sized case along with a truly pocket-sized manual (comprehensive despite its size), and a supplement for users of the cassette version. In any case, the Music Studio manual provides all the necessary information to get you started quickly.

#### Getting started

Loading from cassette takes just over three minutes and while you're waiting you're entertained with a hires picture of a studio foyer. When loading is completed, you are requested to 'Press Stop on Tape', and select an input device. Music Studio lets you use either a joystick Studio lets you use either a joystick and you wait of the pad joy the studio lets you use either a batter batter shaped curson as the Koaland.

The music editor screen is dominated by the stave (the ten lines that you write music on), with the lower third of the screen given over to the 'menu'. Each item on the menu is depicted by a picture or symbol. When the cursor rests over the picture of the function you wish to use, simply pressing the fire-button will set things in motion.

Perhaps the most graphic example (no pun intended) is the trash can. Positioning the cursor over the trash can picture and pressing the fire-button twice (to prevent accidents) will completely erase all



Stave and menu options appear on the same screen—just choose your note and place it on the stave

the music, leaving you with a blank stave. Similarly, there are pictures of a printer (for printing your music), a cassette (for load and save options) etc.

### Write your music

Writing music couldn't be simpler. Move the cursor over to the note symbol, press the fire-button to select note entry and again to alter the note length (from semiquaver to semibreve) if you desire, and move the cursor up to the stave. As you cursor is replaced by perfectly cursor is replaced by note and you simply position it at the desired place on the stave.

Pressing the fire-button fixes the note in place and you can then position another note. As the note moves up and down the stave, Music Studio plays that note so you know where it ought to go.

Adjacent to the note symbol in the menu are symbols for rests, dotted notes, incidentals (sharps and flats), and even triplets (a triplet is three notes played in the same length of time that you would normally play four notes).

When you have entered a few notes, you'll be eager to hear what you have written. Simply point the cursor at the picture of an ear, press the button, and Music Studio obliges with a note-perfect rendition of the masterpiece you have just written.

A full range of editing commands are available; just select the appropriate symbol with the cursor and Music Studio responds. Various options include delete and insert a column (of notes), move a block of notes, copy a block of notes, copy a block of notes to the stay etc. Selecting the are of the stay etc. Selecting the are sound editor screen.

#### Change your sounds

Editing sounds is every bit as easy as editing music, perhaps even easier! Along the bottom third of the sound editor screen is a menu of

# MUHRIARE

the default preset sounds that are automatically loaded with the main program. From this menu you can select such diverse sounds as Clarinet, Flute and Tuba from a choice of evictors definets.

To alter a sound to your own specification simply select the function you wish to alter (wave shape, envelope, filter settings etc) and modify to your heart's content.

Most of the sound functions are adjusted by selecting a fader with the cursor, pressing the button removes the cursor and allows updown control using the joystick.

You have the choice of playing back a composition while you alter the sounds (select the ear symbol again) or selecting a continuous updown scale of variable speed (very useful for adjusting the envelope controls).

If you wish, you can build up a whole collection of instruments and sound effects, name them, and save the whole lot to cassette (use the cassette symbol on this screen for saving sounds) for permanent storage.

The package's ease of use is not far removed from controlling an actual synthesizer panel, thanks to the pretty stunning graphics. To exit the screen, you simply take the cursor off the bottom of the page, press the fire-button and you arrive back at the music editor screen.

#### Paintbox made

The manual describes this mode as a 'free-form method of composing'



Sound Editor screen is attractively laid out and contains a huge variety of editing functions

and it's designed for people who don't feel comfortable using real musical notation. So you use colours and shapes instead of choosing a real instrument and a series of notes: the idea is to 'paint' onto the state rather than committee.

Although this, to me, seemed the least attractive part of Music Studio, it is intended to be a short-cut method of producing music. Moving back to the Music Editor screen converts your composition into standard musical notation. Like other compositions, these can also be saved to tape or disk.

Finally, an unusual facility in Music Studio is that it lets you write lyrics under the notes you've just composed. Once again, all you need do is choose the 'words' option on the menu, point the baton to the note to be written under, and type the word in from the keyboard. There's room for up to four verses.

#### Conclusions

Overall, this is a beautifully thought to out and implemented piece of software. It's not only easy to use but pleasant to look at. The manual may be only pocket-sized but it's well documented — and it even gives you a brief tutorial on music theory, Apart from all that, it's very reasonably priced and must represent

- The Music Studio
   Activision
- 184 Regent Street London W1 01-439 7731
- Price: £14.99 (tape)
   £19.99 (disk)
   Highly recommended
- Next month we'll be looking at Island Logic's The Music System,

Paintbox Mode for colourful free-form composing

just converted from the BBC machine for the Commodore 64.

How do you get to talk to the world boss of Commodore? With difficulty. Eugene Lacey tracked him down to his plush Philadelphia office for his views on the new 128, the long-awaited Amiga and the future of

Marshall Smith is the man machines will rekindle at the very top of Com- Commodores flagging formodore. Or - as a fellow tunes in the cut-throat comexecutive put it when I visited the firm's headquarters at Westchester, Philadelphia, USA - "he's over the whole enchilada'

A pretty huge enchilada it is too, with 900 employees based at West- beautiful Pennsylvania chester, another office on the West Coast of America. factories and offices in the UK and throughout Europe, About the size of an aircraft Europe this Christmas" as well as a number of complants in the Far East.

Smith was brought in to boss's leather, swivel seat. head up Commodore after the departure of charismatic Jack Tramiel in a boardroom battle which saw the company founder depart, taking his two sons with him, (and half of the top brass of the company), to take over Atari.

The battles at Commodore dominated the computer press headlines in the US when Tramiel left. The former typewriter repairman and calculator tycoon creates news like few others in American hi-tech. Tramiel is a hard talking ("business is war") tough dealing embodiment of the American business dream. A first generation immigrant and self-made

Getting rich in the US decrees status like nothing else. But to do it all by yourself and from humble roots is the British equivalent of scoring the winner for England in a World Cup Final, getting a first at Ox-Minister before the age of forty all rolled into one.

To say Marshall Smith had a tough act to follow is a huge understatement But despite all of this I found no evidence of the ghost of Tramiel stalking the corridors of Westchester.

What I did find was a buzz of excitement about two new computers - the C128 and the Amiga — and a belief that these new

The man at the top surveys this new optimism buildings that spread over several hundred acres of

countryside. The office itself is straight out of "Dallas". hanger with suitably gigantic furniture to match including the standard

haired, world boss of bullish about Commodore's Commodore settled himself behind his desk and kicked off by saying some

nice things about the UK. "It's always been a very important market to us . ware has come from there" But what about the competition, Amstrad, and Sinclair, can Commodore regain some of the lost ground won by these

"Clive Sinclair seems to in the UK. But it looks as if QL." And Amstrad? "I want to go over to England and talk to some people, shop keepers and users about that. I think Amstrad will be our main competitor in

#### New computers, new hopes

future. His main hopes are pinned on the new comthat 28% of existing 64 owners in the US are going to upgrade to the 128. Extensive research and machine tests have been be something of a folk hero carried out with user

performance for the re-

mainder of '85. With a third

million dollars he needs to

be confident about the

groups there and many of plaster the corridors in "We put them there to

get the people around here with a smile, but quickly ment about the 128 and praise from users is entirely



major part of Smith's style. Commodore. Certainly the When a waiter interrupted firm are going to need all of his speech at a recent their muscle as they go into press reception by dropp- the next phase of the war the confidence to quip "is home and business compu-that Tramiel at the back".

the pipeline". grammers can't resist The American computer those graphics chips, but

about the Amiga - its ad- going to be more probleing a tray of drinks he had for market shares in the vanced specifications and matic the software it promises -Big business software though one audience is yet houses don't like non-stan-

**GOING FOR THE** PRESIDENT

## Commodore International boss, Marshall Smith, interviewed

But if it's a jolly, elder statesman public image, its will take them into competi- retailers. every bit the shrewd busi- tion with the real big boys ness administrator with in the business - IBM and is. years of boardroom exper- Apple. If Commodore can \$1500, who is going to buy likes of Lotus Development ience, behind the scenes.

vacuum left by the depar- the Amiga. The 32-bit young team he has as- 6800 processor and now sembled around him have famous customised chips pretty impressive creden- code named 'Portia'. tials - hand picked from companies like Coca Cola and Apple. In American business terms that's pret- I asked Marshall Smith if ty high up the ladder.

credentials for heading up the world's largest manuputers is no less impres-54-year old manufacturing and finance specialist with

Immediately prior to join-President and Chief Executive of a huge manufacturing company called Thyssen - Bornemisza, He is used to managing multi million dollar companies.

the last few years Commodore is now one such company. That sheer size is now both the strength and potential Achilles Heel of

Smith moved in cautious- weapon reserved for this answer. ly to fill the management conflict it must surely be

business machine with its 'Agnes' and 'Daphne'

### The Atari Attack

the Amiga wasn't just the Marshall Smith's own same as the Atari ST "There is just no comparison with the ST. Anybody facturer of home com- can pick up a Motorola chip for \$8 and build a machine sive. Michael S Tomczyk around it, but it can't do said of him in his book half of the things that the Amiga can . . . it can't multi task. The sound, colour and graphics on the Amiga are better in every respect". So rough-and-tough steel you are dismissing Atari? "I never dismiss competitors

any time I've done that before I've lived to regret it". Marshall Smith expects IBM and Apple to respond

to the Amiga: "They both have world wide reputations ... IBM is a world standard and Apple is very strong here in North and they have the PCII in lots of games - the pro- ahead.

What they want to know be said to have a secret it? Marshall Smith has the

"It's not a beginners' machine, though for some people it will be their first home is what Amiga will ofpeal strongly to a computer

Commodore expect the Amiga to be in their range of machines for a long time. whole family of machines" How long exactly will it years? - that'll do" says nothing.

#### Amiga means business

have to compete in the pany want to go. Business, business computer market, home, or both? One question mark over the be third party software sup-

This phase of the battle to be convinced, the dard operating systems like Amiga's "Intuition". It's go-

ing to take some effort at between \$1000 and therefore to persuade the and Ashton Tate to convert their popular business packages to run on Amiga.

This problem could be solved by a rumoured MS computer. Business at DOS cartridge for the Amiga. But Marshall Smith fer. I expect it also to ap- is not putting everything on Amiga in the What Will Eventually Be The Standard In Operating Systems guessing game. He has a

finger in almost every pie: "The machine is going to two PC DOS clones, a Gerlast ... we are looking at a man built Unix machine, and even the new C128 running the trusty old CP/M. last? "I'll settle for - what The strategy seems to be was the Apple II? - eight watch and wait and ignore Perhaps the real ques-

tion is not what operating system Commodore will eventually nail its colours Clearly Amiga will also to but where does the com-

Marshall Smith claims to machine's viability here will have a clear view of this even if no one else seems port. Home entertainment to: "Our turf is the home. software is no problem with the school, and the office Flectronics Arts (12 titles) he told a press gathering in Broderbund, Mindscape, Chicago in June. If he Activision, Infocom, and means it he is going to America. We know that Ap- First Star all beavering need all of his big business ple is working on a colour away writing games on pre- experience to pull all of that Mac. IBM too are known to production machines. No off against IBM, Apple and be working with graphics doubt there is going to be the Japanese in the years Since the dawn of the computer age the prices of home computers have been steadily falling.

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Programs Pro

# Spy Eyges - TOF THE UNEX by P. Donahoe

- for the Unexpanded Vic

Spy Eyes is an excellent game based on a very simple idea. The screen flashes a list of directions for a mere split second, and you have to duplicate them on the keyboard. This is a doddle to begin with, but Herculean feats of memory are required as the directions get more complex. One of those games that makes you want to smash the Vic to pieces!

10 LET SP=0.3 20 PRINT CHR\$ (147)

25 LET H#="NOBODY"

40 LET K=0:LET S=0:LET L=1

50 PRINT " >>SPY EYES<< ": PRINT 60 PRINT "PRESS G TO GO"

70 GET C#

80 IF C\$<>"G" THEN GOTO 70

100 IF K=5 THEN LET L5L+1:LET K=0

110 LET M\$=""

120 LET C\$=""

130 FOR T=1 TO L 140 LET N=RND(1)

150 IF N>=0.5 THEN PRINT"LEFT":LET M\$=M\$+"L"

160 IF NO.5 THEN PRINT"RIGHT": LET MS=MS+"R 170 NEXT T

180 LET K=K+1

190 FOR D=1 TO 200\*L\*SP 200 GET C\$

210 NEXT D

Programs Programs Programs Programs

220 PRINT CHR\$(147)

240 PRINT "WHAT WERE THE DIRECTIONS"

250 FOR T=1 TO L

270 GET C\$

280 IF C\$<>"R" AND C\$<>"L" THEN GOTO 270 300 IF C\$<>MID\$(M\$,T,1) THEN LET E=1

310 NEXT T 320 IF E=0 THEN LET S=S+L

330 IF S>=H THEN LET H=S 340 IF E=1 THEN PRINT "YOU LOST HIM! SOME SPY!"

350 PRINT "SCORE=";S

365 IF E=1 AND S>H THEN LET H=S:GOSUB 410

370 IF E=1 THEN GOTD 40

390 NEXT D

410 PRINT "THAT IS A HIGH SCORE" 420 PRINT "PLEASE PUT YOUR NAME IN"

430 INPUT HI: RETURN

44 COMMODORE USER



# Surprise Poem

The Great Bard couldn't have done better than this: a poem, appearing mirarbously on your screen, letter by letter. But there's a twist in store at the end. The author has cleverly coded this verse so you can't read it until you've actually typed it in and RUN it.

"horrifying" — Birdwatchers Weekly.

1910 AF C2) = PERSCHOLTEU (MPC) NOT THE PERSON THE PERS

1030 A#(4)="UIBU!UIPVHIUT!PG!IB00J0FTT!B0E!KPZ!!!!!!J0UP!NZ!IFBSU!EJE!T0SJ0H

FE" 1050 A#(6) ="J!HFDUMZ!DMPTFE!UIF!XJDEPX-!!!!!!!!!!!BDE!DSVTIFE!IJT!CMPPEZ!

FBE"
1055 PRINT"[CLS][BLU]"

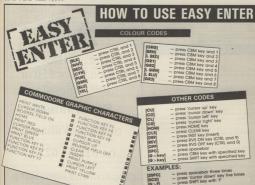
1060 FOR I=1 TO 6 1070 FOR J=1 TO LEN(A#(I))

1080 PRINTCHR#(ASC(MID#(A#(I),J,1))-1: 1090 FDR K=1 TD 500:NEXT K 1110 NEXT J

1120 PRINT: IF I/2=INT(I/2) THEN PRINT 1125 FOR K=1 TO 1000: NEXT K

130 POKE 36879,24+I:NEXT I 140 POKE 36879,110 — for the Unexpanded Vic by A. Baker

by A. Baker



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# rograms Programs Programs Programs

### - for the Commodore 64

### by Andrew Ridgwick

Andrew Ridgwick has produced a game that tests your dexterity more than your zapping skills. Your mission is to guide the spacecraft down through the cavern and touch-down safely on the landing pad.

There's three caverns to negotiate, each getting more difficult. Use the 'A' key as the left thruster, 'D' for right and F1 to go down.

Movement is very smooth and precise but don't waste too much time because your fuel is running out.

Beeping sounds, a good crash sequence and a score table complete this compact but addictive little game.

# 5 GJ=0

10 PRINTCHR\$ (147): POKE53280.0: POKE53281.0

20 PRINT"[4CD][8CR][L RED]THE [CD][YEL]CAVERNS [CD][PUR]OF [CD][GRN]MARS" 30 PRINT"[10CD][3CR][CYN](C) MAR 1985[CD][2CR][L BLUJANDREW RIDGWICK"

50 POKE52, 48: POKE56, 48: CLR: POKE56334, PEEK (56334) AND 254 55 POKE1, PEEK (1) AND 251

60 FORI=0T0511:POKEI+12288,PEEK(I+53248):NEXT 70 POKE1.PEEK(1) DR4

71 POKE56334, PEEK (56334) OR1

72 PDKE53272, (PEEK (53272) AND240) +12

75 FORI=12288T012288+7:POKEI,255:NEXT

76 FORI=12424T012424+7: READX: POKEI.X: NEXTI 77 FORI=12368T012368+7:READX:POKEI,X:NEXTI

78 FORI=12416T012416+7:READX:POKEI.X:NEXTI

80 FORZ=12480T012536+7:READX:POKEZ.X:NEXTZ

90 PDKE54296.15: PDKE54278.12: PDKE54277.15: PDKE54276.V 100 READH: READL: READD

101 GETD#: IFD#=CHR# (136) THEN200

105 IFH=-1THEN150

106 GDTD110

110 POKE54273, H: POKE54272, L

115 FORT=1TOD: NEXT 120 POKE54277,0:POKE54278,0:POKE54276,0

125 GDTD90

150 POKE54277.0:POKE54278.0:POKE54276.0

200 PRINTCHR# (147)

210 PRINT"[2CD][2CR][CYN]A[2SPC]=[2SPC][YEL] LEFT THRUSTER" 215 PRINT"[2CD][2CR][CYN]D[2SPC]=[2SPC][YEL]RIGHT THRUSTER"

220 PRINT"[3CD][CR][CYN]F1[2SPC]=[3SPC][L RED]MAIN THRUSTER"

230 PRINT"[7CD][11CR][L BLU]HIT F1 TO START"

235 GETY#: IFY#<>CHR#(133) THEN235 250 PRINTCHR# (147): Q#="[L BLU]"

260 PRINT"[HOM][ORG][4CD]"

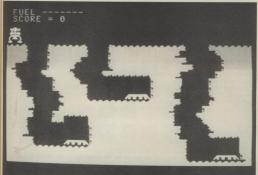
275 PRINT"[CU]@@@£[3SPC]]@@@@@£[3SPC]]@@@@@@@@@@Y[5SPC]Z@@@@@"

280 PRINT"[CU]@@@Y[3SPC]]@@@@Y[4SPC]]@@@@@@@@@@@@Y[5SPC]]@@@@" 285 PRINT"[CU]@Y[5SPC]]@@@Y[5SPC]Z@@@@@@@@@@@Y[4SPC]]@@@@"

290 PRINT"[CU]@£[4SPC]Z@@@@X[4SPC]Z<<<<<<@@@@QY[5SPC]]@@@@@" 295 PRINT"[CU]@@X[5SPC]]@@@X[11SPC]]@@@@@[4SPC]]@@@@@@"

300 PRINT"[CU]@@£[5SPC]]@@@@£[10SPC]]@@@£[4SPC]]@@@@@@"

Programs Programs Programs 305 PRINT"[CU]@@@£[5SPC]Z@@@£[5SPC][YEL] QPPJ[DRG]]@@£[5SPC]Z@@@@@@" 310 PRINT"ECUJ@@@@£[4SPC]Z@@@@†††††††††@@@@Y[4SPC]E@@@@@@" 315 PRINT"[CU]@@@@+[4SPC][@@@@@@@@@@@@@@@@@Y[4SPC]]@@@@@@@" 320 PRINT"[CU]@@@@£[3SPC]]@++++@@@@@@@@@@@@@EE5SPC]Z@@@@@@@@@ 325 PRINT"[CU]@@@£[4SPC]++[4SPC]@@@@@@@@£[4SPC]Z@@@@@@." 330 PRINT"[CU]@@@£[10SPC]]@@@@@@@@@@£[4SPC]Z@@@@@@" 335 PRINT"[CU]@@@+[10SPC]]@@@@@@@@@@@X[4SPC]Z++++@@" 340 PRINT"[CU]@@@@£[4SPC][YEL] QPPJ[ORG]]@@@@@@@@@@@@@@@@@@@@ 345 PRINT"[CU]@@@@@ +++++++++++e@@@@@@@@@@@@@@@@@@ 350 PRINT"[CU]@@@@@@@@@@@@@@@@@@@@@@@@@@. CITYEL1 QPPJ[ORG]]@" 355 PRINT"[CU]eeeeeeeeeeeeeeeeeeeeeeeeeeneent11111116" 356 IFGJ=1THEN374 365 PDKE2040,13:FDRS=832TD832+62:READX:PDKES,X:NEXT 375 PRINT"[HOM3[CR3[GRN]FUEL ";Q\$;"-----380 PRINT"[CR][GRN]SCORE =":SC 400 X=24:Y=70:B=36:UI=20:GJ=1 405 V=53248:POKEV+21,1:POKEV+39,1:POKEV,X:POKEV+1,Y 406 GETR\$: IFR\$="A"THENFG=1:GH=0:TY=0 407 IFR\$="D"THENGH=1:TY=0:FG=0 408 IFR\$=CHR\$(133)THENTY=1:GH=0:FG=0 409 IFCV=UTHENPOKE1024+B,32:CV=0 410 IFFG=1THENX=X+1 411 IFB=6THEN605 412 IFB<=15THENPOKE54296,15:POKE54277,12:POKE54278,15:POKE54276,33 413 POKE54273,34:POKE54272.75 415 IFGH=1THENX=X-1 416 IFSC>=500ANDJL=1THENUI=14:JL=0 417 IFSC>=1000ANDFH=1THENUI=9:FH=0 418 IFSC>=1500ANDVM=1THENUI=6:VM=0 420 IFTY=1THENY=Y+1 422 IFPEEK (V+31) AND1=1THEN600 425 IFX>=256THENQA=1:60T0500 426 POKE1024+B,32 430 IFER=UITHENB=B-1:ER=0 434 POKE54277,0:POKE54278,0:POKE54276,0 435 ER=ER+1: GOT0405 500 POKEV+16,1:POKEV,QA:POKEV+1,Y 505 GETR\$: IFR\$=CHR\$ (133) THENFG=0: GH=0: TY=1 506 IFR#="A"THENFG=1:GH=0:TY=0 507 IFR#="D"THENGH=1:FB=0:TY=0 508 POKE54277,0:POKE54278,0:POKE54276,0 510 IFQA>=40THENQA=40 511 IFPEEK (V+31) AND1=1THEN600 515 IFQA<=OTHENX=255:PBKEV+16,0:GBTB405 516 IFFG=1THENQA=QA+1 517 IFTY=1THENY=Y+1 518 IFGH=1THENQA=QA-1 519 FORT=1T050: NEXT 520 POKE1024+B,32 521 IFB<=15THENPDKE54296,15:POKE54278,12:POKE54277,15:POKE54276,33 522 POKE54273,34: POKE54272,75 525 IFER=UITHENB=B-1:ER=0 530 ER=ER+1:GDT0500 557 GOT0405 600 IFX=24ANDY=70THEN425 601 PDKEV+21,0 662 IFY=187THENCN=10:GOTO701 603 IFY=131THENCN=20:60T0701 604 IFY=202THENCN=50:GBT0701 605 POKE53280,1:POKE53281,1 610 POKE54296,15: POKE54278,15: POKE54277,12: POKE54276,129 620 POKE54273,1:POKE54272,18 625 FORT=1T02000:NEXT 630 POKE54280,0:POKE54281,0:POKE54276,0:POKE54278,0:POKE54277,0 635 POKE53280,0:POKE53281,0 48 COMMODORE USER



- 640 FORT=1T0200:NEXT 645 IFRP=1THEN650
- 646 RP=RP+1:GOTDAOS
- 650 IFLV=OTHEN660
- 652 LV=LV-1:Y=70:X=24:FG=0:GH=0:TY=0:RP=0:P0KEV+16,0 655 IFB=6THEN660
- 656 POKE198,0:GOT0405 660 PRINTCHR# (147): POKEV+21,0
- 665 PRINT"[3CD][3CR]MISSION FAILED"
- 666 PRINT"[3CD][3CR]ANOTHER MISSION ?"
- 668 GETY#: IFY#=""THEN668
- 669 IFY#="Y"THENFG=0:GH=0:TY=0:GDT0250 700 PRINT"[CLS]": END
- 701 PRINT"[HOM][17CR][15CD]":CN:"\*":B
- 705 PRINT"[17CR][CD]="; B\*CN: SC=SC+B\*CN
- 706 X=24: Y=70 707 FORT=1T05000: NEXT
- 708 FG=0:GH=0:TY=0:P0KEV+16,0
- 709 PRINT"[DRG][HDM][17CR][15CD]@@@@@@@"
- 710 PRINT"[16CR][CD]@@@@@@@@
- 715 GOT0375
- 1001 DATAO,0,0,15,31,62,110,206,0,0,0,240,248,124,118,115,0,0,0,255,255,60,60,60 1002 DATAO, 96, 224, 248, 252, 248, 248, 252, 252, 252, 248, 252, 254, 248, 72, 0 1003 DATA63,63,127,47,31,11,0,0,0,26,63,31,127,63,63,63
- 1004 DATA254,254,252,248,254,252,254,252,127,127,95,79,79,127,79,127
- 1000 DATA34,75,500,34,75,500,-1,-1,-1 1010 DATA0,0,0,0,0,0,0,0,0,6,0,6,255,96,7,221,224,6,255,96,1,154,128,3,154,192,7 1011 DATA255,224,15,255,240,6,73,96,3,255,192,7,255,224,12,60,48,24,126,24,24 1012 DATA255,24,24,0,24,12,0,48,63,0,252,63,0,252,0,0,0

# Programs Programs Programs

# Mind Boggler

#### - for the Commodore 16

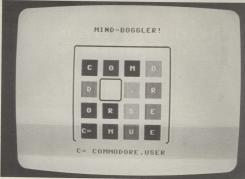
### by Jason Evans and Tony Martin

Jason and Tony have produced a colourful computer version of the old favourite letter shuffling game.

All you have to do is arrange the letters inside the square so that they read "C = COMMODRE USER" leaving the blank square in the bottom right-hand corner. Simple? Just try it.

Full instructions are supplied on-screen. Just type it in and RUN.

```
i SCNCLR
2 AO NZ#(1)="max
                                    MINICE MARKET
10 COLORO, 2: COLOR4, 2: VOL8
19 A NZ$(0)=" atal
20 DIMN(3,3):DIMNZ$(15)
30 X=0:Y=0:C2$="":C3$=""
40 TP#="
                                                       " : S$=" | XIII | XIIII | XIII | XIII
 80 PRINT"
 105 PRINT" PROPORTION MIND-BOGGLER"
110 COLOR1,9,4:PRINT"#
                                                                            CONTROLS"
120 PRINT" MODDODDDD I
                                                              MOVE LEFT"
130 PRINT"XBBBBBBBBB P
                                                             MOVE RIGHT"
MOVE UP"
150 PRINT" XDDDDDDDDDD Z
                                                              MOVE DOWN"
SHIFT PIECES"
 170 PRINT"
                                PRESS RETURN TO START GAME"
171 PRINT" MN WRITTEN BY TONY MARTIN & JASON EVANS"
180 GETA#: IFASC (A$) <>13THEN180
190 NZ$(0)=" ==
                                     XIIIIII
200 NZ$(1)="##
210 NZ$(2)="MS XIIII C XIIII
220 NZ$(3)="A#
                                   MINING MINING
230 NZ$(4)="##
                                   MERCH M MERCH
                                   MININ M MININ
240 NZ$(5)="88
250 NZ$(6)="=#
                                    XIIII O XIIII
                                   MINNE D MINNE
 260 NZ#(7)="##
                                   MININI O MININ
270 NZ$(8)="38
280 NZ$(9)="R3 WHILE WILLIAM
 290 NZ$(10)="54 XIIII E XIIII
 300 NZ$(11)="%% XIIIIII.
310 NZ$(12)="100
                                     XIIIIII U XIIIIII
  320 NZ$(13)="III
                                       MININE S MININE
 330 NZ$(14)="38
                                       MINNE MINN
 340 NZ$(15)="##
                                        MININE MININE
 350 FORI=0T03:FORJ=0T03:N(I,J)=I*4+J:NEXTJ,I
 360 PRINT" TODODDDDDDDDDDDDMIND-BOGGLER!": GOSUBSSO
365 PRINT" PRODE
                                           C= COMMODORE.USER"
370 X1=0:Y1=0:X=0:Y=0:Z=20+INT(RND(0)*25)
 380 FORJ=1TDZ: X=INT(RND(0)*4): GDSUB620: Y=INT(RND(0)*4): GDSUB620: NEXT
390 COLOR1,3,3:PRINTCD#; CR#; " ##"; C2#; C3#; CS#; "#": X=0: Y=0
400 GETA$: IFA$<>" "ANDA$<>"P"ANDA$<>"I"ANDA$<>"Q"ANDA$<>"Z"THEN400
410 IFA$=" "AND(X1=XDRY1=Y)THENGDSUB620:GBTD400
```



- 420 PRINTCD\$; CR\$; " 101"; C2\$; C3\$; CX\$ 430 IFA\$<>" "THENSOUND1,400,7
- 440 IFA\$="P"THENX=X+1:C2\$=C2\$+"#BBBBF":IFX>3THENX=0:C2\$=""
  - 450 IFA#<>"I"THEN480 460 X=X-1:IFX>=OTHENC2\$=LEFT\$(C2\$, X\*4):GDTD520
- 470 X=3:C2\$="########## :GOTO520
- 480 IFA#<>"Q"THEN510
- 490 Y=Y-1: IFY>=0THENC3\$=LEFT\$(C3\$, Y\*4):60T0520
- 510 IFA\$="Z"THENY=Y+1:C3\$=C3\$+" MNNN":IFY>3THENY=0:C3\$=""
- 520 COLOR1,3,3:PRINTCD#; CR#; "XM"; C2#; C3#; CS# 530 GOT0400
- 540 END 550 COLOR1,1:PRINTCD#; CR#; " /"; TP#; " / WHT : S#;
- 560 PRINTCD#; CR#; "N"; S#; " \"; TP#; "";
- 570 PRINTCDS; "MANNAT";
- 580 FORI=OTO3:PRINTCR\$;"DDF";:FORJ=OTO3 590 PRINT":TT"; NZ\$(I\*4+J); " ";:N(I,J)=I\*4+J
- 600 NEXTJ:PRINT:PRINT:PRINT:PRINT:NEXTI
- 610 RETURN
- 620 IFX1=XANDY1=YTHENRETURN
- 630 IFY<Y1THENFORI=Y1-1TDYSTEP-1:N(I+1,X)=N(I,X):GDSUB6B0:Y1=Y:NEXT 640 IFY>Y1THENFORI=Y1+1TOY:N(I-1,X)=N(I,X):GOSUB690:NEXT:Y1=Y:RETURN
- 650 IFX<X1THENFORI=X1-1TOXSTEP-1:N(Y,I+1)=N(Y,I):GOSUB710:NEXT:X1=X:RETURN
- 660 IFX>X1THENFORI=X1+1TOX:N(Y,I-1)=N(Y,I):GOSUB720:NEXT:X1=X:RETURN 670 PRINTBD#; BR#; NZ#(0):COLOR1,1:RETURN
- 680 Z\$=BD\$:BD\$=LEFT\$(BD\$, I\*4+7):GOTO700
- 690 Z#=BD#: BD#=BD#+" Malain
- 700 SDUND1,1000-5\*I,2:50SUB670:PRINTZ#;BR#;NZ#(N(I,X)):RETURN
- 710 Z\$=BR\$:BR\$=LEFT\$(BR\$, I\*4+12):G0T0730 720 Z#=BR#: BR#=BR#+"}
  - 730 SOUND1,970+5\*I,2:GOSUB670:PRINTBD#;Z#;NZ#(N(Y,I)):RETURN

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Ever tried making a background, using Basic? It's pretty tricky. So Jim's come to the rescue with a technique called Inverted Video. There's also a typein game to show you how

### by Jim Butterfield

Those of us who've played around with video effects on the Commodore 64 know that "plain" video involves one backours. In other words, we can choose to print green, red, and yellow on a white and print, say, white on a multicoloured background. But we can get this effect easily by using a trick. Here's the objective: we want to make an

and white (ice). We don't want the bug to change colour as it passes these areas; it must stay black. Yet the 64 seems to be set up to work the

other way: the foreground colour may but the background must be one solid col-

There are many special features that we could call into play to get around this "solid background" problem, of course, it's attractive for many uses and too little used by most programmers. Sprites may be placed anywhere on the screen, over existing patterns, giving the "colour over colour" effect. We could even go into a split screen technique to do multiple backdo the job.

But we can achieve the effect without calling in special features. To invert the ing - no, don't stand on your head.

#### Upside-down

When I was a small child, I used to think that stars were tiny holes in the black curtain that covered the sky at night; in other words, they were chinks of light shining through. I couldn't tell the difference between a white source set against a black ing through a black covering foreground.

That's the technique we'll use here. Since we have one background colour and flip them over so that we have one "foreground colour" against a mixture of many in reversed characters, of course, to switch background and foreground, but that's no

Let's try a simple example. We want a white letter A to move over a multicoloured background. Here goes:

100 PRINT CHR\$(144); CHR\$(147) 110 POKE 53281,1

This clears the screen (147) and sets the cursor to black (144).

120 FOR J = 0 TO 39 130 POKE 1024 + J,160 140 POKE 55296 + J,RND(1)\*14+2

150 NEXT I

We poke reverse spaces (160) to the top line of the screen, and put random colours that we need reverse spaces; ordinary spaces would just show the background

160 FOR J = 0 TO 38 170 POKE 1024+J,160 180 POKE 1025 + J,129 190 FOR K = 1 TO 100 200 NEXT K.J

These are the final lines of the program. the top line of the screen, left to right. The screen code for A is a value of 1, but we add 128 to get a value of 129; that's a



Paint the house completely before returning to the garage

```
100 PRINT "[CLS](CD]HOUSEPAINTER(2SPC)-[2SPC]JIM BUTTERFIELD"
140 PRINT "AN AREA .. SO DON'T PAINT YOURSELF
130 FRIH TINTO A COMMEN.

JAG PRINT TISSCHOOL HAW FIVE MINUTES (SPC100-LEAVE THE
170 FRINT "PAINT SKARD IN THE RED SHED MEN
170 FRINT "PAINT SKARD IN THE RED SHED MEN
170 FRINT "TO LESS HED TO CAPPLIFACE ANY KEY TO GO.
200 DATA 3.0, 2.4, 0, 30

200 DATA 3.0, 2.4, 0, 30

201 DATA 3.0, 2.4, 0, 30
210 DATA 7,10,20,10,30
220 DATA 7,8,9,15,18
230 DATA 3,15,17,13,15
300 PRINT CHR#(159);CHR#(147);"WAIT";CHR#(142);CHR#(8);POXE 53281,1
338 READ C: IF C:0 GOTO 400
348 READ V1, V2, H1, H2
358 FOR J=V1*48 TO V2*48 STEP 48
```

380 NEXT X. 400 FOR J=50+4 TO 50+999:POKE J,160:NEXT J

418 FOR J=C8 TO C8+999 428 IF (PEEK (J) AND 15) = 7 THEN N=N+1

440 TI#="0000000"

460 POKE VØ\*40+HØ+50,160 488 V8=V:H8=H

500 IF TI#>"000300" GOTO 680

520 GET K#:K1=ASC (K#+CHR# (B))

590 V=V0+V1:H=H0+H

600 P-C0+V+40+H: IF P-P9 GOTO 490 610 C-PEEK (P) AND 15 620 IF C<>7 AND C<>2 GOTO 490

650 IF CO2 OR NOW GOTD 460

680 PRINT " YOU MISSED"; STR#(N); " SOUARES"

Housepainter Program

reversed-A. As we move the A to its new

Now - we know that we're moving a ferent, random, colour as we print it. But gram working, we see a white A moving

Because we're really seeing the white our moving across a multi-colour back-

#### Paint your house

We'll use this principle to write a short program called Housepainter. It's part

Here's your chance to do some handy-By the way: it is possible, although you

study how it draws the house by means of a

Note that the characters showing the time in the upper left hand part of the screen seem normal, but are really in colour peeking through. Similarly, the - are really background.

That's how the white brush can move inside a red shed and across a yellow house: it's not magic, it's in-

# Six of the bests

# Latest utilities for the 64 and 16

## by Ken McMahon

There's no stopping them, software houses are determined to make you do more with your Commodore micro. The 16 has just spawned its first wordprocessor and a music program. For the 64, there's Activity Centre, a package for star gazers, a typing tutor and yet another extended Basic. What more do you want?

#### Music Master for the 16

Music Master, from Supersoft, enables keyboard, but record and edit them. The lower portion of the main scree

displays a replica of a piano keyboard labelled with the corresponding key on the C16. When a key is pressed the note sounds and a blob appears on the relevant is also displayed alongside the relevant

As well as changing the octave it is also possible to vary the envelope of the tone This affects the final form of the tone and makes it possible to produce for example a violin or flute type sound.

voice indicator.

Unlike the Commodore 64, the 16's sound chip doesn't have an envelope Master's software. This means it's not as versatile as it might be. But to be honest I was surprised to find it at all

Recording and editing is done on the aptly titled music screen. Here again we half of the screen is a sort of scrolling stave on which the notes are recorded as you play them. There are two channels which can be recorded separately, then played back simultaneously.

There are a number of editing functions which enable you to alter the final product in much the same way you would alter text with a word processor. Blocks of notes can be replicated, making it easier to record music with repeats, or set up drum sequences.

The transpose command raises or lowers all the notes in a particular block a semitone at a time. You can produce some interesting effects using the bounce command. This copies a piece of music from one channel to another. Having done this you can make alterations to the second channel, then play the two back in unison. In case you need some help to get the

creative juices flowing there are ten builtin backing rhythms, one of which can be user defined. You could use these for example to provide a drum backing. The to beat in time with the backing. There



the on-screen keyboard on Music Master corresponds with two rows of keys on the C-16

Once you've created your masterpiece it in your own programs. To help you on your way the manual includes two programs to read and play Music Master

Given the paucity of the C16's sound capabilities, compared with the 64, it's a tribute to programmer Nick Higham that he's managed to produce such an excellent synth program.

Music Master (C16)

 Supersoft Winchester House

Wealdstone, Middx 01-861 1166 Price: £12.95 (tape)

£14.95 (disk)

#### **Extended Basics**

I'll be honest about extended Basics, I've never actually used one; Simon is a total stranger to me. Having messed around with MCT Basic, from Micro Component Trading, for the last couple of What MCT Basic does is to upgrade the

didn't seem to be any easy way around this 64's paltry Basic V2.1 to the superior

It's just not possible to include all the

extra functions and commands that MCT Basic provides, so I'll concentrate on a few of the more useful ones.

The most infuriating thing about the 64's Basic is that it provides no easy usual text mode through to multicolour hires including a mixture of both on one advantage of the graphic commands dram, box, circle, and paint which need no

Game fiends can take advantage of the sound can be accessed from Basic using the Sound command. As on the 16, this has

MCT Basic also includes a number of displays line numbers as they are executed. enabling you to trace the program flow. Existing Basic commands like Print, If

Then, Restore, and the string functions are extended, making them a good deal more powerful.

I could go on for ever: joystick commands, disc commands, a machine code monitor. MCT Basic also comes with a free program, Screen Painter. Written in MCT Basic, it's a screen drawing and

Not having used other extended Basics I couldn't honestly say MCT's is the best, but it's hard to see how it could be improved upon. If nothing else it provides compatibility with C16 and Plus4 software, so you could for example type in C16 listings from the program section in Commodore User. It's unlikely however that C16 commercial software would run as it's likely to contain machine code.

At £10.95 this is one of the cheapest extended Basics worth the name and excellent value for money.

MCT Basic (CAA) Micro Component Trading Group House Fishers Lane Norwich, Norfolk 0603 633005 • Price: £10.95 (tape)

Text is formatted on the screen as you type - the WYSIWYG method as it is

The width of your page is thankfully not text scrolls to the left as you type. Similarly page length can be defined to a

Due to the limitations of the C16's memory you can't actually have a page of maximum dimensions. About 8K is left for text storage which will hold about a thousand words or two A4 sized pages. to produce lengthy documents by saving

Text editing is carried out in 'control mode' by pressing the shift and control insert, delete, move, copy, erase, and reformat text. A search facility is also available, which pinpoints a particular

text. Other standard functions such as

DEL reformats a paragraph.

Some of the functions are tedious to use: text has to be copied a line at a time each one involving about four separate key depressions. In many cases it might be quicker to type it out again

Those objections aside, Word Perfect is a neat little program. At the bargain price of £13.95 you'd expect it to be a little rough around the edges.

 Word Perfect (C16) Supersoft Winchester House Canning Road Wealdstone, Middx 01-861 1166 Price: £12.95 (tape)

### £14.95 (disk) Type it right

Precision Software claim that their Super Type keyboard trainer, for the 64, will have you touch-typing inside ten hours. That strikes me as being a touch optimistic, but there's no doubt that the

Apart from the software, Super Type can stand upright on your desk and a set of purposes, by sticking them over your 64's keys you can't cheat by peeking. Secondly each key is colour coded, making the

The manual consists of exercises designed to build up your skill at using by the relevant software section which is

chosen from a menu. The first menu option is letters asl: and having selected this you type in the exercise from the manual. To begin with this is fairly simple key repetition - aaa are indicated by arrows and the total performance you can move onto words and

When the whole exercise is completed you get a progress report that shows how many errors you made, your speed in words per minute, and the computer's assessment of your performance which tells the keys you need to practice and Review exercises are included at key

points to test everything learned in preceding sections. Finally, there are four on longer pieces of text Super Type is a simple idea and one well

you everything, there's nothing for example on text layout or tabulation, but you can get that kind of thing from other

Probably its biggest plus is that it makes typing fun to learn. There's no greater incentive than watching your proficiency improve over a short space of time. Whilst I would dispute



### More words for the 16

Supersoft has just released the first word Word Perfect is a simple word processor, cated techniques of more expensive packages.

Search and Replace and margin justification. But in a package of this price and scope you wouldn't really expect to find

One criticism I would make is that Word Perfect isn't the most user friendly WP I've ever seen. The single key commands aren't always the most obvious ones, i.e.

Precision's ten hour claim, I think a reasonable standard of touch typing could be achieved in a short while.

Super Type (C64)
Precision Software
6 Park Terrace
Worcester Park
Surrey
01-330 7166
Price: £19,95 (tape)

voices is utilised. The method of input is also tedious. Each note must be defined in terms of length and pitch. There is no facility for editing so if you input one duff note you presumably have to start again

from scratch.

Having designed each part of your page you can save it, then put them all together to create the whole design which can be output to a printer (not Epson!). Inevitably the mediocre parts fail to create an inter-

is natively, if you're interested in a particular section of the sky, you can input your own bearing in degrees.

Star Seeker will then plot the stars that

Star Seeker will then plot the stars that are visible at the time and place you specified. There are a number of options to elicit further information. A list of the major constellations can be obtained, or the program can draw a constellation map connecting the individual stars, as they

move across the sky.

Positioning a cursor over a star and pressing the space bar gives you detailed information on it such as its position, magnitude, distance from earth, et. If you tire of looking at one particular view, the date, time and direction parameters can be altered from within the program.

Finally, if you want to nip outside and take a look at the real thing, you can produce a printout providing you have a Commodore printer. It's a shame this can't be done on an Epson as it's one of the most

useful functions.

An additional program, Solar System, is included which provides information on included which provides information to the same way as Satt Seeker, Regretably, my copy had a bug which caused it to hang up whenever I looked at the moon, but I was assured by a Mirrorsoft spokeswoman that the problem has now been rectified. Apart from one or two gaffs the minant of the provided of the same part of the provided of the provided provided the provided that the problem has now been rectified. Apart from one or two gaffs the minant of the provided that the provided has not been called the provided that the provided has not been considered to the provided has not



Above: example of the drawing utility on the Activity Centre package Right: The Star seeker package — for Sky at Night buffs

#### Keep your 64 active

The idea behind Activity Centre, from Argus Press Software, is to enable you to design pages containing text, artwork, and animated characters, accompanied by music: "Write, draw, animate, compose", as it savs in the blurb.

On loading you're presented with the main menu; from this it is possible to select any of the draw, animate or music options as well as redefine the 'ink' colours. Once a selection is made, the relevant software is loaded from disk and is again operated via its own sub-menu.

Taking the 'activities' in chronological order, draw enables you to create freehand designs on the 64's hi-res screen in three colours. The usual functions such as circle, box, line and copy are available. Fill, however, will only paint rectangular areas, not circles or irregular shapes. Moving to animation, this section allows Moving to animation, this section allows

you to define two sprites (yes, only two!)
and animate them either separately or as
one moving figure. That's really about all
the description it warrants.

As everyone knows the 64 has excellent

As everyone knows the 64 has excellent sprite facilities, but these are not exploited to the full here. In fact, what's included is so paltry it doesn't even merit the descrip-

Sadly, the same goes for music. Although you get a choice of several instruments only one of the 64's three Activity Centre covers a lot of ground, none of it well. Better to invest in something less ambitious that does the job properly.

Activity Centre (C64)
 Argus Press Software
 Liberty House
 222 Regent Street
 London W1R 7DB
 01-734 6470

# Price: £14.95 (disk only) Heavens above

Mirrorsoft's **Star Seeker**, for the 64, is a sort of astronomical database with charts. Basically, it will plot a map of the night sky from any position on the earth on any particular date.

Initially the program asks you to input the location on earth from which you want to stargaze. A table of longitudes and latitudes of major cities is thoughtfully provided in the instructions.

provided in the instructions.

Next you're asked to input the date and time, only dates from 1900 to 2100 are acceptable, but two centuries seems to me

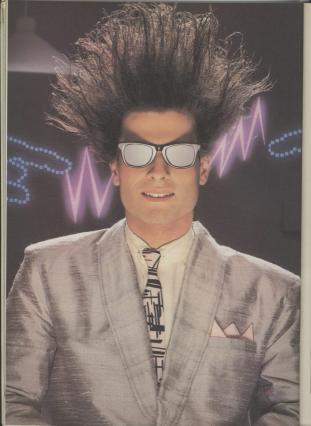
to be a fair span.

You are then given the option to view
the heavens in any of the four compass
directions or directly overhead. Alter-



If I were to fault Star Seeker it would be for the time it takes to plot the maps, it takes cons! Whilst I can't see it having a wide appeal, Star Seeker would undoubtedly be a useful accessory for the budding astronomer.

Star Seeker (C64)
 Mirrorsott
Mirror Group Newspapers
Holborn Circus
London EC1
01-822 3947
 Price: £9,95 (tape)
£10,95 (disk)



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# **Better Basic?** An overview of Basic on the

Commodore 128 by David Brooks

At last, the Commodore 128 is all set to appear on the UK High Street, offering not just 64 compatibility but a whole lot more. Programmers should be especially attracted by the 128's Basic. Claimed to be the best and most comprehensive version Commodore has ever released, it looks like putting the plodding 64's Basic to shame.

128 Basic offers.

Basic 7.0 and it's loaded with fun once you've become familiar probably its weakest feature. It's gramming on the 128. pretty crude, and since it has no graphics and sounds, it restricts two of the 64's best features. Silly isn't it?

that. It has vastly improved com-

You already know that you can mands in all areas of programm- PRINT and INPUT that are the superior specification of the use the 128 just like a Com- ing and it includes a whole new common to all implementations modore 64. But don't let that set of sophisticated graphics and of Basic. But the many versions

In this article I'll often be com-This new version is called the 64. Don't worry if you have may appear simpler at first useful features that will make ience, I hope this article will in- mands, but, in fact, the lack of with it. Those of you who've us- language and whet you appetite should be. ed a 64 know that the Basic is for getting to grips with pro-

New Basic for Old

The 128's Basic changes all language. There are certain off worse, probably because articles, and books about the 64 tat. It has vastly improved com- fundamental concepts like Commodore wanted to protect took the reasonable approach of

of Basic differ significantly in

the types and number of comparing the 128's Basic to that of mands they contain. 64 Basic because there are fewer comportant features of any Basic programming harder than it

The PET/CBM machines that were already widely popular when the 64 was born, had Basic verion 4.0 that was much more sophisticated than the Basic 2.0 Basic" is not just a single decision meant that the 64 came

More recently, the Plus/4 and Basic version 3.5 that offered graphics and sound capability

Commodore, of course, knew Basic and various Basic expanders quickly appeared. became accepted as standard result, most published programs,

these versions and extensions SYS call.

the entire 64 language), all the The 128 opens an entirely new

Although the 128 is truly a it can operate in three distinct • Initialization commands: hardware modes, its graphics COLOR defines a range of 16 7.0 doesn't magically produce that in the 64, these capabilities

The commands are taken from a preliminary version of the

ters, and one or more usercases, of course, the exact com-

the capabilities of the Basic and automatic line colours.

relying on its resident language in machine language monitor complete without some sprite. More sophisticated versions of

4.0, and most of the sound and the average Basic programmer. graphics commands of the Com- Many capabilities that required modore Basic expanders and an extended Basic or other com-BASIC 3.5, adapted for the in- mercial software on the 64 are creased capabilities of 64/128 now available with built-in Basic commands can be divided into

No Source 40-column background graphic-mode multicolour 1

character colour

GRAPHIC puts the 128 into No Mode

40-column normal text high-resolution graphics high-resolution graphics. split screen

multicolour graphics multicolour graphics, split

80-column text mapped area in memory that can format with modes 0 or 5. You Device (SID). You won't be able can specify the location of the to replace the sophisticated split screen modes.

the physical text screen, can set TEMPO and VOLume, command doesn't discuss the parameters. Then you can conbe done within this window area. Basic with the SOUND ELSE syntax with BEGIN language but make programming . Drawing Commands: command. BOX, CIRCLE, and DRAW mand in 64 Basic is LIST! With allow you to construct geometric 128 Basic, you can have auto- shapes. LOCATE gives the posimatic line numbering with tion of the cursor. You can con- A major improvement in 128

with CLR. The 128 has a built- graphics language would be commands in 64 Basic.

program that can be accessed control commands. First of all, Basic commonly include several So it's three cheers for the 128 from Basic with the MONITOR you can define a sprite with other types of branching comwhich has finally brought command. RREG defines SPRDEF. This command works mands that help you develop betregister values on return from a like a sprite definition sub- ter programming habits, along

routine, with some prompted in- the lines of what's known as puts to assign the sprite number, structured programming. Sprite colours are assigned no GOTO statements at all, as

with SPRCOLOR and other at- the idea is to handle all possible tributes are assigned with program branches as they occur, SPRITE. The sprite image can without having to jump to be saved by transferring its dot another place in the code. The pattern to a string variable. The related commands very close to this ideal.

SSHAPE/GSHAPE save and But why bother? Because

retrieve rectangular areas of structured programs are easier to multcolour or high-resolution read and understand, and a variescreens using Basic string ty of branching commands SION and sprite motion is con- natural way

trolled with MOVSPR. So, in addition to the IF There are several new Basic THEN command for making functions in 128 Basic that deal branching decisions, 128 Basic includes IF

Function Description determines which sprites have collided since the returns the current position or colour of the pixel RGR returns the current graphic mode RSPCOLOR **BWINDOWN** returns information about the current display

first line of text in either of the music composing programs because it simply extends the available for the 64, but it is now capabilities of IF . . . THEN to

screens. SCNCLR clears the You can define the SID's restricted to a single line of Basic screen in a specified graphics or attack-decay-sustain-release (AD- code, but the 128 allows 160 text mode. The WINDOW com- SR) parameters with the characters in a line instead of the Although the definition of this and you can also set FILTER long to fit on a single line can be

AUTO while you're writing trol the WIDTH of a line as you Basic is its greater ability to con- 190 BEND:ELSE BEGIN your program, HELP with syn- draw it and PAINT enclosed trol the way the program flows. 200 A=1

tax errors while you're debugg- areas with your choice of It's often the case that programs 210 B=2 RENUMBERing when you A related command, CHAR, from beginning to end, but must 290 BEND works in either text or graphics take one of possibly several bran-You can trace the operation of mode. It lets you display a string ches depending on specified con- Basic, the looping instruction is our program with the of characters at any specified ditions. The GOTO, GOSUB, the FOR ... NEXT command. ON . . . GOTO/GOSUB, and IF

ELSE, BEGIN BEND, and

The most obvious of these is IF ... THEN ... ELSE, The SCALE command lets very easy to include sound ef- include all the consequences of you alter the scaling of x and y fects and music in your own an either/or decision in one Basic

Sets of instructions that are too

100 If X < THEN BEGIN

110 A = 2 120 B = 3

You can clear program variables Sprite Commands: No . . . THEN are examples of such of times the loop is to be per-

vance. With more sophisticated keys with KEY. You can also should solve the problem, but lets you format a disk, BOOT operations inside a loop until a

specified criterion has been met. The significance of this takes leaving a FOR . . . NEXT loop before it's finished (perhaps with loop) is very bad programming practice and can eventually cause

your program to crash. or DO ... WHILE command allows you to perform a set of operations when you don't know

the problems of incomplete FOR Another welcome addition to 128 Basic is the TRAP com-With TRAP, you can plan for certain types of errors and res-

do in 64 Basic is to wait for a key

10 GET ZS: IF ZS = "" THEN

commands, you could perform build in program pauses without writing empty FOR . . . NEXT

a statement like IF . . . THEN In addition to all the 64 func tions and the graphics-related Basic also includes other new

you can still use the 1541 with loads and executes a program the 128, even in '128 mode'.

contain their own operating systems, you'd expect the 128's the 64's. They are, but the syntax is easier to deal with. So you get DLOAD, DSAVE, DOPEN functions defined above, C128 and DVERIFY which don't need a device number to indicate they're disk commands.

you use PRINT to append data to the end of a file, whilst CON-CAT merges two files. BLOAD/BSAVE loads and saves a binary file into any memory makes available disk space that's been allocated to improperly

So the 128's Basic Version 7.0 is a combination of the best features of existing Basics, and has already prompted the view that it's what 64 Basic should have been all

What really matters is that 128 owners now have a complete Basic that lets them use their machine's power to the full without having to buy expensive Basic extensions. And that should make your programming not only easier and more fun, but actually

Function Description DEC

returns decimal value of hex number. returns string describing error condition. returns position of one string in another. returns position of joystick and fire button

returns value of game-paddle potentiometer.

Panel Two

Well, now you can use the

single GETKEY command to The 64 has never quite made it the directory without scrubbing

Remember the disk wedge prokey to be pressed. You can pro- because the 1541 disk drive is so command on the 128 takes care



# **GO-FASTER DISK**

# THE TRITON QUICK DISK REVIEWED by Karl Dallas

The 1541 has endured more than its fair share of criticism for slow speed and dubtious reliability. That may not bother the home user too much, but its rather inflated price will. So the Triton Quick Disk at £119.95, looks like being a pretty good bargain. It claims to load and save quicker, and has a built-in tape to disk

The drive itself, and its 2.8 inch format, was originated by the Japanese Mitsumi company and is now imported by UK firm, Radofin, who is having them manufactured under licence in Hong Kong. So let's have a look as it.

#### Exterior looks

The Quick Disk looks a bit like a telephone answering machine, albeit colour-co-ordinated to the 64. It's squarer but less bulky than the 1541 and has a front-loading mechanism, with a perspex lid, for inserting disks. Round the front, there's a power switch, but there's no sockets at the back.

That's because an interface box is provided that plugs into the user port—the connection is duplicated on the box (apparently versions are also available for MSX and Spectrum machines). The box also has a toggle switch to number the drive as I or 2 when two units are used. The drive also needs to be connected to the mains.

The disks themselves have a rigid plastic casing but, unlike the 3.5 inch variety, there's no sliding cover to protect the slot where the head meets the disk. They're still much studier than 5.25 inch disks. Disks aren't double-sided but 'flip-over', so you get up to 50K on one side and (flip it over) 50K on the other.

#### owering u

Not surprisingly, you turn on the Quick Disk before the computer and then type SYS 327678, which produces the slightly cryptic message: \*\*\* C64 T-DOS V1.0

If you have more than one drive attached (at £120 each, why not?), you'll need to specify which is to be the 'logged-or' drive. This can be changed at any time with a simple direct command. The Quick Disk uses 1 and 2 as drive designators rather than the 1541's 0 and 1 — slightly confusing.

Before you can use a disk, it must be formatted, using the @FORMAT command. By the way, all Quick Disk commands are preceded by the '@' symbol. The disk is formatted into 20 sectors of 2560 bytes each. If a program



just slips into a new sector, the rest of that sector's space is wasted, so careful planning is necessary to make the most of the limited space.

The disk commands

Most of the commands are self-explanatory, and you'll find them listed in the table. But commands like LOAD, SAVE and WRITE do have some more interesting and useful functions.

For example, the @DIR command

displays lots of useful information, not just file names and lengths (in bytes) but also whether they're Basic or machine-code (6 for M). You're also told how many bytes are left on each side of the disk. When WRITEing machine-code

programs, though, you must specify the start and end address. The execution address can also be specified, otherwise the system defaults to the start address. If you try SAVEing a file under a name that already exists, an error message warns you that the existing file will be erased if you proceed. Also, you can specify an offset address to prevent something already in memory being overwritten.

It's also possible to LOAD and SAVE data arrays without having to WRITE each element of the array disk, one at a time. The array command ASAVE is very powerful but limited to eight characters; each array can be identified with the usual suffixes indicating string or integer. You can also add REM-type comments to jog your memory later.

Unfortunately, there is no random access facility, so any manipulations, amendments etc., must be done in memory. This means the size of data files is limited by the amount of memory in the machine, after the relevant program has already been LOADed.

Finally, you can COPY files and entire disks, but you must have two disk drives. Funnily enough, the MSX and Spectrum systems do this with one disk — why not the 642 alternatives to the 1541, simply because they don't use disks. Enter the Triton Quick Disk, with it's 2.8 inch disk format. It may be non-standard but, at £119.95, it sounds like being a bargain for your Commodore 64 system.

The lack of random access may hinder the Quick Disk as a business tool, but it's certainly a more sensible medium than 'waferdrives' and a good deal faster than the 1541 at a fraction of the price. In short, I liked

Next month, we'll be reviewing a true 1541-compatible disk drive, the Americanbuilt Enhancer 2000.



The Quick Disk certainly lives up to its name. It took just seven seconds to load an 18K program, compared with 30 seconds for the 1541 and three minutes for the

But loading commercial software presents a problem. Despite the @CASSCOPY command, I couldn't find a single game cassette that would copy on to these days, the utility will become rather

Of course, that's not the fault of the hardware: @CASSCOPY happily copied anything that was unprotected. Having block of code is verified automatically, with appropriate messages displayed on

The Triton Quick Disk is a serious storage medium whose speed leaves cassettes and even the 1541 standing. Despite the copying facility, those of you who want to copy your stock of games tapes onto disks

That problem will be solved only if software houses decide to release their products on the new 2.8 inch disk. So far. made from neither business nor games software houses. There may be hope, though, since the device is also available for MSX and the Spectrum

Command

 Triton Quick Disk for the Commodore 64 • Radafin Electronics UK Ltd **Hyde House** The Hyde London NW9 6LG 01-025 0044 • Price £119.95 very good value

@D1/D2	to select a different disk drive,
@ACOPY	one is fitted format disk and copy disk to d
	system only)
@ASAVE"array-comment"	to SAVE an array
@CASSCOPY	copy from cassette to disk
@COPY	copy individual files from disk
	system only)
@DIR	obtain disk directory
@FORMAT	to format a disk

Function

@KILL"filename"  @LOAD"program"	to delete a program or data file from disk to LOAD a Basic or machine-code program of
	array
@QUIT @RUN"program"	to return to normal Basic to LOAD a Basic or machine-code program

to SAVE a Basic program @SAVE"program @WRITE"filename" to SAVE a machine-code program or data file

if more than

disk (twin-QD

to disk (twin-QD



All proceeds to The Bob Geldof Band-Aid Ethiopian Appeal Fund.



# MOUSE IN THE HOUSE

# Connexions Magic Mouse reviewed

by Chris Durham

A little while ago, the sight of a mouse next to your computer would have sent you running for the mouse-trap and the cheddar. Now computer 'mice' are all the

rage. And the Commodore 64 has finally got one, a mechanical rodent that helps you design sprites and graphics. But at £59.95, is it good value?

The computer 'mouse' was originally hailed as the thing that would finally allow the busy executive to make full use of the computer. No longer would he have to learn keyboard skills to get the most from his machine. By moving a mechanical device around his desk, he would make a small symbol move about on the screen.

symbol indive about on the screen.

By pressing a single button when the symbol was in the right space on the screen he could file a letter, read a file or operate a spreadsheet. The word 'icon' was used to describe the small symbol on the screen, commonly a pointing finger.

The mouse may have started life as an executive toy, but they're now appearing in various forms for use on home computers; but just how useful are they?

Magic Mouse costs £59.95, is made by

mutation from the constitution of the constitu

#### Mousey looks

icons in your own program.

The mouse is nicely hand-sized and has three buttons on the front edge coloured red, blue and yellow. The first two are for selecting the various options, while the yellow button is reserved for re-starting programs. The unit is well packed for transit and the first thing that you have to do is to put the rubber ball into the base of the unit and then calibrate it.

The calibration is to ensure that the icon covers the whole screen without disappearing off the right-hand side or bottom edge. There are two small screws underneath allowing adjustments to be carried out. This really only needs to be done once.

#### The software

The software on both tape and disk is identical, except that with the tape you have to load each program separately; with the disk it is all done from a menu, selected using the mouse, naturally! Both the tape and the disk use fast-loading systems, which has to be an advantage (provided your equipment can cope with the faster

The hi-res graphics program is similar to those which come with graphics tablets. You select your option from a menu on one page and then swop to the graphics page to

do your drawing.

Most of the usual commands are there, you can change brush sizes, dump your creations to disk or printer and select any

a try one command I felt was locking was a try one command I felt was locking was a try one of the command I felt was locking was a try one of the command I felt was locking was the command try of the command I felt was the command try of the command I felt was the command I felt was locked to the command I felt was true to command; which would also delete what was undermeable the error if it crossed anything already on the screen. Apart from that it was quite easy to use.

Although the sprite designer and icon designer programs are entirely separate, they are virtually identical in operation. Both use a grid on the left hand side of the screen for designing the object, the top right hand part of the screen for displaying the object as it will appear on screen and the bottom right area for the 'command' keys.

The icon, which is the standard pointing finger, is moved to the grid and the finger is then made to point at the required pixel position. The red button turns the pixel on while the blue one turns it off. Once you have designed your object you move the icon to the 'command' keys which appear as soon as the icon leaves the grid.

By pointing to the required key and pressing the red button you select the function. The functions include saving the objects to disk, changing the colours, expanding X and Y sizes, erasing objects, etc. etc. Both programs work well, but there were occasions when two or three tries were necessary to point to a particular pixel. This was not a problem when it came to the command keys since anywhere within the boundary of the law resemble.

the boundary of the key was valid.

The final pilce of software sets up an icon for use in your own programs. It loads the machine code routine to create the icon and move it even without your program present. Your program can either be loaded afterwards or can themselves load ead afterwards or can themselves load to be controlled to the position of the con at any time. This was your program of the position of the con at any time. This was your own icon and the controlled to create your own icons and use those invested if you window.

#### Using your mou:

But one of the first things you discover once you start using the mouse is the country of the country of the country of the country of the country similar in size to a piece of Ad apper. Now most home computer users, and I am no exception, do not have unlimited space for all their computer users, and I am no exception, do not have unlimited space for all their computer test, and the computer their computer their computer their computer their country of the country of the country of their countr

werage computer table, trolley or bureau!

My particular desk was just not quite arge enough, with the result that I had to keep picking the mouse up and moving it

The second problem I had was that the surface is polished (or was once upon a time); unless I kept a fairly constant pressure on the mouse it would occasionally slip without moving the icon, thus reducing the movement I could get without having to pick it up.

I therefore tried it on a number of different surfaces. In every case there was a degree of slippage, even on vinyl. the ball was slightly loose and binding to a large area it made little or no dif ference, but when trying to position the

For example, moving the mouse a fraction had no effect, move it a little more and you wanted. And so it goes on - rather annoving. Maybe my review mouse was

Whatever the reason, when compared to this type of graphics drawing, it would come bottom of my personal preference. menu, this only allowed you to draw or

The 22 pages of instructions were quite adequate for using the mouse, although some parts only really became clear when necessary PEEKs and POKEs to enable

Short Basic programs are also included, one of which shows how to display the graphic drawings in your own programs.

ly necessary in such a small manual as this.



If you think about the history of mice function; rarely was it used for pixel acfor the Magic Mouse, one of identity.

something with it when you bought it. Yet there are applications which I have done better in the past without a mouse. To me. ly through a series of commands or menu selections; the fact that it also has rather a novelty value does no harm at all.

If a program like Commodore's Magic Desk were to be used with a mouse then OK, but personally I cannot see that it has

If you have a need for a menu-driven, for you, otherwise . . .?

At £59.95, Magic Mouse is not exactly cheap. I cannot think that anyone will buy one just for the software, since it is not ideally suited for this sort of application, Nevertheless, I am sure that the novelty value will appeal to a number of people who will be more interested in incorporating it into their own programs

The mouse's real future lies in the availability of software that will make it of real use; some has already been announced by the suppliers, such as Business Bonus, an accounts, spreadsheet and diary program. It is only by using a mouse for things that a mouse is best at, that they will really find a (mouse) hole for themselves in the home market.

- · Connexions Magic Mouse · SMC Supplies 11 Western Parade
  - Great North Boad Barnet, Herts EN5 1AD Tel: 01-441 1282
- Price £59.95 · Not really suited for drawing

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### More from Hampshire

Nick Hampshire is an old hand at writing books on the the machine worth looking at. Advanced Commodore 64 with how to introduce extended graphics commands to the 64's puny Basic. That's not to say the sound element has been ignored, some highly ambitious projects

As I said the bulk of the book is taken up with listings of machine-code routines which add another twenty seven commands to the 64's Basic. These take up over 9K of memory, a fair sized chunk, but them all in, you can skip any you don't think are going to be incredibly useful.



disk for a mere tenner. The initial assembly listings are for the 64's Basic, naming and tokenising them, it's therefore

themselves. These range from screen management routines which configure the various graphics modes, set up colours two and three dimensional plotting routines, some of which are very powerful indeed

All of these routines are in CBM assembler format. This means they contain the usual directives such as BYT and Artificial Intelligence is all the

half the book there's quite a bit more of interest. A chapter on the theory of high-resolution and moving 2-D shapes as well as how to design and plot realistic 3D images. Finally, on the graphics side, some hints and to incorporate graphics into

Although there is only one chapter on sound in the whole book, it's not the case that the subject has been given scant attention. There are two

The first shows you how to design an interface and software to connect a keyboard to your 64. This task I am assured can be small amount of electronics experience which excludes me. but it looks like fun.

If you don't have a soldering iron the second section might appeal more. This deals with how to incorporate music into games using interrupt driven

Unlike many so called advanced books around at the moment, Nick Hampshire's actually does contain some complicated techniques and I wouldn't therefore recommend it to the beginner. So don't bother with it unless you feel at least reasonably confident with machine-code. If you do then it's well worth a look.

Ken McMahon

- Advanced Commodore 64 Graphics and Sound By Nick
- Hampshire Collins Professional and Technical Books 8 Grafton Street,
- London W1X e £10.95 Definitely one for the advanced programmer

### Artificial brains

WOR so you shouldn't have too rage right now, although not much difficulty converting if many people know what it is and you're using a non-standard how far it's been developed. If there is a thinking, reasoning Although the extended computer out there, the boffins graphics section takes up over are keeping it pretty quiet - it's



and why you can run AI esting subject programs on the humble 64. I

began to disagree with him.

Hence, we start with intelligent deductions from your input games, in which Mr. O'Malley using set theory goes into the historical and Apart from that one practical details of chess, chapter, there is little else to

hardly examples of AL Basic programs to type in. About depth and the program the most interesting of these is a examples do little to rescue program which plots a path it. In fact the two most useful through a maze. Nim, a game programs in the book are a where you have to pick matches word processor and a from a pile, leaving your graphics utility, though quite opponent with the last one is sur- why these have been passed in its capacity to bore included Pm not altogether only by the brain numbing Life, sure.

To be fair to the author he has managed to introduce aspects of meant to enhance, not detract

From intelligent games we move onto more serious stuff. Bootstraps - programs which modify parts of themselves as they run, are illustrated with two

efinitely not the 64. Let's look stunningly boring programs which do indeed modify them-The author begins with an selves, but do little else of introduction to the concept of practical value. Natural Artificial Intelligence (AI) - Language processing (making what it is, how it can be used, the computer understand

This chapter contains a think it was at this point that I version of Eliza, Joseph Weizenbaum's famous program Each chapter consists of a brief which gives human like explanation of the topic under responses to phrases input by the discussion, and then attempts to user. There is also another good illustrate the concepts involved program which runs alone by means of Basic programs, similar lines, but draws logical

checkers (draughts to us Brits), recommend this book to me. Othello, and backgammon - The subject would be a lot more interesting if it had Following this there are three been dealt with in greater

Ken McMahon

- Artificial Intelligence Projects for the Commodore 64
- By T.J. O'Malley Tab Books Inc.
- A fairly dull, uninteresting book



"But all the same Harry."
"Anyway, the trainer recommends a bit of ducking and weaving. No problem, on the next page was a competition to win a Casio synthesiser.



# The Riteman C Plus printer reviewed by Bohdan Buciak

Following hard on the heels of last month's review of the Star SG-10C, comes the new Commodore-compatible printer from C-Itoh, the Riteman C Plus. Not only is it truely plugcompatible but it features a unique design. Looks apart, though, how did it perform? pressure selector on the left lifts and lowers the head for thick paper or for

Companies like Epson and Star used to Now they're muscling into the home computer market. Japanese printer giant, especially for the Commodore Vic. 64, 16 it's not exactly a budget model but it solves

There's the usual panel with buttons for clear perspex hood that helps to dampen noise when printing. Round the back, there's two DIN-type serial sockets, so you can link two computers. But there's no Centronics or RS232 port. That may cause problems if you eventually decide to upgrade to a non-Commodore computer

The most striking thing about the Riteman Two folding 'legs' prop up the lightweight printer about three inches above the desktop, allowing continuous paper to sit underneath, thereby saving considerable desk space.

Since the paper feeds through horizontally from the front, the tractor feeds downwards - odd but effective. One advantage of this is that thick paper and envelopes can be used since the rollers don't bend the paper. A print-head The Riteman prints bi-directionally at a nippy 105 characters per second, using a nine by six needle print matrix, which gives true descenders. Both friction and insert paper, the tractor feed clips feel rather flimsy. A simple lever toggles you back to friction feed.

The Riteman prints the complete Commodore graphics set and upper/lower case. Normal print is 80 characters per line. expanded to 40 per line by setting the DIP switches, located reasonably enough under

image graphic mode. Line spacing and

Unfortunately, the ribbon is similar to that rudimentary system used on Commodore's now-defunct 1515 model: a selfwith the print-head moving it along as it prints. It works well enough but looks rather makeshift

So let's plug it in and go. The Riteman and 2, and Plus mode, selectable by changtwo print in upper/lower case and in graphics mode. So you'd use them for program listings, printing graphic codes and Print quality is good since the machine uses its double-strike facility when it meets a graphic. All the codes are sharp and wellformed. The trade-off, though, is a loss of speed if your program contains lots of

Plus mode is used in conjunction with software such as wordprocessors, filing packages and spreadsheets — anything that involves printing our text. Setting a DIP witch gives and 80 or 132 column option — 132 columns being useful for condensing a large spreadsheet onto AF paper. Generally print quality is up to good dot matrix standards but falls short of nearA word of warning: there's so much software on the 64 that it wouldn't be possible to test the Riteman with all of them. The Riteman performed with everything we threw at is, with a couple of exceptions. So it's really up to you to get a comprehensive

#### Documentation

e've got a badly translated nly that, there's a large 'erseither inspire confidence. and setting up is handled because the description good. But the manual fails to impress with its descriptions of the various CHR\$ control codes and the example Basic programs.

Standard modes 1 and 2 codes are comprehensible but Plus mode causes real problems with its use of ESCape codes both in decimal and hex. You must work out for yourself that you must use the alphanumeric equivalent of the code given, and ference between Standard the way, the diference between Standard the way the diplement of the difference of the diplement of the distribution of the ditribution of the distribution of the difference of the ditribution of the distribution of the

#### Conclusions

It's difficult not to compare the Riteman with the Star SG10C (reviewed last month) which performed better in most respects, admittedly for £20 more. On the bright side, the Riteman is smaller, lighter and unusually well designed — and it's pretty quiet. But the print quality, documentation and generally filmsier feel make it that bit less sattractive.

Riteman C Plus printer
 C.Itch Electronics Ltd
 Beacon House
 26/28 Worple Road
 Wimbledon, London
 SW19 4EE
 Price \$240 + VAT

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#### **Good News For** EASY SCRIPT

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# Business

#### Triangle, Superscript-64 and Powerplan reviewed by Karl Dallas

New business packages for the Commodore 64 are piling into our offices thick and fast. This month we're looking at Triangle, an incredibly cheap integrated wordprocessor, spreadsheet and file manager, the new Powerplan spreadsheet and graphics program and the equally new 64 imple-

#### Integration on the cheap

The most important news about the incredibly inexpensive Triangle package from Argus is that, for once, here is somereally does allow you to work on a word-

ed opportunity there becomes only too

Each of the three modules is quite a respectable implementation. The wordprocessor allows up to 400 lines of text to be the next on printing, so an entire book

The spreadsheet is of medium size: 40

umns of differing widths (from 2 to 36

This means that a formula can refer to

than the WP software can handle,

The main function of the file manager is ters. There is a limit of 17 fields per

Searching on two fields is permitted

Switching from one program to the other sheet to WP 47 seconds, and from spread-



\*\*Tri-File\*\*

the area merged is wider than 39

The 14-page manual is remarkably clear easy to use, being amply supplied with Disk commands, like directory and for

All in all, this is a £20 package that is so cheap yet so useful that it's going to be hard to beat.

 Triangle · Argus Press Software Liberty House 222 Regent Street London W1R 7DR

Tel: 01-439 0666

# · Price: £19.95 (disk only) Superscript for the 64

After literally thousands of 64 users have package supplied with the 1541 disk drive, Commodore has allowed Precision to upgrade the package with the new Superscript 64, taking into account the imfor the Commodore 8000 and 700 series

In fact, this new version of Superscript is in many ways more powerful than either of the two business versions, and the C128 implementation is designed to sit alongside their Superbase file manager to provide just about the most powerful integrated package available for any machine - in-

Interestingly, Precision have decided to concentrate on developing the C128 ver-

The first big improvement that will be obvious to any user, whether they've had experience of Easyscript or not, is that the is possible to operate the program without constant reference to the excellent ringbound (but unindexed - shame!) manual

help screen at any level, if the mnemonics are not clear enough for you. The menu is accessed by pressing F1,

and each menu choice usually produces a stance, if F1 is pressed from the edit mode, the following menu appears along the top



GO ERASE PRINT DOCUMENT LAYOUT QUIT CALC FEATURE

You can move the menu cursor along to RETURN, or you can just press the initial

START END TOP BOTTOM LEFT NUMBER UP DOWN PREVIOUS

for moving around the screen. After a short time, the user learns the key seof the text, and though the menus may flash up along the top of the screen while the keys are being pressed, scant attention

Any key sequence can be repeated imme diately, and at superfast speed, by pressing CTRL and R immediately afterwards. This will always repeat the most recently

Two other improvements are the pro-

vision of a calculator function and the fact that the spelling checker is now an integral or hold it in memory for display when re-

Business The spelling checker comes with a

There is also a Word Search function

Though documents can be word-

COMMODORE USER 75

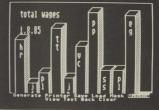
Business

wrapped on screen, like Easyszipt before it, Superscript 64 does not offer a WYSIWYG display, though sinch as screen width can be configured for any number of characters between 60 and 240, something very like the finished appearance can be obtained, if the screen width is set equal to the desired printed width. If the screen width is over 40 characters, then borizontal screlling is employed

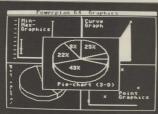
when the typist goes past the rightmost limit.

Presumably, the C128 version will allow the 80-column screen model to be employed. Since most print-outs have a width of less than 80 (75 characters wide is usual-

Insertion of print-formatting characters will change the look of the displayed page, and the more you use the less like the finished result will the screen appear, but there is a View Document option, which strips away all the formatting, and shows the document more or less as it will be for-



Barchart showing 3D and text facility.



Powerplan offers a variety of graphic displays, matted, highlighting special features like underline, bold, expanded and condensed type, upbeginting.

Although Superscript 64 can read and reformat Easyscript files, the process won't work the other way. This program offers a very superior

product at a more than reasonable price. While Easyscript users will find it very easy to upgrade, the way it works is ideally suited to the absolute beginner, and apart from the lack of an index, the manual is a model of how such things should be written and explains anything that isn't immediately obvious.

Superscript 64

Precision Software
 Park Terrace
 Worcester Park
 Surrey KT4 7JZ

Tel: 01-330 7166 • Price: £69.95 (disk only)

#### Spreadsheet with

Though it describes itself as a "table calculation" program, Powerplan is actually a reasonably-prieed, mid-power spreadshet with a useful graphics capability, able to produce bar charts, curve graphs (including multiple curves), point-to-point graphs, an interesting chart they call a "mini-maxi graph", and oic charts.

Combining the graphics pack with the capacity for up to eight windows on screet at a time allows several graphs to be view and simultaneously.

It is configured for a choice of three classes of printer: MPS 801, CBM 1525, or CBM 1526 or ESSon PX80 or RX80. There appears to be no way of modifying the configuration of any of these to a printer which is marginally different, for instance a Shimwa, which is a basic Centrodict-type machine, rather like an Epson, but without its graphics capabilities.

The program is menu-driven, and most of the mnemonics are fairly obvious. The worksheet itself is average size comprising a maximum of 63 columns and 255 rows, giving a total 16.065 compostrators.

The German origin of this package is evident in the meticulous organisation of the manual, which is really very detailed, though some of the translations have lost

There are also some discrepancies between what the manual says and what is seen on the screen: to start planning a graph, once the graphics module has been loaded, you have to press G for Generate, not D for Draw-up, as the manual says, and the option for getting rid of the menu to see the finished graph is V for View, not L for Look.

Also, the option to use double-height labels is rather misleadingly described as Capitals (which it isn't) and as "doublelength" rather than double-height

There is also a useful "sideways" option which can be employed to label barcharts from their vertical length.

Though First also publish two other German programs from the same author, First Base and First Word, there is no option to transfer data between PowerPlan and them, though the word processor and file manager can swap data between them. Moving from the spreadsheet to

graphics mode and back again is rather slow, taking about two minutes, though in the graphics mode the spreadsheet in memory can be looked at, though not modified in any way.

As a graphics package, this doesn't compare with the likes of Vizastar, say, but then it's about a third of the price.

Powerplan
 First Publishing Ltd

Unit 20B, Horseshoe Road Horseshoe Park Pangbourne, Berks Tel: 07357 5244

Price: £44.95 (disk only)



#### DIY monitor

Dear Tommy, I have recently acquired a Hitachi 510NJB22 colour monitor from an old arcade machine. Unfortunately it has a five line RGB input (RED, GREEN, BLUE, and probably 2 sync. lines). Could you tell me if there are any products or DIY material available which would allow me to change my composite output from my Commodore 64, to the RGB standard? Your help will be very gratefully received.

I regret that I am not aware of any products available to allow machines. Neither is there any signal is generated inside the VIC chip and emerges as a composite signal directly. Unless engineer who might be able to convert the monitor (and this will be unable to use it with your

#### Missing blocks

Dear Tommy, I have been using Easy Script successfully for over a year, but notice that some of my discs are running out of spare blocks more quickly than others. The worst example shows that 388 blocks are missing out of the original 664. What is happening please? Thanks in anticipation of your explanation. I assume that you have deleted some files from these disks

during the course of your wordprocessing. What seems likely is that although the directory is (Block Allocation Map) is not being set correctly. This is normally done automatically on deletions; however, if the program does block reads and Have you tried doing a

impedence. Thank you. doing any work yourself with and set the BAM without any entry appearing in the directory. Again, doing a Validate will destroy any Random Access files

#### Neat numbers Dear Tommy, I'm writing a

program for the Commodore 64 to do my home accounts. But I can't get my lists of figures to look neat by having the decimal point in the same place on the columns.

Can you help me?

routing which can be called each them in and the connection time before jumping to the routine you can pass the number print statement for a number

#### ımy's Tips Tommy's X = number or variable to be to it and I am loading the

printed > :GOSUB 1000 The following code should then be included as a subroutine in buffer. Is there any way in 1000 IF X < 0 THEN

X = X + 11005 X\$ = STR\$ (INT (X)): IF X = 0 THEN XS = "0" 1010 L = LEN(X\$):IF L < 6

THEN XS = LEFTS ", 6-L) + XS

1020 X = ABS(X):S = INT ((X-INT(X)) \*100 + .001) 1030 S\$ = "." + RIGHTS (STR\$ (S),2): IF S = 0

THEN SS = ".00" 1040 PRINT X\$;S\$: RETURN

#### DIY monitor

Dear Tommy, Could you possibly let me know which pins of the Audio/Video port of the 64 should be connected to an external amplifier to improve the sound quality? I consulted the user manual, but the diagram showed a different configuration of pins to the port on my 64. Could you also let me know whether the output is high or low



The pin configuration is as the manual, except that the socket on the computer has several more pins than the diagram. If you ignore the top two pins and the middle pin you will find that the remaining pins are the same as the manual. Audio Out is pin

If these two pins are connected The casiest way of doing the diagram below, they can be connected to an audio amp using then use all the string manipula- than a 'mic' input. For a hi-fi tion commands to position the amp, you can buy a cable with a What you need is a short print two phono at the other. Just plug

#### Auto-run

Dear Tommy, I have a Vic 20 and I am writing a game for it. There are two parts

second by poking New, Load and Run into the keyboard which I could make it New,

ommy's

load and then run from line 10 onwards (like RUN 10-). Also is there any way of using an interrupt driven machine code routine to constantly check for a run-

stop or run-stop and restore from the keyboard and if they are pressed, NEW the program? These are both for security? One very simple way is to put a line of the second program.

which will have the same effect as RUN 10. Also, rather than poke 'NEW LOAD and RUN' into the keyboard buffer, just put the line LOAD"programname" at the appropriate place in the program. This will RUN the program, provided the second program is smaller than the first (if it isn't, you can make the first program look bigger by setting addresses 45 and 46 to As for the second question, the

STOP key are contained in memory locations 808 and 809. By directing the vector to your own code you can do a cold start Basic program. To redirect the STOP vector completely you must do it in machine code, Basic is too slow. If an interrupt changing the vector it would cause a crash. If you simply want to disable the STOP key then POKE 808,240 or POKE 808,251 will do the job.

#### Trying to compile

Dear Tommy, I recently purchased Stack's Basic Compiler; for most of my programs it has worked with no problems. However, I have tried to compile a program which uses hi-res graphics from address 8192 to 16191. When the compiled program is RUN, the message 'ILLEGAL QUANTITY ERROR appears. Apparently, the

l'ommy's

compiled program is also using the area from about 8000 onwards and I presume that it is 'clashing' with the hi-res area. Is there anything that I can do about this please?

#### Tommy's Tips Tommy's Tips Tommy's Tips I compiled another

program which stored data in the area from about 8000 onward. That had Pokes 54,64:Poke52,64 to protect this area. I found that I had to delete these pokes in S order to get the compiled program to RUN without causing an 'OUT OF MEMORY ERROR' Perhaps this may give a further clue to the problem and its cure. Unfortunately what you presume is true, the compiled

interpreter is occupying the space required for the hi-res graphics or data above 8000 I do Stack compiler uses, but suspect that at least one part of the code will not be relocatable. in which case it can only be used Part of the problem with ommy's compilers of this sort is that they do not produce true machine code; it is a kind of half-way code that resides in the memory along with it. I suspect that it is the interpreter that occupies this area. Is there a limit to the size of program that can be compiled, since this may give you a clue as well? Basically, when you try to

run a program with hi-res or

Hi-res blues Dear Tommy, I have a Vic-20 and 1520 Printer/Plotter. I find both are very good machines. However, I want to print hires graphics onto the printer, but I cannot find out whether it is possible, if it is possible how can it be

done? Because of the way that the 1520 works, i.e. using a pen to draw lines rather than printing a series of dots, there is no simple method for dumping a hi-res screen onto the printer. It would be easier to plot the picture at Tommv's the same time as it was being built up on the screen since the want to dump a screen that has graphics program (e.g. with a you are out of luck; a dot-matrix printer is the only real answer

#### Paddle problem

Dear Tommy, I have recently purchased some paddles for my Commodo 64 and have noticed that there is a certain amount of 'wobble' when used. Are my paddles faulty? If not could you suggest a routine to remedy this. Could you also

suggest a routine in Basic to show when the paddle button has been pressed.

just that you are trying to read code or possibly the run-time is very fast; so much so that it will register tiny changes in the resistance through the paddles. Basic is too slow to read the values before they change, hence the wobble.

The only reliable way to read them is using a machine-code for such a routine can be found something I suggest you purchase if you want to playin your own programs. As for the fire button, the following Basic Code will read paddles one

1000 P1 = PEEK(56320): large amounts of data, you are P2 = PEEK (56321) just making the total size of 1010 IF (P1AND2) = 0 THEN program plus compiler too big PRINT "FIRE BUTTON A" 1020 IF (P1AND4) = 0 THEN PRINT "FIRE BUTTON B" To read the other two paddles change P1 to P2. it which cause it to hang up. Note that if you use the m/c As the computer is in hi-res routine from the PRG then mode (graphic 3) I don't get this includes reading the fire an error messages displayed buttons.

#### Know your printer

Dear Tommy, I am a Commodore 64 user and I've got two questions. What is the difference between C-1515, C-1525 and C-1526 (I mean in the commands)? (I have heard of ROMs for conversion but I would like to know what codes must be

converted because I am an old 1515 user). The 1515 was the original

old ROM and will not work well get a syntax error which causes the 1515 and was suitable for both the Vic 20 and the 64 since

reputation for unreliability.

one of the timing, not codes. The 64 has to keep refreshing enable this to happen upsets the normal control timing. New ROMs for all the Commodore peripherals were developed to overcome this problem, hence the release of the 1525 printer

There are two ways of solving the timing problem on the 1515 when using it with a 64. One is to try to get hold of the new ROM (Commodore might still supply it although I have my doubts); it is a simple case of taking out the old ROM and

and the 1541 disk drive.

The other much cheaper, but less efficient way is to turn the screen off each time you access the printer (POKE 53265,11 to turn it off and POKE 53265,27 to turn it back on again). This is obviously no good when using commercial software unless you can get at the code to alter it, so a new ROM (or new printer)

#### might be the only solution Dodgy 16 graphics Dear Tommy, I wonder if

you can help me with a problem I've been having with my Commodore 16. I am trying to write a program that enables me to draw shapes on the screen in hi-

res mode. The problem is that the program has some errors in on the screen so I don't

know what's going wrong. Also, there seems to be no way of returning to the text screen apart from switching the computer on and off again, thereby losing my

program. Please, please can you help? This is a fairly common problem, probably due to the way the 16 was originally designed. There are a number of ways around it.

The simplest, although it's a bage on the C16's keyboard and printer for the Vic 20; it had the then press Return. You'll then the machine to default to text

Another way round it would it contained the new ROM. The be to take advantage of the easy 1526 was a more sophisticated way in which you can program version of the 1525, but had a the 16's function keys. You need to program one of these to return The problem with the 1515 is you to text mode. Include the following line at the beginning

KEY1. "GRAPHIC O" CHRS(13) In the line above, 'KEY1' refers assigned to the command "GRAPHIC 0", which returns you to text mode. The last bit, CHR\$(13), is the code for

Return. Now all you have to when the machine hangs up is Finally, you could use the trap catch errors which occur

when a Basic program is executed. Here's one example of how you could use it: 10 TRAP 1000

20 - your program -

1000 GRAPHIC 0 1010 PRINT "ERROR": ER; "IN LINE"; EL 1020 STOP

What's happening here is that TRAP is saying,"if you hit an error, don't stop the program, go to line 1000". When it gets When it gets there, it finds the instruction to

#### C16 upgrade

Dear Tommy, I have seen lots of expansion cartridges advertised for the Commodore 16 which claim to expand my humble little machine to 64K.

If I buy one of these and they're none too cheap - will I be able to use it like a Commodore 64 and run 64 software? Answer

appreciated. The short yet sharp answer to Firstly, the C-16's Basic is rather different to that on the 64 so prosyntax errors. Secondly, many commercial

map on the 64 is organised differently to that on the 16, runnthe machine to crash because in the right place.

The expansions you refer to panied by software or include extended Basic commands for use in your own programming.

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Return to Sender

Any more tales of woe? We'd like to hear from you.

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In reply to David Charles' letler (June 1895 issue) about
wanting to get in touch with
someone size show has adfeated 'Salf of Karnah', well
I managed to complete it on
2nd March 1985.
Hope to hear from you,
David!
Rick Jones.
9 Hobout Crescent.
Dovert.

Kent CT16 2HP.

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Heliol Yes, we do exist Somewhere in the nether respices of
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Have you ever heard of the
Plans'4 You know, the 50K
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Place 4. Why con the C18 and Place 4. Why con the C18 and Place 4. Why con the C18 and have Loop, Zork I, II, and III), and why don't Tower of Evilla Crown't (Melbourne House) we will be considered to the C18 and the C18 a

our powers. Computers suc-ceed only when lots of peo-ple buy them. Enough said? Still. we're pleased you like your machine enough to write about it.

That's not cricket

I am writing about your cricket article in July issue. I am quite upset at the writer's at total destruction of CRICKET 64. It is obvious that the writer had not played the game and

May I point out some of the satures not mentioned:

There is a test match and a mited over match.

Before each over the elders may be re-positioned and a new bowler chosen.

No balls and wides.

Catches, LBW and wiled.

\*\*Battmen are progressivly
weares from No I down.
He was the same is very factical. All there is a bowler's
card and the same of the same of the
I that it is a bowler's
card and the same of the same
I think the report washed when the
have purchased it you would
also were that the game is well
discover that the game is well
discover that the game is well
playable, realistic and enjoyable.

payable, realistic and en-joyable.
A local shop sold ten copies in one day and the buyers were thrilled with it.
It is very hard to succeed as a programmer and personal opinion in magazine can be very damagine.
Ken Smith,

Author CRICKET 64. 73 Wakefield St., East Ham, London E6 1NR.

Cricket 84 was compared with two games that proved superior in virtually all aspects. Realism is pointless if it means boring game play. MP.

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It spipess that there is no
Committee the committee of the committee of

Commodore User,

More for the Plus/4

I am sure that many reade who own a Commodore Plus

tion and software for their machines.

I instend starting a non promise which machines and machine service which claims taken a starting and the starting and t

ampton Road.

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Letters

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As a 64 owner, I've always
fall your coverage of that
surpassed Ashine was untrained by the complete of the coverage
to the coverage of the coverage
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take over?

B. Dugdale,
"The Elms",
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