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MAY

WHAT'S GOING ON Here is the news – bong – full Commodore Show preview – bong – Datahits tape

Show preview – bong – Datahits tape released – bong – latest game releases – bong – cheapest utility disk around – bong.

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Feedback Feedback Feedback F



Write to use and win yourself a T-shirt (S,M,L). Letters to: Feedback, Commodore User, 30-32 Farringdon Lane EC1R 3AU.

Blue Peter badge Dear CU

My son has gone through his latest "Human Race", (good joystick busting games). So I tion to his only remain-

ing Quickshot II. obtained two fruit machine micro switch buttons from an arcade makes hell of my Naval engineer and bought a Energy Units. double pole toggle switch, 5 pin din plug and socket and a bit of multicore cable and a suitable plastic box.

First I mounted the 5 pin din socket in the side of the joystick and linked common cable to the din pins. Then mounted the fruit machine switches in the box wired them through the switch which changes the buttons from left/right to up/Down, then put the 5 pin plug on the end of the cable. Now he has Arcade style buttons. He says they are faster than his joystick wiggling too.

Lancashire. • Great idea, Colin. And it sounds really easy to

Elite Bragger

I am an Elite pilot, I became Elite in October 85. It took me a mere 4 weeks to become Elite. I am fed up with seeing pathetic little complaints from pathetic. average' pilots who most of the time don't know

what the hell they're

going on about.

decent pilots out there apart from me and Fred Reid, sort this one out. A spaceship invisible to radar, takes more shots

I've experienced this craft at two planets, Orbequeo and Rain, in galactic charts 6 and 8 respectively. This craft

I phoned up Firebird software and they didn't know what I was on about. Maybe I'm going mad with post Elite stress disorder!

If Fred Reid is as good as he's made out to be he would have found and blown up one of those like I have. Commander Charlie.

Monochrome

moan Dear CU.

Have you ever tried watching snooker on a black and white television? I'm sure that some have and will know how frustrating it is, not knowing what colour ball has been potted and so

The same applies to . some computer games. Dear CU. They are nearly I have found three ways impossible to play of helping the full use of properly on a black and the Plus/4. I have found white television. A that if you type the classic example is Mama ESCape key and F2, you Llama, where chosing don't have to type LOAD the right colour can "programme name". You mean the difference can also do this with the between life and death. SAVE command by All I would like is for typing ESCape and then software houses to make F5.

their games a little easier I have also found that S. Perriam. to play on a black and instead of having to Devon.

If there are any other white television. Some of us can't use a colour television. David Lyvet.

Actually, I try than the constrictor and watching snooker with looks like a gone wrong the TV off. We take your point - what there was

Speed Freak

Dear CU I have had a C16 for two years now and I am quite pleased with the results of the machine, except the only drawback is that it takes forever to load in machine-code and Basic written games. This is

the reason I am writing. Do you or any of the readers know of a turboload program for the C16? Many users would be glad if you do, I'm sure can speak on everybody's behalf on the matter because it would save a lot of waiting and boredom, not to mention

hassle! Stewart Boyle,

Strathclyde. Our man who knows everything doesn't know

out there who knows! **Driver software**

press the reset key with run/stop, and then X to leave TEDMON, you can type SYSTIME to perform a Run/stop

David Shirley,

· Er, we'll take your word for all that. I'm sure Plus/4 readers will now be very happy.

Off the Hook

am writing about a letter in your March issue of Commodore User in the 'Feedback' page entitled 'Sweet

How can anyone be so stupid and selfish to say that drug addicts should not be helped. Does he know what it is like? It seems not. I am definitely not saying that drugs are right but people like Bruce Allen are as bad as the drug

addicts themselves! Anyway, what right does he have to say how. where and when people should spend their

money? Christopher Taggart,

Workington.

Drug Abuse

I agree with Bruce Allen (Feedback - March) about the decision to give money to drug addicts. It was their decision to take drugs in the first place and therefore they must accept the consequences of their action.

After all, there are about this (caught out enough adverts, stories again). Must be someone in the newspapers and even a program called "Drugwatch" that shows what drugs can do to you. Therefore if people still

continue taking drugs they must be stupid and don't deserve money being spent on them This money should be used to help find cures for various diseases or given to help people like the men of the R.N.L.I. who save so many lives each year, risking their

own in the process.

What's going on What's going on What's going

Wild Bill Hits Town



'Wild' Bill Stealey, the eccenannounce plans to beef up his operation in the UK.

For the last two years the excellent range of Microprose simulations have been imported to the U.K. by U.S. Gold, and they will also be handling the next six titles submarine simulation (reviewed in this month's Screen Scene).

Whilst on a recent visit to the U.K. Stealey told CU he believed the market for about to take off in a big way as people were tiring of simple arcade games and wanted something a bit more challenging.

Unwanted Mail Kwah". Day Four: "Je Ne say Kwah". Day five: Kevin say CU is getting the strangest Kwah". Day six: "Kevin + mail these days. What do you - Say Kwah = Red Hawk". make of this series of letters. sent one after another. throughout last week? Day saw through this thinly One: one word letter con- disguised publicity exercise sisting of the word "Kwah". Day Two: "Melbourne House". Day Three: "Say

• Shorts Chip Factory: At last, a new game from Commodore stalwarts Audiogenic — and it's for the C16. Called Chip Factory, it's a game in which Charlie has to keep the production line of chips (the silicon variety) flowing steadily. Sounds fun? Audiogenic reckons it's 'pure unpretentious fun' for £6.95. We'll be finding out next month.

mid-May and don't forget to and Baby Berks for the 16 say "Kwah" to anyone you and Plus/4. A-O can be

"We have to educate the tric boss of leading American public. They are currently simulation firm Microprose, confusing cheapness with flew in to London recently to value for money. One of our

pointed a full time U.K. including Silent Service, the representataive and are Mupodos, which puts the submarine simulation seeking a managing director theme tunes from five top

simulation software was given a brief to look out for and Hypersports (you know, good software with a view to the Chariots of Fire theme). selling it in the U.S.

Of course the hard-nosed

news hounds in the CU office straight away. If Melbourne House think

write about a new adventure game called Red Hawk, staring the bungling superhero mentioned in the title, and using a completely new comic-strip technique with three separate pictures on screen at any one time, just by sending us a heap of silly letters, then they can forget £1.99 league there's Return

Look out for Red Hawk in (arcade action) for the 64 happen to meet.

cellent 64 product has been developed here recently. said Stealey.

Wild Bill also scotched the popular U.K. view that American software houses were pulling out of 64 games in favour of ST, and Amiga software. "That is completely untrue. It got around because Trip Hawkins (boss of Electronic Arts) said it recently. We will be developing Amiga and ST games, but our main priority for the forseeable future is to the 8 bit machines, and that means the Commodore 64", he said.

• Shorts •

Good news if you're a C128 possess a Microvitec monitor. Until now, you couldn't Microvitec works on the RGB to the rescue with a device that links the monitor to the RGBI output on the 128, colours. The cable costs £19.95 and you can get more details on 0423

Looney Tunes

id you ever funk crucially around the room when simulations can keep you you played Rambo, or hooked for literally months, freak out to the Crazy years even, where as you will Comets theme? You didn't? Neither did our afternoon".

To help in this education they heard the new Microprose have already ap-

Datahits is a new idea from computer games onto an One benefit to budding audio tape (disco mix). And U.K. games writers of the here's the Top Five rundown: Microprose U.K. operation is Rambo, Neverending Story, that the London office will be Ghostbusters, Crazy Comets

Although all the tracks "I am most impressed with were created using a 64, the standard of programming they're nothing like the in the U.K., some really ex- originals. That's not surprising since no less than the Smith. But you can hear the Commodore Sound Sampler, sounds thumping out on our Sound Expander, Music stand at the Commodore Studio and the Syntron them. And the results are

Datahits costs £4.95 (there's a database on the B side) and is exclusive to W.H. Show (9-11 May) and get the Digidrum were used to record chance to win one of fifty copies we'll be handing out.

• Shorts

More cheaples: CRL is the latest software house to they're going to get us to join the MFI school of pricecutting. It's just launched the cheapo 'Alpha-Omega' label which will sell software for just £4.99 and £1.99. In the upper bracket, you'll get Vidcom 64, a graphics package that lets you switch between hi-res and multicolour graphics. Down in the of the Space Warriors contacted on 01-985.6877. More musical fun soon.

• Shorts • Ins and Outs: They're

playin' those musical chairs at Commodore again. You'll music stopped last time. Jack Tramiel sat down in the Atari seat (very comfy) and so comfy). Now that the Big Chair is positively uncomfortable, they're moving again. And as the music stops, Terence Rattigan (erstwhile bigshot at Pepsi). slides into the Big Chair and out goes Marshall Smith.

games waiting to be launched is growing again. Leading the field (surocean with still to be launched 'V', Street Hawk, Knightrider and Daley Thompson's Super Test.

SS are also doing very nicely with Swords and Sorcery, now nearly two years late for review.

Max Headroom g-g-gets in on the act with his game now two months late on the

C16 manufacturers are proving that they can be just as late to come up with the goods as the 64-houses. Doing well here are Tynesoft with Jet Set Willy.

The situation with late



amusing if you've already several weeks for their sent off a cheque to one of games even after their chethe advertisers who announ- gues had been cashed ced a game and quoted a naughty, naughty. Our adprice before actually having vice is to make sure the supthe game in stock.

games may not be quite as ed readers have had to wait any money.

plier definitely has the game A number of our disgruntl- in stock before sending off

one key - so you spend more time twiddling knobs than bashing computer keys. It costs £14.95 on tape, £16.95 on disk. Don't radio Moray, just call them on 05427 384 for more info.

Shorts Log your callsign: Tuned

in radio hams may be

station callsign logging program called Turbo-Log

for the 64, 128, 16 and Plus/4. It's designed to make

already logged callsigns easier and faster to check. and to log new ones (together with date, time and

It's for You-hoo

hone-in mania is sweeping the games world. Commodore User started it all off with our Phone-In competition in the March issue when we asked you to phone our Games line number, listen to the sound tracks, and identify them to

win a prize. Now Beyond have set up their own games-line to update the games players on

the story of Midnight. The complete Doomdark story lasts thirty five minutes so expect a hefty phone bill if

But at least you don't have

to listen to the whole thing in one go. The tale has been broken into 13 separate instalments and will be run across separate evenings.

Beyond reckons the phonein idea will help sell copies of the game, and that the promotion may even be used for we'll be looking at Load 'N' Go

> A spokesman told CU. Doomdark's Revenge is ideally suited for the phonein promotion as we had already produced the story tape to be packaged with the game"

But gamers outside the to phone the Doomdark line as the operators of the phone-in service nationwide. You'll find the number on Beyond's magazine advertisements appearing in May issues of magazines.

Load 'N' Go

available for the 64/128.

Licenced from American love letters! company Sharedata Inc the package comes in a bubble a Utility Cartridge at \$14.99 packed range called Load 'N' with over thirty claimed func-Go - so called because it tions including program needs no independent recovery and screen dumping. documentation

available at \$7.99 is an Elec- company responsible for tronic Scheduler (that's a diary developing this cheap software to you and me) a spreadsheet, hopes it will have the same

rgus Software has database. Home and Business range of budget book) and Masterword, a worddisk-based 'pro- processor which also provides ductivity software you with a set number of letters including an option for

Also available in this range is John Zentz, President of

Among the range of utilities Sharedata Inc the American

result as it had in his own country. The cheapness of the software will encourage disk ownership. In America he kept costs

and supermarkets around the country. "I thought I might end up with a lead suit", he smiles, "But it worked out in the end sales went through the roof', here? "We're not assured, we don't have all the answers," he opens up. "We understand there are fewer disk owners over in the UK, but we think we can encourage people to huy" Can this man start the Great British Disk Revolution singlehandedly? Stay tuned.



Shorts Utility disk: A new utility disk for the 64 and 1541 is

Managers Ltd. Called Discom 64/1541, it offers the usual file backup, rename, protect facilities. There's also disk backup, disk protect and easy access to the 64's DOS. For £14.94 you get the disk and a short manual. More

* STOW * PREVIEW *

The 7th Annual Commodore Show blasts off on the weekend of 9-11th of May. The venue is one of London's plushest hotels (You've gotta be kidding, Ed). Well — one of the bigge

If you are thinking of going to the show, here's what you w find there. Take this with you if you are going — it will save you having to buy an inferior guide when you get there.

How Much? Adults £3.00. Under 16's £2.00.

How To Get There? Hammersmith Tube Station (Metropolitan, District, Piccadilly Lines) Buses (7)

220, 714, 716, 298, 74b and 72)

with their stand number in brackets after their name. Only exhibitors that had booked by 25th March are mentioned – so there's probably a few more.

Anirog (106) Anirog will be showing off their C16 Plus/4 Winter Sports game which they say has graphics which will rival the Epyx 64 blockbuster — Winter Games. 64/128 Thai Boxing a 3D style combat game will also be on display.

Bubble Bus (148) are majoring on the 64 conversion of their Spectrum smash hit, Star Quake. Budget games Boing and Metronaut are also on offer.

Commodore — obviously the biggest attraction since the Amiga will be 'officially' launched. There'll be an Amiga village and regular musical performances using the Commodore Music System.

Commodore User (108) Come along for a chat and meet the people who write your favourite magazine each month. The G Force will be there to talk games, swap some opinions with you on the best games around and accept a challenge or two on this month's Screen Stars. Bring some cash with you because we'll be offering lots of bargain goodies with all proceeds going to the Off the Hook charity. We will also be demonstrating the latest Amiga games, offering spot prizes, playing loud music from the Datahits package and generally having a good time - so if you want some fun get straight along to stand 62.

Data Star (72 & 73) If it's a printer you're after Data Star will have the new ML10 printer up and running on their stand as well as a number of show special offers.

Duckworth (101) Complete

range of books for Commodore computers, including the latest releases for the C16.

First Publishing (30) Technical books and utility software for all Com-

modore computers.

Gemini (47) will be sharing a stand with the leading distributor — Centresoft. Their full range of products—including Office Mate and Office Master will be on display and available for purchase at a special show discount price.

Gulltronics (89) London based hardware shop. Probably the capital's best stocked Commodore shop. You will find their prices and range of Commodore kit hard to beat.

I.C.P.U.G. — stands for the Independent Commodore Products User Group. You can join this group of enthusiasts at the show and learn about their activities. Special guest star on the ICPUG stand is Jim But terfield — the acknowledged world authority on all things Commodore. If you want to pick his brains and meet up with other DBM boffins her get along the ICPUG stand is a produced by the ICPUG stand in the part of the ICPUG stand is an extensive the ICPUG stands and the ICPUG stands are the second to the part of the ICPUG stands and the ICPUG stands are the ICPUG stands and ICPUG stands are the ICPUG stands and ICPUG stands are the ICPUG stands and ICPUG stands are the ICP

Llamasoft (114) First chance to see Jeff Minter's brand new 64 game — Indis Alfa. Described by Jeff as a "sort of shoot 'em up but different — with two directional scrolling". Also look out for an early version of Amiga Colour Space, a Vic 20 compliation, and the Minter classic Matrix, for the

Martech (140) Sam Fox fam might just catch a gimpse of the famous page 3 girl if Martech can persuade her to it it into her hectic schedule. Whether or not she's there in the flesh (out-If Egl) you will be able to see her game, Strip Poker, with digitsed pics of sam in varying stages of undress. For the non-dirty raincost owning 64 owner their is also a preview of Death Runners—a Martech's follow-up game to Sam Fox.

Micro Media (119) Complete range of floppy disks, ribbons, listing paper and labels, and diskette storage boxes. Precision (81 & 82) — will be

demonstrating their brand new wordprocessor for the 128. An up-graded version of the classic Super Script, it's regarded by many 64 owners as the ultimate WP. Are they going to be green with envy when they see the extra leatures of its big brother? Preston Software (29) Some of

those ridiculously priced books have been knocked down to around a couple of quid by Preston, along with bargains on The Quill and Illustrator, and the complete Mastertronic Range. Micro Pro (76, 80, 83) will be demonstrating a new version of their famous Word Star word processor for star word processor for the pro

Music Sales (8) will be demonstrating their brand new Complete Music System (reviewed this issue). Definitely the most interesting set of musical gizzmos for the 64 since Rainbird's Music System, and you get a five octave keyboard into the bargain. Software Plus (150) Cut price

games and add-ons.

Software International Distribution (103)— Special show of-

fers from this leading distributor of games for Commodore owners.

Vanguard Leisure (13)— A new joystick will be on display — plus special show offers on old and new

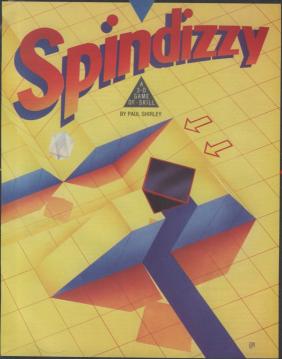
Viza Software (66) will be previewing two business packages — one for the Amiga and one for the 128 at the show. They have what they call a "High End" wordprocessor for Amiga and a 128 version of Viza Star — the integrated database, spread-sheet, and graphics package that has already been well received on the 64. Timeworks (49 & 50) An

American company showing off their range of software for the first time in the UK.

Trojan (31) will be demonstrating their lightpen and Cadmaster graphics package for the 64/128

their lightpen and Cadmaster graphics package for the 64/128 (tested this issue). They also hope to preview the first C16 Plus/4 lightpen and graphics package. Tynesoft (141-2) The Geordie

software house will be showing their whole range of C16 titles which now offers no less than ten different games. Highlights will be the C16 version of Jef Set Willy, and the announcement of C16 and Plus/4 versions of seven Scott Adams adventures.



Available on the 48K Spectrum, Amstrad and Commodore 64 from Electric Dreams Software, all Cattlino Crescotts, Southampton, 15 Cattlino Crescotts, Southampton, 16 Pelphone: (10703) 229694. Pelphone: (10703) 229694. Southary a qu'air painy one di Hie most impressive games on ANY from micro: "DEFAIL, 1995.—AMTX: Spondary comities mameriales applica, lesting pazzes and selle game to make a l'airching yie giptia and and lalegang game." 44 ANTING 595, ARSTROUCTION



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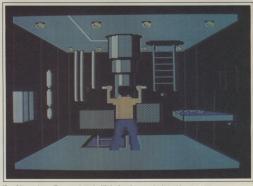
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View of the control tower. The commander can be shifted to four other posts using the joystick



The latest simulation from Microprose is a departure from the normal flight simulator. Instead of tearing across the skies you are in control of a US WWII submarine in the South Pacific. Its author Sid Meier was respon-



Above: The periscope view. Pinpointing a ship with the cross hairs engages the Torpedo Data computer. Left. Night view from the

bridge. sible for the highly rated F-15 Strike Eagle.

Like all worthwhile simulations you'd better sit down with the manual for half an hour before exercise and an irritant to getting you get stuck into the game or stuck in. you won't know your angle or bow from your elbow.

On loading you are offered the choice of three scenarios. You can plunge right in and taste immediate action with Torpedo/Gunnery Practice on a group of ships moored in a harbour, or Convoy Action which allows you

Map position

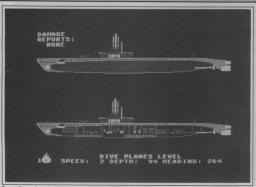


to select action from several possible convoy attacks (surface/day, surface/night for ex-

ample). Sooner or later you'll get bored take on a full-scale War Patrol. The first obstacle to overcome is an identification test in which you have to pick out a certain type of Japanese boat using the manual. It's a bit of a pointless

Now choose the reality levels for the game. These are extra dif-





Damage Reports Screen monitors damage from depth charge and gunfire attacks. Repairs are automatically attempted by the crew

mon problem), expert destroyer going to sink anything.

zagging convoy for example. while the game loads some got to sink something and I don't map of the Pacific flashes up and you go through the rather a little dot into a convoy zone. Finally when the screen turns red

The screen you see is that of the conning tower - inhabited by a bearded seaman with a pair of flared trousers. From here you can select the rest of the sub-There's the bridge (only available when you're surfaced), periscope damage screen and instruments. You'll find it a lot keys to work your way round

Most of the interesting action is going to take place through the periscope. Beneath the binocular

ficulty factors which you can shaped view of the sea (and don't spread it around) I struggl- used to be around in the arcades choose to incorporate into the ships if you're lucky) you get the ed a bit here. I couldn't get to long before space invaders arrivgame. They're all there to add to Torpedo Data Computer which grips with all the angle on-bow ed. In a way I found that a prothe credibility of the scenario, gives you valuable information stuff, it was all very well when blem because the test of these allowing you to include a certain on target range, speed, angle, the convoy steamed kindly simulations I feel is how big a number of dud torpedoes (a com- and course - all vital if you're straight past you like ducks, but kick you get from destroying the

This is where it starts getting complicated. So far it's been floundered. I reckon a geometry in a puff of smoke. Here the With your choice made you press a few keys and read qualification could well put you graphics don't give you anything then have a mammoth pause carefully, now you've actually in good stead here.

when they started to turn away enemy. In the flight sims it's or behave at all ungentlemanly I great to see the opposition go up like that. The sound of a distant Don't expect anything like explosion and the disappearance more. Finally you're ready to ship mind telling you (as long as you those convoy patrol games that of a ship off the horizon is about all you get - no flames, no

> Graphically the game is neat and varied with all those different screens to switch through though I'm not sure why you get the instruments panel - all the data you need is displayed elsewhere. Sound is based a nice creaking noise when you

But I never felt like I wanted to play Silent Service until the early hours. This one's for diehard sim







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a = CTRL f3 for more help # = SHIFT

#Tasword is pretty unique product. It's 80-column display is well readable and backed up by a well thought out program that really can hold its own in professional use. # Commodore User November 1985

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creen Scene creen Scene

FAIRLIGHT Commodore 64/128 The Edge/Softek Price: £12.95/disk £9.95/cass

Having spent an intensive week

the game enjoyed considerable success and attracted much



Don't make a cup of tea whilst the title screen is displayed - it

Playing the game, several in-

objects is a major component of tant articles are placed in less get there?") and an elaborate plants and egg-timers (don't climbed before the offending

with your "trusty ol" short sword". Against guards and



Start here - in the main courtyard of the King's castle.

are an unsuspecting hero tricked cent of any average arcade find the Book of Light as his first

round the place exploring for the world (Ho, hum, not again - cloaked hero, starts in one of the tually start doing anything important, as the castle is quite large you are ill-advised to tackle wraiths this way, as these

There are a couple of inturn into small, portable blobs elsewhere, safely out of your 2) when Trolls (one up from

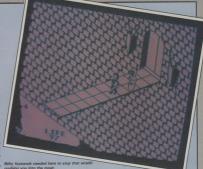
Unless these tactics are and deadly - as you have only a

accessible places. "Egg-timers" used for freezing enemies, are tions, bread, decanters and

Light, well . . . that'd be telling. The first thing you notice when you start playing is the

carved on walls, suits of armour, There's not a glych in sight. the floor at the foot of the King's body?

You'll need to be smart to get this far - and what is that lying on



furniture, scrolls, books, all

unbelievably accurate in minute designed to add realism to the you're likely to notice is the

Unfortunately, the next thing from user-definement and, as a

My last moan about the game the game already had to cope screen - then it's swimming-

time yet - provided you don't



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THRUST Commodore 64/128

Firebird Price: £1.99/cass

games of all time. It was a slow, easy feeling that your ship really

was floating in deep space.

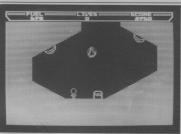
keep your finger on thrust and The really sad thing was that

no other game successfully Until now. Firebird's aptly titl-

Remember the pure joy of ed Thrust uses this brilliant piece floating? It was what made of game design to startling Asteroids one of the classic effect. The aim of the game is to

shoot out the pill boxes quarding each level, grab the fuel dump, A slight tweek of the thrust pick up the fuel crystal, blow up button and you'd ease forward, the power station and then





Above: On level two, the pill boxes on either side of the entrance fire at you. Note the crystal to the left of the fuel. Below: Level four gives you extra fuel but a much trickier cave



thrust off to the next level. This description makes it all sound very simple - something that it definitely isn't. There are waggling here) to be mastered. Left and right spin, shields, crystal pick-up, fuel collection, these things at the same time is

Sure, taking out the pill boxes that crystal it's like trying to run with a cannon ball chained to your leg.

To earn bonus points you have to destroy the power station

With the crystal dragging you the gravitational style it will take considerable skill to get yourself into a good enough position to

straffe the power generator. Once it starts to flash you know it is going to blow so it's

On level one the crystal is left nice and conveniently for you in a wide open space at a safe distance from the pill box.

Things soon get tougher with bottom of a cave with two pill boxes posted either side of the cave entrance.

Seven levels may not sound spent an hour on the first screen you will begin to realise that it is no push over.

Graphics-wise Thrust will not strike you as state-of-the-art but have the most extraordinary addictive qualities.

In terms of lunchtime and after games at Firebird's HQ. I am not one bit surprised - for a budget Eugene Lacey

Graphics *** Toughness **** Staying Power **** ****

EMPIRE Commodore 64/128 Firebird Price: £14.95/disk £9.95/cass

Empire, Firebird's latest release has been heralded (by Firebird) as a cure for bored Elitists. The game offers an unusual combination of space exploration and trading strategy, blended with just enough shoot 'em-up to

make things difficult. For the most part your view of screen, with all the ships, instruments arranged around the outside, through the porthole, you can see your ship portrayed trols offer forward propulsion, reverse thrust (for slowing down), left/right heading and the

The Galaxy consists of about 60 systems, each solar system conspace-station in orbit around one, a number of alien craft, and

While in space, pressing 'G' will halt the game and summon up the galatic chart. Each system is shown as a dot, whilst the system you are in at the time the cursor over any system and its vital statistics appear to the visitled it vet, the number of planets, Alien or Empire controll-

tion statistics. Pressing 'T' will get the chart of your current system. This anywhere on the chart activates couldn't be easier, no groping on the chart. Simply rotate your chart shows the relative positions and orbits of each planet.

SHIPS EXTRAS SHIPS EXTRAS TRADE 2. TAPE 3. MISSION 4.PO Inside the starbase you'll be offered four options.

the starbase, and other objects the system very accurately of interest. Placing the cursor the ship's directional indicators around here. The left-hand direc- ship until the arrow above the inenabling you to fly to any part of

Finding your way to a starbase pointing to the cursor's position

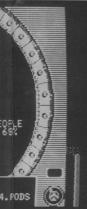
pointing to the starbase and tion indicator toggles between dicator points straight up and







· A map of the galaxy with mineral information.





cept missions, select shin's extras and save the game so far to tape for future loading (a sensible

During the course of the game, you will receive radio messages from space stations across the galaxy. Successfully completing these missions will help you equip your ship with the latest extras. There is usually a time limit on these missions, so you will have to report to the appropriate starbase pronto or the offer might be withdrawn.

You don't trade in the traditional sense as no money changes hands. The starbase needs certain materials to produce the 'ships extras' that you need, the necessary materials are produced on the planets. Collect the cargo pods from the planet surface, and deliver them to the starbase, and pods containing various items will be made available to you. A simple reward

the new system. In case you The planet surface. change your mind, the left-hand indicator will guide you back to

Descending to the planet surface involves flying an orbit corridor. The entrance to this corridor is shown on the system chart as a small white dot close to the planet, while in space, it appears as a white square.

On entering the corridor, your screen changes to a forward view along the corridor. Keep your ship in the centre to avoid

Master of the Lamps.

At the end of the corridor, you are placed on a featureless planet surface, predominately orange in colour. At first, you will have to negotiate a forest of telegraph pole-like trees. Hitting a tree reduces your shield strength slightly. Once out of the forest you will be ceaslessly bombarded with oddly shaped missiles. You can either avoid or attempt to shoot them, but if they hit you, your shield strength significantly reduced. Your left-hand direction indicator points to the nearest cargo pod or exit window, shown as white

and green pyramids respectively. Keep the pyramid dead centre as you approach it and you will collect the pod or be shot back into space again! Once you are back in space, the pods will be placed near the corridor entrance, and you will have to pick

The pods now appear as smallwhite circles and to pick them up you will have to extend your cargo ropes. Each rope apparently has a small sticky blob on the end (revolutionary technology here) and you need to man oeuvre your craft so as to catch the pod on the end of the rope.

Not as difficult as it sounds? You cannot approach a starbase with your cargo ropes out. so you must withdraw the ropes pods inside. Some pods contain

damage - this part of the game radioactive ore, and carrying to many for to long has an understandable ill-effect on the

Alien spacecraft appear as small, blue versions of your own craft. and can be destroyed with a well-place cannon shot. All the systems in the galaxy have some aliens, some more than others. At best, they represent a nuisance, at worst, a formidable challenge, and destroying enough alien ships in an alien galaxy can win it back for the Empire. In the main. Empire is as in-

furiating as it is engrossing. Your performance at the end of a game is expressed as a percentage, but no real overall task is specified. The main screen layout is a trifle primitive, the sound was nothing more than squeks and wooshes, but I particularly like the 'water quages'

The game lacks any kind of realism (who ever heard of twodimentional space?), and some of the missions are a teeny bit far-fetched. If Firebird expect to tout this around as a sequel to Flite they'd better drop the whole idea right now, and while they're at it they could do the same with the price. Fred Reid



Space Exploration.

you must fly between them, and amount of precision is needed here, or you won't be admitted.

you are pointing in the right

direction. Various objects might

get in the way like planets

(which you simply bounce off!)

and the sun (flying to close can

cost you the game), but after a

small detour you can easily find

Flying between systems is a

edge of your current system will

eventually get you to another

system. You'll have to avoid a

great many asteroids on the

way, but you are guided by the

right-hand direction indicator

which points unneringly towards

your course again.

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BOMB.JACK Commodore 64/128 Elite

Price: £9.95/cass

The first of Elite's trio of arcadelicensed games for '86 has arrived with their conversion of Tehkan's platform challenger Bombiack. Where I normally find the stan-

dard platform fare about as interesting as waiting for a nightbus, Bombjack provides incentive to keep on playing. Each screen is short - by which I mean it can be quickly completed. And that's not suggesting it's easy. It's harder than the coin op version.

If you haven't played the game is a sort of super Mickey Mouse. Complete with cape and natty little red suit he flits around five dif- per screen. The rest is down to the original but I do have a slight the trick. If Elite rate this as the ferent screens collecting piles of your stick control. bombs left lying casually around.

Jack is helped in his task by system (who doesn't) if he col- the game. three coins. E gives him an extra lects the bombs in the order they



before let me set the scene. Jack life, B a bonus and P freezes the flash he gets a firebomb bonus. nasties. That's all the help he Not easy I can tell you. gets - there's only one of each

Jack flies when you press up clash. So at crucial times you're then I'm certainly looking for-Each screen is progressively and hit the fire button, but you'll left squinting to find the odd ward to the rest more difficult to crack and there need to master the hovering bomb. The backgrounds are nice are four levels worth. Each time technique if you're going to and colourful but the indistincyou progress a level the platform crack this game and get anything tion could cause problems. The set up has changed slightly and like decent scores. Bombjack tune's not exactly endearing but you see, works on a bonus it lends itself well to the pace of

I must admit I didn't expect to

Top: This is the disneyland screen - Jack has come unstuck on the top

Left: New York and Jack has got the power coin which turns all the nasties into bonus pumpkins

find myself glued to Bombjack Graphically this looks just like over the bank holiday but it did moan. Some of the colours weakest of their three releases

Mike Pattende **** Toughness **** Staying Power ++++ Value ****

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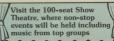






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Psi5 TRADING CO. Commodore 64/128 Accolade

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The local inhabitants of the recently colonised Parvian Fronquadrant of the galaxy is plagued by pirates out to make a quick buck by looting the freighters which regularly visit the sector. captain of one of it's ships. The lack of supplies has forced the pay almost anything for supplies. Your job is to deliver the cargo on

time and in one piece, but a dif-

ficult time lies ahead. As captain you don't actually perform any of the menial tasks like navigation, repairs and weaponry. Instead, the crew members do it for you. My initial reaction to this was one of utter do the shooting around here it's of a candidate's qualifications, depths of space. Your captain's under attack the enemy ships going to be me I thought. But you soon get used to having someone do it for you. What you have to understand is that it's ped to the top corner. the other people on the ship that have the fun, you are in com-

Your first job as commander is to handpick the band of dedicated men and women that are about to follow you - probably to their death! There are five vacancies to be filled, weapons, scanning, navigation, engineering, and repairs. You get to choose between six can-



Broxxnagg has been selected as a crew member

complete with photo paperclip-

strange looking creatures and some are droids. Take Boris. Boris is a 47 year old Jargonian, an expert on the GX75 laser cannon and pretty good with sonic missiles not to mention the M26 battle thermos. The basic idea is select Nav, then acc, then each section of the ship to carry to pick a crew that will work together as a team.

didates for each post. Full details crew, it's off into the farthest. For example when you come

provided in an on-screen report screen on the left, communica- to before you can give the comtions screen on the right, on mand to attack them. If you are which the crew members ap- being attacked by more than one Not all the hopefuls are pear, other ship's instru- party you must decide which one

choose the speed. When several out the necessary maintenance.

humanoid, some are pretty mentation below and, at the bot- you want the crew to pay most tom, a window used for status attention to. Commands are issued to the to take place without a little crew by means of a menu used in damage being done to your own

Similarly, no skirmish is likely

Sometimes excruciating deci-Once you have assembled a they are each allocated a priority, sions must be made as to whether to give priority to a

system or your fading shields. During one game I succeeded

in killing off the navigator pretty early on by ignoring his pleas for a repaired life support system. Although R.I.P. was displayed on me prerecorded messages about

The graphics are really excellent. Although there's nothing communicate with one of the crew they appear on the screen fully animated. Mouths, arms, move as do some of the

stunningly clever about them and works nicely within the format of the game. Whenever you eyes, hair and even tendrils Ken McMahon **** Graphics Sound ++++ Toughness



The navigator scanning the galaxy. Take a tip from me - look out for this member of your crew

COMMODORE USER 29

creen Scene Screen Scene Screen Scene

ARK PANDORA Commodore 64/128 Rino Marketing Price: ff 95/disk

The icon craze marches on as little picture symbols to imple- against all the nasties. ment-commands in their island adventure tale

You play the part of a pirate island prison by the natives to

Luckily, those years in a tiny keeping fit. Which was fortunate because you will need all your ing and catching to complete

In true arcade adventure style sault, despite its rather clumsy the game is divided up into a number of sub-plots. You have to find objects to enable you to perform certain tasks. For example the crucifix is required to kill the cases. priest, the net to catch the fereagle. You get the idea - so I won't give away any more

aries in his employ and even a warlock in a certain location. items you need as you explore.

Alligata's latest offering uses the dora is that it is not just you sophisticated - it could have can enlist to help in your quest. ventures that have preceded it.

The condemned man at the who has been released from the gallows, the fisherman, hermit, witch, and prisoner in the where you left off - such a hefo them defeat the evil High dungeon will help you in some useful feature in tough games of

Priest - the tyrant keeping them way - usually by giving you this type. something to achieve a task. Weapons-wise you are armed cell did not prevent you from with discs and studded balls Not quite in the Galway/Hubbard

> Your acrobatic ability has satisfying game to play with already been noted - it's most good quality sound and graphics. useful aspect is the pirate somer-

animation. The game has no less than ninety-four locations - with fairly impressive graphics in most

One of the main faults of arret, the ferret, to find the key, a 'cade adventures is that they witch's amulet to trade for the tend to be pretty worthless once you have cracked them. Ark Pan-

The High Priest has a heavy dora avoids this obsolescence gang of soldiers, guards, with a neat trick — a Screen trackers, bandits, and mercen- Designer.

This enables you to move the scenery around a little bit. It's The icons come into it to pretty time-consuming, and enable you to pick up and use the doesn't appear to alter the gameplay very drastically, It's a The nice thing about Ark Pan- pity that it wasn't more given Ark Pandora a real advan-There are also allies that you tage over dozens of arcade ad

Again on the plus side you can save old games and take up from

Musically the game has two excellent original pieces on it. which you an can lob at the class - but still very good. This is a well planned and

Richard Bradhun





PING PONG Commodore 64/128 Ocean Price: £8.95/disk

This is yet another release from Imagine/Konami range which seems to pump out a game a month currently. Though not viewed as a biggie it doesn't deserved to be overshadowed by its more illustrious stablemates like Green Beret and Hyper

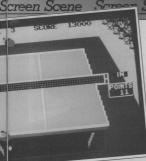
To begin with it's one of those load and play games which don't entail you sitting down with a dictionary and magnifying glass to decipher a lot of ridiculous Ping Pong loads quickly and as

can get stuck in. Controls are simple and the game can be guickly learnt. Learnt, note, not mastered. The computer turns into a Desmond Douglas (you try and think of another table tennis player) and starts swiping balls all over the

It took me nearly an hour to beat the thing on level one. No the room than I was plunged onto the next level and rapidly trounced eleven nil. A guick play bing the joystick button continually in a blur of action. Nevertheless once you learn to adjust



action combined in Ark Pandora.



What's this, Mike 'Hot Shots' Pattende 11.2 down on level 3. If only he could force his oppon into a lob he could then follow through with a deadly smash.

anything else.

Sound ****

for the change in speed at each like a flock of seagulls. though level five still eludes me.

Little has changed from the arcade original. On loading you are presented with a typical Ocean scoring table and Martin Galway music. A quick choice of level and your're straight into the

Graphically it's very nice if somewhat sparse. Two hands hold bats which shift from the hall very stylishly It's the movement of the ball and the shadowing which really make this game so thoroughly en-

joyable to play, though. The gameplay itself is good fast stuff though there could have been perhaps another shot or two in there. Basically you can strike the ball in the three ways: the drive, the cut and the smash, and you need to learn that you cannot just play any shot at random. Smashing indiscriminantly will result in a rapid defeat. Direction change is mostly done for you, but by switching from forehand to backhand and changing the timing of the stroke (plenty of practice needed for

The game is filled throughout with bleeping noises and smart tive. Less effective though is the crowd cheering which sounds

BOUNCES Commodore 64/128 Beyond Price: f9.95/cass

Beyond claim Bounces to be the deadly sport of the future. (Wonder where they got that idea from ... er, Ballblazer?) Anyway you are either, "Erik the Red" or "Sir Ashley Trueblood". Erik being a rather fierce looking Viking and Sir Ashley a gallant

knight in shining armour. The game is played in the "Bounces arena" which looks like our auntie's living room. You have a side view. There are "Goals (which look more like holes) above each warrior's the wall behind him by an overgrown rubber band - otherwise known as a "Plas-flexwire" which will pull you to the back wall causing your warrior to fall down and to lose precious

Your combatants are equipped with personalised body armour which doesn't really help to protect. Your warrior also wears roller boots with "Fric-toe-caps" Ping Pong is a very classy little which help against the force of game. If you want a good headthe plas-flex-wire (not very sucto-head ball game you won't

want to go looking around for All this is given to you by your sponsor which is either "Viking Mike Pattenden Synthi Corp" or "Knight —
Techni — Corp" depending on

who you choose to be. In your right hand you hold what is called a "Bounces ball

Slugdomium sphere", (That means ball in plain English). The ball snatcher looks like one of those things that you used to use to throw and catch the ball on your Away-Day to Clacton at the beach. You can use the ball snatcher to throw and catch the ball

The object of the game is to score more points than your opponent in a three minute bout ninety seconds each way. There are various ways of scoring points. The highest scoring method is to shoot the ball in your opponent's goal. Or you can play dirty by either walloping them with your ball snatcher or firing the ball at them, you can also dodge the ball by jumping or

in eight different directions.

ducking. Although the sprites are neatly drawn they are just too small. game you will probably notice that something is missing variety perhaps

The game is not really bad, but it lacks any sort of a challenge, once you have completed the first level you won't really want to continue playing despite the fact that there are five skill levels. Maybe they should have five different opponents instead. Anyway yet again another good idea down the drain. Thank beavens for arcade conversions.

Toughness ***

Ferdy Hamilton Granbies +++ Sound **



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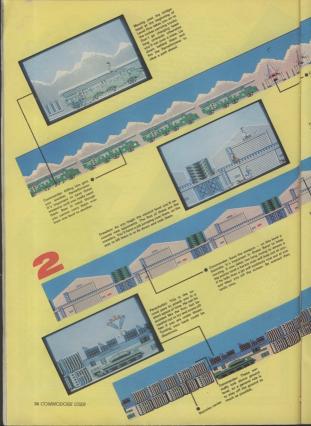
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The Questions

- 11 What does Konami mean?
 - a. Technology
 - b. Konami has no meaning c. Raw fish
- 2) Which game from the three below was not an Imagine/Konami arcade conversion?
 - a. Pina Pona
 - b. World Series Baseball
 - c. Comic Bakery
- 31 What was Konami's first arcade release? a Asternide
 - b. Defender
 - c. Block Game

ī

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Answers: 1		3		

Tie Breaker: What original 64 game do you think would be the most successful coin-op, and why?

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Screen Scene

TOM THUMB Commodore 16 and

Plus 4 Anirog Software Price: £6.95/disk

As I recall it the story goes big forest a lonely old couple. They were very sad because all their lives they had wanted a little boy but, for one reason or another he never showed up. There could have been a medical problem I suppose, but test tubes didn't exist in those days. And to make matters worse, there were no gooseberry

Then, one day, as if to answer weekly trip to the supermarket on the edge of the forest, she was unpacking the shopping and there he was, wedged in between the toilet rolls and the cat food. "We'll call him Tom" said Mr Thumb, "because if we call

him Tiddles it'll confuse the cat" Anyway, to cut a long story short (not that short, Ed.), the years passed and everybody got a lot older. Then, one evening, during a dull bit in Dallas. Mrs Thumb turned from the television and said to her husband "Have you noticed anything

strange about Tom?" Well, I don't know many other fifteen year olds that are three inches tall, but apart from that he seems to be a fairly nor-

"I think we should sell him to a being sold down the river by his dealt with as well as a few en-

Jump over the man with the nasty stick and walk across the bridge.



said Mr Thumb right then",

And that's how Tom Thumb came to feature in a C16 game. The game itself is fun to play as well as providing quite a challenge even to highly skilled players such as myself. Tom has entered the tomb of Pharaoh Manilo (sounds more like a Philinpino dictator than an Egyptian ruler) to try and lay his hands on the Pharaoh's fabulous wealth

software house. They can put parents like that?

The tomb consists of a truly in a computer game and amazing 178 screens of pretty we'll make lots of money". "All impressive hi-res graphics. I didn't get a look at everyone, so I suppose we'll just have to take

> As Tom is moved around the detail scrolls away behind him. This gives the impression that you really are in a large maze and where the whole screen is

redrawn when you reach the Each section of the maze has

And who can blame him, after it's bunch of monsters to be ing walkways and laser beams

discriminate blasting won't help - in fact there's no shooting in-

The secret is to manoe your way around the obstacles. This is just as well because the monsters are so cute I don't

There's something peculiarly unthreatening about an egg on legs, a pea with a hat on and huge boggle eyes, and a devil with a cheeky smile

Once you have the knack of squeezing past them, you can pick up a key which opens a door on other parts of the maze and eventually to the treasure. On the way there are little treasure

Tom Thumb is a game it's hard not to like. The idea is good and it's been very well put together,

Ken McMahon

Graphics **** Sound ++++ Toughness

**** Anirog are really beginning to

make the running in the C16 Stop Press. If you thought Tom

Thumb was good just wait till you see Winter Events, Perhaps time to launch a winter sports game - but don't let that put you off this one. It really does look like a smash. Catch a full



Tom Thumb has to negotiate the crosses before going anywhere

Screen Scene Screen Scene Screen Scene

REACH FOR THE SKY C16 and Plus/4 **Gremlin Graphics** Price: f6.95/cass

I had high hopes for this game. O'clock, cabbage crates over the combat simulation I think you'll

Reach For The Sky can be played either with a joystick or the keyboard. As my joystick was broken I had no option than to try the second method. This difficult, but alas no more in-

To begin with you are given a status rating, which for novices is robin. Then you're thrown unceremoniously into the 'combat zone'. Your plane, presumably a Spitfire, is positioned shoot back while at the same at the bottom of the screen. It can be manouevred left and right across the screen, or up and down a couple of centimetres. This is all very well if you have a aviator put out of business as limit yourself to left, right and blue squadron - a dozen or so fire. Anything more gets confus- planes flying in formation - aping, not to mention very tiring.

In case you hadn't guesed by



that's difficult to avoid.

rewarded with extra guns. The a little more exciting.

Other diversions which liven the bullets as well as the enemy things up are the bombers which screen i.e. going in the opposite direction to everything else. You have to let rip with a hefty bar rage to bring them down and in the meantime their tailgunners return your fire. The enemy fighters are still pouring down on

at times be extremely difficult. Survive for long enough and you graduate from robin to buzzard status. If you can maintain interest there are another six levels to follow. I must admit to becoming bored very quickly

Ken McMahon

Graphics *** Sound ** Toughness *** Staying Power

GHOST TOWN Commodore C16 and

Plus/4 Anco Software Price: f6 95/disk

What's the connection between The Specials? Well, I'm sorry to everything of value and stored it disappoint you, but there isn't in one room,

· You're in a dead-end - or are you



things up a little. When I shot game ever will. It was also cheaper. Does the game have any good points? Surprisingly,

appear at the top of the screen

and make their way, shooting,

time dodging out of the way of

well as bonus points for shooting

down the blue squadron. The

pears on each level to liven

You get ten points for every

planes you missed

now hordes of enemy fighters them down on level one I was

The blurb, in the usual fashion, tells you that long ago Belegro the Wizard cast a spell that turnghost town. Before leaving to take up his new job with the this game and the last single by British Government, he took

You must work your way featured better sound and sold in through the game's nineteen far greater numbers than this rooms to find Belegro and the

treasure. Now n-n-n-nineteen roams isn't the kind of number that makes you break out into a sweat at the propsect of cracking it. When combined with the general lack of complexity you'd expect that to be a serious drawback, but I enjoyed it

Your computer counterpart is a sprite man whose limbs and features remain totally static ven when he's moving. Each screen is a simple maze made up of bricks with the odd bush dotted here and there. Clues must be solved and objects collected from each screen in order to progress.

For example, in the first screen must be picked. Before you can do this you must have a pair of secateurs. The secateurs are hanging from another bush though, and unless you use a ladder to reach them you'll be prickled to death in the attempt (point taken. Ed). The ladder is in a locked shed and the key is hid-

If it all sounds dreadfully complicated the only reassurance I can offer is that it isn't. The above takes about five minutes

for the other problems in the

Some rely on sheer good luck, like the room with four doors at the end, three of which lead to a this out you don't make the same

mistake again There are one or two screens that rely on quick reflexes rather than mental agility. A pulsating laser beam to dodge past and even the spider from Tomb Thumb puts in a guest

appearance. Looking at the hard evidence. Ghost Town doesn't have a lot going for it. The graphics and plot are simple, inane even, but for some strange reason I found playing it quite enjoyable (but you're weird - Ed). For experienced gamers the fun is bound to be short lived. I completed over a dozen screens in-

side a couple of hours Ken McMahon

Graphics ** Sound *** Toughness ** Staving Power *** Value **



he name he game

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Commodore 64 Chart

Chart Chat

A guick Uridium-break while we bring you this chart report on -Uridium. Uridium is the flavour of the month. straight in at Number One in the General and the 64 chart. So the plain 'n' simple shoot 'em up isn't dead - at least not if it's as slick and classy as Uridium.

And now it's over to Mr. Angry for a Chart gripe. The dirty tricks brigade at certain 'major' software houses are going to change the way the Chart is put together so as to discheapo games, from the likes of Mastertronic and many more. Now we all know

that £2 games (especially Mastertronic's) sell faster than fish and chips in Blackpool, so excluding them will distort and falsify the chart. If the £10 games merchants can't compete with cut-price should give up and start selling knitting patterns - and not change the rules to suit themselves.

Back to Uridium to vent our anger.

NEW Uridium	
NEW Hardball	Hewson
3 Yie Ar Kung Fu	U.S. Gold/Accolad
Kung Fu Master	Ocean
Liektra Glide	U.S. Gold
Colus	English
U Eidolon	Martech
Kane	Activision
Mercenary NEW FA C	Mastertronic
Lup Football	Novagen
nock & Wrestle	Virgin
Desert Fox	Melbourne House
Commando	U.S. Gold/Access
-ord of the Rin-	Elite
Master of Magic	Melbourne House
Bounder	Mastertronic
O TOTAL	Gremlin
The Sporte	Cascade
Trail Start	Ocean
One Mand and His Droid	Mastertronic
21019	Mastertronic

Canara

U	ricial	
NEW	Uridium	Hewson
(2)	Yie Ar Kung Fu	Ocean
NEW	Hardball	U.S. Gold/Accolade
(4)	Commando	
(5)	Formula One Simulator	Mastertronic
(6)	One Man and His Droid	Mastertronic
NEW	FA Cup Football	Virgin
(8)	Rambo	
NEW	Skyfox	Ariolasoft
(10)	Hypersports	Ocean

	L	0	
1	NEW	Mr Puniverse	Mastertronic
1	(2)	Big Mac	Mastertronic
1	NEW	Commando	Elite
1	NEW	Winter Olympics	
1	(5)	Formula One Simulator	Mastertronic
п	6	Rock Man	Mastertronic
1	(7)	Tutti Frutti	Mastertronic
п	(8)	BMX Racers	Mastertronic
1	(9)	Squirm	Mastertronic
п	NEW	C16 Classics II	Gremlin Graphics

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Commodore graphics and control codes (important for listings) SCREEN DUMP FACILITIES - of lowres Hi-res and multicolour screens!! Prints full page with 12 shades of grey

and programs like Doodle, Koala pad

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etc. - does not reside in memory.

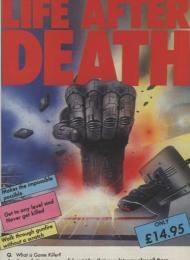
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Sounds like science fiction! I suppose it's available in 2001. A. It's here now!

Q. I'll believe it when I see it!

A. Exactly, so why don't you go to your local computer shop.

The Robtek Gamekiller is available from all good

computer dealers. Enquiries to Robtek (formerly known as Robcom) Ltd. 36 Market Place, Falloden Way, London NW11 6JP. Telephone: 01-209 0118.

Patent and copyright applied for





A nice scrolling ot 'em up with plenty of fast trigger action.

SPACE ESCORT C16 and Plus/4 Atlantis Price: £2.99/cass

As you will have no doubt noticed in the software charts and computer stores, cheap, good Rockafellers.

ing Space Escort to us. The game cade shoot 'em ups. your ship to smithereens as

The idea of the game is to

Ships. A bit of a mouthful for us

Well done Atlantis for introducguide a liner through space avoiding the waves of aliens. You are given 10 lives and oh ly when you are bombarded by The inlay card describes the some of the weird and wonderful

To help you with your task, the Space Files, Spheroids, Xethus liner you are escorting has been Spirals, Griga Kamikaz, Laser given shields - White = 0, Green = 2, Blue = 3, and Red = 4 or more. If you manage to glide your liner through space to the planet, you are awarded a bonus of 8000. If you think that is the end of the game you are sadly liners for you to escort. Shat-Definately not a game for the

The only real criticism I can make is the explosions, they realbeing attacked by a fleet of marauding aliens, especially when you are on your last life and you can't see a missile hurl-

A feature I found most useful was being able to "continue old your last life and a surprise attack blasts your ship out of recognition, you just start that

particular phase again Congratulations to Atlantis for a highly entertaining shoot 'em up which, at only £2.99, does make you wonder how some for up to £7 for their inferior

James Pickering

Graphics Sound	***
Toughness Staying Power	****

PANIK C16 and Plus/4 Atlantis Price: £2.99/cass

Panik is a bargain basement platform and ladders game. Cheap but these days people want quality as well and Panik is a bit short on that.

You are a chubby little character with a red flat cap. The idea is to smash the monsters who share your platform - over the head with a large shovel conveniently placed in your

First of all you dig a hole for the fall into it you have just a few seconds to whack them on the head with your shovel to finish

If you are not quick enough, trouble because to finish these off you need to knock them through the platform and make

If you fail again then the sack turns into a green, long-legged

really get difficult because whilst your oxygen supply is running out. What do you do? Panic well that's the name of the game. As you progress from have already turned into sacks and long-legged monsters

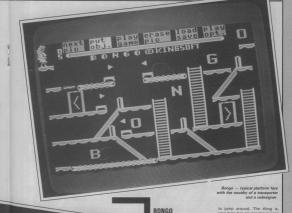
The game is really not too bad. next level is virtually the same. A bit disappointing after all that hard work. What a pity that what could have been a fast and addictive game.

If you are really desperate for a then this will just about fit the out for a decent levels and ladders game then look elsewhere check out Tom Thumb for

James Pickering

Graphics	***
Sound	**
Toughness	**
Staying Power	**





881888 LEVEL BI LIVES 81

C16 and Plus/4 Anco Price: £6.95/cass

Stuck for a game in the middle of the jungle, Anco had a bad idea and called it Bongo. Well the goes something like that anyway. Actually though, the is programmed by one Udo Gertz, who sounds like an

The cover alone was incentive enough to load up the game and investigate. It comes with a create a bit of variety when woman displaying a bit of leg you've cracked the first layout. alluringly to a few rats whilst balancing on a step ladder. It certainly conjured up all sorts of dirty ideas in my mind. Unfortunately the only truthful element of the packshot is the step

ladder. It's a platform game vonder why the hell it was called Bongo at all. In the game your hero can use the words which are spelt out around the screen

your hero has an enormous nose and so do the nasties. So why Bongo? I can only conclude that Manilow was too long for the C16's memory. Rumours of a 128 version called Streisand

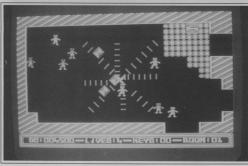
have been denied categorically. somewhere top left and you advert for Umbongo jungle juice some baubles on the way. The graphics are solid and chunky which is a real pity because I hate the sight of a pair of pixely

> Otherwise expect all the normal features of a platform game. The only novelty is that you can redesign the screen slightly to

The high point of the whole thing is the so-bad-it's-good rin off of Jan Hammer's duffo Miami

Mike Pattenden

Graphics	***
Sound	*
Toughness	***
Staving Power	+



Berks III - more Berks for your bucks, probably the best of the three

BERKS TRILOGY C16 and Plus/4 Price: £6.95/disk

The Berks games were first reviewed about a year ago in Commodore User when it wasn't trendy to review C16 games.

bring out half-decent games for games where you have to score the baby Commodore and now points by painting blocks on a they have done it again by com- grid. Supercool bears, wearing ing up with one of the first shades and gold medallions try to

to stay about Berks I. II and III

you and me - are infesting your a bit sorry for the supercool monitor screen. Destroy them bears, up against that lot, with using your 'terror tank'. You only a pair of Raybans to protect have a major advantage in that themselves. the Berks can't fire back or

perhaps they are just too stupid. They do have their faithful drones for protection though that follow you around the screen trying to get you - one touch and you're dead. You can only temporarily. If you can exterminate them all before running out of energy or losing all five lives you go to the next screen which is just that bit harder. If

you could do a lot worse than to enliven a basically lukewarm

Presentation +++ Skill level *** Interest *** Value ***

Here is what our reviewer had your work. Blast these with your "fast action, high velocity, beltmounted laser cannons'

Talk about heavy on the ar-Berks I. "The Berks - robots to rangements. I must admit feeling

The re-appearance of the hom-

it's arcade action you're after ing drones from Berks I does little four by collecting the various

Berks III. "Berks II is without doubt the best of the bunch. You must penetrate the Berks inner sanctum and steal the source of their power - hoards of treasure.

On the way keys must be col-CRL were amongst the first to Berks II: "This is one of those lected from each room. A more difficult task than it sounds, as each key is surrounded by a barrier of protective blocks, through which a path must be blasted. To add to your problems,

hordes of Berks and their faithful homing drones are in hot pursuit. You start with a generous five lives and can gain an additional

hearts dotted around the place. A game of frantic action and certainly the most fun I've had with my C16 so far



Two excellent games, and one so-so one, all round a must for C16 and Plus/4 games nuts.



WIN A TOMY VERBOT

s if Major Blink didn't have enough to worry about. With all those Berks rampaging around the circuits of his C16 causing all sorts of mayhem he also has a pesky Tomy Verbot adding to his aggrayation.

In case you haven't heard of Verbots they are darned clever mini robots manufactured by the Zoids people — Tomy.

Zolas people — Tomy.

They will obey spoken commands such as turn left, right and reverse, even picking up and drop-

ping objects — and all activated by your voice. Clever stuff, eh, but what has it got to do with Berks?

Well that's for you to decide and, if you can come up with a good story line we will reward your imagination with a Verbot of

your very own.

CRL's resident artist, lan Ellory,
has drawn a cartoon strip featuring Major Blink, and the Verbot.

All you have to do is write the captions to fill the speech bubbles. The best entry will receive a Berks trilogy. There are also twenty-five runners-up prizes of the game itself.

Name

Address

Send your entry to:

Berks Competition, Commodore User, 30-32 Farringdon Lane, London EC1R 3AU.







The Next **Big Thing**

Stateside. So just what's replacing them as the next reason to use a computer? Dan Gutman reports.

night. Paul J. was there. So were month trial subscription to than regular software. For one Cupcake, Don W. Boomer, Man- QuantumLink. They're aiming dv D, and dozens of other peo- to sign up every one of the 3.5 ple. The amazing thing was that million Commodore users in this Paul was in California at the country (there are six million time, Cupcake was in Florida, worldwide). Boomer was in Boston, Mandy

CompuServe, the largest of the information networks here. About a dozen of us were tapped

puter over our telephone lines. We could see each others' comments on our screens at the same

It was just like being at a real party, except that I didn't have to get dressed up. In fact, when you're partying from your com-

Is telecommunications very big over here? You bet, these electronic parties are becoming more and more popular as America is going, as they say, "on-line". About 25% of all in," "logging on," and turning in, usually late at night when the

phone rates go down. Big Thing". It may be the thing that finally gives the average guy on the street a reason to put a computer in his home

Quantum Link

company to make the big push in Quantum Link, an information they're giving away free modems

Basically, QuantumLink is a was in Chicago, and the rest full-service electronic network. were scattered all over the For a flat fee of \$10 a month, users can send and receive the news, preview new programs from the major software com-

Q-Link, as it's called, has already thrown contests for its users and had them participate you've got a technical question to answer it for you - just like count they already had 10,000 subscribers. Oh, one other feature on OuantumLink - my

And there's more

QuantumLink is only one of hundreds of nets in the US. ComouServe claims more than 200,000 subscribers, while there are other nets that people are for a few computer owning

Unlike OuantumLink, most of the nets charge by the minute. The longer you're on the line, the more you pay. It can get pretty expensive. An hour on CompuServe costs \$6, and that's when the rates are low. Already there are cases of people becoming addicted and spend their entire life savings on telecommunications. We call them "info-

I reckon telecommunications



makes sense, maybe more sense thing, software costs a lot of money and most of us can't afon-line, you only pay for time. line, it doesn't matter what type of computer you're using.

The sheer diversity of what you can do on-line is staggering. news hot off the wire - even before it hits the newspaper or Grolier put their Academic American Encyclopaedia online. Instead of lugging around all 21 volumes, you can just tap into your computer when you want to look something up. There are shopping networks

that allow you to browse, select, nurchase, and even pay for new products without leaving the house. Handicapped people are taking college courses and sending their homework electronically to their professors. allow people to pay their bills computers. The list is endless. There are even a few services that bring together people to share their sex fantasies from the candy store out there, and it

Electric Letters

stored in a central computer, machine entirely.

The next time that other person logs onto the system, he'll see this on his screen - "YOU WAITING". He taps a few keys and reads my message. If he wants to, he can then send me a message for the next time I log our mail frequently, E-mail is a lot faster and cheaper than the old paper and envelope kind of

More than 200 million pieces of E-Mail were sent last year in ting that 800 million will be sent by 1990. I wouldn't be at all surprised if electronic mail were to eventually make regular mail obsolete.

Of course, telecommunications has its down side. The technology is young and there are problems that have to be worked out. The biggest prodata flying around over those phone lines, and some people are kids) are already tapping into computers and stealing money. falsifying records, and wiping out data - just for the fun of it. Last year a group of New Jersey teenagers were arrested for using their home computers satellites in space! Fun is fun, but there's such a thing as going

More U.S. news

ドレー

The recent disaster of the Space Shuttle Challenger has created a renewed interest in shuttle simulation programs over here. Two of them are on the market

Project: Space Station (HesWare, 390 Swife A., #14, 1852 Century Place, Suite 130, Atlanta, Georgia 30345). Both programs are available for the Commodore 64 and involve building, staffing, equipping,

and launching a space shuttle. It looks to me like they're completely dumping the Commodore Plus/4 over here. You don't see it in the stores here -I thinke one of the best uses of you see it advertised on sleazy telecommunications is electronic late night television commermail (we call it "E-Mail"). If cials. They're selling the thing you're not familiar with it, elec- for \$99 now. That's about a third tronic mail works like this - I of the original cost - just about log onto a network and type in a givaway prices. My guess is that message to another subscriber to they'll unload as many as they that network. The message is can and then discontinue the



off the look

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COMMODORE

NEW LOOK

You'd better look good before you step out to buy next month's Commodore User. Go on, smarten yourself up — and don't forget your shades.

Why? Because we're getting a Summer facelift. It's goodbye to dullsville and hello to a sharper, brighter mag with more colour and — well, simply more style.

We've had to put our cover price up a few pennies, but we reckon you'll think it's worth it.



SCORE CANAL STATE OF THE STATE



G-Force tackles Paper Boy, 'V; Starquake

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COMMODORE USER 53

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Cecil B de Mille give you a library of ready-made

Daniel Gilbert

the screenplay.

Cue lights







novie ma

Ariolasoft's **Movie Maker** reviewed

In light of the recent boom in 'aesthetic value' software, and following their "construction" theme, Ariolasoft have released Movie Maker which has to be one of the strangest ideas yet. In essence it resembles any games designer in that sprites, images, backgrounds and sound are manipulated, but at that point all similarities end. These facilities are in fact combined to enable creation of short (a few minutes or so) animation sequences.

The package consists of 2 disks the first with the main program and second a data disk of shapes, backgrounds, sound effects and tunes.

Having loaded the main program, the user is confronted with a four choise menu of Compose, Record, Smooth and Play. Each subsection is loaded individually from disc, theoretically giving a greater amount of memory and therefore detail to each section.

Compose is the main designing area of the package. The simplest application here is to use a rather poor graphics designer to draw backgrounds. This is rather slow, however, and lacks any of the subtleties of a modern utility — such as lines, circles, or box drawing.

The core of the unit, though, is the animator, which allows several shapes to be designed and then shown in a specified sequence within a displa

For example, images of a man in in sequence in the window to effect a man walking. The use of an efficient graphics duplicator means that a single shape can be designed and then copied repeatedly on the screen. Each copy is then slightly altered for different frames of animation and

reasonably smooth action can be Rates of replay, movement etc. can all be altered, and the animation display window may be moved around the screen in a sprite-like manner so the effect of a particular sequence can be experimented with before it is placed in a film.

obtained.

Your saved sequences are now utilised

in the Record mode of the program Films are made in real-time, although they may be made at a slower rate than eventual playback speed, by moving your animations over the

background as they play. They are added to the film one at a time with all previous additions being played back simultaneously, so the action is gradually built up, much like filming one actor in a room at a time, repeating this, say, four times and finishing with a film of four people in a

This section of the package is the best imitation of film-making; the film may be played forwards or backwards at almost any rate, or frozen. Different animations can be assembled on the film independently, with a maximum of six different animated objects on screen at once. Six people, for example, could be on screen all moving and/or acting individually.

While still on Record mode, a rather restricted soundtrack may be added; although 4 voices are available, only 10 notes are available for each of 3 voices and 10 effects for the fourth.

The recorded film is now taken to the Smooth section ("now take your film to the Stage Manager in the cutting room", the manual says) for the finishing touches to be added. A page of well-scrolled text may be placed at both the beginning and end of the film and the 'flickeriness' of the frames is

removed at this stage, too. The film is now saved as an independently-loading file and may be played back on the computer in its entirity. The manual suggests taping several films back-to-back using a video recorder to make a proper length film (!!)

The package, although technically sound, has a few drawbacks. Firstly, who is actually interested in making films such as these? The idea is quite 'cute' but since this is the 64 and not the Amiga, then the quality of the films is significantly less than ideal. The

underwhelming sound facilities. Then there's the manual which appears, unfortunately, to have been prepared for American consumption; it takes the role of a tour guide taking you round a Hollywood film set. This has the effect of entangling the essential instructions in pages of garbage. which means that it may take you quite some days to actually understand how

to use the program at all The actual length of time required to create a 300 frame original will probably be quite daunting to most people, too. Drawing a single animation in in one of the demos, would require not only a great deal of eye-strain, but also several hours hard work. Producing up to 6 of these and altering them 300 times each would be no mean feat, so making any reasonably large film would take weeks.

So although the idea may have been a pleasant one, the reali-ty is somewhat different. A great deal of time is needed to produce any sort of substantial film, and with all the technical constraints the quality is still more than likely to be unrepresentative of the effort involved.

Movie Maker does, how-ever, add another dimension to the applications of the computer, involving the user's creativity rather than his reflexes, and salves the consciences of people who still claim to have bought the machine "for educational

purposes?"

 Movie Maker Ariolasoft 68 Long Acre WC2E 9JH

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COMPOSE YOURSELF

Commodore's Complete Music System reviewed by Fred Reid

Commodore has decided that more and more people want to make music with their micro. So they've put together a complete package consisting af the Sound Expander, Sound Studio and add-on keyboard for the Commodore 64. Saunds god? The results sound amazing.

You remember we previewed both the Sound Expander and Sound January Well, now they're complete and Commodore is offering them together with a five-octave keyboard in one of two 'complete' packages. The whole lot just mentioned costs £150, but you can get them complete with the Commodore is 67 £300. At present, the software is disk-based, but cassette versions are being prepared right now.

Sound Expander

The Sound Expander module slots into the cartridge port on your 64 or 128. It not only uses the same FM technology as many professional synthesizers costing over £500, but it plays no less than eight notes at the same time.

Forget the SID chip, this gadget is capable of producing sound realistic beyond your dreams.

Looking at if from the front (when plugged in), you'll find the output socket on the right side, and the keyboard socket on the left. On top of the module there's a second cartridge slot protected from dust and cuppasoup by a pair of hinged flaps. This islot can be used to connect your system up to other equipment via a suitable MIDI interface.

Also included in the package is a brief but comprehensive instruction manual, a set of chord stickers, and a tutor booklet introducing the keyboard.

With the module duly plugged in and connected (with the leads provided) to your TV, monitor or hi-fi, and the keyboard plugged into its socket, you can safely power-up and load the software. Sound Expander has been designed with the complete amateur in mind, and no preledge is needed (I know you've heard

time I mean it) to produce spectacular (Richard Clayderman watch out) results!

Cacommodory

Using Sound Expander

The opening screen shows a small piece of musical stave, and pressing notes on the keyboard will show the notation on the stave, and play the note (at this point, a slinky vibraphone sound). Up to eight notes can be played at a time, sufficient for most purposes.

Across the top of the screen is a menu strip. Using fl and f3, you can highlight each option, and pressing f7 operates the pull-down menu (a standard maintained throughout the system). The first of these is the set-up menu, allowing you to choose the basic operating mode. When 'normal' mode is selected, you can play the chosen sound over the entire keyboard.

'One finger chord' mode is just that. Pressing a key will play it's corresponding major chord, holding a key to the left as well will play a minor chord.

When 'fingered chord' is selected, a 3 or 4 note chord played on the lower half of the keyboard will produce an inversion of the chord, plus a bass note. The 'memory' function will hold the chord played after you release the notes, until you play

nother chord or press the space bar.

The 'split keyboard' and 'set split' op-



tions allow you to play two different sounds at once. One end of the keyboard plays say a bass sound, while the other end plays something else. The point on the keyboard at which the change occurs can be set to any note you like.

Other options on this menu let you choose the border colour, display sharps or flats, and transpose the pitch of the

keyboard up and down. The 'Synth' menu is where you go to change the sounds. A set of 32 sounds is located with the main program, and a further set of sounds can be loaded from disc using the disc menu. The sounds included cover a wide range of orchestral infor every rhythm) that can be used as a the riffs are assigned to a key on the 64 or up to 256 riffs can be programmed before sequence, and you can use intro's and outro's as well!

The final menu is for disc operations, the Sound Expander disc, as well as a couple of beautifully produced demonstration pieces.

The Keyboard

his keyboard is definitely no toy. I was quite surprised at the quality just under three feet long and fashioned

struments: string sections, flutes, guitars, brass, piano, as well as a number of purely electronic sounds. And the sounds have

been carefully programmed to simulate the 'real thing'. You only have to close your eyes to appreciate the amount of time and trouble that has gone into these sound presets.

Once you have selected your sound(s), there is a little room for modification, the 'octave' function will move the pitch up or down in octaves while using the 'f' and '. keys will make the sound brighter or mellower, but the actual effect depends a lot on the sound you are using. Using the same keys shifted, you can tune the synth up or down to match other instruments (absolutely essential).

Rhythm Menu

The rhythm menu offers a selection of twelve popular rhythms covering poprock, disco and latin-american styles, using an extensive range of appropriate percussive sounds. The tempo can be adjusted from this menu through a more than adequate range, and you can choose 'Intro' and 'Outro' mode (outro being the opposite of intro). These fun items produce a pre-programmed introduction, 'break', or ending for you music. Pressing cursor up/down or cursor left/right initiates these. A different intro and outro are programmed for each rhythm selected, offering lots

The next menu is the riff machine is a collection of short arrangements (twelve by a three foot length of ribbon cable terminated with a miniature plug that mates with a socket on the left-hand side of the expander. This is perhaps a little thoughtless, the ribbon cable is fragile, exposed and a little on the short side. Aside from this trifling detail. I can find nothing

Sound Studio he Sound Studio package runs in-

dependently of the Sound Expander module, and offers a full range of composing and sound creating facilities using the Commodore's SID add-on keyboard here.

The program consists of two parts: the Sound Editor and the Music Editor (sequencer). Once either part has been loaded, the user can flip from one to the other. Whichever part you start with, you get sixty preset sounds to use, with another sixty stored on the disk

The main sound editor panel is laid out grouped together. A large purple arrow edited and stored back in memory. Whole sound 'libraries' can be saved to disk for further editing, or for use while composing or performing.

Sound Expander's software uses easy to control pop-up menus.

Most of the values displayed on the editor screen are represented by graphic sliders that are adjusted with the cursor

and deals specifically with SID's filters. is quite impressive, and you can see at a glance exactly what's going on inside SID. Selecting the Music Editor (takes about a system of pop-up menus similar to those rhythms are available, but a metronome is provided in the top left of the screen to

Recording, both in real time and step time is accomplished in true multi-track style. In other words, you can record one normally, but if you are fortunate enough

Tracks entered in real time can be edited from the step time page, the note information is presented in the form of a downward scroll within a window, and notes can be entered or edited simply and

The Verdict

Sound Expander is a revolutionary package that offers not only superb sound quality but remarkably easy to use software and a well built 8-note polyphonic keyboard. What more could you want for £150.

It's unfortunate that the Sound Studio software is totally incompatible with the rest of the system - so the package isn't quite as 'complete' as you would imagine. Still, rumour has it that additional software may soon be available for Sound Expander, which may even make Sound Studio obsolete. Despite these minor criticisms, the Complete Music System is a real winner.

- · Price: £150 (without 64) £330 (with 64)

THE COMMODORE COMPLETE MUSIC SYSTEM

Jou've read our rave review of the Complete Music System, now's your chance to actually win one for yourself, in our great Synth Competition.

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one to offer our lucky winner. All you have to do is answer the three simple questions, and the tiebreaker, on the coupon below (or a copy of it) and send it to us not later than 15th May.

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- the soul classic, Tainted Love?

 a. Sigue Sigue Sputnik
 b. Soft Cell
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- c. Yazoo a. Commando b. The Force c. Solo Flight



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Putting pen to pixel

Wouldn't you rather use a pen to draw with your 64 than a joystick? Well you can - no, not with a ballpoint but a lightpen. Fred Reid checks out the two latest pens.

viding a separate utility on the tape. It also but doesn't say which ones are provided for. We tried it with a Commodore printer - successfully.

To sum up, while the software seems very easy to use, it lacks the degree of sophistication one would expect from a twenty-five quid package. Only one

thickness of line is offered for drawing, the 'Fill' function only fills with solid colour, and an 'oops' function would have been nice.

On the plus side, though, Dartdraw is very easy to use (the manual is well layed out and shows all the icons) and the icons certainly make the software more friendly. The pen is very easy to use, it's light, sensitive and the cable doesn't get in the way, although I can't help thinking it's rather fragile.

DART LIGHT PEN

This is the latest lightpen system to hit the 64, and offers a few innovations over it's instead of a light-sensitive diode in the tin of the pen, you get a bundle of fibre-optics!

The software also offers a few innovations, like icon-driven menus and

The pen is extremely light despite being a little bulky, although the tip is fairly fine. Because of the fibre-optic sensor in the tip, cable connecting the pen to the joystick optic cable that is lighter and more

The Dartdraw software on cassette contains three programs: the main drawing program, a utility to load a saved screen back into the computer independently of the main program, or dump it on your printer (check with your retailer on compatibility) and a tape-to-disk utility

The drawing software is very easy to use, all the menus and functions are icondriven (icons are symbols that graphically show the functions they control). All you do is touch the pen to the icon, and that function or menu is called. The obvious advantage here is the speed at which you can flip through the various options.

The first set of icons cover freehand copying, filling and text modes. A third menu offers Load and Save options not to mention the all-important 'Trash Can' (beware, there's no going back from this, and it is fairly easy to select it

Once you are in a drawing mode, you can enter the colour menu. Dartdraw only time, to avoid the mess you sometimes get when areas of different colour meet.

However, you can choose the three colours on your 'pallete' from any of the sixteen standard Commodore colours. Although this system is limiting, it does mean you can change the entire colour scheme very easily.

One of the exciting features of Dartdraw is it's ability to draw pentagons and hexagons or indeed any geometric figure of up





Dartdraw supports loading and saving of your drawings onto tape or disk by pro-

and icon-driven graphics software. allows you to place circles and ellipses on

TRO.JAN LIGHT PEN

The Trojan light pen was probably one of the years, but the software has been con-

The complete package is available together with a comprehensive (if brief) manual, for a shade under £20. Disk users send an extra £3.50 to Trojan for a copy on

The pen is only slightly larger than the average ballpoint, and looks and feels like a cable is just over three feet long, ter-

Lightpens were pretty popular when the Commodore 64 first came out, and then faded away without trace. Either the pens weren't sensitive enough or the drawing software was lousy. Like those early pens, the latest arrivals come complete with drawing software, an activity lightpens are particularly good

at. And that's simply because you're actually holding a pen to draw, admittedly not onto paper but straight onto the screen. That's very useful for freehand drawing or writing. Using a joystick, you're restricted to movement in one of eight directions. Of course, what you can achieve with lightpens depends

on the software that comes with it. The Dart lightpen may have flashier 'icon-driven' software but the Trojan pen just steals it on superior and more wide-ranging

minated with the standard joystick type plug. The cable is quite heavy, and tends to weight the pen down a little, but it's nothing you can't get used to.

The software is fancifully called Cadmaster Design), and loads from cassette in about two and a half minutes. After calibrating your pen against a white spot on the

screen, you get to the main menu. From this, you can select (using the lightpen, naturally) any of the functions 16 colours and select the Draw mode. The menu vanishes, leaving you with a plain

tip of your pen. Holding down the 'CTRL' key turns the 'ink' on and draws a line of the size and colour selected. Pressing 'O' always returns you to the menu.

Several types of line are available, including thick 'Quill', dotted and even brush or spray effects are possible. Geometric shapes such as rectangles, triangles and circles are well catered for. and can be filled with a solid colour, or one

Selecting the Text option allows you to of different styles, and the Erase function will always remove the last thing you drew from the screen. To erase selected areas,



Trojan lightpen - an old stalwart

1001						
201L1						

you use the background colour as the ink, and normal Draw or Brush modes.

The Copy function is useful for duplicating a part of a drawing on another part of the screen, and you can even functions allow you to store your masterpiece either on cassette or disk for later

designs from tape or disk, the package has no printer dump facility. By the way, you don't need to have Cadmaster in memory

Overall, the pen is sensitive, although it dislikes drawing over dark areas of the screen (naturally enough). The software isn't exactly elegant, but it functions extremely well (I particularly like the brush function)

You're still restricted by the limitations of the 64's graphics, but you should find it easy to produce quality graphics for your games or whatever.

- Trojan Lightpen
- Price: £19.95 (cass) Tel. 0792 205491
- Commodore 64/128 Price: £24.95 (cass/disk): Tel. 0502 513707

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his very own page.

has just delivered me a remarkable and revolutionary new Commodore 64 add-on. Ronnie ws nothing about computers but stayed while I unpacked it so I

could pay the excess stamps. It's called SOUID and it looks so marvellous. I've stopped work on my Squeezy bottle joystick, my bee-hive management program and explaining to young Trevor what 'press play on tape' means, to bring you this exclusive

SQUID stands for Super Quick User Interface Device. Although my test system was a preproduction model, and nothing really worked on it, I could easily appreciate that it could revolutionise personal computing as we know it today - I wish I could say that about my joystick.

SQUID is housed in an aluminum case, no larger than an average shoe box, and finished in attractive matt black industrial paint. Initially, I was rather my 64, as there was no instruction manual with it. This of course was because my SQUID was a review copy; it is a longestablished tradition that review copies of all hardware and software must be defective and minus instructions

File handling

So I rang the makers Sharksoft, and a very helpful lady told me that Gareth was at school at the moment, but she was his mother and could she help? I explained my difficulty, and she told me which bits to file off the casing so that the SOUID would fit my 64's cartridge port.

Having fitted the SQUID, I powered the computer up and was faced with a screenful of garbage. Another call to Gareth's

fact a scrambled password a little pointing finger around the copyright protector. The only screen, Sometimes the finger apway to get into the system was to view the screen through a pair of X-ray spectacles (not supplied), which would render the password legible so it could then be keyed in. However, if I pro-

my Squeezy bottle

mised not to let it generally be known, she would tell me the top-secret password override code ("GARETH").

SOUID is a window/icon/ mouse user-friendly front end. and will appeal to anybody wanting to make their Commodore 64 look as if it is really something rather more expensive

When you first fire the system p, you are confronted by a blank, rectangular area representing a desktop. Around the desk are various "icons", pictures resembling pieces of office furniture which reflect different parts of the computer.

For example, a waste paper asket is used to represent the disk filing system, a typewriter the instant coffee and sugar is

I noticed that there was no refrigerator, but Gareth's mother assured me that this sionally, although it always stopwould be available from version 1,79A onwards, and existing users would be issued with a free upgrade if they sent a solicitor's letter and a stamped addressed Jiffy Bag.

To select a particular function, mother revealed that this was in you use the arrow keys to move seen on any micro. Up to 256 bulletin board.

pears with an Elastoplast, probably after it got caught in the filing cabinet.

What's the point

As an alternative to the keyboard, it is possible to control the pointer with a form of "mouse". According to Gareth's mum, the SQUID version is not so much a mouse but a radiocontrolled gerbil. This neatly overcomes the problem of attaching the mouse to the main unit with a limited length of cable, and allows it to rove over a much larger area.

Indeed, gerbil-control permits Manual. operation of the computer from a different part of the house. Simply mark out a scaled-up desktop on the living room carpet with chalk, and you can manouevre your gerbil while watching Match of the Day on the telly. Unfortunately, I couldn't try the gerbil for myself as it is still under development, but it should be ready for ship-

ment within 28 days of any date you fancy. The "Electronic Office" concept is further enhanced by the desktop itself. There is an "In" tray, an "Out" tray, and a "Pending" tray. Various documents, represented by little squiggles. can be shuffled back and forth om one tray to another, just represents the printer, and a filing like in a real office. If desired, an cabinet indicates the place where "Auto Shuffle" option can be selected, which performs a random re-shuffle every two minutes. Also on the desk is a

telephone which rings occasped as I was moving the pointer

onto the receiver.

windows can be opened at any one time, and each can be zoomed or shrunk at the touch of a single key, although I never discovered which one.

Each window can be designated as single or double glazed, and there is a choice of anodised aluminium or uPVC frames. A "Rubber Banding" feature gives you a handy place to store your

rubber bands SQUID also has pull-down menus which work rather like roller blinds; you can pull them down, but they refuse to go up again. These will eventually be used for help screens, although on my copy they just displayed the 'See Instruction message:

Gareth's mum says it is ab solutely essential that you send

pull-down menus which work rather like roller blinds: down but they refuse to go up again

off for your SQUID at once enclosing a cheque or postal order for £299.00 including VAT. But she asked us not to publish the phone number as Gareth had lot of homework that night.

Club members will be delighted to hear that I've negotiated a deal with Gareth (his mum. actually) whereby you can buy SOUID for just £3.50 by sending Gareth your entire stamp collection - he's particularly interested in the British Mombum-

· Don't forget, you can catch Un-SOUID's multi-windowing facility cle lim and his Junior Gnome is one of the most advanced I have Ronger club on the Micro Gnome

There's a lot more you can do with your Commodore 64 and modem than merely dialling up the likes of Compunet and Micronet. Why not try calling another modem user directly? What? Yes, it's called user-to-user communications. It's useful and it can be good fun. Ken McMahon explains how it's done.

Your modem, even the Commodore one, is a versatile piece of equipment and is capable of doing a number of tasks in addition to that for which it was primarily intended.

One of the most useful, is user to user communications, commonly referred to as U-U. As the name implies, this involves communicating with your 64 directly to another 64 owner without a database such as Micronet or Compunet acting as an intermediary. To set up U-U comms vou'll need three things, apart from your modem. · Some Software is required which

enables the two modems at either end of the line to transmit and receive data in a suitable format. Y2 Computing have written a program which does the job and this was available free on Compunet for some time. If you

missed out on it you can obtain it direct from the company

The version available on Compunet (V1) was found to be unreliable over long distances due to the poor quality of BT's comms it might be worthwhile getting the latest version (V1.3) from Y2 anyhow.

· Two-way telephone adaptor: This modem to the phone socket at the same time. The're available from most telephone accessory shops and cost about

Someone to communicate with: This should be the least of your problems. A quick flit around Compunet or Micronet will provide you with enough U-U contacts to keep you busy at least until the next phonebill arrives. Once you are on line, what you do is

largely up to yourself and your remote cor-

The screen is divided into three windows, two of which are used for on-line chat. Anything typed in at your end appears both on your screen and on the other person's. The same applies to anything they type. This is of course, fairly useless far more efficiently by picking up the phone and chatting verbally.

The real power of the software is in it's ability to transfer files. Either sequential or File transfer is disc to disc, so no time is wasted storing the data in RAM and files of any length can be transmitted. The char

facility can be used during file transfer to make sure that everything is going according to plan

During a late night session with Commodore User's Fred Reid we managed to send each other about 100K of data in half an hour or so. That consisted of Basic and machine-code programs, and Superscript files. The programs ran and the only mistakes in the text files were Fred's lousy typing, so it seems the possibility of cor-

If you own a Commodore or another standard modem, the extra outlay involved benefits in terms of swapped programs and in something different make it well



· Gnome stays home: Readers of last month's Happy Hacker will recall the trepidation surrounding the future of one of the country's best loved 'independent' bulletin boards 'The Gnome At Home'. The good news is that Gnomic Sysop Glyn Phillips has received a positive response to his request for subscriptions and The Gnome's continued existence seems assured.

Non subscribers will still get a look in, but those paying the £4.50 quarterly registration fee will have priority

Paying customers will be issued with a personal ID and password and will have will be the opportunity to set up your own pages. One of the first of these will be a section devoted exclusively to the 64 and 128, so, if you haven't already done so, page The Gnome At Home on 01-888

· More Free MUD: There can't be many modemised Commodore users left another. The latest pastime of this nocturnal elite is the pursuit of the elusive free game of MUD.

There are currently three MUDs running in different parts of the country. Comis free if you can get through (not easy), and BT's MUD II

Until recently, MUD II was beset by so many problems that BT didn't have the heart to debit player's accounts. Most of the bugs have now been eradicated and

It didn't take long however, for a few naughty novices to discover that if they logged off a couple of minutes before their half hour was up they didn't get charged. It won't be very long before MUSE, the owners of MUD II, put this little anomaly right. In the meantime they are appealing to the honest, trustworthy nature of subscribers to do the decent thing.

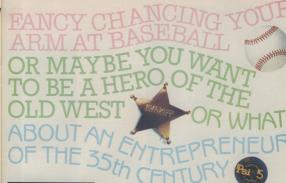
In the meantime, if you don't have the readies to fork out £20 for a MUD pack. vou can obtain a free ten minute sampler. If you are using the Commodore modem you will need Y2's Terminal software. number is A21880100300. In response to USERNAME type MUDGUEST, the password is PROSPECT and select option 2 from the menu.

. Less than a Miracle: Those of you who were tempted into buying Miracle Technology's 64 Multimodem may have felt a little let down by the company's claim that it was possible to set up your own BB with the modem. What is actually provided amounts to little more than a text version of an answering machine. Author's of the modem's software - you guessed it - Y2 Computing have just completed an update (C2) which includes the promised

Y2 Computing Ltd., Tarmay House, 146 St Albans Road Watford, Herts.

Miracle Technology (UK) Ltd.,

3 Parkview Gardens, White Hart Lane, Wood Green, 01-888 8894 01-888 8815 (voice)





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with a strip of supplies from the outside world. If you're ripe for a challenge and feel commortable in the role of Space Freighter Captain commortable in the role of Space Freighter Captain confliction of human and inhuman characters. Sollection of human and inhuman characters, a Sharpen your management skills and man the bridge. Take command with detailed graphics, realistic sound and the finest bridge internumentation the 38th Century has to offer.

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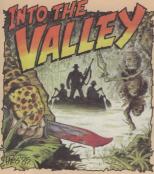
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BY KEITH CAMPBELL

This month the Valley has a guest reviewer in the form of Keith Campbell, Computer and Video Games magazine's master adventurer. Keith's had a sneak look at Rainbird's The Pawn and grappled with the Fantastic Four in another Questprohe adventure. He also can't put down Rebel Planet, the latest in the Fighting Fantasy series.

Rainbird Software

he Pawn is just about the most exciting thing to hit the produced Zork. As a text adventure, it arrived rather quietly some months ago, from Sinclair, on the OL. It is about to stage a second-coming, with graphics, and to deafening applause, on a wide range of computers, including the Amiga Beware hell's "sharp, shining scythes"

The objective of the game is Kronos, the evil magician, will not at all clear at the outset, but zoom up, comfortably seated on it is fairly obvious that trouble is his nifty stone hovercraft. It's brewing in the shape of you he is after, and he has a Farthington Real Ale. This proposition to make. Decline to product has displaced the accept it, and he will keep Kingdom of Kerovnia's strong pestering you, from time to time. malt whisky, along with its Continue to refuse it at your producers, the Roobikyoub peril! So, eager to please, off you dwarfs. King Erik's land is in a go in search of a Princess. state of ferment (so to speak), All adventures, however and it's citizens are becoming larger, have a finite map, and

Kerovnia, chances are THE CART EXCEPT THE You need to talk to "the Guru"

Adventure Adventur

one of the skills in designing it, (object) EXCEPT THE (another is to make the boundaries seem object) GET THE KEY. "Which disconcerting than coming up to key?" At this point you can a dead end in the middle of an open plain! The Pawn achieves OR THE PARTS is the southern edge of the

taken beyond this point." And before you lies: a dotted red line! throughout the game, makes it games forget come in for special speak to someone, but forget to address them in the correct mode, you are asked "Are you talking to yourself again?" If you This mischievious but

puzzling plot, is enhanced, if the team who wrote the game.

If you don't wish to accept



The Pawn begins in this lush, green va





rebellious, a situation of high come across Honest John, a salesman with a cart, you may As you wander the forest paths ask: HOW MUCH IS ALL ON



Adventure Adventure Adventure Advent

choose between METAL, bowl of rice, which, when METAL KEY, or, if it is in your examined, turns out to be Uncle pocket, THE ONE THAT IS Ben's Short Grain!

A feast for text adventurers. then. But the graphics on the

Amiga are destined to convert the puritans to a new faith! Pictures fit to grace your frontroom wall are to be found here. and they can be slid up and down the screen, so that the graphics/text boundary is left just where you want it. They can Not all locations have a

disk, so only 35 pictures accompany the 100 or so taken from the Atari ST version. the Amiga graphics, not quite

Most versions will be released





ut I'm being sucked down by something! I'm in a tar pit, and I see here HUMAN



Kronoff peers out from the title screen.

In fact, putting things in facilities! What you can do down these machines, don't miss The in the potting shed, will not only amaze you, it will earn you

There is text galore to read. and every detail seems to be covered, down to an innocent

the Amiga will set you back be in text-only, and a separate C128 version, may or may not things is one of the specialities of have graphics - that is yet to be the parser, and it can cope with decided. Non-graphics versions region of £15-£20. Graphics or adventurers, with these sort of text only, if you have one of Passer - at any price!

> Graphics **** Playability Puzzleability Overall ****

he's sucked under. "Blub! Thing Lord of the Rings. dies". Torch, can only stand by

Questprobe 3: The Fantastic Four

Alicia Masters in his castle, and she must be rescued.

nifty character, with the habit of two Marvel Comics superheroes.

Top: Meet super villain the Ringmaster, Above: The Torch

and returning to his post in a entry. Another deterrent provided by the resourceful giving cover to the castle's air-

Sharpen your wits, Scott's space. back in town! After more than a year with nothing new from though, for in this adventure you Scott Adams, Marvel greats The can take the role of either Thing, Thing and Human Torch have or Torch, and swap about at will. arrived to follow in the footsteps Although not the first adventure Pitching you in at the deep this feature, (but written first), it end, (literally) Thing is up to his requires far more interaction

neck in liquid tar, and sinking between the characters than is rapidly. Twenty false moves, and the case in Magician's Ball, and Neither character can achieve and watch, powerless, it seems, the rescue of Thing alone. Each

Yet saving Thing is not the other, with carefully timed evil Dr. Doom has imprisoned freeing Alicia is very much a team effort. And to hope to complete the game, you must The castle entrance is understand and master the efficiently guarded by Blob, a extraordinary powers of these

Two versions are available for

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Adventure Adventure Adventure



in graphics and commands. that explains what is happening would take a lot of playing both far more effectively than words! versions to find them. Once achieved, (and it will take a Fantastic Four is possibly a lot of hard thinking to get there) game you will look back on and

Graphic Adventure) produced in The cassette graphics are all are concentrated puzzles. But the USA, and a cassette, held in memory. Their believe me, while you are

the lack of animation. somewhat. Mainly shades of an adverb, in many cases it Castle. effective animation, including parser written by Roger Taylor, te one really spectacular sequence. There are differences, but it

the 64 - a 'Sagaplus' disk it will likely bring a smile of think: "That wasn't very big!"

Roll up! Roll up! The

Graphics	***
Playability	***
Puzzleability	***
Overall	***

To this he has added his own

Animation has been seen Tropos, Radix, and Halmuris, Gremlins, but it has been 'flickering' type movement. In

and Rebel Planet is the first longer are exits and object from the location text, but

By use of what Mike Woodroffe calls 'flannels', the screen display is stage-managed Taylor on a BBC micro, the text

complete game, using a cross

own judgement to the fate of random numbers!) In has come



The book of the game

have you cursing the author

zleability	*		
Overall	*		

GrA US Gold Adventure Soft Price: £14.95 disk

he book Rebel Planet (Puffin Books, £1.75) is one of the it, the Arcadians will be finished, game on a book is continuing to prove a popular format, but than most. Rather than a story, numbered paragraphs. You are each, as to what you would do the computer complex on response. next - almost like a computer

reached out to the distant take itself rather seriously, and planets. But the alien war-like injected some new and devious man's technology, created an

plans to destroy the Oueen

It falls to you to carry out this and looks refreshingly different herring in this game, but a dangerous mission, and under from most. background, and then read other. In off-duty moments, you Rebel Planet, there are sequences routed through the paragraphs discover the vital 9 digit binary is all held in memory, along with life . . by making decisions at the end of number that will admit you to the text, giving an immediate,

The year is 2453, and man has the original book, which tends to system, (see Adventure New

dventure Adventure Adventure Adventure

Our adventure chart has been attracting a lot of attention over the last few months - as the only dedicated adventure top ten it deserves to.

The good news is that the chart is now more professionally produced than ever before.

We asked Gallup - the people who produce our arcade games charts to give us a professionally produced top

The chart on the right is their first one and represents very good news for Melbourne House with three games in the top ten including Lord of the Rings at number one.

You can read the adventure top ten exclusively in Into the Valley every

23.7			
1	Lord of the Rings		
2	Mugsy's Revenge	Melbourne House	000
3	Worm in Paradise	Melbourne House	7
4	Asylum	Level 9	
5	Quest for the Holy Grail	US Gold	
6	Mind Shadow	Adventuresoft	
7	Red Moon	Activision	
8	Mordon's Quest	Level 9	
9		Melbourne House	
10	Terrormolinos	Melbourne House	0.00

■ ADVENTURE NEWS • ADVENTURE NEWS • ADVENTURE NEWS • ADVE

RIAN IS BAC



 Mosaic Publishing, the specialist adventure house in interactive fiction, have plans to release The Story of The Amulet, based on the children's classic by E. Nesbit. Written by the Ram (Valkyrie 17) Jam Corporation, this graphic adventure will allow the player to assume the role of one of four characters involved with the Psammead - a sand fairy who takes them back in history.

The sequel to Secret Diary of Adrian Mole, The Growing Pains Of. is due later on. As before, this will be written by Level 9, but will, promises Mosaic's Vicky Carne. feature more decisions and puzzles than its predecessor.

Last in the currently planned Mosaic catalogue, comes a computerised version of the age-old radio favourite, The Archers. In similar format to the Mole series, this also will be written by Level 9. Are they serious?

 Further news on Adventure International, It has ceased trading For Adventure International read US Gold, and Adventure Soft, Brian Howarth has left Mike Woodroffe's operation for a new career in business software, whilst Mike and his wife Trishia, have formed a new

company, Adventure Soft Ltd. Roger Taylor (of Denis Through the Drinking Glass tame) has joined them to produce a new enhanced Adventure System.

Adventure Soft will continue to convert Scott Adams adventures, including future Questprobes, and will be producing their own adventures, next planned release being Temple of Terror.

Hutchinson

off with two titles.

· Compunet are offering Quilled adventure games as downloadable Telesoftware. Offered in both disk and cassette versions, 'Quill Corner', as Compunet call it, kicks

The Staff of Law is described as a tough game, packed with puzzles suitable for seasoned adventurers. For those tired of saving the word, and seeking relaxation of a more intimate kind, Parisian Nights is said to offer some 'rather naughty problems'

· A whisper or two has been echoing around the Valley in the last couple of weeks.

Can't say who, or when, but Isaac Asimov's classic sci-fi varns look set to reach Commodore adventurers soon. So confident is the software house concerned that Its bid for the licence will be successful, development of the first game is already, unofficially, under

way. · "Any ideas for a licenced adventure scenario?" a person from a leading Adventure house asked us. I plucked a new TV series out of the blue. Alarm bells rang! "What have you heard?"

"Nothing!" I replied, "but it struck me as a good idea!" So good, it seems, that they already have someone working on a storyboard for the game! Drinkers of Cola may well smell a rat. More news soon.

· All parodies have a strong element of admiration in them and this is certainly the case with Bored of the Rings, the popular send-up originally released on the Spectrum. 64 owners can now have a laugh at Tolkien's expense as well - CRL have released the game - price

£7.95.



Computer

Here it is, our final installment of magical tricks and routines for your Commodore 64. Go on, type them in and get yourself a free Centronics interface, an auto-line number routine, horizontal scrolling and list freezing.

Easy Centronics Interface

Connecting your 64 to a Centronics printer can be tricky and expensive. Here's a way you can dry yourself, simply and cheaply, a link be also spell will shaw you be.

This magic spell will show you how to forge a link between the two devices. The task of also provided.

The Centrolia.

The Centronics interface consists of 8 data leads and 2 handshake leads (as far as we are concerned) as well as 1 ground connection, that are all contained in a 36 way plug

At the C64 end there is the User port which is a 24 way edge connector on the back of

All that you have to do to make them talk to each other is to make up a lead to con-

The following three diagrams show the Centronics socked as if appears at the rear of the printing. If the printing socked is appears at the rear of the printing. If the proof edge are the printing of the Code, (fig. 2) and a simple diagram show in girthe connections that need to be made between the two.



The driver software

Here's the software you'll need to drive your new DIY Centronics software interface.

The listing below contains a block of machine code which is loaded into memory starting at location 49152, when the program is RUN.

All you need to do to use the machine code is to type in the following command: sys 49152

After you have entered this command any characters that would normally be sent to the screen will also be sent out to the user port on the back of the C64 in Centronics format.

format.
The routine is designed to toggle, so all you have to do to switch the printer off again is to repeat the SYS 49152 you used to turn it

P. Cornes Staffordshire

10 FOR C = 49152 TO 49238 : READ B

20 POKE C.B: NEXT C 30 DATA 162,0,142,1,221,202,142 40 DATA 3,221,173,2,221,9,4

50 DATA 141,2,221,173,0,221,9 60 DATA 4,141,0,221,173,38,3 70 DATA 174,85,192,141,85,192,142 80 DATA 38,3,173,39,3,174,86

90 DATA 192,141,86,192,142,39,3 100 DATA 96,141,1,221,72,138,72 110 DATA 173,0,221,41,251,141,0 120 DATA 221,162,2,202,208,253,9

130 DATA 4,141.0,221,173,13,221 140 DATA 201,16,208,249,104,170,104 150 DATA 76,50,192

Centronics print routine

Auto line-number

Why bother typing in program line numbers when you can use a routine that does it automatically?

To use the program, type it in or load it and then type RUN and press Return. After this, all you have to do to call up a line number is to press the space bar with the cursor in col-

ium 1 on the screen.

Executing a break instruction will disable the routine. You can do this with SYS 2048. To resume from where you left off type SYS 49166. To start AUTO numbering from 10.

again type SYS 49152

M. Metcalf Tyne & Wear

- 1 Z=0 2 FOR X=49152 TO 49256
- 3 READ Y : Z = Z + Y : POKE X, Y 4 NEXT X 5 IF Z <> 13046 THEN PRINT "SORRY —
- ERROR IN DATA. PLEASE CHECK AGAIN.": END DATA 169,48,133,2,133,4,133,5
- 7 DATA 133,6,169,49,133,3,120,169 8 DATA 27,141,20,3,169,192,141,21 9 DATA 3,88
- 10 DATA 96,165,211,201,1,208,6,169 11 DATA 60,197,197,240,3,76,49,234 12 DATA 169,0,133,211,169,48,162,4
- 13 DATA 213,2,208,5,202,224,255,208 14 DATA 247,232,134,198,160,0,136,181
- 15 DATA 2,153,119,2,200,202,224,255 16 DATA 208,245,230,198,169,32,153,119
- 17 DATA 2,162,1,246,2,169,58,213 18 DATA 2,208,9,169,48,149,2,232
- 19 DATA 224,5,208,239,76,49,234 20 SYS 49152 21 NEW

Auto line number routine

List pause

The following is a machine code routine that loads at address 49452 and allows the function keys F1 and F3 to be used to control the rate of scrolling when listing a program.

The F1 key causes the listing to half for as long as you hold your finger on the key. The key F3 causes the program to list very slowly, one at a time while you hold it pressed.

Tyne & Wear

100 POKE 251,248
200 FOR A = 0 TO 22 : READ D
250 FOKE 49152 + A.D : NEXT A
300 FOKE 774,0 : POKE 775, 19
410 DATA 27, 165, 197, 201, 420, 250
410 DATA 27, 165, 197, 201, 420, 250
420 DATA 20, 15, 208, 8, 165, 251, 133
430 DATA 2, 165, 162, 48, 252, 104, 76
Slow Rising,

Advertiser

Ever wanted to make a whole line of text scroll across the screen? Well, now you can. The routine takes a block of text that is stored in the variable BS and scrolls this text slowly across the top line of the screen.

As you will see when you RUN this routine, the text can be any length up to the maximum string length of 255 characters.

The routine itself can easily be added to any of your own programs. Just copy lines 100 to 210 into your own program and suppy any text of your own in place of mine in lines 140 to 170.

Currently the program is written to repeat the test scrolling process over and over. In your own versions of it would change the line number specified in twould change the line number specified in the start of youtened to nine 206 to point to the start of youtened to nine 206 to point to the start of your program would RUN degram. And then your program would RUN degram to cree test had scrolled once across the Metalogy.

M. Metcalf Tyne & Wear

80 PRINT CHR\$(147);

90 FOR X = 0 TO 50 100 IF PEEK (X + 1344) = 43 THEN POKE

X+1344,42 110 IF PEEK (1863 – X) = 43 THEN POKE 1863 – X,42 120 NEXT X

130 SS\$ = " 140 B\$ = SS\$.

140 B\$ = SS\$ + " M.METCALF PRESENTS"
145 B\$ = B\$ + " - SCROLLING - FOR
COMMODORE"

150 B\$ = B\$ + "MAGIC. THIS PRGRAM CAN BE" 155 B\$ = B\$ + "INCORPORATED INTO

YOUR OWN"

160 B\$ = B\$ + "PROGRAMS WITH A FEW MODIFIC"

MODIFIC"

170 B\$ = B\$ + "ATIONS. HAPPY
PROGRAMMING."

180 D = 0 190 S = 1 : IF D = 2 THEN 90 200 PRINT CHR\$ (19); MID\$(BS,S,40) 202 FOR X = 0 TO 90 : NEXT X : S = S + 1 206 IF S = LEN(B\$) THEN D = 2 : GOTO 190

Text scrolling routing

MAKE R BREAK

THE AMIGA **ASSESSED**

Amiga is? So are we, so we've decided to cut through the hype and take a new look at the machine. What can it do in terms of sound and graphics, and what have the programmers achieved with it so far?

AMIGA GRAPHICS

'Amazing graphics' is the phrase most used when people talk about the Amiga. It will be a magnificent games machine, a machine for artists and designers. Remember, Commodore dragged in Andy

the Amiga was launched in the States. It's pretty obvious that the Amiga can do amazing things graphically. The question ly use them to the full. But let's first look at what makes the Amiga special in the

The Amiga has a maximum of 4,096 colours available to it but will display only 32 or 16 at a time, depending on the resolution. There's a choice of three screen resolutions: 320 by 200 (32 colours), 640 by 200 and the hi-res 640 by 400. Here you're restricted to 16 colours but you get graphics chips work independently of the

There's also a curious thing called the 'blitter', which allows large areas of screen memory to be moved and twiddled very quickly. That means images move on the screen faster than the eye can detect. For the technically minded, it claims to plot least, there's a facility for 'grabbing' video images.

So much for the specifications but are

One of the more committed Amiga million dollars on Amiga. Their Deluxe

standard graphics package, and a whole lot brush shapes, and you can take part of a drawing and define it as a brush, Images can be flipped round, rotated and stretched like a rubber band.

Some animation is possible, as well as airbrushing, zoom and magnify. And if you make a mistake, one click of the mouse undoes your last move - just one example

ing colours), but is disappointingly less variable than Deluxe Paint. It allows only 320 by 200 pixel screens and a smaller range of facilities - no fast fills, no There's probably more powerful packages

Going back to Electronic Arts, they've Video for the Amiga. The former lets you design things like posters, signs, calendards, etc (colour or b/w) and mix unlimited amounts of text and image on the same page.

More exciting, Deluxe Video, lets you connect an Amiga to a video source for the production of things like video slide shows, animations, commercials and business presentations. Video frames can All three 'Deluxe' packages should sell in



Precision Software has recently announced three new graphics packages for the Amiga, licensed from Californian based

package giving you the opportunity to comes on its own as a high res paint programme allowing airbrush, colour cycling

Aegis Draw is a full CAD package intended for home and professional use. It incorporates automatic scaling, near infinite zoom and grid constrained drawing.



ESTINE OPERATE AVAILABLE FOR

Electronic Arts, again, is converting some of its older titles for the Amiga. Through Ariolasoft in the UK, it should have Oneon-One, Seven Cities of Gold and Archon

developed exclusively for the Amiga. Left: Marble Madness from Electronic Arts - looks and plays better than the arcade version. Below: Activision's Hacker - disappointing conversion from

high by 64 terms. And don't expect to see anything really spectacular either. The

The company also has Skylox and Arcticfox already available in the States. Skyfox, though, is grapically not very good but nearer the mark. The classic Marble Madness is out soon too. It's superb - for devotees it's probably reason enough to

So what's happening in Britain on the agine folded, has a game called Brataccas, developed for he Sinclair OL. Once again, it's a case of adaptations not being able to

Other British games will include Fairlight from The Edge - we haven't is releasing a Starwars-type game called on the Atari ST, will be rewritten to take advantage of the Amiga's superior

Several more games will be available soon. Electronic Arts will release Adventure Constructor and Archon II. Commodore is marketing a racing game called (imaginatively) Driving Game, and the ing converted. Also SubLogic's range of flight simulators are ones to watch out for.

For the more serious minded, an frame grabber that lets you take a frame a drawing package. It will work only with

The Amiga has been around for quite a while in the States and, apart from Deluxe Paint, no really top-class graphics programs have yet appeared. The same goes for games, where what we've seen are mere conversions that generally don't make use of the Amiga's spectacular facilities. That all sounds very disappointing.

Perhaps it's too early to be critical about the range of software to date, since it takes programmers some time to get to know a new machine. The problem is that time isn't available. The Amiga must produce the goods now or fail forever.

Stuart Menges

Take a look at the Amiga's sound and music specifications and even on paper it looks like a pretty spectacular machine. It's got four-channel stereo sound output, it got a built-in speech synthesiser and it all

That lot's enough to make any musically

minded programmer want to dump the Commodore 64 with its noisy and bad

But the reality is different. The Amiga was dreamed up by the same people who made Atari the leaders in the video games. Their idea was to design the best games thought for the serious user.

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must improve yourself physically, mentally, morally, and financially in order to reach your goal: return to Earth or seek revenge on your abductors.

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Combine that with lots and lots of bugs that still aren't solved, and you've dampened down a lot of enthusiasm. So let's forget the hype and take a real look at what the Amiga can do for your ears

One of the Amiga's most touted musical sampled sounds. (The Amiga is not the first to be able to do this - the Macintosh. introduced in 1984, has very similar abilities). Sampling technology is very hot these days, and it was a smart move to include it.

The sound output is excellent - again, for a games machine. If you have access to first quality samples, you can get a much greater variety of sounds out of the Amiea

Talk Back

One of the most unusual features of the Amiga is its built-in speech capacity. Using the sample playback technology, the Amiga can be programmed, even in Basic to speak to you - all without extra soft-

ware or hardware. The speech software will even tell a pro-

gram that is using speech how wide a mouth opening is appropriate for a given sound. Watch for some great animation using that feature. You can pitch the voice wherever you want - the demo program from Amiga has male, female, and robot (monotone) voices.

The synthesized speech is clear enough but it sounds like the speaker has a strong accent from some unidentifiable Scandina-

programs take up a lot of memory. Both of these problems can be solved by simply buying extra hardware. MIDI interfaces usually cost \$80 or more; list price for a memory upgrade to 512K is \$200. If the price doesn't bother you, the Amiga, composition as soon as the proper software is available

Software is a problem - there isn't much available vet. Why? Because the hardware is still new and the documentation lousy, and because the operating system is still being changed so that it's hard to know how things will work by the time a product is on the market.

There are still lots of bugs to deal with, for example, the operating system I've worked with crashes if you fill up a disk. Some software is starting to emerge. Ac-

tivision has The Music Studio which allows you to compose on the screen and play back your composition with the built-in Amiga sounds or through a MIDIequipped synthesizer. The program won't let you enter your composition from a synthesizer keyboard, but it does allow the user to create his or her own sounds. Amateur musicians will probably find this program great fun; professional musi-

cians will probably find it too limiting. Write your own

The alternative, of course, is to write your own software. C is the language of choice for the Amiga, but Microsoft Basic, now being provided, does offer access to both the voice and sound capabilities.

For music, the SOUND and WAVE functions will allow you to set the frequencv. duration, volume, and voice number the sound.

You can also, at least in theory, use Basic to produce speech. However, it doesn't

seem to work as well as it should If you want to write software for the Amiga in C, be advised that the compiler and linker that Amiga provides won't even work without 512K of RAM, All in all, it's

the most frustrating system I've ever work-

The Verdict

How does the Amiga stack up against the competition? For a musician the Atari 520ST seems to be better value - twice the memory at half the cost, built-in MIDI and the same microprocessor with a higher clock rate. The Macintosh is more expensive and doesn't offer colour, but it is mostly de-bugged and has a fairly large software base.

Don't forget the Commodore 64/128; both offer a lot of power for the price, and there is some software out that really uses those "outdated" machines to their maximum. One thing most musicians lack is money, and the Amiga, with all of its fancy bells and whistles, looks a little pricey for the average musician.

Tom Jeffries



Amiga - just too expensive for the impoverished musician?

than you can from the 64's SID chip. But it's nowhere near professional quality. Although the technical specs for the

Amiga are reasonably good (8-bit resolu-28,867 samples per second, if you really want to know), I assume that the less-thanoptimum sounds produced by the Amiga result from other design compromises. Top quality filters, in particular, are ex-

Your reaction to the actual sounds produced by the Amiga will obviously depend on what you're used to. If you spend your days with a Vic-20, the Amiga will be heaven, if you expect sounds comparable will be disappointed.

I appreciate that the engineers had to make some compromises - after all, it is a general purpose computer. With all of the hype, however, I found the quality of sound to be a let-down. Don't buy the Amiga as a serious musical instrument unless you are very undemanding - no matter what the software packages say.

vian country. Several games available on the 64 have clearer speech. The problem, as I understand it, has to do with putting speech together from its basic units

What about other musical uses? The Amiga is certainly capable of use as a sequencer or music processor. The 640 by 400 graphics mode will be good for score writing, although there is a lot of flicker in that mode unless you use a special

The Amiga is a multi-tasking machine, which means that it gives the appearance of doing several things at once by switching from one to the next very quickly: this feature will certainly be used for non time-critical parts of musical programs.

There are at least two limitations for the Amiga. It doesn't have built-in MIDI ports like the Atari 520ST (MIDI allows your computer to run a synth or a drum machine), and it comes with "only" 256K of memory. Today 512K is considered necessary, partly because the high level languages (like C) that are used for many

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Although the System Guide you get with the 128 is streets ahead of the guides Commodore put out for the Vic and 64, it's still pretty short on practical programming help. So you'll still need to buy books to get the most out of your new machine. We've looked at two of the latest offerings.

OFFICIAL BOOK FOR THE COMMODORE 128

Ithough this is the 'official' guide to the 128, it's not published by Commodore but the American Sams Publishers. From it's impressive title and the fact that it was written by no less than three people, it sounds like being a pretty good buy. Well, you'd be wrong because it does little more than serve as a more user-friendly version of the 128 System Guide itself.

The book does have particularly clear and helpful sections on using the 128's immediately accessible music and graphics facilities, but in many ways it is frustratingly uneven.

and the control of th

On the other hand, there are fat and copiously illustrated thinkpiece chapters on subjects such as business software and exotic peripherals (including the stillborn 1572 fast dual drive) that will hold little interest for most readers.

Better than nothing in some respects, but The Official Book is dreadfully overpriced at £11.95. And it can hardly be worth buying given that Sams? Programmer's Guide, giving much more detailed info on the 128's operation will be out soon.

John Ransley



Official Book for the Commodore 128 by Waite, Lafore and Volpe Pitman Publishing Price: £11.50

COMMODORE 128 - STARTING BASIC

lentop's effort is altogether a different basket of chips and a considerably more appealing one. Those of us who have learnt Basic programming (and most of our bad habits) through trial and error messages will immediately warm to the plain-speaking and purposeful way in which author Scan Gray tackles his subject.

He makes particularly entertaining work of discovering how best to exploit the new Basic 7.0 commands in structured (that is, better flowing and easier-to-ready programming, Surprisingly, his use of the virtually redundant LET statement is rather more difficult to comprehend.

The book presents literally dozens of short routines as well as whole programs designed to show off every bit of magic in the 128's box of Basic conjuring tricks.

Thankfully, his examples are rather more imaginative than the exercises in evaluating the thirteenth decimal point of Pi or calculating how many litres of paint it would take to emulsion an aircraft hangar that many of its ancestors have featured.

The gentle but thorough introduction to Basic principles dealt with, Starting Basic goes on to describe in detail — again, with the help of many practical examples, so that you can key and see — the 128's more advanced programming features and ovcobulary including hieres, split screen and multicolour graphics, topdown programming, sound and music commands, handling sequential files, and so on.

Commodore 128: Starting Basic is a work of quality and care, and it's remarkably good value at the price. Nothing better is currently published and, of its kind, it would indeed be hard to improve upon.

John Ransley



Commodore 128 — Starting Basic by Sean Gray Glentop Publishers Price: £5.95

GET MORE FROM EASYSCRIPT

**** EASY SCRIPT ****

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(D) ISK OR (T) APE ? DII

PRINTER TYPE (0-4) ? 0

0-CBH

1-MX80

2-SPINHRITER

3-QUHEL/DIABLO/8300

One of the most popular word-processing packages for the Commodore 64 was — and still is — Precision Software's Easyscript. The package was written by Precision's Simon Trammer and it quickly became a standard by which 64 W/P packages were measured.

The vast user base behind the program has brought forth a flood of enquiries about it. So we've asked Simon to deal with some of the most common problems.

....

Using printers

To deal with the burning printer question first, Simon Tramner recommends that users should operate Easyscript with the simplest possible printer interface they can — as Easyscript itself can handle all the

complicated printer communications.

He says his biggest problem is printer interfaces which think that they are

simple ASCII code that he has sent and turn it into a confusing mix of ACII and CBM code.

If you don't already have a printer interface and plan to get one for your 64 to use with Easystrip, he suggests building your own. Using a simple 64 cartridge port socket on one end and a standard Centronics amphenol plug on the other, — it will cost around £10. Simon suggests you connect or get the cable connected up as

shown on Fig. 1.

A more detailed explanation of the user port and its connections can be found in Appendix I (Page 397) of the Commodore

'intelligent' and do things like converting 64 Programmer's Reference Guide. Pin Number & Type Centronics pin no A - Ground Pin 33 - ground Pin 10 - ACK Pin 2 — Data 1 Pin 3 — Data 2 Pin 4 — Data 3 C - PBO D _ PR4 E - PB2 F - PB3 Pin 5 — Data 4 Pin 6 — Data 5 Pin 7 — Data 6 H - PB4 K - PB6 Pin 8 - Data 7 L - PB7 M - PA2 N - GND Pin 16 - GND

If you buy such a cable commercially and it includes its own printer-driver software, he suggests that you don't use the software and Easyscript together. Keep the memory-resident driver software for listing your own Basic software.

If you do have problems running your printer with Easyscript. Tramer says it could well be because it's 'Off-line' when it should be 'On-line'. Although this sounds like a pretty fatuous problem, many people do get confused by the long printer 'time-out' on Easyscript and get to thinking the program has "huma-up", when -in fact — it will work fine if you either put the printer on-line or in it' RUNS/STOP.

Play a tune

There are a few mysteries hidden deep in the bowels of the Easyscript code which Simon revealed in our discussions. Did you know, for example, that pressing function key 1 and then hitting the Control Key and the $\underline{\ell}$ sign simultaneously will cause the 64 to play Land of Hope and Glory in three glorious voices?

lavetick control

Did you also know that Easyscript can be used with a joystick? Simon says that if you plug a joystick into Control Port 1, you can use it to move the cursor around on the screen in any direction.

Loading Basic

A little-known feature of Easyscript is that you can load Basic programs into it. There's two advantages to this; you get many more facilities using Easyscript's screen editor when you're writing and editing programs, and you can incorporate whole or part programs into any technical documents or articles you're writing.

How it's all done is explained in chapter 10 of the manual, but it doesn't say how you can do it the other way and read the file back to Basic. That's trickier, and according to Simon, you need to write a program which reads Easyscript sequential text files and "fools" the 64 into thinking that the information is coming from the

keyboard.
So you'd open the sequential file in Basic and organise the program such that it reads the file line by line clearing the screen with each line that's generated. The problem is that you also need to delete the program that's actually reading in your Easyscript file as a Basic program.

You can either do this by giving very high line numbers to the Easyscript reading file or by writing the program so that it deletes bits of itself as they are used.

ne ss Business Business Business Business

Avid programmers will be able to make a good stab at writing such a program.

Form letters

He also had some hints and tips for people doing form letters. Simon suggests that you be very careful about what you put in the form letter 'fill' file. If you don't put something in every name category you've set up, it will get 'confused'. Say for example, that you had a letter set-up with a four line address and somebody's name and then entered the following five-line address in the 'fill' file; John James

John James Commodore Mansions 123 Anywhere St. Maida Vale London W9 United Kingdom. The first letter to John James would be OK, but the next would begin with 'Dear Mr. United Kingdom' — because it would take the name from the first line, print the address using the four lines below it, then move down to the next line.

 Next month we'll be showing you how to make more of Vizastar.

Geof Wheelwright



PAPERCLIP 128 REVIVAL

Paperclip has long been one of the classic word-processing programs for the Commodore 64 — and if first impressions are anything to go by — the new enhanced version for the

Commodore 128 could gain the same reputation. In fact, you get both versions on the same disk.

Simply known as New Papercip, the 128 version of the program includes support for the 128's 80-column screen, extra memory and built-in in DOS wedge commands. It does, however, make use of the 'dongle-based' protection scheme which is of increasing interest to software houses, to be a considerable of the protection of the program work is program work; work.

The 64 and 128 versions of the software are on the same disks with the 64 version offering very welcome support for the Batteries-Included 80-column adaptor.

After you have DLOADed the 80-column version of the 128 program, you can switch with impunity between 80 and 40 columns (providing that line length

and 40 columns (providing that line length is set to 80 columns or more to start with). Instead of clogging the screen with should be in the manual anyway, Paper clip starts you off with a clear screen (sceep for the top off with a clear screen (sceep for the top maximum space for viewing what you have written. And with a full 80 columns to view, there's none of the annoying 'scrediacross' business where you can't even see

one whole sentence at a time.

The status line tells you where the cursor is (by line and character number), while the tab line will either indicate the tabs or be used for command queries. Loading and saving files in New

Paperclip requires a bit more care. With its ability to differentiate between upper and lower case filenames, you need to make sure that to retrieve the file 'dBase', for example, that you don't type it in as 'dbase'. The other major factor which impressed me about Paperclip was its flexibility in handling printers - the bane of any Commodore 64/128 word-processing package. Using what it calls a 'printer file', you can customise Paperclip to handle a huge variety of printers - and to use a range of interfaces. I found that this printer initialisation sequence was pretty comprehensive - although perhaps a little complex - and would cover the difficult business of getting out of your printer exactly what you put into it.

Advanced features

Among the more advanced features of the package which particularly impressed me was the ability to use numeric tabs and columns, so that laying-out a financial report becomes a relatively simple task. The package's column functions also allows for a degree of alphanumeric sorting, such that a column of names in the middle of a without using a database.

The wide-ranging power of New Paperclip is not limited to maths and form letters. Form letters are created by that letter to a 'variable data file'

Like Easyscript, you have a choice of outputs for your final work - either to a printer or to the screen. The output to screen on the 128's 80-column screen means that you can see the page - exactly as it will be printed out - page by page

There are a good deal many more features which make New Paperclip set to capture a substantial part of the word-processing market on the Commodore 128. Suffice it to say that this w/p is well worth a look for any serious C128 user.

- New Paperclip 128 Ariolasoft
 - Tel. 01-836 3411
- Price: £44.95 (disk only)

Geof Wheelwright

DOWNHILL SKI-WRITER

A new crop of cheap business packages fills this month's news section The first is from low-budget kings Mastertronic, who have imported Ski-Writer from Prentice Hall in the United States.

Mastertronic claims that "no other program comes close to Ski-Writer's speed or its elegant design that includes automatic wordwrap, automatic reformatting and on-screen underlining. Find, copy, replace and delete any amount of text; centre your headings; justify your paragraphs; change margins as you please."

The word is, however, that Ski-Writer is not a downhill racer – more of a tortoise-like apparition than anything else. Ski-Writer costs £9.95, and Mastertronic can be contacted on: 01-402 3316.

MASTER THE OFFICE

Gemini Marketing, meanwhile, has repackaged some of its previous software to bring two 'compilation' software packages together. The first is Office Master (£25 on tape and disk) which describes itself as a business package that includes 'database', stock control, cash book, final accounts, VAT file and word-processor.

Like one of those endless combinations of feastings on a Chinese takeaway menu, Gemini is also offering something it calls Office Mate (£12 on tape, £15 on disk), which offers a cut-down selection that includes 'database, mail-list, home accounts and word processor.' For more details, contact Gemini at Gemini House, Dinan Trading Estate,

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Good news for those of you thinking about buying a printer. Two new top-quality printers have just appeared that feature Commodore interface cartridges. **Bohdan Buciak** checks out both the Star NL-10 and the Citizen

characters per second, whilst NLQ produces 30 cps. In both cases print quality is very good, with NLQ mode producing fully formed and more stylish characters (especially using italics) – you probably won't find better at this price. One restriction, though, is that you can't set NLQ to print across a pitch other than 80 characters.

Installing paper, whether it's continuous or single sheet, is simple. But the allpurpose lever on the left is pretty stiff and not quite long enough. At least Star has done away with the typewiter style ribbons it used to employ and has gone for casy to fit cartridges instead — no more in-

ky lingers.

One gripe, though, is the perspex hood which must be in place or the printer just won't work (it touches a micro-switch when down). Since it's not even hinged, the temptation is to dispose of it

STAR NL-10 Printer

The NL-10 is the latest in cheap and speedy dot-matrix printers from Japanese manufactures Star. It features high speed, NLQ option and plug-in interface cartridge — and does it for around £280 (including cartridge). In fact, it's an upgrade to Star's earlier Commodore printer, the SG10C.

It looks sleek, clean-cut and robust, although a little deeper than is usual. At the front, there's a daunting punel of but-

(CLR) (HOME) (INST) (RVS)
The Star NL-10 prints across 80 cols in draft mode

The Star NL-10 prints across 96 cols in draft mode The Star NL-10 prints across 136 cols in draft mode

This is NLQ (near letter quality) mode
This is NLQ (near letter quality) mode printing italics

expanded text
This is an example of savassa printing

of the NL-10's more unique features.

Front panel

Star have sensibly tried to do away with the annoying use of DIP switches and control codes to get at the printer's facilities. So it's fitted a row of six touch-sensitive buttons at the front that let you set all the most useful print functions simply and easily.

So you get printing across 80, 96 and

136 columns, bold print, NLQ and NLQ in italics, paper feed, left and right margin setting, just be pressing combinations of buttons.

Control codes let you access the usual



Star NL-10: prints tru Commodore graphics but expands out

tons and lights. This control panel is one range of facilities: subscript, superscript,

condensed, enlarged and super enlarged characters, pica or elite pitch, business or graphics character set, underline, proportional print, italics, reverse, variable line spacing, dot graphics, customised characters and the like. There's also a 'macro' that lets you define a set of codes and call them up whenever you like.

A set of DIP switches is provided at the back (easily accessible) for setting things like device numbers (4 or 5), line feed and international character sets.

III USE

So much for facilities, what about speed? Draft mode gives you a nifty 120

somewhere in case you drop and break it (I dropped it and broke it). A bigger gripe is that the manual doesn't tell you about the micro-switch, so I spent the first half hour thinking the printer was faulty — probably

why I broke the hood.
Although the interface makes the NL-10 work like a true Commodore printer (the same OPEN and PRINT commands), there are a few differences. Primarily, the NL-10 prints only 'true' graphics faithfully; but it expands out all control code graphics — rather like our Easy Enter system. It will even print them in NLO

mode.
For example, you'll get (CLR) instead of the familiar heart-shape 'clear screen' graphic. That goes for colour, cursor and

COMMODORE USER 85

function key graphics too. It all sounds sensible and logical but may put purists off a little.

Star has obviously put a lot of con-

structive thought into the NL-10 and, to their credit, have solved the problems most new printer users face. In fact, your only worry with this printer is the price. It's certainly not expensive in terms of quality, but it may appear extravagant when you

consider it costs more than a 128 and a lot more than a 64. CITIZEN 120D

PRINTER

Like the Star NL-10, the new Citizen 120D printer features the latest printer innovations: cartridge interface, NLO option and speedy printing. But at around £235, it's that bit cheaper.

Although our test machine used the Centronics cartridge supplied as standard, a Commodore cartridge will be ready soon (around £25 extra), that prints the complete Commodore graphics set. Apart from the standard Centronics interface.

The 120D is very slim and small. Take the tractor feed off (that's standard, as well as roller feed) and it fits inside a briefcase with room to spare. That's pretty neat, but the overall impression is not one of sturdiness, neither does the small and flimsy print-head inspire confidence.

Like Star, Citizen has designed its cor trol panel to let you access a whole load of printer functions easily. Sadly, Citizen's This is normal print mode

This is Near Letter Quality mode This is emphasised NLO mode

This is an example of reduced text This is an example of reduced text in NLQ mode

And this is italics mode panel is not as well thought out and you'll have to send control codes, which doesn't display the option you've selected. You just press the rather confusing combination of buttons and hope for the best.

It takes some getting used to, but it does work rather well. So you can toggle NLO on and off and set pica, italic, emphasised or reduced print. Better still, the last three options also work in NLQ mode - so you could print, say, emphasised NLO.

The obligatory DIP switches are sensibly located on the interface cartridge and provide the usual settings for line-feed single/continuous paper and international character sets. There's also two switches for setting NLQ and condensed pitch

To access this printer's other facilities variable pitch, expanded print, proportional print and spacing, underline, overscore, reverse, subscripts and superscripts, justification, graphics

It's getting easier for Commodore owners to use today's new and high quality printers. That's because they're now designed to use a variety of interface cartridges. Simply choose the Commodore interface, plug it into the printer, and your Commodore micro is immediately compatible - no need for messy and unreliable interface adaptors.

But there are more benefits: these new-generation printers offer not only faster speeds in 'normal' mode but a higher quality NLQ (near letter quality) mode. This option produces fuller more solid characters for correspondence quality text.

But NLQ is always much slower than normal 'draft' mode because the print-head must pass across the line of text twice; the second pass fills in space between the dots, making each character look more solid

So Commodore users aren't being left out. With big-name companies like Star and Citizen offering Commodore interface cartridges for their products, many more companies are sure to follow suit.

It's worth remembering that such printers imitate Commodore models. So if you're using old wordprocessing software, like Easyscript, set up to output to a Commodore printer, you may not have commands for all the new functions (bold, condensed, enlarged, underline etc) since older Commodore printers couldn't produce them.

Citizen 120D: unassuming little printer packs a wealth of facilities

are compatible with Epson protocols. Like the Star, the 120D lets you string together a series of codes and issue them as one command

Print speed in normal mode is a nippy 120 characters per second, deteriorating to 25cps in NLQ mode. Although normal mode is rather thin and watery, NLQ mode is good and sharp. It gets better when printed in italics and becomes really

full and bold when set to emphasized. The trade-off, of course, is that you lose out considerably on speed. The consolation is that print quality is surprisingly good for a machine that doesn't look like

being an impressive performer One novel feature worth mentioning is that paper can be fed from the back or up from underneath the body of the printer, thereby saving space since you can stack paper underneath. Trouble is, Citizen don't provide any legs.

It's a pity that the 120D looks such an unassuming little printer because it packs in a lot of features, works very quickly and provides good quality print in NLO mode. The only cloud in all this sunshine is whether the machine can take the rough and tumble, and whether its flimsy looking print-head can manage a really heavy workload. Those are matters a review can never establish.

- Star NL-10 Printer Star Micronics Tel. 01-840 1800
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mmy!

Terminal Case

I purchased a Plus/4 recently but I am now going to upgrade to a 128. Is there any way I can utilize the Plus/4 with the 128? I have read you can have a main computer (a 128) and a "terminal" (a Plus/4). What does this mean and is it possible to do this with

these computers? Also what are the advantages of this? Thanks for a great Steve Terrington, Leeds.

When you read about "main computers" with terminals' this is normally referring to multi-user computers which allow several people to access the computer at the same time. The terminals are just keyboards and VDU screens, normally without any computing power of their own (dumb terminals). Although it is perfectly possible to connect a micro-computer to a large computer and make it act as the terminal, unless the communications software is very clever the microcomputer will still act just like a dumb terminal.

Both the 128 and the Plus/4 are designed as single-user computers and therefore the computer and terminal are in the same box. It is possible to attach the 2 computers together using the User-port, but you would have to write the software to drive the communications between them since there isn't any commercial software available. Doing this could allow you to use the Plus/4 as the 'terminal', reading the keyboard, validating the input etc, and passing data and 'commands' to the 128 (the computer) which then gets on with the graphics, sound or number crunching. However, I suspect that is a bit

too involved for you at present

and you will have to resign yourself to the fact that you will have 2 virtually incompatible computers, since software that runs on one will not run on the other (unless it uses BASIC 2.0 commands without any POKEs or PEEKs; highly unlikely in practice).

Funny Noises

When I load from disk, after a few seconds, I get a hammering sound and a rapid noise of clicks. This always happens, so I assume that it's just the way it loads. The noise also occurs with some disk errors.

My disk-drive always loads perfectly so I think there is nothing to worry about. But why does it make such a LOUD noise? It sounds very unhealthy! R. Self, Bromley.

The noise the drive makes is the protection on the disk being checked to ensure it is not a copy. The 'hammering' is the head drive pulley striking the 'stop' to position itself for track 1; it does this to ensure that the head is corectly positioned before it tries to find a particular track where an error has been placed. Whenever you initialise the drive it does the same thing. It certainly sounds bad, but it's how the drive was designed.

No Goodbyes

I own a Commodore 64 and 1541 disk-drive and would be grateful if you could help me with the following problem. Why does the computer always jump back to the start of a program after LOAD "X",8,1? (where X is the file name). Try this for example. 10 PRINT "HELLO"

20 LOAD "X", 8,1 30 PRINT "GOODBYE"

If you run it, assuming the file 'X' is not a BASIC file, say part of a game, then after loading you will cause a loop with "HELLO" being printed, but never "GOODBYE" — or whatever you want on LINE 30 as it is ignored! Is there any way to prevent this? C. Hacker, W. Yorkshire.

The Commodore has the ability to 'chain' programs by calling one program from another and then carrying on by running the new program in the Basic area. If you have loaded a re-locatable program using LOAD "X", 8, 1, then you are left with the original program in the Basic area which re-runs from the start again.

Since variables are not reset by this 'chaning' then you can get round this problem by: 5 Z = Z + 1: IF Z > 1 THEN GOTO 30 The first time you run the pro-gram Z=1, but the second time it runs, after loading "X", the pro-gram will jump to line 30 and continue. Alright?

Playback problem

Recently, I absentmindedly plugged in my C2N whilst my Commodore 64 was switched on. Since then a small fault has been evident which although not insurmountable causes a lot of frustration.

When I'm loading programs, in-stead of getting the PRESS PLAY ON TAPE message, the screen goes immediately to the background colour. Provided I press the play button on the tape recorder all programs load OK. Once loaded the Datasette stops as normal but when I then press the stop button on the C2N the cassette remains disabled and I am unable to either fast-forward or rewind the tape.

It seems that a fault in the computer is giving false information about the status of the cassette recorder. What can I do?

R. Howells, Pontypridd,

The cassette 'sense' line is connected directly to the 6510 CPU chip and it would appear that you have damaged the gate in the chip, leaving it in a permanent 'on' state. The indication to the computer is that the PLAY button is permanently pressed, hence your problems. I regret to say that the only way of solving this problem looks like replacing the 6510 chip in the computer, which if you do it yourself will cost around £23.

Alternatively, one of the many repair companies will be happy to relieve you of between £25 and £35 to do it for you. The chip can be obtained from Video Vault Ltd, Tel. 04574 66555 /67761, who can also quote for the repair or there are

other companies such as Mancomp Ltd, Tel. 061-244 1888/ 9888. Let this also be a warning to other users. DO NOT REMOVE OR ATTACH ANY DEVICES TO THE COM PUTER WITH THE POWER ON,

because it could cost you dearly. Running together

Please find enclosed two programs I have put together for my C16. I would be grateful if you could tell me how I could get them to run together, showing the graphics and sound together. Here are the two program listings: 10 GRAPHIC 1, 1: COLOUR 4, 1 20 S=INT (RND(1)*10+5)

30 FOR I=5 TO 40 40 CIRCLE 1, 160, 100, I, I,...

50 CIRCLE 1, 60, 100, I, I, 1, 120/4 60 C=INT (RND(1)*16+17 70 D=INT (RND(1)*7+1)

80 COLOUR I.C.D 90 NEXT I

100 GOTO 30

10 VOI2

20 R=INT(RND(0)*10) +1 30 FOR X=1 TO R 40 SOUND 2.345+30*X.10

50 NEXT Y 60 FOR X = R TO 1 STEP + 1

70 SOUND 2.700+30*X. 10

80 NEXT X

90 T=INT(RND(0)*100) +30 100 SOUND 2,780, T

Hope you can help me. N.W. Edwards, Cardiff.

You are trying to do two independant things simultaneously, which the average computer finds rather difficult (at least, until the Amiga gets here!). The only way to real combine these 2 programs is to drive the music in machine-code through the use of 'interrupts', but I assume that wasn't really the answer you were looking for. If you want 'random' music at the same time as your graphics program then you will have to accept a more simple sound, otherwise the combined program would be so slow as to be useless.

Try adding the following lines to your first program: 5 VOL2: D = 7

35 SOUND 2, (50°D) + 30° (1/5), 8 65 SOUND 2,345-30° (C-6), 8 These will give you a 'random' element to the sound, yet still allow the graphics to be drawn at a reasonable speed. If you really want 'games-type' sound at exactly the same time as fast graphics then you will have to learn machine-code first.

Tune a day

I own a C16 and I am not bad at programming, but I am no good at making my computer play tunes. So could you please help me by writing a short tune in your magazine to give me some idea how to make my computer play tunes, and me to learn how to write music

programs. J. Cornish, Plymouth.

The easiest way of playing tunes on the C16 is to create the music as a series of data statements showing the voice, note and duration. This then allows you to have 2 part harmony by using voices 1 and 2 at the same

The following short program lays the first few bars of a wellknown tune, but lines 10-50 apply whatever the tune. The data statements are in

groups of three; the voice (1 is the bass, 2 is the melody), the note (values are given on page 173 of the user manual) and finally the duration (seconds/60; 15 = quarter note). If you give Voice 1 a

duration of 240, you can then play 4 notes on Voice 2 each with a duration of 60 while Voice 1 is still sounding. You won't get to sound like Duran Duran on a C16, but even they had to start somewhere!

10 VOL2 20 READ S 30 IF S<0 THEN END 35 READ N.T

40 SOUND S.N.T 50 GOTO 20

50 GOTO 20 60 DATA 2,685, 15, 1, 169, 240, 2, 739, 60, 2, 770, 60, 2, 798, 60, 2, 810, 30, 2, 798, 15, 2, 739,15

70 DATA 1, 213, 120, 2, 770, 30, 2, 810, 30, 2, 798, 60, 1, 453, 120, 2, 798, 90, -1

Loading tricks

What is the significance of the statement LOAD "#" 8, 1? this loads nonsense into the Basic area. Also, I have read that typing LOAD "\$\$", 8 loads in merely the header of the disk, and the blocks free, instead of the whole directory. If you type NEW, though, you can get it back from memory by typing LOAD "#", 8, 1 again. How come? Combinations of the characters "", "#" and 'S' also provide many strange results. H. Rennison, Torquay.

LOAD "#",8,1, does absolutely nothing useful. Since # is the symbol normally associated with a disk buffer in the disk's RAM area it appears to be loading the contents of the first buffer. As for the "\$\$"; if you haven't already realised it, you can load parts of a disk directory

using 'wildcards'. LOAD''\$:C''',8 for example, would give you a directory listing of all the files whose first letter was C. Using "\$\$" just means that you have not given the disk any in-formation (it ignores the second \$ sign) so no filenames appear; you still get the header and free blocks lines though.

Take a tip from us, Tommy's s are the best. When it my's your man. Go on rite to him: Tomm modore User, 30-32

Games Plus ames Plus Games



h there you are. Couldn't keep away could you? Pull up a chair and I'll tell you some tales from the software world. Are you nfortably? Then I'll begin. . April Fool's Day jokes were pretty poor this year I thought. Polaris fer

ries. Ken Livingstone's wardrobe legacy and proposals to shift the earth's axis all fell flat. None fell more Amstrad's share price. It fell by flat in the game industry than the news of a company called HardSoft who were about to explode onto the market with a hatch of sidesolitting games with titles like Aids Attack, Seal Cull and Motorway Maniac The man behind such a convincing wind-up turned out to be none other than Commodore Horizontal's editor Chris Jenkins. Weak Chris, weak. . .

accident prone games house around. Big boss David Ward managed to dislocate his shoulder whilst re-enacting a scene from Winter Games on his skiing holiday. I never realised such afflictions could be catching though, until I heard that his companion who turned out to be Centresoft boss Anne Brown's sister broke her ankle as

I'm glad you reminded me about Anne Brown because a hotshotophile who shall remain nameless told me that the sales manager of a large retail chain refers to US Gold's Legend of the Amazon Women as The Legend of Anne Brown. What does he mean. . .?

I was amused to receive a hostile letter from the Porsche car manufacturers complaining of misuse of their company's trademarks. How can they be so mean after all this business. has done for them? The closest I have after their racing day last year.



This man is Rick Wakeman. We thought we'd better tell you. He was one of the pre '76 old muso generation who went around writing songs about King Arthur that lasted for a whole album. He's scratching his head because even he can't understand why Commodore asked him to help promote their Music Expansion Kit. Bring back Rolf Harris and Tony Hart we say.

I was even more amused to see the effect buying Sinclair had on

Cartoon fans take note that Mei bourne House have their Asterix game out in June.

Virgin boss and SDP youth policy coordinator Nick Alexander was spotted recently releasing 650 balloons Ocean are undoubtedly the most outside the Houses of Parliament. An

what it was for

Last month saw out that most prestigious of ceremonies, those Oscars of the software world, the Computer and Video Games Golden Joystick Awards The lavish affair took place on one

of Virgin's riverboats that cruise up and down the Thames holding parties for debs and sloanes. So what was a cowboy industry like ours doing on it? When I boarded that vessel it resembled something out of those old riverboat movies, there were that many hustlers and gamblers on

The clink clink that could be heard on the embankments was not the sound of glasses being raised in merriment, but the sound of dozens of sours chiming on the decks. The last time I saw so many pairs of cowboy boots was Nashville

Compering the ghastly affair was come to one myself was the dinky toy jolly Jools Holland wearing one of model Ariolasoft presented to me those loud spivvy suits he has made so fashionable whilst presenting



sacrifices his life to save hundreds of passengers from a watery death as thousands panicked at the prospect of Soft Aid hero Rod Cousens' ego sending the SS Golden Joysticks to the bottom

The meal and ceremonies went off disappointingly without a scrap of bad hehaviour from anyone I was unset game, is released on the 64. Best Softbecause I was forced to sit next to inware House was Melbourne House. dustry eccentric Mel Croucher who Best game of the year was Way of the kept stopping the conversation to talk Exploding Fist into a portable tape recorder. So un-Afterwards I went around presen professional. My other table compating a few awards of my own. The Hot-

they were. The coveted awards went to the following lucky recipients: Best Strategy Game: Theatre Europe: Best Adventure: Red Moon, Best Arcade Game of the Year: Commando, Best Original Game: Little Computer People; Best Programmer was Steven ly the Annual Hotshots Ron Atkinson Crow a man condemned to obscurity until Starquake, his Bubble Bus Gold.

Channel Four's The Tube. C&VG

editor Marshall Metcalle presided

over the affair.

shot Golden Slug Award for Latest nions were so dull I've forgotten who Ever Game went to US Gold for Tigers in the Snow - first advertised in the press as long ago as 1984. Orpheus ran away with my Lead Balloon Award for The Young Ones. The Golden Cockroach for Bug of the Year went to Melbourne House's Gyroscope. Final-Golden Cheque Book went to U.S.

Paula Byrne and Geoff Heath of Melbourne House show off the awards for Game of the Year and Software House of the Year. Jools Holland shows off his shiny suit. Yeurgh!





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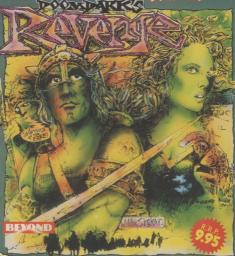
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