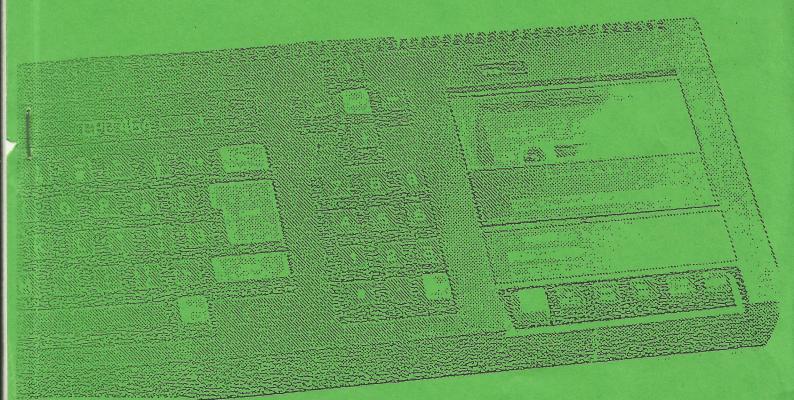


USER

THE BI-MONTHLY MAGAZINE
OF THE
UNITED AMSTRAD USER GROUP





EXECUTIVE EDITOR ... Don Snowd 85 Woolston Road Butlocks Heach SOUTHAMPTON Hants. 503.5FM

EDITORIAL ASSISTANTS .. John Stanford and Alan Stead

EDITORS

ADVENTURE SOFTWARE Terry Roberts Woodlands Churth Road MARRIETSHAM Kent ME17.1AP

CHARLES SAGOT INCIDENTAL PROPERTY.

GAMES SOFTWARE
Clive Bentham
SI Longcales Road
LINCO.**
L

TECHNICAL QUERTES Stephen Brotennaire 23 Hillside Crescent BARNETBY-LE-WOLD 5.Humberside DN38.5MQ (tele: 0552-680536)

PROGRAPHING LANGUAGES

Andrew Cope 9 Church Drive 8hos-on-Ses COLNYN SAY Clwyd LL28, 4LL

STELLIS TO SEE

Stophen Gennard
13 Poplar Way
Moss Pit
STAFFORD
Staffs.ST17.PLJ

COMMUNICATIONS

(to be appointed)

CPC USER PRINTING AND DISTRIBUTION
Tony Saker
25 Uplands Crescent
FARDAM
Hants. Pol6.73Y
(tale: 0329-234291)

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THE STATE OF THE S CPC USER welcomes the submission of listings and articles for publication.

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UNITED AMSTRAD USER GROUP

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STOP PRESS

Due to the need to limit the size of each edition of CPC USER, some material has been held over for the next edition.

Issue 13 will include MORE ON PASCAL by Steve Gennard, AN INTRODUCTION TO C LANGUAGE by Andrew Cope, EPROM PROGRAMMING by Rodney Tipping, the SCROLLER a type-in by John Blessing and reviews of NIRVANA, STAR LC-10, QUALITAS and WORD PERFECT - plus, of course, all the regular features.

EDITORIAL

The UAUG was founded two years ago and this is the twelth edition of the Group's magazine. It would seem appropriate to mark this anniversary in some way and to this end an Index has been prepared to help members to find information published in Issues 1 to 12. The Index has been incorporated in this edition of CPC USER.

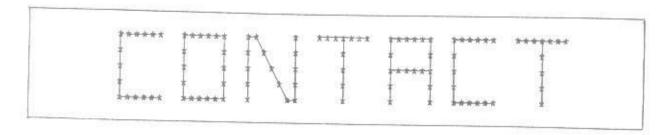
This edition also marks my departure. The time has come for me to stand down and make way for new blood and new ideas.

Fourteen months have passed by and seven editions of CPC USER, since I was asked to take on the task of Executive Editor. In those fourteen months we've seen many changes and have overcome more than a few difficulties. But out of it all, CPC USER has emerged as the magazine for all CPC users and, with it, membership of the UAUG has steadily increased.

I extend a warm 'Thank You' to my editorial colleagues and with Seasonal Good Wishes I bid you all farewell -

Don Snoad





EDITED BY: Gary Carter, 1 Magnolia Close, Fareham, Hants, PO14 1PX

PEN PAL REQUESTS

+++ none received +++

REQUESTS FOR HELP

BRIAN WATSON 39 High Street, Sutton, Ely, Cambs, CB6 2RA.

I am tracing my family history and would be pleased to hear from anyone using a CPC + peripherals to record/sort information.

SUE ILSLEY 26 Linden Ave, Prestbury, Cheltenham, Glos, GL52 3DP.

I have an Amstrad LP-1 light pen and a DMP2160 printer. There is a printer facility with the light pen software, however it does not seem to like the DMP2160. Does anyone know of a simple way to make them compatible, or a printer dump which would allow me to print my light pen drawings.

OFFERS OF HELP

+++ none received +++

INFORMATION REGARDING THE CONTACT SECTION

- Any member may place a small notice in this section either Requesting Pen Pals, Requesting Help or Offering Help.
- Entries under the first two headings are removed after 1 issue. Entries under the 'Offers of Help' are removed on the request of the author.
- All notices must be 5 lines or less in length. The Authors Name, Address and/or Telephone number must be included in the notice.
- 4. All notices are published at the Contact Editors discretion.



THE PRICE OF FREE SOFTWARE !

The latest catalogue of public domain software offered by Seltec of Staines includes SCRIVENER which, even though Seltec claim to have "carefully tested and documented", is erroneously described by Seltec as "a full featured word processor with comprehensive text editing features".

Seltec's price for SCRIVENER on a 5 1/4-inch disk is £8 plus £2 p & p plus VAT; a total of £11.50! If you order it on a 3 or 3%-inch disk, the price is £13.80!!

As readers will have learned from CPC USER, I stown LO, SCHYENER's in onthing more than data merge program which can be used only in conjunction with existing text fill produced by an independent word processor. It is not a stand-alone program. Mys it that so many suppliers misrepresent the purpose and capability of SCHYENER, 2

TRANSFERRING TAPES TO DISKS ...

A new tape-to-disk transfer program called BANKSAND III is on offer to UMUG members. It has been developed for use on any of the CPC computers and the CPC computers and the CPC computers and the CPC computers are the CPC computers and the CPC computers and the CPC computers are the CPC

ALTERNATIVE CP/M OPERATING SYSTEM ...

An alternative CP/M operating system is available exclusively to UNUS members. The system, called CENTROX, was developed by UNUS member Andrew Cope, who has very kindly donated his work to the UNUS PD Library and can be obtained free of charge from OBBlessing. A review of CENTROX was published in CPC USER, Issue 11.

Graduate Software's CPM PLUS on ROMs is reviewed by David Cutts in this Issue.

WITHDRAWAL OF PRODUCT SUPPORT ...

We have learned that Caxton Software Ltd have stopped publishing software for Amstrad computers (that's ALL Amstrad computers, not just the CPCs) and are unable to provide product support other than to advise users of alternative sources of help. For information, phone 01-251-49494.

We called this number twice and left messages requesting help on a Caxton product; so far there's been no response whatever. So much for Caxton's marketing promise of unlimited product support.

SPECTRUM TO AMSTRAD CONVERSIONS ...

A few months ago we were asked whether we knew of a program that will enable Spectrum-coded programs to be run on the Amstrad CPC computers. Our enguiries whighlighted an article on this very subject which was published in the July 1986 edition of Amstrad Computer 'User; the article includes the necessary listings and there is some additional information on page 11 of the September '56 edition

MEMBERSHIP STATISTICS ...

Membership of the UAUG stands at about 220; it would have been 247 but 27 members have failed to renew their subscriptions.

UAUG RUNNING COSTS ...

At the last meeting of the UAUB Management Committee, it was decided that in order to remain solvent the annual subscription must be increased. At that time it was agreed that the new rate would be 15 per year per member; but it seems there is disagreement in the Camp and the matter is up for review at the next meeting, Unfortunately, the next meeting is not until November 16, which will be used to be upon the committee of the

The cost of back issues of CPC USER is also increased; with effect from January 1st, back issues will cost 75p to members or £1.25 to non-members. Both prices include postage.

ALL CHANGE ...

There's been a re-shuffle of Officers on the UAUG Executive Committee. Details are shown on the inside rear cover of this edition.

MATERIAL FOR PUBLICATION ...

Members are cordially asked to note that correspondence and advertisements intended for publication in CPC USER should be sent to the new Joint Executive Editors at:
4 High Malk, Fareham, Hants, POIS.685 and not to Don Snoad who retires from the post on December 1st.

MEMBERS OF THE UAUG COMMITTEES WISH TO EXTEND TO ALL MEMBERS THEIR GOOD WISHES FOR A VERY HAPPY CHRISTMAS AND A SUCCESSFUL NEW YEAR

GAMES SOFTWARE

GAMES SOFTWARE UPDATE

by Clive Bentham

Well this month has been very disappointing indeed with regard to contributions from members for the games section. Not one single person wrote in, despite the pleas for help from other people in the last issue. So to those of you who asked for help i can only apologise for those that couldn't be bothered and the lack of answers.

I'm convinced more members of the UAUG play games than their silence suggests so can any one come up with a reason for the reluctance to take part and join in ?

NEWS FROM DOMARK

After two years and massive sales figures worldwide, Domark has announced the imminent UK and European launch of its brand new entertainment package based on the world's most famous board game Trivial Persuit.

A NEW BEGINNING is a wholly new game, centered around an entirely new game playing concept for Horn Abbotts' classic family board game. Though still incorporating the addictive question and answer format. Domark has devoted a great deal of time and resource to ensure that its follow up to Trivial Pursuit did not merely present the discerning customer with simply another batch of questions.

Instead, an enthralling game called A NEW BEGINNING has been assembled, which will take you through many galaxies in a bid to reach the planet of Genus II.

Mark Strachan, Domarks Joint Managing Director, states that to simply recreate a question and answer game would have been too easy. "We feel that our interpretation of A NEW BEGINNING will give the customer not only the undoubted appeal of the Trivial Pursuit concept, but also a wholly new and excellent game. Couple these two together and you have a superb combination, and a game that will again appeal to the whole family."

In A New Beginning, you and your family have to travel through space to a far off star system. Centuries of pollution have left the world a victim of the "greenhouse effect", so you set off in your lazer driven rockets to the far off constellation which contains the planet Genus II. However it has been agreed that only those with a superior knowledge of Genus Irivia will be allowed onto Genus II.

Each player first has to prove his worth for the trip in the sophisticated lazer rockets. Admission is granted by answering a trivial question correctly. Each player then assumes the role of a character, or live token, within the game.

Then Blast Offi Venturing through space you will encounter many stars and planets. You have to land at six and collect six luxury household items before making your way finally to Genus II and the final test of your Genus Trivia knowledge. Though each

planet with an item you need is in a different galaxy, each galaxy has some 50 planets. There is no way of telling which planet is which, though there are sometimes clues in planetary names to help you discern between the six different catagories of Entertainment, History, Science, Geography, Art & Literature and Sports & Leisure.

A New Beginning is programmed by Oxford Digital, the company responsible for the original Trivial Pursuit. The game is said to include a whole host of original and sensitive programming ideas, and it all comes to a head for a superb final screen for the eventual winner of New Beginning.

The game should be available by the time you read this and will be released on all major computer formats. At the moment though, no price tag is announced.

Following major successes with Star Wars and more recently The Empire Strikes Back, Domark confirm the Autumn launch of Return of the Jedi.

Due for release in October. Return of the Jedi completes the trilogy of Star Wars films brought to the home computer by Domark.

The game picks up the action of the movie where the rebel forces begin their dangerous attack against the Imperial Deathstar.

In the first game of battle you control Princess Leia on her speederbike through the forest of Endor. But, be warned, as she is persued tirelessly by the Imperial Stormtroopers also on speederbikes.

As you make your way to the Ewoks village, they help your progress by springing traps - but make sure you do not get destroyed by mistake.

Once you have left Leia safely at the Ewok village, you move to another part of the forest to control Chewbacca's Scout Walker as he manouvers it to a bunker. There Han Solo is waiting to deactivate the shields protecting the Death Star. Control Chewbacca as he avoids logs, and blasts his way through wave after wave of logs and rocks.

During waves two and three, the split wave effect occurs. You control not only Chewbacca in the Scout Walker, but also Lando Calrissian as he flies the Millenium Falcon. At crucial points in the wave, the action will switch away from the forest of Endor to Lando in the skies around the Death Star.

As Chewbacca fights his way to the bunker, so Lando nears the Death Star, fighting off a manic assault from the Imperial TIE FIGHTERS. Imperial Star Cruisers and shuttles. Lando blasts as many as he can as he nears the Death Star. Once Chewbacca reaches the bunker, Solo blows it, thus deactivating the shield around the Death Star.

GAMESOSOFTW

The Millenium Falcon enters the Death Star. Travelling down a dangerous tube towards the centre reactor. He is still persued by fighters, and has to be constantly on the look out for energy gates, falling pipes and fire from turrets in the tube.

Blast the reactor, and then turnaround in a mad dash to clear the Death Star as it blows. Return of the Jedi will be launched on most computer formats but as yet no price tag has been set.

ELITE GO BUDGET

In recent times there has been a marked increase in the budget charts of re-issued full price games, and Elite have decided to use the depth and strength of their back catalogue to break into this sector of the market

Elite see this move as opening up further marketing opportunities and as a natural extension to its existing business. However, Managing Director, Brian Wilcox, points out that Elite's core business will still be the development of high quality premiun priced games software.

"I think it's very important that our customers and consumers understand right from the outset that they can continue to expect quality software from Elite, and that it will not be available as budget software for a period of some three years. This will still allow the new range to release a multi-format game every month, and I believe our customers will appreciate that we have kept faith with them in refusing to devalue our product too quickly".

The budget range will be marked under the brand name of "ENCORE" the theme being to call upon the hits from the illustrious ELITE back-catalogue to give a repeat performance.

ENCORE will be releasing their games at £1.99 and the range will feature a host of well known titles such as Airwolf and as Airwolf and titles such as Commando as well Battleships. Games new Battleships. Games on the Encore label should be available in all the major multiple stores as well as independent distributors, so you should have no trouble obtaining the game of your choice.

IKARI WARRIORS POKE

This unusual poke was sent in by Jamie Verity from Wisbech in Cambs and relates to the Elite version of Ikari Warriors. It gives you up to 60 lives and lets you put up to 6 names on the high score chart whatever your score may be.

- ' IKARI WARRIORS POKE by J. VERITY
- 2 SYMBOL AFTER 256:MODE 0:BORDER 0 3 FOR t=0 to 15:READ J:1NK t.J:NEXT 4 DATA 13.6.3.15.16.0.1.2.14.26.24.9.12.21, 22,19
- 5 LOAD "Iscreen.bin":OPENOUT "d":MEMORY 4799:CLOSEOUT:LOAD "!warriors"
- 6 FOR a=30749 TO 30755:READ a\$:POKE a,VAL (a\$):NEXT a: ' 1st NAME 7 FOR b=30764 TO 30770:READ b\$:POKE b,VAL (b\$):NEXT b: ' 2nd NAME
- 8 FOR c=30779 TO 30785:READ c5:POKE c.VAL (c5):NEXT c: 3rd NAME
- 9 FOR d=30794 TO 30800:READ dS:POKE d.VAL (d\$):NEXT d: 4th NAME

- 10 FOR e=30809 TO 30815:READ e\$:POKE e.VAL
- (e\$):NEXT e: '5th NAME

 11 FOR f=30824 TO 30330:READ F\$:POKE f,VAL
 (f\$):NEXT f: '6th NAME

 12 DATA 74,65,77,73,69,255,255:' Spells
 J A M I E
- 13 DATA x,x,x,x,x,x,x,x
- 14 DATA x.x.x.x.x.x
- 15 DATA x.x.x.x.x.x
- 16 DATA x,x,x,x,x,x,x
- 17 DATA x,x,x,x,x,x,x 18 POKE 28331,n
- 19 CALL -48

A few words of explanation are needed here. A few words or explanation are needed here. The Data statements shown in the above program, lines 12 to 17 are examples only, but the real statements that you use must contain the ASCII code number for each letter of the name that you want to appear in the high score chart.

There can be up to 7 letters in the name and they must be capital letters. There can be a max of six names. In line 12 the Data statement shown spells the name JANIE, and as you can see in the examples, if the name does not make up 7 letters then the remainder must be made up to 7 by using the figures 255.

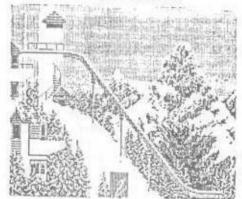
If you don't want six names on the chart then delete the unwanted lines and their associated data statements from the program.

In line 18, n=The number of lives required up to a max of 60.

*********** GAMES COMPETION

Two pieces of software are on offer as the Two pieces of surtware are on offer as the prize in this competition - EVERY SECOND COUNTS, the latest family TV quiz game from Domark, (see Issue 10 of CPC USER for a full review) and RED SCORPION, an exciting and absorbing space combat simulation from Quicksilver.

Just to get every one in the right mood for some Winter weather the picture below is a screen print from a well known Amstrad game and the idea is that to win the prizes you must name the game and software house from which it came, and state three activities in the game including the one shown.



Write your answers on a postcard or letter (he says doubtingly) it dosn't matter, and send them to me, Games Editor, at the send them to me, Games Editor address on the inside front cover.

Closing date for entries is Friday 16th December 1988 and the winner will receive the prize hopefully in time for Xmas. (A nice gift idea maybe ?).



BANKRAIDING FOR HUMANS

by Neil MacDougall

Regular readers of Bonzo News (Nemesis) will know that most months contain a section devoted my program to "Bankraid". Bankraid is associated with tape to disc transfer, but has several other uses which have not exploited.

The latest version is Bankraid III. It resides in the extra 64k found on 6128s or expanded 464s and 664s. When the time is right, two simple instructions will bring BANKRAID to life. All memory is stored intact (only the first normal 64k) and the registers, screen mode and colours are stored. The user can then either save what is in memory to disc or alter almost all aspects of the screen (size, mode, colours etc) or examine memory.

The procedure for tape-to-disc transfer is to find a point in the tape loader which is before the game is executed but after the game has loaded. This point is "patched" so that a jump into BANKRAID occurs. It's a bit like a hardware device, but the switch has to be put in manually ! So that beginners aren't put off, several automatic routines are provided which find the point and do the rest.

The above summarises the transfer process, but what else ? Hacking is also supported, and it is often the case that programs do weird things to your Amstrad which make it impossible to look at the memory contents. By using BANKRAID, the weird effects can be overcome and memory can be looked at, at your leisure or saved out and then examined using a dissassembler. You'll need a knowledge of machine code for this activity !

Other activities include debugging code, code development etc.

BANKRAID - A bit of tech info

Each article (if there are any more) will include a bit on the operation of BANKRAID.

When you are using BANKRAID and use the QUIT option, the computer is reset. Even so, the extra 64k still contains some of the code from the program that was in memory when BANKRAID was called. It is laid out as follows :

Bank 0 = 0 to &3fff Bank 2 = &8000 to &bfff Bank 3 = &c000 to &ffff

Each bank is selected by the basic 'OUT &7F00,Bank+&c4'. This puts the memory shown above into the 16k slot &4000 to

Below is a small list of programs that can transfer via BANKRAID. Most are "odd" games which use loaders which are normally difficult to deal with.

M=Manual (P=Patch address Key: L=Locate address) A=Auto S=Speed K=Key T=Tronic C=Cassys *=See Bonzo news

2112 AD A MAG MAX S AVENGER A NEXOR DUMMY RUN A RAMPAGE * EAGLES NEST * STAINLESS STEEL A EQUINOX A STORMBRINGER FOOTBALL OF YEAR MP=#204D L=#300 STRIKE!! FUTURE KNIGHT A THING ON A SPRING A GAMEOVER S WEST BANK A JACK NIPPER A WILLOW PATTERN K KRACKOUT

MP=#18E L=#30

Happy Bankraiding - Let me know your problems/tips !



THE Z80 SERIES MICROPROCESSOR

by Steve Gennard

This discussion of the Z80 microprocessor may be a little too technical for some users, but do not despair if you do not understand all the terms mentioned. The article is intented to appeal to the more technically able readers.

The Z80 microprocessor was designed to be software compatible with the Intel 8080. The Intel 8080 was the microprocessor used in all the early CP/M machines. This is the main reason why the Z80 was used as the successor to the 8080; while the Z80 is software compatible with the Intel 8080 it runs at a much greater speed.

The Z80 microprocessor series is made up of three versions of the chip. Each version is used under different conditions, but all are software compatible with each other.

The three microprocessors in the series are the Z80A, Z80B and the CMOS Z80. Both the Z80A and the CMOS Z80 have identical clock speeds of 4 MHz ($\pm 0.1\%$), while the Z80B has an increased clock speed of 6 MHz ($\pm 0.15\%$). Although the CPU executes all instructions at this clock speed this is not the virtual clock speed on the Amstrad computers. Because other functions

are undertaken such as system interrupts, a decrease of about 15% occurs in virtual clock.

The main difference between the Z80A, Z80B and the CMOS Z80 is that the Z80A and Z80B needs +5 volts to do a complete memory refresh, whereas the CMOS Z80 needs only 15mA.

The main advantage the Z80 has over most microprocessors is that it can cope with a complete 64k memory refresh in a fraction of the use of any second, without additional hardware. In fact, the refresh rate is easily comparable with any 8-bit or microprocessor. This is one of the reasons why the Amstrad has 42k free and with high resolution screen. The other reason that the operating system is paged into the Z80s main memory in blocks of 8 or 16k pages.

The instruction set of the Z80 has 158 instructions; many of these are identical to that found on the Intel 8080, although the names have changed. It has 17 internal registers, including 2 real index registers (IX,IY) and 3 modes of fast interrupt services. Altogether, this makes the Z80 an excellent microprocessor suited to the Amstrad machines.

PROGRAMMING

THE PASCAL PROGRAMMING LANGUAGE

by Andrew Cope

Hello! I'm the second programming languages editor, the one that doesn't introduce himself! I'm a fairly recently joined member of the UAUG and, as you probably know from the last Issue, I've contributed to the PD library.

My articles will offer one view of some of the more common alternatives to programming in Basic. Anyone who wishes to program seriously will need to move away from Basic sooner or later and there are quite a few alternatives.

For this Issue, I'll take a look at Pascal since most programmers would recommend it as the next logical step after mastering Basic.

Pascal differs from Basic in several ways. The most obvious difference is that Pascal programs are compiled rather than interpreted. For those of you who don't know what that means, I'll try to clarify things a bit.

Computers can only understand very simple languages, even Basic is too complex for the CPU to deal with. This means that whenever you tell the computer to do something, it has to translate your request into a form it can understand.

With Basic, this translation occurs EVERY TIME a command is given to the machine. This means that the computer spends a great deal of time simply translating your instructions. A typical Basic interpreter can spend as much as 90% of its time translating the instructions compared with only 10% actually doing what you want it to do!

Obviously, if the translation had already been done, then the computer would be a lot faster. This is the theory behind compilers. The compiler reads through the text you have typed and, hopefully, translates it into something the computer can handle. Once the translation has been completed, it need never be done again.

This may seem like the answer to all your problems, but there's a hitch! If something goes wrong with your Basic program, you simply alter the text and re-run the program. This isn't possible if you used a compiler, because the original text is unlikely to be available - only a machine code program.

This means that you must re-load a text editor, then load in your text, alter it, re-compile it and try again. After a few runs round this circle you soon get frustrated. This situation does, however, have one advantage; it encourages you to develop your program BEFORE you start typing. This generally leads to a tidier program with fewer bugs.

THE PASCAL STANDARD

As compiled languages go, Pascal is very readable. Due to the strict rules employed,

you either write a structured program or a program that doesn't work! Unfortunately, this can create its own difficulties. Advanced programmers may often find that Pascal is restricting. When I used it at Plymouth Polytechnic, I found that I kept having to revise my program to overcome the limitations imposed by the compiler.

One example of this is in the use of different data types. Basic has only three types of data. Pascal has a great many more, but conversion between them is not automatic. In Basic, you can place the contents of an INTEGER variable directly into a REAL variable. In Pascal, most compilers would reject this since the variables are of a different type. The compatibility between Basic and Pascal is summarised in the following table, which shows the most common data types:

Data Type	Description	Language
Integer	Number in the range 32767 to -32768	Both
Real	Floating point number often in the range 1.7E38 to -1.7E-38	Both
String	Array of characters	Both
Boolean	Holds a TRUE/FALSE flag	Pascal
"Definable"	Definable data type	Pasca1
Set	Allows manipulation of a group of items according to mathe- matical SET THEORY	Pascal
Record	Allows grouping of several data types; works in much the same way as the records in a database	Pascal

One point worth noting is that very few "serious" languages support the STRING data type. Although I have stated that Pascal supports it, I am really stretching a point as there are no STRING functions. You have to treat a string as an array of single characters and write your own functions most of the time.

Another difference between Pascal and Basic is that all Basic commands tend to be "built in" to the interpreter. With compilers, only the commands which affect program flow (the CONTROL STATEMENTS) are built in. Commands which actually "do" things are separate procedures (which are similar to subroutines) and must be defined somewhere before you can use them. Luckily, the person who wrote the compiler will have provided



Pascal is a block oriented language, meaning that the program code can be thought of as being divided into discrete blocks; here is an example:

PROGRAM DRAFT (INPUT, OUTPUT)

VAR loop, bottles : INTEGER

FOR loop:=10 DOWNTO 1 DO BEGIN writeln(loop, Green bottles, sitting on a wall'): writeln(loop, 'Green bottles, just about to fall'); writeln('If one green bottle should accidentally fall'); writein('There'll be',loop-1, 'Green bottles, sitting on the wall'); writeIn END END

The keywords (those built in to the compiler) are shown in upper case. As you can see, the commands which do all the work are in lower case, indicating that they are NOT built into the compiler.

The code between BEGIN and END is the block mentioned above. In effect, a block of code can be thought of as a single "compound" statement. The FOR loop in fact is thought of as only repeating one command.

The first line of the program may not be required for some compilers. It tells the compiler what the program is called and that both input and output will be required. In practice, I could have left out the INPUT directive since the program doesn't take input from anywhere.

The next line simply defines two integer variables. Unlike Locomotive Basic, Pascal requires that all variables be announced BEFORE they are first referenced.

The first BEGIN command defines the start of the program; again, a single command is permissible here, but I doubt whether it would serve much purpose.

The FOR statement should be fairly obvious for those who understand Basic, as it works in much the same way in both languages (in fact, I've yet to find a language that doesn't recognise a FOR command).

The writeln() procedure sends the list of items to the VDU then follows the characters with a carriage return. It can be thought of as being the same as a PRINT statement.

Note that semi-colons are used to separate commands, but are not needed before an END statement. Also note that the last character in the source program must be a dot.

Pascal is best suited to writing medium-sized programs which make few demands on the hardware. It isn't really suited to games writing unless you get a slightly non-standard compiler, or take the time to create your own procedures with an assembler (if the compiler will allow this).

The most recent version of Pascal is called MODULA-2 and is a great improvement. Most of

definitions for some useful procedures. the limitations of Pascal have been overcome, the limitations of Pascal have been overcome, since the programmer is now given more control at a lower level. I am currently considering moving away from C as a first language and turning to Modula-2 instead. One improvement that I like is the removal of the BEGIN keyword.

CPC VERSIONS

Unfortunately, I know of only three Pascal compilers for the CPC computers. The first is a tutorial program that used to be available from Amsoft. Whether it's still available and what features it supports I don't know. There what features it supports I don't know. There is also a very poor ROM compiler which was reviewed in Amstrad Computer User some time ago and, from what the reviewer said, is best forgotten. There is a CP/M version of Pascal available from the UAUG PD Library, but it doesn't produce stand-alone Z80 machine code and doesn't support all the standard features. The technical information and standard of documentation supplied with it is standard of documentation supplied with it is extremely good and well worth having if you want to learn about Pascal.

The only other Pascal I know of is Pascal-80 from HiSoft. They have kindly sent me details of this version and other languages they of this version and other languages they produce for the CPC. Pascal-80 appears to be a full implementation of the language and it would also appear that the resulting object code is both compact and fast. The compiler comes complete with a text editor and provides a complete development system. This usually means that swapping between compiler and editor is made as painless as possible.

I'm not quite sure if I've read the blurb correctly, but it seems that CP/M users can produce graphics using the GSX system, whilst Amsdos users seem to be offered only turtle graphics. Fortunately, Pascal-80 allows the insertion of machine code directly into the program, which means that if you know what you are doing you have full control over the computer.

Modula-2 is also available from HiSoft. I know that it is a full implementation of the language and that it appears to require CP/M Plus and two disk drives. What I don't know is what is supplied in the way of graphics commands; however, if you have the necessary hardware, I would suggest getting in touch with HiSoft and having a chat with them.

Contacts:

Amsoft 091-510-8787

HiSoft 0525-718181 for general enquiries, or 0525-718271 to place an order; address is The Old School, Greenfield, Bedford MK45.5DE

Prices: Pascal-80 £49.95; FTL Modula-2 £69.95

Further information:

Book entitled: A Student's Guide to Programming in Pascal by Laurence v. Atkinson published by John Wiley & Sons. ISBN No. is 0 471 10402 7.

In the next article, I'll be dealing with the C language.

PROGRAMMING

SNIPPETS OF WISDOM

from John Packham

In response to Wg.Cdr.Cutts request for CALL addresses, here are a few that he may find useful.

CALL &BB18 Waits for a keypress CALL &BB03 Resets the keyboard CALL &BB3F Repeat off CALL &BC6E Tape deck on Tape deck off CALL &BC71 CALL O Complete system reset CALL &BB9F,0 Opaque mode CALL &BB9F Normal printing CALL &BCO2 Reset all inks to default colours

CALL &BCA7 Turn off all sounds

Also, if anyone wants a POKE or two (no jokes please !), how about these:

POKE &B4E8,255 Shift lock on POKE &B4E8,0 Shift lock off POKE &B4E7,255 Caps lock on POKE &B4E7,0 Caps lock off POKE &B280,4 Cursor on POKE &B280,2 Cursor on POKE &B280,various Alters paper POKE &B290,various Alters pen POKE &BDEE,201 Escape off

I hope these prove to be useful.

For anyone out there who cannot seem to fathom out the codes 0-31 in Appendix III of the 464 User Manual, I've discovered some here for you, either by chance or from various other books.

For instance......CHR\$(31)+CHR\$(x)+CHR\$(y) Locates cursor (x and y are numbers in the required range for a LOCATE command).

Also......CHR $\{(28)+CHR\{(z)+CHR\{(x)+CHR\{(y)\}\}\}$ Sets pen to required colour $\{z=pen number, x and y are the colour codes\}$.

Also......CHR\$(26)+CHR\$(w)+CHR\$(z)+CHR\$(y)
+CHR\$(z). Defines window parameters (w = left edge, x = right edge, y = top and z = bottom).

Also.....CHR\$(24) Inverts text and paper.

Also....CHR\$(22)+CHR\$(x) Transparent option. If x = 0 then printing is done normally, but if x = 1 then anything printed on the screen is in transparent mode. There's more !

CHR\$(15)+CHR\$(x) Selects pen (x = pen number)

CHR\$(14)+CHR\$(x) Selects paper (x = paper number)

CHR\$(11) Moves cursor up one line

CHR\$(10) Moves cursor down one line

CHR\$(9) Moves cursor right one column

CHR\$(8) Moves cursor left one column

CHR\$(7) Beeps

CHR\$(4)+CHR\$(x) Sets mode (x = 0, 1 or 2)

I've found that these are handy to know because, although you can simply use the normal Basic commands, there may be a time when you need to do these sort of things from DATA statements and, by using CHR\$ codes, it's a simple matter of reading them into a String and acting upon them.

You may have some information on screen and, at a certain point in the program, you may want to delete a certain line or lines while the program is running. Instead of doing it the way I used to, by LOCATING to a certain line then printing so many spaces, quite simply all you need to do is to locate the cursor to the beginning of the line required at PRINT CHR\$(18).

If you have a WINDOW on the screen and wish to clear part of it, then LOCATE the cursor and PRINT CHR\$(19); this will clear from the top of the window to the line at which the cursor is positioned. Alternatively, use PRINT CHR\$(20) which will clear from the cursor line to the bottom edge of the window.

The rest of the codes I haven't yet worked out. Maybe someone can help me ?

Another facility that isn't too clear in the manual is the use of hardware volume envelopes. If you find it too difficult to set up your own envelopes, the 464 has eight envelopes all ready and waiting to be used.

The syntax is ENV x,=y,z (x = envelope number, y is the hardware envelope number 8 to 15 and z is the TIME PERIOD and not the TONE).

With the hardware envelope, do NOT forget the = sign. A TIME PERIOD of around 1000 is best for you to hear what is happening but, as with everything else, you can learn a lot by experimenting.

If you need a text dump routine and don't



10 FOR z=&BF00 to &BF06 :read a\$:POKE z,val ("&"+a\$):NEXT 20 DATA cd,60,88,32,07,8F,C9

These two lines just poke in some code to read which character is under the cursor; it even remains if you reset the machine with CTRL+SHIFT+ESC.

The part of your program where you require the dump, you need to use a FOR-NEXT loop:

1000 FOR y=1 to yy: REM yy=No of lines require printing

1010 FOR x=1 to xx: REM xx=No of columns depending on mode 1020 LOCATE x,y:CALL &BF00 1030 char=PEEK(&BF07)

1040 IF x⇔num THEN PRINT CHR\$(char);:GOTO 1060: REM num=20, 40 or 80 depending

1050 PRINT CHR\$(char)

1060 NEXT x,y

This is a little bit slower than a good machine code dump, but it still does the trick and you don't have to reserve any memory for it.

Afterthought:

The text dump routine should, of course, contain a PRINT#8 instruction, instead of the normal PRINT statement - Sorry.

It seems to me that the User Manual (I'm talking of the CPC464) is not at all clear regarding several commands; by way of example, consider the commands that deal with defining functions.

The manual clearly states that DEF FN(x)=x*x will work quite easily (and it does too !) but what is not made clear is the number of variables permitted for use in a function. For instance...

DEF FN(x,y)=x*y..... works DK DEF FN(x,y,z)=x*y*z..... also works DK DEF FN(w,x,y,z)=x*y/z+COS(w).. also works OK

In fact, practically any number of variables can be used within a function. Also the variables used in a function are only DUMMY ones to enable you to set it up. When used within a program, they can be replaced by other variables; for example, suppose you had two variables a & b and you had already defined a function to multiply two numbers together as in sample 2 above - the x and y variables are simply replaced by a & b.... eg, PRINT FN(a,b).

The variable names used in setting up the function can also be used in the rest of the program without the computer getting its chips in a twist.

For anyone who does a lot of editing within a program, try typing a line full of anything you like, take the cursor back to

wish to use up valuable memory with some specific machine code dump routine, then try this:

the beginning of the line, then type some more. Nothing unusual about that, you may say, but now do the same again but before you do, hold down the CTRL key and press TAB. Now you're in overwrite mode, just like most word processors !

> Anyone want faster Basic circles ? The simple answer is to first put all the SIN and COS values of a circle into two arrays. For instance...

> Near the beginning of your program enter a line such as:

> DIM si(360),co(360):FOR num=1 to 360:si(num) =SIN(num):co(num)=COS(num):NEXT

> It is important to realise that the <num>
> variable used must NOT be an integer
> variable like num%. If you were to set it
> as such, then the COS and SIN functions would not work correctly.

Put your circle drawing routine into a subroutine like so ...

1000 REM CIRCLE 1010 FOR num=1 to 360 1020 origin x,y 1030 DRAWR radius%*si(num), radius%*co(num),col% 1040 NEXT 1050 RETURN

The radius and colour are set up before entering the sub-routine. Variables x and y are the centre of the circle. If you want to see the difference in speed, change line 1030 to:

1030 DRAWR radius%*SIN(num), radius*COS(num).col%

You could even change the DRAWR command to a PLOTR command.

If you ever need to store a screenfull of information, whether graphics or text, and you don't want to type in a large machine code routine to do it, then it's quite simple. First of all you need to reserve memory and, because the only safe place to store another screen is at address \$4000, the first line of your program should be MEMORY &3FFF. Whenever you need to store the screen, use CALL &8CO6,&40; to recall it, use CALL &BCO6,&CO. Pretty useful, don't you agree ?

If anyone wants assistance with either GAC or GENESIS adventure creators, then please let me know. Also, if there are any members who live within a bus-ride distance of the Thornhill district of Southampton, and are willing to teach me all they know about machine code, I'd appreciate hearing from them. I understand principles, mnemonics, etc. but cannot fathom out how to do anything useful with it. I understand 98% of Basic but would like to progress further. The Assemblers I own are: Code Machine by Picturesque, A.D.A.M. and Dr Watsons Assembly Language Course.

If anyone needs help with Amstrad Basic, I'd be glad to oblige provided all initial enquiries are accompanied by an SAE.

ADVENTURE SOFTWAR

THE ADVENTURE PAGE

by Terry Roberts

Some of you may have noticed the absence of an adventure page in the last Issue (No. 11) of CPC USER, which was due to my being away for most of August in connection with my job. I had also hoped for some views on what you wanted to see in these pages but I only had one letter on this together with a letter from Mr. A. Lee with hints and tips for NOVA and HAUNTED HOUSE. Bob Adams, who writes an Amstrad column for Adventure Probe magazine, felt that reviews and hints/solutions are important but pointed out that as CPC USER is only bimonthly it is difficult to include up to date news. I also looked through the completed questionaires and many of you felt that there was too much on adventures in the magazine. With this in mind I have decided to include an adventure piece as an occasional contribution to CPC USER rather than a regular spot. For the few that need a more regular fix, can I urge you to subscribe to ADVENTURE PROBE (if you don't already do so!) since this is one of the last remaining specialist adventure mags remaining. Copies are only £1.25 each month and the address is Mandy Rodrigues, 24, Maes y Cwm, Llandudno, Gwynedd LL30 1JE.

TOPOLOGIKA SOFTWARE OFFER

Some months ago Brian Kerslake of TOPOLOGIKA offered UAUG members discount games but discount games but not one member took up the offer ! Not to be put off, Brian has now improved his offer and we can get 20% discount AND he will give a further 10% to UAUG to help club finances. The software was described in Issue of CPC USER and the prices are as follows:

Kingdom of Hamil UAUG Countdown to Doom Philosophers Quest Acheton	price £8.00 £8.00 £8.00 £8.00
Return to Doom (NEW RELEASE)	£10.35
Giant Killer (for 9-14 yr olds)	£12 00

To purchase any of the above please send a cheque payable to TOPOLOGIKA to ME at my address and I will forward orders to

GIANT KILLER

by Peter Killworth

Amough GIANT KULLER is based on the tale of Branstalk, it's definitely not a game for the irring-lives

In this best-selling mathematics adventure you stan - as Jack or Jackie with the ineccapable tapk of going to market to over a pro-Decovering this to be impossible, you are left with no other option but to go explaining. Only by linding the Gaznt, the tressures - and by solving all the puzzles (calculator work, sopilar) investigations, co-ordinates, topplogy, tesserutions, mapwork, etc. - can you win the maximum score of 250 points.

Programmed by the author of such v known Casso adventure games as Countrown to Coom. Castle of Rindles, etc. GIANT NILER is squarely aimed at the 9-14 age range, although many older children and soults are linding the game charming, and the puzzles a really worthwhile challenge.



BBC/Master £18.40 55 Master Compact £20.70 Spectrum +3, Americal CPC (disc: £14.95 Americal PCs (and comparible) £14.95



INTERACTIVE FICTION

First published by Aconsch, these classic games from Britain's besidenture writers are now available for many other machines. If yo mosted them the first time round, you can't allord to miss them now!

Kingdom of Hamil by Jonethan Partington

by one-frain participation. Might, blackest night. Bones weary after days and nights in the saddle, you seek shelter in a strange, dereiled chaoet, and diseare of the place you seek. Hamil, A. Kingdom of green pastures and scenning loundains, of somery and romance, of strange but loyed beings, a land that once was yours. Have you the hence - and the sheer intelligence - to try to win it back? Game size: Moderate, with many unusual puzzles flating: Standard.

Countdown to Doom

Options the seasure-sich pranel of Doomswangara, desers, jungles, glaciers, swamps and prashed spaceships of previous adventurers just visible through the swining clouds, your ship faces ? sudden and savage attack, and crash-lands on Dooms Carr you cannibalise snough spares to repair it before Doom's highly corrosive almostypes and spaces a sed you? Game size Medium, with an SF flavour Racing Standard.

Philosopher's Guest by Peter Killworth

New Extended Version

by Peter Killworth Waving that old magic wand that you found in the junk shop off Market Street was a big mistake. The atmosphere turned inside out, taking you with it and doing the same to you. And when it swined back again the quarter old shop - and the stange old shopkeeper - were nowhere to be seen. Game side: Compect, but packed with unexpected wists Rating. Advanced.

ACHETON

by Jan Thackray, David Seal and Jonathan Partington

by Joh Indicking, David Seal and Johashan Partington.
"We hereby challenge the greatest adventurers in the Known Universal to uncover the dread secrets of our ream. Directs of heroic valour will be reduced, and feats of intellect that Newton and Einstein would have coggled at. The rewards will be gleat riches immensa, power supernatural, and the knowledge that you have succeeded where thousands have failed "Signed in the four thousand and hereby seventh year of the seign of Yella-Cekim IV. May his Oread Majestry live foreset Game size. Propably the biggest micro-assenture even written Rating Expen.

Available for BBC/Master, Spectrum -(and compatibles). All versions £9.95 m +3, Amstrad PCW, CPC Idist), PC

You are fiying through the universe, minding your management Mayday Mayday The Galagow, taking the Ambassadov of the universe minding your management Mayday Mayday The Galagow, taking the Ambassadov of the Mayday Ambassad

disintegrating fast! We have left the ship for safety - Please hurry - head

from as the only person ever to survive Doom - immediately steer your ship for mandagerous planet once again. Now could be your linest hour for maybe longerous planing. Advanced.

RETURN TO DOOM is Pair 2 of Pater Killworth's challenging Doom Intogy, and is available for the above machines, price £12.95.



Brian. Go on - treat yourselves for Christmas.

COMPETITION TIME

Yes, it's late but not forgotten. All you need to do to win the triple cassette trilogy TIME AND MAGIK is to answer a few simple questions. In case you don't know, this compilation is three adventures from Level 9 computing recently released by Mandarin Software and it comprises LORDS OF TIME, RED MOON and THE PRICE OF MAGIK valued at £14.95.

The questions are:

- 1. Name two other compilations of Level 9 games released before TIME AND MAGIK.
- 2. Name one other Level 9 game released in 1988.

In case there is an overwhelming response, a third question is included as a tie-breaker:

3. What is the family name behind Level

(a) Jones (b) Mandarin (c) Austin (d) Roberts ?

Please send your entries to me to reach me by 31 December, to allow for Christmas post. If there is more than one correct solution these will go into a hat and my dog will pick the winner.

NEWS

By the time you read this it will probably be old news, but Magnetic Scrolls should be releasing the CPC version of CORRUPTION which is their follow up to JINXTER. I have the ST version and it is very different and much better than JINXTER. Based on The City and yuppie land, it is also an extremely challenging game. I can't wait for the dark nights so that I can tackle it with a clear conscience.

That's all for this year. I do hope more of you discover the satisfaction of adventuring as opposed to the shoot em up stuff ! Happy Christmas to you all.....see you next year.

PROGRAMMING parts and profession contains the contains of the contains and contain

TO ADD INFORMATION TO A BASIC PROGRAM

Dave Cutts er styl an inter broom all the

When a BASIC program is written, a start of the info notes compiled with preface may be placed at the start of Protext which will have appeared just below the end of the BASIC program (this below the end of the BASIC program (this at \$172). Note this info start-

Then [PROTEXT and ensure that you CTRL.P or you will have odd results in you screen print later. Then proceed to write the introductory info and do not now rely on Word-Wrap but arrange the find it a useful tip. It will probably lines (80 long) as neatly as possible. Then SAVE it, as you may need it again !

Back to BASIC and using [MDUMP, find the

the program with a FOR-NEXT loop of, say, FOR var=&xxxx to &yyyy:PRINT CHR\$ (PEEK(var));:NEXT. What xxxx and yyyy may be will be explained later. FOR-NEXT loop mentioned above.

> work with other Word Processors but 1 only have Protext, so know not if it will.

HARDWARE

MORE ON SIMPLE ROMBOX SURGERY

by Brian Bristow

Further to John Blessing's excellent suggestions in Issue 9, I have also tried his alterations and found that they work perfectly.

I use a Rombo Rombox, and found that the reset button and the On/Off switch could be incorporated therein. The reset button seems effective at any time, even when programs such as Discology, which ignores CTRL-SHIFT-ESC, are running. To find out where to connect the reset button wires, use a test meter to find a suitable track inside the rom box, by reference to John's instructions.

I could try to describe suitable tracks on Rombo, but it's not easy to be sure that you would get the right ones!

There is room to drill two holes in the side of the box, below the level of the Printed Circuit Board, then hide the wires below the PCB for a neat job. First you must remove the PCB from the box. The 4 little grey supports are glued, at their bottoms, to the box (Ouch!). I found that the safest way was to break off the top of 2 of those supports, both on the same side of the box, by twisting them gently with long nosed pliers from directly above a little clockwise, then a little anti-clockwise until they broke. I havn't worked out yet how to resecure the PCB...

The switch is connected to the underside of the three prongs on which the tiny plug thing goes which selects rom sockets. Use a single pole, two way, centre off, switch, connect the centre prong to 'in' on the switch, and each of the two outer prongs to either of the two 'out's' on the switch, then leave the tiny plug thing off. Now, not only can you switch roms off, but you can choose their select numbers without access to a cross head screwdriver.

Now you can use Discology without swearing, and without 'Deconnecter toutes les ROMS!' appearing...

Postscript:

I found that my CPC made noises through the speaker, louder noises as the volume was turned up, and traced the fault to the Rombo. Feeling certain that it was not my workmanship that was causing the trouble (!). I sent it to Rombo Productions for repair. To cut a long story short, it was due to my modifications, and for an explanation, I will hand you over to Rombo Productions:

"The CPC range of computers has a 'sound in' signal on pin 1 of the expansion connector, this is quite a high impedance input and will pick up any stray noises that happen to be around. The expansion connector (DK'tronics 64k Memory) is also equiped with 2 ground lines (2 and 49) which originate from 2 different parts of the main CPC PCB.

The modification that you had made used the ground track on pin 49, which is not connected (except to a de-coupling capacitor) on the Rombo PCB. The above two factors meant that any noise picked up by your additional wiring was sent down the signal track or ground line and into the CPC amplifier.

I have simply changed the reset switch ground connection to the other pin (2), and now all seems to be OK when your Rombo is used on our CPC 664."

All is now back to normal. Rombo Productions made no charge for that work, which, in my opinion, is excellent service. They even replaced my two broken little grey plastic supports as well and solved another problem for me!



MP-1 TO MP-2 MODULATOR CONVERSION

by Peter Dooley

Shortly after I upgraded to a 6128 I considered purchasing an MP-2 TV Modulator/Power Supply Unit. As I already had an MP-1, the thought occurred to me that I may be able to modify the MP-1 to upgrade it to MP-2 standard. When comparing the two units (theoretically), the only difference is that the MP-2 has a 12 volt supply to power the 6128 disk drive. When I opened up my MP-1 to check it out for upgrading I found that it also had a 12 volt supply, but as it was derived from a Zener diode and only rated to feed the modulator section it would not be suitable for powering a disk drive.

I resigned myself to the fact that I would have to purchase an MP-2. This proved to be an impossible task because, at that time (late 1987), the earliest delivery date was three months from date of order - and even that wasn't guaranteed. So, back to the MP-1 with more determination.

When I first checked the voltages in the MP-1 I had no circuit diagrams or other information to work from. The unit is simple enough, having an 8-0-8 volt transformer with full wave rectification and smoothing to supply two 5 volt regulators. This is the main 5 volt supply for the computer. Also on the transformer was a single 10.5 volt winding, which is rectified, smoothed and regulated by a 12 volt Zener diode to supply the modulator. It was while looking at this part of the circuit that I discovered that the 10.5 volt winding was wired in series with one of the 8 volt windings giving an ac voltage of between 18 and 19 volts. This is sufficient to enable correct operation of a 12 volt regulator. I am not sure of the current rating of the transformer but, when considering how often the disk drive is actually in use, I did not regard this as a problem.

To modify the MP-1, proceed as follows:

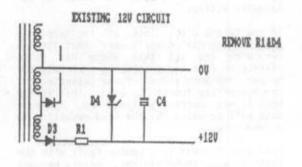
- Remove Diode D4 from the main power supply board and replace it with a 1000µf 25V capacitor;
- Remove Resistor R1 from the main power supply board and replace it with a wire link:
- Mount the 12 volt Regulator onto the back of the heatsink;
- Disconnect the O volt and 12 volt wires to the modulator circuit board and connect to the regulator (see diagram);
- Supply modulator and disk drive socket from regulator +12 volt output (the centre pin on the socket is 0 volt).

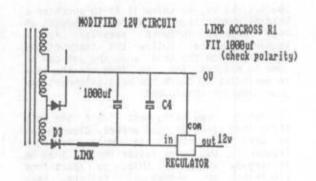
The cable with the disk drive socket can be brought out of the modulator case via one of the ventilation slots, or a hole can be drilled near the exit of the other cables.

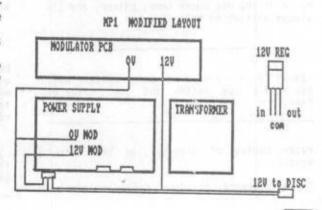
Parts required:

1 off 12 volt Regulator (Maplin Code QL32K) 1 off 1000µf 25 volt Electrolytic Capacitor (Maplin Code FB83E) 1 off 2.1mm Socket (Maplin Code FT96E)

All parts are standard and widely available.









Clive Bentham of Lincoln writes:

"I own a 464 which I have had for nearly four years now and I use the standard machine without an external disc drive, I must say first of all, that it has been my experience during that time, that although tape loading is very slow compared to discs. I have found the cassette tape to be a very reliable storage medium and I get no problems at all with loading or saving provided the tape mechanism is correctly set up.

I would say that without doubt the symptoms that John Calder mentions in his letter (CPC USER, Issue 11, pages 33/34) are caused by the misalignment of the recording head, which is the part of the mechanism that writes on, and reads off the data that is on the tape. This alignment is known as the Azimuth setting.

If you take a close look at the tape in a cassette you can clearly see that its not very wide and yet that width has to be divided to form two tracks, so that data can be put onto both sides of the cassette. You can appreciate from this then, that if the head is not correctly lined up, how some data will be missed by the head resulting in a read error.

Head misalignment is a common fault with the Amstrad cassette mechanisms, mainly because they are a mechanical device and will naturally move with time and use, so don't worry about it, the problem is easy to overcome.

The easiest way to solve it is to purchase a head alignment tape which can be bought at most computer software retailers for a reasonable price. Follow the instructions that come with the tape and the job can be done in minutes. You can then use the tape to periodically check the head alignment and your troubles should end.

Of course, head alignment isn't the only thing that can give read errors. Cleanliness is most important and must be done frequently, but Johns letter implies that he is already aware of this, so apart from electrical or mechanical failure, head alignment should do the trick.

If John has any further problems with his 464 my address can be found in the front cover of the mag under Games Editor, and I'm always willing to help if I can."

Thanks Clive. I'm sure John Calder will appreciate your letter and your offer of help.

Peter Dooley of Greasby in the Wirral writes:

"With reference to John Calder's problem

with tape loading, Amstrad Action Issue 16 contained an excellent listing for checking out the mechanics of a 464 tape deck. The program helped me to determine the cause of loading problems some time ago. I no longer have a copy on tape, but I still have the magazine should he have any difficulty in obtaining a copy.

If the program does indicate a problem, CPC in Preston can supply spare parts.

Whilst I'm at my keyboard, could any member advise me of any 6128 programs for the following:

- 1. CAD for electronics and printed circuit boards, and
- 2. INDEX for magazine articles, etc."

Thank you for writing in, Peter. John Calder will no doubt be pleased to learn of the listing.

I don't know of any CAD program that is specific to your needs, but I suggest that you contact Timatic Systems of Fareham, Hants, who offer a number of drawing packages and they may be able to advise you.

As to your requirement for an INDEX program, almost any database software will do what you want, so long as it includes a 'sort' facility. I would recommend Campbell's MASTERFILE III or Minerva's RANDOM ACCESS DATABASE if you are working in Amsdos, or Rational Solutions' ATLAST PLUS if you prefer the CP/M environment. Another possibility is PAPERBASE which is mentioned in the letter in Mailbox from Dr. Shaw in the letter in Mailbox from Dr Shaw.

The Caxton range of databases were also quite good, but Caxton no longer support the Amstrad computers so you may not get much help if you opted for a Caxton program.

Gary Martin of East Molesey writes:

"I have also experienced 'Read error B' when using my 464. There are many reasons for this, but here are a few tips.

- Use only good quality tapes;
- 2. Use only ferric oxide and not chrome;
- Never use C90 as the tape is too thin;
 Before saving or loading a program,
- ensure that the tape has been 'spooled' (i.e. fast forward then rewind); this takes up any slack and tensions the tape

Do you get the same read errors when using other tapes ? If all else fails, then you will have to reset the Azimouth angle of the tape heads; tape heads; this can be done using commercial alignment programs."

Thank you Gary. John Calder is certainly getting value for his subscription!



Kenneth Hodgson of Stoneclough near Radcliffe writes:

"What PD software do you have that might be of help to me. I have a CPC464, upgraded to a 6128, plus DD-1 drive. My daughter who is 14 yrs old uses the computer most and is at present trying to do a school magazine using desk top with extra fonts. I have NewWord with dictionary, Tasword, Taspell, etc, also Mini Office II.

I am only a beginner to computing but with a little help I hope to improve. I enjoy using the computer and would like to do more things on it. Also my wife is a junior school teacher, so any educational programs would be welcome from PD.

Thank you for producing a very enjoyable magazine. I enjoy reading every page even though I don't always understand them."

Well, Ken, I'm not too sure how best to advise you simply because I'm uncertain about your needs; I'm not even sure whether our advice is sought for yourself or your family. As a start, I suggest that you study the PD Software Update (published in this edition of CPC USER) and, if anything takes your fancy, contact John Blessing for information about a particular PD disk. You should bear in mind that by the very nature of PD software, it is not always the most up to date nor may it even include the sort of programs you are looking for.

Dr Shaw of Chidham near Chichester writes:

"I am prompted to write to Mailbox by Wg.Cdr.Cutts' use of the word 'senile' in his letter in Issue 10. I am sure he is doing himself a disservice - memory plays tricks at any age. There must be many CPC users who, like myself, are in the older age group. Does the recent survey indicate this? We may have slowed down a bit but we are not senile.

I am a retired scientist and use my 6128 for what I regard as 'serious' applications, having no interest in computer games. It irritates me that all micro computer publications concentrate on business and games with no reference to science or engineering applications - or am I reading the wrong journals ? Of course I realise that that is where the money is generated, but there is a lot of science going on and the CPC is a first class machine.

I learned my computing on a mini — a laboratory dedicated DEC PDP12 and successfully indulged in assembly programming. Yet when a few years after retirement I got interested in micros. I found it very difficult to get to grips with the subject. In my view this was not due to what Wg.Cdr.Cutts might call 'senility' but, first, because manuals and most books are very badly written and, second, the literature is peppered with abbreviations

(I have not yet translated 'm/c' in Peter Cooper's letter on page 8 of Issue 10 !). Perhaps CPC USER could publish an occasional glossary of new abbreviations appearing in its articles.

As an example of a 'serious' use, I have been compiling a cumulative index of a particular professional journal. The programs I use are adapted from PAPERBASE. This is a set of five programs designed to help the researcher build and maintain a personal database. References can be stored, searched, put in order, put in a particular layout format for publication and a manuscript can be searched for the references it contains. It is inexpensive, user friendly, and marketed in formats for different computers by Wight Scientific of 44 Roan Street, London SE10.9JT (with whom I have no business connections).

Amongst other programs I use are AMSTAT for statistical analysis and BRAINSTORM which is useful for organising one's thoughts.

I have a number of queries in the hope that the answers will be of interest to other users as well as myself:

- The 'brightness' and 'contrast' controls on my monitor seem to do the same thing, i.e, alter the brightness. Is this normal?
- Is there a way of putting diagrams into manuscripts prepared with Tasword ?
- 3. If I had a 5 1/4-inch disk drive, could I simulate a PC or at least put text on to disk so that it could be read by a PC?
- 4. Tasword seems to use the second 64k on the 6128 as a RAM disk without the limitations of Bank Manager. They won't tell me how it is done. Does anyone know?
- 5. My printer, an MP-165, has a Download Character Set - how do I use it ? A good subject for an article by someone who knows, there seems to be a dearth of information about how to get the most out of one's printer.
- 6. I would like to use an analogue-todigital converter and digital input and output control lines with my 6128. If anyone has experience of this would they please write to CPC USER about it.

Well, you did ask for some copy! CPC USER seems to be striking the right balance and I hope it continues in the same way. The CPC is a super machine and it was a little worrying to see the reduction in advertisements for CPC items when the newer machines and related publications appeared on the market. Perhaps we could hear from others with scientific or engineering applications."

Unfortunately, I don't know the answers to your technical questions but, hopefully, one or more of our more knowledgable members will respond and, with luck, the answers will appear in the next edition of CPC USER; meanwhile, you may like to contact our tame Technical Queries Editor: Stephen Brokenshire on 0652-680636 who may be able to help.



As to your query about which magazines carry engineering and/or science applications, there are such magazines but they are specialised and have a small circulation; due to the latter, they tend to be expensive and are obtainable only by subscription (at least £40 per year) - not from bookstalls. The only one I know of is WHAT'S NEW IN COMPUTING; it often carries details of specialised books and software and I suggest that you may like to get in touch with them on 01-855-7777 (they may well be able to provide a list of specialised software distributors). Another magazine which may be of help to you is ENGINEERING COMPUTERS published bi-monthly by Innopress Ltd; the mag is circulated free of charge to anyone involved with engineering computing (you can contact the publishers on 0322-77755). I am sending you a few copies of these two mags to give you some idea of their coverage.

If you are looking for modular statistical and/or mathematical packages to run on your CPC, contact S.C.Coleman Ltd on 0530-415919.

Another source of information is the Software Authors Yearbook, published by MacMillan; it includes a section devoted to a listing of software houses and the programs they publish. The book is held by all the larger public lending libraries.

You will need to recognise the limitations of the CPC computers in terms of their operating environment and their small memory. Most of the modern specialist programs were written for IBM-compatible computers with at least 1Mb of RAM.

Cost is another consideration. Even programs written to run under PC-DOS have a limited market and are thus expensive. For example, the price of marine engineering and naval architecture software developed by the Wolfson Unit of Southampton University is between £900 and £1400 per module. Even so, there are a number of specialist programs available for small memory computers, one source being the public domain software libraries (we have a few in our own PD library) and you may well find the CP/M Special Interest Group more fruitful than most. The address of the CP/M SIG is 90 Braybourne Close, Uxbridge, Middx. UB8.1UJ; for other PD software libraries contact: Advantage (0242-224340), PD Software (08926-63298) or NATGUG (0373-72739).

Many engineering and scientific programs have been donated to PD libraries. The wellestablished libraries carry surprisingly large stocks of specialised programs or adaptations which can be run in conjunction with commercial programs such as dBase II. The PD libraries are an excellent source of programs designed to run under CP/M which, not so many years ago, was the most popular computer operating environment. However, the bottom line is that nearly all the software that can be used on the CPC computers will run only in the CP/M 2.2 environment.

I couldn't agree with you more about the standard of user-handbooks; unfortunately, the majority of handbooks are not written by professional technical writers but are thrown together by whoever happens to be available at the time (usually the programmer).

I'm not certain but I believe that the IBM disc format, usable on the CPC6128, can be read by a PC from a 5 1/4-inch disc formatted and used in a 5 1/4-inch 2nd disc drive on the 6128. The CPC6128 User-Instructions actually state (Section 7, page 45): "... IBM Format (CP/M 2.2 only) ... is logically the same as the single-sided format used by CP/M on the IBM PC. The 6128 will read and write to IBM format discs, but will not create or copy them."

Details of the Download Character Set on the Micro-Peripherals MP-165 printer are given in pages 71 to 81 of the printer usermanual. I did have an MP-165 but hardly used it and I've forgotten most of the relevant detail. However, a local stockist should be able to help you. If there isn't a stockist near you, try asking one of the main distributors such as Microsol Ltd (01-739-5607) or contact Micro-Peripherals Ltd at Intec 2, Wade Road, Basingstoke RG24.ONE (tele: 0256-473232).

Incidentally, "m/c" is an abbreviation for machine code. I take your point about the need for a glossary of abbreviations and jargon.

Peter Breckin of Bury writes:

"First of all what's this about yourself, resigning as Editor, just when we had got used to you and making a good job of it too and selling all your programs and bits and pieces - are you deserting the CPC or what?

Wg.Cdr.Cutts requests lists of call addresses (Issue 10, page 9). I believe these are in the Firmware Manual (Soft 158), but wouldn't they also be on the UAUG's PD Disk PD2/2 "CTL-6128"

I would still appreciate a list of members as requested in one of my previous letters - couldn't you give notice in the mag that they were to be published unless anyone had an objection in which case they should notify you that their's is not for publication?

I have immediate need for three as follows:

Mr J.Benzies (so that I may take advantage of his offer on page 27 of Issue 11); Mrs T. Walker of Hythe and Mr T.Magean of Banbury so that I may correspond with them. I would appreciate their addresses to enable me to write.

I realise that it is too late now, but we ought to have publicised the Amstrad Exhibition in Manchester (end of October) to see if many members intended going - it would have been a good opportunity to meet up with others. I believe the admission fee was £5 - shocking, considering it is in effect an advertising/sales exhibition."



The UAUG would be contravening the Data Protection Act if it published members names and addresses; I believe I've made this clear on a number of occasions in CPC USER and, until the Executive Committee decide what action to take, there's nothing more I can do. The Act requires the UAUG to protect the data; the UAUG cannot off-load its responsibility by placing the onus on members to lodge their objection.

I suggest that you either ask us to publish your name and address (perhaps in the new CONTACT section of CPC USER), or follow the initiative taken by others and write to the members you wish to contact and send the letters with pre-stamped envelopes to the UAUG for addressing and posting to the members concerned; they then have the option of writing to you direct if they choose to do so.

My reasons for leaving CPC USER are personal and will not be of interest to the membership. I gave notice in July of my intention to stand down in December and that decision stands. I shall continue to support the UAUG by remaining a member and by submitting the occasional article for publication.

John Goodwin of Hackenthorpe near Sheffield writes:

"As I couldn't come up with an article, but still wanted to contribute, I shall do my bit through Mailbox. I am coming towards the end of my first year's membership and you will be glad to hear that I shall be renewing my subscription. I didn't feel that way at the time of the Questionnaire - I helped criticise but didn't offer practical help. Since I realised that, I look foward to each edition; I will try to help in any way. Last Issue I submitted a Game review and, though I'm no journalist, I was happy to have contributed and seen my first efforts in print.

The last Issue I thought was very good and it seems your cries, sorry, appeals for help have been heard. I think a marvellous job has been done by you all to keep the mag going when contributions reached a low ebb.

I'm a 6128 owner (previously owned a 464) and have added a 5 1/4-inch drive which I use under RODOS. This was a good decision in view of the larger capacity and disc prices. I recently purchased a DMP2160 which I'm just getting to grips with. I am very pleased with this printer - it fulfills my needs even if it has had a mauling by the computer press. I would be willing to help anyone who needs a print-out; obviously I would have to make a charge. I use various applications software and play games to relax. My favourite word processor is BRUNWORD.

It was interesting to see the articles in Mailbox by two lady members. It is rare in computer magazines to see contributions from the ladies; the articles were very interesting and I hope there will be more. I

would be willing to help people new to computers, especially the 6128.

That's all I can come up with for now. Can I take this opportunity to wish yourselves and all members A VERY HAPPY CHRISTMAS AND NEW YEAR. Bye for now. Keep up the good work."

Thank you John for making the effort and I appreciate your support. I'm delighted that you've seen the light and will be renewing your sub. Thank you too for your kind offers of help and seasonal greetings.

Richard Sergeant of Hythe in Kent writes:

"I read your article UPGRADING THE CPC in Issue 11 and, out of interest, I enquired at the Crawley Branch of Tandy about the hardware. The manager was very helpful and, after digging through old catalogues, we identified the Disk/Video Interface, ref 26-3806. He 'phoned his head office and they confirmed that there were only two of these items left in the UK @ £100 + VAT each.

I was suitably impressed and decided to place an order leaving a small deposit; hopefully delivery will be within a week.

Now, the crunch ! As I am not an electronics expert, what exactly have I got to do to upgrade my 464. Do I need a DD-1 as Drive A ? How do I sort out the connections between the unit's processor and the 464 expansion bus ? Are extra leads required or is any soldering to be undertaken ?

I am just a little worried that the conversion may be out of my league and might I be better advised to cut my losses and not proceed with the purchase.

I have the 64k memory expansion, SSA-1 speech amplifier, Dk'tronics lightpen and Rombo box with Maxam and BCPL ROMs installed and already hanging off the expansion port.

Any further and if possible detailed information about using the Disk/Video Interface would be appreciated. What software will I require to format and use the 5 1/4-inch drive?

I hope I am not asking too many questions and you are able to give a bit of helpful advice."

Oh dear me. I hope you are not going to hold me responsible for spending your money Richard! This sort of surgery is for the wizkid brigade, a member of which I most definitely am not. But I will try to advise you as best I can.

You will be aware from your 464 User Instructions of the various connections at the expansion bus. When you unpack the Tandy DYI, there should be a handbook which isn't a lot of use but does show the connections at the Tandy ribbon cable. The trick is to be able to match or convert the two connections (i.e., the 464 expansion port and

MAILBOX

the Tandy ribbon cable connector) so as to render them compatible. If your expertise won't run to this task, then forget it. The alternative, and probably the safest course anyway, is to acquire a DD-1 drive (which will include the necessary software) and utilise the Tandy DVI as a second drive. The Amstrad DD-1 can of course be fitted in the upper slot of the DVI, having moved the existing 5 1/4-inch drive from the upper to the lower slot. To enable the 3-inch drive to be fitted, you will need a pair of brackets to suit a 5 1/4-inch drive housing and these can be obtained from disk drive suppliers (e.g. Timatic Systems). If you fit a DD-1 drive in the DVI, you will first need to remove the processor board from the need to remove the processor board from the DVI; this is a very simple task requiring only a screwdriver. Whether or not you choose to fit other peripherals in the DVI casing is a matter for you to decide. It is a bit of a squeeze, so maybe you should take it one stage at a time and get your drives working before you tackle anything else.

Assuming that you plan to utilise the Tandy DVI as your 2nd drive, check that the link pin on the drive pcb is correctly positioned (see CPC USER, Issue 7, pages 12 - 14).

It may all sound a bit daunting but it's straight-forward enough if you're going to fit a DD-1 rather than cannibalising the expansion ports. I can assure you that even with the additional cost of a DD-1, you will not regret it. Good luck.

Mike Catton of Gosport writes:

"I am collecting information on printers with a view to writing a comparative review of the more common ones. I've written various test programs which I've tried on one or two printers and would be grateful if readers would run similar tests on their printers and let me have the results plus any comments.

The first program tests the printer's various functions, both in draft and NLQ. It starts with an initialising sequence that sets the printer to print in Elite at 80 columns per line with a left-hand margin of 10 cols. This is the mode in which I do all my printing, unless I am using Qualitas, since I can get more on a sheet than with Pica at 68 characters per line and the reduced number of line feeds causes it to run some 10% faster. This is followed by a line made up as follows:

- A string of upper case 'N's;
- 2. A string of 'I's in italics;
- 3. A string of 'R's in reverse;
- 4. A string of 'D's in double-height; A string of 'g's in IBM high-order;
 A string of 'h's in Epson high-order;

- Superscript; and
 Subscript.

This is then followed by a duplicate line in NLQ. Use enough characters so that the lines occupy 80 columns or a bit less. If your

printer won't recognise any of the codes, omit them and let me know.

I've run this on a few printers, sometimes with surprising results. Some, when in NLQ, won't print italic, superscript or subscript and one wouldn't print Elite. Which makes it rather pointless having them, since you can't use them when it matters.

The other two tests are full pages of text, one in Pica at 68 columns per line and the other in Elite at 80 cols. This gives about 4300 characters in Elite and a bit under 4000 in Pica. I time these tests, both in draft and in NLQ, to get a measure of the true printing speed. This again has produced true printing speed. some surprising results. The Citizen 120D with a claimed speed in Pica of 25 char/sec actually printed at 19, while the Star NL10 with a claimed speed of 30 could only manage to do 17.

The printers I am particularly interested in, as being the ones most commonly available, are the Citizen 120D and LSP10, Panasonic 1081, Amstrad 3160, Star LC10 and Epson LX800; also the 24-pin models: Amstrad LQ3500, NEC P2200, Star LC24-10 and Epson LQ500. As well as this numerical information, I'd like general comments on such things as print quality, paper handling and general convenience plus your assessment of the handbook - English or Janlish - how thorough, how well indexed, etc. Please write to me: M.Catton, 11 Battery Close, Gosport, Hants. PO12.4PA (tele:0705-585764).

Peter Hunter of Norwich writes:

"Like so many other members I am very pleased that you have had such a wonderful response to your plea in Issue 9. Like so many other members I thought I also should put pen to paper and "do my bit".

I would like to start off by thanking you and all the committee members for your hard work, dedication, free time and experi-ence. CPC USER is without any doubt my most waited for magazine, and I have all the CPC magazines on subscription.

I have just read with interest the WHOLE of CPC USER Issue 11, which is more than I can say about ANY of the Nationals. Keep up the good work and thanks again. I now look forward to Issue 12.

If anyone is interested, soon after getting my 6128 I purchased a book called "Using Your Amstrad CPC Disc Drive"; it's only a small book, but it tells you much more than the handbook does and in easy to understand terms. I do believe that this is now in the UAUG book library.

Let me tell you a bit about myself. I am 41 years old, married with no children, and I am back disabled and my wife has Multiple Sclerosis, so we see a lot of each other. My main hobby has always been Amateur Radio and, some time ago, I was



introduced to computers via the ZX Spectrum, as there was at that time much more software available for the Spectrum. I then progressed to the Spectrum +3 (with built in disc drive) and for a long time I was very happy.

My main use of the micro was for sending and receiving morse code; it's very nice, after having set up all your equipment, loaded in your software etc, to tune the radio into another amateur station in the next town, next country or the other side of the world. Listen to the morse code he is sending and have it going through your computer and out onto your screen as plain English that anyone can read. Even nicer than that is to then TYPE in your reply, in plain English, or abbreviated as it usually is, and send it via the computer and your transmitter, out of your antenna and into the other station's receiver, as perfect MORSE CODE. It isn't quite that easy, but it isn't far off. You can also use your micro for such things as RITY PACKET RADIO etc etc etc but that's another story.

Anyway, about six months ago I saw an article for a program written for the Amstrad CPC and, knowing that the Spectrum +3 was virtually a CPC, I thought it might not be a bad idea to see if I could convert the program to run on the +3, so I borrowed a handbook from a friend who has a '6128. Well, after reading the handbook from cover to cover I was so pleased with what I had read that I didn't buy the company but I did buy a CPC 6128! Since then I have not spent very much time at all on amateur radio.

I now have the Amstrad DMP 2160 printer and a second disc drive to go with the 6128. I got the second disc drive unit second hand from a friend who bought it as a spare replacement, I then built a power supply and made up a connecting cable and I cannot now imagine how I ever managed with only one drive. Then again, how did we ever manage with a cassette player, as some still do.

I don't think I will ever become a programmer, but I do enjoy trying to change programs for my own purposes. I hate games, but then not everyone would enjoy sitting in front of a radio for hours on end trying to tune into unreadable stations. So I don't knock those who enjoy games.

I seem to spend most of my time now setting up programs such as databases etc for use in conjunction with my radio station; for some reason radio amateur's seem to love making lists and charts etc.

I used to have Tasword for the +3 so when I got the 6128 I also bought Tasword. I then got Tas-spell and Tasprint. Then I was introduced to Protext and Prospell and I now

use nothing but. Tasword is good.....but not that good.

I have also added programs such as Discology, Art studio, and AMX Pagemaker, though the vast majority of my programs have come from the Public Domain Library. My favourite and most used PD program is without any doubt "NSWP" I have this on CPM so all I do is type "|CPM" and NSWP is loaded, thanks to the article by Tony Baker in Issue 10 of CPC USER. I have sent you a short program written by a friend, called "INITCPM3.BAS"; you just run the program and follow the instructions. What it does is to put tracks 1 & 2 of the system (CPM) disc onto a vendor formated disc, and so allowing you to put such programs as NSWP etc onto a vendor formated disc and still auto start.

I always send blank discs in a padded envelope, with return postage, for PD software, as I have done today. I usually get about three discs full at a time and doing it this way THEY ARE COMPLETELY FREE. A lot of the programs though are well worth paying good money for.

I did pick up an AMX Mouse MkII + 6128 interface + mouse mat + Art + handbook a while ago, second hand, and I have no interest at all in that, although it was fun at first, it all seems to work OK but it is just sitting on my shelf collecting dust now. So, if anyone wants that package cheap (no splitting it up) just give me a ring on Norwich (0603) 748338 anytime and make me an offer, either to include p&p or to be collected, and it's yours.

Well, this letter has certainly turned out to be much longer than I intended. I am not much good at describing software but I am very pleased with most of the programs I have received so far, and I have quite a lot of them. All I can say is make full use of the PD library; if you don't like or want any of the programs you get then you can always erase them. If you do it the way I do then the programs are FREE so you have nothing to lose.

I have included some of my most used programs on the other side of this disc. most of them have help notes included, or are self explanatory, and are useful utilities. None of them were written by me, but are all public domain.

I hope that some of this letter is of interest to some of the members. If anyone wants any more info then please let me know, preferably via CPC USER."

It is good to hear from you Peter and we all wish you and your wife the very best of luck. The software that you kindly sent to John Blessing is available on PD Disk 8/5, for the benefit of all members. Many thanks.

MEMBERS ARE CORDIALLY ASKED TO NOTE THAT POSTAL REPLIES WILL BE MADE TO INDIVIDUAL LETTERS ONLY IF AN SAE IS SUPPLIED

THE EXECUTIVE EDITOR RESERVES THE RIGHT TO PUBLISH ANY LETTER RECEIVED UNLESS CLEARLY MARKED: "NOT FOR PUBLICATION"



PUBLIC DOMAIN LIBRARY UPDATE

by John Blessing

I'm going to break a long-standing habit (no, not smoking), and not have my customary moan. Why is this? Well, I've had lots more software AND Richard Sargeant has written a review of some of the PD software - well done Richard, you've only got another 4 Mbytes to go!

Andrew Cope has made quite a departure from CENTROX (it's the sort of name you pronounce in capitals), and sent in a graphic adventure game. It seems well up to his high standard and you can find it on 8/3.

Dave Cutts has sent in some utilities for UTOPIA owners (8/2), can't say I've tried it as I don't own this rom. He has also rearranged the STD codes into in numerical order - so you can now find a place from a number without loading all the place files in one go (8/4).

As well as gaining my favour for reviewing some software, Richard Sargeant has sent in a rather odd piece of BASIC programming, ODEPRINT (8/2) will compose a poem to your loved one - get it before Feb 14th! On a more serious not, his MORTGAGE program will calculate just how big the pound of flesh required by your building society is. He has also debugged the calendar utility TODAY. Both of these can be found on 3/1.

Whilst we are talking of new versions, Peter Cooper has updated his utility KEYDEF (PD 7/2).

Finally, Peter Hunter has sent a disc full of PD (8/5), there's bound to be something on this one to interest you.

Well, I'd love to carry on writing, but there is a mountain of padded envelopes perched on top of my desk and I'm in serious danger of setting off an avalanche. So before I start praying for another postal strike, I'll sign off and get some of these goodies back to you!

PUBLIC DOMAIN LIBRARY

New items since last list are marked #

PD1/1 (CPM)

CAT3
CLEANUP
COMPARE
COMPARE
CRCK44
LDIR
LISTT
LRUN
Single entry per line directory
File eraser
Compares two files
Produces checksum
? (any ideas on this one?)
Sends file to printer
Run a no. of commands from a
library, as if separate COM

NSWP Multiple file utility
NI Sorted directory with
file lengths

SD Directory utility
('SD //' for help)
PASSWORD Used with SCRAMBLE
RENAME Rename with wild-cards
RPIP PIP with quick repeat

SCRAMBLE File encryption
SORTV Alphabetical sort of file
SQUEEZE Compress file

SUPERSUB Interactive version of SUBMIT
TYPEL Like TYPE

UNERA190 File unerase
UNSQUEEZE Expand compressed file
VLIST TYPE with variable scroll speed

WHATSNEW Lists newest files

(needs date-stamping I think)

PD1/2 (CPM)

COBOL COMPILER With 32k documentation

PD1/3 (CPM)

Z80ASMUK Assembler ZMAC Assembler

ZLINK Linkage editor for ZMAC
ZSM Z80 assembler (with doc)
DEDUMP File transfer software
(.ASM and .COM versions -

no documentation)

PD1/4 (CPM)

Z8EAMS Z80 monitor and assembler

PD1/5 (CPM)

SECRTARY Word processor

PDILIBRAR

PD2/1 (CPM)

SMODEM Smart modem utility CIRKIT7 Prestel link 2 KERMODE

PD2/2 (CPM)

AMSMOD7 Modem utility

MEX Modem utility (type 'MEX' then

'HELP' for help)

SMARTMEX Smart modem version of MEX UKM1275

Modem utility XMCPC2

Modem utility for Dart serial interface

CPC-UKM7 Modem Utility

CTL-6128 Lists CPM control codes

Modem utility HMODEM MODEM Modem utility

PD2/3 (CPM)

BANNER Notice printer

GOTHIC Sideways banner printer

COLLOSAL

CAVE ADVENT The original adventure game BIO

Biorhythm generator BISHOW ? (any ideas?) CAL Calendar generator

PD2/4 (CPM)

CHESS Text version OTHELLO Text board game

CUBE Simulation of 5x5 Rubik cube GOLF Text simulation of golf game Classic game of life LIFE

MASTMIND Guess the computer's word MAZE

Generates mazes

NEWPU7 Wordsearch puzzle generator PINGPONG Graphic pingpong game

(CPM+ only)

PRESSUP Board game STONE African stone game

TICTACTO Noughts and crosses

PD2/5 (AMSDOS)

25-SQUARE Rubik cube game BIOCHART Biorhythm generator BLCKJACK Blackjack card game BREAK

Snooker quiz game (6128 only) F4SQUARE Puzzle game

FAMILY Family history

(no instructions, any ideas?)

FLAG-1 Draws Australian flag

FLAG-2 as Flag-1 using FILL command HIGHLOW

Guess the hidden number HOROSCOP Horoscope generator JACKPOT Simple fruit machine KEYS Redefine keyboard to give keyword command entry

LIFE-10 Life game MEMGRAPH

Screen designer

(6128 only - needs BANKMAN)

MERCHANT Space trading game PD3/1 (AMSDOS)

AMSDIR Tape cataloguer CAT Sends CAT to printer HOME Home budget

ICON2 Ascii/Prestel converter INPUT1 General input sub-routines

LABELS Label printer

#MORTGAGE Calcs mortgage payments Management simulation exercise PAPERMAN

PENNYTEN Pingpong game PJBOMBER Bomber game

POLAR Plots polar equations QUEST

Text adventure RAFFLES Maze game

SCOSAVER Game - not working anyone like to fix it?

SPELLING Spelling game SPORTMAN Sport management game

SURFACES Graphic demo

#TODAY Calculates day names from

dates and Easter dates TYPTUTOR Typing tutor

USEOFMIN Graphic demo WUMPUS -Text adventure

PD3/2 (AMSDOS)

A comprehensive subject index in MASTERFILE format

AMSMAG85 AMSMAG86 AMSMAG87 **ODDMAGS**

PD3/3 (AMSDOS)

AS PD3/2 BUT IN ASCII FORMAT

PD3/4 (AMSDOS)

BLUE RAIDER Two part text adventure

PD3/5 (AMSDOS)

ROLL Binary and BASIC versions of scroll RSX

SCRSWAP Binary and BASIC versions

of screen swapping RSX ROLL.DEM Demo for ROLL RSX SCRSWAP.DEM Demo for SCRSWAP RSX FCAT Binary and BASIC versions

of directory to ascii file RSX RSX-DOC Ascii file with instructions

for above programs ROMREAD Saves rom as binary file

AMSTRAD.DSK Details of connecting 2nd drive PSU.DOC Construction details for 2nd

drive power supply Drive interface construction

details DISK Disc menu

BBLIST List of bulletin boards BBDOC Ditto

BENDS Calc developed length of bent metal (needs Supercalc2)

PDILIBRARY

IMPSPRIN Spring designer (needs SuperCalc2) FONTY Font designer AMSFAX Teletext simulator #CAT-U82A Sends CAT to printer PD4/1 (CPM) DS Sorted and extended directory MDIR Sorted and extended directory (with .doc file) NULL File manager ADJUST 2nd drive parameter patch FORTH 8080 Fig-Forth 1.1 compiler (no documentation) MVP Forth compiler with documentation Wordstar like editor MIKEDIT MLOAD UNLOAD LU Library utility (no doc) MAKE OWIKKEY UNSPOOL WC Ascii text file word-counter (with doc) ERAO Easy erase (CPM2.2 or CPM+) ZAP35 Superzap disc sector editor TYPWRYT Computer emulates a typwriter PD4/2 (PROTEXT - CPM or AMSDOS) STD dialling codes - very comprehensive NB see 8/4 PD4/3 (ASCII - AMSDOS) STD dialling codes - very comprehensive NB see 8/4 PD4/4 (CPM) DAZZLESTAR Full featured disassembler (needs 2 drives) PD4/5 (CPM) PCFILE Database + documentation (not tested yet!***) D-CAT CRUNCH File compresser UNCRUNCH PD5/1 (CPM) SCRIVENER Innovative mixture mail merge and data merge with 60k of documentation - well worth exploring! PD5/2 (CPM) VDE Text editor MENU INVENTORY Database - originally designed COPY for catering but flexible enough for other uses. READWRIT SORT Alphabetical sorts a text file CAT8 SPELL

Spell-checker with editable dictionary

PD5/3 (CPM) MBASIC The standard PD BASIC (CPM+ only) PD5/4 (CPM) PASCAL Pascal compiler - lots of documentation and examples PD5/5 (CPM) CREATOR Database (requires MBASIC on PD5/3) - CPM+ only REPORTOR Report generator for CREATOR ACCOUNTS Small business accounts programs (must have DBASE I!) PD5/1 (AMSDOS) MEMBERS Database (needs BANKMAN) PAYROLL Calculate pay statements (needs BANKMAN) PORTFOL Record shareholdings DIARY Diary program ENCODE Encrypt messages DECODE POINTERS Prints useful characters ELECTBIL Calc electricity bills Realistic simulation of CHIMES chiming clock BANKDBSE Database - needs BANKMAN PD6/2 (AMSDOS) UNIX SHELL PD6/3 (AMSDOS) UNIX SHELL Comprehensive documentation PD7/1 (AMSDOS) ELECTION Programs to analyse and predict elections (6128) RANDOM Random access programs (6128) PD7/2 (AMSDOS) CASSLAB Cassette label designer and printer RSX to list file attributes GRA-MEM Graphically displays memory usage DISC-RSX TYPE, |DUMP (as in CPM) and INFO on file length etc SIDEWAYS Prints ASCII file sideways

GRA-MEM

DISC-RSX

DISC-RSX

TYPE, |DUMP (as in CPM) and |INFO on file length etc | Prints ASCII file sideways (NB max 60 lines)

LASBALL

CHRDESIG Character designer | Window designer | Utility for UTOPIA ROM owners only | Utility for composing menus | Disc copier (NB run READWRIT.BAS first)

DOLIBRAR

PD7/3 (AMSDOS)

PASCALDEM

Selection of Demo programs written using Hisoft Pascal (including source files)

PD7/4 (CPM) MLOAD21 ?

NULU11

Update of library utility lots of documentation

PD7/5 (CPM - MBASIC)

KPFLY Flight simulator

(not configured for CPC)

All programs below require MBASIC.COM, which is included in this disc

LESSON1 SPAD

Appointment manager

Tutorial on BASIC variables Notepad wordprocessor Artificial psychiatrist

KOLOSSUS

(not configured for CPC) Small business simulation

SIMULAT DC10

Flight simulator

(not configured for CPC) Sequential database SEOU TEACHER Set up class tests

(not configured for CPC)

Drawing utility

(not configured for CPC) MATH Maths tutor Quiz about Xmas XMAS VOCAB

Vocabulary tester Firefighting game FIREMAN

(not configured for CPC) RENTAL Rent management Simulated artificial intelligence game

(not configured for CPC)

PD8/1 (AMSDOS)

TAX

Expenses manager for Equity members - easily adapted

WALES

Tourist guide

PD8/2 (AMSDOS)

#UTOPIA

Selection of utilities for

Utopia rom owners

#ODEPRINT

Rhyming couplets generator

PD8/3 (AMSDOS)

#RPG

Graphical role-playing adventure

PD8/4 (AMSDOS)

#TEL

STD codes in numerical order

PD 8/5 (AMSDOS)

#BANKER

Bank account program

#CALLENPT Calendar printer #CARNUM

Find out the town your car was

registered in #CATPRINT Another! #DEDIT

Disc editor #DIGICLOC Digital clock with alarm

displayed on screen #DIREDIT Unerase etc.

#DISCLIB Good disc library

#DISCMAP Shows positions of files on disc #DISCTRAC Fast CAT

#FORMPROG Quick formatter

#HOMEACCT Easy to use home accounts prog #WHATFORM

Check format of disc Ggives TV satellite position #TVSAT

#INITCPM3 Puts tracks 1 and 2 of CPM system on vendor discs

HOW TO ORDER:

1. Each of the sections above will fit on one side of a disc so send enough discs! eg if you want all the PD library then send 19 discs.

2. Please make sure the discs are blank and

in VENDOR format.

3. Use a padded envelope and enclo have been compressed to save disc space. This is indicated by a "Q" as the second letter of the filetype, eg READ-ME.DQC would be a SQUEEZED version of READ-ME.DOC. These can easily be converted into normal ascii with either UNSQUEEZE or NSWP on PD1/1 (easier still use 'P' option print an unsqueezed version) so you should order this section of the library first.

SEND ORDERS TO:

John Blessing 26 Chichester Close West Wellow Nr Romsey Hants. SO51 6EY



UAUG PUBLIC DOMAIN SOFTWARE - A PERSONAL VIEW

by Richard Sergeant

Since joining the UAUG in July 1988, I have received from the PD Software Library 8 disc sides of programs. I thought I would write a novice's review on how I have coped with and used this Megabyte of data.

PD 1/1 was my first acquisition and essentially to obtain NSWP.COM, thus allowing me to unsqueeze DQC files. I have had no problems and following Don Snoad's instructions (CPC USER Issue 9 page 5), was simplicity itself. The DOC files were printed out on my trusty DMP 2160 using (CTRL) P and then enter at the A) or B) prompt "type filename.doc". This achieved pages of hard copy; however I was not very happy with the "PRESS RETURN TO CONTINUE" prompt spoiling the general layouts. I eventually found the printer option in NSWP, this solved my problem. Having two disc drives makes life easier when transferring or copying files, I did have a few moments problem when working on SCRIVNER.DQC [PD 5/1] to try and produce SCRIVNER.DQC on to a blank data formatted disc and also get the unsqueezed DOC file on the same side; my solution, use another blank side with at least 113K spare.

Still on the subject of SCRIVNER - the first thing to do after you have produced your instruction booklet, is make a back up of the SCRIVNER.COM and bundled demo files. I didn't and whilst experimenting with one of the programs, decided to break off, resetting the computer caused the disc directory to be corrupted. I was able to save it via the use of DISCOLOGY so, be warned, if you open a file make sure you let SCRIVNER finish off what it set out to do and write the new file to disc. There is only 37K free when you receive this disc, so it may be advisable to make up different working discs.

Returning to PD 1/1, the disc is full of programs, RPIP.COM works just like PIP, the MCAT41 does work, but I prefer my Library Catalogue Program that I typed-in from CWTA (April 1988); this enables me to have up to 995 entries on a datafile, that is easily modified and the hardcopy is very useful. What a pity that because of copyright, I cannot send it for inclusion in the PD Library. Still folks if you do not have a copy, get the magazine, the time

spent typing it is worth the effort. Mind you, the original listing was not without the inevitable corrections published the following month.

PD 3/2 contains 4 programs that have to be loaded into MASTERFILE 128 or 3, the files catalogue the Amstrad CPC magazines ie. A.A. A.C.U, and C.W.T.A, from 1985 to September 1987. The Oddmags program contains various references to articles about Amstrad computers in non-Amstrad magazines. Printing out the 156k of information provides a very useful index and reference, be prepared to use over 250 sides of paper. I do hope Colin Baker produces AMSMAG88.BIN for the Library.

The program, in PD 2/5, we like the most is BREAK.BAS, a trivia quiz game. Potting the coloured balls i.e. answering a question correctly increases the size of your snooker break. I had to slow down the timing of the presentation of the questions and the response time allowed. Altering lines 560 and 970 - change 40 to a higher number, I suggest 100 should do the trick.

BANKMAN.BIN from your 6128 CPM Plus Master Disc onto PD 2/5. If you can deprotect BANKMAN.BAS alter line 180 to include RUN"MEMGRAPH.BAS" now when you run BANKMAN, MEMGRAPH will auto load. HOROSCOP - requires an extra line '5 MODE 2', the default MODE 1 is untidy, for those of you using colour monitors adding 'BORDER 10:INK 0,13:INK 1,0' to line 5 makes reading text in MODE 2 much easier; also, whilst your playing around with HOROSCOP, edit line 640 change ON I etc - to - ON NA etc. JACKPOT - I thought would be better in MODE 0, but I am still working on the problem. FAMILY - I do not understand, is it a form of the Life Game? MERCHANT is a space trading game, text only, I had to edit 3 line no's 880, 950, and 990 to remove the exclamation marks [!], also play the game in MODE 2, it makes the layout tidier. I did a screen dump of the first 2 screens this gave me the instructions and made the sequence of key presses much easier to remember.

PD 3/1 - HOME.BAS the budget program has a number of bugs. What does the command SWAP do and how is it used ? I had to remove all reference to it on lines 880 and 900 before the program would run without



crashing. I spent several hours altering and adding a printer option to this program; I have called it HOMECOPY.BAS and hopefully John will include it on this disc. TODAY.BAS - has a bug(s), when you select the Easter Day Option, the program crashes after telling you the answer; as for the select a Special Day, it leaves me mystified, the calculations are missing; also a part of the program is ignored on how to calculate Friday the 13th's. I have played around with this and have now included it in the new improved version, shortly to be available from the library. Perhaps another member might like to add the missing Option 2.

SPELLING.BAS - has a fault, if you try and answer more than 20 questions. Another one to try and sort out: RAFFLES.BAS - A maze type game, doesn't show up too well on my green screen. However I like the guard dog. PJBOMBER.BAS - a BLITZ look a like with a high score save option, that is if you firstly change line 1050 to include OPENIN "PJBOMSCR" and add line 1265 CLOSEIN. AMSDIR.BAS - needs a lot of work to improve it, the various options should be available via a menu. CAT.BAS is a super program, I have used it to make a card index for all my individual disc cases. LABELS.BAS also works a treat, far easier to set up than the labels program in the Mini Office package.

There are a lot of DOC and ASCII files to read on PD 3/5, the Super Calc 2 data files BENDS.CAL and IMPSPRIN.CAL are a little out of my depth; however I had no trouble loading them. The graphic demo's are fine, as for FCAT and ROMREAD I haven't worked out their function yet. FONTY has a bug - line 830 gocub should read -----you've guessed it!

AMSFAX - Your very own CEEFAX or ORACLE, is the sort of program I like; you can set the correct time of day by altering line 20. Getting an acceptable presentation of your data, that you enter from line 1000 onwards should improve your programming skills.

PD 4/1 includes some various FORTH languages, I spent some time trying these programs out but apart from some simple reverse Polish maths calculations that worked, the rest left me baffled. DS.COM and MDIR.COM are super, everyone should have a copy on each side of their CPM discs, DS only uses 2K and gives a full CAT of the directory. WC.COM is a word counter program, let it loose on your word processor text files and be amazed at the speed it gives you the correct answers. The ADJUST.COM file seems interesting; unfortunately I wasn't able to find a use for it. I don't have any 3 inch 700k plus discs to play with....

The programs on PD 5/2 are all CPM based. INVENT.COM writes files to the disc so be

carefull and make a working back-up. SPELL.COM and its associated files MASTER. LEX, SPELL.DOC, SPELL-ED.COM, SORT.DOC and SORT.COM should be transferred to a blank formatted working disc, also required on the same side are the copies of the text files you intend to spell ckeck. I have tested the program on TASWORD files and ordinary DOC files that are found bundled on the various PD software. If I were you I would not fill up the disc as, when in use, new files are created; leave 50k or so spare.

The second thing to do is print out both SPELL.DOC and SORT.DOC. These files can then be erased or you could use them for testing the program. Read and digest the information, and then you are ready to proceed. The MASTER.LEX file starts off at 17k, or exactly 1940 words, WC.COM could be used to count the size and might be a useful addition to your spell checker disc. MASTER.LEX is your start dictionary, working on your text files, and following the instructions will enlarge the dictionary data; I've now increased my copy to 2355 words.

In my experience I do not advise the use of SORT.COM until the end of the session, as it works incredibly slowly sorting your newly produced MASTER.LEX file into alphabetical order; don't be put off if nothing appears to happen, your computer just sits there and hums to itself for what seems like half an hour (I haven't actually timed it), and then all of a sudden it finishes with ++ DONE ++ and your even newer copy of MASTER.LEX the sorted version is present.

The SPELL-ED.COM program creates a file called NEW.LEX and then crashes. It is claimed that no damage is done and I have no evidence to the contary. This program also rewrites your text files, so beware and only use copies. I do not have any other spelling checker utility; this CPM based set up works but seems rather clumsy and sluggish. However as a merit point the subtitle of SPELL.COM is "The Poor Persons Speller".

I originally tried out VDE.COM, and my first reaction was that as a text editor it was next to useless because I could not get the program to print out any of the text I had inputted. I then read the instructions in VDE.DOC and all was revealed; you could actually use it to create or add to your MASTER.LEX file. Remember to run SETKEYS KEYS6128.VDE before entering VDE.COM. This program needs and requires time and practice to use it correctly.

In conclusion I hope my comments will be of some use, and I look forward to receiving the other PD discs, that I have yet to try out.



CPM PLUS ON ROMs from Graduate Software

by David Cutts

After receiving the original ROMs a few months ago, I was very impressed by the facilities provided and, despite several shortcomings, found them very helpful and easy to use.

However, I have recently received the upgraded ROMs and am compelled to report that they are an absolute delight to use and, even for those who may only occasionally use CPM+, the commands available still justify the very reasonable price tag.

Perhaps I may amplify on my opinion by detailing some of the more significant features of these extremely clever and innovative pieces of software. Those I have marked with an * are upgrades to the original ROMs and there are, of course, other features which are too numerous to detail in toto. A ROMboard or ROMbox is, of course, essential.

The facilities afforded by the Graduate ROMs include:

1. AMSDOS | COMMANDS

(a) | 0 enters CPM+
Can be used with additional parameters; e.g., |0, "PROG" will enter CPM+ and load PROG.COM

(b) |EMS early morning start Will also accept additional parameters as in (a) above.

(c) |PW (or |PASSWORD) built in password which may be called from within a Basic program.

Not hacker-proof but adequate.

Others include: CPMVER MYNAME MYNAME,1 MYNAME,2

NOCPM * OHELP *

The three |MYNAME commands above give variously, name, CPM registration, address. |NOCPM disables the CPM+ ROMS and |OHELP lists accessory ROMS, if any are installed.

2. CPM+ TRANSIENT COMMANDS

All the transient commands will accept additional parameters, as indicated in 1(a) above. Examples of the transient commands provided are:

(a) DIR* may, in some instances, need DIR.COM on disk. (b) ERASE, RENAME, TYPE, USER, SHOW*, DATE* and others normally requiring COM files on disk.

(c) BUILTIN lists all additional commands.

(d) CAT* supplements DIR by adding free space and sorting files into alphabetical order. Drive can be specified, thus: CAT[dr:]

(e) CLS same as in Amsdos.

(f) HOME returns cursor to top left of screen.

(g) PALETTE as in CPM+ but with INK*, PEN* and PAPER* as in Amsdos; naturally associated with MODE re- number of colours.

A lovely refinement!

(h) ROMCAT* lists the software contained in any accessory ROM supplied by Graduate Software. (Graduate can supply your favourite routines on ROM and have a range of standard ROMs at very reasonable cost)

(i) SETLIST initiates printer with

codes if desired.

(j) CKEY, NKEY, SKEY are used to define the CTRL key (normal and shift mode) whilst EXPAND defines a character string to a single key stroke.

key stroke.

(k) SIGNON* accesses CPM accessory ROMs but not such as UTOPIA, etc.

(1) WAIT is self-explanatory.

As already mentioned, this summary does not cover all the commands provided.

3. USER INSTRUCTIONS

The new handbook is a simple no-nonsense affair which is adequate and straightforward with a Table of Contents, several examples and an Index...but, alas, it could have been put together more satisfactorily for, like the original version, it tends to fall apart at the seams as the whole thing is inadequately stapled; presumably, the overall cost was the main consideration. Somewhat too penny-pinching, in my opinion, as I would be prepared to pay a little more for a sturdier document.

Nevertheless, the ROMs are a gem; worth more than the asking price and I unreservedly recommend them to all CPM+ users. I look forward to hearing more about the products (ADLAN, etc) of this up-and-coming supplier.

Cost of CPM+ ROMs: £32.50, or £9.90 if you have the earlier version for upgrading. The ROMs are obtainable from: Graduate Software, 14 Forrester Avenue, Weston on Trent, Derby (tel:0332-702993)



TEXTPROC

Don Snoad delves into the depths of a lesser known word processor and doesn't like what he finds

INTRODUCTION

Textproc was written by Paul Townsend for the Amstrad CPC range of computers; the program, of about 16K, is marketed by Britannia Software Ltd and is available from Goldmark Systems on tape, disc or ROM.

From the outset, it is difficult to judge precisely what the programmer's objectives were in developing this word processor. If it was his intention to produce a program that was to be totally different at any cost from any other word processor, then he has succeeded admirably. The program is unconventional and structurally illogical; other word processor. consequently, it is very difficult to get to grips with. It certainly has a number of features not found in any other word processor, but there are also a number of features essential to serious word processing that this program does not provide.

Uniquely, the program initialises with as many prompts as there are external ROMs, each prompt allowing the user to select or deselect any installed ROM (including the dos ROM !!) - the intention being to enable external ROM commands to be called from within Textproc.

Once the ROM prompts have been answered, the main menu is displayed offering seven options and showing the status of available file size, bytes used, bytes free, column display mode and whether the customisation facility is toggled on or off.

The maximum file size available will vary according to the number of background ROMs initialised and which Textproc program (i.e. tape, disc or ROM) is in use. With only the dos ROM initialised, maximum file sizes will be of the order of 24K when using the cassette or disc-based Textproc or about 41K when the ROM version is used; both these file capacities will be reduced by about 3.3K if user-defined characters are in use via the customising facility provided by main menu Option 7.

THE PROGRAM

The program structure is outlined in the accompanying block diagram. As the diagram shows, the main menu offers seven options; namely:

1: Type In

5: Print Text 2: Edit Text

6: Run External Commands 7: Edit Display and Custom Mode 3: Save Text

4: Load Text

Option 7

The customising facility is in part quite useful in that it offers a choice of display mode and allows the user to define new printer sequences and function key expansion strings.

The customisation feature is presented under six operational headings. Operation 'A' allows the user to choose one of two display modes; namely, 80-column or 128-column (unfortunately, there is no provision for selecting any other column width) and there are certain constraints which determine whether the full 80-columns or 128-columns will be displayed and whether the or 128-columns will be displayed and whether a single line of text will be shown on one line or two lines on the screen. Operations '8' and 'C' enable the user to define a new character set (maximum of 113 characters) when 'custom' is switched on; when 'custom' is switched off, the program defaults to the standard character set. In addition, character, definitions, can be edited In addition, character definitions can be edited regardless of the 80- or 128-column display mode (whilst dediting, the cursor changes to a red dot and the pixel behind the cursor can also be switched off!) and the printer sequences (i.e., underlining, special effects and printer pause) can be set up.

The user handbook states that ASCII codes 128 to 136 are The user handbook states that ASCII codes 128 to 136 are used for special printer control sequences, 137 to 249 are reserved to correspond with any new character definitions and those beyond 249 are reserved for use within the program. The handbook also states that ASCII code 163 is 'reserved' for the £ symbol. However, all this data is perplexing since the Amstrad CPC computers are limited by a 7-bit printer port and, as I understand it, cannot handle ASCII codes beyond 127. it, cannot handle ASCII codes beyond 127.

The expansion string facility under Operation 'C' is more straightforward and allows the user to define or edit a string of up to 32 characters against each of the eleven function keys in the numeric key pad. Operation '0' provides the route for saving customised data to tape or disc; alternatively, the data can be saved as an integral of the program, but this alternative is not able if the Textproc program in use is on ROM. this alternative is not available if the Operation 'E' enables the user to load customised data previously saved on tape or disc, but again a constraint is imposed in that the file can be loaded only if there is more than 3K of memory free. Selecting Operation 'F' from the custom menu returns the user to the main menu.

Option 6

Selecting Option 6 from the main menu is in my view screeting option by from the main menu is in my view something and nothing. The sole purpose of Option 6 is to enable the user to call external commands such as [TAPE, [TAPE.IN, [TAPE.OUT, [DISC, [DISC.IN]]]] and [DISC.OUT, and to call commands from initialised background ROMs. The option does not allow the use of the more useful commands option does not allow the use of the more useful commands such as CATalog, ERAse or REName unless those commands are available via an initialised ROM. This option could have been better utilised to call the more frequently used housekeeping commands but, as it stands, its value as an integral part of Textproc is very limited. An obvious problem with this aspect of Textproc is that should the expansion string feature be fully utilised, such utilisation will override or at least clash with any command in an initialised background ROM that also command in an initialised background ROM that also employs the same function key.

Option 1

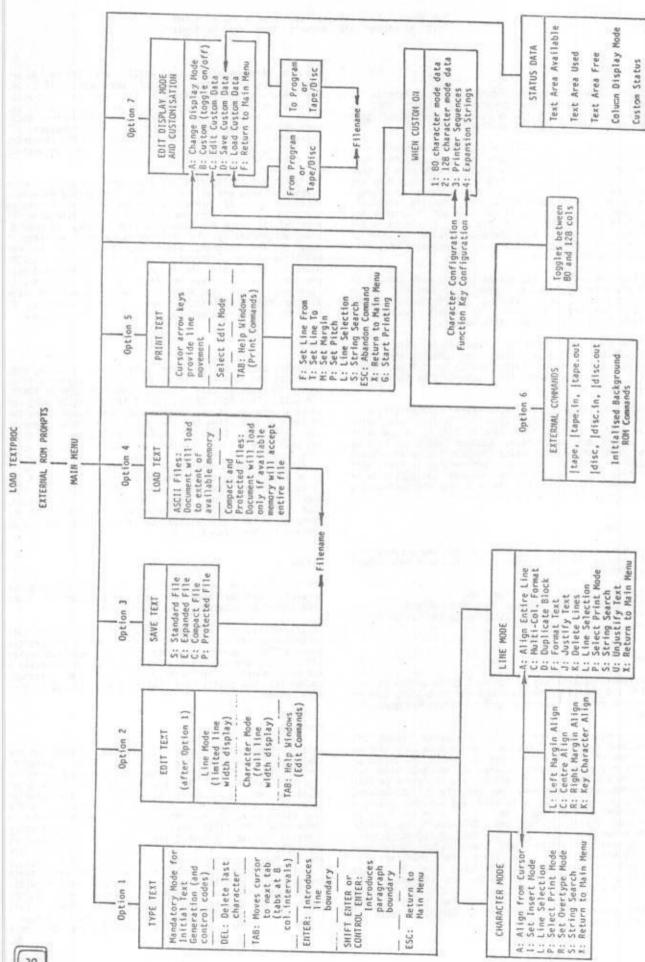
Option 1 from the main menu is the mandatory mode for generating the main body of text of a document. Volume text cannot be entered by any other route.

Unfortunately, the facilities which the program provides in this mode are confined to deleting the last character entered (DEL), moving the cursor to the next tab marker (TAB) - tabs are permanently set at 8-column intervals and two commands for introducing line and paragraph boundaries. And that's it! Anything else has to be done from Option 2.

Option 2

Option 2 from the main menu is the editing mode for the text already generated via Option 1. Under Option 2, certain text manipulating sequences can be executed dependent upon whether the program is in line mode or character mode. On entry to Option 2, the program is the contract of the program is a con defaults to line mode but there is no information in the user handbook as to how one exits or enters either of these modes. On first reading, this is a frustrating omission because although there are ten editing features available when in line mode, only six of them are available in character mode. So far as one can deduce from the handbook, the only obvious differences between the two modes is that when in line mode the line width display may be limited and the cursor moves to the beginning of the line, whereas in character mode the full line width will be displayed but the cursor may appear anywhere in the line. The significance of these

REVIEW





differences is not explained in the user handbook; in fact the handbook is so ambiguous that any newcomer to Textproc could be forgiven for being completely misled. In practice, these line and character modes do not exist as command modes, and references to them are typical examples of the unnecessary complexity indulged in by the handbook writer. The so-called modes, are merely cursor positions; in other words if the cursor happens to be at the start of a line it is described in the handbook as being in 'line mode', and when the cursor is anywhere else in a line of text it is in 'character mode'; effectively, this means that insert or overtype commands (and consequently the use of the CDPY key) can be given only when the cursor is in the line of text and not when it is at the start of a line. Even so, the statement made concerning the different availability of edit commands (according to the position of the cursor) is still valid, and this seems to be a totally pointless restriction.

The Option 2 edit mode command structure is very difficult to grasp. The DEL, CLR, and TAB key commands are immediately acted upon, but almost all the remaining commands require numerical or other parameters to be entered before the command can be executed. To add further confusion to an already difficult command structure, all kinds of 'symbols' appear on the screen (such as graphic blocks, scrolling digits, double quotation marks, repetition of double quotation marks, etc) and some of the required numerical inputs must be within certain specified ranges for them to be valid. If that were not enough, the keyboard arrow keys move the text not the cursor, and the COPY key responds only during an insert or overtype operation.

Options 3 and 4

Option 3 is the Save Text facility, enabling a document to be saved to tape or disc having first set the appropriate external command via Option 6. The normal default environment will save to disc; however, if the Textproc program in use is on tape, or if the dos ROM was deselected on start up, file saving will default to tape.

When selecting Option 3, the user can choose one of four file types; these are: standard, expanded, compact or protected. Standard and expanded files are saved character by character in ASCII format, whereas compact and protected files are saved 'en bloc' as they stand. When opting to save a 'protected' file, a password will be prompted for and must be entered (it will be saved in encrypted form); the password, once entered, cannot be read by loading or listing the file.

According to the user handbook, standard files will be compatible with those generated by other programs; expanded files should be employed when data has to be sent to the printer via another operating system or hardware interface; and compact or protected files are presumably treated as conventional document file saving. Standard files can contain BASIC programs and are loadable in BASIC, but compact or protected files are incompatible with BASIC.

There seems to be all kinds of 'ifs' and 'buts' that influence any file saving operation and, although the program will allow a filename of up to 32 characters long, the filename must conform to a valid Amsdos filename. Since Amsdos requires a filename of no more than 16 characters for saving to tape or no more than 8 for saving to disc, one is left to wonder why Textproc provides 32 characters. File attributes must not be entered because the program allocates its own attributes (e.g., "." for compact files and "/" for protected files).

Option 4 is the Load Text facility and functions in a similar manner to Option 3. A standard or expanded file

will be loaded to the extent that the available memory will allow, whereas compact or protected files will not load at all unless there is sufficient memory available to accept the entire file. Protected files cannot be accessed without the appropriate password.

Option 5

Option 5 from the main menu is the Print Text facility which, according to the handbook, enables the user to use the cursor to provide line movements and provides the option to return to the edit mode. In practice, printing cannot be started without first answering four prompts concerning line numbers, margins and pitch, following which the print command can be given (the prompts appear at the bottom of the screen, but the prefices essential to the prompts do not i).

Surprisingly, Option 5 also allows line selection and search facilities to be entered, which seems totally illogical. Other more important features such as text emphasis and printer control codes have to be entered from a sub-menu via Option 7!

HELP

Two on-screen help displays are available, one in edit text mode (Option 2) and another in print text mode (Option 5). When in the relevant mode, the appropriate display can be accessed by pressing the TAB key. The print text help screen is reasonably straightforward and lists the prefices for the prompts that need to be answered before printing can commence, but the edit text help screen does not show the restrictions on certain editing commands imposed by the cursor position (i.e. the so-called 'line and character modes').

DOCUMENTATION

The user handbook, first published in 1986, comprises a 26-page centre-stapled booklet in A5 size. The print is large and legible but there are no diagrams, no summary list of commands, and no detailed index. Apart from the mis-information about line and character modes, all the essential data is given in the handbook but it takes a lot of reading to sort out the wood from the trees. Like many program handbooks, there is great room for improvement especially in the book's overall structuring.

CONCLUSIONS

I am completely mystified by the programmer's reasoning for imposing separate text entry and editing modes, and I can see no useful purpose in having the string search and line selection features duplicated in the print menu. Neither can I see any sense in omitting the all-important prompt prefices from the print menu.

A lot of work has gone into providing such features as external ROM select/deselect, function key expansion, customisation, file types and multi-column formatting, but less work than there could have been on the more fundamental necessities such as better housekeeping facilities (e.g. CATalog, ERAse and REName), block move/delete, file merge, headers/footers and page numbering, comprehensive cursor controls, unrestricted column and tab setting and a proper display of current column, line and page numbers - to name but a few.

The numerous omissions combined with the inherent constraints and unnecessary complexity of operation render this program impracticable as a serious word processor and, regretably, I cannot recommend it.



THE SILVER REED (MODELS EX42, EX43N AND EX44) TYPEWRITER PRINTER

by Don Snoad

Because of the nature and demands of my profession, I need a daisy-wheel printer and a dot matrix printer. A daisy-wheel printer is my primary requirement, but I later acquired a dot matrix printer for initial drafting and to reduce the unexpectedly high cost of print ribbons which are consumed at an alarming rate by my daisy-wheel printer.

I would have liked to purchase a combination printer that is in effect two printers in one and will provide a dot matrix or daisy-wheel print-out at the flick of a switch, but the cost of a printer of this type was and still is prohibitive. Nowadays, most users in my position would opt sensibly for a Juki 5510 and a Juki 6100, or perhaps one of the new laser printers, but my choice had to be made before the 5510 or laser printers were marketed so for various reasons I ended up with a MicroPeripherals MP-165 (which is a 9-pin Epson FX/RX compatible dot matrix printer) and a Silver Reed EX44 daisy-wheel combined typewriter/printer. The EX44 was chosen, in preference to the Juki 6100, to provide some flexibility for small jobs, envelope addressing and the like, as well as a standby in the event of a computer break-down.

Character	Ascii Code	SR Cod
£ # 2 (s/script 2 l ₃	169	35 92 94 96
° (s/script 0) -	125
Z .	-	126

An interface is required before the printer can be computer driven; serial— or parallel-connected interfaces are optionally available. All three models use the same daisy-wheels and print ribbon cassettes as well as the auto-correction tape. The daisy-wheels are not Qume-compatible but the range available from Silver Reed extends to 19 different wheels in English.

The machines are modern, wedge shaped, lightweight mains driven portables and are supplied with power cord and an allover clip-on dust cover. The keyboard comprises

63 keys; in typewriter mode, 97 characters are available including those on the 2nd keyboard; in printer mode, 88 characters are available but the 2nd keyboard is inoperative. The typewriter/printer changeover switch, which can be used at any time to provide a mix between typewritten and computer-driven output, is sited on the interface box. The keyboard includes a 10, 12 and 15 character pitch selector and the platen width (or length if you prefer) will accommodate up to 110 columns in 10 CPI, 132 columns in 12 CPI or 165 columns in 15 CPI. Line spacing can be set to 0, 1, 1½ or 2 lines.

The machines are equipped with an adjustable paper edge guide for single sheet manual feed (no tractor feed option is marketed) and an automatic character eraser/corrector with a 16-character memory. The manual sheet feed has the advantage over auto feed (such as that used on the Juki 6100) in that each sheet can be positioned as required rather than where the auto-feed unit dictates (this often creates problems when positioning headers, etc). A mechanism is fitted at one end of the platen which when set performs as a paper end indicator.

In printer mode, typing speed is approx 12 characters/second which is rather slow by printer standards but still considerably faster than my four-fingered typing. The interfaces are equipped with four banks of dip switches to provide for 17 national languages plus carriage return and line feed controls. The serial interface includes additional switches for Xon/Xoff protocol, even/odd/no parity, 7 or 8 data bit, 1 or 2 stop bit and baud rates of 300, 600, 1200, 2400, 4800 and 9600. A data buffer of 256 bytes is provided. The Silver Reed I/F.40 parallel interface connects directly to the printer port on the CPC6128; the serial version would additionally require an Amstrad RS232 or similar interface.

In conjunction with a wide range of business software, my Silver Reed EX44 has been in regular use for over two years (in excess of 2000 operating hours); there is no obvious sign of deterioration electrically or mechanically and it has never malfunctioned or broken down. Although the daisy-wheels are expensive (about £18 each) they are robust and I am still using the original wheel supplied with the machine. I always use carbon ribbons (never fabric) which have a surprisingly short life and cost about £2.65 each. CPC USER is produced on my Silver Reed and each edition consumes between 5 and 6 cassettes.

Two years ago, the recommended retail price of the Silver Reed EX43N and EX44 models was around £350, but many retailers were selling them at £260. Although now out of production, the EX43N and EX44 can still be obtained, new, for about £210. An interface will cost an extra £50 to £60.



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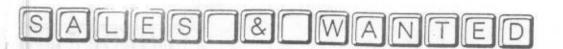
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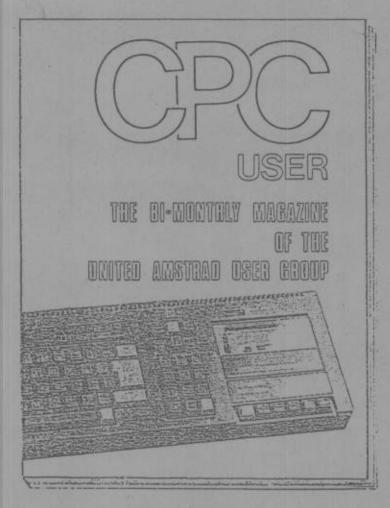
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