

FOR THE NOVICE & EXPERIENCED USER

(A) (A) IIII

WordPerfect

KEYBOARD TEMPLATE KITS •



FERENCE GUIDES

MICROREF MICPORFE Lotus 1-2-3

MICPORFE dBase III PLUS MICPORFE

MICROREF

PROGRAM TITLE

dBase III Plus

Lotus 123 v2.01

Lotus 123 v2.2

MS Word v5.0

PC/MS DOS

Multimate Adv II

WordPerfect v5.0

dBase IV

Excel



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for easy reference. Shift F8 1 **FUNCTION KEY** DIAGRAM identifies all function key assignments at a glance. Vertical function key overlay also

Alt F3 ALT = A earch Backy Indent L/R

Alt F2 F5 F6

SET PAGE FORMAT

Flush Right Math/Columns Aarking Option Date/Out Print Onti List Files

Number page in heade End header/footer Create a footnote/endnote Ctrl F7 Script or news columns Alt F7 Alt F9 F9

Merge Code

INDENT AND

TWO-SIDED **PLASTIC** design fits all keyboards, wipes clean.

included.

ESSENTIAL

COMMANDS

are organized into

logical sections

INDEX TABS and logical organization assure fast access to

procedures.

GUIDELINES

illustrations, and examples aid learning and review.

STEP-BY-STEP outline of commands and procedures is

easy to follow.

SPIRAL BOUND pages lie flat, turn easily. Built-in easel, too

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FORMATTING PAGES

HYPHENATE

SETTING PAGE FORMAT

GUIDELINES

 Use page format settings to indicate the size and type of paper and to change the size of the top and bottom margins

 When you change a page format setting, you insert a code in a document at the cursor position. You change the page ormat of a document from the cursor sition to the end of the document or to next page format setting.

w or delete page format codes on the les screen (see USING JRDPERFECT CODES section.

hen you specify the paper size and width of margins, WordPerfect automatically determines the amount of text on each

page. If you specify page numbering, headers, or footers for a document, WordPerfect will print them within the top or bottom margins and adjust the amount of text on each page.

INDENT AND

SPECIFY PAPER SIZE

(DEFAULT = 8.5 in. by 11 in.)

Position cursor at top of page where new paper size will begin

2. Hold down SHIFT and press F8 (Format) 3. Press 2 (Page Format) 4. Press 8 (Paper Size)

5. When size options appear:

To select a listed paper size, press the appropriate number, or

 Enter a different paper size. WordPerfect uses this size to reformat your document and find the appropriate form in the selected printer's definition to match the

and an an article de de

a. Press (letter o (Other))

b. Type paper width and press

c. Type paper length and press 6. To return to document, press 77 (Exi

New paper size must have a width with margins indicated on the [ALL OTHERS form. To change maximum width allowe [ALL OTHERS] form, follow DEFINE A PRINTER procedure.

Modify paper size as many times as you in a document

If you change paper size, WordPerfect automatically adjusts the text length and width within the current margins.

SPECIFY PAPER TYPE (DEFAULT = Standard)

Use this procedure to select a paper type that indicates a change in any of the following: orientation, initial presence (must type G (Go) from Printer Control screen to begin printing), sheet feeder bin/manual feed/continuous feed, and page offsets. Pane

6. At Paper Type menu, select a paper type. WordPerfect uses this type to find an appropriate form (in the selected printer definition) that contains necessary bin, paper feeding method, page offset, and font orientation instruction

NOTES

Select a different paper type as many times as you need in a document. For example, may want to use different

FRONT COVER: Confronting a Federation Mech head-on in "Mechwarrior" from Activision (PC).



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All Stam	ns and	Servi	ces		9

All enquiries and contacts concerning this Publication should be made in the first instance by writing to The Amstrad User, 641 High Street Road, Mount Waverley, Victoria 3149, Australia. Urgent matters can be phoned through on (03) 803 9661.

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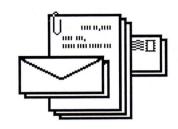
The subscription rate (for Australia) is \$45.00 for 12 issues of the magazine only, or \$80.00 for 12 issues of the magazine plus tape (for CPC range only) containing programs appearing in that issue. Postage is included in the above prices. For subscriptions to New Zealand, PNG, Solomon Islands or Vanuatu please add\$24 airmail. Other overseas prices available upon application.

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contributions will not be returned unless specifically requested coupled with a suitable stamped and return addressed padded bag (for tapes or discs).

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Letters to the Editor



A monthly selection of your comments, hints and tips, advice and news - all shared for the benefit of Australasian Amstrad users.

I've had a PCW8512 for a long time and the first game I got was The Living Daylights but after many times of trying I haven't passed stage 1 yet. Can you help me? Your mag is the best but you should put more PC games reviews in it.

Adrian Griffiths, Alfred Cove WA.

You're in luck Adrian, look at the next column.

I note that in the April 1990 issue of your magazine under the heading "What's New in PD" in the Compatibles Corner segment, Chris Collins advises of upgrades in Shareware and new EGA games.

I get the impression that discs described in this section can be purchased from him or the magazine. If this is so, could you please advise how I might obtain them and the cost etc. involved. I am particularly interested in the EGA Games #6.

Ron Barff, Chermside West. QLD

The discs mentioned in Compatibles Corner each month are not available through our Mail Order service. You must contact Chris Collins direct at:

MACRODISK

Unit 2, 47 Vernon Street South Kingsville Vic. 3015.

I am writing in answer to the letter from Antony Wyatt (November 1989). I too had the same trouble getting past the first level of PCW "The Living Daylights" until after about six frustrating months I eventually worked out how to do it. To get past the first level you run to the right until you come to the black sniper. Shoot him once with the Walther PPK and then move to the far right of the screen. You should now be able to choose a weapon for the next level.

One problem with this game is that you only have five lives and there are eight levels. When I play I lose about one life every level and so the furthest I've got is level six. A few months ago I decided to see if I could change the program so that when you get killed the number of lives you have goes up instead of down. Using "SID" and an 8080 assembly language reference card, I soon found the part of the program that had to be changed and I have made a basic program that will make the changes for you. It is listed below. All you do is run the program and follow the instructions.

10 PRINT "Insert The Living Daylights disc and press a key" 20 a\$=INKEY\$:IF a\$="" THEN 20 30 OPEN "R", 1,"bond.ems",1 40 FIELD 1,1 AS char\$
50 GET 1,2529
60 p\$=CHR\$(52)
70 LSET char\$=p\$
80 PUT 1,2529
90 CLOSE 1
100 END

If you want the game returned to normal then just change the 52 to 53 in line 60.

Stewart Wicks, Strathfield NSW.

Warning folks. This program writes directly to the master disk so be careful!

Thank you for producing the Amstrad magazine with the mostest', and yes, I would love to

renew my subscription. (Forever and ever). I am a 17 year old student studying for a degree in Business Information Systems and get very annoyed when the postman CRAMS my copy of your mag in the letterbox.

I do have some queries though:
1. Will you ever be re-introducing the "Pot Pourris" segments? If it's because you do not receive many questions to answer, let me get the ball rolling by asking What printer driver do I select when installing MS Works/Windows?

I purchased a PC2086 with the LQ3500 printer (and all the free software, naturally), and selected an Epson printer in the set up procedure. The result is the continual re-aligning of the paper,

mailbad

margins, fonts etc.

2. Please, please, pleeeaase set up a retail shop in Adelaide. I will personally contribute all my lunch money to fund the project. 3. I recommend all VGA colour monitor owners to get a hold of Mean Streets (Hint sheet enclosed) and all hard disc users to obtain a copy of PowerMenu, an excellent shareware hard disc organiser.

Well, I hope my comments and suggestions have been of some use and thank you once again for producing an all-round computer magazine (I read it from cover to cover).

Yours until Hell freezes over, Danny Mensingh, Ingle Farm SA.

- 1. Your printer troubles will be solved by selecting the LQ-1500 driver with MS Works/Windows.
- 2. As for a retail shop in Adelaide, well maybe one day.
- 3. We share your high opinion of Mean Streets and your hint sheet will be published soon.

I am an elderly retired commercial accountant who gets great pleasure and satisfaction from a PCW8512 which admirably suits my needs in writing letters, family history and financial analysis through the very commendable spreadsheet SC2.

I am also an avid reader of the matter contained in your publication about PCW's and have gained some valuable tips.

I am writing however to see whether you or some of your readers can tell me where I can obtain more information such as names of suppliers, catalogues etc. on the extensive software which must have been developed for the CP/M operating system I have. I have no intention of updating to MS/DOS unless there is some magic which enables it to be used on PCW's.

I have no interest whatever in games and I am well aware of the software mentioned in your

publication, but feel that in the mass of programmes which must have been written for CP/M there are some to which I would be attracted.

A.V. Mellefont, Killarney Vale NSW.

While we have a solid base of CP/M material locally, most software is available only in England and the U.S. So reference to their related magazines should give you a better idea of what's about.

I have a PC 2086 and use Microsoft Works. I want to produce a survey complete with boxes that can be used for computer codings, but I don't know how to draw the boxes (6mm square). I can't find IBM characters that give me what I want.

Is there any way of drawing square boxes in Microsoft Works? Alternatively, can I draw them in Microsoft Windows and then copy them into the word processor in

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mailbag

Works?

I have been lost on this for quite some time, and would appreciate if someone would be able to give me some relevant advice.

John Moulds, Drummoyne NSW.

See page 151 of the Works manual and pages 5-10 of the 2086 manual. Note that your printer may be set up for an Epson character set rather than IBM, so you must reinstall your printer as an IBM, if it is capable of doing this.

Following your review of the Personal An cestral File for the IBM from the LDS Church. Your readers may be interested to know that there is a version available in Australia that will run on the CPC 6128 and should run on the PCW, but as yet I haven't tried it. The program is Release 2.0 for use on the CP/M Kaypro and the cost is \$60.00. I have been using this program for about twelve months and find it very good, but it doesn't have PAFUTIL and FRCHK that are found in the IBM version. To run the Kaypro version, the

first thing you need to do is to transfer the files to the Amstrad disk format then you have to config the program to run on an Amstrad using the ADCONFIG file provided. Most of the codes that you are asked for, are in the user manual that came with the 6128. The other things needed are a second disk drive and a CP/M+, the instructions say CP/M 2.2. but I never tried to run the program under 2.2 and as the cursor keys do not work when using PAF, I wrote a setkeys file so they would work. Seminars on the using of the Personal Ancestral File are run by Worldwide Electronics Pty Ltd of Hornsby NSW. John A Harris, Greta NSW.

I have a PCW 8512 and I want to use it for writing essays for my University Course. At present I have LocoScript and Book 1 Amstrad Word Processing Manual. It would appear to be biased to Business use for Mail etc.

Do you have a book from which I could learn to use it for essaywriting with the PCW8512.

Clyde Daniel, Lawson NSW.

Were not too sure what you mean here Clyde. We admit that the Amstrad manual is biased towards business use, but all the word processing facilities are explained fully. After all, you can lead a horse to water, but you can't make it drink? The book "Computers and Writing" (reviewed on page 38) may be of help to you.

All correspondence should be addressed to:
The Editor, The Amstrad User, 1/641 High Street Road, Mt. Waverley, Vic 3149.
We regret we cannot give any personal replies.

CONTRIBUTIONS

We accept unsolicited articles or program contributions from readers with a view to possible publication, but in the case of programs we must insist that the coding is submitted on either tapeor disc. We just do not have the time to key them all in. The tape or disc will be returned if originally accompanied with a stamped and return addressed padded bag.

PEN PALS	If you want to join	, write to "Pen Pals" care of 1	The Amstrad User
Chris Bevan (CPC) 9 Blume Terrace Mount Gambier S.A. 5290	Chris Maloney (464 &PC) 20 Helena Court Rye Vic. 3941	Shane Stevenson (464) C/o P.O. Frederickton N.S.W. 2440	Jonathan Maddox (PCW) 7 Wendo Street Armidale N.S.W. 2350 Reg Wilson (CPC6128)
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Thorsten Gehrke 10 Dillon Street Redwood Park S.A. 5097	Damian Roy (CPC464) PO Box 350 Mansfield Vic. 3722	Kenny Thomas (CPC) 35 Doreen Street Christchurch 7 N.Z.	Stewart Wicks (PCW8256) 35 Wentworth Road Strathfield N.S.W. 2135
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PC

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News Break



Our monthly update on the gossip, news, releases and the general Amstrad scene from both home and abroad.

MICRODESIGN 2 FOR PCW ARRIVES

Because Creative Technology treat text and graphics with equal importance, their MicroDesign 2 package has been labelled an 'integrated page processor'. It provides all the essential features of Desktop Publishing and Graphic design for all the PCWs running under CP/M, and gives exceedingly high resolution results on the built-in dot matrix printer of the 8000s. Even better results can be achieved through an external 24-pin printer or HP compatible laser printer. It features excellent text editing facilities, typesetting, font design, a powerful icon symbol system, comprehensive graphics and file handling, and full page layout facilities.

MicroDesign 2 allows for the loading of text from LocoScript2, Protext and WordStar word processors and also page, screen and clip-art from other PCW packages including 'Desktop Publisher', 'Stop Press' and 'Mini Office Professional'. It is also compatible with the AMX and Kempston mouse. (See page 28).

MicroDesign 2 has been hailed as a major advance on all other desktop publishing systems (including Stop Press) and is now available through The Amstrad User for \$169 plus postage.

POMS SLOW ON THE DRAW

Consider yourself lucky that Pactronics has the licence to import Loriciel's products, one of which is the West Phaser Lightgun 'six-shooter' package for CPCs and PCs. The poor old poms have got US Gold to thank for not making it available in the UK.

The story goes like this. Loriciel, a major producer of software in France (where Amstrad CPC games sell as many as all the other formats put together - including IBM and compatibles) has a reciprocal arrangement with US Gold. Loriciels will distribute US Gold software in France and US Gold will do the same for them in the UK.

The problem is that US Gold have no plans to distribute the light-gun unless there is a considerable interest. Of course, not many people will know about it because US Gold are unlikely to advertise... result - Catch 22!

CPC TO PC UTILITY

Siren Software (UK) are currently working on a utility program that will allow users to transfer data from a CPC to a PC or back again by simply swapping disks between drives. The common transfer link is a 3.5" external disk drive.

The utility will eliminate the need for a serial linking cable,

EUROPEAN COMPUTER LEISURE AWARDS

A panel of European judges has been set the task of determining awards for software from a swag of nominations submitted by member nations. The UK selection (chosen by five computer magazines) was:

Best Sound: Ghouls 'n' Ghosts Batman Best Action Game: Best Arcade Conversion: Strider Most Original Game: Stunt Car Racer Best Flight Sim: F16 Combat Pilot Best Sports Simulator: Kick Off Most Chart Potential: Rainbow Islands Publisher of the Year: Microprose Game of the Year: Kick Off

The above selections may be open to argument, but it must be borne in mind that they were across <u>all</u> formats including Atari, Amiga and PCs.

As yet, we have no reports listing other countries' entries nor do we have the final placings, but should be able to let you know next month.

communications software and for the two machines to be within the cable length of each other. In turn, this means that users with a PC in the office will be able to take work home or even create new data on their CPC to be transferred onto the PC when they get back to the office.

We'll keep you posted.

NEW PC SIERRA GAMES

Two new games from the Sierra organisation have just been released - Conquests of Camelot and Sorcerian.

Conquests of Camelot is subtitled 'The Quest for the Holy Grail' and is a 3-D adventure with lots of new puzzles and arcade segments. It involves the search and release of three Knights of the Round Table and eventual recovery of the Holy Grail. Arcade sequences include a joust with the Black Knight (great fun). It looks like another hit from Sierra.

The second release is a Japanese best-seller called Sorcerian (350,000 copies sold). It is billed as an epic role-playing adventure

with wide ranging cinematography that will send you to strange and beautiful lands. There are 15 separate role-playing adventures within three main missions. As a fighter, wizard, dwarf or elf (male or female) you have different abilities and skills to complete your adventure. The decisions you make will decide your fate and that of your party members and the ultimate outcome of Sorcerian.

A new series begins this month (see page 40) providing an indepth review of individual Sierra games. The first to come under scrutiny is Hero's Quest with Conquest of Camelot following next month.

TAKING A PUNT

Dare we mention that the long announced and long awaited Australasian version of best-selling Horse Racing database Pro-Punter is just about completed. We have said this before, but after speaking with DGA Software in England, it now looks certain to be available around the beginning of July. In fact, a pre-release copy is currently on its way to our offices for review - so it must be true!

If you have been following the Pro-Punter saga, you will know that we first received copies of a CPC and PC version about eighteen months ago. Alas, it would not easily allow the user to set up Australian racecourses on the database and contained details of UK courses only.

By all accounts that has been put right with Pro-Punter 2 which contains a large number of enhancements making it exceedingly powerful.

This news will no doubt delight PC owners eager to get some of their money back from the bookies. CPC and PCW owners are unfortunately left out in the cold as there are no plans to produce a version for them either under Basic or CP/M. (No chance of losing money then - Ed).

UK MAGAZINE HITS PROBLEMS

It has been reported that the UK publishing company Focus has some financial problems and is now operating under receivership. The 'Amstrad Computer User' magazine, 'Popular Computing Weekly', and BBC's 'Clothes Show Magazine' are some of the titles effected by Focus's problems.

Older readers will remember that Computing with the Amstrad (a Database publication) swallowed up Amtix, then changed its name to CPC Computing. In turn this was amalgamated with the Amstrad Computer User when Focus took on the publication.

WORLD CUP SOCCER

Unless you never watch SBS or read a newspaper, you will no doubt know that the 'Olympics' of the soccer world will be held in Italy this year. In line with this major sporting event involving twenty-four nations will no doubt be the release of a number of CPC soccer games.

Kicking off first is 'Italy 1990' from US Gold and features a referee with the ability to use the 'red card'. The next squad in line is 'World Cup Soccer '90' from Virgin with close-up views of the goal mouth to aid both goalkeepers and strikers.



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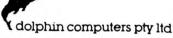
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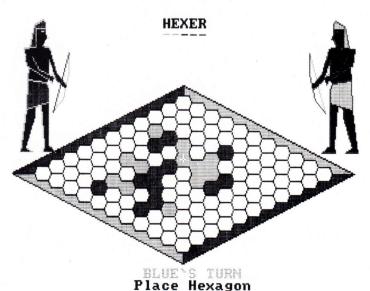
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Competition winner!

This is the entry from Nikolai Ivanovic which took the \$2900 prize in our recent programming competition.

he history of "HEXER", or, before this program, "Hex" or "Polygon" is an interesting one. The game of "Hex" was invented in 1942 by the Danish mathematician, inventor and best selling poet Mr. Piet Hein. It was while Mr. Hein was working on the four colours for maps problem, put forward by Francis Guthrie the English mathematician in 1850, that the idea of the game "Hex" dawned on him. (The four colour problem was eventually solved in 1977 by Kenneth Apple and Wolfgang Haken with the use of 1200 hours of the University of Illinois working on the problem).

Mr. Piet Hein designed a game to be played on a diamond-shaped board, made up of adjoining hexagons. Mr. Hein determined that there should be 11 hexagons along each edge, but you can play the game with more or less hexagons. Two opposing sides belong to black and the other two sides go to white. The idea was to place pieces on the board, taking it in turns between the black player and the white, to create a continuous line from one of the respective coloured sides to the other.



The winner is the player who completes his or her line first.

In the early 1950s the game took off as "Polygon" with thousands of pre-printed pads being sold.

INSTRUCTIONS

HEXER is a game played on a diamond shaped board made up of 11×11 grid of Hexagons. The two players move and fill one hexagon in alternating turns. The aim of the game is to construct a continuous line of like coloured hexagons from one of that colour's sides of the board to the other.

Upon running the game the 11 x 11 hexagon grid will be drawn up and you will be asked whether you wish to play level 1 or level 2. Level 1 is the normal board play but level 2 has a number of hexagons randomly placed on the board in a prefilled neutral colour.

After you have chosen the level, the rest of the game screen (Egyptians & Heading), is produced. The computer then says whose turn it is and the cursor can be moved about the board via the joystick, into an empty hexagon.

When the cursor is in the desired hexagon, the fire button should be pressed. This will make the hexagon be filled in the player's colour. Then it is the other person's turn and so on until a continuous line is made by one person, joining his/her coloured sides.

In the game of HEXER as in the original Hex, you can't capture but by all means you should try and block the continuous line of the other player forcing him/her to go around you or even abandon the line.

The corner hexagons may be occupied by either player. When someone makes a continuous line, the computer will show the winner with a beep and a buzz and display the score.

If at any time the game has to be aborted, pressing the Delete key will let the game be restarted.

NOTE: DUE TO GRAPHIC FILL COMMANDS, THIS PROGRAM WILL WORK ON A CPC 6128 ONLY.

- 10 'HEXER 20 'based on the game "HEX" by Mr Piet Hein 30 'invented in 1942 40 'altered and turned into CPC game by 50 ' Nikolai Ivanovic 60 ' Feb 1990 70 80 ' THE AMSTRAD USER, JUNE 1990 100 RESTORE 100: PRINT CHR\$ (23); CHR\$ (0) 110 ' 120 GOSUB 930 'initalisation and screen set up 140 GOSUB 590:GOTO 140 'main game 160 ' --- SUB-ROUTINES ---170 ' 180 'hexagon maker 190 DRAWR 20,0:DRAWR 5,10:DRAWR -5,10:DRAWR -20.0:DRAWR -5.-10:DRAWR 5.-10 200 RETURN 210 ' get rid of cursor 220 MOVE x.y: MOVER 5.0: DRAWR -10.0: MOVER 5.5: DRAWR 0.-230 k = ((180-70)*(320-x)+(320-44)*70)/(320-44): IF k > THEN wr=1:RETURN 240 k = ((70-180)*(574-x)+(574-300)*180)/(574-300): IF k)vTHEN wr=1: RETURN 250 k = ((180-290)*(320-x)+(320-44)*290)/(320-44): IF k(y)THEN wr=1: RETURN 260 k = ((290-180)*(574-x)+(574-300)*180)/(574-300): IF ky THEN wr=1: RETURN 270 RETURN <>tur THEN GOSUB 430
- 280 ' place hexagon on board 290 MOVE x-10.y-11:DRAWR 20.0:DRAWR 5,10:DRAWR -5,10:DR AWR -20,0:DRAWR -5,-10:DRAWR 5,-10:MOVER 5,5:FILL tur 300 PLOT x,y:FOR ro=1 TO 6:IF TEST(x+rox(ro),y+roy(ro)) 310 NEXT: RETURN
- 320 MOVE g,w:FOR a=1 TO e:READ x,y:DRAWR x,y:NEXT:RETUR
- 330 MOVE q,w:FOR a=1 TO e:READ x,y:DRAWR -(x),y:NEXT:RE TURN
- 340 ' someones won!!!!
- 350 FOR a=600 TO 1 STEP -10:SOUND 1,a,2,15:NEXT
- 360 IF tur=2 THEN MOVE 164,126:FILL 2:INK 2,2,18:LOCATE 16,23: PRINT "BLUE WON!!!"
- 370 IF tur=3 THEN MOVE 454,124:FILL 3:INK 3,6,18:LOCATE 16,23: PRINT "RED WON!!!!"
- 380 'score
- 390 PEN 1:LOCATE 7,24:PRINT "PRESS ANY KEY FOR ANOTHER
- 400 IF tur=2 THEN bluescore=bluescore+1 ELSE redscore=r
- 410 LOCATE 7,25:PEN 1:PRINT "SCORE : "::PEN 2:PRINT "BL

- UE ";bluescore;:PEN 3:PRINT "RED ";redscore;
- 420 CLEAR INPUT: WHILE INKEY\$="": WEND: GOTO 100
- 430 ' round line insertion
- 440 GRAPHICS PEN 1: IF ro=6 THEN 460
- 450 MOVE x+roux(ro),y+rouy(ro):DRAW x+roux(ro+1),y+rouy (ro+1):RETURN
- 460 MOVE x+roux(ro),y+rouy(ro):DRAW x+roux(1),y+rouy(1) : RETURN
- 470 ' arrow shooter
- 480 GRAPHICS PEN tur: PRINT CHR\$(23); CHR\$(1);
- 490 IF tur=2 THEN MOVE 534,350:DRAW 562,266:DRAW 562,31 4: DRAW 534.350
- 500 IF tur=2 THEN MOVE 534.350: DRAW 562.266: DRAW 562.31 4: DRAW 534.350
- 510 IF tur=2 THEN MOVE 562,314:DRAW x,y:MOVE 562,314:DR AW X.V
- 520 IF tur=3 THEN MOVE 106,350:DRAW 78,266:DRAW 78,314: DRAW 106.350
- 530 IF tur=3 THEN MOVE 106,350:DRAW 78,266:DRAW 78,314: DRAW 106.350
- 540 IF tur=3 THEN MOVE 78,314: DRAW x.v: MOVE 78,314: DRAW
- 550 GRAPHICS PEN tur: RETURN
- 560 '
- 570 ' --- MAIN GAME ---
- 590 x=310:y=201:IF tur=3 THEN tur=2:0000=3: ELSE tur=3: oppo=2 'select turns
- 600 ' set up and tell user for next turn
- 610 PEN tur:LOCATE 16,23:PRINT player\$(tur):PEN 1:LOCAT E 15,24:PRINT "Place Hexagon";
- 620 PRINT CHR\$(23): CHR\$(1): GRAPHICS PEN tur
- 630 ' place cusor
- 640 MOVE x,y: MOVER 5,0: DRAWR -10,0: MOVER 5,5: DRAWR 0,-1 0: FOR a=1 TO 100: NEXT
- 650 ' cursor and input loop
- now=now+1: IF INKEY(74)=0 AND x>25 THEN GOSUB 220 :x=x-25:GOTO 640 'left
- IF INKEY(75)=0 AND x<618 THEN GOSUB 220:x=x+25:6 0TO 640 'right
- 680 IF INKEY(72)=0 AND y<388 THEN GOSUB 220: y=y+10: GOTO 640 'up
- 690 IF INKEY(73)=0 AND y>10 THEN GOSUB 220: y=y-10:G 0TO 640 'down
- 700 IF INKEY(76)=0 THEN GOTO 740 ' fire button
- IF INKEY(79)=0 THEN GOTO 100 'reset
- 720 IF now=500 THEN now=0:50UND 1,200,10,12:GOTO 660:EL SE GOTO 660
- 730 'see if cursor is in spare hexagon
- 740 GOSUB 230:IF wr=1 THEN wr=0:GOTO 660 ' is cursor on the board?
- 750 IF TEST (x,y)<>0 THEN GOTO 660
- 760 ' get rid of cursor and sound effects
- 770 now=0:GOSUB 220:FOR so=1 TO 30:SOUND 1,so,2,12:NEXT
- 780 ' shoot arrow

cpc type-in

790 GOSUB 480 ' draw and fire 800 PRINT CHR\$(23); CHR\$(0) 810 ' put hexagon on board 820 GOSUB 290 830 ' test to see if connection made 840 GRAPHICS PEN 1:IF tur=2 THEN MOVE 164.126:FILL 3:IF TEST (454,236) = 3 THEN GOSUB 340: MOVE 164.126: FILL 2 850 MOVE 164,126:FILL 2 860 IF tur=3 THEN MOVE 454,124:FILL 2:IF TEST(164,236)= 2 THEN GOSUB 340: MOVE 454,124: FILL 3 870 MOVE 454,124:FILL 3 890 RETURN 890 ' 900 ' --- INITALISATION AND SCREEN SET UP ---920 ' set mode and inks 930 MODE 1: INK 0.0: BORDER 0: PAPER 0: INK 1,25: INK 2,2: IN K 3,6 940 ' drawing board 950 GRAPHICS PEN 1:MOVE 300,290:FOR a=1 TO 11:MOVER -25 0.-120:FOR b=1 TO 11 960 GOSUB 190:MOVER 25,10:NEXT:SOUND 1,100+a,5,12:NEXT 970 'ask for level 980 LOCATE 4,1:PRINT "--=HEXER by Nikolai Ivanovic=--": LOCATE 1,25:PRINT "LEVEL 1 OR 2":CLEAR INPUT: IF INKEY (6 4)=0 THEN 1050 'level 1 990 IF INKEY(65)=0 THEN 1010 ' level 2 1000 GOTO 980 'input loop 1010 FOR A=1 TO 7 xhex=INT(RND(1)*450)+1:yhex=INT(RND(1)*230):IF xhex<168 OR yhex<130 THEN 1020 1030 MOVE xhex, yhex: FILL 1: NEXT 1040 'get rid of "level 1 or 2" 1050 LOCATE 1,25:PRINT " 1060 'title HEXER 1070 PEN 1:LOCATE 4,1:PRINT " 1080 PEN 2:LOCATE 18.2:PRINT "--";:PEN 1:PRINT "-";:PEN 3:PRINT "--" 1090 ' marking red & blue sides 1100 GRAPHICS PEN 1:FOR cor=1 TO 8:READ corx(cor),cory(cor): NEXT 1110 FOR cor=1 TO 4:MOVE corx(cor),cory(cor):DRAW corx(cor+4),cory(cor+4):NEXT 1120 MOVE corx(8),cory(8):FOR cor=5 TO 8:DRAW corx(cor) ,cory(cor):NEXT 1130 MOVE 164,126:FILL 2:MOVE 454,124:FILL 3:MOVE 164,2 36:FILL 3:MOVE 454,236:FILL 2 1140 ' red egyptian 1150 GRAPHICS PEN 2 1160 g=46:w=360:e=14:GOSUB 320:g=64:w=384:e=12:GOSUB 32 1170 q=34:w=330:e=15:GOSUB 320:q=106:w=350:e=3:GOSUB 32

1180 GRAPHICS PEN 2:MOVE 32,312:DRAW 66,308:MOVE 30,270

:DRAW 70,280 1190 MOVE 56.390: FILL 3: MOVE 50,290: FILL 3: MOVE 44,370: 1200 MOVE 50,350:FILL 1:MOVE 50,320:FILL 1:MOVE 534,350 :DRAW 562,266 1210 MOVE 30,230:FILL 1:MOVE 60,270:FILL 1:MOVE 60,380: DRAW 56,380:PLOT 84,210 1220 GRAPHICS PEN 3:PLOT 84,210:GRAPHICS PEN 1:MOVE 5,1 80: DRAW 310.305 1230 ' blue egyptian 1240 GRAPHICS PEN 3: RESTORE 1440 1250 g=594:w=360:e=14:GOSUB 330:g=576:w=384:e=12:GOSUB 1260 g=606;w=330;e=15;GOSUB 330;g=534;w=350;e=3;GOSUB 3 1270 MOVE 608,312:DRAW 574,308:MOVE 610,270:DRAW 570,28 1280 MOVE 584,390: FILL 2: MOVE 590,290: FILL 2: MOVE 596,3 70:FILL 2 1290 MOVE 590.350: FILL 1: MOVE 590,320: FILL 1: MOVE 106,3 50: DRAW 78,266 1300 MOVE 610,230:FILL 1:MOVE 580,270:FILL 1 :MOVE 580, 380: DRAW 584,380 1310 ' variable setting 1320 player\$(3)="RED'S TURN ":player\$(2)="BLUE'S TURN" 1330 IF tur<>2 THEN tur=3 ELSE tur=2 1340 ' round data setting 1350 FOR ro=1 TO 6:READ rox(ro),roy(ro):NEXT 1360 FOR ro=1 TO 6:READ roux(ro),rouy(ro):NEXT 1370 RETURN 1380 ' 1390 ' --- DATA ---1400 ' 1410 ' data for red & blue side markers 1420 DATA 44,180,310,290,576,180,310,70,5,180,310,305,6 15,180,310,55 1430 ' data for red & blue egyptians 1440 DATA 0.24.18.0.0.8.-4.4.-16,-8,-8,-30,10,0,-20,-2, 4,-24,44,-22,2,-4,4,10 1450 DATA -28,10,-12,18,0,-8,4,-6,-2,0,-8,-10,14,-4,12, -34,14,-14,4,-2,-2,-8 1460 DATA -18,14,-12,28,0,-18,-2,-18,-2,-42,-10,-60,22, 0,-12,6,16,44,0,12,10,4 1470 DATA 6,-56,-2,-10,24,0,-14,10,0,78,-4,10,4,6,0,-30 ,-10,-36,-18,-18 1480 ' variable setting 1490 player\$(3)="RED'S TURN ":player\$(2)="BLUE'S TURN" 1500 ' data for round check 1510 DATA 0,20,25,10,25,-10,0,-20,-25,-10,-25,10 1520 DATA -10,10,10,10,15,0,10,-10,-10,-10,-15,0

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Calls to Assembly...

Joseph Elkhorne delves further into assembly language, explaining the many system calls available through CP/M.

et's continue this month with the topic of CP/M system calls, of which there are many. Version 2.2 supports 36 calls, and only to be expected, the Plus release added more bells and whistles.

Mostly, I'll stick with the 'universal' three dozen in this tutorial, to be useful to more readers.

Any development programs which are predicated on CP/M Plus can be set up to check if they're running on an earlier version. How so? With a system call!

You always load the C register with the number of the function to be performed. Sometimes you pass a value to the function in another register; sometimes you will receive a value to the function in another register; sometimes you will receive a value from the system call.

For example, the Function 'Return Version Number' requires no value to be passed to it. You merely load the C register with the 0c hex, then Call 5, and CP/M returns a value in the HL register pair. On my machine, this yields HL=0031.

The simplest Function is the 'System Reset', number 0 (zero). You don't send a value, you don't receive a value. In fact, if you try to test it from SID (or DOT), it gives you the boot! You end up back at the A> prompt.

In addition to console (keyboard and screen) functions, you can control those wonderfully obsolescent devices known as Reader and Punch. As I haven't worked with paper tape in years, and doubt any reader does, these days, we'll skip that area.

More useful is the List Output Function, 05, which will allow you to send characters directly to your printer.

Finally, there are a number of disk and file operations available. Not only is the user limited to sequential access, as in AMSDOS, but a 'random' read and write facility can be implemented.

Let's not try the marathon before we know how to walk, though. We'll investigate the simpler functions listed in Table One. These will be used by the listing FUNCTION.ASM as a practical example.

The Console Functions, Input and Output, deal with a single character. The former, 01, waits for you to strike a key and echoes it to the screen. Your program can then test the value returned in the accumulator (or Register A) and act on it.

Because the Print String Function is so useful, let's look at it in detail. The first thing you must keep in mind is that your string must have a terminator - which is the \$ character. Forget that, and dumb old CP/M will spew out the contents of memory until it finds one.

We'll do it wrong to show you what happens. From SID, try this:

A100 mvi c,9 lxi d,109 call 5 rst 6 [return]

Now, use the Set command to insert the message:

S109 'H' 'I'

Where the full stop terminates your entry. Now, what happens when you do the Go command? You'd expect to get the 'HI' message which you ordered. But the system expects a \$ somewhere. So, not only do you get what you asked for, my system continued on to print the copyright message, which DID terminate with a \$. If you want to see a real string of garbage, find that 24hex using the Dump command and Set it to something else. It was address 0198 on my 6128. Then, do the G100 again.

Now, if that initial load image of SID hadn't been in memory, a 'real' program would spit through the entire transient program area, or some 61K of memory, looking for a \$. To simulate this, fill the memory

from about 190 to D000 with a letter of some kind. Then do the G100 and wait.

There are a number of different ways to put messages in your programs. You can specify individual characters as hex values, or single literals within single quotes, or complete strings, again within single quote marks for the assembler.

You might, for instance, want to start a message line with carriage return and line feed, making a new line, rather than accepting the last known cursor position. The elements of the combined string are separated by commas. Thus:

0dh,0ah,'This is one way.\$'

and note that the dollar sign is WITHIN the quotes.

For other variations, see the listing. You'll note I'm cheating on classical CP/M by using machine-specific terminal emulation codes. They're separated, and easy enough to remove, should someone want to.

The format begins with the usual bumf, EQUates and other directives. After the ORiGin, we have the program proper, followed by the subroutines, messages and storage areas.

Because this is a simple demonstration, we have one good point: a lot of comments. A real program would take nothing for granted, however, and the user would be expected to set up his own stack, rather than relying on CP/M to do the right thing.

A stack is necessary, of course, so the system knows where to return to from subroutines. The programmer can also take advantage of the stack for temporary storage of values. More on this in the future; for now, we'll see if we get away with it, or the thing crashes in a flaming heap (would I do that to you?).

Inspection of the accompanying listing will show that some little programs I've previously used have been turned into subroutines. The main body of the program is just half a page. It prompts the user, prints a menu, waits for a choice.

We leave nothing to chance - only valid keystrokes are accepted, and those CALL (on Zero) the corresponding subroutine. Six CP/M system calls are illustrated in this trivial example.

Note that the 'clear' subroutine uses the terminal emulation codes as described in the CPC6128 User Instructions, Chapter Seven. Obviously, I could have combined the 'cls' and 'home' strings - but we're into explanation here, not a contest to write tight code.

All of the subroutines use one or another of the system calls. Those are denoted by loading a value in the C register and whatever else is necessary, then 'call bdos' does the work. This is really a jump to the address of the CP/M subroutine for execution. Since that location could vary from machine to machine or between versions, you need not know the absolute address to use the function. Bewdy!

Ironically, the version number subroutine took more code than anything else. This is because the

SERENDIPITY

Some BDOS Systems Calls

Function Name	Function Number (HEX)	Passed Value	Returned Value
System Reset	00	NONE	NONE
Console Input	01	NONE	A = character
Console Output	02	E = character	NONE
List Output	0 5	E = character	NONE
Direct Console In	Ø6 	E = 0ff(hex)	A = 00
Direct Console In	06	E = Off(hex)	A = character
Direct Console Out	06	E = character	NONE
Print String	09	DE = address	NONE
Read Consol Buffer	le ØA	DE = address	Characters in buffer
Return Version No	ØС	NONE	HL= number

Table one.

value returned in HL has to be preprocessed to allow something meaningful to print on screen for you.

Those of you who might have tried this example and used SID, may wonder about the 'echo' of the L value in the A register. Yes, BDOS functions that return a value in HL do duplicate the L value in A and the H value in B - being conservative and a pessimist, I follow the standard explanation to the letter.Let's assume Digital Research has their reasons and not get tricky, otherwise a program might have unexpected consequences somewhere, sometime, somehow.

You'll see in the Print String function call that the DE register pair is used as a pointer to the message. Several different ways of entering message data have been used, for illustrative purposes. As they say, there's more than one way to skin a cat.

I hope that the KISS theory is proving useful. In future, we'll cover more system calls and examine individual instructions in greater detail.

serendipity

```
; program function.asm for demonstrating various
            ; system calls
; J.L. Elkhorne, 1990
            ; * preliminaries *
                                               ; system interface
                                                system reset function
console input function
and console output
             up
                        01
02
conout
            equ
             above two are single character
                                               ; print a string
; get console status, or --
; is a key pressed?
; get version number
prints
                        114
getcon
            equ
                        0ch
vers
            equ
            org
                        100h
                                               ; usual start address
            : * main program *
901
                                               ; prompt user message
; the system function
; do the function
                        d.msq1
           mvi
                       c,prints
            call
           mvi
call
ora
jz
                       c,getcon
bdos
.....
                       8
                                               ; a logical trick -- see text; loop until key is pressed
            ; status is returned in A reg.=0 if no key
menus
           call
                                               : clear screen, print menu
: user choices
                       c.prints
d,list
bdos
           mvi
lxi
call
           mvi
call
cpi
cz
cpi
usrt
                       c,conin
bdos
'x'
                                               ; wait for user response
                                               ; tests for value of key struck
                       exit
           cz
cpi
                       chars
           CZ
                       invers
           CZ
                       verno
                                               ; if none of the 4 keys
; then loop back
```

	: * 5	ubrautines *		
clears	mvi	c.prints		clear the screen
	lxi	d.cls		and
	call	bdos	,	4.174
	mvi	c.prints	•	home the cursor
	lxi	d.home	,	nome the corsor
	call	bdos		
	ret	0003		
	1			
exit:	call	reg		restore 'normal' screen
	mvi	c.bye		system reset function
	ca11	bdos		farewell. user!
	1	1	•	rarewerr, user.
charsi	mvi	a. 1fh		initial value
inloops	inc			becomes 'space'
	MOV		i	move value for system to use
	Push	PSW	:	save accumulator value
	mvi	c.conout		system call
	call	bdos		the hook
	POP	PSW		retrieve accumulator
	CPI	7fh	:	compare to 'delete' character
	Jnz	inloop		do more if not done
	1	111100	,	do more in not done
	mvi	c.getcon		look for console (keyboard) ca
	call	bdos		TOOK TOT COMPONE (Keyboard) Ca
	OCA			logical instruction to
		•	i	
	Jz	chars		go to beginning if
			i	no key pressed
	ret			no key prossed
	1			
inversi	*			
man man laws	mvi	c.prints	1	send terminal code to screen
	lxi	d.revid	,	20110 101 111101 1000 10 201 0011
	call	bdos		
	ret			
	1			
vernot				
The state of the s	mvi	c.prints		print lead-in message
	lxi	d.vn	•	Pi Ilit 1640 Ili message
	call	bdos		
	mvi	C.Vers		
	call	bdos		answer returned in HL
	Push	h		preserve value
	mov	4.1	•	F33 VOIUE
		c!rlc!rlc		ripple high nybble to low
	call	chr		print one character
	mvi	a.'.'	:	and separator
	call	cd .	•	and aghanaton.
	POP	h		retrieve saved value
	MOV	ä.1	•	ACLIEAR SEASO ASING
		-,,		



```
chr
delay
delay
                   call
                                                                             : wait a little
                    ret
                    ani
                                       000011116
                                                                            ; mask upper nybble
; turn to ASCII
chri
                    adi
                                       30h
cdt
                   mov
mvi
call
ret
                                       e,a
c,conout
                                       bdos
delay:
                    1 . 1
                                      d.0f142h
                    dcx
                                                                            ; make it smaller
                                      a,d
                   mov
                                                                            : any left?
: loop if so, else
                                      dl
                   Jnz
                  mvi
lxi
call
ret
                                     c.prints
d.dfalt
bdos
regt
                                                                            ; restore standards
                   1 * message area *
                   ďЬ
                                      Odh, Oah, 'Press a key to begin ... $'
msg1
                      don't forget the dollar sign
                                   forget the dollar sign

1bh,'E$' ; Esc,E,string terminator
1bh,'H' ; Esc,H and
07h,'s' ; bell, and end
'DEMONSTRATION', 0AH, 0DH
0ah,0dh,09h,'1. Characters'
'... any key when running'
0ah,0dh,09h,09h,09h,' to terminate ...',0ah,0dh
0ah,0dh,09h,'3. Inverse Video'
0ah,0dh,09h,'3. Show Version Number'
0ah,0dh,09h,'x. Exit'
0ah,0dh,07h,'s'
1bh,'p$' ; Esc p terminal code
0ah,0dh,'You are running version $'
1bh,'p$' ; restore
1bh,'c',21h ; blue paper
1bh,'b',1fh,'$'; with white text
c1s
home
114
                   db
                   db
db
                   db
db
                   db
db
                   db
revid
                   db
db
vn
dfælt
                   ; * the rest *
keep
end
```

8

DTP on a budget

Vic Renfrew looks at Page Publisher, the cheap but capable DTP program for CPC owners.

esk Top Publishing (DTP) is fast becoming the growth industry of the home computer market. Computers originally bought as games machines or word processors are being put to other uses. People who need to produce newsletters or local magazines have found that they can use their home computer for this purpose. The best known (and arguably the best available) is AMX Stop Press (SP) which is available from TAU. The big draw back for those contemplating DTP is the cost of the software (SP costs \$129). Well all that may be about to change. Page Publisher (PP) has arrived and, for about the cost of a normal disc game YOU can experience the challenge of DTP. But is it any good? Let's have a look.

Initially, PP doesn't look like much. All you get is the program disc and a 12 page User Manual (which looks like it was produced with the program). The disc comes with the main program on one side, and PP

Extras (including a clip art file and extra fonts) on the other. If the colour scheme is not to your



liking, you can edit the loader to produce a more pleasing colour contrast.

Upon Loading, you are presented with a blank screen and a row of icons. These icons actually work the program and operate a series of pull-down menus. There are 12 icons, which will be explained shortly. Also in the top panel are indicators that show current mode, pen and pattern status, as well as co-ordinates.

The first icon is the paint pot. This contains all the options you need to produce lines and shapes. It also lets you alter the width of the pen or brush, the density of the spray can, or choose from the patterns contained in the program which can be used to fill the shapes you create.

The scissors allow you to copy and move different sections of the page around. It also allows you to reflect, rotate, or clear frame sections on the screen.

The next icon, called the 'BLOB', shows you what section of the page your current screen occupies. As well, there are other options such as overwrite and change cursor speed.

The filing cabinet allows you to load and save pages, screens, windows, fonts and patterns, as well as load text files and basic files. It is also through this icon that you access external commands, like CAT.

The printer icon allows the page, screen or window to be printed. You can choose from either draft or

quality A4 and A5.

The test icon allows you to produce text in any of three fonts. In this icon, you can also define column width or select from a number of word-wrap and justification options. The size of your text can also be decided here.

The ? icon lets you preview a page, wipe out the whole page, turn the co-ordinates on or off, or allows access to the editor for fonts, patterns etc.

The four arrow icons allow you to move around the page. The last icon, on the right of the panel, is a cross which takes you back one step and correct a mistake. By pressing the ESC key you can gain immediate access to many common functions contained in the other icons.

Control is by either joystick, function keys or cursor keys. Operation within the menus is either by cycling through the options or by pressing the key listed against the option that you want.

This is my first look at a DTP program. With PP you seem to get all the options of the more expensive programs, if not perhaps with the quality of packaging and presentation. But best of all is that you can get your mitts on a DTP program that won't dent your plastic. PP is disc only, and requires 128K to run. Have a go at PP, it's a good affordable entry into the world of DTP.

Page Publisher is available from Cue Three Software for \$59.95.

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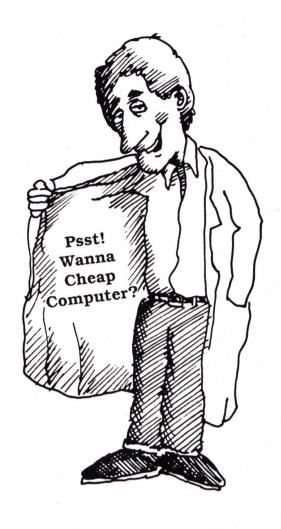
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SHADOWS OF MORDOR

Welcome to the Shadows of Mordor, in which Frodo Baggins and Sam Gamgee continue their quest to destroy the power of the evil dark lord, Sauron. The Shadows of Mordor is a brilliant piece of fantasy software which has been designed to allow a variety of responses to the adventure problems, some of which are

more efficient than others Good luck and don't let the Balrogs bite!



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That's Panasonic!

Peter Campbell review's the Panasonic KX-P1124 printer, and discovers it's an item well worth talking about.

he first printer I bought to use with my CPC464 was solid and reliable. In today's money it cost around \$700, a mere half what it had sold for less than a year earlier. Unfortunately, it was not Epsoncompatible and its NLQ would not have deceived anyone into thinking it had come from a typewriter.

Eventually I replaced it with a Panasonic KX-P1081 at about \$450 in today's dollars. That gave me much improved letter quality, complete Epson-compatibility and a liking for Panasonic products.

When Panasonic launched a new range of printers, I read the reviews with interest and decided to upgrade to 24-pin technology by purchasing a Panasonic KX-P1124 printer. I paid \$699 including a cable, but I have seen the printer advertised as low as \$580. There are other printers in the range including two 9-pin, 80-column machines. These have similar paper handling and styling. Advertised prices start as low as \$399.

Finished in a beige colour, similar to the Amstrad PC1512, the KX-P1124 has a rated speed of 192 cps in Elite draft and 63 cps in letter quality. (Because 24 pins are employed the output is described as LQ and not NLQ). It can emulate either the Epson LQ-

Row i	ndica	tor 1	ight		Column indi	cator ligh	t (ON=lit	, OFF=blin	k)
Rl	R2	R3	Row	Cl	C2	C3	C4	C5	C6
ON	OFF	OFF	lst	LQ-2500 Italic	LQ-2500 Graphic	IBM X24 Gl	IBM X24 G2	-	-
ON	ON	OFF	2nd	Draft	Courier	Prestige	Bold PS	Script	Sans Serif
OFF	ON	OFF	3rd	USA	France	Germany	England	Denmark 1	Sweden
OFF	ON	ON	4th	Italy	Spain 1	Japan	Norway	Denmark 2	Spain 2
OFF	OFF	ON	5th	Latin America	Print Di- rection	Skip	Auto LF	Auto CR	P.O Detect
ON	ON	ON	6th		Current Cor	ntrol Table	conditio	n print mo	de
BLK	OFF	OFF	7th	DLL Buffer	C.S.F.	Buzzer	Zero slash	AGM	Data Length

· Fig. 1 - The initial setup mode matrix which replaces dip-switches.

2500 or the IBM Pro-printer X24.

Although more compact than a 15 inch printer, the KX-P1124 is somewhat larger than most 80 column printers at 430 mm wide, 359 mm deep and 143 mm high. With a weight of 8.5 kg, it's about 3 kg heavier than the KX-P1081. It comes with a comprehensive manual which does not suffer from that peculiar "Jinglish" that afflicts some manuals. However, it's explanations of the many features of the printer are, at times, not as clear as they might be and some careful reading and experimentation is necessary before the printer is up and running.

To set the dip switches on my first printer, I had to remove the knob from the side, turn the machine over and remove four screws from the base. I could then remove the casing and set the dip-switches. After which the casing and knob had to be put back on.

Setting dip-switches on the KX-P1081 was a simpler task as they were located under a clear flap in the base of the machine and were accessed by moving the print head aside. The light had to be right and a long thin instrument, such as a small bladed screwdriver was useful.

The KX-P1124 has no dip-switches. Instead you make the initial settings from the front panel. Press the "FUNCTION" switch and turn on the power. The "ON LINE" LED flashes and the "ROW" and "COLUMN" LEDs light up. You work your way through a 7 by 6 matrix, selecting the options you want by row/column reference and then pressing "SET". At first glance the matrix is a bit forbidding. (See Fig. 1).

However after studying the manual and experimenting a little, I found it easy enough. The settings can be printed out. Fig. 2 shows what printed out once the machine had been set up for use with my CPC464/6128 hybrid computer.

The only setting I have changed, in order to run the printer with a PC1512SD computer, is the data length which I changed to "8". I have since found that the 8-bit data length setting works quite satisfactorily on the CPC. All I have to do is change over

Version D INITIAL SET-UP condition

* Emulation mode : LQ-2500 Graphic

* Default font : Draft
* Int'l char. set : USA

* Image direction : Bi-direction * Skip perforation : OFF

OFF Automatic LF P.O detector ON Download buffer : Disable Cut sheet feeder : OFF Buzzer sound : OFF : 0 Zero font : OFF Alt. Graphic Mode Data length 7 :

LQ-2500 is a trademark of EPSON America, Inc.

the cables. (I must get a data switch!)

A similar matrix approach is used to set the default font, pitch, form length, and lines per inch, and to choose between the "quiet" and normal printing modes, as well as the left and right margins. Three "macros" complete the matrix, which is shown on the front of the printer. This is handy if you want to temporarily change the default settings.

The macros are a useful feature. They are default print modes which can be programmed into the printer, where the settings are retained even when the power is turned off. Thus you can set up the fonts, pitch, paper length, lines per inch, and margins required by regular printing jobs - such as pre printed forms and store the settings in macro 2 or macro 3. Macro 1 is used to store the current default settings.

Paper can be fed into the printer in three ways. The usual method is to use continuous paper and "push" it through the printer from the rear of the machine. This brings into operation some special

features.

Need to feed a single sheet through? Press "FUNCTION" and then "ON LINE". This brings "MEMO LOAD" into operation. The continuous paper backs out of the paper path. You then open the front flap and push the single sheet of paper in as far as it will go. Move the lever on the top left of the printer from "T PUSH" to "F" (friction feed). Press "FUNCTION" and "ON LINE" again and the sheet is fed into position. After printing, move the lever to "T PUSH" and press the 'FUNCTION" and "ON LINE" keys again to return the continuous paper to the printing position.

Finished printing on the continuous paper and want to tear it off? Touch the "SET" key, which double as "PCUT" and the paper moves up in line with the tear-off edge of the grey perspex cover. Tear it off and touch the "SET" key and "PCUT" (perforation cut) returns the paper to the printing position, with no wastage.

The memo load and perforation cut features cannot be used if you pull paper through the printer from the slot underneath. However, this method of feeding is recommended when labels and multi-part forms are being used.

If you have ever printed labels, you will know that they have an annoying habit of peeling off the backing paper whenever they are required to negotiate a sharply curving path. The path for pulling paper through the KX-P1124 is gently curving and I have had no trouble with labels peeling off and getting stuck in the bowels of the machine.

The paper path for cut paper allows an A4 sheet to be fed through sideways. However, the printer can only print an 8 inch (20.32 cm) line on the paper, starting no closer than 1.5 inches (3.81cm) from the left-hand edge. Nonetheless, the ability to handle paper up to A3 (which is as wide as A4 is long) would be useful if you wanted to print a poster, for example.

The print head life is stated at 100 million characters, while the fabric ribbon has a stated life of 3 million draft characters. Like the cassette used on

PRINT OUTPUT SAMPLES

Draft

- The quick brown fox jumps over the lazy dog.

LQ Courier

- The quick brown fox jumps over the lazy dog.

Sans Serif

- The quick brown fox jumps over the lazy dog.

Prestige

- The quick brown fox jumps over the lazy dog.

Script

- The quick brown fox jumps over the lazy dog.

Bold PS

- The quick brown fox jumps over the lazy dog.

Fig 4. - The six in-built fonts of the KX-P1124

[•] Fig. 2 - Initial Settings Print-out.

hardware review

the KX-P1081, this one has a built-in re-inking cartridge which extends the life by about 50% when compared with cassettes not having this feature.

In order to place the printer between my two computers, I put it on one of those printer stands which consist of two supports that tilt the printer forward. This particular version also has a paper tray on the back. The supports stop the front flap from being opened. No problem! The flap is detachable.

By using a combination of fonts, pitches and enhancements (such as, double high, double width, italics, emphasised, super and subscript etc.) up to 5500 different print styles can be created. And if that is not sufficient then you can load in up to 256 draft of 160 letter quality characters by fitting the optional 32k printer buffer. Fig. 4 shows the six in-built fonts.

The available pitches (number of characters per inch) are 10, 12, 15, 17 and 20. Each of these can be printed double height and/or double width. Other pitches can be created by inserting additional space

between the characters. A command called "character dot spacing" is provided to do this.

The printer has its own word processing commands which enable it to centre text, align it with the right margin, or justify it by spreading it evenly across the page. I found this last feature disappointing as it produces an uneven left-hand margin. I have also not managed to get it to justify proportionally spaced text, even though the printer provides a number of ways of supposedly achieving this.

Generally the KX-P1124 responds predictably to the codes used by its 9-pin predecessor. However, when it came to justifying text under the control of Protext, it proceeded along the line with a slow and jerky motion. By choosing the code to move the print head to a "relative horizontal position" instead, the printer performed the task more quickly and smoothly. For LQ printing this also required the character width to be redefined.

One very useful feature of modern printers is their ability to turn on the "Most Significant Bit" (MSB). CPC computers only have a 7-bit interface (i.e. they can only send the printer 7

interface (i.e. they can only send the printer 7 bits of information out of a possible 8, resulting in the printer's characters from 128 to 255 normally being unavailable). However, by sending a code to the printer to tell it that the following codes should be 8-bit, the printer can be made to add on the MSB, or eighth bit. All characters can then be used, enabling the drawing of boxes and other useful things. Just how to exploit this feature is beyond the scope of this review.

Page form length can be varied from 0 to 22 inches with a selection of 8 to 14 inches available from the control panel. The true A4 form length (11.7 inches or 297 mm) is one of the six selections.

Distance between lines can be as little as 1/360 inch or as much as 1.42 inches! Again the more common lines per inch settings can be selected from the control panel. The default is 6 lines per inch.

If I have a major criticism of the machine, it is of its noise level. Some people have called it fairly average, but to me, it is not only louder but also more intrusive than either of my previous printers. There is, I admit, a "quiet" mode. This slows the printer and drops the noise level a bit, but for office use, I believe this machine would require a sound proofing box.

In summary, though, Panasonic's KX-P1124 represents good value for money. Features which appeal are its paper handling, print quality, ribbon re-inking, the default macros and the front control panel which replaces inaccessible dip switches. Less appealing are the noise levels, its word processing, and the instruction manual.

PRINT OUTPUT SAMPLES

Pitches:

5 cpi Elongated Pica - The quick brown for 5 cpi Elongated Micron - The quick brown for 8.5 cpi Elongated Compressed Pica - The quick brown for 8.5 cpi Elongated Compressed Pica - The quick brown for jump 10 cpi Elongated Compressed Elite - The quick brown fox jump 10 cpi Pica - The quick brown fox jumps over the lazy dog. Now 12 cpi Elite - The quick brown fox jumps over the lazy dog. Now is the tis 5 cpi Micron - The quick brown fox jumps over the lazy dog. Now is the time for all good 17 cpi Compressed Pica - The quick brown for jumps over the lazy dog. Now is the time for all good mea 20 cpi Compressed Elite - The quick brown for jumps over the lazy dog. Now is the time for all good mea

Fonts:

Draft
LQ Courier
Sans Serif
Prestige
The quick brown fox jumps over the lazy dog.
The quick brown fox jumps over the lazy dog.
The quick brown fox jumps over the lazy dog.
The quick brown fox jumps over the lazy dog.
The quick brown fox jumps over the lazy dog.
The quick brown fox jumps over the lazy dog.

Enhancements:

Double high - The quick brown fox jumps over the lazy dog.

Double width and height - Th

Italics - The quick brown fox jumps over the lazy dog.

Emphasized - The quick brown fox jumps over the lazy dog.

Double strike deapt - The quick brown fox jumps over the lazy dog.

Double strike emphasized draft - The quick brown fox jumps

Double strike emphasized draft italics - The quick brown fox jumps

Double strike emphasized draft italics - The quick brown fox jumps

Double strike emphasized draft italics - The quick brown fox jumps

Double strike emphasized draft italics - The quick brown fox jumps

Double strike omphasized draft italics - The quick brown fox jumps

These samples were produced using a CPC464/6128 computer without the benefit of an 8-bit interface. The box was printed first and the paper backed up to the starting point because it was not possible to print a perfect box with so many varying pitches inside.

Fig. 5 - Samples of the output of the Panasonic KX-P1124

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Printing lists in LocoMail

With a little trickery, LocoMail can be used to print lists of information from it's complex datafile sources.

ocoMail is LocoScript's mailmerge program. It's job is to pull information into a preprepared document known as a Master document.

The ways in which the Master document can manipulate your information are endless. As well as the simple instructions that insert information into the document, there are LocoMail instructions to select just the data records you want, to do calculations on numeric data, combine items of information, repeat groups of instructions or omit them under certain circumstances.

SIMPLE LISTS

Producing lists of information from a LocoFile datafile is a very easy task in LocoMail, requiring just four types of LocoMail instruction.

The first instruction that is needed is the simple (+Mail) *itemname* (-Mail) instruction. This instruction copies into the finished document the information in the datafile associated with the given name. For example:

(+Mail) Name (-Mail) copies the Name information from the datafile.

(+Mail)Phone(-Mail) copies the Phone information.

These instructions are positioned at the actual point in the document at which this information is to be inserted. Suppose, for example, you wanted to prepare a much more sophisticated phone

list than the simple one we produced using LocoFile's Print Extract feature - made up of Names on the left and Home: followed by Phone numbers on the right:

Joe Bloggs → Home:01-123-1234 J

All you need to represent this layout in your Master document is:

(+Mail)Name(-Mail) \rightarrow Home: (+Mail)Phone(-Mail) \downarrow

(Of course, you'll also need a suitable tab top on the Ruler line). The line with (+Mail)Name(-Mail) replaces the actual name and (+Mail)Phone(-Mail) replaces the actual phone number. Notice how the → sign remains outside the Mail instructions. You must always be careful to put any tabs and styling or positioning codes (such as (+Bold) and (RAlign)) outside of Mail instructions: otherwise they'll be taken as part of the instruction and won't make their way into the finished document.

The information that is copied at any time is taken from one record - the Current record. When you are preparing a list, you need to take information from a number of different records, so another LocoMail instruction you need is the \$+ instruction that tells LocoMail to move on to the next record in the datafile. This needs to follow the (+Mail)item-name(-

Mail) instructions as follows:

(+Mail)Name(-Mail) → Home: (+Mail)Phone(-Mail) ↓ (+Mail)\$+(-Mail)

The (+Mail)item-name(-Mail) and \$+ instructions take the required information from the current record and move on to the next record. To take the information from all the records in the datafile, you need LocoMail to repeat these instructions once for every record in the datafile.

The way to do this is to save these instructions as an item in its own right (known as a Program Unit):

(+Mail)Prog_unit="(+Mail)Name(-Mail) →Home: (+Mail)Phone(-Mail) △ (+Mail)\$+(-Mail)"(-Mail)

and then use the Perform command % to Perform this Program Unit over and over again until the end of the datafile is found (signalled, for example, by the Name item becoming empty):

(+Mail)%Prog_unit @Name(-Mail)

(@Name tells LocoMail to keep on performing Prog_unit until Name is either empty or zero).

Simply putting all these instructions together gives us a Master document that will produce the list we want. However, this Master document is more of a mass of (Mail) codes than it needs to be. In practice, we would recommend using the following set

of instructions in which the \rightarrow sign and the word Home: have been stored as Text and the carriage return at the end of each line of the list is stored as cr:

(+Mail)Text = " → Home: " ↓ cr=" ↓ " ⊥

Prog_unit="(+Mail)Name:Text:Phone:cr.↓ \$+(-Mail)" ↓ %Prog_unit@Name(-Mail)

As you see, this simple rule has made the Master document much clearer to read.

This Master document gives you lists without recourse to any of the 'false' Paper Types that we needed when using the Print Extract feature. All you have to do is set up the document for the printer and the type of paper you want to use and merge it with a suitable datafile.

ORDERED LISTS

The list produced by the above Master document has one disadvantage compared to the lists produced by Print Extract - it's just sorted in record number order.

This is easily remedied by using another LocoMail instruction - the \$= instruction. This is a new LocoMail instruction introduced specifically to allow LocoMail to take advantage of the indexes in LocoFile datafiles. It can only be used with LocoFile datafiles and it is only available in versions of LocoMail that have been upgraded to work with LocoFile. (If you have got LocoMail already, this upgrading will happen automatically when you install LocoFile on your system).

The \$= instruction selects an index set up in the datafile - in other words, it lets you choose the order in which LocoMail works through the datafile. The box overleaf explains how the command works. Phone lists are normally in Surname order, so the \$= instruction you would want is:

\$="Surname"

The quote marks are needed to

tell LocoMail that the name that is being given is the actual name of the index that is required: without the quote marks, LocoMail would take the current contents of the Surname item as the name of the index it was to select.

This instruction simply needs to be put at the top of our LocoMail master document as follows:

Prog_unit="(+Mail)Name:Text:Phone:cr.↓ \$+(-Mail)" ↓ %Prog_unit @Name(-Mail)

To produce the Phone list in, say, Firstname order (assuming the datafile has such an index), the instruction simply needs to be changed to:

\$="Firstname"

while you can leave the choice of the index to use until the Master is merged with the datafile by changing the instruction to:

\$=? ; Type the name of the index you require.

SELECTIVE LISTS

Further changes to this Master document will let you be selective about the records that you include in the list.

Suppose, for example, that the only people you wanted to include in your phone list were people living in Hamilton. One way of making this selection is to pull up the records one by one and test whether the address in the current record is in Hamilton - if it is, include the information; if it isn't go on to the next record. The way you make this test is by using the LocoMail # command to specify the conditions under which you include or exclude records from the list.

If you have a specific Town item in the datafile, you would use the condition:

Town = "Hamilton"

to test if the current Town item is Hamilton, and if so, insert the name and phone numbers:

#Town="Hamilton":<:Name:Text: Phone:cr>

To ensure that this test is carried out on every record, this # instruction needs to be put in our Program Unit as follows:

Prog_unit="(+Mail)#Town="Hamilton"... <:Name:Text:Phone:cr:> ... \$+(-Mail)" ...

The Program Unit now tests whether the town item in the current record is Hamilton: if it is, then LocoMail adds the Name and Phone details to the list and then advances to the next record; if it isn't then LocoMail skips the instructions to insert the Name and Phone details and simply advances to the next record.

Even if you don't have a specific Town item, you can still use this approach - only this time you need to take advantage of LocoMail's 'wildcard'* to ask the question "Does the Address item include the word Hamilton?"

When comparing two pieces of text, LocoMail interprets * as meaning 'any number and combination of characters'. If an address includes the word Hamilton. then it can be thought of as some combination of characters (the details don't matter), followed by Hamilton, followed by some other combination of characters (again, the details don't matter). Also it doesn't matter what combination of upper case and lower case letters you've used - LocoMail will pick out Hamilton, hamilton or HAMILTON. So, the records you want are the ones in which the Address item matches *Hamilton*, making the # instruction you need:

Address = "*Hamilton*"

The Program Unit you need in this case is therefore:

Prog_unit="(+Mail)#Address="*Hamilton*", __

SELECTION USING THE KEYS

If you keep Town as a separate item in your datafile, there is another way of generating a phone list just for the people living in Hamilton. This is done by working directly with the keys LocoFile stores in an index.

To use this approach, you need to set up your datafile so that Town appears as an item in its own right and not as part of the address item. Then you can create a special index - one that has Town as the Main Key item and Name as the Sub Key item. Such an index orders the records primarily in alphabetical order of Town name, but where the Town is the same, the records are put into alphabetical order of Name.

The advantage of this index is that it automatically groups together all the records for people living in Hamilton - so once you have found the first record for Hamilton, you then know that all the other records for Hamilton follow this one. (As we will see, LocoMail has an instruction that will go straight to the first record with a given key).

Moreover, once you find a record that doesn't have Hamilton as the Town, you know that you have processed all the Hamilton records and you don't need to look at any more records. You can ask LocoMail to go straight to the end of the datafile so you don't have to waste time with the records which come after the Hamilton records.

To use the keys of this special Town index to pick out the records of people with addresses in Hamilton, you use a \$\$ instruction - another new LocoMail instruction introduced specifically for processing LocoFile datafiles. This instruction allows you to tell LocoMail to go directly to the record with a specified key in the current index - in much the same way as you can use the Goto feature in LocoFile to go directly to a particular record.

As with Goto, the record picked

out by the \$\$ command is the first one in the index with the key you give, so using the instruction:

\$\$ "Hamilton"

will pick out the first record in the index that has the Main Key Hamilton.

This instruction needs to go at the start of the Master document, immediately after the instruction that picks out the index LocoMail is to work with. Notice that we don't suggest putting this instruction in our Program Unit. If it were included in the Program Unit, the \$\$ instruction would tell LocoMail to pick out the first record with Hamilton as the Main Key each time the Program Unit is executed. The list you would get from that would simply contain the details from this first record repeated over and over again hardly the result you want!

In other words, instead of starting (+Mail) \$="Surname", the Master document to use here starts with:

(+Mail)\$="Town".↓ \$\$ "Hamilton".↓

The \$\$ "Hamilton" instruction skips all the records that come before the records you require. We also have to consider how to skip the records that come after the required records.

The solution to this problem is to change the item used to control how many times Prog_unit is performed. The Name item used so far was chosen to ensure that LocoMail would work through to the very end of the datafile. (We assumed that the Name item wouldn't be empty in any record). You now want to use an artificial item that you can set to null once all the 'Hamilton' records have been processed.

Suppose you used an item called Control. This Control item would have to be set to some value before the data records start being processed, so you would need some instruction like:

Control = "Not null"

before the Perform instruction. (We've used "Not Null" and ""representing null, but you could equally well use 1 and 0 as 0 and null have the same effect here).

To make Control null at the end of the batch of Hamilton records, you need to add instructions to the basic Program Unit so that it tests whether the Town item is still Hamilton and if it isn't, set Control to null. Again, this involves using the # Town = "Hamilton" instruction, but this time you want LocoMail simply to set Control to "" (the way null is signified in a LocoMail instruction) when Town is not Hamilton.

To complete our program, we've added one more instruction:

(+Mail) \$="":\$\$ 9999999(-Mail)

This is simply a way of tricking LocoMail into jumping to the end of the datafile once all the 'Hamilton' records have been found. What it does tell LocoMail to select the record number index and then move to a very high record number - in practice, the end of the datafile.

On the next page, we've given the complete LocoMail program, along with sample records from a datafile and the finished result.

THE NEW LOCOMAIL COMMANDS

Two new commands have been introduced to allow you to use the indexes in a LocoFile datafile from LocoMail, \$= and \$\$.

\$= index-name \$\$ main-key \$ sub-key

(with the \$ sub-key part of this instruction optional).

As you might expect, you can give the *index-name*, *main-key* and *sub-key* details either explicitly in the instruction (as "details") or you can give the name of an item holding this information or you can simply put ?;prompt to tell LocoMail to stop and wait for you to type in the name you want.

However, while you can use \$\$?; prompt to fetch the details, the drawback to this instruction is

that you can only add; prompt for the Sub Key. A better solution is to set up a couple of instructions to store the details as items and use the item-names in the \$\$ instruction. For example:

mainkey=?; prompt subkey=?; prompt \$\$ mainkey \$ subkey

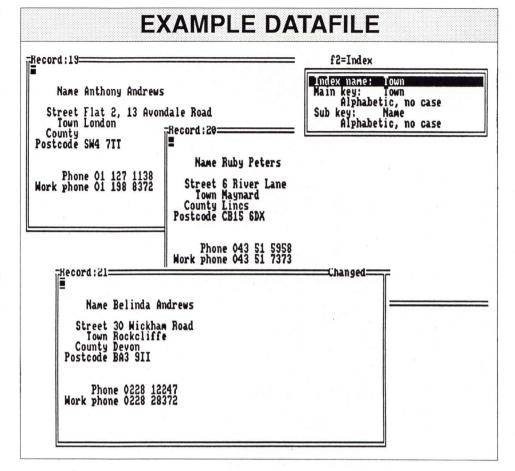
Possibly the best way of thinking about the \$= and the \$\$ commands is to compare their actions with using indexes in LocoFile itself.

The \$= command is like using the f2 Index menu in LocoFile to set the current index. You give the name of the index that you want to work with and this then defines the order in which records are picked out from the datafile. For example, the instruction \$="Surname" selects the Surname index. When LocoMail moves on to the next record either at the end of a pass through the document or because of a \$+ command, the record to which it moves is the next record in the specified index - just as if you were using the Page key to step through the records in LocoFile.

The only difference between \$= and the f2 Index menu is that \$= automatically moves to the first record in the specified index (unless this index is already the current index, in which case the record you are on doesn't change). When you select a different index in LocoFile, the record displayed on the screen doesn't change.

The \$\$ command is like using the Goto menu to tell LocoFile to display a particular record. You give the key in the current index for the record you want LocoMail to select and LocoMail jumps straight to this record.

For example, \$\$ "Smith" tells LocoMail to go straight to the record in the current index which has the Main Key Smith. If the current index is one that has both Main Keys and Sub Keys, then you can give LocoMail both the Main Key and the Sub Key for the record you want - again, just like



Goto. You do this by tagging the Sub Key on the end of the \$\$ instruction as follows: \$\$"Smith"\$"Joe" etc.

One important thing to note about using the \$\$ instruction is that, as with Goto, if the record you specify isn't found, then the program picks out the record that would follow it in the datafile.

For example, if there were no record for Joe Smith, then the record actually picked out might be the one for John Smith. With Goto, you can see immediately whether the record you expected has been found. When you are using LocoMail, you don't automatically see this information and so, as a rule, you need to use further LocoMail instructions to check that the correct record has been picked out (for example, by using suitable # instructions).

Another thing to note about jumping directly to records is the effect of specifying a record which

is after the last record in the index. Unlike using the Goto menu in LocoFile, this doesn't position you on the last record. Instead, LocoMail positions you on a 'Null' record at the end of the datafile, in which all the items are null.

THE PROGRAM

Percentage Calculator

Any student or teacher with a PCW will find this type-in a great help in calculating overall exam percentages.

arks p/c by Keith Tarrant, is primarily designed for the use of teachers in compiling and percentaging their students marks at the end of a term, or year as appropriate. It provides for three categories of marks i.e. class marks, test marks, and exam marks. There is a consensus among teachers, to whom I have spoken, that this provision is adequate for most circumstances.

The program further provides for the calculating and percentaging of each category, the weighting of each category according to the teachers own assessment, and the printing of the result under the students name.

The instructions are simple:

Load basic

At prompt "OK", type RUN "MARKSPC"

Answer the questions on the screen and press RETURN, if any answer is ZERO, press RETURN, which will take you on to the next question or category. To print out results, follow the instructions on the screen.

With a few minor changes, any CPC or PC owner should be able to convert this program to their machine.

```
10 PRINT CHR$(27) + "E" + CHR$(27) + "
H**
                                      MA
20 PRINT "
RKS PERCENT PROGRAM"
30 PRINT
40 PRINT "
             $ JUNE 1988 BY KEITH TARRA
NT "
50 PRINT
60 INPUT "STUDENTS NAME
                           ": NAMES
70 INPUT "POSSIBLE CLASS MARKS
80 IF T<=0 THEN GOTO 250
    INPUT "CLASS MARKS
                         1"; C1
     INPUT "CLASS MARKS
                          2"; C2
100
     INPUT "CLASS MARKS
                          3"; C3
110
120 INPUT "CLASS MARKS
```

```
130 INPUT "CLASS MARKS
                          5": C5
140 INPUT "CLASS MARKS
                          6"; C6
                         7"; C7
150 INPUT "CLASS MARKS
160 INPUT "CLASS MARKS
                          8": C8
170 INPUT "CLASS MARKS
                          9": C9
180 INPUT "CLASS MARKS 10"; C10
190 INPUT "CLASS MARKS 11"; C11
200 INPUT "CLASS MARKS 12"; C12
210 M=(C1+C2+C3+C4+C5+C6+C7+C8+C9+C10+
C11+C12)
                                    ";:P
220 PRINT "TOTAL CLASS MARKS
RINT USING "###. ##": M
230 P=(M/T*100)
                                    ";:P
240 PRINT "PERCENTAGE
RINT USING "##. ##%"; P: PRINT
250 INPUT "POSSIBLE TEST MARKS
                                    "; H
260 IF H<=0 THEN GOTO 430
270 INPUT "TEST MARKS
                                  1"; H1
                                  2": H2
280 INPUT "TEST MARKS
                                  3"; H3
290 INPUT "TEST MARKS
                                  4"; H4
300 INPUT "TEST MARKS
                                  5"; H5
310 INPUT "TEST MARKS
                                  6": H6
320 INPUT "TEST MARKS
                                  7"; H7
330 INPUT "TEST MARKS
340 INPUT "TEST MARKS
                                  8"; H8
                                  9"; H9
350 INPUT "TEST MARKS
                                 10"; H10
360 INPUT "TEST MARKS
370 INPUT "TEST MARKS
                                 11"; H11
                                 12"; H12
380 INPUT "TEST MARKS
390 J=(H1+H2+H3+H4+H5+H6+H7+H8+H9+H10+
H11+H12)
                                    ";:P
400 PRINT "TOTAL TEST MARKS
RINT USING "###. ##"; J
410 K = (J/H * 100)
420 PRINT "PERCENTAGE
               "##. ##%"; K
PRINT USING
430 INPUT "POSSIBLE EXAM MARKS
                                    ": F
440 IF f<=0 THEN GOTO 610
```

450	INPUT	"EXAM	MARKS	QUESTION	1"; E1
460	INPUT	"EXAM	MARKS	QUESTION	2"; E2
470	INPUT	"EXAM	MARKS	QUESTION	3"; E3
480	INPUT	"EXAM	MARKS	QUESTION	4"; E4
490	INPUT	"EXAM	MARKS	QUESTION	5"; E5
500	INPUT	"EXAM	MARKS	QUESTION	6"; E6
510	INPUT	"EXAM	MARKS	QUESTION	7"; E7
520	INPUT	"EXAM	MARKS	QUESTION	8"; E8
530	INPUT	"EXAM	MARKS	QUESTION	9"; E9
540	INPUT	"EXAM	MARKS	QUESTION	10"; E10
550	INPUT	"EXAM	MARKS	QUESTION	11"; E11
560	INPUT	"EXAM	MARKS	QUESTION	12"; E12
570 G=(E1+E2+E3+E4+E5+E6+E7+E8+E9+E10+					
E11+	E12)				
580	PRINT	"EXAM	MARKS		" ;:
PRINT USING "###. ##"; G					
590	D = (G/F)	*100)			
600	PRINT	"EXAM	MKS %		";
:PRINT USING "##. ##%"; D: PRINT					
610	INPUT	"CLASS	MKS %	OF TOTAL	"; A
620	O= (P*A	/100)			
	PRINT			KS %	";:P
RINT	USING				
640			MARKS	% OF TOTA	L ";L
650	N = (K * L	/100)			
660	PRINT	"ADJ T	EST MA	RKS %	";:P



RINT USING "##. ##%"; N
670 INPUT "EXAM MKS % OF TOTAL "; Q 680 R=(D*Q/100)
690 PRINT "ADJ EXAM MKS % ";:P
RINT USING "##.##%"; R
700 S=(O+R+N)
710 PRINT "TOTAL ADJ MARKS % ";:P
RINT USING "##.##%";S
720 PRINT "TO PRINT RESULTS TYPE 'Y' -
OR 'X' TO QUIT"
730 A\$=INKEY\$
740 IF A\$ = "Y" THEN 770 ELSE IF A\$= "
y" THEN 770
750 IF AS="X" THEN 10 ELSE IF AS="x" T
HEN 10 ELSE 730
760 END
770 LPRINT "STUDENTS NAME "; NAME\$
780 LPRINT TAB(5) "POSSIBLE CLASS MARK
S ";:LPRINT USING "###.#";T;
790 LPRINT TAB(38) CLASS MARKS ";:LPR
INT USING "###.#"; M;
800 LPRINT TAB(62)"PERCENTAGE ";:LPRI
NT USING "##. #%"; P
810 LPRINT TAB(5) "POSSIBLE TEST MARKS ";:LPRINT USING "###.#";H;
820 LPRINT TAB(38)"TEST MARKS ";:LPR
INT USING "###.#"; J;
830 LPRINT TAB(62) PERCENTAGE ";:LPRI
NT USING "##. #%"; K
840 LPRINT TAB(5) "POSSIBLE EXAM MARKS
";:LPRINT USING "###.#";F;
850 LPRINT TAB(38) "EXAM MARKS ";:LPR
INT USING "###. #"; G;
860 LPRINT TAB(62) PERCENTAGE ";:LPRI
NT USING "##.#%"; D
870 LPRINT "WEIGHTING C/MARKS ";:LPRI
NT USING "##. #%"; A;
880 LPRINT TAB(28) "WEIGHTING T/MARKS
";:LPRINT USING "##.#%";L;
890 LPRINT TAB(56) "WEIGHTING E/MARKS
";:LPRINT USING "##.#%";Q 900 LPRINT "ADJ CLASS MARKS % ";:LPRI
NT USING "##.#%";O;
910 LPRINT TAB(28)"ADJ TEST MARKS %
"::LPRINT USING "##. #%"; N;
920 LPRINT TAB(56)"ADJ EXAM MARKS % "
::LPRINT USING "##. #%";R
930 LPRINT TAB(56) "TOTAL ADJ MARKS % "
;:LPRINT USING "##.#%";S
940 LPRINT " "
950 GOTO 730
960 END
970 PRINT "
ARKS PERCENT PROGRAM"

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ENTERTAINMENT

Reviewed this month:

- · Black Tiger
- · Test Drive II
- · Epyx Action
- Dr. Doom's Revenge!
- · P-47 Thunderbolt

- · Rainbow Islands
- · Defender of The Crown
- · Crime Wave
- · If it moves, shoot it!
- · Hard Drivin'



BLACK TIGER

Capcom's barbaric beat-em-up is here

CPC Disk - \$39.95 CPC Tape - \$29.95

Long ago, when the world was a dark and evil place, out of a black and troubled sky emerged three fearsome dragons - creatures from hell, bearers of destruction, flame, fire and torment. The world was plunged into an age of devastation and misery. Only one man had the courage, power and skill to challenge these servants of Lucifer. He was known only as Black Tiger.

Black Tiger is a fantasy oriented platform scroller in the same mould as other Capcom releases, namely Strider and Ghosts 'n' Ghouls. Mr. Tiger must jump and slash through the various levels in order to defeat the dragons from hell and thus save the world and lives of all mankind (yawn).

Armed only with a mace and some light, but trendy armour, things can get a little heavy going. But heavier maces, stronger armour, potions and keys can be bought or given to you by old men who have been imprisioned in ice by the demons (yeah, you've got to thaw them out first). Magic tokens and zenny coins can also be collected by breaking open chests and jars that appear along the way.

Being a fantasy arcade game, there are a wide variety of creatures to be overcome including skeletons, goblins, fire-breathing mummies, fire demons, spinning skulls and man eating plants named Audrie's (sound familiar?) The levels are short but complex, with plenty of running, jumping and climbing involved before you take on the end of level guardian.

The graphics throughout are reasonably detailed, and the scrolling is smooth enough, but



everything is displayed in a dull green which makes it very difficult to see characters against the background objects. There are no sound effects, but an ok tune plays throughout.

I remember the hack 'n' slash thrills of the coin-op quite well, and although US Gold have managed to convert the general structure of the game to the CPC, they've captured little else. If you want a good platform game, check out Rainbow Islands on page 33.

TEST DRIVE II

Accolade's classy car sim arrives

CPC Disk - \$44.95 CPC Tape - \$29.95

TEST DRIVE originally hit the home computer screen some years ago but never, sadly, made the transition to the CPC. It would appear that ACCOLADE have now decided to support our beloved format, and have released THE DUEL - TEST DRIVE II for the CPC.

THE DUEL gives you the choice to race in and against one of two high performance motor vehicles. There is the now familiar Ferrari F40 (as seen in CRAZY CARS II and TURBO OUTRUN) and the newcomer to the home computer, the Porsche 959. As well as choosing which car you want to drive, you also get to choose the car your computer opponent will drive. Once selected, however, you can't change without reloading the game. Next it's into the intro screen where you get to select the method of control and the level of difficulty (there is a choice of 12). Your car is either automatic or manual, depending on the difficulty level chosen, and you get a chance to race against the clock or a computer opponent.

Now to race, WARNING: don't rev too high or you will blow your engine, and your rear view mirror will fill with smoke. Other than that, racing is pretty easy with left/right controlling the direction, while up/down control the speed (in a manual, fire changes gears). There are five sections in the race, varying from 2.6 miles to 6.0 miles. To complete a section

The Ducel

TEST DRIVE II

Accolacle

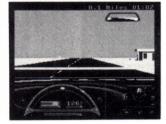
Supports Anstrud

CPC 6128,
Requires:64KMemoy

you must stay on the road, passing other motorists and avoiding the cops. All sections are flat, and the only difference is that in sections two and four you have to drive part of the way along the side of a cliff.

You view the action from inside the car where you are surrounded by your cockpit. All the standard instruments are there, from a steering wheel to gear shift. Although the wheel doesn't turn, there is a yellow light that moves around the wheel to show





· Which car will it be?

· Pull into the station.

you how far it is being turned. The gear lever goes up and down smoothly, while the addition of a rearview mirror is good.

Two other features are worth noting. First is the radar detector, which is situated above the windscreen on the left. If it flashes, it means that you are on the radar of some cop, and you had better slow down if you don't want a ticket. If it isn't flashing, it means you are about to be booked. The second feature is also above the windscreen, and shows your position relative to the race distance, your opponents car, or any cop cars. This is essential when trying to win a race, as you can judge the amount of speed needed to win from the relative positions of all the cars.

Graphically, THE DUEL is not bad. The detail of the car interior is good, and the sprites of the other cars are also good. Cop cars are white, but all the others are blue, no matter what vehicle they are supposed to be. Scenery is pretty basic, with only guideposts and cacti present. Sound is limited to an almost sewing machine like engine noise, and the inevitable crash.

THE DUEL differs from other racing games on the market in that you are actually in the car, and not looking down from the rear. There are other car and scenery discs being developed for this game, but their availability for the CPC is not known. If they are, this system will be good, but if they aren't this game will quickly lose its appeal, as all the sections are bland and repetitive.

THE DUEL is not a bad racing game; it's just a pity it has been released at the same time as some great racing games.

But it's worth a try.

EPYX ACTION

A sporting compilation for the CPC

CPC Disk - \$49.95 CPC Tape - \$39.95

Compilations seem to be the flavour of the month at present for the computer games industry. Each month someone has four, five or six games, all of varying quality, bundled together into one package. EPYX, famous for their Olympic games simulators, and US. GOLD, famous for their action games, have joined together to produce a compilation, called EPYX ACTION, which contains sporting and action games in the one pack. The pack contains two discs and an enormous instruction sheet that explains the games, and the result is a fairly mixed bag.

The first game is IMPOSSIBLE MISSION II. In this, you guide your man via lifts around the enemies towers, hunting for access codes and a music code, all of which is necessary to complete the game. These codes are hidden in the furniture in each room and you must search these objects to get the code. Bonuses are also hidden in the rooms and are useful for avoiding the enemies robot defenders. Perhaps the best of the pack.

4 X 4 OFF ROAD RACING is the next offering. In this, you can compete in one of four different trucks, either standard or customised, over four different tracks. Not a bad racing game, where you start from the back of the pack and have to battle your way to the front. Each track is divided into sections and you can carry out your repairs at these stops.

The first of the multiple games is CALIFORNIA GAMES; sort of an Olympics by the sea (Wot, no Beach Boys?). Here you get to compete at skate boarding in the half-pipe, the foot bag, surfing, roller

skating, BMX racing and the flying disc (frisbee). All the standard EPYX options (i.e. practice, compete in one or all events etc.) and a mix of mode 0 and 1 graphics. A games program with a difference.

THE GAMES - WINTER EDITION takes you to the winter Olympics with all the standard EPYX options. Once you decide to compete, you get the opening ceremony, decide your country (with national song) and compete in either the luge, figure skating, ski jump, cross country skiing, downhill or slalom. Each event is followed by the medal ceremony, and the final event by the closing ceremony. The standard mix of EPYX graphics are also present. A lot of different games in one program.

The final offering in the pack is, I believe, the weakest. STREET SPORTS BASKETBALL allows you to choose from four different outdoor courts and to select your own team. A standard basketball game with each team comprising three players. The big let down here is the poor graphics. Not very well done at all. All things considered, EPYX ACTION is not a bad compilation. You get a lot of game play in this offering, with each of the GAMES offering hours of entertainment. Graphics vary from good to poor, and there is a distinct lack of background sounds in some of the games. When you consider that you are getting five games for about \$10.00 each, compilations are the way to go. This is a good offering, if you forget the poor quality of STREET SPORTS BASKETBALL. There's plenty to keep you busy for hours here, with a mix of sports and action.

DR. DOOM'S REVENGE!

Cap and Spidey fight on thanks to Empire games

CPC Disk - \$39.95 CPC Tape - \$29.95

The sinister Dr. Victor Von Doom, monarch of Latveria, has masterminded and executed the theft of a U.S. nuclear missile. Doom plans to launch the warhead at New York City if the United States does not surrender to him. The Amazing Spider Man and Captain America plan to stop the launch of the missile and apprehend the evil Dr. Doom. Only the most skilled and powerful Super-Heroes could survive such a test. Doom has contracted some of the most dangerous Super-Villains of all time to guard the castle complex, so our heroe's struggle will be a long and perilous one.

Yes, Dr. Doom's Revenge brings back many characters from the old Marvel comics that I'm sure everyone has read from one time to another. Doom's fortress is guarded by such villains as Eduaro Lobo, Grey Gargoyle, Machete, Boomerang, Oddball, Rattan, Electro, Hobogoblin, Rhino and Batroc.

The game involves you taking control of Spider Man and Captain America and infiltrating Doom's Fortress. Spidy must locate and disarm the stolen missile, while Cap goes in search of Doom himself. You alternate between the characters as each comes across one of the villains. A game such as this sounds like a great idea, but sadly, it's no more than an average beat-em-up.

Upon meeting a villain. You must defeat him in one to one combat. A series of fighting moves are available through the joystick, plus Spidy can use his webs, while Cap can throw his shield. The villains can use whatever gadgets they have at hand. Apart from that, it's plain fisticuffs folks. The graphics throughout are great with plenty of cartoon sequences between levels, but the gameplay is slow and awkward. You get a great Marvel comic in the packaging. But the game itself is pretty average.

P-47 THUNDERBOLT

Historical shoot-em-up from Firebird

CPC Disk - \$39.95 CPC Tape - \$29.95

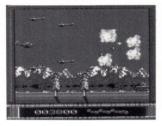
The P-47 Thunderbolt was one of the best, and biggest, fighter planes developed in the U.S.A. during the Second World War. It appeared in combat in 1943 and soon won a reputation as a tough and rugged machine. The introduction into service of the P-51 Mustang saw the P-47 relegated from its original role of high level interceptor fighter to mainly ground attack roles, and earned it the affectionate nickname of the 'JUG'. It is this aircraft that is the star of the JALECO arcade game, translated to the home computer by FIREBIRD.

Upon loading the game, the first thing you notice is that the loading screen is a good representation of the cover art, and shows a P-47 attacking a train. Next you get the title screen, and here you get the chance to define the keys that you want to use. Pressing fire brings up a well drawn graphic of a twin engine plane, and then it's into level one. Level one sees you, at low level, over the country-side of NW Europe. Armed with only your machine guns, your P-47 starts its patrol. You have to shoot down enemy planes and destroy flak guns before you can get to the end of the level. Naturally, you'll have to do that. The additional weapons are bombs, multi-warhead missiles or multi-missiles, and extra lives. At the end

THUNDERBOLT

of level one you must destroy a train, which takes numerous hits before it erupts into a huge fireball.

Level two sees you patrolling above the clouds, with a very picturesque setting (or rising) sun in the background. The action is more of the same, but this is the level that features the appearance of directable fire. Pick up this and you can destroy whole squadrons of the enemy with little effort. It's also very effective against the V-2 rockets that burst through the clouds at you. End of level enemy is a big bomber, and again multiple hits are required. Level three is back at low altitude, with a huge tank being the end of level enemy. Level four is over the ocean,





· Heavy fire on level one.

· The sun sets over our hero.

with more planes and rockets to destroy and, at the end of the level, a gigantic battleship. The remaining four levels are much the same, but I haven't managed to complete them yet, so I don't know what you have to destroy.

Controls for P-47 are easy, with up, down, left, right and fire being all that's needed. Sonics are limited to a jaunty intro tune and the standard ingame explosions. Graphically, well this is where P-47 stands out.

Too often are we presented with 16-bit games which feature beautiful backgrounds, only to see that the 8-bit conversion just sports a black background screen (SILKWORM from VIRGIN is an example). Well FIREBIRD have outdone themselves here, as they have transformed the detailed backgrounds from the 16-bit and arcade versions into the CPC version. In addition, the sprites are good.

Your P-47 although a little squat, is very well done and is in 3D, so that you can waggle your wings after each of your victories, if you have time! The detailed graphics may make it run a little slow, but this doesn't detract from the game.

I'm not normally a big fan of scrolling arcade games of this type, but this game could very well change my mind.

The detailed graphics, the addictive shooting and the challenge to see what is at the end of each level could keep me playing for some time.

Go on, jump in your JUG and reach for the sky, if you dare!

RAINBOW ISLANDS

Ocean's conversion sends the playability meter off the scale!

CPC Disk - \$39.95 CPC Tape - \$29.95

In a strange and mysterious land far, far away, lies the Rainbow Islands. All of which, sadly, are being flooded (greenhouse effect maybe?). A small, nameless boy decides to explore the islands before they sink forever into their watery grave, but unfortunately, the local inhabitants are not as friendly as he expected.

Rainbow Islands, the sequel to Bubble Bobble, has got to be the best platform arcade/scroller to date for the CPC. Super Wonderboy, Dynamite Dux, and any other game of this type will have to take a back seat sorry.

Our waddling hero must cross the several sinking islands before he reaches home, high and dry. The islands are Insect Island, Combat Island, Monster Island, Toy Island, Doh's Island, Robot Island and Dragon Island. All are fairly self explanatory except for Doh's Island, which is a retirement village for the

sprites from "Arkanoid" (ah, gone but not forgotten).

The local residents follow the theme of their accompanying island, and all are particularly nasty. But our hero is not worried by this (well, not much), because he can throw rainbows! The



· Careful, helicopter behind you!

enemy have a strong dislike for these, because one touch turns them into one or more of the basic food groups.

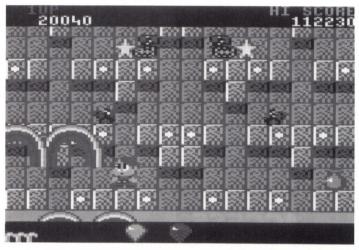
Each section begins at ground level, and our hero must work his way up the screen, jumping from platform to platform while spreading seven colours through anything that moves. If you reach a gap that is too large to jump between, no problem! Just throw a few rainbows out in front of you and walk across, but beware, they only last for a short time before disappearing.

Various objects can be collected along the way that include magic shoes (makes you run faster), red potions (lets you throw more rainbows at a time), yellow potions (speeds up your rainbow throws) and magic stars that destroy all enemies around you. As mentioned, enemies turn into food when hit, which will earn you points when collected, but you will have little time for this in later levels when you spend most of your time just progressing (although you still have the chance for a mass pig-out at the end of each).

At the end of every few levels, you will confront the island guardian, be it spider, tank, dragon or whatever. After successfully pounding it with rainbows, you will move on to the next island. You won't have

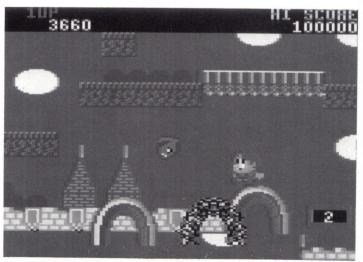
much time to spend during each section, as the water level is constantly rising around you, and if you dawdle, a sudden fall on a later level will see you in the drink.

The graphics and animation throughout the game are spot on. The background and enemy sprites all move smoothly, while the graphics are tremendously colourful and surprisingly distinctive (did they have to be so cute though?). There are little sound effects



· Getting serious on combat island.

to speak of, as a jolly background tune plays throughout and changes during the game. The conversion of the coin-op has been done right down to the secret room on each island! Everything does what it should do and I can't fault the game at all. Until some future release forces me to eat my words, I can safely say that Rainbow Islands is THE platform arcade game to beat.



· Rainbow hopping in level one.

DEFENDER OF THE CROWN

Cinemaware's Medieval epic is converted to the PC

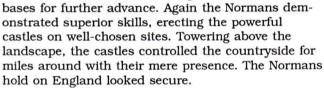
PC Dual - \$69.95

The age of chivalry, when Knights were brave, villains were despised, and damsel's were... PHWOAR! But seriously, the King has been murdered and England thrown into civil war! Amidst the ringing clash of steel and the thunder of charging steeds, the bold Saxon knights have been chosen to lead the people into battle against the hated Normans. Victory will not come easy. To save England, your skills as a swordsman and military leader will be tested to the full. But should you succeed, you'll win the Crown of England and the love of many a beautiful damsel!

Cinemaware's Defender of the Crown was the first in a series of "interactive movie" games and is basi-

cally a mild strategy game, combined with arcade sequences and plenty of pretty pictures.

The time is several hundred years ago. Norman forces defeated the English in a long and bloody battle. They constructed dozens of fortresses to consolidate their gains and provide



In the shadows of Sherwood forest, four Saxon overlords plot their revenge in the safety of Robin Hood's camp. Here you have the chance to select

your character: Wilfred of Ivanhoe (a charismatic, Errol Flynn type), Geoffrey Longsword (a dashing swordsman), Cedric of Rotherwood (a brave leader) and Wolfric the Wild (an excellent jouster and doer of knightly things). All have their own castles and territories, while the Normans occupy the rest of

England (except Sherwood).

On starting, you will have precious little land and soldiers, as well as a meager income to maintain them. A Campaign army must be built and sent fourth. Campaign armies are mostly made up of soldiers and vassals, either bought or collected from allied territories. Knights can also be recruited, but at a price.

Unoccupied land can be easily overtaken, while allied territories can be crossed safely with the aid of a messenger (allies they may be, but don't forget that there are four leaders and only one throne). Entering an enemy territory will mean certain conflict.

Battles are displayed in a side-on view, while you

select your fighting tactics from a menu of options: outflank, ferocious attack, retreat etc. If won, you will take control of the territory and its income. If lost, your army will be slaughtered and your courage will be weakened.

After successfully capturing a Normans territory, and amassing enough men and income, you can try capturing a castle. For this you will need one or more expensive catapults, which are wheeled into place around the enemy fortress. Boulders, fire bombs, dead horses and just about any other inanimate object can and will be used to penetrate the castle and make a way for your men. If successful, the castle and its occupants will be vulnerable to attack and can be easily overtaken. A successful capture will result in the ownership of the castle and its income, plus all surrounding land owned by the previous occupant.

If you manage to seize all the Norman castles, the Saxons will have won and you will reign as King of England, but if your own castle is overtaken, your struggle will come to a sudden end.

During the game, you or any of the other Saxon or Norman lords can hold a jousting tournament, where

chivalry requires all
Knights to attend. You
can joust for fame or
land, as skill with a lance
can sometimes prove to be
more effective than the
largest army! You can also
collect income and treasures by simply raiding
castles. Robin Hood has



vowed to help you three times during the game, and an excellent swordsman like Geoffrey Longsword can make a living from successful raids alone. Who knows, you may even rescue a Saxon maiden. Your future wife perhaps?

It's hard to give an overall opinion on Defender of the Crown. It was a real stunner when released for the Amiga some four years ago, and I remember spending many late nights following the perils of our Saxon friends. The many action sequences combined with a strategy element certainly make this a huge game, but the "interactive movie" theme tends to give the game a very watered down feel, as the action is varied but predictable. Another gripe is the graphics. Although very good (EGA), this game was one of the biggest graphic spectaculars ever to hit a micro, so where's the VGA? (not impressed sorry). But all in all, the game is pretty classy stuff, and I can't see many people being disappointed, as it is regarded by many as a classic, and deservedly so. Hopefully more Cimemaware products will be converted to the PC.

CRIME WAVE

PC 5.25" or 3.5" - \$69.95

Access are back with an awesome dose of arcade action

New York 1995. A powerful crime syndicate has taken over large areas of our major cities, turning them into vast criminal wastelands. Arson, extortion, drug distribution, murder and now... terrorist abduction! You have just learned that they have taken the President's daughter and are holding her and our country hostage.

Your mission: To wipe out this criminal organisation and rescue the President's daughter. Even with the most sophisticated assault technology available, it won't be easy. You are the only one that can save the country from this sinister infestation...

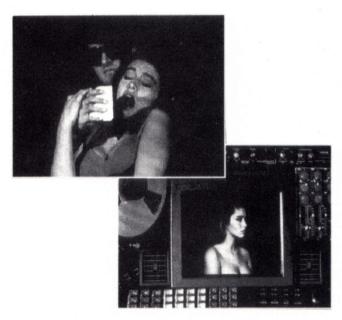
Remember Mean Streets, the brillaint sci-fi epic from Access? Well, Crime Wave is in a very similar mould. Except, while Mean Streets has a Bladerunner like detective style, Crime Wave focuses more on the gratuitous, kill'em side of our supposed future. Not that I object mind you.

There's no detective Tex Murphy character here, instead there's an ominous-looking grunt with a very big gun, and he's not afraid to use it.

The game then opens with a short introductory sequence, showing the President's daughter being kidnapped by the mob. A news broadcast then alerts our character of the crisis. Having nothing better to do, he load's up his UZI and decides to take on the

mob single handed.

From then on, our character must fight his way through screen after screen of non-stop arcade action. The scene opens at a subway station, and then moves through urban backstreets, warehouses, underground complexes and eventually the hideout itself, where King Pin is holding the President's Daughter hostage.



Each level will require almost continuous machine gun fire, as the attackers will appear by the dozen, and from any cover they can find. They range from trigger-happy mercenaries to skilled Ninja's and psycotic, knife-weilding maniacs.

Extra's such as more powerful guns, rockets, ammo, drugs, money as well as extra energy and lives can be picked up along the way, which proves to be invaluable, as you will use all these rapidly (drugs and money excepted). Flashing green arrows will indicate the nearest exit as well as bonus rooms.

Bonus rooms are filled with extra ammo and money, but are usually rigged by some electronic device such as electrified floors and lasers. On completing each level, a short sequence will fill you in on your current position and the whereabouts of the President's daughter.

The graphics and sound throughout, are truly state of the art. A sampled soundtrack and effects give the game an enormous boost, whilst all the graphics are digitised, right down to the last character. You can't get any more realistic than this.

Crime Wave may not be the first game of this type, but it is certainly the best. Let's hope Teenage Mutant Ninja Turtles will be this good.

IF IT MOVES, SHOOT IT!

Broderbund's spectacular shoot-em-up

PC 5.25" or 3.5" - \$59.95

Many eons ago, overcrowding and resource depletion of our own planet, forced our people to set out to colonize the solar system. The planet of Kort became a popular settlement, with a similar climate and ecosystem to ours. The native Korts, who were admittedly less evolved than ourselves, were slowly driven away and forgotten. Until now.

The Korts have returned with a massive fleet of spaceships chartered throughout the galaxy, and are



sworn to have their revenge. It's up to the new generation of settlers to defend our colonies from the long banished Korts.

If it moves, shoot it!, what an unimaginative name for a shoot-em-up. This game has been kicking about on other sixteen-bits under the name of "Phan-

tom Fighter", so why change it?

But names aside, Shoot It is a pretty impressive blast that gives even the mighty Xenon II a run for it's money. The game is basically a vertical scroller, with your ship sitting neatly at the bottom of the screen, ready to take on the alien onslaught. As you've probably guessed, your objective will be easy to master, but hard to complete. The enemy will attack from all directions. Smaller ships will snake their way across the screen in neat formation, while larger fighters will open fire from the front or behind. Guardian ships, well, they do pretty much as they please.

The enemy sprites are small, fast and ever-present. Although graphically impressive, they all seem to be

variants of the classic UFO theme, and never take on a truly menacing appearance. Most can be despatched with a couple shots, but larger fighters will require repeated hits. The end-of-level motherships are your

classic "shake the earth type", occupying a good part of the screen, and will take a lot of beating before they surrender in flames.

Extra weapons can be collected from pods that float down the screen. These in-



clude: Speed up's, fast lasers, double lasers, plasma bolts, sidefire and homing missiles. The gameplay is fast and frantic, and will require some pretty mean manoeuvers before any progress is made.

The graphics throughout are excellent, with some amazing looking backdrops to be covered. Level one is a sort of alien graveyard with huge, deformed skeletons poking out of the swirling sandstorm below. Later levels take you through strange inhabited caves and military hangars filled with large robots and machinery.

Although not quite as polished as Xenon II, Shoot It is just as playable and is a must for any shoot-emup fan. But a word of warning, progress is really difficult, and even the most hardened gamester will be shot down again and again. But with some practise and use of the continue option, you'll find this to be a great game.

HARD DRIVIN'

Atari's huge coin-op arrives on the PC

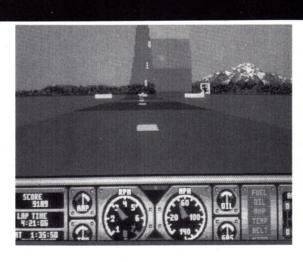
Leadfooter's rejoice as the PC version of Hard Drivin' is now here.

Unless you live under a rock, you will be aware of this stunt-driving supergame that has enjoyed so much success since it's release last year.

I'm proud to say that the PC version is about as close to the coin-op as you could possibly get. The whole course is here, right down to the last roadsign, and the glorious 3D polygon graphics move quickly and smoothly, as they should do.

Choose the speed track or the stunt track to compete on. Either way, you're in for a heck of a ride. A great conversion of a classic arcade game (check April edition for a full review of CPC version).

PC 5.25" or 3.5" - \$69.95







Q: WHERE CAN I FIND:

GOLD 1

Paperboy

Bombjack

GOLD 2

Battleships

Frank Bruno's Boxing

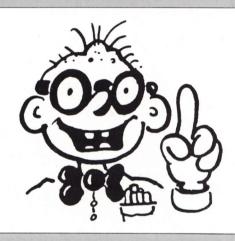
Airwolf

Turbo Esprit

First class, specially selected titles, including six, state-of-the-art coin-op conversions, THE world's greatest boxing simulation, four hit film and television inspired games, the computer version of the most played board game, the longest running chart entry to date, eight Gallup chart number one's and, just for good measure, two of the very best driving simulations ever released?

A: IN THE "THRILLTIME" COLLECTION OF COURSE! Probably the most attractive buy this year, the "THRILL-

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Batty

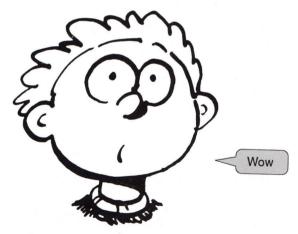
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Writing and Security

Joseph Elkhorne reviews two new publications, "Computers and Writing" and "Safe and secure computing systems".

ur first offering this month is a book titled "Computers and Writing" from Blackwell Scientific Publications, and was written by Noel William's and Patrick Holt. It is a collection of papers from the first UK conference on the

subject, in April, 1988.

The format is on an academic level and certainly not a practical guide to authorship. If you're interested in the process of writing considered from computational,

COMPUTERS
AND
WRITING

Noel Williams
Patrik Holt

cognitive and educational points of view, you may find it interesting.

Some of the topics covered are: Designing Computational Writing Tools, Developing a Writer's Assistant, Cognitive Models of Writing, Computer Assisted Essay Writing (in Norway, with English as a foreign language), Models of Writing, and Hypertext.

One gets the impression from some of the authors that they know stories and writers exist, but their approach is too esoteric. It seems not to have occured to them to ask practising writers for their approach to creative composition, nor even to peruse the countless 'how to' books that have been published on the mundane level.

Granted, those who do 'creative writing' will admit they themselves don't fully understand the creative process. Simple techniques and rules of thumb, nonetheless, are explicated well in a number of texts.

Dean R. Koontz, a professional author who writes in several different areas, did a book called "Writing Popular Fiction" which presents any number of practical ideas for story construction.

I wonder what he would make of the following presentation of "the number of universal plots", attributed to A. Koestler: The Promethean striving for omnipotence.

Polygonal pattern of libidinous relations.

War of the sexes.
Love triumphant or defeated.
The conquest of the flesh.

The book does contain some fascinating information, even if the slant and more than a little of the text is heavy going. Viewpoints and concepts which may never have crossed your mind are presented.

Philosophy of software for writing support and writing training is discussed in the first paper, with description of a postwriting system called RUSKIN. This is essentially a style analyser.

Other papers approach writing as a linguistic mode, or from a psychological and computational perspective, as a problem-solving activity, and one even questions if the computer can write a story.

Judging by two examples, I think we humans need not fear obsolesence from AI, at least in the conceivable future. Still, the discussion of the TALE-SPIN simulation is worth inspecting contemplating.

If you're keen on learning about current progress in this area, "Computers and Writing" will cost you \$47.00. Most of the papers contain a comprehensive bibliography for further reading.

SAVE AND SECURE COMPUTING SYSTEMS

At a price of \$112.00 I don't suppose there will be many takers for this text from Blackwell Scientific Publications.

Their previous book, "Computers and Writing", cost far less, and was only 162 pages, compared to this one's 248.

Both books have a similar look: hard bound, plasticised cover; reasonable paper; good typesetting; a nice format, and good diagrams.

My wife, who is a librarian, pointed out the thorough information on the copyright page and commented on the general quality appearance, as a book.

Whether the quality is worth the asking price depends on how valuable the reader finds the information. Certainly, the topics covered between those glossy covers - human safety and information security - could well be beyond any price.

As with the previous offering, the book comprises a collection of papers. These were given at the Safety and Security Symposium at Glasgow in 1986. The organisers the Centre for Software Reliability, hold that both safety for human beings and information integrity in computer systems are special cases of dependability.

Though this is definitely a specialist text, the general reader can still glean some information of interest from it. For example, a table in Chapter One lists a large number of computer-related failures - some of which have included loss of life, life-critical situations, and monetary loss.

As the book itself is copyright 1939, the information in this table

is quite up-to-date. The items include incidents in Australia, even. The mention of one or another virus, Trojan horse, or bank loss is overshadowed by the cases of lives lost because of hardware or software malfunction.

One could almost be forgiven an episode of 'future shock' in examining these references. You might chuckle at a mention of America's B-1B Stealth bomber, in which the ECM system jammed the aircraft's own signals. The report that Skylab 'fell out of the sky' because of sunspot activity affecting on-board computer systems is less amusing.

A \$32 billion dollar error will surely make you gasp. But these pale into insignificance in listings of human deaths: allegedly, six people killed due to a

malfunctioning robot; four, when a British missile downs a British helicopter; numerous reports concerning commercial aircraft, and some microprocessor failures in automobiles.

Other incidents cover public transport, nuclear power plants, medical equipment failures, election irregularities, insurance and bank frauds and bureaucratic foul-ups.

The various authors describe one or more aspects of the dual problems of safety and security. The complexity of these areas is pointed up, and partial solutions offered. The reader soon appreciate's that there is no such thing as a foolproof system.

If this book can contribute to the saving of even one human life, it is a worthwhile addition to a reference library. The specialist approach is beyond the scope of the average reader, but the professional should find it of value.

Safe & Secure Computing Systems

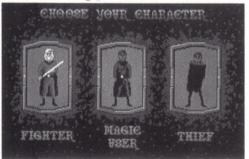
Edited by T. ANDERSON REVEALING MECHANISM FAULT COMBINING OPERATOR FAILURE BLACKWELL SCIENTIFIC PUBLICATIONS

A breath of Sierra -1

So you want to be a hero? In the first of our Sierra On-Line adventure specials, your wishes just might come true.

ou've got to hand it to the Sierra people - they really know how to produce a computer game. And that's what breeds their success. All those people who have bought a game from Sierra On-Line will know what I am talking about when I say that they are streets ahead of their competitors, especially when it comes to graphic adventures. Buy one and you're hooked!

Strangely enough, co-founder of the company, Roberta Williams, was less than interested in computer games until her husband Ken (now President of Sierra On-Line) brought home one of the first text-only adventures, and she found it fascinating. That was the turning point in both their lives -



Choose your character from three basic types.

some ten years ago. Prior to the launch of the IBM PCjr, IBM asked Sierra to produce a game which would demonstrate the capabilities of the then new machine. This gave rise to the first of the King's Quest Series (Quest for the Crown) and the beginning

of animated 3-D Adventures.

A great deal of coding has been tapped through keyboards since then with about twenty superb animated adventures available across various age groups and tastes, plus some Japanese bestsellers and others.

My job over the next six months or so is to bring you my impressions of some of the later and even latest releases. The trouble with reviewing adventures is that you must play them to the end to get a full appreciation.

This is no mean task and will often take months especially if you get "stuck" (Thank goodness for hint books!). In their wisdom, Sierra don't appear to give reviewers any clues so you'll have to accept that many hours work will have gone into getting my opinions onto paper. I am working on Conquests of Camelot at the moment with Sorcerian waiting in the wings.

For this first article I had the choice of looking at Colonel's Bequest, Codename Iceman or Hero's Quest.

The latter won! Perhaps, if space and time permits, I can include these two at a later date. By the way, the full title to the game is 'Hero's Quest 1 - So you want to be a Hero' and took some eighteen months to complete. With all that effort going into just one game you can understand why pirates are such damned parasites in the industry.

ROLE-PLAYING

Hero's Quest 1 is essentially a graphic adventure in the indisputable Sierra style and a role-playing game all rolled into one single game. You would not have experienced 'role-playing' in any other Sierra game before, so I'll explain the term.

Role-playing really means that your hero is able to develop characteristics or grow stronger in attributes as the game proceeds. For example, at the beginning of the game you may well have no climbing ability, so to reach an object up in a tree could result in many failures before the skill has developed enough to succeed. In the meantime all the attempts at climbing the tree will reduce your stamina or vitality. So this means you must have a rest before doing anything else. Similarly, you need to build a reasonable 'strength' level to fight some of the more difficult monsters. You would be killed immediately if you encountered such a beast at the beginning of the game. (Moral: save regularly).

Unlike the Advanced Dungeons and Dragons adventures HQ1 features just one active hero (from a choice of three). This makes life a little less complicated as you don't have to worry about the health or otherwise of numerous members of your party or band of adventurers. By no means does this detract from the playability of the game and most probably

pc feature

makes the game attractive to a wider range of would-be players.

SCENARIO

Speilburg, nestling in a peaceful valley, was ruled by the Baron von Speilburg. Everything was fine until the arrival of an evil ogress, Baba Yaga. She placed a curse on the town and filled the surrounding countryside with monsters of various shapes, sizes and ferocity. To make matters worse, the Baron's two children had disappeared.

Ten years or so had passed without any sign of a hero capable of returning things to normal. That is, until I (or you) arrive on the scene! Not that your arrival has any major impact on the townsfolk of Speilburg - they've seen adventurers come and go before. But you do have an edge on your predecessors as you have just graduated from the 'Famous Adventurers' Correspondence School.' This at least has provided some insight into exploring new worlds and living on your wits.

THE START

When the game has loaded and the introductory messages displayed, you can select between either a Fighter, a Magician or a Thief as the character for the quest. Each carries a 'ready-made' set of attributes, but they can be tinkered with as seen fit by apportioning an additional 50 points. I chose the fighter.

Questioning the townsfolk will reveal a great deal of information concerning the current situation and, coincidentally, briefly introduces a character who will feature more prominently in the HQ1 sequel. There are shops to check out and buy provisions if necessary, and, most important on an adventurer's list - a visit to the Adventurer's Guild.

Locations switch into view from the North, South, East and West. Whilst all the screens within the town will reveal something helpful, not all the buildings or characters will seem active or useful. This is because only the locations (or 'rooms' as Sierra calls them) which are relevant to the chosen character will come into play.

Having gained valuable knowledge, the true quest begins - release the town from it's curse, rid the land of the monsters and find the Baron's son and daughter.

THE CAST

Now, if anyone thinks that I am going to take them right through the game, they are mistaken. I may let slip a few pointers on the way, but I am not going to spoil it for anyone - you must earn your own stripes! I will tell you though that the secret is to save regularly and build up your skill levels. You'll also need to earn some money (golds and silvers). The land outside the town is basically forest in which lurks numerous "baddies" ranging from squat goblins to brigands. Monsters

come in different shapes and sizes from pink dinosaurlike creatures (Saurus) to a fearsome 'Cheetaur' with razorsharp claws. Each adversary requires a certain skill level to defeat it. A goblin or Saurus are the easiest foe (although this is not the case at the beginning of the game) and are useful to practice against, all the time building up skill levels to face more aggressive adversaries later

A fighter is armed with a

sword, shield and leather armour and has the ability to parry. thrust, dodge or duck depending upon the opponent. When a forest foe appears on the screen you can choose (if you are quick enough!) to fight or run away. If a fight is on, the screen changes to a view from behind the fighter who is facing the enemy. Successful hits on the enemy will decrease its 'health points' down to a critical red stage when just one more thrust will finish the job. Equally, your own 'health and stamina' points are displayed and are effected by telling blows from your opponent. Let them get down to the red danger level and you are likely to be killed. I found using a joystick was more convenient in tackling the enemy, but the keyboard is just as effective - it's your own choice.

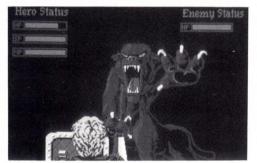
Not all the characters you meet will be dangerous, indeed, some



pc feature

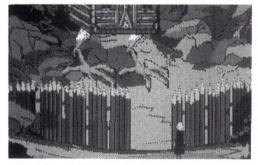
are very helpful. For example, the Healer will sell you potions which can restore your health after a particularly hard fight. But to buy them of course, you will need money.

You may wish to take on the role of Magic User or Thief instead of fighter. Each of these heroes require a slightly different allocation of the initial 50 bonus points.



· Encounter many different creatures.

Naturally the Magician needs to collect spells to use against monsters and the like and will be involved in a special 'Wizard's Game' with a swag of points if the winner. The Thief is an altogether wiley and dishonest character and needs to perform a few sneaky deeds to earn his points. Both characters have distinct and different extra game screens accessed only by that particular character.



Hero's Quest is full of surprises!

ANIMATION WITH HUMOUR

I have purposefully not mentioned all the characters you are likely to meet as part of the fun is discovering them for yourself. HQ1 has a full day-night cycle and certain characters only appear at night. One group is the Fairies. When they appear, just sit back and

enjoy the banter between them. (My children often load the game and restore at this point just to watch the sequence.)

You may have gathered that there are segments of the game which are fully animated and require no action from you other than to watch the screen. More often than not you will find them entertaining and at the same time be conscious of the writers' pervading sense of humour. A cheeky grin, an applause-seeking bow, an embarrassed red face or teeth gritted with determination all are subtle touches to the animation which bring a little more realism and lightheartedness to HQ1.

QUICK KEYS

One of the nuisances of older games was the necessity to type instructions in full, eg. "LOOK AT something" or "INVENTORY" (the latter to show what you are carrying). HQ1 carries refinements to the Sierra's ever evolving use of special keys to reduce the burden of typing.

For example, hitting 'Control' and 'A' will generate "ASK ABOUT" in the text area and all you need to do is to type in the relevant word. Similarly 'Control' and 'L' will generate "LOOK AT". 'Control' and T' will give you the time of day (very important to gauge how long you have to find somewhere to sleep before nightfall) and 'Control' and 'S' gives the current status of the hero (health points, skill levels, puzzle points etc.). The function keys uses have been retained to Save, Restore and so on. Just hitting the Space Bar will repeat the last entry typed.

THE CLIMAX

Moving from location to location, unearthing clues or solid information, performing tasks, collecting items and money, all the time building up strength and skills will eventually bring you to a point in the game where you must infiltrate the Brigand's Headquarters. This is not an easy task and can only be achieved by an experi-

enced hero. It effectively contains a series of puzzles/action which will have you hitting the Save and Restore keys far more often than you did previously. They are cleverly thought out and one in particular will leave you gasping for breath when you solve it. (Have you ever noticed how simple some puzzles are after you have solved them?).

The end-game ties up all the loose ends and everything you wondered about drops into place. Mark my words though, this final section is a real tester. It took me longer to complete these last few locations than all the others put together.

Having completed the game as a fighter, the next step is to have a go as a Magic User or Thief. HQ1 is almost like having three games in one package! With HQ2 on the drawing board, Sierra have provided the facility to optionally save your experienced hero with all the skills developed in this first game to be used in the sequel. Could be useful

SUMMARY

Once again, Sierra have produced a first-class 3-D animated adventure. It's provided in dual format (both 5.25" and 3.5" disks are supplied) and is suitable for CGA, EGA or VGA screens (or Hercules monochrome). I tested the game on an Amstrad PC2086 with VGA screen, hard disk and Ad-Lib Music Card. The latter enhances the music and sound effects beyond imagination and adds greatly to the overall atmosphere and enjoyment.

Sierra always seems to add a little extra 'something' to their games which not only sets them apart from their competitors (if any), but also seems to improve on their previous releases. Hero's Quest 1 is no exception. The puzzles are teasingly different and the graphics superb. It is truly a game for all ages, although children in the 8, 9 or 10 bracket may need a little help on the way.

Hero's Quest 1 is a winner. Buy it and get hooked like me! ■

MASTERFILE PC VERSION 3

Integrated Data filing, Document filing, Word-Processing, Mail-Merge

Every business has two kinds of filing requirement: data field-oriented which we call Data filing and free text which we call Document filing The traditional approach was to have one program for each - a database (DB) and a word-processor (WP). MASTERFILE PC has already established its reputation as a high-power relational DB at a popular price, but now with the version 3 we have added a powerful WP function. And since both DB and WP functions are managed by the one program, only one system of menus and dialogue need be learned, and there is a natural data-merge function to combine data with text into a mail-merge operation.

MASTERFILE-DB

Address lists • Sales Ledger • Bought Ledger • Inventories • Stock Control • Patient files • Job progress • Price lists • Bank analysis • Shares Portfolio • Photographic index • Property Details • Invoices

There are two main kinds of DB system on the market; those that require time and programming skills to set up and those that have virtually instant usability. MASTERFILE with its totally menu-driven approach is of the latter variety; and yet it offers huge flexibility in data presentation and manipulation.

MASTERFILE Data Filing is unusual in that it offers variable-length records within a direct-access file with a capacity of up to 16Mb or 32,768 records. There can be up to 80 data fields per record, each variable-length up to 254 characters, and data can be character, numeric, or date. Up to 32 user-designed screen/print formats can be used, so that from one data file you can present data as a summary index, and index card, mailing label, whatever, and add such effects as heading, boxes, panels. The relational aspect means that any record being displayed can pick up data from up to four other data files on a key-match basis.

An essential ingredient of a DB system is to be able to search the file and pick out records which match a given set of criteria. MASTERFILE's search functions are impressive and it can search on multiple criteria on any data (not just key fields), with speed and ease.

Arithmetic operations can be defined to operate on and derive numeric data e.g. taxes, percentages, price mark-ups. You can

even perform date-arithmetic such as is required for ageing of accounts and subscription renewals. The logic can include IF/THEN/GOTO constructs for the sophisticated user.

Printing is buffered, so that up to 5 pages of printing can be stacked while you use the program to get on with other tasks. Printer controls can be set to control style and pagination.

We could also mention sorting, import, export, encryption, passwords, date-stamping, serialising, and host of other features but we don't wish to bore you; if you wish to know more, just ask us!

MASTERFILE-WP

•Letters • Reports • Memos • Journal Extracts • Bibliographic references • Your Next Novel.

Just about every PC user already has some kind of WP system, but the chances are that yours is the kind where each document is a separate DOS file. With MASTERFILE, you can keep all your documents in one large DOS file (up to 16Mb), and manage all your letters, memos, journal extracts as individual documents on a private directory basis: except that our directory (we call in an Index) lets you have useful 30-character names and you can search on the basis of document name, date of last change, or on the text contents themselves. In effect MASTERFILE combines the searching power of DB with the free-format text handling of WP.

MASTERFILE WP Document file has its own selective back-up/restore system, and you can also import and export text files from and to other text systems.

MASTERFILE WP allows up to 6 documents to be open at a time, using the same window or different windows, any of which can be adjusted for size, position, style and colour. The basic WP functions are all there, and some novel ones too - such as 'spot' colour to highlight your text. You can tailor your own printer driver and expansion keys simply by editing two specially-named documents. Maximum document size is 64K, about 20 pages.

Printing options include multi-copy, partial print, pagination, headers and footers, left margin, system date/day/time stamps, serial

numbering. And you can arrange selective text insertion from a MASTERFILE DB file for a mail-merge and several-across label operations. Printing uses the same buffer system as DB, leaving you free to do other tasks while a document is being printed.

HELP AND LEARN

The detailed manual is augmented with tutorial and several demonstration files. And, for the new (or the forgetful) user, HELP can be summoned at the press of a key to augment whatever menu you are looking at. There is even a facility for customising your own HELP frames using the WP function. MASTERFILE can learn too! To program a function key, you just press the 'LEARN' key then use the system normally, then press the function key. Or, you can store the function key in the file for long-term use.

How can MASTERFILE combined DB and WP program run in only a 256K MS-DOS environment? The answer is because it is compact, being totally coded in Assembler unlike most other commercial software. If you have 512K or more, then MASTER-FILE will make even better use of the available RAM. And the minimum disc configuration? Just one floppy. But users with hard discs can take fullest advantage of the large capacity. And what about the monitor? Any type from monochrome to VGA, and yes of course you can customise your preferred colour scheme.

MASTERFILE PC will run any PC-compatible, including any Amstrad PC/PPC, and is available on 3.5" or 5.25" formats in two editions:

Standard: DB only, but with read-only/demonstration WP functions.
Full: DB + WP

You can start with Standard and upgrade to Full later. Campbell Systems in the U.K. also offer upgrades to registered users of MASTERFILE PC version 2 or earlier.

Prices, (excl P&P) are \$199.00 (Standard) or \$269.00 (Full). All mail order enquiries to:

The Amstrad User 1/641 High Street Road Mount Waverley 3149 Phone (03) 803 9661

or in Melbourne call at The Amstrad User computer shop, also at the above address.

Sounds clever!



John McNeill has provided us with this addictive numbers game that should keep GW-BASIC users happy for a while.

10

lever is a GW-BASIC 3.22 version of an old CPC program entitled "Box Clever". The program acts in the same way as the CPC version. You are given nine boxes to fill with random numbers, and when all nine boxes are filled, the smallest number should be on the left and increasing to the right, so the highest number should thus finish on the right.

An interesting feature has also been added. As the game is very hard to complete, there is an option for a chance. When a number doesn't fit, the player may have another number selected by pressing 0. This can be done up to three times in the first round and one is added to the remaining chances at the end of a round. Clever was written for use with a CGA monitor, but most programmers should be able to convert it to MONO.

Program name: CLEVER

Notes: Written for GW-BASIC 3.22

Uses CGA colour

Program Length: 148 lines

CLEVER
BY JOHN McNEILL

1 2 3 4 5 6 7 8 9
0 0 0 0 0 0 0

Chances : 3
Your Score Is : 0
Your Number Is : 15

Which Box Do You Wish To Put The Number In (1-9)
or [0] for Chance ?

```
20 'Clever
30 ' Conversion By : John McNeill
40 ' Basic Version : GW-BASIC 3.22
50 ' Requirements : CGA Monitor
60 ' Date
                   : 20-1-90
70 '
82 KEY OFF
90 SCREEN 2
100 SCREEN 0
110 COLOR 1,2,2
120 CHANCES=3:CLS
130
140 ' Goto Main Program
150 '
160 GOTO 590
170 '
180 ' Colors
190 '
200 COLOR 0
210 RETURN
220 COLOR 1
230 RETURN
240 COLOR 4
250 RETURN
260 COLOR 15
270 RETURN
280
290 ' Draw Boxes
310 LOCATE 5, X: PRINT CHR$ (218) +STRING$ (3,196) +CHR$ (191)
320 LOCATE 6,X:PRINT CHR$(179)+SPACE$(3)+CHR$(179)
330 LOCATE 7.X:PRINT CHR$(179)+SPACE$(3)+CHR$(179)
340 LOCATE 8, X: PRINT CHR$(192) +STRING$(3,196) +CHR$(217)
350 RETURN
360 '
370 ' Update Boxes
380 '
390 FOR BOXES=1 TO 9
400 GOSUB 250
410 LOCATE 6,X (BOXES) +2: PRINT USING #": BOXES
```

gw-basic type-in

420 COLOR 0 940 GOSUB 390 430 LOCATE 7.X (BOXES) +1: PRINT USING"##": BOX (BOXES) 950 FOR A=18 TO 20 440 NEXT BOXES 960 LOCATE A.1: PRINT STRING\$ (40,32) 450 RETURN 970 NEXT 460 ' 980 NEXT NUMBERS 470 ' Place Boxes 990 ' 480 ' 1000 ' Score Check 490 FOR XP=1 TO 9 1010 ' 500 READ DTA 1020 FOR A=16 TO 23 510 X(XP)=DTA 1030 LOCATE A,1:PRINT STRING\$ (79,32) 520 X=DTA: GOSUB 310 1040 NEXT 530 NEXT 1050 LOCATE 18,1:PRINT"SCORE CHECK" 540 DATA 6,14,22,30,38,46,54,62,70 1060 CHECK=0 550 RETURN 1070 FOR A=2 TO 9 560 ' 1080 IF BOX(A)(BOX(A-1) THEN CHECK=1 570 ' Main Program Loop 1090 NEXT A 1100 FOR DELAY=1 TO 2500: NEXT DELAY 590 GOSUB 240:GOSUB 490:GOSUB 260:GOSUB 390 1110 IF CHECK=1 THEN GOTO 1360 600 FOR Z=1 TO 9 1120 FOR A=16 TO 23 610 BOX(Z)=0 1130 LOCATE A.1:PRINT STRING\$ (79,32) 620 NEXT 1140 NEXT 630 GOSUB 260:GOSUB 390 1150 GOSUB 240 640 COLOR 14.1 1160 LOCATE 20.1: PRINT"ROUND COMPLETED" 650 LOCATE 2,35:PRINT"C L E V E R" 1170 SC=0 660 COLOR 15,0 1180 FOR POINTS=1 TO 9 670 LOCATE 4,24: PRINT"B Y J O H N MCNEILL 1190 SC=SC+BOX(POINTS) 1200 NEXT 680 COLOR 1,2 1210 GOSUB 220 690 FOR NUMBERS=1 TO 9 1220 LOCATE 22,1:PRINT"SCORE FOR THE ROUND : ":SC 700 RANDOMIZE VAL (RIGHT\$ (TIME\$.2)) 1230 GOSUB 200 710 NUM=INT(RND(1)*99)+1 1240 LOCATE 24,1:PRINT"Press Any Key !!!"; 720 FOR CK=1 TO 9 1250 WHILE INKEY\$="": WEND 730 IF BOX(CK)=NUM THEN GOTO 710 1260 SCORE=SCORE+SC 740 NEXT CK 1265 IF CHANCES (0 THEN CHANCES=0 750 GOSUR 240 1280 CHANCES=CHANCES+1 755 IF CHANCES(@ THEN GOTO 77@ 1290 FOR A=16 TO 24 760 LOCATE 16.1: PRINT "Chances : ": CHANCES 1300 LOCATE A.1: PRINT STRING\$ (79.32): 770 GDSUB 200 1310 NEXT 780 LOCATE 18,1:PRINT "Yore Score Is : ";SCORE 1320 GOTO 600 790 GOSUB 220 1330 ' 800 LOCATE 20.1:PRINT "Your Number Is: ":NUM 1340 ' Game Over 810 GOSUB 240 1350 ' 820 LOCATE 22.1: PRINT "Which Box Do You Wish To Put The 1360 FOR A=16 TO 23 Number In (1-9)" 1370 LOCATE A.1:PRINT STRING\$ (79,32) 830 LOCATE 23,1:PRINT "or [0] for Chance ?" 1380 NEXT 840 A\$=INKEY\$: IF A\$="" THEN 840 1390 GOSUB 260 850 BOXNO=VAL (A\$) 1400 LOCATE 18,1:PRINT"GAME OVER" 860 IF BOXNO>0 THEN GOTO 900 1410 GOSUB 240 870 CHANCES=CHANCES-1 1420 LOCATE 20,1:PRINT"YOUR SCORE WAS : ":SCORE 880 IF CHANCES (0 THEN GOTO 840 1430 GOSUB 200 890 GOTO 700 1440 LOCATE 22,1:PRINT"Do You Wish To Play Again (Y/N) 900 IF BOXNO<1 OR BOXNO>9 THEN GOTO 840 1450 A\$=INKEY\$: IF A\$="" THEN 1450 910 IF BOX (BOXNO) <>0 THEN GOTO 840 920 BOX (BOXNO) = NUM 1460 IF A\$="v" OR A\$="Y" THEN RUN 930 GOSUB 260 1470 IF A\$="n" OR A\$="N" THEN END

For the kids...

Chris Collins takes a break from his usual PD investigations, and looks at some educational software that is currently about.

ello out there, and welcome once again to Compatible's Corner. This month's column is coming to you from Tasmania. It is now early Sunday morning on the farm, all of the animals are fed, and I have a bit of free time to write this month's column for you. This month we don't really have any news because I don't have access to my sources, but because I have my nephews down here with me, we will be looking at some educational software to help your children get more out of their computers and possibly learn something, and not just use it for playing games.

BALLOONS, AND STILL MORE BALLOONS

Balloon Speller is a product of KIDWare, occupies only one diskette, and has a registration fee of US\$11.95. Balloon Speller will quite happily run off one floppy disk drive or a hard disk drive. You must run the configuration program (BSCON.EXE) before you run Balloon Speller otherwise it won't run correctly.

Balloon Speller consists of three separate games all with the same basic theme. You use a balloon to collect the letters that you need for the missing word. You drive the balloon around the screen with the cursor keys, and simply pick up the letter by pressing the ENTER key.

The first game is "Word Flash" in which you are given a collection of letters, many more than you require, and you must collect the correct letters in the correct sequence to match the missing word. You can flash the word up on the screen at any time simply by pressing the space bar.

The second game is "Word Jumble", and this is very similar to "Word Flash" except that the only letters that you have on the screen to chose from are the ones that you require to fill in the missing word. Again, you need to collect the letters in the balloon.

The last of the three games is "Word Guess", and this is a hangman style of game. You are given a collection of letters, and you must select letters to try and guess the missing word. You cannot, in this game, flash the word onto the screen.

In all three games, when you guess the word, you are rewarded with a simple tune. The program also keeps track of any errors that you make whilst trying to guess the words. If you make an excessive number of errors, the program will finish the game, and tell you what the word was.

You can create and edit the word lists used by the program, and I will be creating approximately 6 of them for you to use. You can always load another list from the first menu, and you must to be able to proceed to the game menu.

All in all, my nephews really enjoyed playing this one because of the great graphics and the style of play. Well recommended!

BRANDON'S LUNCHBOX

Brandon's Lunchbox is a collection of educational games designed for children between 3 and 7 years old, all run through a menu. Brandon's Lunchbox occupies only one diskette, is written by a gentleman called Joey Roblchaux of Baton Rouge, and has a registration fee of US\$5.00. It doesn't announce itself very well, as it only offers you a choice of 6 letters to choose from, without telling you what sort of exercise you will be doing.

Of the six available choices, both A and B are letter drills. These are simple games where a letter is flashed onto the screen, and you must quickly type in the same letter from the keyboard. The only difference between the two is that exercise A shows you an UPPER case letter on the screen, whereas exercise B shows you a lower case letter. As you will know all of the letters shown on a keyboard are upper case.

Choice C gives you a memory solving exercise. On the screen are ten doors numbered between 1 and 0. An object is shown at the bottom of the screen, and you have to choose a door to try and match the object. If you succeed, both the object and the door disappear, but if you fail, the object changes and you need to try again.

compatibles corner

Exercise D is a simple counting exercise. A collection of shapes is shown on the screen, and you need to type in a number relating to the total number of shapes. If you get it wrong twice, the correct answer is flashed onto the screen.

E is an option that gives you an exercise that relates to number sequences. If this sounds too complicated, don't worry. It simply means that a number is shown on the screen, and the child must first guess the number below, and then the number above the number on the screen. Then a graphic is shown showing the child whether the sequence is ascending or descending, and the child must continue the sequence. It is a lot more difficult to tell you about it, rather than to play it.

The last option is F, and this is an addition exercise. Simple addition exercises are placed on the screen for the child to do. If they get it right, they are rewarded with a small tune. If they don't get it right, they receive an audible warning, a hint and are given another chance. This applies to all of the games in Brandon's Lunchbox.

SCHOOL MUM

School Mum is a set of exercises designed for children between 4 and 14. It occupies 1 diskette, has a registration fee of US\$15.00, and is written by Dr. Andy Motes. It includes MUSIC COMPOSITION, ART, ADDITION and SUBTRACTION, ENGLISH, MULTIPLICATION and DIVISION and ALGEBRA.

The MUSIC COMPOSITION part of SM allows children to type in notes using the keys from A to G, and see them appear as notes on a musical score sheet. This tune can then by played back if required, or edited to suit any specific requirements.

ART requires a joystick, and as I don't have an option for a joystick on my computer, I couldn't test it out. Also remember that it is probably looking for an analogue joystick, not the more normal digital type as plugs into the back of your keyboard.

ADDITION and SUBTRACTION are your normal exercises in addition and subtraction, although with 4 different levels of difficulty, they change the style of sum as you go along. A lot of help is given on level 1, but this gets gradually less as you go up through the difficulty levels.

ENGLISH is a weird one. It gives you a list of nouns, tells you what a noun is, and allows you to choose one. It then does the same thing with adjectives and verbs, before giving you another list of nouns. After you have chosen the second noun, the program creates three sentences showing you have to use the words chosen. These sentences usually don't make much sense, but sometimes they do!

MULTIPLICATION and DIVISION are similar to ADDITION and SUBTRACTION, but as you go up through the four levels of difficulty, they change the method of display of the problem as well as its difficulty. So, by the time you get to level 4, we are looking at problems like 108/6, and seeing it as long

division. This is an excellent part of the program as it teaches the children to think.

ALGEBRA is the last part of the equation. This teaches children very simple concepts of how to think logically. For those of you disgusted with the current school system, this is a beauty. It obeys all of the rules that I was originally taught, and still forces the children to put 0 before any other part of the equation. It also breaks the equation down into smaller parts to explain the equation and how to do it.

For example: y = 4*(6+9) is broken down into its component parts. First, (6+9) is worked out, and the equation rewritten to y = 4*(15). This is then further explained as 4*15 equals 60. So y = 60. It is explained so simply that any child of about 10 years or up would be able to understand algebra. Really good!

School Mum is a really excellent package for teaching children to THINK. Teachers and the school system seem to be so set against actually teaching children to think, that this is well worth the registration fee.

WORDFUN AND FINDUM

Wordfun and Findum are two more educational programs about words. They come from a couple named Don and Tammy Grundhauser in Bolse, and respectively the registration fees are US\$10.00 and US\$5.00. Both of these also carry a US\$2.50 postage charge. Although both of these programs are shareware, the registrations are donation only.

Wordfun is very similar to the simple jumbled word games that you see in the afternoon newspaper. That is, you have a collection of jumbled words that you must sort out correctly, and then these are used as clues for the word puzzle. Wordfun has four topics that are available to choose from, and also has a tutorial program to teach you how to use itself. No other documentation is supplied. The program has quite a good graphic display, with the keys required to play the game always being shown in the left hand top corner of the screen.

Findum is a word finding puzzle, with a grid of mixed letters being put on the screen, and a group of words supplied along the left hand edge. These words are then to be found in the grid of letters. They can be found left-to-right, right-to-left, top-to-bottom, bottom-to-top, and on any of the diagonals. You mark the word with the F1 and F2, then you check the word with the F3 key. If it is correct, it is highlighted and the word will disappear from the list. You keep going along this route until you have managed to find all the words. Findum also has a tutorial built-in, so no documentation is provided.

If you want a couple of games to make your children think, without them seeming like work, Wordfun and Findum seem to be a pretty good pair.

DOS LEARNING SYSTEM

The second last diskette that we will look at this month is called DOS Learning System. It comes from

compatibles corner

a company called ECC Learning System, occupies only 1 diskette, and has a registration fee of US\$79.95. They also produce versions of this style of program for Lotus 1-2-3, Wordperfect V5.0 and V.42 and Microsoft Works.

The tutorial is a slide show, based on Dan Bricklen's Demo program, which allows you a certain amount of control, whilst stopping you making mistakes. It works its way through four major topics:

Hardware Overview of DOS DOS Commands, and Hard Disk Organisation.

As well as the above, there is a simple tutorial to explain how to use the tutorial.

Most of the tutorial is very easy to complete, but it does appear to cover some areas that I have yet to see in other tutorials of this type. It does not attempt to be a computer tutorial, as in PC Tutor, but a DOS tutorial with a bit of extra, very useful information thrown in.

I found that DOS Learning System enticed me enough to go all the way through the tutorial itself, which is something I don't often do with programs of this type. I found this to be an excellent program that I could well recommend. It has also whetted my appetite to look further at the other tutorials from this company.

PIVOT!

Pivot! is the last diskette of the month, and for users of AsEasyAs this a beauty. Pivot! is a companion

Have you gone soft yet?

PC-SOFT #1

Full of BASIC2 programs, essentially for the PC1512 and PC 1640.

On 5.25" for only \$12.50 (PLUS P&P)

PC-SOFT #3

24 utilites for Amstrad PCs and other compatibles running under MS-DOS.

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Eight games for Amstrad PCs and other compatibles running under MS-DOS.

On 5.25" for \$12.50 or 3.5" for \$15.00 (PLUS P&P)

PC-SOFT #4

6 games for Amstrad PCs and other compatibles running under MS-DOS.

On 5.25" for \$12.50 or 3.5" for \$15.00 (PLUS P&P)

Send your order now to: THE AMSTRAD USER 641 High Street Road Mount Waverley Victoria 3149 Tel: (03) 803 9661 program to allow you to print your spreadsheets sideways in a number of different fonts. Pivot fits onto one diskette, is supplied by Trius Corporation (Authors of AsEasyAs) and has a registration fee of US\$20.00.

Not being much into spreadsheets, I wasn't able to test this program out on anything that I knew. However, Trius are so considerate as to put a sample worksheet for you to test out Pivot! with. This is only a reasonable small sheet, but it does give you some idea of the power of Pivot!

Pivot! is invoked at the command line with the command PIVOT, and this will bring up a screen for you to see the PIVOT! name moving backwards and forwards across the screen. After it settles down (about 5 seconds), you can get into doing some serious printing. Pivot! can be invoked with pull down windows, or if called up with the /P option, it will work with a Lotus style menu system (across the screen). The choice is optional. I didn't really find one better than the other.

First thing that you need to do is to set Pivot! up to suit yourself. You can specify such things as type of character used to print, number of passes, codes to set your printer, which parallel port to use, and a couple of other things that I can't quite remember. Once you have saved all of these, they will come into operation each time you start the program.

Printouts are what the program is about, so we had better get on with describing them. I found that two pass is a necessity if you wish to keep a copy of the printout as one pass is too ragged. It can be read quite easily, but just doesn't look real good. I also seem to prefer the San Serif type-face that they supply, although there is also a COURIER, a CO2 and an ORATOR style also supplied. Which of these is available to you depends on which way you will be printing your spreadsheet, portrait or landscape. If you are not too happy with any of these, Trius are good enough to supply a program called GCHAR.EXE which allows you to create your own type-faces.

The only problem that I came across with the program is the fact that it doesn't support laser printers, only do matrix types. Then again this probably isn't a problem to most of you.

All in all, I feel that this is probably an excellent addition to any AsEasyAs owners list of diskette, and possibly any other spreadsheet owners list as well. I haven't tried it with any other spreadsheet, but it does support WKS and WK1 files so perhaps it will work with that other program.

Well that is about all for this month. Please remember that all of the diskettes listed above, plus any others that I have talked about are always available from MacroDisk at the following address:

MacroDisk Unit 2, 47 Vernon Street South Kingsville, VIC 3015

Galactic Invaders

Galactic is a space shoot-em-up in the mould of such classics as Space Invaders and Galaxian.

he basic aim of Galactic is a simple but difficult one. You must defend your territory from the aliens by blasting their battle machines with your Ion-cannon as they descend through the atmosphere.

Your Ion-cannon is powerful and accurate, but the aliens have a habit of swooping suddenly. There are ten different waves of aliens to destroy, as well as the mother ships that appear occasionally. Upon completion, the orbiting battle station will erupt in flames (a battle station will explode at the beginning for a bonus). The program will work on any CPC. Control is via the joystick.

```
10 REM *** GALACTIC ***
20 REM THE AMSTRAD USER
```

30 SYMBOL AFTER 123

40 SYMBOL 123,&1C,&3E,&6B,&7F,&3E,&14,&22,&14

50 SYMBOL 124,&24,&18,&7E,&DB,&7E,&3C,&24,&42

60 SYMBOL 125,&20,&46,&6D,&38,&1C,&B6,&62,&4

70 SYMBOL 126,&0,&0,&0,&18,&24,&5A,&E7,&18 80 SYMBOL 127,&0,&0,&42,&3C,&DB,&3C,&42,&0

90 SYMBOL 128,&0,&0,&18,&66,&99,&24,&0,&0

100 SYMBOL 129, &0, &24, &5A, &E7, &7E, &24, &42, &E7

110 SYMBOL 130,&3C,&7E,&C7,&DD,&EB,&FF,&AA,&0

120 SYMBOL 131,&3C,&7E,&C9,F5,&CD,&FF,&42,&3C

130 SYMBOL 132,&42,&99,&BD,&E7,&BD,&99,&42,&0

140 SYMBOL 133,&8,&8,&1C,&2A,&6B,&1C,&6B,&22

150 SYMBOL 134,&0,&0,&0,&8,&8,&8,&8,&0 160 SYMBOL 135,&2,&7,&B,&1F,&7C,&FE,&23,&0

170 SYMBOL 136,&40,&E0,&D0,&F8,&3E,&7F,&C4,&0

180 SYMBOL 137,&7,&1F,&3F,&7F,&7F,&FF,&FF,&FF

190 SYMBOL 138,&F,&F0,&FF,&7F,&7F,&3F,&1F,&7

200 SYMBOL 139,&E0,&F8,&FC,&9E,&E,&4F,&9F,&FF

210 SYMBOL 140,&F0,&F,&FF,&FE,&FE,&FC,&F8,&E0 220 SYMBOL 141,&41,&8,&21,&84,&10,&2,&88,&22

230 MODE 1: INK 0,0: INK 1,18: INK 2,26: INK 3,6: BORDER 0

240 HI=1000:DIM A(40),B(40),S(40)

250 WINDOW #1,1,40,2,23:PAPER #1,0:CLS #1

260 RANDOMIZE TIME

270 REM main program

280 LEV=10: SCORE=0: MEN=3

290 Z=16

300 FOR I=0 TO 639 STEP 2

310 ZZ=INT (RND+3)+1

320 IF ZZ=1 AND Z<30 THEN Z=Z+2

330 IF ZZ=2 AND Z>2 THEN Z=Z-2

340 MOVE I, Z: DRAW I, 0, 3: NEXT

350 PAPER 1:FOR I=1 TO 40:LOCATE I,1:PRINT" ";:NEXT

360 PAPER 1:PEN 2:FOR I=1 TO MEN-1:LOCATE I,1:PRINT CHR

\$(133);:NEXT

370 LOCATE 7,1:PRINT"SCORE":LOCATE 19,1:PRINT"HIGH":LOC

ATE 30,1:PRINT"LEVEL"

380 REM main setup after rack

390 LEV=LEV+1

400 IF LEV>10 THEN 1360

410 C=122+LEV

420 CLS #1

430 PAPER 1: PEN 2

440 LOCATE 12,1:PRINT SCORE:LOCATE 23,1:PRINT HI:LOCATE 35,1:PRINT LEV

450 FOR I=1 TO 500:PLOT INT(RND*638)+1,32+INT(RND*348)+1,2:NEXT

460 PAPER 0:LOCATE LEV*2+1-1,3:PRINT" ";:LOCATE LEV*2+1-1,4:PRINT" ";

470 FOR I=1 TO 40:S(I)=1:NEXT

480 LOCATE LEV*2+1,3:PRINT CHR\$(137);CHR\$(139);:LOCATE

LEV*2+1,4:PRINT CHR\$(138);CHR\$(140);

490 FOR I=1 TO 3+INT(RND*2)+1

500 XX=INT(RND+40)+1

510 IF S(XX)=1 THEN S(XX)=3

529 NEXT

530 FOR I=1 TO 40:B(I)=5+LEV:NEXT

540 FOR I=1 TO 40:A(I)=I:NEXT

550 PEN 1:FOR I=1 TO 40:LOCATE I,5+LEV:PRINT CHR\$(C);:N EXT

560 X=20:PEN 2:LOCATE X,23:PRINT CHR\$(133):

570 FOR I=1 TO LEV

cpc type-in

580 XX=INT(RND#40)+1 590 IF S(XX)=1 THEN S(XX)=2 600 NEXT 618 FOR I=188 TO 1 STEP -1: SOUND 2.I.1.7: NEXT 620 REM main loop 630 FOR I=1 TO 40 640 IF S(I)=0 THEN 780 650 PEN 1 660 ZZ=INT (RND+4)+1 670 LOCATE A(I), B(I): PRINT" "; 680 IF ZZ=1 AND A(I)>1 THEN A(I)=A(I)-1:B(I)=B(I)+1 690 IF ZZ=2 THEN B(I)=B(I)+1 700 IF ZZ=3 AND A(I)<40 THEN A(I)=A(I)+1:B(I)=B(I)+1 710 LOCATE A(I), B(I): PRINT CHR\$(C); 720 SOUND 2,A(I)*B(I),1,7 730 IF B(I)>22 THEN 1310 740 PEN 2 750 IF JOY(0) AND 4 AND X>1 THEN LOCATE X.23:PRINT" ":: X=X-1:LOCATE X,23:PRINT CHR\$(133); 760 IF JOY(0) AND 8 AND X<40 THEN LOCATE X,23:PRINT" "; :X=X+1:LOCATE X,23:PRINT CHR\$(133): 770 IF JOY (0) AND 16 THEN 800 780 NEXT: 60TO 630 790 REM fire 800 PEN 2 810 FOR XX=100 TO 1 STEP -20: SOUND 2, XX, 1, 7: NEXT 820 FOR XX=22 TO 5+LEV STEP -1 830 LOCATE X,XX:PRINT CHR\$(134); 840 LOCATE X,XX:PRINT" "; 850 NEXT 860 FOR XX=1 TO 40 870 IF A(XX)=X AND S(XX)<>0 THEN 900 880 NEXT

910 PEN 3:LOCATE A(XX).B(XX):PRINT CHR\$(42); 920 SOUND 2,600,10,7,1,12,2:FOR DELAY=1 TO 100:NEXT:LOC ATE A(XX) .B(XX) :PRINT" "; 930 PEN 2: PAPER 1: SCORE=SCORE+(S(XX)*10): LOCATE 12,1:PR INT SCORE: PAPER 0 940 IF S(XX)=3 THEN 1550 950 S(XX)=0 960 RA=0:FOR XX=1 TO 40 970 IF S(XX)=0 THEN RA=RA+1 990 IF RA=40 THEN 1020 1000 GOTO 780 1010 REM complete rack 1020 PEN 1:LOCATE 12,10:PRINT"LEVEL"; LEV; "COMPLETE" 1030 FOR ST=2 TO 50 STEP 2:FOR SS=100 TO 1 STEP -ST:SOU ND 2.SS.1.7: NEXT: NEXT 1040 LOCATE 17,12:PRINT"BONUS" 1050 FOR I=1 TO LEV*10:LOCATE 17,14:PRINT I:SOUND 2,100 ,2,7:SOUND 2,120,2,7:NEXT:SCORE=SCORE+I:PEN 2:PAPER 1:L OCATE 12,1:PRINT SCORE 1060 FOR ST=2 TO 50 STEP 2:FOR SS=100 TO 1 STEP -ST:SOU ND 2,SS,1,7:NEXT:NEXT 1070 GOTO 390 1080 REM alien kamakazi 1090 FOR SS=400 TO 500 STEP 2:SOUND 2,SS,1,7:NEXT 1100 IF JOY(0) AND 4 AND X>1 THEN LOCATE X,23:PRINT" "; :X=X-1:LOCATE X,23:PEN 2:PRINT CHR\$(133); 1110 IF JOY (0) AND 8 AND X<40 THEN LOCATE X,23:PRINT" " ;: X=X+1:LOCATE X,23:PEN 2:PRINT CHR\$(133); 1120 SOUND 2,2500,20,7 1130 IF A(XX)<X AND A(XX)<40 THEN LOCATE A(XX),B(XX):PR INT" ":A(XX)=A(XX)+0.5:B(XX)=B(XX)+1:LOCATE A(XX),B(XX):PEN 1:PRINT CHR\$(C); 1140 IF A(XX)>X AND A(XX)>1 THEN LOCATE A(XX),B(XX):PRI NT" ":A(XX)=A(XX)-0.5:B(XX)=B(XX)+1:LOCATE A(XX),B(XX): PEN 1: PRINT CHR\$(C); 1150 IF A(XX)=X THEN LOCATE A(XX),B(XX):PRINT" ":B(XX)= B(XX)+1:LOCATE A(XX),B(XX):PEN 1:PRINT CHR\$(C); 1160 IF A(XX)=X AND B(XX)>22 THEN 1200 1170 IF B(XX)>22 THEN 910 1180 GOTO 1100 1190 REM man hit 1200 LOCATE A(XX),B(XX):PRINT" ";:S(XX)=0 1210 PEN 3:LOCATE X,23:PRINT CHR\$(141); 1220 SOUND 2,600,20,7,1,12,2:FOR DELAY=1 TO 100:NEXT:LO CATE X,23:PRINT" ": 1230 MEN=MEN-1 1240 IF MEN=0 THEN 1760 1250 PAPER 1:LOCATE MEN, 1:PRINT" "; 1260 PEN 2: PAPER 0: XX=1: FOR II=40 TO 20 STEP -1: LOCATE XX,23:PRINT"-";:LOCATE II,23:PRINT"-";:SOUND 2,2000,5,7 : XX=XX+1: NEXT 1270 PEN 2:PAPER 0:XX=1:FOR II=40 TO 20 STEP -1:LOCATE XX,23:PRINT" ";:LOCATE II,23:PRINT" ";:SOUND 2,2000,5,7

890 GOTO 780

900 IF S(XX)=2 THEN 1090

: XX=XX+1:NEXT

1280 LOCATE X,23: PRINT CHR\$ (133);

1290 GOTO 780

1300 REM aliens land

1310 FOR I=1 TO 250

1320 MOVE 319,16:DRAW INT(RND*638)+1,99+INT(RND*200)+1,

INT (RND*3)+1

1330 SOUND 2,600,2,7,1,12,2:NEXT

1340 GOTO 1910

1350 REM planet explodes

1360 CLS #1

1370 FOR I=1 TO 500:PLOT INT(RND*638)+1,32+INT(RND*348)

+1.2: NEXT

1380 PAPER 0:LOCATE LEV*2+1,3:PRINT" ";:LOCATE LEV*2+1

,4:PRINT" ";

1390 PEN 2:LOCATE 20,12:PRINT CHR\$(137);CHR\$(139);

1400 LOCATE 20,13:PRINT CHR\$(138);CHR\$(140);

1410 FOR I=1 TO 40

1420 A(I)=INT(RND*638)+1:B(I)=32+INT(RND*350)+1:NEXT

1430 FOR I=1 TO 40

1440 MOVE 319,199: DRAW A(I), B(I), INT(RND*3)+1: SOUND 2,6

00,2,7,1,12,2:NEXT

1450 FOR I=1 TO 40: MOVE 319, 199: DRAW A(I), B(I), 0: SOUND

2,600,2,7,1,12,2:NEXT

1460 PEN 1:LOCATE 11,8:PRINT"BASE STAR DESTROYED"

1470 LOCATE 18.15: PRINT "BONUS"

1480 FOR I=1 TO 100:LOCATE 18,17:PRINT I:SOUND 2,100,2,

7:SOUND 2,120,2,7:NEXT:PEN 2:PAPER 1:SCORE=SCORE+I:LOCA
TE 12.1:PRINT SCORE

1400 DADED O-DEN 7-1

1490 PAPER 0:PEN 3:LOCATE 10,20:PRINT"CONTINUE NEXT PAT TERN"

1000

1500 MEN=MEN+1:PAPER 1:PEN 2:FOR I=1 TO MEN-1:LOCATE I,

1:PRINT CHR\$(133);:NEXT

1510 FOR I=100 TO 1 STEP -1:SOUND 2, I, 1, 7: NEXT

1520 Z1=0: Z3=380: Z4=34: FOR Z2=638 TO 319 STEP -2: MOVE Z 1.Z4: DRAW Z1.Z3.INT(RND+3)+1: DRAW Z2.Z3.INT(RND+3)+1: DR

AW Z2,Z4,INT(RND+3)+1:DRAW Z1,Z4,INT(RND+3)+1:Z1=Z1+2:Z

3=23-2: 24=24+2: NEXT

1530 FOR DELAY=1 TO 3000:NEXT:LEV=0:GOTO 390

1540 REM mystery alien sequence

1550 AL=1:FIRE=3

1560 FOR SS=1 TO 20:SOUND 2, INT(RND*100)+1,1,7:NEXT

1570 PEN 2

1580 LOCATE AL,5:PRINT" ";

1590 AL=AL+1: IF AL>39 THEN 950

1600 LOCATE AL,5:PRINT CHR\$(135);CHR\$(136);

1610 H=INT(RND*100)+1:FOR SS=1 TO 7:SOUND 2,H,1,SS:NEXT

1620 IF JOY(0) AND 4 AND X>1 THEN LOCATE X,23:PRINT" ";

:X=X-1:LOCATE X,23:PRINT CHR\$(133);

1630 IF JOY(0) AND 8 AND X<40 THEN LOCATE X,23:PRINT" "

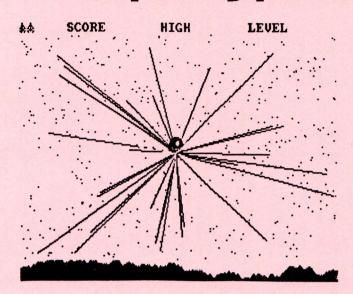
:: X=X+1:LOCATE X,23:PRINT CHR\$(133);

1640 IF JOY (0) AND 16 AND FIRE>0 THEN 1670

1650 GOTO 1580

1660 REM fire?

1670 FOR SS=100 TO 1 STEP -20: SOUND 2,SS,1,7:NEXT



1680 FOR ZZ=22 TO 6 STEP -1:LOCATE X,ZZ:PRINT CHR\$(134) ::LOCATE X,ZZ:PRINT" "::NEXT

1690 IF X=AL OR X=AL+1 THEN 1700 ELSE FIRE=FIRE-1:GOTO

1700 PEN 3:LOCATE AL,5:PRINT CHR\$(141);CHR\$(141);

1710 SOUND 2,600,20,7,1,12,2:FOR DELAY=1 TO 100:NEXT

1720 LOCATE AL,5:PRINT" ":

1730 PEN 2:PAPER 1:SCORE=SCORE+50:LOCATE 12,1:PRINT SCO

RE: PAPER 0

1740 GOTO 950

1750 REM game over 1760 Z1=0:Z3=380:Z4=34:FOR Z2=638 TO 319 STEP -2:MOVE Z

1,Z4:DRAW Z1,Z3,INT(RND*3)+1:DRAW Z2,Z3,INT(RND*3)+1:DR AW Z2,Z4,INT(RND*3)+1:DRAW Z1,Z4,INT(RND*3)+1:Z1=Z1+2:Z

3=23-2: 24=24+2: NEXT

1770 FOR XX=1 TO 40 STEP 5:FOR YY=11 TO 13:LOCATE XX,YY :PRINT" "::NEXT:NEXT

1780 LOCATE 12,12:PRINT"6 A M E O V E R"

1790 FOR I=300 TO 1000 STEP 3: SOUND 2, I, 1, 7: NEXT

1800 LOCATE 10,22: PRINT"PRESS FIRE TO RESTART"

1810 IF SCORE>HI THEN HI=SCORE

1820 PEN 2: PAPER 1

1830 LOCATE 23,1:PRINT HI

1840 PRESS=0

1850 IF JOY (0) AND 16 THEN PRESS=PRESS+1

1860 IF PRESS>10 THEN 1870 ELSE 1850

1870 Z1=0: Z3=380: Z4=34: FOR Z2=638 TO 466 STEP -2: MOVE Z

1, Z4: DRAW Z1, Z3, 0: DRAW Z2, Z3, 0: DRAW Z2, Z4, 0: DRAW Z1, Z4,

0: Z1=Z1+2: Z3=Z3-2: Z4=Z4+2: NEXT

1880 PAPER 0:CLS

1890 GOTO 280

1900 REM continue after landing

1910 MEN=MEN-1

1920 IF MEN=0 THEN 1760

1930 PAPER 1:LOCATE MEN,1:PRINT" ";

1940 PAPER 0:CLS

1950 LEV=LEV-1:60T0 290

Have you joined a

07.10 GZ 77. 72.

WESTERN AUSTRALIA

AMSTRAD	HEED	CDOUD	(BUNBURY)
AMISTRAD	USER	GROUP	(BUNDURI)

Brian Ballard (097 217 199) Chairman: John Cohen Secretary:

90 King Rd, Bunbury on the 3rd Saturday

of every month at 3pm

Mail: P.O. Box 77. Brunswick Jn. WA 6224.

AMSWEST (Perth)

Venue:

Mail:

President: Graeme Worth (09 341 5211) Thelma Ardron (09 361 8975) Vice Pres: Secretary: Gerry Atkinson (09 381 5434) Richard Lang Treasurer (09 525 4087) 293 Bagot Road, Subiaco 6008 on the first

and third Tuesdays of each month at 7.30. P.O. Box 476, West Perth 6005 WA...

VIC CHIPS USER GROUP

(Amalgamated with Rockingham Quingana Group)

President: Des Nichols

Secretary: Val Hoeksemo (09 527 7426) Malibu Special School. Malibu Rd, Waikiki Venue: every Tuesday at 7.30pm.

PO Box 540, Rockingham WA 6168

SOUTHSIDE AMSTRAD USER CLUB

President: Brian Purser (09 398 1168) Secretary: Lynda Blissett (09 459 6448) Eric Tytherleigh (09 390 8865) Treasurer: Huntingdale Primary Sch., 85 Matilda St, Huntingdale every 2nd and 4th

Wednesday of each month from 7.00 pm. The Sec., Southside Amstrad Users Club, 25 Haffner Crt, Maddington, WA 6109.

AMSTRAD COMPUTER CLUB TOM PRICE

(091 89 2074) President: Colin Smith John Eliot Secretary: (091 98 1735) Treasurers: P. & C. Montgomery (091 89 2398) Primary School every 2nd Wednesday night. Contact the above for more details.

SOUTH AUSTRALIA

AMSOUTH AMSTRAD USER'S GROUP

(085 371 0151) President: Drew Ames Bob Bleachmore (085 56 2048) Treasurer: Will Vaughan after 6pm: (08 382 8312) Secretary: Christies Beach High School, Western Section Beach Road, Christies Downs (adjacent to Staff Car Park off Mander Road) every 2nd Wednesday at 7.30. PO Box 612, Noarlunga Centre, SA 5168

AMSNORTH AMSTRAD USER'S GROUP

(08 262 6342) Organisers: J.T. Clarkin R. Britton (08 258 7861) Lacrosse Hall, Terama Street, Gepps Cross every Wednesday at 7.00 p.m.

AMSTRAD COMPUTER CLUB INC. (SA)

(08 374 0565) Ross Barker Vice Pres David Simpson (08 373 1693) Vice Pres: Paul Beard Treasurer: (08 339 1314) Secretary: Debra Dienelt Torrensville Primary School, Torrensville Venue: every tuesday between 6.30 & 9.00pm. PO Box 210, Parkholme, SA 5043.

NORTHERN COMPUTING SOCIETY Inc.

(08 248 4031) President: Valerie Clarke Vice Pres: Tony Mackereth (08 281 3968) Sec./Treas: Graham Brewin (08 258 5320) Drop-In Centre, Salisbury North Primary School, cnr. Bagster & Woodyates Rds every Wednesday from 7.00. PO Box 482, Salisbury, SA 5108,

VICTORIA

E TOTAL TOTA

CENTRAL AMSTRAD USER SOCIETY

(03 580 9839) President: Fred Gillen Vice-Pres: Dennis Whelan (03 367 6614) Doug Jones Treasurer: Secretary: Craig Tooke (03 359 3736) Bogart's Restaurant on the corner of Venue: Victoria and Errol Streets, North Melbourne on the first Sunday of each

month starting at 1.00 pm EASTERN AMSTRAD USER GROUP Inc.

(03 890 3116) President: Tony Blakemore Stella Muir Secretary: (03 723 1139) Les Kovack (056 234 836) Treasurer: PCW rep: Ron Hawthorn St Ninian's Church Hall, cnr. McCracken Venue: Avenue and Orchard Grove, South Blackburn on the1st Sunday of each

month from 1.00cm. PO Box 583, Croydon, 3136

GEELONG AMSTRAD USER CLUB

Mail

President:

Mail:

President: Arthur Pounsett (052 78 2160) Arthur Vienna Vice-Pres: (052 78 6736) Tony Sowinski (052 78 9418) South Barwon Community Services Ctr. Venue: 33 Mount Pleasant Rd. Belmont on the first Wed. of each month, from 7.30p.m Mail: 12 Strathire Gardens, Hamlyn Heigts 3215

GOULBURN VALLEY AMSTRAD USERS CLUB

Roger Tacey Secretary: (058 21 9034) Rod Raven Treasurer: **Rev Felton** (058 21 2703) North Shepparton Community House, Venue: Olympic Ave. Every 3rd Thur. from 7:30pm P.O. Box 1713, Shepparton 3630. Mail:

(058 23 1449)

MOUNTAIN DISTRICT AMSTRAD USER GROUP Inc.

President: David Jamieson (03 870 1016) Ian Pearson (059 965 019) Treasurer: Secretary: Ian Pearson (059 965 019) Venue: Country Womens Association Hall. 4 Sundew Avenue, Boronia from 7.00 pm. every 2nd & 4th Monday of the month.

PO Box 132, The Basin, Vic 3154.

SOUTHERN AMSTRAD USER GROUP Inc.

(03 786 3489) President: Gerry Goody Secretary: **Bob Patterson** (03 786 6976) Geoff Wales (03 786 9212) Treasurer: Karingal Tennis Club, Gretana Crescent, Frankston every third Tuesday at 7.30pm The Sec., PO Box 100, Seaford, Vic 3198.

SUNBURY MELTON AMSTRAD USER GROUP

(03 744 2719) Contacts: Wayne Urmston Norman McEntee (03 743 7104) Toolern Vale Hall, Toolern Vale every third Saturday of the month at 10.00 a.m.

WENDOUREE AMSTRAD USER GROUP

Brad Maisey (053 44 8356) Cnr. Charles and Appleby Drive, Cardigan Contact: Venue: Village on the first Sunday of the month at

WESTERN AMSTRAD COMPUTER CLUB

Noel Sutherland (03 369 5480) Fairbairn Kindergarten, Fairbairn Road. Venue: Sunshine on alternate Tuesdays from

PO Box 161, Layerton 3028. Mail:

ACT

CANBERRA AMSTRAD USER'S GROUP

(062 86 5460) James Gifford (062 47 5126) Secretary: Treasurer: Rod MacKenzie (062 54 7551) The Oliphant Building, ANU, Canberra on the first Tuesday of each month from

7.30 pm

PO Box 1789, Canberra , ACT 2601.

NEW SOUTH WALES

BLUE MOUNTAINS AMSTRAD USERS

President: Bob Chapman Vice Pres: Dennis Shanahan (047 39 4568) (047 53 6203) Treasurer Peter Traish Malcolm Stone Secretary: Nathan Stone (047 51 2791) Jun. Rep Springwood Neighbourhood Centre. Venue: Macquarie Road, Springwood on 2nd and 4th Wednesday of each month at 8.00pm.

BRISBANE WATERS AMS USER CLUB

Peter Scammell (043) 676408 President: Arthur Bradney Douglas Green (043) 422568 Secretary: Andrew Pernecker (043) 692430 Treasurer: Meals on Wheels Hall, onr Ocean Beach rd Venue:

and McMasters rd, Woy Woy. Third Thursday of each month at 7.30pm.

Mail: 1/254 Railway st, Woy Woy,

NSW. 2256.

COFFS HARBOUR AMSTRAD COMPUTER CLUB

President: Bruce Jones Secretary: Colin Jones 1066 49 2127 Treasurer: Brian Claydon (066 49 4510) Orara High School, Joyce Street from 7.00 Venue: on the first Friday of each month. Mail: 169 Beryl St, Coffs Harbour, 2450.

HAWKESBURY AMSTRAD USER GROUP

(045 76 5291) President: Terry Webb (045 77 5536) Secretary: Dave Keen Richmond Swimming Club Rooms every third Tuesday of the month at 7.30 pm.

ILLAWARRA COMPUTER USERS CLUB

(042 29 2109) President: Mark Jones Secretary: Neville Dillon (042 56 2642) (042 71 5462) Steve Astill Treasurer: (042 56 1956) Librarian: Peter Platts AGA Gremania Club, Berkeley at 2,00 pm. Venue: evey third Saturday of the month.

LISMORE DISTRICT AMSTRAD COMPUTER CLUB

President: Tom Wright (066 291 302) Secretary Russell Bell (066 216 888 Deborah King (066 864 424) Treasurer Ben King (066 864 424) Goonelabah Public School, Ballina St. on Librarian: Venue: the last Tuesday of each month from 7pm. Mail: PO Box 771 Lismore, NSW 2480.

PARKES COMPUTER USER GROUP

Eileen Magill (068 643 285) Contact: North Gunning, Gunningbland, NSW 2876. Mail:

S & W MILLER AMSTRAD USER'S CLUB

(049 33 5459) President: Wal Sellers Secretary: Georgina Todd (049 66 2788) Maitland Park Bowling Club, Maitland on Venue: the second Tuesday of each month at

MURWILLUMBAH AMSTRAD USERS GROUP

(066 79 3280) President: Nick Bruin (066 77 1440) Kel Philip Secretary: Laura Goode (066 72 2499) Lorraine Montgomery (066 72 1823) Treasurer: Murwillumbah High Sch. on the 2nd Venue: Wednesday of each month at 7.00p.m. Mail c/o Post Office, Burringbar, 2483.

NEWCASTLE AMSCLUB (USER GROUP)

(049 52 4638) President: Bill Simkus (049 62 1221) Secretary: Rex Morris Treasurer: Roy Hannon

user group lately?

Venue:

Waratah-Mayfield RSL Club (upstairs room), Hanbury St, Mayfield on the first and third Tuesday of the month at 7.30pm.

Mail: 36 Teralba Road, Broadmeadow, 2292

PCW AUSTRALIA GROUP

Secretary: Clyde Gittins Treasurer: Geoff Bolton (02 745 2230) Burwood RSL Club, 96 Shaftesbury Road, Venue:

Burwood every second Tuesday of the

month at 7:30 pm.

PO Box 478, Smithfield, NSW 2164. Mail:

SYDNEY AMSTRAD COMPUTER CLUB

Tom Caldwell (02 661 7573) President: Reed Walters Sec/Treas: (02 560 9487) Camdenville Comm. Ctr., Newtown on the Venue:

1st Saturday of every month at 2.00 p.m. For more details contact the Secretary between 6.00 p.m. and 9 p.m.

PO Box 423, Matraville, 2036.

SYDNEY PC1512 USER GROUP

(02 76 6467) A/H

(02 412 9213) B/H

To be arranged; meeting initially on the Venue: third Tuesday of each month at 7.00 pm.

QUEENSLAND

AMSTRAD AND PC USER GROUP OF LOGAN

Michael Toussaint (07 200 5414) President: Peter Incoll (07 208 2332)

William K. Giles Secretary: Treasurer Bryan Carter

Carol Watts (07 287 2882) Rhys Watkins

Loganlea State High School (in the Venue: Communications Room) every 3rd Sat.

of the month starting at 2.00 p.m.A Basic programming course is held fortnightly. 10 Carramar St, Loganlea, 4204.

Mail:

BRISBANE AMSTRAD COMPUTER CLUB

President: John O'Connor (07 271 3350) John Digby Vice Pres: (07 351 2553) Secretary: Bob Ashe 107 355 5699 Ivan Dowling (07 269 8795) Treasurer: Tech. Editor:Franz Hendrickx (07 356 0633)

NEWMARKET: Newmarket State Sch. Banks St., Newmarket on the 2nd Sat. of each month at 1.30p.m. Any executive member can be contacted for information

Venue 2 REDI AND RAY: Birkdale State Sch. Agnes St, Birkdale 4159 on the 3rd Sat. of each month from 1.00pm.Co-ordinators

are Paul Peterson (07 206 7214) and Nev Taylor (07 207 3435).

SUNNYBANK: Sunnybank State Sch., Venue 3: Turton St, Sunnybank 4109 on the 3rd Sun. of each month from 1.30pm. Contact Jim Papadimitriou (07 344 2067).

WESTERN SUBURBS: Jamboree Heights State Sch., 35 Beanland St, Jamboree Heights 4074 on the 1st Sat. of each month from 1.30pm. Contact Gordon

Bradford (07 814 4746) or Helda & Jim James (07 376 1137). REDCLIFFE PENINSULA: Kippa-ring

State Sch. (library), Elizabeth St, Kippa ring 4020 on the 2nd Sun. of each month from 1.30pm. Contact Ivan Dowling (07

PO Box 167, Alderley, Qld. 4051.

BUNDABERG AMSTRAD USER'S GROUP

Ray Babbidge (071 72 1223) Secretary: Clive Barrett (071 71 3668) (071 72 8884) Sheila Coe Treasurer:

The third Tuesday of the month. For more details contact the above.

Mail 11 Laack St., Bundaberg, QLD 4670. COMPUTER USER GROUPS OF AUSTRALIA

Pittsworth Branch

President: David Siebuhr

Contact: Ron Langton (076 931 690) Every first Tuesday of every month from 5 pm. at the St. Peter Lutheran Church Hall, Grand Street, Pittsworth.

CUGA, PO Box 166, Pittsworth, 4356.

GOLD COAST AMSTRAD USER GROUP

(075 33 9232) Gary Rosenblatt Greg Sneddon (075 32 0227) Treasurer: Pam Scott Secretary: Benowa State High School, Mediterranean Avenue, Benowa on the first Saturday of

each month at 2.00 pm. 46 Musgrave Ave. Southport 4215.

MACKAY AMSTRAD USER GROUP

Contact: Des Mulrealiey Geoff Taylor (552 350) Meet every second Sunday morning. Venue Contact the above for location and time.

PENINSULA AMSTRAD CLUB

(amalgamated with BACC) President: Ivan Dowling Keith Johnston (07 203 2339) Kippa-Ring State School Library, Elizabeth Venue: Avenue every third Tuesday of the month

TOOWOOMBA AMSTRAD USERS GROUP

President: Tony Carlaw (076 91 6161) Secretary: David Culliford (076 32 7277) Asst Secs Chris & Glen Jones (076 91 2643) Anglea Gschidle (076 34 1692) Treasurer: Shane Gschidle (076 34 1935) Toowoomba Education Centre, Baker Venue: Street, Toowoomba on the 4th Monday of each month starting at 7.30 pm.

Mail: c/o Secretary, 58 Curzon St, Toowoomba, QLD 4350.

TOWNSVILLE AMSTRAD USER GROUP

lan Wallace (077 73 1798) President: Doug Selmes (077 79 6011 xt 252) Chris Nisen (077 79 6299) Treasurer: Secretary: Alister Buckingham (077 73 3955) Science Block of the Kirwan High School Venue: in Thuringowa Drive on the first and third

THE WARWICK AMSTRAD USER GROUP

President: Mrs. D. Christensen

Secretary: John Wode (076 61 5176)

Tuesdays each month at 7.30pm.

WEIPA AMSTRAD USERS CLUB Andrew Seaborn President:

Dave Wootton Treasurer: Frances Casey Gary Chippendale Secretary:

(070 69 7448) Noola Court in Weipa. Contact above for

15 Noola Court, Weipa, QLD 4874. Mail:

TASMANIA

SOUTHERN TASMANIAN AMSTRAD CLUB

(002 44 3385) President: David Burtt Treasurer Cindy Campbell (002 34 8003) Glenorchy Regional Library, Glenorchy at Venue: 7:30pm on the 4th Wed. of each month. PO Box 247, North Hobart, 7002.

NORTHERN TASMANIA AMSTRAD COMP. CLUB

President: David Double H (003 444 243) V. Pres.: Shane Crack H (003 446 525) Sec/Treas: Fnid Baker B (003 431 313) Librarian: Paul James H (003 273 525) Junior Del: Jason Donati H (003 316 597)

Richard Wilson H (003 931 437) Launceston Community College (opposite

Park Street) in Room 27 on the first Saturday of the month at 5.00 p.m.

N.W. COAST AMSTRAD USER'S CLUB

President: Peter Gibson 1004 24 7586 John Westerhof (004 24 3977) Treasurer: Secretary: John Westerhof (004 24 3977) Don College, Watkinson St Devonport the

third Sunday of every month at 7.30pm. Secretary, 7 Bishton St, Devonport, Tas.

NEW ZEALAND

THE AMSTRAD COMPUTER CLUB OF CANTERBURY

Ian Orchard Four Avenues School, cnr. Madras Street

and Edgeware Road, Christchurch 1 on the fourth Wednesday of each month.

C/o 50 Rapaki Road,

St. Martins, Christchurch. 2 NZ.

AMSTRAD USERS GROUP

Oranga Scout Hall, Fergusson Park, Waitangi Road, Auckland, Between 9.30 am and 4 pm on the third Saturday and the last Sunday of the month. CPC and

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Cafeteria, NZ Fisheries Research Division. Greta Point, Evans Bay, on the first Monday of each month from 7.30 pm.

PO Box 2575, Wellington, New Zealand.

CONTACT LIST

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Brian Ellis, Reservoir (03) 469 4425 A/H

South Australia:

Dave Green, Port Pirie (086) 326 834

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We accept unsolicited articles or program contributions from readers with a view to possible publication, but in the case of programs we must insist that the coding is submitted on either tape or disc. We just do not have the time to key them all in. The tape or disc will be returned if originally accompanied with a stamped and return addressed padded bag.

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CPC & PCW PUBLIC DOMAIN SOFTWARE

The following discs contain compilations of public domain programs put together by the Advantage Computer User Group (in England) and which have been tested under CP/M Plus.

Unless otherwise stated, programs will run on the PCW, 6128 and 464/664 with extra memory and CP/M Plus. Programs for the 464/ 664 are on the CP/M 2.2 Collection. The discs are supplied in Data

format and contain documentation files to help the user get started and provide instructions on running the programs plus useful sorted directory and MENU systems.

But remember, as Public Domain programs they are supplied on an as-is basis.

CP/M 2.2 COLLECTION

For 464/664 disc drive users with CP/M 2.2. Contains File Manager, Compare, Find, Disc sector editor, Key definer, Bad sector eliminator, Grep, Full Screen text editor, Easy lister, File transfer utility, Unerase erased files, erased files catalogue and many more.

CPC Ref: #430

FULL SCREEN TEXT EDITOR

This machine code editor offers full screen editing. full block operations, windowing, automatic horizontal scroll (line length up to 255 characters), macro functions, word-wrap and formatting, pagination, find/replace, undelete and many user op-

The editor, which is less than 10k in size, is fast because it edits a file entirely in memory. It produces ASCII text files and has enough features to be used as a word processor. A comprehensive ondisc manual is included together with keyboard configuration files for the CPC and PCW.

CPC Ref: #601 PCW Ref: #801

DATABASE

A small relational database suitable for storing simple data and producing reports and forms letters from the data. Offers free format query language with macros and commands plus on-line help. The disc also contains an Inventory Database. Whilst these databases provide a useful introduction and you can use them to set up a full operational database system they are not meant to replace commercial packages for professional or business use.

CPC Ref: #602 PCW Ref: #802

COMMUNICATIONS

Programs to allow data transfer between computers (local and remote), access databases and bulletin boards. UKModem7, New Kermit, MEX and various communications utilities. The disc also contains software for Prestel (Viatel) emulation (PCW only).

CPC Ref: #603 PCW Ref: #803

VIDEO CLERK

Keep track of your video collection. With four Sort options and Forms Management system for printing out the data in order of title number, video number, global alphabetic or unique. Includes extensive on-disc documentation.

CPC Ref: #604 PCW Ref: #804

FIXED ASSETS LOG

Allows you to keep a record of all your assets and their value. For example, at home, you may wish to keep a record of how much money you are spending on your computer or the value of a stamp collection etc. In business you can use it to keep a record of how much money you have tied up in land, buildings, office equipment, cars etc. It can also be used as a stock-taking program

CPC Ref: #605 PCW Ref: #805

COMPLETE UTILITIES

· Newsweep - one key erase, copy, rename and print, plus many other features. Ideal for sorting out your disc collection quickly and efficiently . Superzap - disc sector editor - edit by track/sector or filename. Fully menu-driven with cursor key SETKEYS file . DisckitA - multi-choice disc formatter, offers 178k data format for PCW discs and 5.25" second drive formatting • Unerase erased files • Read/write PCW discs on a CPC • CP/Mv2.2 emulator • Make - allows you to copy files across user areas · Cleanup - useful for speedy file deletion . Lookat- speedily lists any file in Hex and ASCII · Screen Dump (CPC only) · Password · Easy Lister · Password Protection · File · Scrambler • File Splitter • Directory check

CPC Ref: #606 PCW Ref: #806

TEXT PROCESSING UTILITIES

· Sideways - prints text file sideways on an Epsoncompatible printer. Ideal for those wide spreadsheets • Sort any ASCII list into alphabetical order · Word count - can be used on any ASCII file · WSClean - removes higher order bits from a text file and converts it to straight ASCII · Calendar Generator - prints out calendar for any year . Simple Spell Checker - with starter dictionary and dictionary editor • Scoring card generator • Banner printers • Typewriter emulator

CPC Ref: #607 PCW Ref: #807

DISC ORGANISATION

Catalogue your disc collection and produce a printed index. Useful for speedy location of files and for keeping your discs in order. Library utilities for archiving and saving disc space. File dating system. Squeeze and unsqueeze for saving up to 40% disc space. Menu system - allows menudriven access to programs on a disc. Completely and easily user-definable.

CPC Ref: #608 PCW Ref: #808

Z80 PROGRAMMER

A complete Z80 Assembler which is capable of converting an ASCII assembler file into a fully executable machine code .COM program. Plus Z80 Disassembler, Z80 Debugger, Z80 Library, 8080 Disassembler, Z80 to 8080 Translator and associated utilities.

CPC Ref: #609 PCW Ref: #809

'C' PROGRAMMER

The Small 'C' Compiler by Mike Bernson. Includes source code and 25k of documentation. Produces executable .COM programs.

CPC Ref: #610 PCW Ref: #810

'C' TOOLBOX

A disc full of 'C' source code examples together with the corresponding executable .COM programs. Useful to those wishing to see some practical examples of 'C'. As a bonus, the programs are quite useful too. The 'C' source was written for a variety of compilers and may need modifying to compile on MIX or Small 'C'.

CPC Ref: #611 PCW Ref: #811

FORTH, STOIC AND 'C' INTERPRETER

For experimenters interested in using these languages. Documentation is included on disc.

CPC Ref: #612 PCW Ref: #812

GAMES COMPENDIUM

A varied selection of the best machine code programs available for CP/M. Includes Pacman. Snake (PCW only), Chess, Othello, Mastermind, Spellit, Awari, Life, Golf, Polish Pong, Maze, Biorhythms, Word Search puzzle maker, TicTacTo. CPC Ref: #613 PCW Ref: #813

ADVENTURES

· Colossal Cave Adventure which originated on main frame computers. With game save and reload • Bestiary (written in Mallard Basic for either PCW or 6128 Mallard users. Standard CPC users see Adventurer's Attic March 1989)- you play the part of a young prince, your greatest love being to read the ancient bestiaries about strange and often legendary animals. Your task is to find a solution to the terrible blight which, one year, destroys both crops and animals in the kingdom. Includes game save and re-load • Return from Arg - a short but interesting new adventure written in 'C

CPC Ref: #614 PCW Ref: #814

PCW GRAPHICS (PCW only)

Simple user-designed graphics drawing program. Enables you to create, save, edit and print pictures on your PCW. Plot lines, points, boxes, four fill patterns, easy to use and wholly interactive • PCW Screen Font designer with several ready-to-run font sets . Biomorph - fascinating, graphic demonstration of natural selection - develop your own bugs! · Readme - program to display any ASCII text file in 45 character format on the 90 character screen - makes it easier to read.

PCW Ref: #815

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You may either order over the phone by credit card or by post. It is very important that you get the reference number correct. CPC and PCW discs are different. (Software contained on 3" discs only). The cost per disc is \$17.50. • BANKCARD, MASTERCARD & VISA accepted •

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Desk Top Publisher MicroDesign 2 - new superb integrated Page Pr compatible with AMX or Kempston mouse Newsdesk International Stop Press (program only) Stop Press (program + mouse and interface) PCW DATABASES	169.00 89.00 149.00 299.00	8256/512 'Seal 'n' Type' KEYBOARD PROTEC Stops damaging spills etc. 9512 'Seal 'n' Type' KEYBOARD PROTECTO! Stops damaging spills etc. CPS8256 SERIAL INTERFACE for PCWs for co ications or adding extra printers AMX MOUSE plus interface - the most popular	29.95 R 29.95 ommun- 145.00 and sought	LOCOSPELL2 The following are for PCW 8000s using LocoScript 2.12 and above (Please state 8000: 24 PIN PRINTER DRIVER - suitable for most 24 printers attached to 8000s PRINTER CHARACTER SET DISC for defining r character sets	75.00 s): pin printhead 64.95 new 59.95
Desk Top Publisher MicroDesign 2 - new superb integrated Page Pr compatible with AMX or Kempston mouse Newsdesk International Stop Press (program only) Stop Press (program + mouse and interface)	169.00 89.00 149.00	8256/512 'Seal 'n' Type' KEYBOARD PROTEC Stops damaging spills etc. 9512 'Seal 'n' Type' KEYBOARD PROTECTO! Stops damaging spills etc. CPS8256 SERIAL INTERFACE for PCWs for co ications or adding extra printers	29.95 R 29.95 ommun- 145.00 and sought	LOCOSPELL2 The following are for PCW 8000s using LocoScript 2.12 and above (Please state 8000: 24 PIN PRINTER DRIVER - suitable for most 24 printers attached to 8000s PRINTER CHARACTER SET DISC for defining r	75.00 s): pin printhead 64.95 new 59.95
Desk Top Publisher MicroDesign 2 - new superb integrated Page Pr compatible with AMX or Kempston mouse Newsdesk International Stop Press (program only) Stop Press (program + mouse and interface) PCW DATABASES Cardbox Plus	169.00 89.00 149.00 299.00	8256/512 'Seal 'n' Type' KEYBOARD PROTEC Stops damaging spills etc. 9512 'Seal 'n' Type' KEYBOARD PROTECTO! Stops damaging spills etc. CPS8256 SERIAL INTERFACE for PCWs for co ications or adding extra printers AMX MOUSE plus interface - the most popular	29.95 R 29.95 ommun- 145.00 and sought stop Press 165.00	LOCOSPELL2 The following are for PCW 8000s using LocoScript 2.12 and above (Please state 8000: 24 PIN PRINTER DRIVER - suitable for most 24 printers attached to 8000s PRINTER CHARACTER SET DISC for defining r character sets EXTRA PRINTER DRIVERS DISC containing a F	75.00 s): pin printhead 64.95 new 59.95 Printer File 59.95
Desk Top Publisher MicroDesign 2 - new superb integrated Page Procompatible with AMX or Kempston mouse Newsdesk International Stop Press (program only) Stop Press (program + mouse and interface) PCW DATABASES Cardbox Plus Condor One	169.00 89.00 149.00 299.00	8256/512 'Seal 'n' Type' KEYBOARD PROTECT Stops damaging spills etc. 9512 'Seal 'n' Type' KEYBOARD PROTECTO! Stops damaging spills etc. CPS8256 SERIAL INTERFACE for PCWs for co ications or adding extra printers AMX MOUSE plus interface - the most popular after peripherals for your PCW, especially with S KEMPSTON MOUSE plus interface - new styll mouse supplied with Jeeves (memory reside	29.95 R 29.95 mmun- 145.00 and sought stop Press 165.00 e two-button nt desktop	LOCOSPELL2 The following are for PCW 8000s using LocoScript 2.12 and above (Please state 8000: 24 PIN PRINTER DRIVER - suitable for most 24 printers attached to 8000s PRINTER CHARACTER SET DISC for defining richaracter sets EXTRA PRINTER DRIVERS DISC containing a For every LocoScript2 compatible printer KEYBOARDS DISC to configure LocoScript2 to American, Canadian, Danish, English, French, Gri	75.00 s): pin printhead 64.95 new 59.95 Printer File 59.95 use erman,
Desk Top Publisher MicroDesign 2 - new superb integrated Page Procompatible with AMX or Kempston mouse Newsdesk International Stop Press (program only) Stop Press (program + mouse and interface) PCW DATABASES Cardbox Plus Condor One Masterfile 8000	99.00 149.00 149.00 299.00	8256/512 'Seal 'n' Type' KEYBOARD PROTECT Stops damaging spills etc. 9512 'Seal 'n' Type' KEYBOARD PROTECTO! Stops damaging spills etc. CPS8256 SERIAL INTERFACE for PCWs for co ications or adding extra printers AMX MOUSE plus interface - the most popular after peripherals for your PCW, especially with S KEMPSTON MOUSE plus interface - new styl mouse supplied with Jeeves (memory reside accessories) and Daatafax personal organise	29.95 R 29.95 commun- 145.00 and sought clop Press 165.00 e two-button nt desktop or program.	LOCOSPELL2 The following are for PCW 8000s using LocoScript 2.12 and above (Please state 8000: 24 PIN PRINTER DRIVER - suitable for most 24 printers attached to 8000s PRINTER CHARACTER SET DISC for defining r character sets EXTRA PRINTER DRIVERS DISC containing a For every LocoScript2 compatible printer KEYBOARDS DISC to configure LocoScript2 to a American, Canadian, Danish, English, French, Giltalian, Norwegian, Spanish or Swedish keyboard	75.00 s): pin printhead 64.95 new 59.95 Printer File 59.95 use erman, I layouts
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Desk Top Publisher Micro Design 2 - new superb integrated Page Procompatible with AMX or Kempston mouse Newsdesk International Stop Press (program only) Stop Press (program + mouse and interface) PCW DATABASES Cardbox Plus Condor One Masterfile 8000 TAIT Database and Labeller PCW MISCELLANEOUS BRAINSTORM - tool for structuring raw ideas in a manner DATASTORE II - menu-driven customised report gmailing list and label printer. Can be used with type Supertype II. FLIPPER 2 - splits your PCW (8256, 8512 or 9512 into two environments and lets you flip between the between CP/M and Loco2. Not suitable for LocoSciunto two environments and lets you flip between the between CP/M and Loco2. Not suitable for LocoSciunto Type III is latest version (2.0) provides the means to creasional graphics output and more. Source code inci (All PCWs) LIGHTNING BASIC PLUS - turbo charge your Mali (All PCWs) MASTER PAINT - deluxe graphics program, for use either mouse or keys	99.00 149.00 299.00 149.00 149.00 119.00 29.95 logical 79.00 generator, estyler 89.95 2) memory em, eg. ript 1. 89.95 ate profe-luded 75.00 llard Basic 75.00 e with 49.95	8256/512 'Seal 'n' Type' KEYBOARD PROTECTOR Stops damaging spills etc. 9512 'Seal 'n' Type' KEYBOARD PROTECTOR Stops damaging spills etc. CPS8256 SERIAL INTERFACE for PCWs for colorations or adding extra printers AMX MOUSE plus interface - the most popular after peripherals for your PCW, especially with S KEMPSTON MOUSE plus interface - new stylmouse supplied with Jeeves (memory reside accessories) and Daatafax personal organise Mouse can be used with Stop Press, Desktop the new MicroDesign 2 package. PCW JOYSTICK INTERFACE from Kempston SCANNER - Master Pack - a scanning device w to a PCW printer head to copy photos or other at Master Scan software and MasterPaint, a power package. Compatible with Desktop Publisher, FS Newsdesk International (8256 and 8512s only) SCA RAMPAC 512k EXPANSION UNIT - simp the expansion port of any PCW. Adds an extr 'M' drive allowing LocoScript2, Locomail, Loc more to be loaded at the same time. Through allows other peripherals (eg. a mouse interfar parallel interface) to be used at the same time. Unless stated otherwise, please a following P and P charges to your retaustralia Order value under \$20 \$1.00	29.95 R 29.95 mmun- 145.00 and sought stop Press 165.00 e two-button nt desktop or program. Publisher or 175.00 49.95 hich attaches rt work, full graphics SE and 279.00 ly plugs into a 512k to the cospell and connector ce or serial/e. 299.00 dd the mittance: Dverseas \$2.50	LOCOSPELL2 The following are for PCW 8000s using LocoScript 2.12 and above (Please state 8000: 24 PIN PRINTER DRIVER - suitable for most 24 printers attached to 8000s PRINTER CHARACTER SET DISC for defining recharacter sets EXTRA PRINTER DRIVERS DISC containing a For every LocoScript2 compatible printer KEYBOARDS DISC to configure LocoScript2 to to American, Canadian, Danish, English, French, Geltalian, Norwegian, Spanish or Swedish keyboard with any nationality of LocoScript2. LOCOFILE/8000 - the resident 'pop-up' database LocoScript2 LOCOFILE/LOCOMAIL 8000 - the 'pop-up' database LocoScript2 LOCOFILE/BOTT SET 1 adds nine extra fonts to your printer LOCOFONT SET 2 adds a further set of five font matrix printer LOCOKEY to customise your keyboard LOCOMAIL SORTING PROGRAM LOCOMAIL2 EXAMPLES DISC LOCOMAIL2 NEW USER GUIDE The following are for PCW 9512s (Please state 9512 when ordering): 24 PIN PRINTER DRIVER - suitable for most 24 printers attached to the 9512	75.00 s): pin printhead 64.95 new 59.95 Printer File 59.95 use erman, layouts 59.95 of or 110.00 pase with 185.00 matrix 75.00 ts to your 65.00 59.95 39.95 17.50 54.95 pin printhead 64.95
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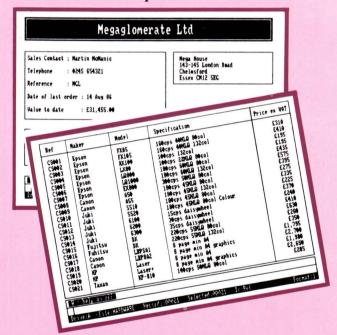
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Invoice	Tax point	Anount	Date paid	Co	Find key = or /
12004	29 Aug 87	£235.00	●2 Oct 87		Print single record
12399	29 Aug 87	£98.00	02 Oct 87		Insert new record
12450	01 Oct 87	£305.00		re	Show re-sequenced
12453	21 Oct 87	£133.00			Rotate format
12533	03 Nov 87	£1,004.50			Go to search Exit to main menu
12598	10 Nov 87	£355.65	***		Exit to hail Held
12703	11 Nov 87	£200.00			•
12782	11 Nov 87	£39.20			
12839	04 Dec 87	£883.55	44 Dec 87	Cas	sh with order
lotals:		£3,253.90			

Keyed files are maintained automatically in key sequence, with never any need to sort. You can have unkeyed files too, where records can be inserted at any point in the file.

Any file can make RELATIONAL references to up to EIGHT read-only keyed files, the linkage being effected purely by the use of matching file and data names.

You can import/merge ASCII files (e.g. from MASTERFILE III), or export any data (e.g. to a word processor), and merge files. For keyed files this is a true merge, not just an append operation. By virtue of export and re-import you can make a copy of a file in another key sequence. New data fields can be added at any time.

File searches combine flexibility with speed. (MASTERFILE 8000 usually waits for you, not the other way around.) You can even assign subsets of a file into one or more of seven pigeon-holes for subsequent reference or further manipulation.



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