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CP/M packages contain some Public Domain Software which is supplied by the publisher. Software Maintenance: Purchasers of earlier versions can upgrade by returning original packages. All discs now available in 5 1/4 inch format - deduct £1 from above prices when ordering this size

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ETER SET LOADER - 12 ready-to-run
KEYWORDS allocated to function &
assembled to control keys. 8 MONITOR &
Assembler - Helps make machine
useful for finding out how machine
DISC or TAPE labels with titles
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UP - Can be merged with your
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- 4 KEYBOARD EDITOR...allocates 10 different keys to perform run-time functions easily.
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- 7 ASSEMBLER...helps make code, print or edit words in memory.
- 8 DIS-ASSEMBLER...helps make code, program, with file SAVE & LOAD.
- 9 DIRECTORY PRINTER...automatically prints machine code programs.
- 10 FILE CHARTS - AN FPN...prints program size; or tape.
- 12 UTILITY MANAGER gives one key ERASE, RENAME, CAT, JUMP, and select HELP pages.

* DISC £9.95 incl P&P. Utilities 1-10 are available on TAPE £6.95 *

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NEWS AND VIEWS

HAPPY BIRTHDAY

This month is the First Birthday of Advantage Computer User Group and we would like to thank all our members for their support during the past year. Particular thanks go to those faithful few who regularly write in and contribute articles and advice.

As you see, this Newsletter is in the new A5 format. Production at this size provides for an increase in content without increasing costs. As most members who responded to the recent questionnaire said they would not object to this size (apologies to the two who did) we felt that it was the right thing to do.

The centrepiece of the cover features our very first advertisement which went out in the June issue of Computing With The Amstrad. Alas this only attracted a handful of members and it wasn't until we started to offer software that things really took off.

THE NEXT YEAR

Looking ahead to future issues, the aim is to give equal coverage to the CPC and PCW ranges of computers. Of course we can't wait to get our hands on the next model that Mr Sugar brings out as we are sure that it will prove to be his biggest seller yet. Moving to a 16 bit machine and a standard operating system will open up a whole new field for both hardware and software developers.

For some this is the last issue in their first year's subscription. Can we remind you that if you want to continue for another year, receiving more Newsletters and benefitting from the many new items that will be offered, please renew your subscription now.

NEWS AND VIEWS

PROFESSIONAL HELP

Someone has eventually decided to make a committed effort to provide a proper service to the many Amstrad owners who are struggling with tape to disc transfer.

Whilst Pride Utilities, Siren, Media Transfer and Advantage have made a fair effort to help those in need of such a service, it has always been only a small part of their mainstream activities.

Now Goldmark Systems have been set up exclusively to deal with this one topic. Formed by one of our members, Brian Barton, the new company have got off to a good start by publishing half page advertisements in the Amstrad press, detailing their intentions.

For a fee of £20 (more overseas), members of the Goldmark Club will be kept up to date on methods for transferring a large number of commercial packages from tape to disc, both old and new. A monthly newsletter, the latest releases and utility tapes will be sent to members during their subscription

We have just received our Starter Pack and it includes two nicely bound booklets; one for the Transmat Information Exchange notes and the other for the Newsletters. The format is A5 (!) and is well-presented. Because of the connections with Pride Utilities, it is obviously biased towards their Transmat, but many of the routines would probably work with Back-Up or Discovery.

It certainly looks as though Goldmark mean business but they will have their work cut out to keep up with all the new software and enquiries. They are located at 51 Comet Road, Hatfield, Herts AL10 0SY. (Tel 07072 71529).

NEWS & VIEWS

INTRO

First of all I would like to welcome all Amsclub members on-board. I hope you all benefit from being part of Advantage. I also trust that existing Advantage members will benefit from the enlarged membership by sharing views and problems, via the Newsletter, with a greater number of users.

For the benefit of all members, we have printed updated Terms and Conditions of membership in the back of the Newsletter.

DATA PROTECTION

Investigation of the impact of the Data Protection Act in respect of computer user groups has indicated that we do not have to register but we are obliged to point out to all members that we keep a record of their name and address only, in a computer text file. If there are any objections to this please inform us in writing as soon as possible.

COMPETITION RESULTS

Thanks to all of you who returned their competition entry form and questionnaire.

The winners are:-

FIRST PRIZE - P HAYDEN

SECOND PRIZE - DALE GRIEF

THIRD PRIZE - SHAUN ROWLEY

The third prize of The Hobbit has been despatched but Dale already has Mini Office Two so although this was the second prize, Dale, if you prefer something else to the same value, please write in and a say.

We await your order for software up to the value of £30. Mr Hayden

NEWS & VIEWS

QUESTIONNAIRE

A wide variety of comments were made. One point that came over was the need for members to talk to each other directly (see Members Forum column). Another was the need for more hardware and software reviews. If any member would like to write a page or so about a new product (not too expensive!) then let us know. If we feel the review would be suitable we will obtain the product for you. Should we like the review, you may keep the product (whether you give it a good review or not!)

Favourite serious software was Tasword but there was no clear favourite Game.

ABOUT DISCS

Although it's not getting much publicity and Amstrad pretend to be unaware of a problem, there is a very real shortage of 3" discs in quantities over 10 or so. This is inevitably driving the prices up when they should be coming down and no doubt the end user will have to pay.

Although we are currently paying considerably more for discs we intend to hold the prices of our software packages for as long as possible, but we cannot supply blank discs.

USER GROUPS

We are still waiting to hear from The Amstrad User Software Database. An advertisement was published in the May 1986 issue of Computing With The Amstrad for the National Independent Amstrad User Group (Haven't I heard a similar phrase somewhere before?). I think they originate from Harrow Computer Club. Hopefully we will get some details from them.



MEMBERS' FORUM

ON GRAPHIC SYSTEM EXTENSIONS

We were deafened by the silence when we asked in our 10th Newsletter if anyone had dabbled with the GSX graphics pack supplied with CP/M 3.0. There is however a three page article on the package, which includes some worked examples, in the May Amstrad Computer User magazine.

It looks as though they will be publishing further articles on the subject. Perhaps they will help clear some of the mysteries and even lead to some form of graphics presentations on the PCW computers.

BOOKS ON CP/M

Also carried over from the last Forum, here is another recommended book on CP/M. It's "CP/M Plus - The Software Bus" by Clarke, Eaton and Powys-Lybbe, published by Sigma at £8.95. It would seem that they are founder members of the UK CP/M User Group. The book describes the history and structure of CP/M, the differences between version 2.2 and 3.0 and gives a good account of utilities such as PIP and ED.

CLOSE ENCOUNTERS

Bob Redding would be happy to have a chat with any members who care to contact him at September House, Cox Green Lane, Maidenhead, Berks Tel 0628 24929. His particular interests are in communications and electronic mail. He says that he could organise a simple bulletin board for Amstrad Specialities if there is sufficient interest. If other members would like their name and address or telephone number published, please let us know.

CORRUPTION IN GLOUCESTERSHIRE

Derek Cook managed to corrupt the end of one of his BASIC files during the course of Saving and Loading from disc. The symptom was a weird error message referring to a non-existent Line Number. It is not clear how the file was corrupted but it seemed as though the Operating System miscalculated where the proper end of the file was located.

We suggested that he go into CP/M and then inspect the file using our HEX and ASCII dump utility. Sure enough, this revealed that at the end of the BASIC program were remnants of the scratch area used by the computer for storing variables, which is normally located in the area of memory above the BASIC.

To restore the program to its normal state, the program was loaded and then saved as an ASCII file using SAVE"filename",A. It was then loaded into a text editor (ACE or TASWORD etc) and the offending tail end erased. The file was saved back to disc and, lo and behold, now runs properly. Here's hoping that this little manipulation will save other members the agony of re-typing what appears to be a corrupted program - use your CP/M utilities!

MEMBERS' FORUM

NOTHING TO RUN

John Dudney is one of several members who purchased a computer and is now having difficulties in using it due to the non-availability of various items, "Can't get printer. Can't get enough discs to get started seriously. Ordered Mini Office II 3 weeks ago but still waiting for it."

We've been ringing Database at three-weekly intervals and, when we get through, they say sorry it will be another three weeks late. We are also still awaiting other discs from them. It seems an all too common malaise that software is advertised and publicised well before it is ready. The shortage of discs we have already discussed.

DUFF GEN

Apologies now for a few inaccuracies in our CP/M documentation. Points have been raised by a couple of users and we would like to thank especially, Mr H E Chapman for a very detailed description of the procedure to copy programs on to PCW format discs.

The Directory program D has some "undiscovered" features which can be accessed by entering a simple command. Like a lot of PD software this was not documented. The description in the notes supplied was for another type of sorted directory program called NI.COM. We decided, after the documentation was done, to replace it with D.COM as we judged it to be the better of the two. For a list of the functions available type in D /H (space between the D and the /).

The advice given and further observations that we have made plus more comprehensive loading and copying instructions for the various machines will appear in the next issue of the software compilations, which will soon be ready (see Database Index).

CURRENT ISSUES

Those of you who have tried using the "banner" printer program called GOTHIC will probably have seen some characters breaking up. These sort of programs prefer to drive simple line printers and are not so clever with more modern machines but we have found an improvement if you set the printer to condensed mode before running the program. Apparently it likes to see 132 characters per line.

On more recent copies of our discs we have altered the SETUP file to give a grey rather than bright white background colour when run on CP/M Version 2.2. A proper ESC code has been assigned to the ESC key and, at boot-up, an automatic DIR is run. If you prefer the original SETUP then use BOOTGEN on the disc supplied.

AND FINALLY

Some of the other comments and suggestions which have been made by members will be taken up in this and forthcoming issues of the Newsletter. Don't forget, this is YOUR user group, please support it.

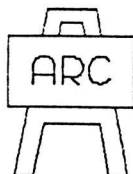
EDUCATIONAL SOFTWARE

An area that has been criticised in the past, is the lack of quality Educational Software for the Amstrad computers. A couple of companies are putting things right by issuing a number of useful programs. The first is School Software Ltd who offer Maths for 4-8 yrs and 12-16yrs, Spelling for 9-14yrs and Physics for 12-16yrs. According to reviews in Amstrad Action, although they are still games oriented they offer well chosen questions and exercises. The programs are available at £9.95 for cassette and £11.95 for disc but Advantage members are entitled to a 20% discount.

The second supplier is ARC Education run by A R Cordell. The profits from the software go to charity and Advantage members are entitled to a 10% discount. Details are given below.

ARC EDUCATION.

ARC offers you a personal service, backed by fifteen years teaching experience, plus the expertise of computer programming. The programs were originally developed for use in the classroom, where they have had extensive use over the past four years. Several parents showed an interest and it was decided, in October 1985, to offer them for use in the home. The response to the first advertisements proved that there were many parents looking for this kind of material. The complimentary letters and orders for more programs, showed that the decision was right. Learning is not confined to the classroom. As a parent, you are well aware that a child begins learning at a very early age. Time spent with a child, at home, can reap many benefits. Primary sets are for ages 4 to 6. Junior sets for ages 6 to 10. This is only a rough guide, however, as experience has proved. Every child has individual abilities and many 3 year olds can use the Primary programs. At the other end of the scale, older, less able children, enjoy using all of the sets. As you can see by the list, a wide variety is provided in each set, to cater for all tastes. All of them are fun to use, as well as being instructive. Please feel free to contact me, at any time, if you have any questions, suggestions, or if you need help. Contacts with parents can help me to provide an even better service for their children.



A. R. Cordell.
ARC Education,
53 Bentley Street,
Cleethorpes.
Stb. Humberside.
DN35 8DL Tel. (0472)699632

PRICE LIST.

EDUCATION PROGRAM SETS.

Any one set of Junior or Primary.....	£5.00 + 50p Post/Packing.
Any two sets " "	£4.75 each. POST FREE.
Any three sets " "	£4.50 each. POST FREE.
Any four sets " "	£4.25 each. POST FREE.
Any five sets " "	£4.00 each. POST FREE.
Any six sets " "	£3.75 each. POST FREE.
All seven sets	£3.50 each. POST FREE.



For all Amstrad models(except PCW8256)

Education

JUNIOR Set 1.

1. WEIGH. A novel way to improve addition/subtraction.
 2. CLASS. Place the pupils at their desks. Simple coordinates.
 3. TREASURE. Compass directions and logic to find the treasure.
 4. SHARE. A graphic introduction to division. With remainders.
 5. ESTIMATE. Visual comparison of centimetre lengths.
 6. REACTIONS. Visual awareness and manual dexterity.
 7. ANIMALS. Word game .General knowledge and spelling tutor.
-

JUNIOR Set 2.

1. ALPHA CHOICE. Game of logic, with clues. Capital alphabet.
 2. COMPASS. Artistic game. Uses the points of the compass.
 3. DUCKSHOOT. Target game. Develops mental arithmetic skills.
 4. PUTTING. Estimate the distance to the hole and sink the ball.
 5. LETTERS. Find the correct key to stop that rising letter.
 6. WORDS. Fit the correct word into the sentence.
 7. DICE. Count those dots..but be quick! Test of speed and wits.
-

JUNIOR Set 3.

1. AREA. Random rectangles or own choice.Help provided if needed.
 2. RING THE BELL. Match the secret number. Clues by visual scale.
 3. MULTIPLY. Simple multiplication with marbles.
 4. TABLES. Visual chart.You pick the numbers..Arnold has the answer!
 5. BINARY DESIGN. Defines graphics and shows binary/decimal.
 6. QUICK PEEK. Sharp eyesight to spot those letters. Two levels.
 7. DOT TO DOT. Create pictures and save them.Samples provided.
-

JUNIOR set 4.

1. ARCHERY. Aim at the Target and score. Mental addition.
 2. MATCHES. Memory testing. Nine pairs of symbols to match up.
 3. SNOOKER. Potting with graphics. Do you know the score?
 4. SPELLBOUND. Fascinating animated spelling tutor. Fun to use.
 5. TAKE. Calculation and strategy game for two. Like NIM.
 6. SEQUENCES. Random number sequences. Calculate the next number.
 7. ANAGRAMS. Solve the set of mixed-up words. With clues.
-

PRIMARY Set 1.

Contains seven programs for the pre-school and infant school child. Simple games to aid Letter Recognition, UPPER AND Lower case, Alphabet Learning, Counting, Simple addition. Music Keyboard, Build a House, Colour Palette, Memory Game, Sketch Pad etc. Parents notes supplied.

PRIMARY Set 2.

Seven more programs for younger children. A Story, Number games, Sizes to put in order, Dig for treasure with clues, Secret Number,Add On Number bonds, Postman Pat, Odd and Even and a simple Bingo game. Adjust level of difficulty or change words as required. Parents notes.

PRIMARY Set 3.

Another seven programs for youngsters.This set contains Kaleidoscope, Name Juggle, Skittles, Take-away, Next Letter, Smiley,Colour Match.Etc. As usual, parents may adjust levels of difficulty to suit age and ability. Develops memory, visual ability and dexterity. Parents notes included.

Two years ago I was invited by the IMC to study and advise on the use of computer access to databases and information retrieval. It has been difficult to bring this to any conclusion because investigations have proved disappointing but the situation is continually changing. Every few months a new facility comes into prominence only to be overtaken by another which appears to have less 'bugs'.

The problems of databases

A database like INSPEC lists all the published literature on electronic engineering but it costs about £50 an hour to use. You need to be a skilled searcher and the information is more than a year old. Prestel gives you immediate access to receive or send information but it is an all-purpose system with contents so vast it is difficult to find your way around.

Its commercial aim seems to be to sell telephone time and much use of it is made by advertising and publicity people who confuse fancy graphics with information. Thus a search for a train time means accessing a number of pages and answering a series of questions by pushing buttons, probably ending up with a telephone number which one knew in the first place! There is information buried there and once you know the right 8 to 11 figure number for a particular area, you can go straight to it. Banking and shopping has been tried but

does not seem a good use of the facility, and the main growth seems to be in private View-data systems and Bulletin Boards. By dialling a specific service, you get information on that particular topic, but it highlights another snag, viz, if it is 'one-to-one' there is a good chance of the line being busy.

One apparent answer to this is 'electronic mail' where in effect a group has its own Bulletin Board or telephone answering machine. It has one great advantage - one can communicate without the other person being available. However, it can be cumbersome for lengthy information as opposed to specific messages and requires some skill at typing. There is a way around this by using 'facsimile' or voice, but the machines tend to be too expensive for home use.

Avoiding the telephone system

To digress for a moment, why use the overloaded telephone system anyway? Are

we really making full use of the electronic storage and searching capabilities of the computer? Why not download information into the memory of the computer and so that it is available to look at when we want it? We do not have to read it - we can use computer's search facilities to find what we require.

Similarly why not broadcast data at night from the local FM radio stations to be taken down against a time schedule to produce your newspaper of selected items? The problems are being tested by amateurs - the people who do things for the right reasons - see references below.

The great thing is to start doing something and then, not only do the problems come up but so do the solutions. As an example some three years ago the subject of modems was sacred because one could only hire these at great expense from the GPO. Enthusiasts in a computer club tried to get over the problems of electrical safety

approval of a modem. The result is one which uses no power supply at all, and modems are available in the High Street shops! The new style uses no coils or inductors and can be made on a single silicon chip. We need the same rate of progress in Systems engineering.

American solution

Some experience of the ISA is pertinent. The vast distances in the USA led to serious trials of electronic conferencing for both committee meetings and the writing of Standards via a central computer database. However, the \$75 monthly charges of the EIES system in New Jersey has led to a decision to make electronic mail available to all members of the ISA by their own Bulletin Board system, which, due to the phone infrastructure is accessible by anyone in the US and Canada for the cost of a local telephone call.

London Bulletin Board

Technical and commercial incompatibilities make it difficult to enfranchise their UK and European members. One idea being explored at the moment is the setting up of a Bulletin Board in London, with a weekly update from the ISA. Such a board could serve many other UK organisations of a similar ilk, either on an open or a restricted access basis, and would reduce the telephone charges in the off peak period to a maximum of about 10p per minute.

The aim is to provide a 'mainly one-way' system, assuming that engineers can't type, using 'V23', ie 1200/75 baud, the same as Prestel, and in fact it might be accessible by anyone with a Prestel system. The Bulletin Board would keep 'interaction' to a minimum for simplicity - one would see a menu, and key a letter to choose an item. It would be downloaded about 100 characters per second so that one call need only last a minute or two. All that is

required is a home computer, and a modem, though a time switch could be set for news and programmes automatically, with an alert system for technical articles and late information against your 'interests profile'. Just think what this could do when the secretary is trying to fix a date for a meeting!

On the other hand, I am convinced that purely local and transient information should be sent by the local broadcasting stations in data form, for automatic recording to be available in memory if and when required, by what is being called 'LANDCASTING', ie Local Area News by Data broadCASTing.

Further reading

'Modems: a link between radio and computer' (October 1984); 'High speed data' (June 1984); 'Pocket Radio' (December 1985) - published in *Radio and Electronics World*, and 'Local area data on radio' to be published shortly in *Wireless World*.

USING THE PCW 8256

ASCII FILING

It was stated in the last edition of this column that the Locoscript word processor will not edit and save straightforward ASCII files without introducing extra control characters.

Whilst this was the case with the first version of the software it is not a problem on the current issue being supplied with new machines. If you have the earlier version why not contact Locoscript or Amstrad and ask for a free update?

FIT TO PRINT

Several users have asked if the PCW can be used with a more up-market printer, such as a daisy wheel, in order to obtain a more professional finish to their documents. The basic answer is no. The reason is that the computer-to-printer interface is unique to the PCW. In most other systems, the electronics is split between the computer and the printer and a standard parallel or serial interface links the two.

On the PCW, probably to keep the size of the printer small, the electronics are all inside the computer thus eliminating the possibility of hooking up any other type of printer with a standard interface.

MALLARD DUCKS

After a preliminary investigation of Mallard BASIC, mainly with a view to adapting some of the utilities and games available for the CPC range, it is clear that the task is not going to be easy and it is going to be a very different program by the time the conversion has been done.

A major drawback lies in the absence of a large number of commands. Not only are the GRAPHIC and SOUND commands not recognised, quite fundamental commands such as CLS and LOCATE are invalid.

Also eliminated are different MODEs, PEN and PAPER changes (albeit that the computer monitor is black and green, inverse video and shading would have been nice), WINDOWS, KEY definers and SYMBOL commands.

Take all these commands out of the typical BASIC program written for the CPC computers and there is precious little left. Probably a text based, data processing program such as a database or file manager would be viable but there are plenty of these available already written in machine code.

If there is sufficient demand from members it might be worth writing some new software in Mallard BASIC but conversions are probably out.

In a similar vein it would be interesting to see any programs that members have written, even if they are fairly simple. How do you overcome the lack of CLS, LOCATE, KEY DEF, SYMBOL etc?

TERMS & CONDITIONS - APRIL 1986

Advantage was formed in 1985 to support users of the Amstrad range of computers. The primary aims of the group are to offer a forum for the exchange of ideas, knowledge and experience, to monitor standards of commercial products and to provide a range of quality, tested, low-cost software.

The annual membership fee for residents of the United Kingdom and Ireland is £8.95. Overseas membership is £13.95 per year. Members will receive 12 monthly Newsletters. They will be entitled to discounts on items offered by Advantage and will be eligible to enter any competitions organised by the group.

Articles and letters are welcomed for publishing in the Newsletter. They must be original and should not be subject to any copyright restrictions.

Classified advertisements submitted by members will be published in the subsequent Newsletter. The fee is only two pence per word.

Members and traders may send camera-ready artwork for an advertisement to be published at the following rates:-

	1 INSERTION	3 INSERTIONS	12 INSERTIONS
A4 SIZE PAGE	£16	£44	£160
HALF PAGE	£9	£24	£90
QUARTER PAGE	£5	£14	£50

The software available from Advantage is listed in a Database Index in the Newsletter. It is, to the best of our knowledge, operational and the documentation is, to the best of our knowledge, correct but no responsibility will be accepted for damage, injury or expense resulting directly or indirectly from errors or omissions.

All orders must be accompanied by suitable payment, cheque, postal order, international money order or bank notes. Postage and packing costs are included in the prices. Cheques should be made payable to Advantage. Credit card facilities are not available.

Any item which proves to be faulty or is not found to be satisfactory will either be replaced or the price refunded. This guarantee does not affect your statutory rights.

Our policy is to continually review, update and enhance our software. Purchasers can upgrade to the latest issue by returning the original disc or tape plus £1.95 (UK) or £2.95 (Overseas) to cover our processing costs. Tape to disc upgrade is available for £4.95 (UK) or £5.95 (Overseas).

Members may submit their own programs for consideration. They should be supplied on tape or disc, unprotected, with explanatory text. Programs must be original and must not be subject to any copyright restrictions. Should a program be deemed suitable for inclusion in the database, the originator will receive a commission.

IMPORTANT NOTE AMSCLUB Members are entitled to all the benefits of Advantage until March 31st 1987 but will only receive further Newsletters upon payment of the normal membership fee of £8.95.

THE DATABASE INDEX

INTRODUCTION

The main improvement this month is a complete revamp of all CP/M software packages. CP/M II, the utilities disc has been doubled in content to include a total of twenty one programs. Our text editor, ACE, is supplied in two versions and is accompanied by key definer files to make it fully operational on all CPC and PCW computers.

All CP/M packages now come with more comprehensive documentation files, on-disc for ready access and print-out. Programs are mostly from Public Domain Software and whilst we have tested and documented them, they are supplied as-is. The programs will run under CP/M 2.2 and 3.0 on CPC and PCW computers unless otherwise indicated. Don't forget, purchasers of earlier versions of any disc can obtain an update by returning the original disc plus £1.95.

Some of the BASIC programs are modified and improved versions of programs published by Database Publications. They have all been thoroughly debugged and tested. We have permission to offer these programs to members but they are still subject to the original and our own copyright.

Tape-based software is primarily intended for users who have no disc drive and is tailored accordingly. It is not therefore recommended that disc users buy the tape and transfer it themselves as they will not benefit from extra disc-orientated facilities.

The entry code must be quoted when ordering an item from the database along with membership number or name and address. Please use the order form supplied.

PLEASE NOTE:- Due to the current acute disc shortage, whilst we endeavour to fulfil orders by return, delays can occur so please allow for this when ordering.

PRICE LIST FOR ADVANTAGE MEMBERS

		<u>UK</u>	<u>OVERSEAS</u>
Annual membership and first renewal		£8.95	£13.95
"21 Games" disc	2001	£8.95	£9.95
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"16 Utilities" disc	5101	£8.95	£9.95
"13 Utilities" tape	5102	£6.95	£7.95
"12 General Items" disc	3001	£8.95	£9.95
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CP/M I Sampler disc	6001	£6.95	£7.95
CP/M II Utilities disc	6101	£8.95	£9.95
CP/M III Games disc	6201	£6.95	£7.95
CP/M IV Utilities disc	6301	£6.95	£7.95
Library cases for cassettes (5)		£1.50	£3.00
Printed text files from database		£0.50	£1.00
Back Issues of Advantage Newsletter 1-10		£0.50	£1.00
Back Issues of Amsclub Magazine Tape 1-10		£1.00	£2.00

All prices include postage and packing.

THE DATABASE INDEX

APPLICATION NOTES, TIPS AND REVIEWS	TEXT FILES
Word Processor Review (Easi-Amsword and Tasword)	Ref 1001
Applications For Business (an explanation of the jargon)	Ref 1002
MasterCalc Review	Ref 1003
Gemini Database and Report Writer Reviews	Ref 1004
Book Review (four books)	Ref 1006
Handy Reference Guide To Graphics	Ref 1008
Handy Reference Guide To Sound	Ref 1009
Tips On Programming Techniques	Ref 1010
Handy Reference Guide To Disc System	Ref 1011
Hints On Tape To Disc Back-ups I & II	Ref 1020
Database Directory (more detailed information)	Ref 1200

SOFTWARE PACKAGES

21 GAMES PROGRAMS on disc or tape (CPC only) Ref 2001

BUTTON HOLES A version of the well-known "Mastermind" game
 CATCHEE MONKEE Chase him round a new maze in each game
 GOBLIN GOBLIN A variation on the "Pac-Man" theme
 SIMON SAYS A computer version of the hand-held game
 THREE BY FOUR A 3D 4-in-a-row with 9 skill levels
 SWAMP Help cut down the frogspawn population
 STARCOM Test your skills with the joystick
 REFUEL You must refuel on an inhospitable planet
 DROPOUT Open the trapdoors in this ladders and platforms game
 SUBHUNT Drop depth charges from your warship
 SPELLING BEE Spelling game with user-definable word lists
 ODD MAN OUT Choose the word that doesn't rhyme
 TRAIN Load the right letters from crane to train to spell
 TIME TEST Learning to tell the time in a colourful way
 NIM The classic mathematical challenge
 MISSILE Save the Earth from the alien invaders
 TRUCKING Load and deliver
 HOMEBASE Defend your position
 STARLINE A game of cunning and strategy
 OTHELLO The famous strategy game
 LASERLIGHT A destroy or be destroyed variation

Game selection may vary slightly from time to time.

12 GENERAL PROGRAMS on disc (CPC only) Ref 3001

Includes MENU GENERATOR, DRAWING, BIORHYTHM CALCULATOR, CHORD CALCULATOR, SCROLLER, WORDSQUARE PUZZLE SOLVER, 3D GRAPHICS, TUNE CREATOR, RHYTHM MACHINE, VARIABLE DUMP, FUNCTION KEY LISTER, HEX-BINARY-DECIMAL CONVERTER

16 UTILITIES on disc or 13 on tape (CPC only) Ref 5100

Includes BACKUP, CHARACTER DESIGNER, 12 ready-to-run CHARACTER SETS, ASSEMBLER, DISASSEMBLER, 2 KEYBOARD DEFINERS, MONITOR, INK CHARTS, DIRECTORY PRINTER, SCREEN DUMP, RSX COMMANDS, TRACER, DISC SECTOR EDITOR, FILE MANAGER, UTILITY MANAGER.

THE DATABASE INDEX

C COMPILER & PROGRAM EDITOR on disc (CPC6128 & PCW only) Ref 8001

Contains all the files and programs to help both the novice and the experienced programmer write and compile C language programs. Now includes a full screen text editor, three help files, utilities and games. Fills both sides of a disc.

CP/M SOFTWARE I Sampler of Utilities and Games on disc Ref 6001

20 FUNCTION FILE MANAGER, ERASED FILE RECOVERY *, TEXT EDITOR, PRINT FORMATTER, DISC SECTOR EDITOR, TYPEWRITER EMULATOR, COLOSSAL CAVE ADVENTURE, COMPUTER CHESS, WORD SEARCH PUZZLE GENERATOR, MAZE DESIGNER, BIO-RHYTHM CALCULATOR, CALENDAR GENERATOR.

CP/M SOFTWARE II Tested Utilities on disc Ref 6101

FULL SCREEN TEXT EDITOR for text files, assembler and BASIC
Z80 ASSEMBLER with full documentation file
REVERSE ASSEMBLER for dis-assembling machine code
LINKER for program development in module form, plus LIBRARY
KEYBOARD DEFINER (2.2 only) allocates strings to any key
FILE SCANNER very quick ASCII listing of any file
FILE EDITOR easy to use sector editor for smaller modifications
FILE COMPARE identifies differences and memory locations
STRING SEARCH identifies location of any entered string on any file
BAD SECTOR ELIMINATOR allows discs with odd faulty sector to be used
20 FUNCTION FILE MANAGER includes mass erase, rename, hide, print
ERASED FILE RECOVERY (2.2 only) restores accidentally erased files
DISC SECTOR EDITOR Comprehensive utility with full documentation
TYPEWRITER EMULATOR for those little jobs where a WP is not needed
plus improved versions of PIP, DDT, LOAD, SUBMIT, DIRECTORY, DUMP and TYPE.

CP/M SOFTWARE III Tested Games & Other Items on disc Ref 6201

DIRECTORY, COLOSSAL CAVE ADVENTURE, COMPUTER CHESS, OTHELLO, GOLF SIMULATION GAME, WORD SEARCH PUZZLE GENERATOR, MAZE DESIGNER, BIO-RHYTHM CALCULATOR, CALENDAR GENERATOR, BANNER PRINTER.

CP/M SOFTWARE IV Tested Utilities on disc Ref 6301

FULL SCREEN TEXT EDITOR, INVENTORY MANAGER, LIBRARY UTILITIES, SQUEEZE & UNSQUEEZE, HELP, WORDCOUNT, SPELLING CHECKER, PASSWORD, SCRAMBLE, UNSPOOLER, for printing while working, plus DIRECTORY

If you have written any programs that you feel may be suitable for inclusion in the database please send them on a cassette or disc (unprotected please) plus any appropriate application notes. Include postage if you want the tape or disc returned. A commission will be paid on all proceeds from items found suitable for inclusion

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