

MERRY CHRISTMAS AND HAPPY NEW YEAR
TO OUR READERS FROM THE EDITOR, ADVERTISERS AND PRINTERS



NATIONAL EINSTEIN USER GROUP FORMING

The South East Einstein User Group, an independent body of national Einstein users, is extending their membership and invites applicants on a national basis. The group offers a free exchange of views and ideas related to Einstein computing and their Secretary has negotiated discounts for the membership for hardware and software purchases.

The success of any user group naturally depends on the number of participating members. For this reason the group is forming a National Einstein Users Group and would like smaller groups to join forces to avoid duplication of effort and to become a strong voice in Einstein computing. Ideas, new members, moans & groans and any news about Einsteins are all welcome to:

William G. Burns, Esq.
Secretary
South East Einstein User Group
6 Spearman Street
Woolwich Common Estate
Woolwich, London SW18 4DG

CRACKER GRAPHICS PACKAGE

A superb Graphics upgrade is NOW available for the cracker. Using the Tatung TP100 or any other Epson Compatible printer, you can now produce Super Hi-Res plots of your data quickly and easily. The new **TRACE** function will allow the user to generate superb graphical representations of their data in any one of the following styles..

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THE EINSTEIN USER DATA-BASE

The Einstein User Data-Base, an independent organisation run by Einstein users to help other Einstein users on a national basis.

The free of charge service is a 3" disc full of helpful information. For example, the database file lists dealers and the services they offer, and private owners and their particular computing interest. The 52K manual explains the lot. In addition there is a growing and constantly changing 'Newsdesk', and announcement board called Userpost and the organisers are about to start the software catalog.

All data is entered free of charge. Current copy discs are also supplied free by sending a blank disc and return postage. Full details can be obtained by contacting:

David Martin, Esq.
Coast and Country Naturist Publications
3 Mayfields Avenue, Scarborough,
North Yorkshire YO12 6DF
Telephone: 0723 370691

BACKGROUND TO TATUNG (UK) LIMITED

Tatung (UK) Limited also undertook the import and specialises in the design, manufacture and marketing of t.v., video, audio and electronic products. The company was established in June 1981 when the Tatung Company of Taiwan acquired the radio and television interests of Decca from Racal Electronics including Decca's Bridgnorth, Shropshire factory and its research and development laboratory in Bradford, West Yorkshire.

The purchase prevented the closure, which seemed inevitable at the time, of the Decca operation with the saving of 540 jobs. Subsequently, the introduction of Tatung's well-proven production methods achieved a significant improvement in operating efficiency and a return to profitability.

Tatung (UK) continued to manufacture and market colour t.v. sets under the Deccacolour brand name while adding established Tatung models to the range. More than \$2 million was invested in plant equipment including computer controlled auto-test and auto-insertion equipment as well as other specially designed production and inspection units. A \$200,000 investment in a fault-finding computer reduced component rejects by 60 per cent.

At the same time, Tatung (UK) Limited extensively broadened its product range to include computers, monitors and terminals. It

also undertook the import and sales of video cassette recorders, portable audio equipment and small home appliances.

By the end of 1982, daily colour t.v. set output had trebled to 600 per day and the average number produced per employee had doubled to three. Turnover had more than quadrupled and market share doubled. All this was achieved with only a 50 per cent increase in the workforce.

Tatung went from strength to strength and soon outgrew the capacity of the Bridgnorth factory. New and larger premises were required and at the end of 1984 Tatung (UK) moved to a 40 acre site at Stafford Park in Telford. The actual factory is an enormous 400,000 square feet which provides a vast production capacity. The company is continuing to grow very quickly with a market share that is rising rapidly.

President and Managing Director, W.T. Lin comments: "The growth of the company has been an outstanding success story achieved as a result of the dedication of our staff and workforce, the introduction of new technology, higher productivity and the support of our parent company, Tatung".

In addition to making a significant contribution to the UK economy, Tatung (UK) plays its part in promoting good relations between Britain and the Republic of China in terms of cultural and social activities.

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Jenart Design is a British company located in the West Country. All the products made by Jenart are designed by Robert Artless, who has applied his engineering knowledge and skill to ensure that covers and cases give 100% protection against harmful dust particles, against such accidents as the spillage of tea or coffee and not least, that they simply do not fall apart.

Jenart's extensive range of dust covers is made from a supported nylon fabric. All the joins are double stitched with rot-proof nylon thread and are fully bound. The nylon material is flameproof and is extremely strong. Incidentally, a couple of companies attempted to destroy Jenart covers by trying to pull them apart physically. They failed and immediately placed orders. Jenart claim, with some justification, that their covers should not need replacing, given normal use. Using modern manufacturing methods and a rigid quality control procedure they ensure the products leave the factory in a perfect condition.

Jenart is rightly proud of being commissioned by Tatung to design the Einstein covers. They supply a number of well known companies in the business

computer and home computer fields and all covers are supplied with the hardware manufacturers logo's clearly displayed.

Jenart has recently been awarded a contract to supply a range of covers to a national British company which is the largest user of computers outside the armed forces. One of Britain's major clearing Banks has also commissioned a range of covers which, at the present time, are on test, at a prototype stage.

In the unlikely event of a Jenart cover failing to give satisfaction, the company always offers a full, money back guarantee. The covers are available direct from:-

Jenart Design,
Spire Lake, Bishops Nympton,
South Molton, Devon. EX36 4NY.
Telephone: 076 97 693.

The cover prices are:

Einstein Monitor/Computer
Cover...£10.95 + £1 p&p

Einstein Printer TP100
Cover...£5.95 + 60p p&p

At the present time, Jenart is making a special offer to all Einstein users of just £17.50 for both covers ordered together.

All their prices include VAT and they work within a 28 day delivery.

SCREENS the official Tatung computer distributors report large attendances to their product seminars held in various locations over the past months. The day long seminars were organised to show the constant developments on Einstein related computing.

Delegates attending the seminars are trade dealers, user groups, professional and company users and individuals keen to hear developments in Einstein computing.

A typical seminar day commences around 9.30 with an introduction by a Screens representative on the day ahead. The day comprises many interesting demonstrations and talks by manufacturers of Einstein peripherals. Short breaks are taken during the day for coffee, luncheon and tea. One of the most interesting aspects of the seminars are the discussions between delegates where many experiences are re-lived and new friendships take place.

User groups who are interested in such seminars and demonstrations should contact

Ketan Bhatt Esq.
Einstein Sales Development Manager,
Screens Microcomputer Distribution,
Main Avenue, Moor Park, Northwood,
Middx.

Telephone: 09274 20664

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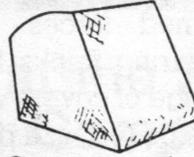
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BOOKS AND MANUALS

1. Understanding Dr. LOGO on the Einstein by Glentop Publishers £8.95 £44.95

2. Tatung - Full Einstein Technical Specification Hardware Manual £44.00 EH1



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OFFER 8 Einstein Hardware Manual £39.00 Save £5 Order No. EH1

OFFER 9 3" Blank Discs (normally £4.90 each) Box of 10 £44.00. Save £5.00 (order as 10)

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When the Allophones generated by the SPO256 are joined in the correct sequence it is possible to create almost any word used in the English language.

The Einstein Speech Synthesiser is controlled via the User Port of the Einstein and can be easily programmed in Xtal Basic using the OUT and WATT Commands as described on Pages 166 and 240-244 of the Basic Manual and Pages 132 - 135 of the Introduction Manual.

Demonstration programs are supplied on disc and a list of the Allophones available showing the Data required to produce one, their sound, duration and a sample word for each is included.

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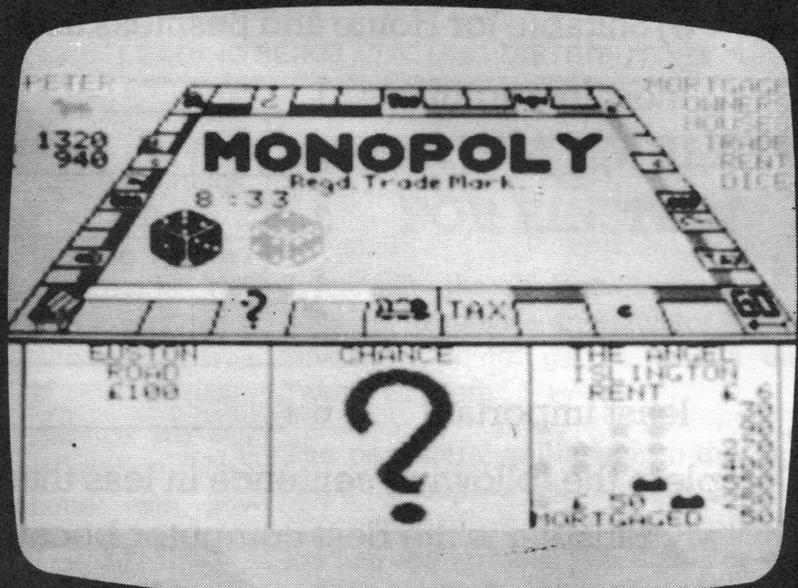
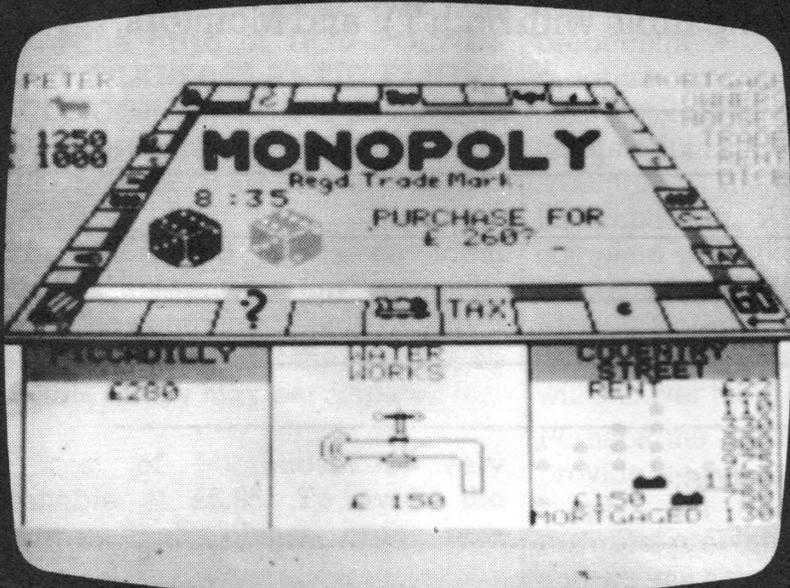
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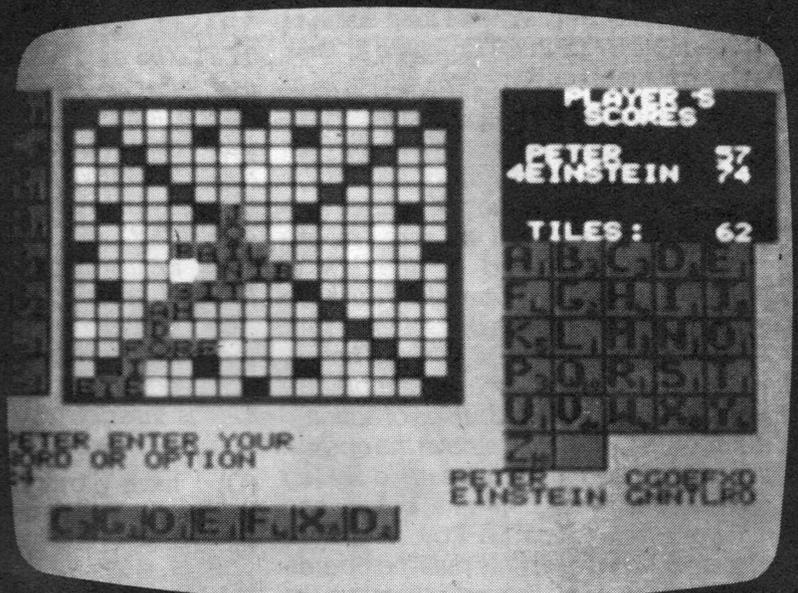
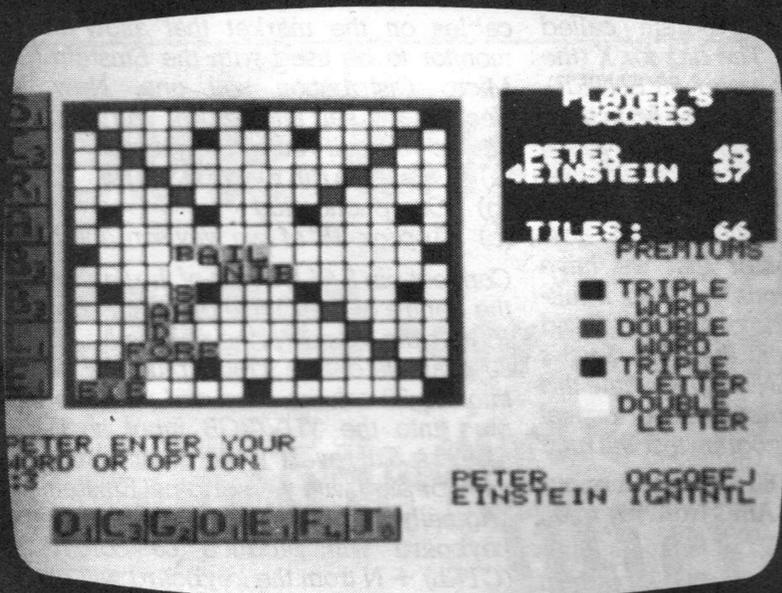
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EM

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1. Select six of the following 10 Einstein features in their order of importance.

- | | |
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| a) Built in Disk Drive. | f) All interfaces included as standard. |
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| c) Designed and built in Britain. | h) CP/M Compatible. |
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most important	1	_____
	2	_____
	3	_____
	4	_____
	5	_____
least important	6	_____

2. Complete the following sentence in less than 15 words:-

My Einstein is the best computer because

Please return your entries to:-
No later than 31st December 1985

Mr J. Willis at Tatung UK Limited
Stafford Park 10, Telford, Shropshire TF3 3AB

The entries will be judged by Tatung personnel and the completed sentence will be used as a tie-breaker if necessary. The decision will be final and the winner will be notified by 31st January, 1985 and the results issued in a future issue of Einstein User magazine.

PROBLEM PAGE ! by David Bell AIDPM, Software Projects Manager, TATUNG (UK) LTD

(Q) When I purchased my Einstein I was given a number of programs free. When I load some of these (for example W.D. PRO) I receive a "Disk No Sector" error message!

(A) The Einstein is a professional business computer and, as such, does not contain a resident operating system. This has the major advantage of keeping the RAM free for the program or system that you wish to use. As I am sure you are aware, software is protected by the law of copyright so, if a piece of software does not have the operating system on it, it is because the producer does not have the legal right to it. The solution for the purchaser is, however, simple. He can take one of the following courses of action.

i) Load the operating system, remove the operating system disk, load the program disk (eg W.D.PRO). Do not press control - break, and then run the program (eg W.D.PRO).

ii) Format a new blank disk, this puts the operating system onto the new disk, and then use the copy command to copy the files from the master disk to your newly formatted disk.

iii) Use the systems MOS to copy the operating system from your system master disk onto your program disk. This is accomplished as follows. Power up the computer and press control break with the system master disk in the drive. Type in MOS(ENTER) type in the following R 8000 99FF(ENTER) remove the system master disk and replace it with the program disk. Type in W 8000 99FF(ENTER).

(Q) Can I make my disks auto-load when the reset button or control-break keys are pressed.

(A) Yes. You use Einsteins MOS. As mentioned above, enter the command MOS(ENTER) after loading the operating system. Remove the system disk and insert the disk that you wish to auto-boot. Now enter the following:- R 8000 99FF(ENTER) M 8208(ENTER) You must now instruct the disk to auto-load and this is achieved by entering 05 at this location so enter 05(ENTER). The screen will now show the next memory location which must contain the hex

equivalent of the first letter of the program to be run. For example let's assume you want to load XBASIC and run a basic program called TEST.XBS on the same disk. The hex for X (the first letter of XBAS) is 58 so enter 58(ENTER). Now enter the remaining letters of XBAS in their hex equivalent. 42(ENTER) 41(ENTER) 53(ENTER). We now need a space (hex 20) and the hex for test. Enter 20(ENTER) 45(ENTER) 45(ENTER) 53(ENTER) 54(ENTER). We now have to instruct the computer that we have finished entering modifications so enter a full-stop .(ENTER) and instruct the computer to load these modifications back onto the disk. This is achieved with W8000 99FF(ENTER). Anytime this disk is inserted and the computer reset crystal basic will be loaded and the program test will run.

(Q) I have purchased the 80 column monochrome card and find that XBASIC from my master disk does not work!

(A) Correct. Tatung have released a disk with an 80 column basic and digital research's CP/M 80 v 2.2 for a retail price of £99.95. The basic is XBASIC from Xitan Ltd (not EBAS from Crystal Research) and contains such features as high mathematical precision, variable cursor character and key repeat speed.

(Q) I have a copy of spreadsheet and find it inconvenient to be restricted to printing only two columns at a time. What else can I buy?

(A) There are a number of spreadsheets available for the Einstein computer that will print up to the full width of the printer. The most economic is "The Cracker" from Einsoft. This has a retail price of £57.50 inc vat and should satisfy most needs. There is a 40 column version on one side of the disk and an 80 column version on the other. Obviously the 80 column version requires the 80 column monochrome card to be fitted to the Einstein.

(Q) I have upgraded to having an 80 column card fitted to my Einstein but do not wish to purchase an 80 column monochrome monitor. Can I use my existing TM01 colour monitor in 80 column mode?

(A) Yes, but there will be some loss of quality

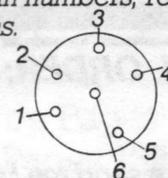
and the brightness and/or contrast may need to be adjusted. There are a number of connecting cables on the market that allow the colour monitor to be used with the Einstein (Screens Micro Distribution sell one, New Miracle Technology sell another). If you wish to make one up yourself you will require:-

- (a) One 6 pin din plug
- (b) One phono plug
- (c) Approx. 18" of two way screened lead

Connect pin 2 (Y & Sync) of the 6 pin din plug to the centre of the phono plug and connect pin 5 (OV) to the outside of the phono plug. To achieve 80 columns on the TM01, plug the phono plug into the 80 column card and plug the 6 pin din plug into the YUV/RGB input socket of the monitor. To revert to 40 columns replace the monitor plug with your original Einstein cable as originally supplied. (CTRL) + P from the keyboard will produce 80 column output. (CTRL) + N from the keyboard will produce 40 column output.

If you are unsure of the pin numbers, refer to the TM01 monitor instructions.

View from rear of socket



(Q) What new game software is being produced at the moment?

(A) Many titles have been produced, and many more are in the process of being produced at the moment. Elite seems to be in everyones mind and this will be available, as a firebird title, during January 1986. Many other titles are being released during December 1985; some of the titles are Dr. Franki, Jumpin' Jack, Fathoms Deep, Ranidae Hop, Screen Plus, Chess Adventure, Apollo 11 Graphics Tutorial, Mayhem, Maxima and many others. During next year there will be a very good music program (Wham the Music Box) possible hardware upgrades and a very exciting but secret project that will interest all game players.

MICROCOSM

We are pleased to announce that we now have the sole rights to the book 'Microcosm'. It is a beautifully illustrated puzzle book that will provide many hours of enjoyment for the whole family. The book also contains a short BASIC listing (suitable for all machines) that you must enter when all the clues have been discovered. If your assumptions are correct, the program will generate the telephone number of a room somewhere in England. If you are the first to dial this number, you will receive the prize of **1000 POUNDS PLUS A TRANSATLANTIC FLIGHT ON CONCORDE**. Also, if an Einstein owner wins the prize, we will add **1000 POUNDS WORTH OF HARDWARE!!**

Microcosm would make an ideal Christmas present for any computer owner. The computer is only required when you have solved the puzzles, so the whole family may participate.

The cost of Microcosm is very reasonable at £6.95. To avoid the Christmas rush, please order now from:

SYNTAXsoft,
Unit 109, Glenfield Park,
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Orders will be despatched by return of post.

THE BRAIN

In January an exciting new user club for Tatung Einstein owners will be commencing. Members to the club will receive a bi-monthly magazine called 'The Brain'. The contents will include hints and tips for all levels of programmer, program listings, listings, reviews of all types of software, letters column, articles on sound, graphics, assembly language, 3D graphics, interrupts etc. Also featured will be a complete breakdown of the Texas Instruments VDH chip that provides the Einstein's graphics. The Einstein has many hidden secrets, and over the months, we will uncover them all!

Perhaps the most useful service we will provide is a five day a week helpline. Quite simply, you may telephone with any technical problem, however large or small, and we will help.

The membership fee to the club is £16.00 per year. Please send applications for membership to:-

Glenfield Computer Consultants,
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Syntaxsoft the Nelson based software house is to release an emulator, to enable Sinclair Spectrum games to run on the Tatung Einstein.

The peripheral will attach to the Einstein "pipe" expansion bus and will accommodate a cassette interface for loading the games. The emulator will be supplied with a starter pack of spectrum games and cost under **£45 retail including V.A.T.**

Screens, the official Tatung Computer distributors will distribute the new emulator which will hopefully be available before Christmas '85.

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SEASONS GREETINGS TO YOU ALL From Dr. Mike Bayliss

Speeding Things Up The Disc Drives...

The Einstein is not particularly slow, nor quick, it is a reasonable yet fairly cheap business micro-computer. One thing that can do with improvement, however, is the speed at which the Einstein reads or writes to disc. During the development work for a certain well known spreadsheet (its a Cracker), the author felt that some improvements could be made to the speed with which Einstein read or wrote to disc. The arrangement of the sectors on any disc is determined by the FORMAT of the disc, and thus some discs might have the sectors numbered 1,2,3,4,5 etc, whilst others may have sectors numbered 1,4,7,0,3, etc. The way in which the PHYSICAL sectors on the disc are Actually numbered, is called Sector Interleaving, and by adjusting this Interleaving, some dramatic improvements (or otherwise) can be achieved in the speed at which any computer reads or writes to disc.

SPEED, the speed up utility marketed exclusively by Dr. Mike Bayliss at the Business Computer Centre in Telford, achieves the optimum speed up in Einstein's Dos, by re-arranging the sector interleaving on the disc. Tests conclusively prove that discs treated with SPEED do, in fact, Save and Load files at least TWICE as fast as under normal XTAL DOS. This improvement is very worthwhile, particularly to the Business user who is constantly wishing to send, or receive data from a disc drive.

Speeding Things Up The Printer

Now that the discs are going twice as fast, what else can we do to improve the lot of the Einstein owner? Well if He or She owns a TP100 printer, quite a bit.

When the Einstein is sending data to a printer, it can only do so at the rate at which the printer can receive it. The printing speed of the printer does, of course, have some effect, but by far the biggest improvements can be made by installing a BUFFER in your printer. This Buffer, simply acts as a reservoir for characters coming from the computer to the printer. Thus, the computer can send a whole load of stuff into the buffer, then forget about it and do what it knows best (compute). Meanwhile, the printer is quite happy and will carry on printing from the buffer as though it was getting stuff straight from the computer (you could even turn the computer off at this stage if you desired).

A cheap way of getting your printer upgraded, is to take a look at the offer being made by The Business Computer Centre, they have both the 2K and 4K upgrades available.

PLEASE SIR... MY DISC's gone funny.

When I was Software Manager, for Tatung, the number of calls which I personally dealt with concerning corrupt discs, was legion. A common problem is for the DOS tracks to become corrupt. OK

what does this mean in English!!

Quite simply, the DOS is the Disc Operating System, which is loaded into memory by Einstein's ROM chip, when you turn on. If the DOS tracks on the disc are damaged in any way (a power Glitch does it beautifully), then the disc will not boot. Being a simple soul, the Einstein will then assume that there is no disc in the drive, and act accordingly.

If this ever happens to you, here's what to do.

1. Remove the bad disc from the Drive.
2. Put a good disc into the drive and Boot up as usual.
3. When the Sign-On message has appeared, and the O: prompt comes up, type MOS (followed by ENTER)
4. Now type R E100 FAFF (ENTER), THIS (R)eads the DOS from the good disc into the Einsteins Memory (starting at E100 up to FAFF in HEX).
5. With a good image of DOS in the Memory, all we now need do is (W)rite it to our duff disc. Insert the damaged disc, making sure that it is WRITE ENABLED. Now.. type W E100 FAFF.
6. The disc light will come on and the DOS image will be written to disc starting at Track Zero Sector Zero, until all of the memory range is written to disc.

The MENDED disc should now work (at least it will boot).

This is just one of many little tricks which I picked up by playing with the Einstein, if any of you have a favourite little party piece, please write & let me know, I will do my best to publicise it in my newsletters. Dr. Mike Bayliss, Telford 501754.

SPACE TRAP

Following the success of TIME TRAP, the long-awaited sequel, SPACE TRAP, is now available from Solo Software.

Time Trap was hailed as "possibly the most exciting graphics adventure of all time" - but Space Trap is more thrilling still.

Continuing the theme created in Time Trap, the hero "Zed Zed" is once more searching for the hundreds of pieces of crystal scattered liberally around nine daunting planets which you travel between by way of the time warp. Again, you have nine life regenerations.

The sensational graphics of Time Trap are improved on still further in Space Trap with screens that scroll up, down, left, right and even diagonally.

The background moving graphics have to be seen to be believed...and Zed Zed must avoid them all to stay alive while collecting his prized crystals.

Both games can be controlled with the keyboard or a joystick.

If you thought that Time Trap was addictive, then you'll be totally hooked on Space Trap. We believe that even the most hardened computer buff will take many weeks, if not months, to complete all the tasks.

Both TIME TRAP and SPACE TRAP are available from Solo Software Ltd at Worcester and all good Einstein stockists - PRICE £12.95 each.

MAXIMA

For the "shoot em up" freaks, here is the ultimate program.

With the aliens coming in 16 waves of more and more complex patterns, the player is taxed to the limits to survive the encounter.

The erratic bombing runs of the later screens will make you want to dive for cover, particularly if your laser-base has overheated from the previous attack and you are unable to fire back, just stay out of the way and keep an eye on the temperature gauge. As soon as you are 'out of the red', you can continue.

Another great value, get-you-hooked program from Solo Software at only £9.95.

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Jenart is so confident of its covers' quality and reliability that it expects replacement will be unnecessary with normal use. Einstein covers can now be bought direct from the makers at the following low prices:

Einstein Monitor/Computer Cover £10.95+£1 p&p
Einstein Printer TP100 Cover £5.95+60p p&p

SPECIAL OFFER

Order both covers together at the special inclusive price of £17.50.

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Your mission, should you decide to accept it, is to rescue a young girl held prisoner in the notorious House of Doom. She is guarded by hardened thugs, vicious guard dogs and a sophisticated alarm system. All of these will have to be overcome to complete your task ...and beware of the lifts.

To make things even more awkward, some of the things you need to finish the game are scattered about in component form and have to be manufactured.

A really demanding adventure to keep you occupied for months.

The price of this 2-game disc from Solo Software is £14.95.

MYRDDIN SOFTWARE

A recent agreement was reached between Myrddin Software of Swindon, Wilts and Screens Distribution, whereby Screens will now be the exclusive distributors of both Einstein and Amstrad software produced by the software house.

Nigel Sinclair, Screens Development Director, commented, "This is a mutually rewarding agreement because it leaves Myrddin free to concentrate on producing top software on a regular basis while Screens can bring their worldwide marketing experience to bear on finished product".

Myrddin produced the excellent flight simulation for the Einstein in addition to writing "Stock Tycoon" for Screensoft, Screens software arm. Both titles are still selling well.

This new co-operation between the two companies should produce some exciting software for Einstein owners in the near future.

EINSTEIN STOP PRESS

SPECIAL interest area for **EINSTEIN USERS** can be found on 0268-778956 - 'Applecrackers' Bulletin Board.

First time callers will have to register with the Sysop, giving Name, Address & 'Phone No., before they can access the special area. Registration usually effected in 12 hours! Decide your ID & Password before you call. Currently, board is 300/300 but will very soon be also 1200/75 (auto-sensing), a scrolling display and normal c/rtn. are used. (CTRL-S & CTRL-E if using 'Viewdata').

THE TATUNG PHILOSOPHY

Tatung is a name derived from one of the main concepts of Confucian philosophy and is best translated as 'universal family'. The motif is a combination of Chinese characters meaning 'resolution' and provides the basis for the company's attitude towards its customers, share-holders, workforce and business generally. Its motto is 'honesty, integrity, industry and frugality'.

Tatung was the first Taiwanese company to go public and its shares were on offer in 1957 before Taiwan opened its Stock Exchange. Today, individual shareholders, numbering more than 60,000 hold 80 per cent of the total shares. All employees are shareholders and they account for some 30 per cent of these shares.



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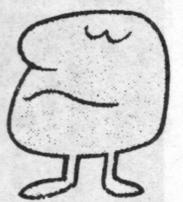
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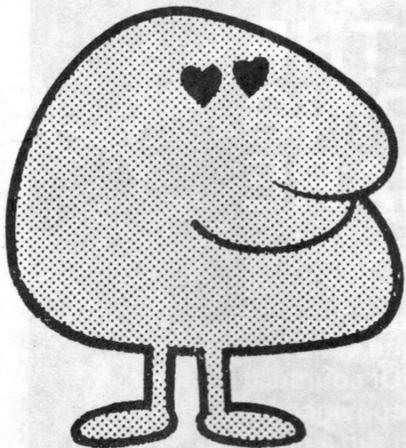
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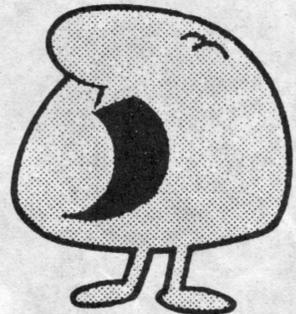
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