

(Bits & Pieces continued from page 2)

#### Apple IIc Parallel Printer Interface

We were purchasing a British-made unit, but it seems they've jacked it in, anyway, we've got a new source of (American) product. It allows you to connect any Epson-type parallel printer to the IIc serial port, (usually tons cheaper than ImageWriters!). Price #50.39+VAT.

#### Apple IIc Disk Drive Adaptor

Another money-saving device, this adaptor allows you to use cheaper 20-pin ribbon-type drives as a IIc external drive. Price #17.35+VAT.

#### Apple IIe Disk Drive Adaptor

Going the other way, this adaptor allows you to use newer D-19 drives with the old 20-pin disk controller card. Price #16.52+VAT.

#### Mouse Pocket

Although not cheap, this sensible bit of kit clips to the side of your monitor to stop the little crittur getting in your way or dirty when you're not mousing around. Price #8.65+VAT.

#### IIGS & MAC+ Printer Sharer

We've all seen the D-25 & Centronics data switches, well this new item is a 4-way unit which will allow up to 4 IIGSs &/or Macs using mini 8-pin DIN connectors to share devices such as ImageWriter IIs. Price #41.74+VAT.

#### Low-cost 3.5" disk storage boxes

Yes, here it is, the tip of the month! If you don't want to spend ten pounds on a purpose-designed 3.5" disk box, all you've got to do is buy a boxed bottle of Louise Pommery Cuvee Speciale champagne. Throw away the champagne, and you'll find that the canny? French designer must have had incredible foresight when he designed the sturdy two-piece box. (joke!...)

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### MGA MicroSystems

Pear Tree, Appledore  
Kent TN26 2AR  
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This newsletter has been created using Publish-It! on an Apple II computer. Our desk top publishing skills are but one week old, so please forgive us if our first publication is lacking in style. We are all very used to seeing the professional Macintosh-produced publications, and hope one day to have similar tools on the II. In the meantime, Publish-It! is state-of-the-art Apple II DTP! ENJOY!

*I was a 7st. weakling  
until I bought my first*



*MGA power product!!!*

# update //

Volume 4, No.1

Pear Tree Edition

March 1988

Welcome to all of our new users!!

## Introduction by Jon Curr

Well, here it is, the new look "update //" for 1988! At last we've got some desk top publishing software for the Apple II, (this was created and printed with "Publish-It!") Many new products have been introduced since our last update in Nov./Dec last year, far too many indeed to even hint at in our small publication. Our new issue 1988 catalogues show many of the releases, but our constantly changing "Apple Pak" is the place to find the really new info.

Perhaps the most significant, (and talked about), product of 1988 is "PC Transporter" from Applied Engineering. This is a card/drive combo which allows all Apple IIs (with slots), to actually run IBM-PC software! Although fairly expensive, the Transporter will be the answer to many organisations' prayers. While on the subject of PC/Apple, we also have a card that goes in a PC which will read & write Apple II disks, (MatchPoint/PC), as well as preliminary info on an all-software 65c02 //e emulator for the PC, (II in a PC)!

We have effectively completed our move to new premises, although it is still hard to find some stuff! We know that the answering of enquiries has slowed down considerably since October/November, and we apologise for that. The volume of enquiries for Apple II products in the last six months has been staggering, why I don't know, but I do know that there are thousands of Apple II users out there who need products and/or help.

Some of you may have seen the beginnings of our "Apple II Crusade" in "Apple 2000" magazine Dec 87, well, we're continuing that, and to that end we're supporting the User Group in several ways. The first method is supporting a new membership drive, (see Apple 2000 ad in this issue, which we're happy to print free of charge), and secondly, to provide the club with special offer products for sale through the club's "Shop 2000". These products are attractively priced, and generate some income for the club to help cover rocketing admin costs. The third, and perhaps most useful thing is our provision

of products for review by club members. We will provide virtually any Apple II product for review, and also sell the product to the reviewer at 50% discount should he/she wish to keep it! In this way not only do active reviewing members get great deals on products they're interested in, but all the other club members benefit by seeing the review published in the club magazine "Apple 2000". If you are interested in this scheme, you must be a club member, and details are inside this issue should you wish to join. MGA are not connected to Apple 2000 in any way other than our common interest in supporting Apple II users throughout the world. Personally, I am a member, and happily pay my subscription every year, for although I have great access to Apple II information, I still learn new things every issue. Considering the subs is only #25.00 p.a., I think it is excellent value. Certainly, every newcomer to the Apple II world should take out a subscription.

It is vital that we work together on this, Apple Computer (UK) Ltd. are not really set up any longer to support the Apple II, (indeed, many of you will have been referred to MGA by Apple-UK), so it is up to us to keep the II going in the UK by ourselves. If no support for the users' groups is maintained, then it won't be very long before products for the II will just not be available in this country.

Another way to back the Apple II Crusade is to subscribe to "Apple User" magazine, - the last independantly published monthly Apple-specific magazine that caters for the Apple II in this country. Subscriptions cost only #18.00 p.a., (details available on request, or see their ad in the next issue of "update //").

This first issue of update // in 1988, sees the start of a completely new format. Previous issues have been limited to reproductions of manufacturers' advertisements for products, together with a small amount of in-house produced pages created with the limited publication tools then available. With new software such as "Personal Newsletter" and "Publish-It!", we are now able to produce a more newsy publication, and we all hope you will find it an improvement.

update // is published by MGA MicroSystems

(Printed by Rother Valley Press, who we hope other local businesses will support as well.)

MGA is a private partnership, Partners: Jenny Green & Jon Curr.

Telephone: (0233) 83571

Location: Pear Tree, Appledore, Kent TN26 2AR



# MORE SPEED!—FOUR TIMES MORE! NOW A 4 MEGAHERTZ APPLE II! 400% FASTER!!!

ZIP Technology announces a technological breakthrough in Apple II speed enhancement!

## ZIPCHIP™



### The ZIP CHIP™:

- Is transparent to all software.
- Is compatible with all hardware.
- Addresses 1.9 megabytes of memory.
- Has 16 variable speeds.
- Will never wear out or break down.

- Costs much less than any speed-up board.
- Carries a Lifetime Warranty.
- Speeds up all types of memory, Main, ROM, & AUX.
- Requires no slot.
- Requires very low power.
- Has no switches.
- Operates at 4 megahertz.
- Uses keyboard controlled speed changes.
- Is faster than any speed-up board.

**HERE'S HOW IT WORKS:** Zip Chip contains a standard microprocessor, a unique gate array and a special RAM cache, which allows data and instructions to flow through at an accelerated rate without causing a jam-up. Since the normal speed of the 65C02 is only 1 megahertz, the ZIP Technology engineers replaced the normal clock with a 16 megahertz crystal and partitioned it such that the enhanced Zip Chip™ will operate at 4 megahertz, a four times increase in speed. AppleWorks just flies. Many applications show a better than 360% increase in throughput.

We all know about speed-up cards, many of us probably own one of them. They claim to speed up things and under many circumstances do, but they require a slot, eat power and won't address any expanded memory. They are cumbersome, break down easily and are incompatible with a lot of software and hardware. Yet we buy them, because our favorite machine only runs at a very slow 1 megahertz, and we desperately need more speed.

A new microprocessor chip running much faster without affecting any of the other operating characteristics of the Apple II would solve the problem.

—WELL NOW IT'S HERE!!

The Zip Chip™ is the result of a couple hundred thousand dollars and two years of engineering effort to produce a replacement for the Apple II CPU; one that will provide the increase in speed needed to take the Apple II to the realm of an IBM PC/AT, yet allow total compatibility and flexibility in software and hardware.

The Zip Chip™ requires no special tools or knowledge to install. The Zip Chip™ requires no special boot-up. Just turning on the Apple II, II+, IIe, IIc, or any Apple compatible, now creates a 4 megahertz environment, 400% faster.

APPLE II GS VERSION COMING SOON!

**Zip Chip's Price?** (£153.91 exclusive)  
**only £179 including postage/VAT in UK**

### LIFETIME WARRANTY

The Zip Chip™ carries a Lifetime Warranty! If for any reason it fails to function, just return it for a FREE replacement—forever, anytime, for whatever reason.

### MGA MICROSYSTEMS

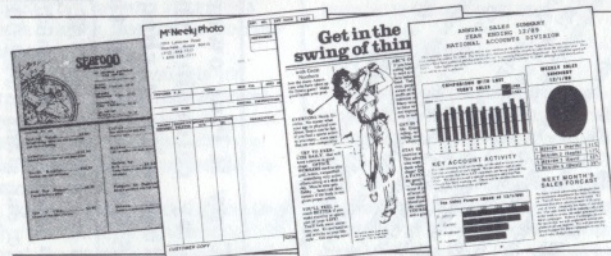
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TLX: 8950511 ONEONE G (BOX 13311001)  
COMPUTER SOFTWARE, HARDWARE & ACCESSORIES

Apple IIc, IIe, IIes Users:

# Publish-It! in less than an hour.



## Introducing PUBLISH IT! A full-featured desktop publishing powerhouse with word processing, layout, and graphics.

Even if you have no design skills or publishing experience, you can get results in less than an hour with PUBLISH IT! Use our Quick-Start Mini-Manual and go to press. It's that simple.

Your computer display shows you exactly how your finished documents will look. Use the program's built-in layout tools to reposition and resize elements on the page. Once it's perfect, just press a key and print out on your dot matrix or laser printer.\*

For all its state-of-the-art ability, PUBLISH IT! is incredibly easy to learn—refreshingly so. PUBLISH IT! combines the familiar Macintosh User Interface, our Quick-Start Mini-Manual, a full complement of Help Screens, and the practical WYSIWYG (What-You-See-Is-What-You-Get) display—all designed to get you up and running in less than one hour!

### SPECIAL FEATURES:

- **Macintosh User Interface:** It's familiar and easy. Pull-down menus, icons, scroll bars and dialogue boxes help you learn and use the program quickly. Your display screen shows you exactly what your final product will look like when you print—What-You-See-Is-What-You-Get.
- **Flexible Page Layout:** With your mouse or joystick, and keyboard, you can

overlap, reposition, resize, and reshape the text, columns, graphics. Change your layout or experiment—almost effortlessly!

- **Built-in Fonts:** Choose from more than 1280 possible type-style combinations! Opt for bold, italic, underlined, outlined, shadow, and superscript or subscript characters. Select your effect with ease! Type sizes range from 9 point to 72 point.

- **Premium Quality Printouts:** PUBLISH IT! uses a special high density (72 x 120) printout format that gives you superior quality printouts on your dot matrix printer.

- **Built-in Word Processor:** All the features necessary for everyday word processing, plus most of the sophisticated ones found only in more expensive programs.

- **Text Importing:** Load documents from APPLEWORKS, BANK STREET WRITER\*\* or any other word processor in standard ASCII format directly into PUBLISH IT!

- **Built-in Graphic Toolbox:** Draw lines, boxes, circles, rules and more. Plus, choose from a wide variety of built-in line and fill patterns, or create your own.

- **Graphics Importing:** Directly import graphics and illustrations from any standard Apple\*\* double-high-resolution drawing program—including

Broderbund's DAZZLE DRAW\*\*. Then crop and size them to fit.

- **Special Typesetting Functions:** Kerning, leading, and more! Add professional finishing touches that make your message stand out.

- **Automatic Text Flow and Word Wrap:** PUBLISH IT! automatically flows text from column to column on the same page, or carries it over to subsequent pages.

- **Multiple Size Page Views:** View, edit and layout pages at actual, double or half-size. Or, reduce them so the entire page fills the screen.

- **Sample Document Layouts:** Includes sample formats for newsletters, business reports, brochures, ads, and more.

- **Plus, you get worksheets, special time-saving features, and much more!**



Start publishing in less than an hour—at a price you can afford! PUBLISH IT! retails for just **£99.95**.

Find it at your local dealer or order direct

(price includes p&p/VAT)

### MGA MICROSYSTEMS

PEAR TREE  
APPLEDORE, KENT  
TN26 2AR ENGLAND  
TEL: 0233-83-571



\*Laser Printer requires Timeworks Accessory Pak. Details inside package. \*\*Registered trademarks of their respective companies.

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Requires IIc, IIeS, or IIc with 64K extended 80-column card and enhanced ROM chip set incl. new 65c02 processor chip.



£99 plus VAT

APP-STAT™

Apple II w/500-ohm disk, 5.25" drive

The complete statistical package for the Apple II  
A powerful tool for data analysis and forecasting

APP-STAT was designed to make basic and advanced statistical analyses on Apple II computers (II+, IIe, IIc) available to professionals, researchers, and students.

APP-STAT is menu driven and very easy to use. All information that is needed to perform an analysis will be requested by the computer with prompts in plain English. The user does not have to learn any commands or computer language. APP-STAT contains all basic statistics and many very advanced statistical methods that are usually not available in programs for microcomputers.

**BASIC STATISTICS:** Descriptive Statistics (Mean, Standard Deviation, Standard Error, Median, Range, Kurtosis, Skewness, Minimum/Maximum, etc.), t-tests for independent and correlated samples, Cross-tabulation (with overall Chi-square Statistic, observed cell frequencies, relative cell frequencies), Correlation, Comparison of distributions, and more; all reported statistics are accompanied by the appropriate p-level (level of significance).

Most analyses may be performed on lists of variables. For example, with just a few keystrokes you may request a series of 100 correlations between two lists of 10 variables. The user may also flexibly select any subset of cases for the analyses and only select cases that satisfy certain conditions (e.g., only if a case has a value of '1' for a specified variable will it be included in subsequent analyses; up to 10 such "filter variables" may be specified). All tests allow the user to specify missing data values.

Because this program has many different options for selecting subsets of cases for the analyses, APP-STAT offers an enormous flexibility for exploring your data.

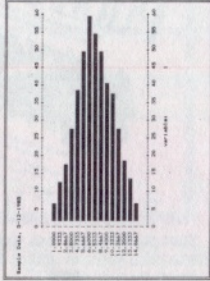
**NON-PARAMETRIC STATISTICS:** Spearman Rank Order Correlation, Kruskal-Wallis ANOVA on ranks, Wald-Wolfowitz Runs Test, Mann-Whitney U test, Wilcoxon matched pairs test (all statistics based on ranks can handle missing data values and tied ranks), Chi-Square, Phi-Square, V-square; all reported statistics are accompanied by the appropriate p-level (level of significance).

**ADVANCED STATISTICAL ANALYSES:**

**GENERAL MULTIPLE REGRESSION:** Up to 15 predictors in one regression equation, formatted correlation matrix, unlimited number of cases, R, R-SQUARE, F, standardized and unstandardized regression weights, (Beta and B, and t-values for weights), standard Analysis of Variance table with SS-Regression, SS-Residual, and SS-Total; all statistics are accompanied by the appropriate p-level (significance); the user has the option to save predicted and residual scores (both standardized and non-standardized) for subsequent analyses (residual analyses, residual plots, etc.).

**MULTIFACTOR ANALYSIS OF VARIANCE/COVARIANCE:** Up to five factors (including a covariate), repeated measures, simple effects, contrasts, unlimited number of cases, unbalanced designs, adjusted means, p-levels for all F's and t's. The Analysis of Variance/Covariance procedure uses a general regression approach to Analysis of Variance. This approach increases the flexibility of analyses, and it is used by most statistical packages for mainframe computers.

**GRAPHICS:** In addition to these statistical analyses, the user may produce (and print) Bargraphs and Scatterplots of data. These procedures were developed in the most general way and the graphics may be produced on any dot matrix or letter quality printer.



## 3.5 BIT COPIER FOR APPLE II APPLE IIGS OWNERS REJOICE!

**Copy II Plus Version 8 now available!**

- Full 3.5" floppy program, includes bit copy, sector copy, block editor, HI-RDS disk scan and print files for the latest files software.
- Extra memory available for copying RAMdisks, ProDOS, RAMdisk, THE Memory Manager is used by both the utilities and 3.5" floppy.
- Our latest P4RAM files for both 3.5" and 5.25" software.
- Screen 3.5" bitcopy requires 128K of memory, will not run on Apple II Plus.

**- still only £39.95**

Existing Copy II Plus owners may upgrade to version 8 by returning their original master disk together with a cheque for £14.99, both 5.25 & 3.5" disks are in the upgrade.

These prices include postage/VAT (except items under £20.00 which are subject to our standard £2.00 handling charge).

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## The industry's best backup programs for copy-protected disks.

If you've ever worried about what you'd do if a valuable copy-protected program diskette was accidentally ruined when you were up against a tough deadline, these are the programs for you.

Our Copy II programs help you protect your valuable software investment. They allow you to back up most copy-protected disks—including popular business, entertainment and educational software.

For a very reasonable price, they give you the kind of peace of mind that's worth thousands when disk mishaps occur.

All our Copy II programs are easy to use. Our state-of-the-art technology has made it simple to back up disks protected by even the most sophisticated protection schemes. Making backups will take a minimum amount of time and effort.

You'll also appreciate the fact that Copy II isn't copy-protected. You can back it up immediately.

Note: Copy II is sold for archival purposes only.

**£39.95 (ALL VERSIONS)**

Copy II Plus® is a consistent winner of A+ Magazine's Readers' Choice Award. In addition to backing up many copy-protected programs, it includes valuable disk utilities you'll use again and again.



"For about the same price as many micro-computer game disks, £39.95, you can have a powerful utility manipulator and a sophisticated bit copier. Copy II Plus may well be one of the best software buys available today."  
—in Cider

The disk backup part of the program is almost totally automatic. Copy II Plus includes built-in parameters for hundreds of popular programs. You simply type in the name of the program you wish to backup and Copy II does the rest.

If you want, you can even create, edit and save your own parameter files. Copy II Plus's 170-page manual has sections for everyone—from the beginner to the advanced user.

### Copy II Plus utilities.

The widely acclaimed utilities program in Copy II Plus is worth the price of the software alone. It supports both DOS 3.3 (5 1/4" disks) and ProDOS (5 1/4" and 3.5" disks, hard disks, RAMdisks and any ProDOS device). So no matter what kind of drives you're using with your Apple II or Laser 128, you can use Copy II Plus's utilities. These popular utilities allow you to:

- Convert DOS 3.3 files to ProDOS files and vice versa.
- Delete and undelete files.
- Make quick copies without extensive disk-swapping—copying takes just two "passes" on a 128K computer.
- Map disk usage.
- Alphabetize the disk directory.
- Change boot program.
- Verify disk copies for accuracy.
- Check and adjust the speed of your drives.
- Directly view and change data in any sector with the Sector Editor.
- View directories and subdirectories as a graphic tree display—you just point to the subdirectory you want and go.

### Requirements:

Apple II, IIe, IIc, II Plus or IIGs  
Laser 128 or 128 EX  
64K  
At least one floppy disk drive

Copy II® for the Macintosh is a winner of the Mac User Magazine Editors' Choice Award—both for its copying abilities and its utilities.



"I tried it out on almost every piece of copy-protected software I had, and all the copies seemed to work just fine."

—Byte

The program comes complete with Central Point Software's renowned utilities program MacTools® and Copy II Hard Disk. Quick Clicks Magazine calls MacTools "invaluable when attempting to salvage lost or damaged files."

"It may be the copying function that gets you interested in Copy II...but MacTools itself is worth the cost of the software."

—CompuServe

With Copy II, you'll be able to:

- Run many popular programs from your hard disk.
- Undelete deleted or lost files from both 3.5" diskettes and hard disks. (Unlike other undelete programs, Copy II Mac can almost always recover along with the file data, its name, type and creator information.) This feature is as easy to use as double-clicking on the file name.
- Make files visible/invisible.
- Format and verify disks.
- Rename files and disks.
- View and edit any block on a disk.
- Copy or delete files and disks.

### Requirements:

Apple Macintosh 512K, 512e, SE, II or Macintosh Plus  
At least one disk drive

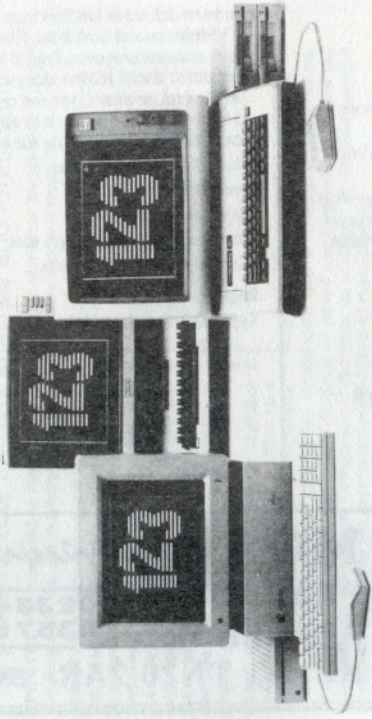
These prices include postage/VAT only £39.95 each also available for IBM-PC, Atari-ST, and Commodore-64/128. E.&O.E.

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apple II series

mac series





# Now Apple speaks IBM. Three times faster than IBM.

Introducing **PC Transporter™**. The Apple® II expansion board that lets you run MS-DOS programs.

Now your Apple II can run over 10,000 programs you could not use before. It lets you use the software of MS-DOS, PLUS® Even Flight Simulator® With PC Transporter, MS-DOS programs run on your Apple II like they do on IBM® PCs or compatibles. With one important difference. PC Transporter runs most of those programs *three times faster* than an IBM PCXTy. Plus, to speed through number-crunching tasks, you can use our optional 80387 math coprocessor. It's the only math coprocessor on the PC Transporter. **Less expensive than an IBM clone.** Sure, a stripped-down IBM



clone costs about the same as the PC Transporter, but the price applied in this case is the real one. It's the price you pay for the clone cost about three times what our American-made card costs.

You don't have to buy new hardware to use PC Transporter. Works with the hardware you already own.

With PC Transporter, MS-DOS users see your Apple hardware as IBM hardware. You can use the same hardware you have with IBM software. Your Apple hardware works just like IBM hardware. Including your drives, monitors, printers, printer cards, clock cards and serial clocks.

You can use your Ite® or Iigs™ keyboard with IBM software. Or use our optional IBM-style keyboard (required for the II Plus). Or you can use your Apple mouse. Or an IBM compatible serial mouse.

**Plenty of power.** PC Transporter draws you as much as 640K of user RAM and 128K of system RAM in the IBM mode.

PC Transporter also is an Apple expansion card, adding up to 768K of extra RAM in the Apple mode. The Apple expansion alone is a £300 value.

**Easy to install.** You can install PC Transporter in a matter of minutes. All you've never added an expansion board. You don't need special tools. Simply plug it into your Apple expansion slot (1 through 7 except 3), connect a few cables and a disk drive, and go!

**Versatile data storage.** PC Transporter reads MS-DOS and translates it into Apple native ProDOS. You can store IBM programs and data on your ProDOS disks. You can build the Apple 3.5 Drive, Apple Unidisk™ 3.5, Apple 5.25™ drive, SCSI or ProDOS compatible hard drives. (You can use the Apple Unidisk 3.5 with its own controller card for storing programs and data but not for directly booting an IBM formatted disk.)

You can even use your 360K PC compatible drive for ProDOS. **Make your Apple speak IBM.**

PC Transporter memory choices:

RAM mode:	RAM mode:	Price:
Apple mode:	IBM mode:	£489.00
384K	256K	529.00
512K	384K	669.00
640K	512K	699.00

Note: IBM mode requires 128K for system memory.

Ite's Installation Kit	49.00
Ite/II Plus Installation Kit	39.00
PC Transporter Accessories	39.00
5.25" IBM Format 360K Drive Systems	269.00
Single-Disk System	399.00
Half-Height Drive	135.00
IBM-style Keyboard (required for Apple II Plus. Requires IBM Keyboard Cable)	139.00
IBM Keyboard Cable	34.00
IBM-style Mouse	499.00
Analog RGB Cable (for use with Sony monitor)	39.00
Digital RGB Cable (monitor)	39.00
Digital RGB Adapter	24.00
ColorSwitch (included with Ite installation kit)	44.00
IBM PCXTy	449.00
Memory Expansion Chip Set	229.00
Co-processor 8087-2 Math Coprocessor	69.00
High Duty Power Supply (Ite and II Plus only)	

prices incl.p.p./VAT



PC Transporter taps into the world's largest software library. Now your Apple can run the software of over 10,000 IBM titles. All at once. And it opens a new world of communications programs, games and business tools.

**A universal disk drive controller.** PC Transporter supports 3.5" and 5.25" MS-DOS and ProDOS formatted diskettes and disks in both modes. You can use your Apple ProDOS and IBM MS-DOS.

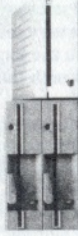
You'll need our versatile 5.25" 360K drive system to run IBM applications from 5.25" floppy disks. Use your Apple 5.25" drive for Apple 5.25" disks.

An Apple Disk 3.5 Drive will support the new 3.5" disks whether they're IBM MS-DOS formatted or Apple ProDOS formatted. PC Transporter uses disk controllers for Ite's, Ite, and II Plus users.

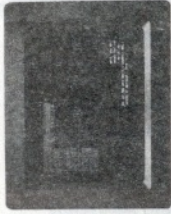
PC Transporter supports up to 5 drives in a number of combinations.

For example, you can connect a 5.25 Applied Engineering 360K dual-drive system directly to the card. Then plug two daisy-chained Apple 3.5" drives into the PC Transporter. Or you can use a dual-drive system. For a fifth drive, use a ProDOS file as an IBM hard disk.

PC Transporter can also be used with 5.25" MS-DOS and ProDOS formatted diskettes.



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PC Transporter provides better IBM graphics than IBM. Analog is richer than digital. So with an amazing Rich monitor PC can appear to IBM's digital display — even while running IBM software. Apple computer monitor to IBM text or graphics mode.

storage and a 14.3K Apple 5.25" drive for MS-DOS storage. **Created by Apple's original designers.**

The brains behind PC Transporter were also behind your Apple II.

The PC Transporter design team included the original architect for the creation of the Apple Ite and Ite. The co-designer of the Apple II disk controller. And the first full-time Apple programmer and author of the ProDOS operating system.

So you know the PC Transporter and your Apple were made for each other.

**Support and service from the leader in Apple and IBM software.** Apple sells more peripheral boards than any one else — including Apple Computer. So you know we'll be around after the sale.

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COMPUTER SOFTWARE, HARDWARE & ACCESSORIES



**AE Applied Engineering experts.**  
The Apple enhancement experts.

A Division of AE Research Corporation.

**SARGON III**  
Level of Play: All Levels  
Appropriate for Home Use



Advanced level of Sargon II. The most advanced chess game/tutorial ever created for a microcomputer. Features 9 levels from beginner to master. Sargon III can even think on its opponent's time, make suggestions for moves, save a game in progress and more. Will let you play 107 of the most famous chess games of all time. Includes 3 1/2" and 5 1/4" disks for IBM.

■ Apple/IBM (HD71AP) ..... £19.95

**50 ANNOTATED CHESS CLASSICS**  
Level of Play: All Levels  
Appropriate for Home Use



Studying the games of the great chess Masters, fully annotated on-screen, is an easy way to grasp the action and the subtleties of chess. American Open Champion, Paul Whitehead, takes you on a delightful romp through eight ages of chess: from 19th Century Masters to the present era, and filly of the most smashing, crashing, bone-crushing games of chess ever played.

■ Apple (ENL05AP) ..... £19.95

**SPY'S ADVENTURE IN EUROPE**  
Level of Play: All Levels  
Appropriate for Home Use



Travel the European continent from Iceland to Turkey, Norway to France, Portugal to Spain, and search for important information in this exciting spy adventure game.

■ Apple (PS10AP) ..... £17.95

**SKYFOX**  
Level of Play: All Levels  
Appropriate for Home Use



A flight simulation and strategy game where you can save your colony from the invaders. Create an infinite number of scenarios. The powerful base computer is your critical resource providing communications and monitoring network, a tactical display map and control droids which can be dispatched to repair damage, prove terrain or fight. Requires joystick.

■ Apple (EA36AP) ..... £14.95

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Level of Play: All Levels  
Appropriate for Home Use



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■ Apple (COS01AP) ..... £29.95

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Level of Play: Beginners  
For Home and School Use



The Wizard of Oz is an exciting interactive text and graphic adventure game. In it, you assume the role of Dorothy in search of great and terrible Oz. During your travels, you will meet some of the most endearing characters ever created—the Scarecrow, the Tin Woodsman, and the Cowardly Lion, among others.

■ Apple (SS224AP) ..... £14.95

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Level of Play: All Levels  
Appropriate for Home Use



You start a Ghostbuster franchise, purchase ghost-catching equipment, map out ghost haunts and take off on an exciting and humorous adventure to capture ghosts. reach the temple of Zuul and save your city! Unique voice synthesis allows the game to actually "talk" to players. Requires joystick.

■ Apple (ACT08AP) ..... £14.95

**ULTIMA IV**  
Level of Play: Intermediate  
Appropriate for Home Use



Sixteen times larger than Ultima III, this program takes you to Britannia, Kingdom of Lord British. Journey through terrain of infinite proportions, conversing with characters on hundreds of topics. Unravel the mysteries of a superior magic system. At each turn beware of demons, dragons and long-dead wizards haunting the most tranquil of places. Shrewd use of terrain can lead to victory against seemingly impossible odds.

■ Apple (BS164AP) ..... £26.99

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Appropriate for Home Use



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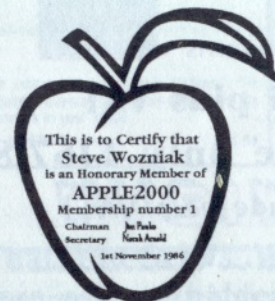
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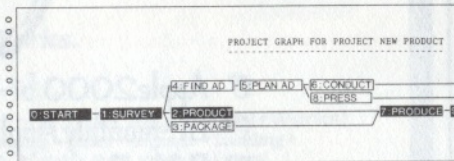
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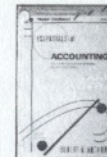
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Grade Level: 9th and Up  
For Home and School Use



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Level of Play: Advanced  
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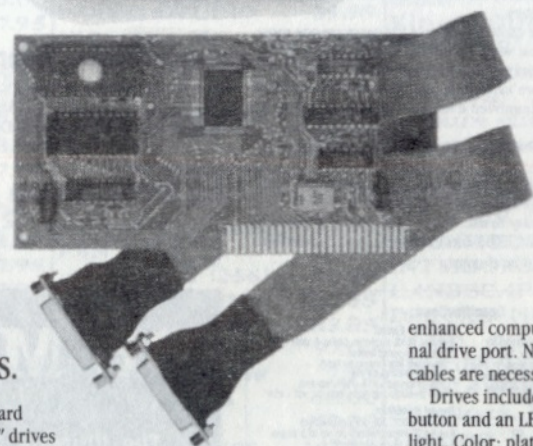
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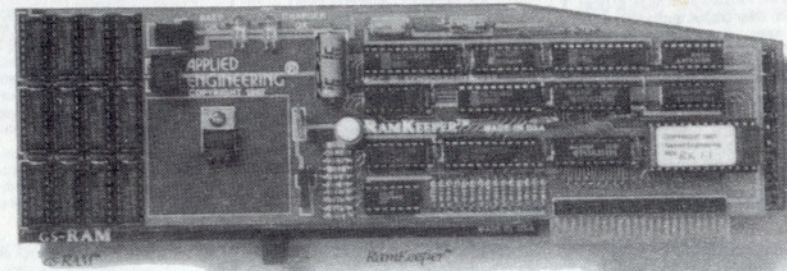
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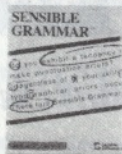
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■ Apple 128 (SEN06AP)..... £99.95

## PERSONAL FINANCE (INVESTMENT MGR.)



This program enables you to efficiently organize, analyze, and manage your individual investment portfolios. Includes a fully illustrated manual, designed for the beginning and advanced investor as well as the novice or experienced computer user. Advanced window capability allows you to view data on any transaction as the need occurs, without leaving the section you're currently working on.

■ Apple (TW356AP)..... £149.95

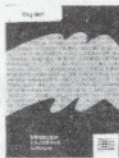
## SEXUALLY TRANSMITTED DISEASES



This two-disk program gives students the facts on sexually transmitted diseases, including AIDS. Students are asked to answer questions on the material presented. A test is included on each disk for pre- or post-testing.

■ Apple (HRM31AP)..... £89.00

## DRUG ALERT



This program teaches positive values with hard facts about drugs, alcohol, smoking and other addictions. This is a story of a youngster who responds to a friend involved in drugs and a drug handbook which can be printed out (names, symptoms, local Hot Line For Help, etc.). There is an arcade-like game that simulates "drinking under the influence..." and allows students to react to it. The program is meant to be a window on awareness to safeguard a child's future.

■ Apple (LW134AP)..... £39.95

## STRIKE FLEET

Create your own custom fleet to head off Soviet Krivak frigates and Alpha subs in the North Sea; defend the USS Stark against Iraqi plane and Iranian gunboats; and protect your convoy of destroyers, tankers, and choppers through waves of Argentinian air attacks in the Falklands! This very detailed naval battle simulation includes a variety of weapon and defense systems to choose from, and features 3-D graphics and excellent special effects.

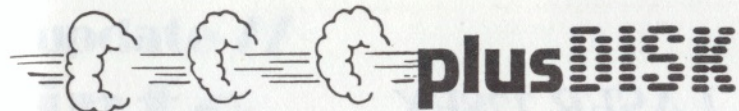
■ Apple (EA61AP)..... £35.00

## WEATHER OR NOT



Introduces students to the study of meteorology and how weather affects everyday living. Students learn the basic concepts, terminology and how to use barometers, thermometers and hydrometers and how to predict the weather in the process! After completing the instruction portion, and subsequently mastering the four skill areas (Air Pressure, Temperature, Water Vapor and Air Masses), they move on to the second disk to the "Innoko River Race." The race, from Whitehorse, Yukon, to Koyuk, Alaska, challenges students to compete for a \$100,000 purse while making critical decisions about weather conditions, supplies and their dog team. Includes a teacher's guide, a black-line master, student workbook and one set of floppy disks.

■ Apple (RM04AP)..... £90.00



## THE WORLD'S FASTEST DISK DRIVE

plusDISK is a MAJOR breakthrough in storage technology, combining the lightning performance of a RAMDisk with the convenience of a hard disk! No other storage device can match the sheer speed of plusDISK (over 20,000 times faster than a hard disk). It has no moving parts, makes no noise and plugs straight into any standard slot in a II+, IIe or IIGS.

### CHECK OUT THE PERFORMANCE:

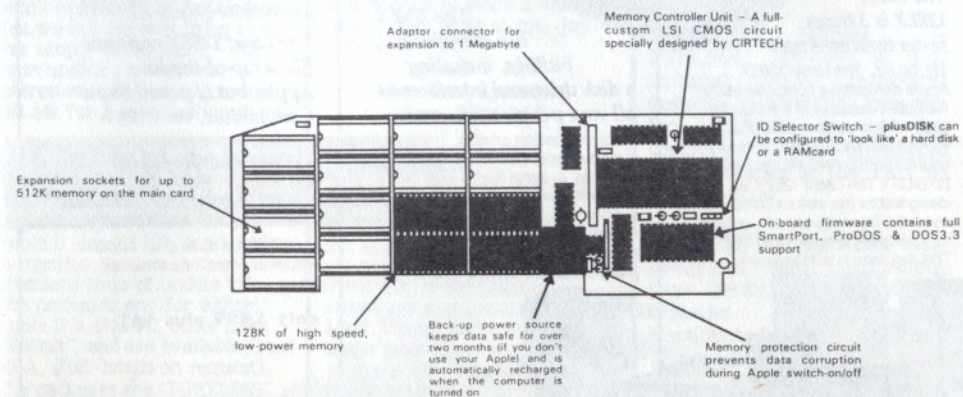
(times in mSecs)	Disk//	3.5 Disk	SCSI HardDisk	plusDISK
Maximum access time	1130	445	320	0.001
Average access time	490	270	90	0.001
Maximum data transfer rate (Kbytes/second)	62.5	31.25	530	1023

### SOME PRACTICAL EXAMPLES:

(times in Secs)	Disk//	3.5 Disk	SCSI HardDisk	plusDISK
Switch-on to AppleWorks	12.9	9.2	12.3	1.0
Load 147K AppleWorks File	73.0	55.0	31.6	24.8
Save 147K Appleworks File	79.0	58.0	26.5	17.2
Switch-on to MouseDesk	29.3	28.0	18.5	3.6
115K File Copy	111.0	93.0	32.7	11.0

(tested on IIe using 192K plusDisk)

plusDISK comes fitted with 128K of superfast, low-power permanent storage memory and is easily expandable to 512K on the base card, and up to 1 Megabyte with an add-on Adaptor. It is 100% compatible with all standard Apple operating systems and programs (ProDOS, ProDOS16, Pascal, CP/M, DOS3.3, AppleWorks, etc.) and can even be used by AppleWorks for desktop expansion!



You can start up any standard Apple program in a fraction of the normal time and your data files can be stored on plusDISK just like any other disk, but they are instantly accessible as soon as you turn your Apple on!

plusDISK is supplied with partitioning software which lets you store ProDOS, Pascal 1.3, DOS 3.3 and CP/M programs on your expanded plusDISK - all at the same time!

And if you're thinking a device with this amazing performance must cost a fortune - you're wrong! plusDISK costs less than an ordinary disk drive!

## MGA MICROSYSTEMS

PEAR TREE  
APPLEDORE, TN26 2AR ENGLAND  
TEL: 0233-83-571  
TLX: 8950511 ONEONE G (BOX 13311001)  
COMPUTER SOFTWARE, HARDWARE & ACCESSORIES

Base 128K version £147.20  
per additional 64K £18.40  
full 512K version £257.60  
512K adaptor (w/64K) £101.20  
full 1Mb version £487.60  
(these prices include VAT)

## WYSIWYP

"What You See Is What You Pay"  
There are no hidden extras, ->>>>  
prices incl. VAT & p&p. E.&O.E.

## MGA MicroSystems

PEAR TREE, 0233-83571  
APPLEDORE,  
KENT TN26 2AR



# LASER 128EX

## WHEN YOU FEEL THE NEED FOR SPEED

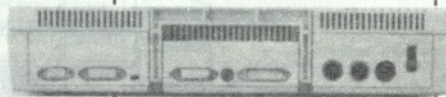


**The Laser 128EX is 3 times faster than an Apple IIe or //c.** The Laser 128EX Apple-compatible computer has all the built-in features of the popular Laser 128, plus more. MORE FEATURES, MORE MEMORY, MORE SPEED AND MORE EXPANDABILITY. The Laser 128EX is designed for the serious computer user, and it's ready-to-run — plug it in, insert your program and take-off. This machine is built to race.

**The 128EX has everything built-in, including a disk drive and interfaces to all your peripherals,** including serial and parallel printers, a modem and mouse, joysticks, external 3 1/2" and 5 1/4" drives, and even a color RGB or monochrome monitor. Only the Laser 128EX has these performance features built-in.

**The Laser 128EX is expandable!**  
Boost the internal memory of the 128EX over 1Mb with its fully socketed AppleWorks-compatible RAM board. And, it has an expansion slot to let the computer grow with your increasing demands.

**The Laser 128EX performs like a top-of-the-line Apple, but is priced like a Commodore.** The 128EX is

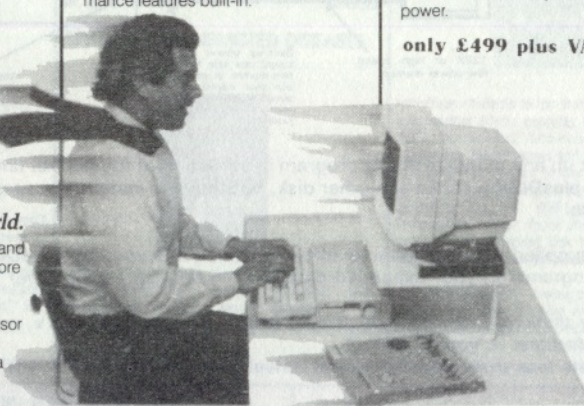


about half the price of an Apple //c with three times the performing power.

**only £499 plus VAT**

### Speed through the largest software library in the world.

The Laser 128EX runs Apple IIe and //c software at speeds never before achieved. Its built-in 192K RAM (128K — User and 64K — Video) memory and triple speed processor lets you run programs at a world class pace. The Laser 128EX is a machine designed for leading performance.



Apple, Apple IIe and Apple //c are registered trademarks of Apple Computer, Inc. Commodore is a registered trademark of Commodore Business Machines, Inc. © 1987

## LASER 128EX

**£499 plus VAT THE AFFORDABLE COMPUTER**

# update // info

SPECIAL VERSION  
update// ISSUE  
SPRING 1988 VOL. 1 NO. 1

A Newsletter for Apple II Users

"update // info" is our new newsletter, this is where we'll be telling you about news in the Apple II community. Every (quarterly) "update //" will contain at least a two-page issue of "update // info", and in the months between issues of "update //", we will be publishing "update // info" hopefully at least one issue in between normal update //s. These main issues will run to about 8 pages depending on what's new and/or interesting!

On the IIGS front, we found there were so many products we hadn't mentioned in our updates that we felt the best thing to do was simply to list them, - see main update //, - anyone interested in any listed product just ask for a specification sheet.

### FLUID DYNAMICS

One of our long-standing clients who's been writing technical engineering software for the Apple II since 1980, has asked us to mention the fact in this premiere issue of update info. The packages are for either Apple II & IBM-PC, come from "SkiSoft", and are available from MGA, (full details on request). The packages are "PIPEZLOSS", - a fluid dynamics package for solving problems associated with flow, sizing, and pressure drop in pipework and ducting systems; "REVALVE", - which gives fast and efficient sizing & specification calculations for relief and safety valves to API RP 520 & BS-5500; "ORIPS", - an orifice plate package to carry out sizing and flow calculations for orifice plate, short (ISA) & long nozzles, venturi nozzles or classical venturi, strictly in compliance with ISO-5167 & BS-1042. Each package costs \*249.00+VAT.

Incidentally, in the past we've been unable to help people sell

software they may have developed. This has always been because of the prohibitive costs of producing a leaflet/brochure. Now with this news section we have the capability to let other users out there know what you have produced. It doesn't have to be a commercially-produced package, maybe something like a series of 20/30 screens for Lode Runner or something. If you're proud of what you've produced & maybe want to get a little pocket money out of it, or simply want to share it with others; then write to me, Jon Gurr at:

"update // info"  
Pear Tree, Appledore  
Kent TN26 2AR

### PC Transporter

Well, its here at last, the long awaited "Little Blue" IBM-PC MS-DOS co-processor card for the Apple II. I won't bother to tell you too much about it, for there is a double-page ad elsewhere in this issue, and Mark Whelan has written a single page preview in Feb issue of Apple 2000 magazine, (with the promise of a full review in the April edition). The main reason for mentioning it is to discuss its' alternatives; namely the "II in a PC" & "MatchPoint/PC" products mentioned on the front cover. Not much is known about II in a PC, except that it is a follow-up to a very successful product called "II in a Mac" which has been selling well for a couple of years, (you run Apple II software actually on the IBM-PC). The other option; "MatchPoint", (continued on page 2)

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## NEWS FROM TIMEWORKS FOR IMMEDIATE RELEASE

TIMEWORKS INTRODUCES "PUBLISH IT!" ...  
"A DESKTOP PUBLISHING POWERHOUSE FOR APPLE COMPUTERS"

Deerfield, Illinois. -- PUBLISH IT! -- a full featured, fully integrated desktop publishing program for Apple IIc, IIe, and IIGS computers -- was introduced by Timeworks at the Fall '87 Comdex Show.

"PUBLISH IT! includes fully integrated word processing, page layout, and graphics," explains Timeworks President, Mark L. Goldberg. "This allows the user to move freely between the page text, graphics, and page layout functions without leaving his page or juggling programs."

"And, for all of its state-of-the-art ability,

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(PC Transporter - continued from page 1)  
(MatchPoint) is actually a card that goes inside an IBM-PC so you can read & write Apple II DOS 3.3, ProDOS, & CP/M disks. Considering the costs involved, (PC Transporter is *expensive*), for lots of applications it is much better to have two separate computers which are able to share data if necessary. With an entry-level Amstrad PC1512 priced at #399+VAT, if you just have to run Lotus 1-2-3, then why not simply buy a IBM-PC compatible? And if you really can't live without AppleWorks, then simply keep your //e or //c & transfer data via the MatchPoint. Or, run AppleWorks on the PC using II in a PC!

That's all for now on the subject of Apple/IBM, save to advise that II in a PC costs #128.65+VAT, and MatchPoint/PC costs #169.57+VAT, and both can be purchased from MGA.

#### Ye Olde Curiosity Shoppe

We've managed to get hold of some useful bits of discontinued Apple kit if anyone's interested. Prices are relatively high, but soon they will become priceless...

DOS 3.3 Programmers' Manual #19.95, DOS 3.3 Users' Manual #19.95, Super Pilot Special Edition #49.95, ProDOS DeskTop Toolkit #49.95, Pascal DeskTop Toolkit #49.95, Apple II FileCard Toolkit #49.95, Apple II Pascal 1.3 Device Support Tools #29.95, Apple II Pascal 1.3 #97.95 (RRP was #224.25), - these prices include postage & VAT if applicable.

#### NEW IIGS SYSTEM DISK v3.1

Includes 9/87 System Software and the much talked about new IIGS Finder. Disk only #5.00, or #10.00 including extensive release notes which also document new tool calls not found in the current releases of the Apple IIGS Toolbox Reference. (Prices include p&p/VAT).

#### NEW ProDOS-8 v1.4 UPDATE DISK

Fixes several bugs, and is the latest version available. Disk only #5.00, or #10.00 including extensive notes which document all ProDOS changes since v1.1.1, (Prices include p&p/VAT).

#### MGA now APPLE DSVAR

Yes, it's official, Apple Computer (UK) Ltd. has taken MGA back under its wing! Having not been an Apple Dealer since 1983 hasn't really been much of a problem for us, but we decided it was time again for a closer working relationship. "DSVAR", means "Dealer Supported Value Added Reseller", and what it means is that we are not an Apple Dealer, but we can still sell Apple-manufactured equipment through a special arrangement with a local Apple Dealer, (Computer Centre BMS Ltd. of Hastings in our case). What it does mean is that we can supply genuine Apple spares for any Apple II, III, //e, //c or printers etc...(NOT Macintosh), if available...

#### BITS & PIECES

We now have continuous pin-feed labels for 3.5" disks. They are purpose-designed & feature removable adhesive which will cheer some of you up. Size is 71.5x69.6mm, and they come in packs of 150 in 1-across form. Price #3.35+VAT.

Also available on the label front is a 1-across 73.7x10.3mm wide thin label we use for stock marking. If anyone wants small packs of 2000 we would be happy to sell them for #5.96+VAT.

Another goody we've got is packs of continuous cards which can be used for either index file cards, or as postcards. The size is 102x180mm, and they come in 1-across form. We have white in 250 (#7.29+vat), or 1000 (#15.00+vat), as well as pastel colours, (pink, blue, green, & yellow), at #4.85+VAT/100.

For the really adventurous amongst you, we have continuous business cards! There is a software package by Intracorp for Apple II, IBM-PC,

Macintosh, Amiga, and Atari-ST called "Business Card

Maker". We've not had a chance to look at the package itself, but

have had superb results using "Printrix" to print the cards.

We used a few different Fontrix/Printrix fonts as well as a Print Shop graphic. If

anyone would like to review "Business Card Maker" for Apple

2000, then please request it through Graham Attwood at the club in the normal way. The

cards themselves are a mite expensive at #19.95+VAT for 200, but the advantages of short runs, specials, etc.. are obvious.

#### CLIPCATURE

We make mention of this useful graphics utility again, (we featured an ad for it in our 5/87 update //), because of its usefulness to users of Publish-It!

## 1988 is the year of Apple II Desk Top Publishing

Already two packages have hit the streets, & with the fabled "Springboard Publisher" still to come; we wait with bated breath to see what else...

Normally, Publish-It! can only use hi-res or double hi-res screens or portions of them, but with "ClipCapture", the vast Print Shop & NewsRoom graphics libraries are available to it. ClipCapture costs only #19.95+VAT.

#### PUBLISH-IT! GRAPHICS EDITOR

As can be seen from the literature, Publish-It! does not contain a graphics editor with which to create your own artwork, logos, etc. This was deliberate as most Apple II users will have their own favourite, but for those without; we have the excellent Graphics Magician Jr. at just 17.35+VAT.

continued on page 4

Built-In Graphic Tool Box: Allows you to draw lines, boxes, circles, rules and more. Plus, you can choose from a wide variety of built-in line and fill patterns, or create your own.

Graphics Importing: You can directly import graphics and illustrations from any standard Apple double-high-resolution drawing program.

Special Typesetting Functions: Includes kerning, leading, and more.

Automatic Text Flow and Word Wrap: PUBLISH IT! automatically flows text from column to column on the same page, or carries it over to subsequent pages.

Multiple Size Page Views: Allows you to view, edit, and layout pages at actual, double, or half size. Or, you can reduce them so the entire page fills the screen.

... and much, much, more!

Like all Timeworks software, PUBLISH IT! is supported by Timeworks full-time Customer Technical Support Team -- at no charge to registered users; a Money Back Guarantee; and a very liberal Update Policy.

PUBLISH IT!, which is part of the Timeworks "Platinum Series," is available NOW with a Suggested Retail Price of #85.17+VAT. The IBM PC and compatibles version of PUBLISH IT! is scheduled for release around April '88.

only in more expensive programs.

Text Importing: Allows you to load documents from APPLEWORKS, BANK STREET WRITER, or any other word processor in standard ASCII format directly into PUBLISH IT!

Professionally Drawn Graphics Illustrations: Includes over 200 beautifully illustrated graphics ready-to-go art that makes your documents even more eye-catching.

