

# ON THREE Magazine

The Information Source For Apple /// Owners and Users

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## Apple Sauce

by Bob Consorti

Back Again

So much news this time! In this issue David Ottalini shows us how to use the marvelous WPL feature of Apple Writer /// to make the /// format text like never before. Also in this issue, John Lomartire heads up our hints section with some more helpful tales for /// owners.

We've just introduced a new line of ultra-fast hard disk drives for the Apple ///! The complete details are listed on the back cover. Suffice it to say that they are fantastic buys and a great addition to your Apple /// system. They offer one great feature - the ability to take them off the Apple /// and put them on any other computer that has a SCSI port (a new disk drive standard). So if your trusty Apple /// ever doesn't startup one morning, you can rest assured that your investment in the hard disk is secure.

We've been able to get a hold of a limited number of Apple /// video interlace kits and are offering the for sale at a very low price. The interlace kits are easy to install and they double the vertical resolution of your video screen. This was one of the enhancements included with the Apple /// plus so if you have a regular Apple /// you should get one now as it is a limited supply and I don't know if we can get anymore.

**512K Memory Upgrades:** As you may know ON THREE produced the only 512K memory expansion for the Apple ///. We ran out of stock a couple of years ago and it was simply too expensive to do another production run. Over the last year we've been getting requests for the 512K memory board and if we can hit a certain number of people who will purchase it we will do another production run. The 512K comes in 3 varieties or different memory configurations. Each come complete with memory board, instructions and update disks. The fully populated 512K memory board costs \$399.95. The 512K with 256K of memory costs \$299.95. To use this board you take the memory from your existing 256K memory board and plug it into the 512K memory board to get the full 512K of memory. Note that a chip extractor tool is included. The last version is the 0K 512K memory board. This board is for those who want to get the memory elsewhere and is priced at only \$159.95. If you want a 512K memory board and will purchase one please give our sales office a call at (206) 334-8001 to have your name put on the list. When the boards are completed we will notify you. When calling please specify how many you will purchase (if more than one) so we can keep an accurate count. We will ask for a credit card number when you call. Note that nothing will be charged until the boards actually ship - we just need an assurance that you will purchase the board.

**Ordering Information:** We accept Visa, MasterCard, money orders, personal checks or wire transfer. Sorry but we no longer allow C.O.D.'s on any of our products. Since we don't copy-protect any of our software, no returns are allowed. Special order items are not returnable. Please allow up to eight weeks for delivery of 'rarer' items. Not responsible for typographical errors.

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# Formatting Text With WPL

by Dave Ottalini

Powerful Word Processing With AppleWriter

One of the most powerful features of AppleWriter is WPL, Word Processing Language. The programming language allows you to automate many of the tedious word processing chores, like mail merge, etc. you do on a daily basis. For me, I discovered it could also help with the formatting chores involved with the Taylor Pohlman disks mentioned above. So I wrote a program, called "PD.CON" that I think you'll be able to find very useful.

The first thing to decide is how you want to format the text. For example, to read a text file using Washington Apple Pi's Basic Menu.Maker program, the file must be no longer than 78 columns. 79 columns will wrap to the next line. For readability, it should also be continuous text with no big spaces between pages. The way to do this is set up a Print/Program menu that can be loaded into memory and which will format the text file properly. Here's how mine looks for the PD.CON WPL Program:

## Print/Program Commands:

```
Left      Margin    (LM) = 0
Paragraph Margin (PM) = 0
Right     Margin    (RM) = 78
Top       Margin    (TM) = 0
Bottom    Margin    (BM) = 0
Page Number (PN) = 1
Printed Lines (PL) = 66
Page Interval (PI) = 66
Line Interval (LI) = 0
Single Page (SP) = 0
Print Destination (PD) = .RAM/FILE
Carriage Return (CR) = 1
Underline Token (UT) = \
Print Mode (LJ,FJ,CJ,RJ) = FJ
Top Line (TL) :
Bottom Line (BL) :
```

Note that the printed lines and page interval lines are the same, that the right margin is set to 78 and the print mode is full justify. For speed, I have set the print destination for a RAM disk with a file name of FILE. You can change the print destination (disk drive or hard disk) to match your system's setup.

Now, with the Print/Program Commands set, lets get to the actual PD.CON program:

## PD.LOAD P PD.CON by Dave Ottalini; WAP /// SIG

```
PND
QCPD
P Load the Print/Program file.
START PPR
NY
PPR=====
PPR
PD Format Conversion Program
```

```
PPR=====
=====
PPR
S.RAM/FILE
PIN Load which file?: =$a
NY
L $a
PPR
PPR Hold on now...I'm working as fast as I
can!
P This is the body of the program. It
loads the file, then prints it
P with the proper settings, as contained
in the Print/Program file.
B
PNP
NY
L.RAM/FILE
P Now, load the converted file back into
memory, clean it up and save it
P back to the proper location.
B
F/ //A
S $a
Y
OE.RAM/FILE
P
NEW
PPR
PIN Another File?: =$C
P If you want to convert another file, hit
"Y" or "y"
P Otherwise, reload the "startup" values
and quit.
PCS/$C/Y/
PGO START
PCS/$C/y/
PGO START
PPR
NY
PDO.D1/STARTUP
PPR
QUIT PQT
```

This is basically how the program works: It first loads the new print/program commands and then clears memory. The empty file FILE is saved to the RAM disk (since you can't print to disk unless there is a file present first) and you are prompted for the text file you want to format.

Once designated, that file is loaded and the processing begins. It is printed to disk, allowing the file to be formatted properly according to the print/program commands you set up. Memory is cleared and then the newly formatted text file is brought back into memory, cleaned up a bit and automatically saved back to disk for you. Now that's convenience!

At this point, we erase the .Ram/FILE file and ask if you want to format another text file. If you don't, the program

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# Apple /// Hints & Help

by Apple /// Owners Everywhere

Help From The Great Apple /// Knowledge Pool

## Automatic Mailing Label Centering by John Lomartire

I recently had to type out a set of mailing labels. Each address had lines of varying length, and the line lengths were not constant from label to label, as you would expect. I wanted each address to be printed in the center of the label space automatically.

It turns out that if you have a word processor like Applewriter or Word Juggler that can be made to show the location of the RETURN at the end of the line, there is an easy way to achieve the desired result.

For example, with AppleWriter:

Turn on the RETURN display by pressing CONTROL-O G. Type in the four or five lines of an address. Find which is the longest line of the four or five. Make any line shorter than this the same length as the longest line by inserting spaces ahead of the RETURN.

Set left margin to 0. Set right margin to the maximum number of characters that the label width will hold. This will depend on label size and printing pitch (chars./inch). Set justification for center justify. Now, when you print each address it will automatically fall in the center of the label.

## Continued From Page 4

We appreciate the efforts of ON THREE to continue publishing and keep Apple /// users informed.

Sincerely,

John A. Palenz  
Wichita, Kansas

Dear Mr. Palenz,

The Apple /// can connect to ANY serial printer on the market. And since you have the Apple universal parallel card, you can connect your /// to ANY parallel type printer on the market. Since printers come in either parallel or serial, you can connect your Apple /// to virtually any printer in the world. It is as simple as that.

I recommend the Panasonic KXP model. It comes in regular 8.5 inch and wide carriage versions and has near letter quality print along with various pitches. You can get one at almost any printer or computer dealer in the nation. It will come in either serial or parallel so if you get it in a serial version you can directly connect it and not worry about an interface card.

With regard to the #3 key, try removing the key cover (held in place by five screws on the bottom of the chassis) and using a can of compressed air. Most of the time that does the trick. If it doesn't you might want to try taking the whole keyboard assembly out and unsoldering and resoldering the posts of the #3 key. In my experience that fixes many of the bad keys. If it doesn't the entire keyswitch will have to be replaced. You can probably get the keyswitch for \$10 but if you don't have a desoldering gun it will be impossible. We do repairs like that and charge a flat \$40 fee (not including keyswitch).

Dear Mr. Consorti,

I still use my Apple /// and am interested in keeping it

useful. Currently I have a 20 megabyte Sider as a hard drive and I am curious as to what advantage a SCSI drive would have? There is also the problem of backup. Backup /// simply cannot backup my hard disk without generating an error and having to start over, so I am stuck with having files smaller than 512K (backed up with my Micro-Sci A143) or more complicated, because of driver space, backup to my 800K CPS disk. What the Apple /// community needs is a good abckup program that can do either single file, multiple subdirectories or entire volumes. Does such a Backup utility exist in the Apple /// universe?

Sincerely yours,

DeWayne Townsend  
Minneapolis, Minnesota

Dear Mr. Townsend,

The Sider 20 is a SASI drive which was the precursor of the now standard SCSI type of hard disk interface. The Sider 20 can be used on an Apple II with the exact same interface card or on the IBM with a different interface card. The SCSI advantage is that most computers now have a SCSI port built-in and SCSI drives can be used on ANY PC now or in the future. SCSI also has a much higher data transfer rate than the SASI protocol allows. The SASI Sider allows a maximum of about 131K/second while the SCSI protocol allows drives to go past 10 megabytes per second, although most SCSI drives only do 1 to 1.5 megabytes a second.

I am still working on the GoBack backup program for the Apple /// and it will do a much better job of backing things up than Backup /// does. We will keep everyone advised as to when it's finished.

If you have a question about your Apple /// or associated equipment, please write us. Along with getting the right answer, you will be helping other Apple /// users with similar problems.

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automatically re-runs the WPL STARTUP program for my system. If you type "Y" it heads you back to begin the process all over again.

Apple // AppleWriter users can adapt this program quite easily for your own use. You'll need to change the Clear Screen command (^) and the pathnames for the disks, since the Apple // uses slot,drive designations.

WPL is really a great addition to AppleWriter (one reviewer said it made the difference between being a good program and a great program). Although you can get the "unofficial" 4.1 version of AppleWriter through most Apple /// clubs, I would strongly recommend you get the manuals from Sun Remarketing, (they come with the 2.0 version, the last official /// version of AppleWriter) which are excellent.

### Continued From Page 5

damaged the boot code that the 512K upgrade disk checks. If you send me the disk I can fix it. The Sider should work with no problem with PFS and a Ram Disk active. When running things under Selector you are correct in assuming that the PFS disk will not need to be modified. All changes are done to the Selector boot disk. And Selector works fine with both PFS and Ram Disks.

Sincerely,

Bob Consorti

Dear ON THREE,

What, if any, reasonably priced dot-matrix printers do you sell for the Apple /// or are otherwise still available for the ///? Please describe fully.

We have two Apple ///'s, one with a serial connection to a Qume Sprint 5 and the other with an Apple UPIC connected to a Smith Corona TP-1. Some time ago we thought about replacing the TP-1 with a DMP but didn't do anything then. What we would like now is a reasonable fast DMP with 10/12/15 pitch and a wide (legal-size) carriage.

Also, on one ///, the #3 key is not functioning. Can it be revived, repaired or replaced and at what cost?

### Continued On Page 3

## Uncopyprotect Driver

The Uncopyprotect Driver allows you to make backup copies of AppleWriter ///, VisiCalc /// and Advanced Visicalc. It also allows you to install those programs on hard disks and eliminate the need for key disks.

Protect your original copies of these valuable copy-protected programs and order your Uncopyprotect Driver today. Originally priced at \$29.95 you can get your copy today for only \$19.95 plus \$3

## Selector Program Switcher

If you have a hard disk or large capacity floppy disk, Selector allows you to place all of your programs on the hard or floppy disk. Instead of loading programs from floppy disk, Selector allows you to run your programs from an easy to use menu system. When you quit your program the Selector main menu will reappear, allowing you to quickly run any other program. Selector is the fastest and most compatible program switcher on the market. If you are using Catalyst get Selector and see what you're missing. Now priced at only \$49.95 plus \$7 S/H.

## Modems For The Apple ///

If you want to enter the wonderful world of communications, a modem from ON THREE is all you need. For a limited time, both our 1200 baud and the faster 2400 baud modems come with the Communications Manager. With it you can talk with other Apple /// users on CompuServe™, the Source™, Dow Jones™ and other information services. You can even connect directly with another PC!

Fully Hayes compatible our modems are an exceptional value as they include both communications software and all necessary cabling. 1200 BAUD modem is ONLY \$129.95 and our 2400 BAUD modem is ONLY \$249.95. Add \$10 for s/h on either modem.

**For a limited time, order any game ON THREE sells for only \$10 plus \$2 shipping and handling.**

## ON THREE O'Clock

Did you know that the Apple /// has provisions for a built-in clock and calendar? The ON THREE O'Clock is easy to install and does not require a slot. Compatible with ALL Apple /// programs, simply save your files and the time and date will be saved along with it. You can then use the System Utilities or other file listing utility to see the date that files were created or modified. Includes battery holder, cable, micro chip and easy to follow instructions for installation and use. Batteries not included. Originally \$49.95, now only \$24.95!

## AUTHORS WANTED!

We are accepting article submissions for review and possible publication from readers who are willing to share their Apple /// knowledge and experiences with others. If you would like to contribute to the pages of ON THREE Magazine, here's your chance! We're looking for articles of general interest, short programs, tutorials, hints on getting things done easier & more efficiently, games and anecdotes. Anything goes!

Just send your article or program on diskette to ON THREE. If it's chosen for publication we will check it for accuracy and even correct those silly spelling errors. Before you know it, you will become a rich (at least in spirit) and famous author. Your work will be read worldwide, by a captivated & spellbound audience. For a copy of our author guidelines, please send a self-addressed, stamped envelope to ON THREE Magazine, 1050 West Columbia #3E, Chicago, IL 60626.

# Letters To The Editor

by Bob Consorti & Friends

Go ahead, try and stump me!

Dear Mr. Consorti,

Last summer I purchased from your company a 512K memory expansion board, A Sider 40T hard disk drive, and a copy of Selector. I have been very busy and have not had time to have the board installed until recently. It seems to work fine except for one problem. We have been using PFS File and Report with our machine and a 5 MB Corvus hard disk. This combination has worked fine, but was very slow about coming up with a blank form after entering one form. The hard disk was faster than floppies, but still gave a noticeable wait. I have hoped that using the Ram Disk would reduce this significantly, but when I tried to upgrade the PFS boot disk, the upgrade program stops and says "Error in checking this disk" and does not do the upgrade.

The original PFS disk was modified to work with the Corvus and I assume this is the "Error" that the upgrade program found. I then tried the upgrade on our backup disk of PFS File and it worked fine except of course it will not operate with the Corvus. It is significantly faster than direct disk access.

I have not yet tried the Sider hard disk as I wanted to be sure that the memory was working before going ahead. I have glanced at the instructions for the Sider and did not see similar changes on the PFS disk, so am I to assume that it should work with both the Ram Disk and the Sider active? When the Selector program is active, I would assume the PFS disk does not have to be modified for the Ram Disk, is this correct?

We are looking forward to having the larger hard disk available as we were troubled in some of our work by the limited capacity of the 5 MB unit, e.g. trying to generate an index file for the data base of 3.5 MB. Thank you for this

help.

Sincerely,

Carl C. Cowen  
Indianapolis, Indiana

Dear Mr. Cowen,

It does sound like the Corvus installation has somehow  
**Continued On Page 4**

## ProFile Repairs

If you've ever had problems with your 5 megabyte Apple ProFile hard disk drive, chances are all your ProFile needs is a low level format. For only \$50 (shipping extra) we will perform the low level format and verify that the disk is okay.

If the disk is damaged in a way that a low level format won't correct we can also repair or replace those faulty components. Likewise we can transfer data from your ProFile to a newer technology hard disk like the LC or HP hard drives. For information on drive upgrades please call us at (312) 338-2202. For UPS ground return shipping on the ProFile repair, add \$17.50. For prices on UPS 2nd day air or other delivery services please call before sending in your drive.

## /// Video Interlace Kits

The Apple /// interlace kit is an easy to install upgrade that gives your Apple /// double the vertical resolution that it currently has. The Apple /// interlace kit improves the appearance of ALL Apple /// programs. Only \$29.95 plus \$4 S/H. Limited supply - order today!

## It's Time To Get ---> Draw ON /// - The Apple /// Graphics Tool

Have you ever wanted to simply draw, sketch out floorplans or put together some artwork on your Apple ///? If so you need Draw ON /// - The Best Graphics Program For The Apple ///. You can draw circles, boxes, lines - enter text in a variety of sizes and styles, pickup, move and copy objects from libraries of screen images, shrink, expand, rotate, invert and texture images on the screen - In Black/White AND Color! You can zoom in on a particular portion of the screen to do very finely detailed work. And with our Brush capability, you can use any object on screen as a drawing tool.

Features such as rubber-banding of lines, user adjustable grids and easy to follow menus make Draw ON the only graphics package for the Apple /// that is both powerful and easy to use. Draw ON gives an individual tremendous power. You can use it in creating charts, preparation of slides and tables for presentations, and letterhead design. You can make changes to the dull graphics that your other programs create by adding borders, textures and different typefaces. Even CAD applications, drafting and flowcharting are now possible on your Apple /// with Draw ON ///. Combined with an excellent instruction manual, you can be doing useful work in less than an hour.

So you know the product. It's the most popular graphics program on the market for the Apple ///. Draw ON /// is the standard for drawing, painting and creating images on the Apple ///. Draw ON /// works with the joystick, mouse, graphics tablet (\$20 extra) and the new TrackBall /// to provide page after page of great looking charts, graphs or other drawings. Why don't you have it? Don't you want a graphics program, or is pencil and pen good enough? If you've been waiting for the price to drop, wait no longer. For a limited time, order Draw ON /// for almost \$130 OFF its regular price of \$179. For ONLY \$49.95 plus \$5 for shipping and handling order the best graphics program for the Apple ///.

When ordering please specify the printer & interface card you are using. We support almost every printer connected to the PKASO and PKASO/U interface cards and the Apple DMP, ImageWriter and Epson (MX, FX and RX) line of printers via any interface card or connected to the RS-232 port on the back of the Apple ///. Draw ON /// requires a 256K or 512K Apple ///. Works perfectly with Selector /// & Catalyst and may be installed on your hard disk for quick access.

With the recent reduction in the size of the magazine I have much less space to tell you about all of our products. Due to this, below I'll give you a short description of The Desktop Manager and add-on accessories along with our hard disk and extended floppy drives for the Apple ///. If you have any additional questions please give me (Bob Consorti) a call at (312) 338-2202 and I'll be happy to help.

## The Desktop Manager

The Desktop Manager (TDM) is a utility that allows you to use desk accessories like those on the Macintosh™. They are utility programs that you use within other programs. You can be using /// E-Z Pieces or any other Apple /// program and a simple keystroke will freeze your program and display the TDM menu. Simply highlight the accessory you want, press RETURN and in a moment it will be up and running. When you're finished, press escape and you'll be right back in your program.

With TDM you can throw away your paper, pen, calculator, appointment book and more! We've included a number of standard features to enhance your productivity. TDM is also expandable. You can design the system that best suits your own needs. TDM has a built in: Note Pad, Appointment Calendar, Calculator, Pickup & Paste, Built-in self help screens and more. You can add new accessories such as macros, disk utilities, a communications program, games and more at any time.

The Desktop Manager requires an external disk drive of any capacity and a 256K or 512K Apple ///. TDM uses about 32K of memory. A hard disk or large capacity floppy disk drive is highly recommended. Works with Selector, Catalyst and ALL other Apple /// programs. Regularly \$129, now only \$39+\$6 S/H.

### ASCII Chart

This Desktop Manager add-on lists the decimal, hexadecimal and corresponding character values of all ASCII keyboard characters. Includes source code! Regularly \$19.95, now only \$4.95+\$3.

### The Communications Manager

The Communications Manager (TCM) is a powerful communications package that lets you talk to other computers or services such as Dow Jones™, CompuServe™, The Source™ and others. VT-52 emulation, XModem & Binary II transfer protocols (including Turbo downloads) are supported. TCM runs as a stand-alone program or under The Desktop Manager. Only \$24.95+\$3.

### Disk Manager

This TDM add-on allows you to list, copy, delete, rename, lock/unlock files and list the devices, copy, format, rename and verify disks at any time. Only \$24.95+\$3.

### The Graphics Manager

The Graphics Manager (TGM) can take any Apple /// black/white or color & any Apple // black/white hi-res, color or double hi-res. color or Print Shop image and print it in a variety of formats. Take your entire picture, or a portion of it, and expand it to fill an entire page or shrink it down to a small section. Rotate, invert or flip the image to suit your needs. Includes versions of TGM that run as a stand-alone program and as a TDM accessory. Only \$24.95+\$3.

### Macro Manager

The most popular add-on accessories for TDM is a keyboard macro program that can redefine any keystroke to be a series of keys. Thousands of keystrokes may be assigned to a single key. Phone numbers or anything that you type can be setup to as a macro and played back at a moments notice - via a single keypress! Includes Macro Recording for ease in macro creation. Only \$24.95+\$3.

### Super Accessories Disk #1

Contains the following TDM accessories: Printer Setup lets you send complex controls to your printer via menus, TypeWriter, Labeler, New Desktop Setup allows better control over the ClipBoard, Make Subdirectory, Menu Manager which provides submenus so you'll have an infinite number of accessories on your Apple ///. Only \$19.95+\$3.

### Super Accessories Disk #2

Contains the following TDM accessories: File View lets you view another file within a file: Change Font: Show Time (no need to go back to Systems Utilities to change the date or time) plus there's an elapsed timer in this module: Change File Type; File Print, Print Screen better than screen dump, you can opt to Print Screen, Form Feed Printer or Line Feed Printer: Reload and Exit: PKASO U commands and The Warning Module. Only \$19.95+\$3.

### Super Accessories Disk #3

Contains the following TDM accessories: Accessory Manager lets you customize your TDM menus, rename accessories & more. Character rulers displays rulers on the screen to help you align text. Hex View/Hex Print lets you view or print any file in hexadecimal form. Info Help lets you enter any type of info into a TDM window for instant recall. SOS Errors is an Info Help accessory that lists all SOS errors. Block View/Edit is a powerful disk block editor. Included are both a stand-alone and TDM version. Only \$19.95+\$3.

### Extra-Special Sale

For a limited time, in addition to the fantastic sale prices of The Desktop Manager and its add-on accessories (already 25-50% off), you can get the main accessories along with ANY two add-on accessories for ONLY \$59 + \$9 s/h. At these low prices we may have trouble keeping them on the shelf so hurry and order your copy today!

## Fantastic Savings On Apple /// Drives

### UniDisk ///.5 800K Drive

The UniDisk ///.5 is a regular Apple 800K 3.5 inch disk drive for your Apple ///. If you have a hard disk but hate making back-ups, the UniDisk is for you! Back up an entire ProFile with just seven micro-floppies! No hard disk? Then this is a great way to say goodbye to your floppies! With Selector or Catalyst you can store all of your programs on the UniDisk and switch between them in seconds. The new 3.5 disks are so small they can easily fit into your shirt pocket but they're a lot tougher than regular 5.25 inch floppies. Complete with 800K drive, interface card, cabling, driver disk and complete instructions. All for ONLY \$499+\$10! UniDisk driver/documentation only \$50+\$3.

### The LC & HP Hard Disk Drives

If you've been looking to replace your current hard disk with one faster and larger have we got good news for you! We have two new lines of hard disks for the Apple ///. All of them are full SCSI (Small Computer Systems Interface) drives and can be used on any computer with a SCSI port.

The LC (low cost) line is based on the popular Seagate hard disk mechanism and we have sizes ranging from 20 to 80 megabytes. The HP (high performance) line is based on the fast Quantum disk mechanism and we have sizes ranging from 40 to 120 megabytes. Both the LC and HP drives work in Apple /// native mode and Apple II emulation mode. Please see the back cover for full details and pricing information on all of these great drives.

### CPS 800K 3.5 Inch Drives

While many of you select the UniDisk for your expanded storage needs, many /// owners have told us they wanted a low cost alternative to the the 800K Apple UniDisk 3.5 drive, for main storage or for backups. With our new Universal CPS Driver, you've got it! The CPS interface card with our driver software allows you to attach almost any 3.5 inch drive to your Apple ///. Universal CPS Driver: \$50+\$3. Universal CPS Driver & Interface Card: \$149+\$5. CPS 800K Drive: Now only \$249. Combo of drive/interface/driver is regularly \$399, for a limited time it's only \$299. Add \$6 s/h per drive.

## MOVING?

If you are in the process of moving, please give us a *minimum* of one months notice. Because the magazine must be printed and mailed prior to the date on the cover and because it takes us a little while to update our records, please inform us *before* you are move. Doing so will assure that your copy of ON THREE won't be lost in the mail or get to you late.

## DeClassifieds

**FOR SALE:** Sider D7T hard disk. That's 67 megabytes of storage. Complete with interface card, cables and documentation. In perfect condition. Compatible with ALL Apple /// programs. These drives are full SCSI and work on the Apple II and Mac. I'll warrant the drive for a full year, just like a brand new Sider. All for only \$750. Call Bob at (312) 338-2202 evenings for details.

**FOR SALE:** Sider D9 hard disk. That's 88 megabytes of storage. Complete with interface card, cables and documentation. In perfect condition. Compatible with ALL Apple /// programs. These drives are full SCSI and work on the Apple II and Mac. I'll warrant the drive for a full year, just like a brand new Sider. All for only \$899. Call Bob at (312) 338-2202 evenings for details.

**FOR SALE:** A143 (560K) disk drive, not working. Please make offer. Call Bob at (312) 338-2202 evenings for details.

If you have something to sell, or are looking for a hard to find item, try our DeClassified section - it's worked for hundreds of people just like you!

## DeClassifieds Work!

Been searching for hard to find hardware or software? Need to sell some excess equipment? Try an inexpensive DeClassified ad! Our readers tell us they really get results! Place your ad by phone or mail. All copy must reach us 30 days prior to publication date, e.g. June 1 for the July/August issue.

Rates \$1 per word, \$20 minimum.

Subscriber discount \$0.50 per word, \$10 minimum.

Mail your ad copy with payment to:

ON THREE DeClassifieds  
P.O. Box 1193  
Lake Stevens, WA 98258  
Or Phone (206) 334-8001

## Lazarus ///™

Lazarus /// allows you to restore or undelete almost any file which you've accidentally deleted. Completely menu driven, it's incredibly easy to resurrect your deleted files. One wrong keypress can send a months worth of work into limbo. The right keypress with Lazarus will recover it in a few short seconds. For a limited time you can get a copy of Lazarus for **half-price**, only \$24.95 + \$2 s/h.

## Side Print ///™

For years people have been asking if there was a way to print very wide spreadsheets sideways on the Apple ///. Until now there wasn't. But with our new Side Print /// you can print your /// E-Z Pieces, VisiCalc and Advanced VisiCalc spreadsheets sideways on your Apple DMP, ImageWriter, Epson or OkiData brand printers. For a limited time Side Print /// is available today for only \$19.95 plus \$3 for s/h. That's \$10 off the regular low price!

## How Would You Like A Fast, Reliable And Easy To Use Hard Disk Backup?

After years of complaints about Backup /// being too slow and in many cases losing people's important information we've decided to do something about it. We know that many people never backup their hard disk because Backup /// is sooooo slow or because they've had a problem with it losing information.

A while back we started work on a product we call Go Back. If you're sick and tired of the time it takes to backup your hard disk with Backup /// or the System Utilities, Go Back is what you need.

Go Back is written entirely in assembly language for speed, is four to five times faster than Backup /// and much more reliable. We guarantee it!

We were about half-way finished with the project when we stepped back, took a look at the potential market and asked ourselves, "Will there be enough sales to warrant finishing Go Back?"

If there's enough interest in Go Back we will complete it. Now we don't want you to send in your money, or give us a credit card number. All we want is your assurance that you will buy Go Back if we spend the effort to finish it. Actually, we want the assurance of at least two hundred people.

If you want a reliable, very quick and inexpensive (around \$50) program for backing up your hard disk, drop us a note or give us a call at (206) 334-8001. Just leave your name and address so we can notify you if and when the project is finished.

**Late breaking news:** ON THREE is now adding support in Go Back for a tape drive that will be able to backup and restore in just a few minutes, all on one small cassette sized tape!

## \$99 Memory Upgrade!

For a limited time, while supplies last, you can upgrade your 128K Apple /// to 256K for only \$99! This is a complete 256K upgrade package that includes the 256K memory board, installation instructions, Apple /// Confidence memory tester and chip extractor. Also comes with free technical support, a full one year warranty and the ON THREE reputation for service and support.

If you've been thinking about upgrading your Apple /// so it can run programs like Draw ON ///, Selector, The Desktop Manager - now is the time to act. I don't know how long we'll be able to offer this incredibly low price on the 256K upgrade and when supplies run out the offer is ended. Don't delay, upgrade your Apple /// today!

**Next Time In ON THREE:  
A Special New Product Announcement  
For All Apple /// Owners**

## Fantastic New Apple /// Hard Disk Drives

If you've been looking to replace your current hard disk with one faster and larger have we got good news for you! We have two new lines of hard disks for the Apple ///. All of them are full SCSI (Small Computer Systems Interface) drives and can be used on any computer with a SCSI port such as the Macintosh, Apple II or IBM.

The LC (low cost) line is based on the popular Seagate hard disk mechanism and we have sizes ranging from 20 to 80 megabytes. These drives have an average access of 40 milliseconds which is 4.5 times faster than the ProFile. The HP (high performance) line is based on the fast Quantum disk mechanism and we have sizes ranging from 40 to 120 megabytes.

These drives have an average access time of 10-12 milliseconds which is up to **18 times faster than a ProFile!** The Quantum's have a built-in cache which makes many disk intensive operations as fast as a ramdisk! For as low as \$599 you can get a large capacity Apple /// hard disk, so why waste another day with your slow ProFile or other hard disk drive? Order one of our new LC or HP hard disks today and boost your Apple /// to a new level of performance. All of our new hard disks even work in the Titan ///+///e emulation mode!

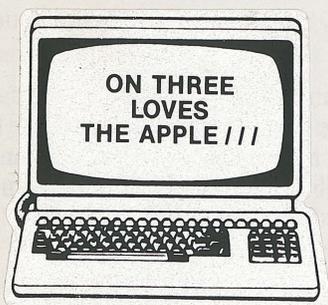
**The Apple /// can only handle disks of up to 16 megabytes, so our new large capacity drives are split into 2 or more volumes per hard disk.**

Description	Price	S/H
LC20 - 20.6 megabytes, 2 partitions, 42328 blocks.	\$599	\$30
LC30 - 32.2 megabytes, 2 partitions, 63960 blocks.	\$699	\$30
LC40 - 46.7 megabytes, 3 partitions, 95940 blocks.	\$799	\$30
LC60 - 61.5 megabytes, 4 partitions, 127920 blocks.	\$899	\$30
LC80 - 81.5 megabytes, 6 partitions, 167280 blocks.	\$999	\$30
HP40 - 42 megabytes, 3 partitions, 82028 blocks.	\$899	\$30
HP80 - 84 megabytes, 6 partitions, 164058 blocks.	\$1099	\$30
HP105 - 105 megabytes, 7 partitions, 205072 blocks.	\$1199	\$30
HP120 - 120 megabytes, 8 partitions, 246084 blocks.	\$1299	\$30

**Important information about the 512K Memory Upgrade Inside - Please Read!**

**ON THREE, Inc.**

Your Apple /// Experts  
P.O. Box 1193  
Lake Stevens, WA 98258



Please check your address label. To the right of your name is your expiration date. If it says Nov 90 or Dec 90 then your subscription has just run out. Please renew for another year for the low price of \$20.

## Super Accessories Disk #4 Includes:

**Find Files** - Locates any file on your floppy or hard disk within 15 seconds. Allows partial file matches for when you can't remember the name of the file.

**Disk Eraser** - Quickly erases any disk, much faster than formatting it. Useful for quickly reusing data disks that need to be wiped clean and when you don't have the format drivers active.

**Area Code/Time Zones** - Displays the location, region and time zone of any area code in the US and many other countries. Great for making sure you're not going to be waking somebody up with a too early call.

**List Files** - A very extended version of the List Files in the Disk Manager. You can now list files to the screen, printer or a file on disk. Additionally, List Files now allows you to list files to any level or subdirectory, similar to the way System Utilities does it - but much faster.

**At only \$29.95 + \$3 S/H we think we'll have trouble keeping these in stock so hurry and order your copy today!**

## New Low Price For /// E-Z Pieces

/// E-Z Pieces is a fully integrated spreadsheet, word processor and data base manager rolled into one program. /// E-Z Pieces combines the power of the 3 most commonly used programs with the ability to easily transfer data among them. This program was written by the author of the Apple II program AppleWorks - the best selling software package on any computer!

AppleWorks & /// E-Z Pieces look and function exactly the same, even the data files can be swapped between II and the Apple ///. /// E-Z Pieces utilizes the full memory available in your Apple /// and was originally priced at \$245. You can get your copy for only **99+\$3.50 s/h.**

## StemSpeller /// - Back By Popular Demand!

If you have /// E-Z Pieces and have been looking for a way to spell-check your word processing files, StemSpeller is what you need! StemSpeller /// is the only utility capable of spell checking /// E-Z Pieces word processing file directly and without any conversion. It also handles AppleWriter and StemSpeller files quickly and easily. For a limited time you can get your copy of StemSpeller /// for only **\$29.95 + \$3.50 s/h.**

