

ON THREE®

The Magazine For Apple III Owners and Users

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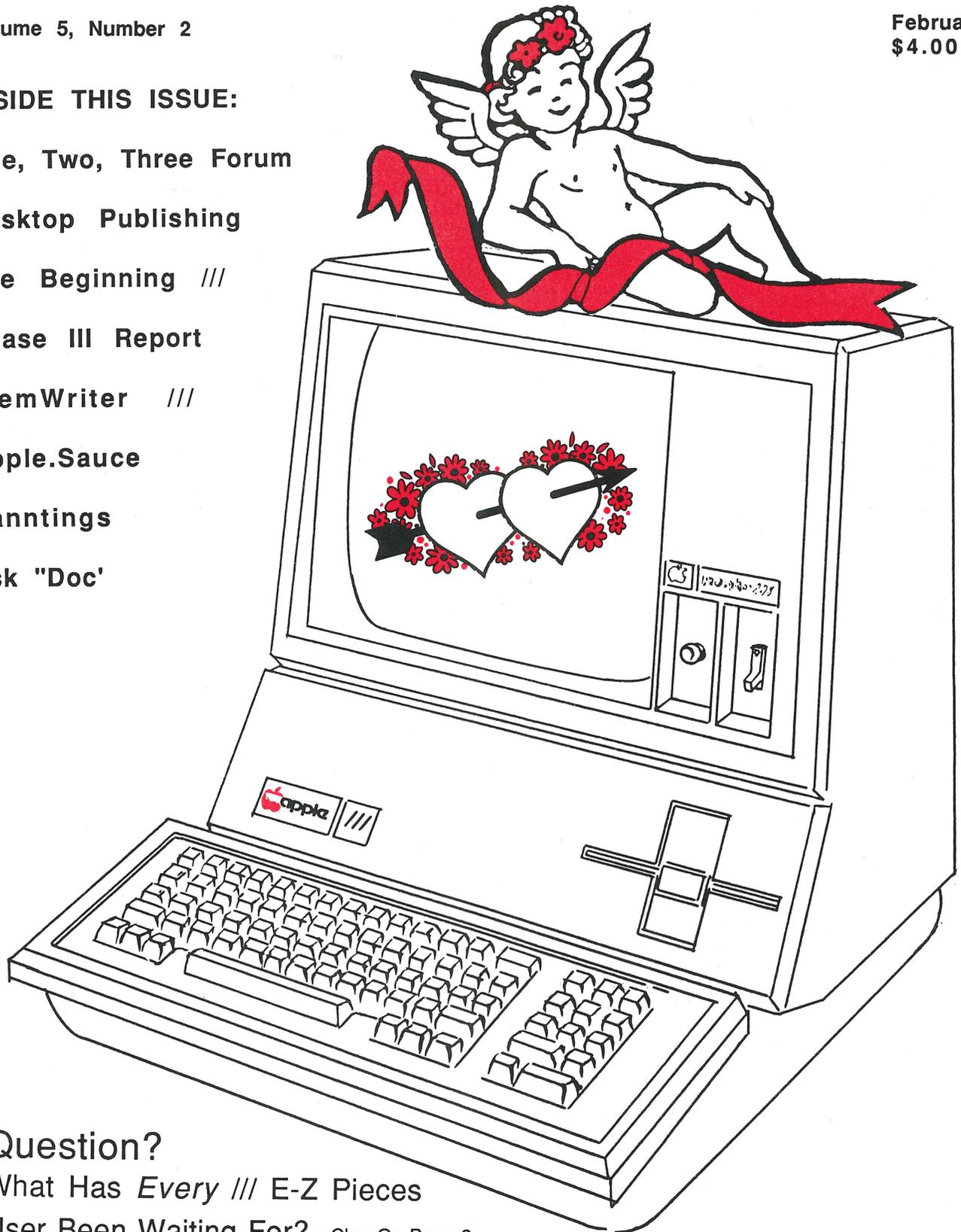
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Who needs

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Access 3270
Advanced VisaCalc
Apple II Emulation
AppleFile ///
Apple Speller ///
Apple /// Pascal
AppleWriter ///
Backup ///
BPI
Business Basic
Business Graphics
Cobol
Draw On ///
Communications Manager
Desktop Manager
EasyTerm
Graphics Manager
Graph'n'Calc
Haba Merge
Keystroke Data Base*
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Lazarus ///
Macro Manager
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PFS: File*
PFS: Report*
Quick File ///
Script ///
Senior Analyst ///
/// E-Z Pieces
VisaCalc ///

*Indicates boot disk required in internal drive

Offer good through Feb. 29, 1989 *Selector /// requires an Apple /// computer with at least 256k of memory.

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The Magazine For Apple III Owners and Users

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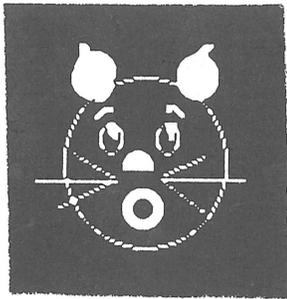
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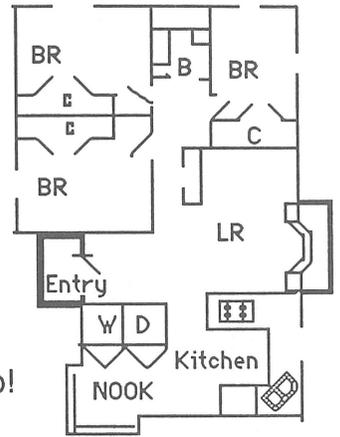
This months cover entitled "*We love the Apple ///*" by Cathy Consorti, aptly describes *ON THREE's* total commitment to presenting you with only the most inovative new software, hardware, support and service for the beloved and trusty Apple ///.

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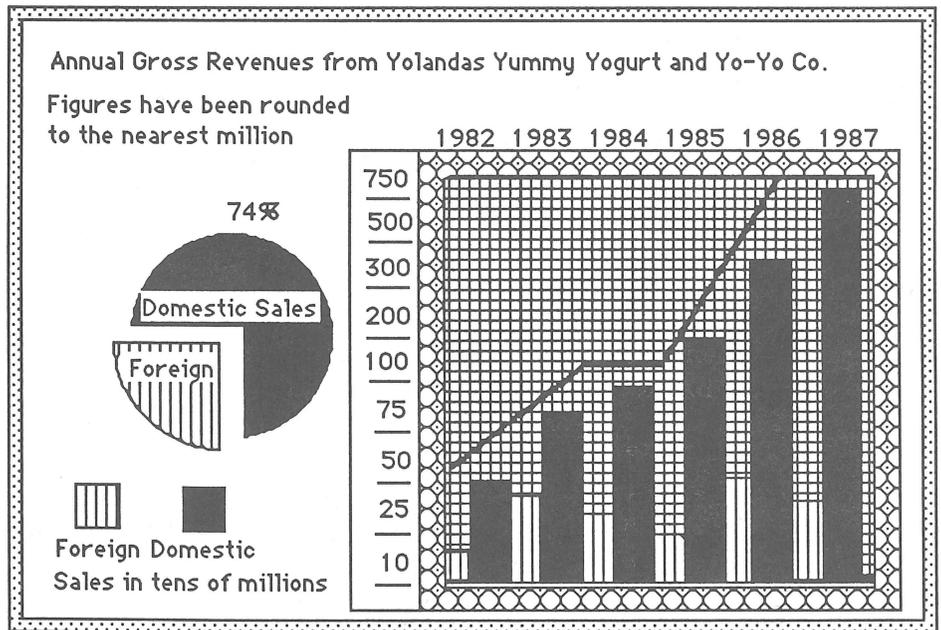


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Apple.Sauce

by Paula Sheppard

What's in store?

More variety? This month, the Ranns are back with their second Beginning /// column to give everyone who wants to read along a chance to understand telecommunications a bit better. *ON THREE* has featured telecommunications articles in the past, but this article is the first in a series designed to break down the telecommunications jargon in plain English.

The Ranns will give beginners and those who have never been introduced to the telecommunications field, insight on the differences between the various modem speeds and which one is best for each individuals needs.

Moving right along, Steven Brineaux, a new face to this magazine, but well known in the /// telecommunications world, will share his expertise on word processing by reviewing the latest word processing program for the /// in America. Originally written by an Australian company, StemSoft, StemWriter has become an overnight success with *ON THREE* customers. Steve examines the features of the program in this issue. Next month he will review the documentation and product support and give us his overall opinion.

The Ranns have introduced a new term to the /// world. Let's try to call ourselves -*monomaniacalmissionaries* for a change of pace. Read about this term in the ever-popular *Ranntings* column this month. The term was coined by Don Williams, who you'll read about in the interesting Phase III report.

Yes, the article on the Phase III report is actually being printed this month. Thanks once again goes to *ON THREE* authors, Richard and Lavona Rann. Although the article is actually appearing in the magazine four months after the conference took place, ///'ers will still be able to capture the thrill, excitement and overall atmosphere in which everything took place. The Ranns have provided some answers about the /// world's future, based on what took place at the conference. All ///'ers should read through this article at least once!

I've been saving introducing one of the best articles this issue for last! *Desktop Publishing ///* is written by John Lomartire. It is always pleasant to have someone like John to share his expertise. I know I was thrilled to read through his step by step

instructions on how to do multiple columns with AppleWriter and I'm sure others, such as user groups, will be interested in reading about the mighty /// being used for multiple columns! It will work great for any newsletter or just a change of pace in the letter-writing routine.

Au revoir

It seems as though it was just yesterday that I took the editor position at *ON THREE* magazine - a company with a computer I had never heard of. I have learned so much about the /// since then through a very helpful staff. Mainly, Tim Harrington and Terry McNeese were there to help me through the struggling days in the beginning. Thanks to Bob Consorti, Tim and Terry, I was able to make it through the tough questions asked by readers each month. Certainly, their expertise is still valued!

Now it is time for me to move on to new horizons. To start with, as you are reading this magazine, I am 1,200 miles away from sunny Southern California. I have moved back to Wyoming. Also at this time, *ON THREE* has a new editor and the magazine will start to take on a new shape with a new face. I have enjoyed each and every letter I have received from Apple ///'rs, along with the phone calls and I rank the authors in a class of their own. The authors keep this magazine going and alive. An extended thank you goes to them. Au revoir, to our French readers and goodbye to all others.

-///-///-///-

Important Announcement!

This is the one you have all been waiting for! *ON THREE* is happy to present....

The long awaited Spelling
Checker for /// E-Z Pieces!

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See Page 22 for details

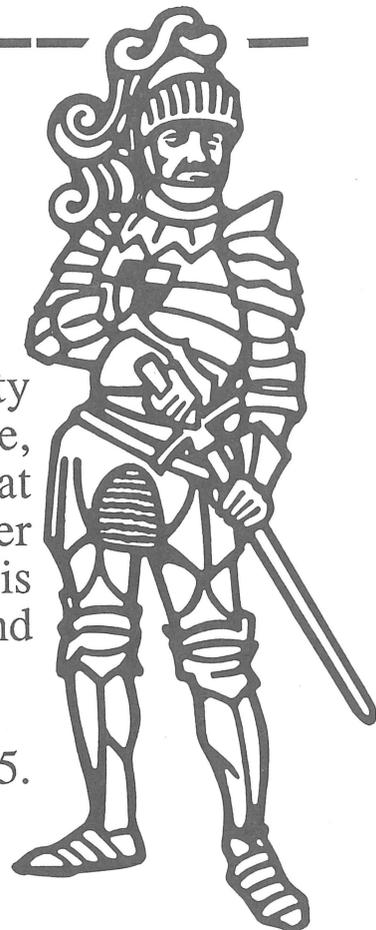
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The Beginning ///

by Richard and Lavona Rann

A closer look at communications

To talk or not to talk? Can we talk?

Data communication using a microcomputer has been around from the early days. For many, dialing up another computer was one of the first joys of owning a computer. Long before there were spreadsheet programs, word processing, and long before there was any practical reason to have a microcomputer, there was data communications. It was the link between computer enthusiasts. Today there are many practical reasons to put your computer *on-line*, anyone of which is worth the expense in software and hardware. For the Apple/// owner there is an additional reason. It is just about the only way left that one /// owner can talk directly to other /// owners and one of the few quick and easy sources of help with /// questions.

In this *Beginning ///* article and for at least one more month, we will be discussing data communications. We will discuss what hardware and software is needed along with what a user needs to know to make an educated choice in setting up a system. Next we will explain how to set up your /// to communicate, using either of two of the major packages available for the ///. Then we will present a tour of the places /// owners congregate electronically. At the end we hope that all users will know what is needed to get started, how to do it, and have good reasons for joining in the on-line /// community.

While it was one of the earliest functions for microcomputers, it is estimated that

only 25 percent of all computer owners have a modem. That percentage is now growing rapidly. It is thought that in just a few years near half of all computers owners will own modems with many more people accessing their places of work from home. Communication and the wealth of information that it can place within reach of any computer user is said to be one of the most important reasons for owning a microcomputer.

It all starts with a modem

In its most basic sense a modem is a device for converting a digital computer to analog and back to digital. It does this in order to send the binary code of a computer across a phone line. To accomplish this transmission it must convert the electronic *ons* and *offs* represented by the binary codes of "0's" and "1's" to sound, and it must do it in a

Today there are many practical reasons to put your computer *on-line*, anyone of which is worth the expense in software and hardware.

manner that another modem, at the other end of the telephone line, can reassemble into the proper binary code. The name *modem* is an acronym for this very operation of converting or modulating electronic impulses to sound and back again. Thus, the MODEM is a MOdulator DEModulator.

There are two general types of modems - acoustic, and direct line. The acoustic modem has rubber couplings on it into which you place the standard headset of a cradle telephone. It operates by creating audible sound and broadcasting it over the line much in the way a person speaks normally on a telephone. This style modem was the first type available for the microcomputers and consequently, is the least expensive. Its major drawback is that it is slow by today's standards. Modem designers found that to get greater speed and accuracy of transmission, the modem had to convert the binary signal directly to tone impulses over the phone line. This group of modems dispense with the telephone instrument completely wiring directly to the telephone line with the standard telephone connector. The reason for choosing one type over the other will be discussed in greater detail later; all that is necessary for now is to understand that both accomplish the same thing but with slightly different methods.

We humans using computers and transmitting information, do not usually have to understand the codes and the conversion process. You don't have to worry about memorizing any of the detailed information about the process, but you should be familiar with it so that you have some idea of what is happening when you have your /// *talk* to another computer. The first thing that occurs is that the modems actually work with a coding scheme. Often the computers on each end of a *communication* are not the same and store data in different ways. One thing they all have in common is binary arithmetic made up of

“0’s” and “1’s.” Starting with the basic common denominator of “0’s” and “1’s” there has to be agreement on a meaning for those symbols or no two computers could understand things that came from each other. This was solved in large part by agreement on a standard — the American Standard Code for Information Interchange once again represented by an acronym ASCII

Normally, after setting up a system to *talk* to another.. one can forget about the collection of data communications terms.

(pronounced ask’ee). There are other standards, but the ASCII standard is the one ///’rs are most likely to encounter.

While one doesn’t need to memorize the ASCII codes, a user needs to know that things are coded and that there are some special functions and terminology used in data communications. Normally, after setting up a system to *talk* to another, via a selection of software and hardware on both ends, one can forget about the collection of data communications terms. That means that if you can get someone to set up your system for you, you may be able to get along without becoming familiar with the terminology. On the other hand, you will probably find it useful to have a better idea of what is going on *behind the scenes*.

The keys of your Apple /// keyboard are assigned ASCII codes that vary by whether they are selected alone, or with the SHIFT key, the CONTROL key, or both keys. There are some special keys like the ESCAPE key that have lots of use in Apple /// programs and in telecommunications. This also has a valid ASCII code. The Apple /// Standard Device Drivers Manual, which was

originally provided with every Apple /// sold, has a full list of the keys and ASCII values. There is also a Desktop Manager module that brings up an easy to read chart of characters and their ASCII values. As one can guess, telecommunications is not the only place where ASCII values are used.

Even though the standard ASCII chart includes only 127 different values which could be coded with seven binary characters (127 converts to 111 1111 in binary), the standard ASCII format is often considered to be eight binary characters. The reason is that the eighth is reserved for what is referred to as parity checking. One doesn’t need to know how this works, but needs to know whether the computer he or she wants to call out to uses even or odd parity checking. Communications software will use this field to force every eight bit character transmitted to an even or odd binary result. This helps trap errors in transmission so that the software may resend a garbled item, or request retransmission by the other computer.

Unfortunately that is not the only variable. There is something called *word length*. While one will normally be quite safe assuming an eight bit word (ASCII character, including a parity position), most communication software will ask for a choice between seven bit and eight bit word length. The difference is not something most of us need to worry about, except to be certain that we know what is required by the system we want our /// to communicate with. We have successfully communicated with CompuServe, GENie, and the ///’s Company BBS, with eight bit words and the option “N” for no parity checking.

Local echo is a state where each character typed and transmitted is displayed on the screen. This feature is very helpful when typing in material or dealing with a host computer that does not echo back what it has received. As one can expect,

it is a variable. Some computers and their communication software *echo back* each character they receive from you, others don’t. The terminology often associated with this echo condition is *full duplex* and *half duplex*. When the receiving computer echos back each character, it is considered to be full duplex or *echo on*, and you will not want your local software to do another echo, or all characters you enter will be duplicated on your screen. GENie is the only one of the networks commonly used by lots of ///’rs that does not echo back.

Another important setting is the speed. You will be limited here by the speed limitation of your modem, the quality of your local telephone lines, and your need to have extremely high confidence

Local echo is a state where each character typed and transmitted is displayed on the screen.

in near perfect transmissions. An important concept is *Bits-Per-Second* (BPS) which is the common way of expressing the speed of a modem. Most of the time this is referred to (erroneously) as *baud* rate. Actually baud refers to rate of change rather than the actual speed. BPS is the rate at which data is transferred. To be consistent with standard practices, you will probably want to use the term *baud*, but remember that BPS and baud rate are generally used to mean the same thing. In practice 300 is the slowest rate generally used; behind that is 1200 and 2400 all the way up to 9600. Over the past few years 1200 has become the standard speed, but most public data services allow for connecting at all three speeds. 9600 is just now becoming a useful speed for some applications. While still

not generally available for use, higher speed modems are becoming more common, and it is certain higher speeds will someday be the standard.

As a general rule of thumb, a person with a good reading speed can read textual material received at 300 BPS as it scrolls across the screen. 1200 BPS, being four times faster, requires someone who is a speed reader. 2400 BPS cannot normally be read as it is received. In actuality, the rated BPS is not what you receive when communicating at a given speed. The higher the transmission speed, the more likely that other factors will actually slow down the communication process. A classic example is the use of multi-user systems such as GENie or CompuServe during the heart of the evening. The number of users on the systems at those times are quite high and the systems cannot always serve each person as quickly as

your system can take the information. Errors caught by parity checking or other checking protocols (to be covered in a later column), can also slow down the effective rate at which your computer actually gets the data.

**Errors ... can also
slow down the
effective rate at
which your computer
actually gets the data.**

Each speed has its purpose. In order to understand some of these different purposes, we need to briefly discuss what types of uses there are once the computers can communicate. The most common use by ///'rs seems to be the use of bulletin board services/areas. In this

case, you are getting text data and possibly uploading (sending to the other computer) text data as well. You may be reading it interactively (while it goes by), or just saving it to disk for later reading. On the other hand, you might be doing something that requires a lot of interaction like taking part in a conference (discussion that is happening as they say on television "live"), or other function that requires you to react to things that appear on your screen. Finally, a user might just want to be collecting large amounts of data for later use when the communication session (analogous to a telephone call) is done.

The major variable is the amount of interaction required. At the higher speeds the computer on the other end will spend relatively a lot of time waiting for the response. It doesn't just get a continual stream of data, or send a continual stream. As much as we hate to

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think of it, the human having to evaluate and send a response, is normally a slow portion of the process. Most services, charge a premium for using faster speeds, and higher speed modems certainly cost more. It would actually cost more to use a higher speed if everything were equal. On the other hand if a user is doing something with very little interaction, like downloading (moving from one computer to another), then the faster the better, regardless of the premium charges. This assumes like most economics professors that *all other things are equal*. As a rule of thumb, use 300 or 1200 BPS (baud) for highly interactive things, and higher speeds, if you have access to them, for strictly computer to computer communications (without you in the middle).

When the two modems are connecting one computer with another computer they transmit two separate carrier signals. These signals are at different frequencies and are the pathways which the data is sent back and forth between the modems. A modem will receive on one frequency and send on the other. This way the modems will not cross data. Also if a carrier stops broadcasting it usually means that one modem has broken the connection. You will recognize carrier signals after listening in a few times while the connection is being made between your modem and the one on the other end. **Caution:** *Don't pick up a phone on the same line to listen in!*

It is a good way to introduce *garbage* into what either computer receives and mess up your entire session.

A special low pitched signal can be sent from one modem to the other to stop the flow of data. This is called a *break*, and is used in many ways. Most commonly, it is used to momentarily stop the flow of data at a point. Again, a user is often asked what to use to indicate a break. The *///* doesn't have a break key, so you will have to depend on your communications program to give you an option to meet this need.

The final items that normally require a little understanding for setup are *Send Line Feed After Carriage Return* and terminal settings. Just like the differences between other options, there are two general ways of handling end of line conditions. Some computers require a line feed character after each carriage return character and others don't. Most software defaults to Yes.

Terminal settings have to do with choice of screen width, number of lines per screen, and other special terminal options that may be available to users of the system you are communicating with, or via your communications software. Normally, the default terminal emulation is ASCII. That means that

your *///* is not really working as a specific type of terminal, but as a general ASCII communications device. Many systems support VT52 and VT100 protocols. Which are standards developed by DEC for their VT52 and VT100 terminals. If you don't have reason to know otherwise, just use ASCII.

One will, however, need to know about *wraparound*. If something is sent to your screen that is wider than the number of characters your screen can print, do you want it to disappear off the edge of the screen, or automatically move onto another line on the screen? That is the simple question of wraparound. Normally, automatic wraparound makes sense. The one exception we have found is if we are also *recording* or saving the data to disk and we want to be able to print it as it came in. This was a major issue for us when we first got our *///* and communicated with a DEC machine with 132 character screen capabilities. Formatted 132 character reports don't look too great when an extra line break is added after 80 characters.

In the next month or two, we will cover how to select and set up a modem, an introduction to Access *///* and the Communications Manager and what reasons you might want to use your *///* for communications. We will cover a brief introduction to the *///* section on CompuServe, the *///*'s Company Bulletin Board and a little about GENie.

-///-///-///-

Special Combination Offer

There's a great deal more you can do with *ON THREE's* O'Clock if you have the *Desktop Manager*. Wherever you want, you can display the current date and time on the screen with one keypress. Since this is a background function, you can be word processing with AppleWriter or entering data in VisiCalc and with one keystroke you can obtain updated time information. In addition, you can use the *Desktop Manager's* appointment calendar to enter appointments or messages. Like magic, no matter what you are doing, the system will alert you of the appointment.

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Desktop Manager/ ON THREE O'Clock Combo
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Desktop Publishing ///

by John Lomartire

Printing textfiles in columns

Word processing is one of the most powerful tools of computer software. It may also be the most widely used. Most of the time, a user is interested in producing typed output that has a line of text across the entire page, but there are also many instances where the text output is desired in columnar form. In general, word processing software does not allow this kind of printout.

Are we then doomed to non-columnar pages from word processing files? Not necessarily. With a bit of planning of the layout, and the use of the BASIC program given here, multiple columns of text per page can be produced. In this article, all directions refer to AppleWriter and Business BASIC software, but with suitable alterations, the concepts should be applicable to any other word processing/BASIC combination.

Start by entering the entire text in stan-

With a bit of planning of the layout, and the use of the BASIC program given here, multiple columns of text per page can be produced.

dard word processing fashion. Next, on a piece of paper, layout the desired printing format. This starts with noting the printer character spacing, the entire paper width in terms of characters, the desired margin spacing, and spacing

between the columns.

For example:

With a printer spacing of 12 characters per inch, an 8 1/2 inch wide sheet holds 102 characters. If each sheet is to hold two columns, each 35 characters wide, with left and right margins 14 characters wide, the spacing between the two columns is 4 characters wide. (This arrangement totals 102 characters.)

	14		35		4		35		14	
	margin		text		space		text		margin	

Go into AppleWriter, and with a blank screen being displayed on the monitor, save the screen (nothing) to disk with an appropriate file name, for example, .D2/FORMED.TEXT, to put the file name on a disk.

Press CONTROL-P ? and set up these printer control commands:

```
LMO
RM35 {The desired column width}
CR0 {No line feed}
PD.D2/FORMED.TEXT {Use selected filename}
```

Also set PI and PL high enough to avoid pagination while printing to disk.

Using the command CONTROL-P NP the original text is stored on disk under the selected file name as a textfile with the proper column width.

The next step is to count how many lines there are in the new text arrangement. An easy way to do this is to press CONTROL-P ? and set up these printer control commands:

```
PI10 {Shows page break every 10 lines}
PL20 {A 10 line space between pages}
PD.CONSOLE {Look at layout on screen}
```

By using CONTROL-P NP and counting the number of 10 line pages, plus the number of lines on the last page, a total line count is obtained.

Once the total number of lines have been counted, lay out the number of multi-column pages are needed to hold this entire amount of text. For example, if the total lines amount to 35, and there are to be two columns of 10 lines per column on each sheet, then two sheets will be needed. Two 10-line columns mean 20 lines per sheet,

so on the second sheet, the current arrangement is five lines short.

Load .D2/FORMED.TEXT and add five more.....RETURNS.....to bring the total number of lines in the text to 40. SAVE THIS MODIFICATION as .D2/FORMED.TEXT (or any other suitable name).

Now we go to the BASIC program COL.PRT.OUT.

SET UP THE PRINTER. Have it activated and ready to receive text from the computer.

LOAD and RUN COL.PRT.OUT. Respond to screen prompts. Please see Example 1.

After this information has been entered, the program will produce the desired two column print-out of page 1. Change paper in the printer and hit any key to get the similar two column print-out for page two.

The program, as written, is for double column output on two separate sheets. However, it is readily apparent that with small changes in the BASIC program any number of columns can be printed out on any number of sheets.

The Business BASIC program (COL.PRT.OUT) that produces multicolumn output per sheet is shown in Figure 1.

If more than two columns per sheet are desired, change lines 1120 and 2020.

In line 2000, the number 2 is equal to the (column number of the left hand column on sheet 2) minus 1. For example, for sheet #2 the third column is printed on the left side (first two

Example 1

Enter FULL filename of textfile: .D2/FORMED.TEXT

Enter number of lines per page: 10

Enter number of pages: 2

Enter the total number of lines to be printed: 40

Enter the number of spaces between columns: 4

Enter the number of spaces for the margins.

Press the spacebar the required number of times: [Press spacebar 14 times,.....then RETURN]

Enter how many characters are allowed per column: 35

Figure 1

```
100 HOME
136 :
138 :
140 REM VARIABLE LIST
150 REM NAME$ is full name of file to be read
151 REM LINES% is the number of lines per page (one column)
152 REM PAGE% is number of pages to be printed (double columns) per page
153 REM COL.SP% is the number of spaces between columns
154 REM MARG$ is the number of spaces for the margins, left and right equal
155 REM MAXLINE% is the TOTAL number of lines in the whole file
156 REM COLLECT is a FOR/NEXT variable
157 REM ROWLINE$(COLLECT) is the line by line reading of the file
158 REM KEY$ is a get-key
159 REM CHAR.LINE% is the number of characters per column
160 REM T2% is the tab spacing to the second column
196 :
198 :
200 INPUT"Enter FULL filename of textfile: ";NAME$
210 PRINT:PRINT
220 INPUT"Enter number of lines per page: ";LINES%
230 PRINT:PRINT
240 INPUT"Enter the number of pages: ";PAGES%
245 PRINT:PRINT
250 INPUT"Enter the total number of lines to be printed: ";MAXLINE%
255 DIM ROWLINE$(MAXLINE%/2)
260 PRINT:PRINT
280 INPUT"Enter the number of spaces between columns: ";COL.SP%
290 PRINT:PRINT
300 PRINT"Enter the number of spaces for the margins."
320 INPUT"Press the spacebar the required number of times: ";MARG$
330 MARG%=LEN(MARG$):REM Convert string to integer
```

(continuation of Figure 1)

```
350 PRINT:PRINT
400 INPUT"Enter how many characters are allowed per column: ";CHAR.LINE%
480 T2%=MARG%+CHAR.LINE%+COL.SP%
490 HOME
500 OPEN#1,NAME$
560 FOR COLLECT=1 TO MAXLINE%
580 INPUT#1;ROWLINE$(COLLECT)
600 NEXT
1000 REM PRINTING OUT THE FIRST PAGE
1020 OPEN#1,".PRINTER"
1040 OUTPUT#1
1100 FOR TYPO=1 TO LINES%
1120 PRINT MARG$;ROWLINE$(TYPO);TAB(T2%);ROWLINE$(TYPO+LINES%)
1140 NEXT TYPO
1500 OPEN#2,".CONSOLE"
1520 PRINT#2;"Change paper in printer. Hit any key when ready.":GET KEY$
2000 FOR TYPO=(2*LINES%+1) TO (2*LINES%+LINES%)
2020 PRINT MARG$;ROWLINE$(TYPO);TAB(T2%);ROWLINE$(TYPO+LINES%)
2040 NEXT
5000 CLOSE:END
```

on sheet 1), so $3-1=2$. If we were to print up to five pages, the left hand column on the fifth page would be #9 so the factor would be $9-1$, or 8. This same calculation holds for other multi-column arrangement factors.

Figure 2 shows the text as entered into the word processor. Figures 3 and 4 show the printed output (without margins) of this same text in two 10-line columns on two separate sheets.

I would welcome your trying this procedure and letting me know of any improvements that you have made. Obviously, headers and footers could be put into the program so as to appear on each page, if desired. Other advances could also be included.

Figure 3

Apple Business BASIC allows external subroutines (assembly-language) procedures or functions that are not part of BASIC) to be loaded and executed from BASIC programs. You can use both external subroutines that you write, and those included with your Apple. For example, there is a library of special purpose	subroutines for displaying graphics supplied with Apple Business BASIC, described in the appendix on the invokable Graphics Module, that can be used by your programs.
	If you catalog your Business BASIC master diskette, you will see some files with the extension ".INV". These are external routines.

-///-///-///-



Figure 2

Apple Business BASIC allows external subroutines (assembly-language) procedures or functions that are not part of BASIC) to be loaded and executed from BASIC programs. You can use both external subroutines that you write, and those included with your Apple. For example, there is a library of special purpose subroutines for displaying graphics supplied with Apple Business BASIC, described in the appendix on the invokable Graphics Module, that can be used by your programs.

If you catalog your Business BASIC master diskette, you will see some files with the extension ".INV". These are external routines. There are two other groups of related files that you should be aware of, both having the same name as external files: One with the extension ".DOC" (for documentation), and one with no extension, which are demonstration programs.

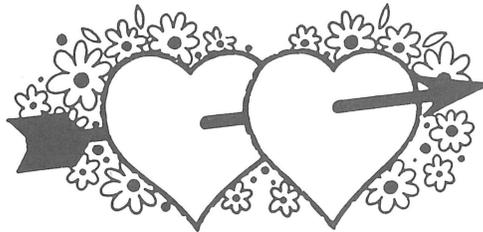
If you run a program with the .DOC extension, it will describe the use of its associated external routines. The program file with no extension demonstrates program use of its associated external routine.

Figure 4

There's two other groups of related files that you should be aware of, both having the same name as external files: One with the extension ".DOC" (for documentation), and one with no extension, which are demonstration programs.

extension, it will describe the use of its associated external routines. The program file with no extension demonstrates program use of its associated external routine.

If you run a program with the .DOC



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StemWriter ///

by Steven Brineaux

The WYSIWYG word processor

What does an Apple /// user get when combining an unusually powerful text formatter, a fast, feature-packed text editor, and a highly intuitive, easily-learned command structure? A user gets a surprising word processor by the name of *StemWriter* — written nearly four years ago in Australia and virtually unknown until *ON THREE* recently decided to assume marketing for the package.

Features

In computer jargon, StemWriter would be classified as a *WYSIWYG* (pronounced “whizzy-wig”) word processor; WYSIWYG is an acronym for “what-you-see-is-what-you-get”. In human terms, this means that StemWriter shows you on-screen exactly what the document will look like when it is printed on paper — before it is printed. This feature is extremely important in a word processing program since it can save one from frustration, paper and time-consuming surprises while trying to get a certain paragraph all on a single page, or trying to place footnotes “just-right.” Many word processing packages promise WYSIWYG in one form or another, but few deliver on the promise as well as StemWriter: subscripted, superscripted, overstruck, underlined and boldfaced text, as well as footnotes, line and page breaks are all accurately displayed on the screen. StemWriter can even display special punctuation symbols or foreign-language characters on-screen (and print them too, if your printer is up to it), making it suitable for technical word processing applications.

The program operates on documents and file; which can be letters, memos, reports, lists, tables — virtually any textual material typed into the computer. The difference between the two is that files are *named* (using SOS conventions) and reside on disk, while documents are *numbered* and reside (partially or entirely) *in memory*; while either documents or files can be formatted, only documents can be edited. StemWriter allows up to eight documents to be in memory at any one time, any two of which can be displayed simultaneously. Only one document however, can be actively edited at a time.

Switching between documents in memory is accomplished via a menu selection. The only limits to the size of documents StemWriter can create are those imposed by the memory size and disk storage capacity of your Apple. With a 256K machine, roughly 160K is available for document workspace; on a 512K machine, almost 420K is available. If you wish to work with documents larger than the free memory space on your machine permits, StemWriter allows cutting documents into smaller portions which can be independently manipulated. A document can contain up to 65,535 (64K) segments, each of which can be up to the free memory space of your computer in size; using this technique, StemWriter can theoretically create documents larger than the 16mb file size limit imposed by SOS. We did not test this particular limit.

Although the very thought of 16mb word processing documents is heady

indeed, the real value of segmented files is not in the ability to create ridiculously large documents. StemWriter uses segmented files to tackle complex functions, like merging personalized addressee information into form letters, creating mailing labels, and manipulating blocks of text in very database-like ways (sorting and selecting information based on simple conditional tests — *and, or, not*).

The editor normally displays a single document in a window 22 lines deep by

Switching between documents in memory is accomplished via a menu selection.

any number of columns up to 240 wide. Using simple commands, one may split the display area into two equally-sized vertically-stacked windows (each nine lines deep). In split-screen mode, each window can display the same or different documents. While the row-depth of the display window is fixed, the column width can be changed at any time. When the document width is greater than 80 columns, the window jumps horizontally in 40-column increments as the cursor is moved beyond the current window edge.

StemWriter uses the numeric keypad and OPEN-APPLE key to invoke command prompts and menus. Using the arrow, RETURN, and command keys, the cursor can be moved in character, word, line, and paragraph increments.

There are also direct commands to jump to the beginning or end of the document. Additionally, the TAB key leaps the cursor forward by a configurable number of columns, and the ESCAPE key is a general-purpose *cancel* command, useful for changing your mind about operations in progress. There isn't, however, any general-purpose *undo* command to reverse the effect of editing operations. For Apple /// plus users, the DELETE key is supported, although in a non-standard way: unlike most programs which interpret DELETE as a destructive backspace, StemWriter uses DELETE to erase the character *under* the cursor — similar to the action of OPEN-APPLE RIGHT ARROW in the System Utilities program. Also, StemWriter distinguishes between the ENTER and the RETURN keys. RETURN is treated as an absolute *carriage return/line feed* during text entry and displays unwanted control characters in menu prompts; ENTER is treated as a request to display the amount of free memory remaining while in the text editor and as a *carry-out the displayed command* key in menu prompts.

In addition to providing the usual copy, delete, and move commands for manipulating blocks of text, StemWriter ups the ante by allowing copy, delete and move to operate on *columns* of text. This feature alone is worth the price of admission for those who have struggled with integrating lists or tables into documents using conventional /// word processors. An additional bonus is the ability to align text by a particular character, for example, a decimal point embedded in a number. Equipped with character alignment, one can quickly enter a group of numbers without regard to correct format;

```
65.994
 1.73
4109.2
212.5
 .997
```

and then painlessly reformat them so that all the numbers line up with respect to the decimal point:

```
65.994
 1.73
4109.2
212.5
 .997
```

simply by telling StemWriter to align the column and then passing the cursor up or down the column of numbers.

In addition to the unusual ability to treat text as discrete blocks or columns, StemWriter also allows text to be defined as *special fields*, which are afforded special handling by the editor/formatter. Although the concept sounds a bit abstract, special fields are nothing more than text with specific attributes that control their appearance; underlined text is one kind of *special field*. In all, StemWriter defines eight special

Reserved fields can be used to reserve white space on a page for a photograph or other addition after the document has been printed.

fields: underline, boldface, footnote, protected, comment, classified comment, local and reserved. *Underline*, *boldface* and *footnote* text fields are self-explanatory. Protected text cannot be changed by standard editing commands, nor is it affected by document formatting; as such, it is ideal for creating the boilerplate portions of form letters. *Comment* text is ignored when documents are formatted or printed; commented text appears only in the editor and is useful — recommended — for noting the document number, SOS file name, or other vital statistics. *Classified* comments are special-purpose

comment fields used by StemWriter to create form letters and manipulate text inside segmented files. *Local* fields are used to alter document format settings — the margins or the paragraph indent size, for example — of particular portions of a document without disturbing the overall document format settings. *Reserved* fields are a special case of local field which forces the text formatter to place the entire contents of the reserved field on a single page. They can be used to reserve white space on a page for a photograph or other addition after the document has been printed.

StemWriter also has a simple key macro facility referred to as *user keys* in the documentation. A user key is one of the main keyboard numeric keys (0-9) used in conjunction with the OPEN-APPLE modifier key. When activated, a user key types out a string of text or StemWriter commands just as if you had been typing at the keyboard. Definitions for individual user keys are limited to 31 characters in length; however, user keys may invoke one another, thereby providing for definitions nearly 300 characters in size! By default, user key ZERO [0] is defined as the current system date in the format "February 7, 1988." Note the period appended to the date.

The command structure is logical and easy, which is fortunate since StemWriter lacks any kind of on-line help facility. Commands are initiated by pressing a key on the numeric keypad, which displays a command prompt on screen. Below is a sample of a command line prompt, in this case from the Find/Replace command:

```
Srch :: Dir [>] : Count [1 ] : Bound [Doc. ] :
Case [Exact] : Mode [Lit ]
```

Sub-option parameters are adjusted by first highlighting the bracketed default value using the right and left-arrow keys. Once selected, the default value is changed by using the UP and DOWN

ARROW keys to scroll through the allowable range of values; underlined values are special. these values are changed by directly overtyping them with a new value. StemWriter will beep and refuse to accept invalid entries in an underlined sub-option field. *ON THREE* refers to this command structure as *point and see* in its advertising. Although, it is quite a departure from normal Apple interfaces, it is quickly-learned and works well.

Another unusual aspect of StemWriter is that it tries to eliminate the disparate *insert* and *replace* text entry modes in other word processors by providing a uniform text entry environment. A noble aspiration, but a failed one. StemWriter's *uniform text entry environment* is *replace mode*, wherein typed text overwrites whatever existed previously, whether the previous contents of the window be blank spaces or the Gettysburg Address. There is also an

The *save* command also optionally creates backup versions of documents to minimize the possibility that valuable files will be overwritten.

insert mode, which is toggled into action by the keypad '0' key.

The program includes a SOS utilities menu featuring a limited number of SOS commands: file rename and delete, create subdirectory, list directory, and list volumes (not devices, just disk volumes) on line. All pathname entries are limited to about 75 characters in length, and illegal entries (pathname syntax errors) are politely trapped.

The editor's load and save commands feature several unique extensions. One may work with whole or segmented

documents, and non-contiguous documents segments can be loaded or saved. Documents can be optionally encrypted during save operations. *Encrypted documents* are encoded using a keyboard-entered password. Once encrypted, StemWriter will not delete, rename, or load the file without the correct password being supplied. Although encrypted documents are stored as standard SOS text files, they cannot be gainfully accessed by other application programs because they contain randomized ASCII characters. If the password is forgotten, there is no provision for retrieving the file's contents. I am no cryptologist, but I'd say StemWriter's encryption facility offers a good degree of security. The *save* command also optionally creates backup versions of documents to minimize the possibility that valuable files will be overwritten.

Like the editor, StemWriter's text formatter is fast and full of unique and powerful features. Both documents or files can be formatted, and formatted text can be previewed on screen or saved to disk for later printing. Three levels of hyphenation control are possible: manual, automatic and none. StemWriter's hyphenation rules are based solely on the number of characters which will fit on a given line. Consideration is not given to phonetics or proper grammar. In *manual* operation, each word encountered during formatting as a candidate for hyphenation is presented with the maximum number of characters which fit in the remaining space on the line indicated; using the cursor keys, a user can mark the point (preceding the absolute maximum breakpoint) at which hyphenation is to occur. In *automatic* operation, StemWriter splits words without giving you the chance to intervene. The third hyphenation option, none, is precisely that.

Other formatting/printing capabilities of special interest include numbering of not only pages but *lines* as well. It offers

the ability to format only specific portions of documents; support for COLOR printers, proportional-spacing printers, and a real stand-out: the ability to format text into up to four columns per page, with control over the inter-column margin size! If that's not enough, StemWriter provides for sending command sequences to control hardware print spoolers and is even aware of cut-sheet feeders. Even without additional hardware or software, StemWriter can print one document while you work on another — making smart use of the *///*'s interrupt-driven nature and .CONSOLE typeahead. Somebody pinch me, this *is* a dream! The only fault I found was the surprising omission of support for italic printing (Italics are a standard feature of Epson and other printers).

There is a separate utility disk included which handles a number of useful if somewhat less-frequently used functions: creating mailing labels; counting words and sentences in a document file; sorting, copying, and merging segmented documents; performing logical selections on the contents of segmented documents (using classified comment fields); formatting disk volumes; converting a StemWriter document file into an ordinary SOS Pascal or ASCII text file; and configuring StemWriter for use in your specific hardware environment. Like the main program, the utility functions generally work well and generally work quickly — and there is still no on-line help. The utilities are menu-driven, though the interface is more *///*-like than in the main program.

The configuration portion of the utilities bears a good deal of examination, since proper configuration is vital in exploiting the full power of StemWriter. It allows the command keys, printer attributes, paper sizes, character sets, and user-defined keys to be changed.

StemWriter ///
continued on page 31

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Memory Board Insurance!

ON THREE is now issuing purchasers of the **ON THREE** 512K memory boards, an insurance policy that offers the ultimate in protection and peace of mind. Whenever you bought your 512K memory board, you will be eligible for the is valuable protection.

ON THREE has always given a full, unconditional 90 day warranty on its 512K memory upgrade, including repair, replacement, parts and technical assistance. After the original 90 day warranty has expired, **ON THREE** now offers all registered owners of **ON THREE** 512K memory upgrades an insurance policy that will cover, in the event of failure of the 512K memory upgrade, the immediate shipment of a replacement 512K memory board. This insurance also includes free parts replacement and unlimited technical assistance (pertaining to the 512K memory upgrade) for the life of the policy.

When you purchase **ON THREE's** 512K memory board insurance at the same time you buy the **ON THREE** 512K memory upgrade(s), or if you purchase the memory board insurance within the 10 day grace period allowed after you have purchased and received the board(s), the yearly premium is \$50 per year for the first 512K board, \$40 per year for the second board and \$35 per year for each additional board purchased. When you purchase insurance at the same time you purchase the upgrade, your 512K warranty is extended from three months to a full 15 months of protection.

Any original registered owner of an **ON THREE** 512K memory board is also eligible to purchase this valuable protection. When you purchase the **ON THREE** 512K memory board insurance at any time after the elapse of the 10 day grace period (as described in the preceding paragraph) the cost for a full year's protection is \$75 per year for the first board, \$65 for the second board, \$50 for the third board and \$40 per year for each additional **ON THREE** 512K memory boards insured.

To apply for this valuable protection, send your name, address, telephone number, number of boards you want insured, date(s) of purchase, where the boards where purchased from, and your check, money order or VISA, MC or AE number and expiration date to **ON THREE**. An official **ON THREE** Insurance certificate will be issued in your name and mailed to you immediately upon receipt of payment.

512K Memory Upgrade

We know that there are still 90,000+ Apple ///'s out there that have not upgraded to 512K of memory and we are committed to letting all Apple /// owners enjoy the benefits of an enhanced Apple ///.

For larger spreadsheets, data bases, word processing documents and faster program utilization, you can't lose! If you have any questions about the upgrade, feel free to call **ON THREE**.

The 512K Memory Upgrade includes:

- Complete installation and guide for use.
- Ultra-fast RAMDisk driver with demonstration programs.
- System Utilities 1.2 which permits larger driver files.
- 512K Upgrade utility which updates your programs.
- Industry leading three month warranty!
- Free technical support on the 512K upgrade during the warranty period.
- State-of-the-art 256K memory chips.
- 512K Memory Confidence Program

\$354 plus \$10 s/h

Send in your old 256K board for \$35 software credit toward your next purchase. Installation is \$50! Available by appointment only.

256K Memory Upgrade

If you don't want to upgrade your Apple /// all the way to 512K, but want more memory for your ///, order the 256K Memory Upgrade today! It's specially priced at only \$89 plus \$10 s/h. Hurry, supplies are limited.

With a 256K equipped Apple ///, you will be able to use the newer programs that require a minimum of 256K. Programs like Selector ///, Catalyst, Draw ON, The Desktop Manager, Lazarus and more! The price of the 256K Memory Upgrade may never be this low again. If you decide that you want to upgrade to 512K, we even offer a generous rebate on your 256K board.

The 256K Memory Upgrade includes:

- Complete installation and guide for use. Industry leading three month warranty!
- Free technical support on the 256K upgraded during warranty period.
- Apple /// 256K memory board.
- 256K Memory Confidence Program

\$89 plus \$10 s/h
Order today!

Ranntings

by Richard and Lavona Rann

Monomaniacal Missionaries

Not too long ago we took a short trip which meant that we were away from home and our computers for awhile. While the trip was interesting, even fun; a strange sense of loss began to creep into our days. Once analyzed, its cause was identified. Our computers were somehow reaching out across the miles to us and calling us back. Since we both use computers to do work, the computers were part and parcel of the very things we were escaping. This was a basis for some intense discussion. Was our response to being away from our computers the symptoms of an addiction? We've already admitted to looking at computer stores while on trips away from home. Was it possible that computer usage, like alcohol consumption, had a level of use that could overwhelm an individual's common sense and draw them further and further into some form of substance abuse?

Before we arrived at an answer we met a man who gave us another piece of the puzzle. His name is Don Williams, and he is a longtime resident in the land of microcomputers. He sports an Apple five-year pin even though he is no longer an Apple employee. For some 15 years before moving to Apple, he worked for Big Blue. After he left the long, gray-pinstripe line of upstate New York he became very involved with Apples. It became more than a job. He is now known for many things, including having authored Microsoft Works for the Mac. Don spoke of a subset of Apple users as, *Monomaniacal Missionaries*.

That made us stop and think. Aside for the fact that written out on paper the phrase looks like a disease, and is cer-

tain to send many people to their dictionaries for enlightenment, his positive use of the phrase compelled us to try it on and see if it fit. Setting aside the word *monomaniacal* for the moment, were we missionaries? You bet. We couldn't begin to count the number of times we have told people of the strengths of the Apple III, and the benefits of using almost any Apple. A parallel holds with religious missionaries. We have found something that we believe is a good thing, and want others to be able to benefit from it as well. Although we are used to the term *missionary* being used for religion, we hadn't thought of its broader use. New car owners normally become *missionaries* (sometimes, in the case of a *lemon*, missionaries against rather than) for a brand of car. Thus, so many surveys of new owners to get statistics for advertisements. So, at least as far as we are concerned, the word *missionary* is not a bad fit.

Now, how about the word *monomaniacal*. Unfortunately our dictionary says that its root is *monomania* - a mental disorder in which the patient is irrationally locked onto one subject to the exclusion of everything else. Oops, this sounds more like addiction. Wait - don't leave just when it's getting interesting. It may not be as bad as it sounds, and it may apply to more of us than one would think.

First, let's see if can be generally, not clinically, applied in ways that are not terribly negative in their connotations. Then we will come back to see if there is a *monomaniacal* element to our user community. The best example we found was new parents and grandpar-

ents. It is rare to find a new parent or grandparent that doesn't have pictures handy and stories to tell about the new child. If conversation falls to an idle in a social setting, these people will often steer discussion into topics that will foster comments about the child. If they are hesitant to raise the topic, their enthusiasm and often joy, when others lead conversation into the topic will lead to the same result in the long run. Unless it is taken to an extreme, which we suppose would be the clinical use of the

Our computers were somehow reaching out across the miles to us and calling us back.

word *monomaniacal*, it is not negative. It is quite human, and healthy, for parents and grandparents to share their joy and experience with others, especially other parents and grandparents.

Let's get back to computers. Do we have a tendency to steer idle conversations into computer topics? Do we enjoy getting together with others that have similar interests? Ask yourself what takes place at the average user group meeting or better yet, a convention of Apple users? Don Williams was correct in this view, we are *monomaniacal*, but hopefully not in a clinical sense. We have found our Apples to be an important part of our world at this time and place. Most of us do not let computers dominate our lives, but we do have many times when our thoughts are filled with Apples. We are willing to tell anyone who will listen about our computers. If that makes us *monomaniacal*

missionaries, that is just fine with us.

This is far from being an unrecognized condition. In much the manner of the big auto companies, Apple Computer

Do we have a tendency to steer idle conversations into computer topics?

recognizes and effectively uses this natural human condition. The company uses the zeal of its customers to promote new customers. One obvious example is the commercial that has the viewer

looking over the shoulders of two executives as they watch people (pronounced Apple missionaries,) carrying their Macs to work. Apple has always recognized and counted heavily on *word from the converted* to help sell its products. This stems in part from the roots of Apple, and the Homebrew Computer Club experience.

Recently Jean Louis Gasee referred to desktop publishing as a *Trojan niche*, alluding to Homer's epic poem about the Trojan horse and the fall of Troy. In Gasee's meaning, desktop publishing served to get a handful of Apple Computer's missionaries into the fortress of the Fortune 500. Here they did

what all missionaries do - began converting the natives to Macintosh believers.

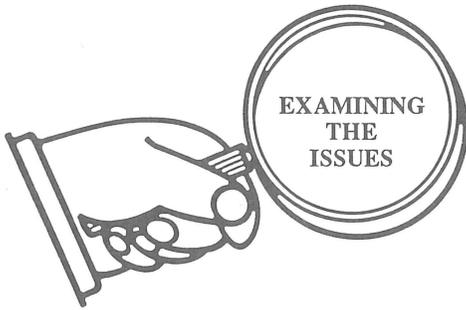
What does all this have to do with us missing our computers when we were on vacation? A lot. Like wristwatches, and for some people, televisions, our computers have become part of our every day lives. We'll leave the *why* for another column, but the *what* is fairly obvious to us now that we've looked at it. For other missionaries out there, welcome to the club. We always knew that we had a lot in common with each other, now we have a name for it.

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Apple /// User Groups

State or Country	Name of Group	Address	City	Zip	Phone
California	Sacramento Apple /// User Group	1433 Elsdon Circle	Carmichael	95608	(916)482-6660
	Orange County Apple /// User Group	22501 Eloise Avenue	El Toro	92630	
	LA-So. Bay Apple /// User Group	P.O. Box 432	Redondo Beach	90277	(213)316-7738
	Apple /// Users of Northern Calif.	220 Redwood Highway #184	Mill Valley	94941	
	International AppleCore Apple /// SIG	908 George St.	Santa Clara	95054	(408)727-7652
Canada	Apple ///rs Unanimous	732 Timor Court	San Jose	95127	
	Apple B.C. Computer Society				
Colorado	Apple /// SIG	P.O. Box 80569	Burbaby, BC	V5H3X9	
	The Astronic Club (Ontario)	1453 Highbush Trail	Pickering, Ont.	L1V1N6	
Connecticut	Colorado Apple /// User Group	P.O. Box 3155	Englewood	80112	
	Apple /// Society of South Conn.	34 Burr School Road	Westport	06880	(203) 226-4198
Florida	Sarasota Apple /// User Group				
	c/o Computer Center	909 S. Tamiami Trail	Nokomis	33555	(813) 484-0421
Georgia	Atlanta /// Society	385 Saddle Lake Road	Roswell	30076	(404) 992-3130
	TAU c/o Lavona Rann	1113 Wheaton Oaks Drive	Wheaton	60187	(312) 665-6319
Illinois	Kansas City Apple Users Group	5533 Granada	Roeland Park	66205	(913) 262-3355
	So. Maine Apple Users Group	Casco St.	Freeport	04033	(207) 865-4761 Exten. 2249
Maryland	Apple /// SIG Chairman				
	Washington Apple Pi	8227 Woodmont Ave. #201	Bethesda	20814	(301) 654-8060
Minnesota	Minnesota Apple Corps User Group	P.O. Box 796	Hopkins	55343	
	North Jersey Apple /// Users Group				
New Jersey	c/o Roger T. Richardson	P.O. Box 251	Allamuchy	07820	(201) 852-7710
	North Carolina Apple /// User Group	2609 North Duke St. #103	Durham	27704	
No. Carolina	Cincinnati Apple /// User Group	5242 Horizonvue Drive	Cincinnati	45239	(513) 542-7146
	Apple Dayton - Apple /// SIG	P.O. Box 1666	Fairborn	45324	(513) 879-5895
Ohio	Oregon Apple /// Users	1001 S. W. 5th Ave. #2000	Portland	97204	(503) 645-6789
	Oregon Apple /// Users Belgium/Netherlands				
Oregon Overseas	c/o R. Van der Straeten,				
	Vestinglaan 492580	Sint-katel ljne-Waver	Belgium	(015) 205328	
	Apple User Group Europe e.V.	Box 11 01 69 D-4200	W. Germany	0049-6195-73917	
		Oberhausen 11			
	Apple /// User Group Belgium/Netherlands				
	c/o J. Woreshofer	Ganzerikweerd 22	Netherlands	(043) 611704	
	Le Club Apple	NI-6229 TG Maastricht			
		43 Avenue, de la Grande-Armee	Paris, France	75116	
	Apple /// User Group	P.O. Box 42	Duffy A.C.T.	2611	
	c/o Canberra Accounting Services		Australia		
Texas	Apple Corps of Dallas				
	Apple /// SIG	P.O. Box 5537	Richardson	75080	
	River City Apple Corps /// SIG	P.O. Box 13349	Austin	78711	(512) 454-9962 (713) 480-5690
	Houston Area Apple Users Group				or 974-5153
Virginia	(Apple /// Division)	P.O. Box 610150	Houston	77063	(804) 642-5655
	Charlotteville Apple /// User Group	216 Turkey Ridge Road	Charlotteville	22901	(804) 642-5655 898-3500#2671
	Greater Tidewater				
	Apple /// User Group	Route 2, Box 216	Hayes	23072	
	Apple THREE Group International				
	c/o Joseph Dobrowski	P.O. Box 913	Langley, AFB	23665	(804) 865-7520

If you wish to meet other Apple /// owners and users and exchange ideas, contact one of the user groups listed above.



One, Two, /// Forum

AppleWriter

I use an Apple /// computer with Quick-File floppy and AppleWriter /// programs. The copyright on my disk is dated 1981-1982, Paul Lutus. It also says 1981-82, Apple Computer. I would like to get a complete manual for using this AppleWriter program. I only have the first chapter of the existing manual. Of course, this is inadequate for all procedures.

Please let me know if you still have such a manual. I realize that this one is rather old but I would appreciate it if one could be obtained.

Arthaya Finley,
Cincinnati, Ohio

We sell the AppleWriter program that you mentioned. The cost is \$99 plus \$3 s/h. However, we do not sell any computer manuals separately from their respective programs. All of our software is new and in its original packaging.

Sometimes we receive used software and manuals from people selling their systems. These are marked down drastically and they do not last long on our shelves. Everything we sell is listed in our catalogs. I have enclosed our latest catalog and have put your company on our mailing list.

Everything we sell is covered by warranty and we provide service and customer support during the 90 day warranty period. There are no returns on software.

Dead ///?

I used to have *ON THREE* magazine at my old address in New York and since then, I have moved to New Jersey. My son has recently sent me some mail from you and I have some questions. I am particularly interested in your 512K memory upgrade and its price. Also I would like to know if my /// can be upgraded to a ///e with a 65C02 chip and whatever else. I am tired of my Apple /// collecting dust but I am going to get an Amiga 2000 soon. I have a little bit of software for my /// and will never completely leave it.

Ellison Brown,
Elizabeth, NJ

Your Apple /// is not dead yet. I am sure you meant to say upgrading to an Apple ///e instead of ///e. There was a board made that could be installed called a Titan /// + ///e. The company, Titan Technologies, who made them went into chapter 11 and I believe they are still in business. We did sell their boards at one time but we do not anymore.

You can purchase a 65C02 microprocessor chip for \$14.95 and also a 65C802 chip for \$90. Both of these chips reduce the power requirements of the system and help your computer run cooler and somewhat faster. The speed up is not a great deal so you won't see any appreciable difference. Our 512K memory upgrade is currently priced at \$354 plus \$10 s/h. However, the price is subject to change due to the price hike on computer chips. We are advising all

who are considering purchasing the upgrade to call the (805) number before ordering for the correct price.

Software information

Please send me information on the types of software and/or hardware you offer for use with the Apple /// computer. I am currently using /// E-Z Pieces, but am interested in knowing what else is available and how easily I could convert to another program.

I am particularly interested in the following merchandise:

*that would allow me to merge a data base mailing list with a word processor document for mass mailings;

*that would increase the amount of desktop memory which I am able to work. I presently am able to work with approximately 183K on my desktop.;

*that would allow me to set up some sort of phase memory for often used phrases, names, etc.;

*that would allow for some type of "spell checking."

I am also interested in surge-protection devices, spooling devices and any type of "printer-enhancers" that would enable me to print using boldface and other printing options.

Jo Muller,
Memphis, Tenn.

Haba Merge is a program that will merge your existing /// E-Z Pieces files into form letters. We sell it for \$98 plus \$5 s/h. Another program that has these features is StemWriter. We sell it for \$99 plus \$7 s/h.

The only way to increase your desktop memory space is to purchase a memory expansion upgrade. The cost to upgrade to 512K memory is \$354 plus \$10 s/h. The final desktop space is 414K with /// E-Z Pieces loaded.

The Desktop Manager and its accessory module, the Macro Manager, will allow you to make up macros, which define keystrokes, for any application. It would work out great with your mass mailings. For instance, let's say you have several states that you send the mailings to. Just use the Macro Manager to define the name of each state and with the touch of a few keys, instead of many, the name of the state you need

appears on the screen. There is a spelling checker under development for both the StemWriter and /// E-Z Pieces programs. Surge protection devices can be bought anywhere. We can get a printer buffer device that will hook up between your printer and computer. It will take your data and send it to the printer as fast as the printer can handle it.

Your /// E-Z Pieces program has bold face capability as well as many other printing options. Just press OPEN-APPLE O to see the options menu. It sounds as though you need to read your manual more thoroughly to use /// E-Z Pieces to its maximum capability.

Thanks Bob!

I wish to thank Bob Consorti for his endless and tireless support of us /// owners. I want to say that if it had not been for him and his staff I would still

hate the Apple Company with a passion, but with his support I feel as though I have been able to overcome this bad feeling and replace it with a feeling of much dedication and knowledge of the computer age. Thank you Mr. Consorti and as a charter member of ON THREE I am indebted to you and your staff for their much needed support.

Larry Snow,
Moorpark, CA

Thank you for all of the kind words. People like yourself have made ON THREE happen! With your continued support of our products, we are able to continue the magazine and the other services we provide. More importantly, people who share their knowledge, as you did in last month's issue, are one of the biggest assets to the company. We hope to continue to serve you both in the Apple /// and Apple IIGS market.

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/// E-Z Pieces & StemWriter Spelling Checker Available Today!

When we asked people what new software that they would like to see for their Apple /// some time ago, the overwhelming favorite was a spelling checker for the popular /// E-Z Pieces. Well, it's ready!

StemSpeller /// is now available from the folks down under. Compatible with standard ASCII files, Pascal Text files, StemWriter files and most importantly /// E-Z Pieces files, this fast and easy to use spelling checker will knock your socks off with its speed and versatility.

It comes complete with a 60,000+ word main dictionary and the ability to create auxiliary dictionaries of words that you commonly use.

StemSpeller is 100% assembly language for speed and comes as a standard interpreter that can be run by itself or loaded and run under Selector and Catalyst.

As with all ON THREE products, it isn't copy-protected and comes with our full product support and limited warranty.

StemSpeller /// is available today for only \$69.95 plus \$5 for shipping and handling. Since over one thousand people asked us for this product we expect to have a hard time keeping them on the shelf. Be the first on your block (or city) to be able to spell check your /// E-Z Pieces files. Order StemSpeller /// today!

If you requested the /// E-Z Pieces Spelling Checker, we're counting on your order today!

△ Compatible with /// E-Z Pieces Word Processing files, StemWriter files, regular ASCII files and Pascal Text files.

△ 60,000+ word main dictionary with auxiliary dictionaries available.

HOW TO KEEP FIT WHILE WORKING AT YOUR APPLE III

by David Greenberg

The normal trials and tribulations of getting your Apple III, (or any other small business computer), up and running can keep you and everyone around you in an emotional frenzy.

Software that you can't understand, products that are no longer supported, printouts that didn't print, dealers that won't help and bits that don't byte are just a few of the struggles that you've faced in getting your system up and running. Even with all the help offered by ON THREE, the bottom line is still that it's up to you to make your Apple III do what you want it to.

But the stress of getting your Apple III to work is minimal compared to the stress of operating it, day in and day out.

And while the physical or emotional stress of screen glare and lack of body movement won't go away, there are ways to keep yourself and your people more productive, more relaxed and healthier while working on the Apple III.

The Desktop Stress Routine For Increased Productivity and Efficiency

Although chances are that a full scale health facility may be impractical for your company, a full scale isometric fitness plan isn't.

Take a close look at these techniques that you can implement *right at your Apple III for peak productivity and efficiency.*

1. Start with a "5X2" Routine.

By the time your body starts sending signals of physical or emotional



stress, you may already be stretching beyond an allowable tolerance level.

Therefore if anyone in your office spends more than two hours per day at the Apple III or in any sedentary position, you should require five minute exercise breaks every two hours.

By using a combination of the following exercises, you can nearly eliminate the stress and strain that build up during a "terminal tournament."

As a note of caution, however, anyone with existing back pain, injuries or sensitivity to exercise should consult their physician before attempting any exercise routine, including those described here.

2. Don't Smoke

Anyone working at a computer should not smoke since it simply accelerates tension, increases heartbeat, and aggravates the stress level already caused by glare, eye strain, heavy concentration and keyboard coordination. In effect you've added insult to injury.

Smoking will also aggravate the normal stress and tension of other operators.

3. Sit Straight

You and your fellow Apple III operators need the right kind of chair and the right kind of posture. When you are at your Apple III, your back

should be straight, with feet flat on the floor (or slightly elevated with a small foot stand). Your legs should never have to stretch to reach the floor from a seat that is too high.

If your knees cannot be at the same level as, or slightly higher than your hips, the chair or keyboard *must* be lowered. Otherwise, you could be visiting a neurosurgeon in a matter of 12-18 months.

4. Breathe Deeply

Computer operators tend to restrict their breathing and eyeblinking while increasing body tension and eyestrain at the terminal. This is normal with any high degree of concentration and detail work.

Therefore, every 15-20 minutes you should take several deep breaths, through your nose, and exhale through your mouth. This will relieve tension while increasing your oxygen intake.

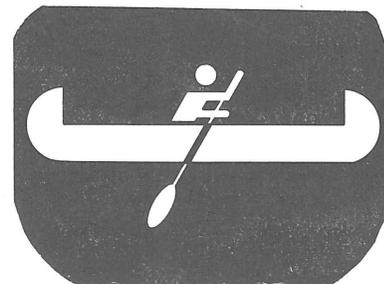
5. Exercise Your Eyes

To strengthen eye coordination and relieve eye strain, face forward, keeping your back straight.

Tilt your head to the right, in line with your right shoulder, keeping your face forward.

Now, without moving your head at all, move your eyes up to the ceiling as far as you can look; then to the right side of your head; and now to the left.

Repeat this exercise with your head tilted to the left and again face forward. Repeat this entire exercise 5 times while breathing deeply.



6. Give Your Upper Back An Isometric Massage

With your hands on your shoulders, move your elbows toward one another in front of you. Now pull your elbows and shoulders down, and rock them back and forth in a circular motion (as though you were drawing a circle with your elbows). Repeat 10 times.

Take a deep breath and slowly breathe out through your mouth, while letting your shoulders down and stomach out. At the same time, let your head fall forward toward your chest. Repeat 5 times.

Extend your arms in front of you, with your palms forward as though you were going to push against a wall. With your arms stretched out, pull your fingers and hands back to create a slight tension.

Now move both arms together to the right, without moving the rest of your body, then to the left, creating a twisting motion on your mid-back. Repeat 3 times to each side.

Finally, while you're standing straight, cross your hands behind your lower back. Let your head fall forward. Now bend the upper body forward until you feel the muscles start to pull in the back of your legs. Repeat 3-5 times.

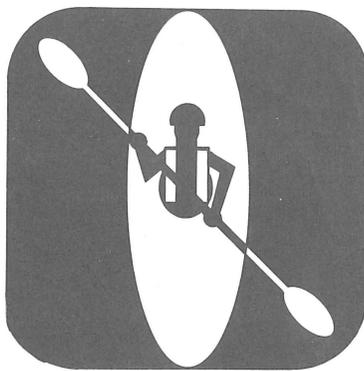
Anti-Static Eating Habits

The right exercise is one way to keep fit while working at your Apple ///; the right eating habits are another.

Since stress and tension drain our bodies of valuable nutrients, it's wise to keep a steady diet of foods that are high in potassium, calcium and protein.

A good breakfast is essential for anyone who plans to spend the morning at their Apple ///.

For lunch, stick with fish, chicken or *very lean* meats. Salads are especially good, as are fresh fruits



and dairy products.

Instead of coffee, tea and caffeine loaded carbonated beverages, drink bottled water or fruit juices between meals.

And by the way, eating lunch at your Apple /// is a definite "no-no," no matter how fast the "rush project" has to be finished. Even if you only spend 10 minutes at lunch, get away from your computer. Concentrate on your food and *relaxing your body*. No matter how much work you must finish, get away from it, even for a few minutes!

The Right Environment

The right place, the right environment, and the right lights play a big part in getting the most out of your Apple /// computer.

ON THREE is here to help you relieve stress by presenting you with the easiest to use software and the most advanced Apple /// Computer products ever developed.

Are you stressed out because you've lost the one file that you just can't afford to lose? No problem, just let Lazarus /// File Restoration Disk restore your file, it's completely menu driven and works in just seconds!

Feeling tension because you are using VisaCalc, Advanced VisaCalc or AppleWriter /// and can't make a back-up copy in case yours crashes? No problem! Just let our Uncopyprotect Driver make you a copy.

Frustrated using PFS and PFS Report while running under Selector /// or Catalyst and having to put your original PFS disk in drive one and hoping it won't crash? No problem. Just order ON THREE's new PFS Hard Disk Version.

Stressed because you wish your Apple /// had features like the Mac? Don't worry! It does, and is even more sophisticated! Just get The Desktop Manager and The Desktop Manager Accessories and you'll be thrilled with what your Apple /// can do!

If you need support with any product, help is just a phone call away. If your Apple /// acts up, don't get stressed and don't get depressed, just call the experts at ON THREE and all of your troubles will vanish! At ON THREE helping you and your people to work at your Apple ///'s happily, productively and stress free is our main goal!



Phase III Report

by Richard and Lavona Rann

What is the future of the ///?

For years Apple /// owners have been talking about getting together to share what they know about their computer. It finally happened as part of the Phase III Conference and Exhibition. Apple ///'rs gathered from all parts of the country as well as several from places as far flung as Germany, South Africa, and Panama. At the top of the list of attendees were the best known names in the industry. Among these were *Bob Consorti* from *ON THREE*, *Ed Gooding* operator of the *Three's Company Bulletin Board*, *Bob Cook* from *SUN REMARKETING*, *Dr. Mel Astrahan* known for his work in Apple /// graphics, *Taylor Pohlman* of *SoftTalk* and *Business Basic* fame, and *Rob Turner* who works on operating systems for *Apple*. This group was bolstered by dozens of people whose programs appear in Apple /// PD libraries and whose names appear on articles in newsletters and magazines.

As hard as these people worked at the seminars and presentations, they partied too. From the Keynote speech and reception of Friday to the banquet on Saturday night and the closing on Sunday afternoon, the three days were a nonstop whirl of Apple talk. The formal and the informal blended together in a perfect mix of intellectual and social activities. It allowed many ///'rs a chance to meet and make friends with the people they knew only from articles, on-line comments, or by phone. *Bob Cook* said that it was worth the trip just to see the customers he'd been serving over the past few years.

Phase III was fortunate to have several of the hottest people in the industry.

Don Williams was a last minute replacement for *Bob Lissner* who was forced to cancel. Don was a long time IBM marketing employee when he left to go with the newly formed Apple. At the conference he wore a golden Apple lapel pin with five diamonds that commemorate five years with Apple. Currently Don's an Apple developer; his company is responsible for *Works* for the Mac published by MicroSoft. Among his other accomplishments is a close friendship by *Bob Lissner* that included important help developing /// E-Z Pieces. Don loved to talk about the early days at Apple, and kept the gathering enthralled for over an hour. With Don was Apple's current Man of the Hour, Apple Fellow *Bill Atkinson* developer of *HyperCard*. Bill's enthusiasm was infectious and captured the hearts of many ///'rs with his demonstration of *HyperCard* (at this time, only for the MAC).

The exhibition gave the companies still active in the /// market a place to show their products, and /// owners a chance to take part in hands-on demonstrations before they bought. Along with the Apple /// material, there were several general developers for newer Apple's, and Apple was there with all the newest products and a group of technical people to explain everything from *LaserWriters* to 5 meg Mac IIs. It was a perfect chance to see the newest of everything.

One of the many purposes of Phase III was to evaluate the future of the Apple ///. To aid in the discussion surveys were made of the /// user in general. These surveys were widely distributed before the conference to get as wide a

representation of the /// community as possible. If you sent yours in from *ON THREE*, or other source, it was counted and included in the following summaries. These helped the seminar participants evaluate just where the Apple /// was and what lay in the future.

Software - It was a surprise to find that each Apple /// owner had a lot of software for their ///'s. The survey shows that most ///'rs own from 11-20 packages of commercial software, with the next two groups, 21-30 and 31-40, together having only slightly more ///'rs than the 11-20 group. What is evident is that the majority of Apple /// owners have purchased a number of products over the years (the average is 22.5). *Business Basic* was owned by the most people with *AppleWriter* second followed by *Pascal* and /// E-Z Pieces. Out of the 124 commercial software packages listed in the survey, everyone had at least one owner response. An amazing diversity for Apple ///. Perhaps even more amazing is that almost every respondent listed /// E-Z Pieces as their most used piece of software getting a positive response from 85percent of its owners. There is, however, a strong divergence of opinion among Apple /// owners. In the category of *Least Used Software*. Here, along with *Business Graphics* and *QuickFile*, was *Business Basic* which also rated high among the most used.

It was in the category of what people would like to see for their Apple /// where consensus seemed to break down. Despite a wide variety of answers, a number of people agreed upon some wishes. At the top of the list was

IIE emulation without a card, desktop publishing, and Native code Pascal or C compilers. Of this group only native mode compilers are possible, the other two are financially not feasible because of hardware considerations. While no one knew of anyone attempting to write a native mode compiler it wasn't completely dismissed. Here the consensus is that it is not likely one would be developed because of the programming time involved; most thought a half measure would work, a conversion program that would convert a standard version of a language to native code. This would take considerably less programming time and was seen as a real possibility.

Hardware - In the hardware category reactions were a little different. Most people realized that there would not be an upgrade of the Apple III. While it would be nice, there is little hope that the hardware itself will be changed. What most people centered on was upgraded peripherals and add-on cards. The two most talked about cards were a SCSI interface card and an AppleTalk card. Here the AppleTalk card has been looked into by several companies considering making them for the IIE. They found that there were too many timing problems that would increase the engineering costs as well as the costs of components of the cards which would price the card beyond what the market would support. Most companies felt that an AppleTalk Card selling at a price close to \$500 would not sell well enough to make back the cost of development. The SCSI card remains a possibility, but not likely. Here the cost of designing one from scratch would be prohibitive. If one were to be made for the IIE that would fit in an Apple III case it would be a possibility to convert it for III use and develop the appropriate driver(s).

Unlike software, many of the hardware features available for the IIE are difficult to convert to the III because of the re-

strictive Apple II routines. In this category are multi-function cards. The Apple III market is just too small to support that type of engineering. Another hardware casualty is slot extender boxes which are possible for cards requiring a slow interface, but most demands for a slot extender are for cards that require high speed interface. Here again the cost of development would make it impractical to construct.

With other hardware desires there is still some hope. *ON THREE* offers the Unidisk which is an 800K 3.5 inch drive for the Apple III. It is a great help for backup, and the size that allows data to be read into newer Apple computers. Besides the profile, there is still movement in hard disk interface cards for the III that would include hard disk models that are larger than 5 meg with tape backup.

There is a future for the III - The major limiting factor is cost; the Apple III market will no longer support projects that require high amounts of development dollars. That does not mean that there is no future for the III. The value of the Apple III has not been destroyed. The III has value as long as it can function. As long as it satisfies the needs of the III owner it is not obsolete. While it is true, it is safe to say that there will never again be a major development project for the III. Still as Bob Consorti said to the seminar on hardware, "The III branch is only dead if you want to cut it off." The III must be kept alive by its users now. If there is software to be written, it will have to be written by people not in the business of writing software for profit. The reality is that there is too little money in sales for the III to support any development.

It is possible to keep the III alive for years yet. What is necessary is for the people interested in their III to come forward in its support. It is up to the III owners just how long their machines will have a viable life.

Phase III was a great opportunity for the III owner to make himself heard, but like the III itself, there just wasn't enough interest to make Phase III a financial success. There were over a hundred Apple III owners attending, but without the additional Apple II and Macintosh people, Phase III would not have been able to pay its bills. As it was, the rather significant financial investment made by TAU's key officers, will not be even partially returned to them. If there is to be another conference and exhibition that also covers the III, it will have to have a greater level of attention paid to the non-III attendance, as well as support from a large number of III owners. As with the Apple III, the future of such a gathering is up to the people involved. If III owner's want it and will support it, we're sure it can be made to happen.

-III-III-III-

Moving?

ON THREE Magazine will reach your new destination at the same time you do, only if you notify us of your new address at least sixty days in advance.

The U.S. Post Office *will not forward* bulk mail. Sorry, we can no longer provide free replacement issues of *ON THREE*, so if you're moving, please fill in the form below and mail it to *ON THREE*. You can then be assured of uninterrupted service! Thanks for your cooperation.

Name

OLD
Street

OLD
City, State and Zip

NEW
Street

NEW
City, State and Zip

Date Effective

Ask 'Doc'

written and edited by Dave "Doc" Christenson

Why was there garbage on the screen when replacing the A143 MicroSci drivers when installing TDM? After receiving a fall issue of *ON THREE* magazine, I saw that version 1.3 of the Desktop Manager was out. So I ordered it along with the Disk Manager and the Macro Manager. However, I think I received version 1.2.

In getting set up with TDM, the A143 MicroSci drivers were replaced (see TDM Manual, page 100), resulting in garbage on the console when utilizing Disk Manager's formatting. I resorted to the old A143 drivers (v. 1.2) and things seemed to be working OK. I called your technical questions number and asked about configuration block byte number and received very courteous service. I also asked about formatting drivers as I had removed my boot disk Catalyst and put them in Catalyst/sos.driver. I was told leaving them in Catalyst was OK. However, I learned that the Disk Manager would not work unless formatting drivers were on my boot disk.

When using Word Juggler, I had trouble getting Closed Apple 7 and 8 to work properly for the dictionary. The Graphics manager won't mount and keeps asking for OPTION G from the Graphics Manager (v. 1.4) disk, but OPTION G is not on the disk.

I read with great interest the letter from Rev. Wagschal some time ago. Perhaps he and I could share /// experiences. I have helped one other pastor get started on the /// and am helping the local Lutheran church at the present time. Rev. Wagschal mentioned purchasing his Apple /// in 1982 and "paying through the nose" I can empathize! I purchased mine in December 1982 and saw the local dealer in Lewiston, ID lock his doors in February 1983. Being a pastor in Idaho, next to a wilderness area, had its isolating moments. I paid another dealer in Missoula, MT \$25 to show me how to install a driver. I learned to set disk drive speeds in Mason City, IA using a fluorescent light. I have since advanced to using II mode and Copy Two +. I poked my nose in every door that had the Apple Logo and asked a lot of questions. Somehow, I stumbled onto *ON THREE* early in the game and have every issue. *ON THREE* has supplied my /// well. I bought Lazarus, A143 drive, the Graphics Manager, TDM and the 512K upgrade.

I have just started using TDM and must say that the Macro

Manager is just great! Using PFS File, I set up Macros for city, state and zip codes and was able to make 126 address entries in just over one hour. I must admit to typing 80-90 wpm on a computer though. On my wish list is a module for the TDM that will print spreadsheets sideways. Keep up the good work *ON THREE!* - Rev. Jared Jenkins, King City, CA

Doc says... Thank you for the nice letter. We here at *ON THREE* really appreciate the support of all our fine customers and we are committed to provide the best possible service to all. To answer your questions:

1. Did you check the help screens to see what version you really have? We have been shipping version 1.3 since Sept. 1. If you did receive the wrong version, then simply return it and we will exchange it.
2. About your Graphics Manager ///. Did you look for OPTION G on the back side of the disk? If so and it's not there, then call for an RMA # and we will take care of it for you.
3. About Word Juggler, please reread your TDM manual page 85 and Chapter 7. The problem you describe is explained in the manual.

This information should take care of your problem.

Thank you for letting *ON THREE* be of service to you. Please let me know how I can be of any further help.

Where can I find a driver and manual for Quick 20? I'm writing this letter, concerning a hard disk I recently bought at a local computer swap meet. the hard disk in question is a Quick 20 H.D. (20 mb). It was produced by CMC Computer Systems in Santa Ana, Ca. CMC was bought by CMS in Tustin, Ca.

My problem is that I was told by the person I bought the Quick 20 that it was last used on an Apple /// computer. I'm not what you would call experienced in computers. I have an Apple /// and it's the first computer that I have owned.

Well, I found out that when I got home that the documentation and driver for the Quick 20 was missing. I contacted CMS and

was told that they no longer made the Quick 20 H.D. So my question is where can I find a driver for the disk and the owner's manual? - Victor Feliciano, Rosemead, CA

Doc says... Thank you for your letter. To answer your question:

The only contact I have is Charles McConathy at CMS Enhancements in Tustin. He has the information you seek.

I hope this information is of help to you. Thank you for letting ON THREE be of service to you. Please let us know if I can be of any further help.

I Love My ???

Some time back, Apple had a campaign called "Apple II forever." Our viewpoint, of course, is *Apple III forever* to create and continue interest in one of the world's finest computers. To this end, we have designed *I Love My Apple III* t-shirts and sweat shirts. You can help us promote the *III* by ordering now. The t-shirts are only \$11.95 and the sweat shirts are \$18.95 each plus \$3 shipping and handling. Both come in sizes Sm, Med, Lrg and X-lrg. The t-shirts are available in yellow, beige, white and blue, while the color choices in sweat shirts are silver, white, blue and yellow. Order one of each now and demonstrate your support for the Apple *III*.

Will a Mini Scribe hard disk work with ON THREE software? I have been thinking about upgrading my Apple *III* from 256 to 512K and purchasing a hard disk drive for a lot of programs that I would like to buy from ON THREE. However, after shopping around, I have found a computer store that has a 30mb hard disk for \$600 from a marketing firm called Mini Scribe. If I purchase this hard disk, are you able to provide the necessary software that will enable this hard disk to run on my *III*? the Sider 20 sounds great, but the price is outrageous when I can buy another hard disk that provides 10mb more at almost half the price.

I am also interested in your advertisement on the \$99 Daisy Wheel Printer. Your advertisement stated that the printer is in B+ condition, but not many details were given. For example, what kind of Daisy Wheel-Diablo, Qume, etc., what kind of ribbon is needed? The price sounds great, but I would like to know a little more about the product before I commit myself.

I am also interested in an external modem. As much as I have heard and read about your Communications Manager, it

Continued page 29

ARE YOU AT THE END OF YOUR ROPE TRYING TO GET SOMEONE TO SERVICE YOUR APPLE *III*?

Well, worry no more! ON THREE is pleased to announce the addition of Dave Christenson to our staff, as Manager of our Technical Service Department. Dave comes to us with many years of Apple *III* experience. He trained at Apple, Inc. when the *III* was not as yet released. Dave and his staff will be able to diagnose any *III* and fix your problem at a reasonable cost.

Our service department is now offering in-house repairs of Apple *III* computer systems. The cost is \$50.00 per hour labor, with a minimum service charge of \$50.00 plus parts cost and return shipping of your system. We offer a 48 hour turnaround, (weekends and holidays excluded). All work is warrantied for 90 days. Please feel free to call for further information. As a get acquainted offer, our service department will clean your internal drive and do a complete system testing for only \$50.00 plus parts cost plus \$35.00 shipping. This is a great deal! Drive cleaning is normally \$30.00 alone.

Please call the technical support line listed below for a repair authorization number (RMA) prior to shipping your system. Any package received without an RMA number is subject to refusal. We suggest that you package your system in its original packing container (if still available), or another large box with sufficient space to add plenty of protective packing material such as foam or 'peanuts', write your RMA number on the outside of the box, include a cover letter and ship it to us via U.P.S. Blue Label (second day service). If down time is an important factor to you, check with Dave, he may be able to offer Red Label service for an even faster turnaround. RMA's take priority over any other work. Your system must be shipped to this address:

ON THREE, Inc. - Attn: Repair Dept. - 4478 Market Street - Suites 701-702 - -Ventura, CA 93003



appears that an Apple /// without one is like a cart without a horse. My question is what kind of external modem is best for the Apple ///? The computer store has informed me that Well Tech produces a respectable 300/1200 baud modem costing about \$150. Is this a good price or should I invest more money for a modem that will provide unlimited communication potential? Or, is there such a thing? What exactly is needed to work with the ///? will any 1200 baud modem suffice as long as one knows how to hook it up to the telephone line or am I missing something?

I would like to have a back up for my Word Juggler and was wondering if I could use Word Juggler files transferred to StemWriter files? What differences exist between Word Juggler and StemWriter? Also, could you tell me if there is some type of spooler that enables the user to continue working on a document while the printer is printing? With Word Juggler, I seem to be at an impasse; while the file is being printed on the hard copy, the edit mode is frozen and no work can be resumed. I would like to continue my work while the printer is in operation. Perhaps there exists a program that lets the user restart the printer when a new page is ready for printing. Does *ON THREE* sell such a program?- *Bill Sharp, Blytheville AFB, AR*

Doc says.... Thank you for your letter. In answer to your questions:

1. We are currently selling and supporting Sider 20mb hard disks for the Apple ///. Cost is \$950 plus \$35 s/h. We have no support software for any other hard disks at this time.
2. I recommend purchasing Selector /// to be used with whatever hard disk you buy. Cost \$99 plus \$7 s/h.
3. I have enclosed a list of the programs Selector /// supports. You can modify the menu as outlined in the manual to include programs not listed. Selector allows practically any program to be added to the menu and it is very simple to use.
4. I currently do not know of any program that is any better than the Communications Manager. You really only need this communications program for all your needs.
5. *ON THREE* now sells modems. 1200 baud modems for \$159.95 and 2400 baud modems for \$259.95.
6. Both the daisywheel printer and terminus program are used items. The terminus is already sold. The printer is an old large bulky typewriter/computer printer, set up for serial operation. It is sold as-is. It is still available.
7. I am not aware of any difference in the file structure

between Word Juggler and StemWriter. No one to my knowledge has tried transferring files as of yet. StemWriter is so new that not many people have had a chance to use it yet.

8. Several spooler drivers already exist. See November 1987 *ON THREE* magazine. I currently use an external serial printer buffer between my computer's RS232 port and my printer and just dump my document to it and continue to use my computer. I use /// E-Z Pieces exclusively. We sell it for \$135 plus \$3.50 s/h. We do not sell an external printer buffer at this time, but there are many available. Any RS232 (serial) buffer will work.

I hope this information is of help to you. Thank you for letting *ON THREE* be of service to you. Please let us know if I can be of any further help.

Do you have the Draw ON /// version I need? I have upgraded directly from 128K to 512K. The only thing I have to do is remove the resistor R58 at location D14 on the main computer board, put solder to joint the two half disk under the removed resistor, process as specified on the instructions that come with the 512K board.

Please send me a list of your software and other products for the Apple ///. My printer is an Epson FX-185 connected to the serial port. Do you have a version of Draw ON /// for that setup? - *Gaston Savoie, P. Quebec, Canada*

Doc says... Thank you for your letter. Here is the information you requested.

Draw ON /// will work with your Epson printer. Just ask for the Epson version when ordering. There are drivers on the boot disk that will allow it to work with your configuration.

I have enclosed our latest catalog.

Thank you for thinking of *ON THREE* for your computing needs. Please let me know if I can be of any further help.

Will the Communications Manager work with Info-Mate 212A? First, I want to thank *ON THREE* for being there and especially for being there when I needed you.

When my trusty 5 1/2 year old /// collapsed on me in October, there no longer being any apple franchised dealer in my area, and moreover those like Compuerland, who now handle Apple IIe's and Macs, etc. - and everything else - are certainly not Apple-dedicated nor interested in looking at "the obsolete Apple ///," I decided to phone your 805 technical support number.

Thank goodness also that I've been subscribing to and enjoying *ON THREE* or I might not have known that this good service is available.

I was promptly connected with someone who reassured me that my *///* was most probably restorable. Fortunately, also, I had been for some time considering upgrading from 256K to 512K. Because of your policy to achieve whenever possible a 48 hour turnaround, I soon had my machine back in *beautiful working order*, truly better than new, with expanded memory and I think faster response time.

Many thanks to *ON THREE* for your fine magazine and your fine service.

Please convey this to all who had a hand in restoring my Apple *///* and getting it back safely to me in the shortest possible time as well as for the personal advice and consolation during my phone calls.

I do not yet own either Draw ON *///* or the Graphics Manager *///*, although I am interested in trying some graphics, especially in the realm of computer assisted design. Are these drafting programs that you offer the original versions or the updated? That is to say, if I were to buy either or both, would I also have to buy the offered update separately to have the latest edition?

And since I have a NEC SpinWriter, must I first decide on what dot matrix printer to acquire before ordering either of these programs?

And finally, in the interest, ultimately, of having my graphics, "mouse-assisted" to use the Apple *//e* mouse and interface card, is it necessary to separately emulate Apple *//* as well? Or does the interface card take care of rendering the *//e* mouse compatible with the Apple *///* without separate Apple *//* emulation?

Will the Communications Manager work with my Info-Mate 212A? My software is Easyterm *///* by Sun Data, and despite its name, I have not found it easy to use. - *Robert Oertley, M.D., Sunriver, OR*

Doc says ... Thank you for your letter. It is nice to know that we are appreciated for our efforts. Here is the information you requested.

To answer your questions:

1. Draw ON *///* and the Graphics Manager are the latest versions. We allow people to update their programs to a different printer configuration if they buy another printer so they will not have to buy the program again.

2. You need to decide which printer you need to buy before ordering these two programs. I suggest an Epson printer FX, MX or RX series. You will need an Apple UPIC interface card and cable. We sell both for \$99 + \$5 s/h.

3. The mouse works with Draw ON no other modification is necessary. It is not necessary to go into *//* mode to use it.

4. The Communications Manager should work just fine with this modem.

Technical Support Line 1- 805-644-3514

Hours: M-Th 9-12 & 1-5; Fri. 9-12 only. Times are Pacific Standard Zone.

We at *ON THREE* are committed to providing the best products and services to our valued Apple *///* customers. Thank you for thinking of *ON THREE* for your computer needs. Please let us know if I can be of further help.

-///-///-///-

De - Classifieds

Want to Buy: Real Estate Property Management program for the Apple *///*. Looking for Property Management Real Estate Analysis by Century Software or similiar program Call (815) 229-6073.

For Sale: Apple Graphics Tablet Model #A2M0029, with stylus, card and manual, in original carton, new condition, used very little. Best offer. Call Coville Woodburn (603) 863-5590.

For Sale: Apple *///*, 256K with monitor. Extra external disk drive, printer card. \$600 plus shipping. Larry B. Kamins (619) 340-4543 Days. (619) 568-6520 Evenings

Classified Rates: \$1 per word, \$25 minimum. Copy must arrive 60 days prior to cover date, e.g., January 1 for March issue. **Subscriber Discount:** 50 cents per word. \$12.50 minimum. Please send your ad copy with your payment to:

ON THREE
De Classifieds
P.O. Box 3825
Ventura, CA 93006

StemWriter /// (continued from page 15)

Unfortunately, printer configuration is one of few rough spots in the entire package. First of all, one must add the appropriate device driver(s) to the StemWriter SOS.DRIVER file using SCP. The program supports up to four printers simultaneously and comes configured for two parallel printers and two serial printers. Please note that serial printers *must* be driven by the two-way protocol .RS232 driver. The output-only .PRINTER driver is not usable. Once the proper drivers are in place, you must establish a logical connection between device driver and printer capabilities using the StemWriter Utilities Disk. In stark contrast to StemWriter itself, the Utilities Disk printer configuration programs are not particularly easy to use and will probably drive novice ///er's to the very brink.

Printer capabilities are defined via the entry of HEX codes mined from the fine print of your printer's technical reference manual. As if that isn't enough, some HEX codes must be derived from *your calculations* of the *sums* of the *ON* or *OFF* state of various *BIT* switches representing various printer features!

To be fair, of course, I must point out that StemWriter is shipped with 12 pre-written printer configurations, including configurations for the most commonly-used /// printers: Imagewriter/Apple DMP, Epson MX, Epson FX, Qume Sprint 5/Apple LQP, Brother HR15, and Diablo 620/630. Also, let's be honest: StemWriter offers a degree of text formatting power and sophistication unequalled by any other program; there is no reasonable alternative to

HEX code entry which would still provide StemWriter full access to all that your printer has to offer. Having been disappointed by far too many programs which refused to acknowledge the proportional printing capabilities of my printers, I found StemWriter refreshing. While printer configuration is unnecessarily unpleasant, it only has to be done *once* — and *ON THREE's* outstanding technical support and the supplied printer configurations adequately recompense the otherwise terrible configuration program.

Next month: We will discuss the performance of the program, the documentation and will summarize both the good and badpoints of this relatively new program.

-///-///-///-

ON THREE. The Apple /// Experts!

StemWriter ///

\$99 plus \$7 s/h

Have you been waiting for a word processor that does it all? Enough waiting, try the latest word processor - StemWriter ///. This program, available through ON THREE, can help you! It seems to be just what the doctor ordered for writers, office managers, desktop publishers, secretaries and anyone else who needs a sophisticated word processor.

**Only 128K
Apple /// required**

- *Design your very own form template
- *Make your own headlines
- *Utilize on-screen bold text and underlining
- *Make sharp, attractive footnotes
- *Adjust your column width up to 240 characters wide
- *Utilize on-screen overstrike
- *Date-stamp your documents
- *Count your words, sentences
- *Make your own labels
- *Personalize your form letters

With this latest *ON THREE* product, modes are almost discarded entirely. Forget the "insert mode" and the "delete mode" routine. You can also discard all of your possible questions about printers as StemWriter files are standardized and may be printed on any printer without alteration. Just zip into the printer control code table. For those people who haven't been satisfied with other word processors, here are some comforting words about StemWriter's capabilities:

- *Utilizes a desktop just like /// E-Z Pieces, except it can store up to 8 documents in the computer's memory.
- *Gives users four levels of superscripts and subscripts to choose from. It is very easy to make a character a superscript or subscript. Right before your eyes on the screen, you'll see the difference.
- *Utilizes the four arrow keys to "see and point."
- *Predefined numerical keypad makes loading, saving and other tasks simple! If you don't like the definitions, StemWriter will allow you to change them!
- *File management, sorting/selecting segment records, formatting a volume, creating a vanilla file and other important tasks can be performed from within the StemWriter Utilities program. Save valuable time using this program.
- *Allows you to view two files simultaneously.

TrackBall /// - A Low Cost Alternative To The Mouse

One of the other things that people want for their Apple ///'s is a low cost alternative to the Apple Mouse. The TrackBall /// fits the bill!

If you're using Draw ON /// or other graphics packages for your Apple /// you may be holding off on ordering a mouse because of the price. If so, wait no longer, TrackBall /// is here.

The TrackBall /// is compatible with most major graphics applications on the ///. It comes with a replacement **.MOUSE** driver that you can add to Draw ON and other popular programs.

The TrackBall is like an inverted mouse. Instead of pushing and pulling the mouse around your desk (if you have the room), the TrackBall unit remains stationary while you roll the little ball back and forth.

TrackBall /// comes with two buttons, instead of the single one on an Apple mouse. The second button can be used to adjust the sensitivity of the TrackBall on the fly. No need to change drivers, just press the second button and the sensitivity of the TrackBall changes according to your wishes.

The TrackBall /// comes complete with the trackball, interface card, the driver disk and full documentation on installing the interface card and using the trackball. Best yet, it's priced at only \$89.95 plus \$6 for shipping and handling.

Order the TrackBall /// today!

* The TrackBall does not generate interrupts so it will not work as cursor keys in The Desktop Manager, nor will it work with The Graphics Manager.

Great 1200 & 2400 Baud Modems For The Apple ///

When we went searching for low cost yet powerful products for the Apple ///, the SmartLink modems we found were perfect. Completely Hayes compatible, we're offering these great modems at great prices!

The SmartLink modems are compatible with all communications packages on the ///. Our own Communications Manager, Access ///, Terminus and others all work just fine with the SmartLink.

They feature full auto-answer, auto-dial and a rugged aluminum case with power cord.

The SmartLink 1200 and 2400 Baud modems come complete with modem and instruction guide. The SmartLink 1200 costs \$159.95 and the SmartLink 2400 is only \$259.95. Please add \$10 for shipping and handling.

Special Offer!!!

Order any SmartLink modem and get a Communications Manager for \$10 off our regular low price! Order the SmartLink 1200 with the Communications Manager for only \$199.90 plus \$12 for shipping and handling. If you want faster telecommunicating, order the SmartLink 2400 with the Communications Manager for only \$299.90 plus \$12 for shipping and handling.

Order one of our fine SmartLink modems and get started in the wonderful world of telecommunications today!

ON THREE - Your Apple /// Experts

Looking For An Even Better Hard Disk Drive? Try the New Sider 20

One of the advantages of a hard disk is that you can store virtually ALL of your programs and data files on it, greatly reducing the time it takes to do things. If you have a Titan ///+IIe board you probably bought it for the same reason. There are programs on the ///e that make it easier for you to do your work. If you want a hard disk for your Apple ///, the choice has been very limited if you want it to work in the Titan ///+IIe emulation mode.

The new Sider 20 from ON THREE expands your options. The new Sider 20 now works perfectly in the Titan ///+IIe (and regular Apple II) emulation mode. This means that you can store your files on the hard disk in the regular Apple /// mode, then switch to the Apple II emulation mode and access those same files with all of your Apple II and ///e programs.

The new Sider 20 comes complete with documentation, interface card, Apple /// driver disk and all necessary cabling. The new Sider 20 even supports Apple II DOS, Pascal and CP/M partitions through it's powerful installation utility. The new Apple /// Sider 20 drivers automatically recognizes these partitions and allows you full access to the two SOS partitions in Apple /// mode.

The new Sider 20 is a great great hard drive. The best part is the price. For only \$949 plus \$35 for shipping and handling you'll get this great 20 MegaByte hard drive with everything you'll need to get up and running on your Apple /// - even if you're using it as an Apple II!

Special BONUS OFFER. Order today and get a free Selector /// program switching utility for the Sider 20. If you have a hard disk you can't be without Selector, if you have a /// you can't be without this powerful hard disk. Remember, Siders are *much* faster than the old ProFile!

BULK RATE
U. S. POSTAGE
PAID
Permit No. 90
Ventura, CA



\$5 **ON THREE MAGAZINE** \$5

ON THREE subscribers may deduct \$5 off their next ON THREE software purchase of \$25 or more. Limit one coupon per subscriber. This offer is valid only on mail orders and can not be used in conjunction with any other discounted sale items. A copy of this page showing this coupon and your address label must accompany your order. Offer expires Feb. 29, 1988

\$5 **ON THREE MAGAZINE** \$5

Super Disk Sweetheart Special!

For Subscribers Only!

Disk No. 1 contains:

***Printer Setup** - Allows you to send complex control codes to your printer via easy to use menus.

***TypeWriter** - Turns your Apple /// into an intelligent typewriter.

***Labeler** - Prints labels you define, one at a time or even multiple copies.

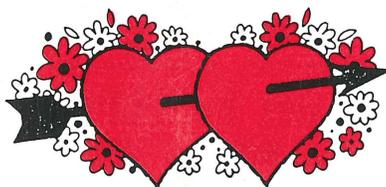
***New Desktop Setup** - Allows better control over the ClipBoard.

***Make Subdirectory** - The one we forgot in the Disk Manager.

***Screen Dump** - Prints a copy of your current text screen at any time.

***Menu Manager** - gives the Desktop Manager's main menu submenus, so you can have an infinite number of accessories on your trusty old Apple ///.

Priced separately, they would cost over \$250.



They Belong Together!

Disk No. 2 contains:

***Show Time** - Now you don't have to go back to System Utilities to change the time or date. Plus, there is an elapsed timer included in this module!

***Change File Type** - This module allows you to change the file type in the disk directory.

***Change Font** - You can now change screen fonts while using TDM.

***File View** - Ever wanted to view another file within a file? This module lets you do just that.

***File Print** - Besides viewing a file within a file, you can print it, too.

***Print Screen** - Just like Screen Dump, but better! You can opt to Print Screen, Form Feed Printer or Line Feed Printer.

The disk also contains Reload & Exit, PKASO U commands and the Warning Module.

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