

ON THREE

The Magazine For Apple III Owners and Users

®

Volume 5, No. 11/12

November/December



Desktop Publishing & The Apple III

Three Attack

Brightening Up Basic

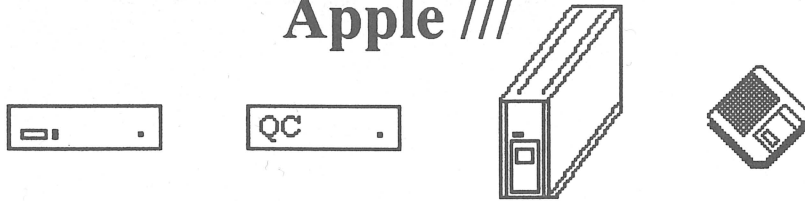
The Apple III And Printers Part II

The History And Future Of SOS

110 <-> 220 Volt Conversions

The Apple III Goes To Church

Selector /// - The Best Program Switcher For The Apple ///



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Access 3270	Business Basic	Go Back	PFS: Report*
Advanced VisiCalc	Business Graphics	Graphics Manager	Quick File ///
Apple II Emulation	Cobol	Graph'n'Calc	Script ///
Apple File ///	Crossword Scrambler	Haba Merge	Senior Analyst ///
Apple Speller ///	Draw ON ///	Keystroke Data Base*	Side Print ///
Apple /// Pascal	Comm. Manager	Keystroke Report Generator*	StemSpeller
Apple Writer ///	Desktop Manager	Lazarus ///	StemWriter
Backup ///	EasyTerm	Mr. Sandman	VisiCalc ///
BattleFleet	Fortran ///	Multiplan	/// E-Z Pieces

The programs listed above with an asterisk after them are copy protected and require the 'key disk' to be inserted into the built-in drive when you select it from the Selector menu. After the program comes up you can remove that disk. Uncopyprotected versions of PFS: File and PFS: Report are available that work under Selector without the need for a key disk. Likewise an unprotected version of Word Juggler is available for only \$15 plus \$2 for shipping and handling.

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ON THE COVER:

**A look at lovely winter scene
(With the Apple ///'s staying warm inside!)**

Cover by Cathy Consorti

Call Three: Hotline

The Call Three Hotline is a service whereby Apple /// users can contact fellow Apple ///er's who have expertise in a particular subject(s) pertaining to the Apple ///. These individuals are not compensated for their efforts so we all owe them a resounding Three Cheers for their generosity.

If you have questions, feel free to call the consultants listed below, but please observe the calling times listed. It would be a good idea to check the time zone so as to *not* wake someone up in the dead of night. If you are willing to spend a little time and help your fellow Apple ///er's, write ON THREE giving the necessary info. and we will be happy to add your name to the Hotline.

Name	Area	Telephone	Days	Hours	Zone	Subjects
Coville Woodburn	NH	(603) 863-5590	M,Tu,Th,F	7-8 PM	Eastern	BB,CT,GE,MI,QU,WP
Ken Johnson	MA	(413) 536-7502	Su-Sa	6-9 PM	Eastern	BB,PA,MD,WP,MI
Don Loosli	MI	(313) 626-3848	M-F	9-5 PM	Eastern	GE,WP,SS,DB
Harry T. Hanson	NJ	(201) 467-0712	M-F	6-9 PM	Eastern	GE,PA,BB,CT
Edward Gooding, Sr.	VA	(804) 747-8751	Su-Sa	6-9 PM	Eastern	CO,SS,PR,MD,CT
Jeffrey Fritz	WV	(304) 599-7010	M-Sa	8-11 PM	Eastern	BB,DB,GE,MI,SS,TC,EP
Al Johnson	FL	(904) 739-1600	M-F	9-6 PM	Eastern	GE
Paul Sanchez	FL	(305) 266-5965	Su-Sa	10-4 PM	Eastern	SS,PR,CT
R.B. Thompson	NC	(919) 787-1703	Su-Sa	10-10 PM	Eastern	BB,DB,GE,SS,WP
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Jim Ferencak	IL	(312) 599-7505	M-F	10-5 PM	Central	GE,EP,DB
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Earl T. Brelje	MN	(612) 455-6405	M-F	4-9 PM	Central	CT,DB,WP,GE,QF,O3
Ron Maupin	TX	(512) 280-0144	Su-Sa	8 AM-10 PM	Central	AL,CO,CT,EP,MD,PA,QU, SS,TC,EP,WP
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William Prince	OR	(503) 254-6465	M-F	9-4 PM	Pacific	GR,TC,Corvus
Karl La Rue	WA	(509) 582-6459	F-Su	6-10 PM	Pacific	MD,GE,EP,WP,TC,SS,CP
Pat Holwagner	CA	(415) 433-2323	M-F	10-6 PM	Pacific	GE,SS,WP,CT,DB,SO,AE,EP
Vincent F. Latona	CA	(818) 703-0330	M-F	9-5 PM	Pacific	GE,WP,BB,SS,AE
Dennis R. Cohen	CA	(818) 956-8559	Su	10-10 PM	Pacific	GE,PA,MU,WP,DB,SO
Kelly C. McGrew	WA	(206) 943-8533	M-F 7-9 PM	Sat Noon-6 PM	Pacific	DB,GR,SS,PR,MD,CT
Larry E Kalland	AK	(907) 272-4968	Su-M,Th-Sa	7-9 PM	Pacific	DB,GR,SS,PR,MD,CT
			Su-Sa	12 Noon-11 PM	Alaska	AC,CT,GE,SS,EP,WP
H. Van der Straeten	Belgium	(015) 516561	Su-Sa	7-10 PM	Europe	BB,CT,DB,GE,PA,PR,SS
Arnaud Trache	France	(21) 030421	Sa-Su	10-7 PM	Europe	AC,BB,DB,AE,FI,GR,MD,PR,SS, TC,EP,OT
J. Woretshofer	Netherlands	(043) 611704	Su-Sa	9-12 AM	Europe	CT,FO,GE,PA,QU,SO,WP,AE,EP
Salvador Garcia	Spain	(91) 234 5068	Su-Sa	7-10 PM	Europe	BB,GE,PA,MD,CT

Subject Table

SUBJECT	CODE	SUBJECT	CODE	SUBJECT	CODE	SUBJECT	CODE
Accounting	AC	Agriculture	AG	Assembly Lang.	AL	Business Basic	BB
Catalyst	CT	Cobol	CO	CP/M	CP	Data Base	DB
Education	ED	Emulation	AE	Financial	FI	Fortran	FO
General	GE	Graphics	GR	Micro-Sci	MI	Modems	MD
Modula-2	MU	Omnis 3	O3	Pascal	PA	ProFile	PR
Quark	QU	Quick File	QF	SOS	SO	Spreadsheets	SS
Telecomm.	TC	/// E-Z Pieces	EP	Word Proc.	WP	ON THREE	OT

Apple Sauce

by Bob Consorti

Trade-Up And Watch Out!

We will probably soon go into the record books for hanging-in there by our continued developments into the Apple ///. But it's for a very good cause - you, our valued Apple /// customers.

With this issue we're introducing another product for the Apple ///, the Sider 40. The Sider 40 is the latest in our line of inexpensive hard disks for the Apple ///. Packing 40 megabytes of information partitioned into two 16 megabyte and one 8 megabyte volumes, the Sider 40 is the fastest and most reliable hard disk to ever run on the Apple ///. Priced at only \$1199, the Sider 40 is a great deal for the Apple /// power user.

ProFile Upgrade Program

The biggest news is our ProFile Upgrade Program. If you want the fantastic speed, reliability or sheer size of a Sider hard disk but have been sticking with your ProFile, we have some great news.

For a limited time we will offer a \$150 rebate if you purchase a Sider 20 or Sider 40 from us and return the old ProFile, interface card, cable and power cord. If you have two ProFile's we will even offer a \$300 rebate on the purchase of a Sider.

If you've been worried about how much longer your ProFile will last, stop worrying and upgrade to an ultra-fast Sider today. Best yet, you can keep your ProFile for 60 days while you transfer information to the new Sider and then send it in and get your full rebate.

The time has never been better to move to a different hard disk. As you probably know, or sales have been going down for some time now. There is one part of our business that is growing by leaps and bounds - our Sider sales.

It seems that as the ProFile gets older and older they seem to start failing more rapidly. As such, we've been selling Sider's more rapidly than ever before. Before your

ProFile or other Apple /// hard disk dies, why don't you upgrade to a Sider?

GoBack Notes

Many of you have been calling and writing letters asking when is our hard disk backup program going to be ready? Well, after almost a year of asking for names of people who will buy it we finally hit the magic number.

I'm happy to say that at present we are working on completing the project and estimate that within 90 days everyone will be able to enjoy the luxury of fast and reliable hard disk backups.

One additional note on the GoBack utility. We will be adding the ability to work with a Sider tape drive. This means that we will also soon be offering a tape drive for the Apple ///.

The tape drive allows you to store multiple backups and backup/restore entire hard disks or a few files at a time. When this option is completed we will let everyone know.

Winter Madness Sale

Some people say we're crazy all the time but I like to think it's just during our Winter Madness Sale going on now.

For those of you, for whatever reason, who haven't purchased the ///E-Z Pieces spelling checker - it's on sale for only \$49.95. If you said you would buy it, please do now. We have a lot of them on the shelf and we would like to think that Apple /// people keep their word.

If you're looking for a spare Apple ///, we have them! An Apple /// with 256K of memory and monitor is only \$399 and a 512K machine is now only \$799.

Continued on page 18

Apple /// User Groups

If you want to meet other Apple /// owners and exchange ideas, tips and hints about the Apple ///, contact one of the user groups listed below. They're all willing and able to help new and old Apple /// users with the trials and tribulations of owning an Apple ///.

If you recently formed an Apple /// group or know of one that is not listed here, please contact ON THREE and we will include the updated information in this section.

California

Sacramento Apple /// User Group
1433 Elsdon Circle
Carmichael, CA 95608
(916) 482-6660

Orange County
Apple /// User Group
22501 Eloise Avenue
El Toro, CA 92630

L.A.-South Bay
Apple /// User Group
P.O. Box 432
Redondo Beach, CA 90277
(213) 316-7738

Apple /// Users of Northern
CA

P.O. Box 1528
Mill Valley, CA 94942

International Apple Core
(Apple /// SIG)
908 George Street
Santa Clara, CA 95054
(408) 727-7652

Canada

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Computer
Society (Apple /// SIG)
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Burnaby, B.C.
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(416) 839-7779

The Astronic Club
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Pickering, Ontario
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Virginia (Continued)

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Australia

The Beginning ///

by Richard and Lavona Rann

The Apple /// And Printers Part II

Last month we covered general topics related to selecting and setting up a printer. This month, as promised, we go into more detail. We are assuming that you are familiar with the general use of Systems Utilities and the installation of driver files. There is one part of system utilities that we did not cover in the March 1987 ON THREE article. It was the Edit Driver Parameters option of the Systems Configuration section. You guessed it, we will be covering that now as part of printer setup tools.

If you haven't used this portion of System Utilities, or it has been a long time since you have looked at it, we suggest that you boot System Utilities, select the SCP section, and read in a driver file that contains a printer driver. Any printer driver will do for the purpose of helping you track what we say.

The Edit Driver Parameters screen for a printer driver gives you a lot of important information about the driver. What we need to look at, and possibly change for installation of a new printer, is selection six, Configuration Block Data. Select that either by typing in the number 6 and Return or using the arrow keys to highlight it and then Return.

The screen that appears is a block of data in the driver which sets the /// to match the settings of the printer (or the ones you want to try if you are doing it by trial and error). Across the top of the screen is the hexadecimal number from 00 to FF. Don't worry, you don't need to really understand hexadecimal to continue, consider it a set of 2 character codes. In each of the 16 places one of these 2 character codes can be entered. The first five contain the parameters that control the way the /// communicates with the printer.

The first two positions control the data rate and format, which are, by far, the most important and the most likely to require change. The last three parameters control the amount of time the printer driver waits after it sends a line feed, carriage return, or form feed character. In most printers these functions are controlled by the printer and

are set to 00s in the printer driver. It is important that the printer manual is checked thoroughly for the particular data needs pertaining to form feed etc.

The first position of the data configuration block, Byte number 1, is Baud Rate. This is the speed at which the printer accepts data transfer. It is set by entering a two digit Hexadecimal number under the first option. Check the speed given in the printer manual against this chart and set it to the highest that you think the printer will accept (assuming you can set the printer to that speed!).

BAUD RATE

<u>Value</u>	<u>Speed</u>
03	110 baud (Teletypewriter speed)
04	134.5 baud
06	300 baud
07	600 baud
08	1200 baud (A common printer speed)
09	1800 baud
0A	2400 baud
0C	4800 baud
0E	9600 baud

Our ImageWriter is set to 0E or 9600 baud which was not a common speed when the Apple /// manuals were first written. An older letter quality printer we had connected to our /// was only 1200 baud. If the printer can be adjusted only by switches on the printer, you have to make certain that the setting matches what you have in the driver file. The speed the printer expects data and the speed the /// sends it must be identical. If your printer can handle 1200 baud but you have its switches set at 300, then a driver at 1200 baud will NOT work.

If you set a printer and driver to a speed lower than the printer can handle, it will work but will cause your printing tasks to take longer than necessary. You shouldn't be able to set a printer to take data at a baud rate too fast for it to handle. If the book has settings up to 9600, then the printer should be able to handle it, assuming the driver is set up at 9600.

The next code field sets the data format, which is a definition of the form the data is to be transmitted to the printer. As might be expected the data formats look a lot like the data formats we recently discussed for use with modems. Think of these formats as codes and remember that the coder (the computer) has to use the same code as will be used by the decoder (the printer) if you expect appropriate output.

DATA FORMATS

<u>Value</u>	<u>Format</u>
22	7 bits, odd parity
26	7 bits, even parity
2A	7 bits, Mark parity the parity bit is always 1
2E	7 bits, SPACE parity the parity bit is always 0
00	8 bits, no parity
42	6 bits, odd parity
46	6 bits, even parity
4A	6 bits, MARK parity
4E	6 bits, SPACE parity

Once you have a driver selected and the block configuration is set you can save the driver file and boot our system with the new printer driver. Remember that we cannot tell if the printer works with the driver and settings until after rebooting with that driver. Each time we change the system configuration we have to reboot to put that new configuration into the ///.

We suggest that you use a copy of your utilities disk for changing the driver files and rebooting. That way you can use the list catalog to printer to see if the setup works and if not, you are already in utilities to revise the driver. Remember that the name of the driver file (you assign it in the Systems Configuration Section) is what you use to access the printer on your ///. Most people and programs use .Printer as the name of their primary printer.

Once you get the printer to work with System Utilities, it should work with most programs. There are some exceptions, however. Word Juggler, Three Easy Pieces, and Apple II Emulation all require a bit more setup. The manuals for these provide explanations of their requirements but we will briefly cover them here.

WORD JUGGLER

Word Juggler must be set up to recognize the printer used by the system. To do this we must configure the World

Juggler program to fit the printer. We start by booting Word Juggler and selecting #8 from the main menu, EDIT CONFIGURATION.

The Configuration screen shows a number of variables including margins, pitch and number of lines on a page. We are concerned with the first four items listed down the left hand side of the screen. The other seven are page description statements, and not important to setting up a printer with the system. They will come into play when describing the default document for the word processor.

The first item is PRINTER DRIVER. Move the cursor to that line with the up and down arrow keys. Using the left hand and right hand arrow keys, select among the printer drivers that Word Juggler finds available in your driver file. On our system we use .Spool because we use the Catalyst spooler with ours, but if we were not using the spooler, we would click the right arrow until . Printer came up.

Remember, each boot disk that is to use your "new" printer driver will have to have it included in its SOS.DRIVER file. If you have not installed it, then Word Juggler can't find it. Also, if there was an old .PRINTER driver on the Word Juggler disk and you did not replace it, you will not be able to print from Word Juggler unless, by chance, the old driver matches your printer.

The next setting is PRINTER FILTER. Here matching Word Juggler to an unusual printer can be difficult. The printer filter tells Word Juggler what features the printer has and how to toggle those features as it sends text to the printer. Word Juggler has a number of the most common filters built in. The "Diablo/Xerox/Qume/NEC" is the one most commonly use for daisy wheel printers. Filters are determined by whether a printer needs a line feed after a Return or not. For our ImageWriter we use what is called the USER filter. This filter was supplied on diskette, and entered into the system for the Image Writer, and is accessed by Word Juggler through that setting.

Selecting the filter is done the same way as selecting the printer driver. Select the filter line with the up and down arrows, and run through the built in filters with the left and right arrow keys. Quark supplies a six page appendix in the manual devoted to writing and selecting custom

filters. This was intended to allow people to use newer printers without a requirement for a change in Quark's software.

The last two items are not important in matching the /// to the printer. The STRIKE COUNT tells the printer how many times to go over each character (we've always used 2 for best results, although slower than if you only have it strike characters once), and whether the printers should underline spaces or just under the characters when underlining a group of words. The effect of this option is stylistic.

/// EZ PIECES

When you are setting up /// EZ Pieces you must go through a process similar in purpose as the one in Word Juggler. The purpose is to tell the software what protocols the printer expects. To get ///EZ Pieces to recognize a printer you must ADD the new printer to the protocols selected in the /// EZ Pieces program. It can keep track of up to four printers at one time.

Choose OTHER ACTIVITIES from the Main Menu; then Choose "SPECIFY INFORMATION ABOUT YOUR PRINTER(S)," and then choose "ADD A PRINTER." After you've done all that, you are ready to select a printer.

/// EZ Pieces defaults to an Apple DMP printer. This is the one that ///EZ Pieces thinks is connected to the Apple /// unless it is told different. It has information for 9 other printer's built-in. If you have one of these, all you have to do is to select the appropriate printer. The list contains information for several Epsoms and a couple of Qumes, and all Apple printers, except the LaserWriter and new ImageWriter LQ. If your printer is not on the list, choose the Custom Printer option.

When using the Custom Printer option you must give the printer a distinctive name, so ///EZ Pieces has a name to associate the setup with, and then supply the protocol information yourself. Once again the printer manual is a must because it spells out these protocols, and will save hours of trial and error until the right combination is achieved.

The protocols should be starting to sound familiar by now. They remain much the same in every context we've

covered.

1. Line feed after return
2. Top-of-Page commands
3. Stop at the end of page — this is a single sheet option
4. Width
5. is where /// EZ Piece can be set to transmit special printer codes for custom printers. These often cover special features like Bolding, special spacing, and print density. All these codes are normally covered in printer manuals.

EMULATION

When using Apple II emulation, the normal Apple /// drivers are not used; therefore, the emulation program must be set to handshake properly with the printer. The /// receives all necessary information from the emulation program itself. Since this is an Apple II function it is more restrictive of what type of printer can be used in emulation mode. Many Apple II programs have printer drivers built-in to the software and cannot work with printers that have not been built-in. The emulation setup does help in many cases, but it definitely does not support all printers that work well on the ///, with all Apple II programs that can run under emulation.

To change the setup, the emulation disk must be booted. On the first screen there are two options. Press "Escape" to bring up the "CONFIGURATION MENU." There are six attributes that can be set on the Configuration Menu. The first option (selection which language, Applesoft or Integer BASIC) is not important to the printer setup. Once again, we select the line with the up and down arrow and make the selection in that option using the left and right arrows.

The next option provides a choice between a SERIAL card and a COMMUNICATION cards. It is easier to access a serial printer in emulation through the serial option because it is designed as a printer connection. This may pose some problems for parallel printer setup. Remember in emulation you have an Apple II+ and are limited to Apple II+ compatibility. This means that the parallel card and printer must be flexible enough to adjust to emulation output.

The next option is BAUD RATE, and must be matched to the printer. The last three options are set on the

emulation disk only if the SERIAL card option is selected.

LINE FEED, LINE WIDTH, and CARRIAGE RETURN DELAY will all be specified in the printer manual. The first of these, Line Feed: Enable Disable determines whether the /// will send a line feed command after a Return. Line Width is the way to set the /// to recognize the maximum width of the printer and supply a Return after that number of characters. If you have a wide carriage printer, the Line Width must be set to 132 to make use of the extra width. The infinity options suppressed the end-of-line Return because some printers require this. Carriage Return Delay: ON or OFF sets the Apple /// to pause after a line to allow the printer time to return the print head to the left. Some printers require this delay.

Remember that with any changes in setup to be permanent they must be saved on disk. While the programs such as Word Juggler will use the changes immediately, changes to System Utilities will not. Any changes to System Utilities require that the /// be rebooted before the changes will be entered into working memory.

PUTTING IT TOGETHER

Printer setup is one of the most difficult problems in setting up an Apple ///. This is not because anything is particularly hard to understand, but because of the

number of variables, any one of which can keep the printer from running. Each time we encounter a printer setup it has slightly different requirements. A printer that works with the /// may have difficulties with a specific program. Unfortunately there are no absolute guidelines. Each new printer is different and may require an extended period of time to get set up properly.

The best teacher in this is experience. After a while seeing how different printers act when the baud rate is wrong, or the line feed is incorrect, it is possible to get a feel for printer setup. It is unfortunate that in making the Apple /// as flexible as it is, Apple created some difficulties in setup. In all fairness, Apple never intended that anyone but Apple dealers or computer professionals should have to configure a system with a new printer.

The bottom line, is that we suggest that you be very careful in purchasing a printer for an Apple ///. If you buy one new, you should insist on the appropriate driver (places like ON THREE and Sun Remarketing will supply them with printers), and if you buy a used printer, be certain to get the driver file from the prior owner as well as the manual! In the end, it may be best to stay with Apple printers because these are easier to set up, specific information is easily available for each, and they work well with the Apple /// while other printer may not. If you try everything we've outlined and still have problems, we suggest that you find help. A user group or other friendly /// users will usually give you a hand.

Continued from page 17

When doing this make sure that the wire is very firmly seated on the prong.

Likewise, to change a 220/240 volt power supply to run on 110/120 current, remove the wire from the 230V prong and place it on the 115V prong. It's as simple as that!

After making the change, put everything back together. Before continuing, you should mark (in indelible ink) the new voltage on the back of the power supply. If you forget, someone may attempt to connect the power supply up to the incorrect voltage.

This will surely damage the power supply and may harm your Apple /// as well. Because of this please remember to connect the modified power supply up to the correct

voltage before continuing.

Adjusting The Monitor

Because the Apple /// can operate at either 50 or 60HZ your monitor may need adjustment after changing the power supply to use a different voltage. Usually, a ROM chip inside the Apple /// is changed when moving from one voltage to another but this is not needed.

After turning on your Apple /// you will note that the monitor screen is illegible. If you adjust the horizontal and/or vertical hold, your screen will soon come into focus. If you change the voltage in your Apple /// power supply again, or move to a country that uses a different cycle (50 or 60 HZ) you will have to adjust the monitor once again.

Good luck with your freshly powered Apple ///!

Desktop Publishing With The Apple ///

by Edward B. Ash

The Apple /// As A Powerful DTP Tool

No doubt many of you Apple /// owners or users have had the need for some type of desktop publishing capability in order to produce bulletins, newsletters, announcements, ads or other material containing mixtures of text and graphics. My need came abruptly when I was elected as the secretary of my condominium association. One of my responsibilities was to publish a monthly newsletter for distribution to the 685 owners to inform them of happenings in our local area.

Ideally, a Macintosh™ would have been the answer. However, not having one, I turned to my trusty problem solver—the Apple ///! I have a 512K Apple /// with one external Drive ///. I use an Epson MX-100 dot-matrix printer for most printing. However, I also have a Qume Letter-Pro 20 printer for letter quality work.

My objective for the newsletter was to make it as interesting as possible by mixing text and graphics. I also felt that it should have a double column structure, since this format is highly readable and conducive to mixing text and graphics. The following summarizes the Apple /// software needed to do this job:

1. **A Word processor** - This, of course, is required to produce the text and control its layout on the page. I use Word Juggler for this purpose. I find it to be highly flexible. It has a **DISPLAY DOCUMENT** feature which shows the document on the screen exactly as it is to be printed. This feature is highly useful when deciding how to revise margins to make room for text, as I will discuss shortly. It is particularly beneficial when the printed text is wider than can be displayed on the screen. This situation commonly arises with a high printer pitch. Other word processors (e.g. Apple Writer ///, /// E-Z pieces) available for the Apple /// can be also used in place of Word Juggler. A speller program is desirable. The text needs to be in final form before any graphics are inserted. A spelling error or text change can cause a great deal of rework if it is found late in the process.

2. **The Graphics Manager program** - This super program, available from ON THREE, allows graphic im-

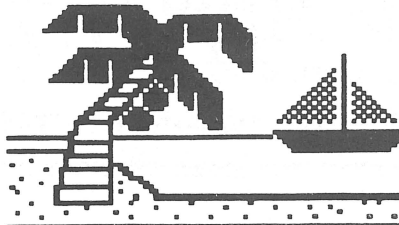
ages to be scaled, rotated and printed anywhere on a page. Fortunately, it was released right at the time my need for newsletter publishing arose. It is the *key element* required to utilize the Apple /// for desktop publishing.

3. **A collection of clip art** - A great deal of clip art work is available which is capable of being loaded into the Graphics Manager program. Clip art consists of pre-drawn images of various pictures recorded on floppy disks. Beagle Brothers sells three Minipix™ disks. Each disk has 201 excellent pre-drawn images. Broderbund Software® also sells three Print Shop™ disks, each with 120 images. These disks are all available for the Apple /// but are capable of being loaded into Graphics Manager and used with Apple ///. Together, these six disks provide over 950 clip art pictures. With them, I have found that there is always a piece of art available to illustrate what I want.

4. **The Draw On /// program** - This program, also available from ON THREE, provides the ability to draw your own individual art, if you are so inclined. I use it with either a mouse or a joy stick, however I find the joy stick to be most useful. Since I have no art talent, I use Draw On /// mostly to make simple modifications to standard clip art images.

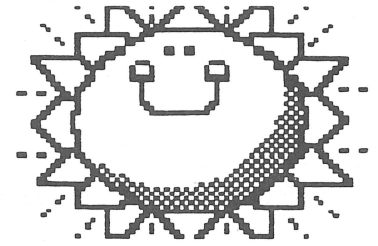
By first loading the Apple /// clip art image into Graphics Manager, I can then save the image to a disk which can be directly loaded into Draw On ///. I can then use Draw On /// to modify the image as required. It can also be used to combine several clip art images or add lettering. This capability provided by Draw On /// is not essential, but greatly expands the utility of the clip art by allowing tailoring to fit your own specific needs.

An example of a completed single page newsletter produced using the above tools is illustrated on Figure 1. I prefer the format of inserting the graphics into boxes near the left margin of each column as shown. However, it can be done in almost any manner, limited only by your own creativity. Let's now review the step-by-step process for



Villa Marina Council
4777 La Villa Marina
Marina del Rey, CA 90292

What's Happening



Sept, 1986

"Reasonable Limits" Initiative- We were fortunate to have Councilman Marvin Braude as the speaker at our August meeting. As co-sponsor of this initiative which will be on the November ballot, he made some key points: 1) it will cut the allowable building intensity in "neighborhood commercial" areas by one half. The intent is to avoid the traffic snarls created by high intensity developments such as on Ventura Blvd. It may be too late for our Westside area, where considerable development has already taken place; 2) It is the most fundamental land reform in the history of LA. It will take control of the planning process away from special interests; and, 3) it will apply to any project which is not under construction by November. Its impact on Playa Vista is uncertain since this project is covered by a special Development Agreement with the city.



Traffic Projects-Cal-Trans reports the status of several local projects: 1) Lincoln will be resurfaced from Jefferson to Fiji beginning about Oct.1. There will be some lane closure during the 65 day period; 2) the transition from the eastbound 90 to the southbound 405 is not estimated for completion until Spring, 1987; and, 3) bids for the dual left turn lane project from westbound Mindanao to southbound Lincoln were opened this month. This combined State/City project should start about Oct 1.

Prudential Project- Council Members held a meeting with Prudential and attended the Culver City Hearing on this project at Lincoln and Washington. It has been scaled down and proposed as a "mixed use" project, with a 12 story office building, a three story retail building (with two department stores) and a residential area with 500 units. Their traffic report (now in revision) shows the majority of the local intersections as near or over their capacity within 5 years, independent of whether or not this Project is developed. Mitigation measures by the developer would only provide "band aid" solutions. The Board has asked Mrs. Russell to address these traffic issues in her September talk to the Council. More information and discussions will be required before a council position can be formulated on the the Prudential project. The Culver City Planning Commission approved the basic concept, however they remain concerned about its density. Prudential's tentative plans call for a 2 year construction starting in June, 1987.

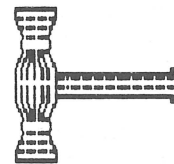
Bus Stuff- The council sent a strong letter to the RTD and elected officials opposing the proposed buslot locations in the Marina. Also, the RTD has proposed

cancelling the Marina Express line (#437) because of lack of funds, however the Council decided not to oppose this.

Recommended Home Services-There have not been a large number of responses to the Aug. request for data on your experiences with local service businesses. In order to make reporting easier, a form has been attached to this newsletter. **Please take some time to fill it out.**

Major Maintenance Headaches?-A Maintenance & Repair Advisory Committee has just been established to gather information and provide mutual assistance to Villa Boards in major areas such as roofing, painting, plumbing, lighting, tree trimming, etc. For more information you may call the Chairman, G.P. Hanes (Napoli), 823-9177.

Legislative Committee-Because of the increasing activities involving condominium legislation and lawsuits, a Legislative Committee has been established to keep us informed in this area. We are fortunate to have



members with both business and legal experience. Russell Dean (San Remo) and Helen Gallagher (Spezia) are the members. Its purposes are: 1) to obtain and disseminate external information on legislation, court rulings and litigation; 2) to establish communication with external civic, legislative or business entities for the purpose of pursuing specific issues; and, 3) to disseminate mutual assistance information between Villas pertaining to ongoing legal actions. It will also advise Villas on the availability of independent arbitration for resolving legal actions. If you would like to participate or discuss any matters with this Committee, contact its chairman, Russell Dean, 822-5705.

Home Security-The Aug. 24 LA Times reported on a garage door security device called "Shur-Latch" which is distributed by Sears and whose installed cost is less than \$40. The Council is working with Sears to see if the device is compatible with our doors. We will keep you informed.

Reminder-The next Council meeting will be at Burton Chace Park on Sept. 23, 1986 at 7:30 p.m. We are fortunate to have Pat Russell as our guest speaker to discuss her views on the "Reasonable Limits Initiative". Since her term will be up next year, it is an excellent opportunity to ask Mrs. Russell her position on some of our thorny local issues. We would like a good turnout for this important meeting. **Please put it on your calendar.**

Figure 1: Example Of Completed One Page Newsletter

producing this example newsletter using your ///.

15 PITCH
LEFT MARGIN 4
WIDTH 57
TOP MARGIN 12
LENGTH 53
JUSTIFY
PAUSE

"Reasonable Limits" Initiative- We were fortunate to have Councilman Marvin Braude as the speaker at our August meeting. As co-sponsor of this initiative which will be on the November ballot, he made some key points: 1) it will cut the allowable building intensity in "neighborhood commercial" areas by one half. The intent is to avoid the traffic snarls created by high intensity
LEFT MARGIN 20
WIDTH 41
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LEFT MARGIN 4
WIDTH 57
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Bus Stuff- The council sent a strong letter to the KID and elected officials opposing the proposed buslot locations in the Marina. Also, the KID has proposed

Figure #2: Margin Settings And Special Commands For First Column Of Sample Newsletter (Word Juggler commands in boldface)

Step #1 entails finalizing the text and checking spelling with the word processor. Don't worry about setting correct margins or formats at this point. Any convenient settings will suffice. At this point, it must also be determined which clip art images will be used and at what point they will be inserted into the text. In the example shown on Figure #1, three images are utilized. The wide image at the top of the page was produced by combining several individual clip art pictures with lettering using Draw On ///. The other two were unmodified clip art images.

Step #2 involves structuring the margins and other word processor commands to produce double column text with appropriate spaces reserved for the graphics. Referring again to Figure #1, I start at the beginning and set the margins for the left hand column of the first page.

Figure #2 illustrates (by the use of boldface type) the margins and other commands which have been set for use with Word Juggler. As can be seen, special RETURN's are also needed at several points in the text to allow correct setting of margins. The entire text is done using the JUSTIFY format to keep the column edges lined up. The margins are readjusted at each point where a graphics image is to be inserted, as shown in Figure #2. The example utilizes 15 PITCH so that the entire newsletter can be put on one page.

I use the DISPLAY DOCUMENT command of Word Juggler often during step #2 to be sure the margins are set properly to accommodate the graphics. A PAUSE command is placed at the beginning of the document to assure printing stops at the end of each column. This is necessary so that after printing the first column of the first page, the paper can be manually backed up in the printer to allow the second column to start at the top of the same page.

Continued on page 14

NEW PAGE

LEFT MARGIN 65
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LEFT MARGIN 81
WIDTH 41

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LEFT MARGIN 65
WIDTH 57

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Figure #3: Margin Settings And Special Commands For Second Column Of Sample Newsletter (Word Juggler commands in boldface)

Great Products For Your Apple ///

Productivity Tools

	<u>Price</u>	<u>S/H</u>
Apple File ///	\$99.00	\$7.00
BPI General Accounting	\$99.00	\$7.00
BPI Accounts Payable	\$99.00	\$7.00
BPI Accounts Receivable	\$99.00	\$7.00
BPI Job Costing	\$99.00	\$7.00
General, Payable, Receivable Bundle	\$199.00	\$10.00
Draw On ///	\$99.00	\$5.00
Draw On /// Graphics Tablet Version	\$99.00	\$5.00
Mail List Manager	\$99.00	\$7.00
Quick File ///	\$50.00	\$7.00
Side Print ///	\$29.95	\$3.00
Lets you print wide /// E-Z Pieces & VisiCalc files sideways		
StemSpeller ///	\$49.95	\$5.00
Lets you spell check /// E-Z Pieces word processor files		
StemWriter ///	\$79.95	\$7.00
The Communications Manager	\$39.95	\$3.00
The Graphics Manager	\$29.95	\$3.00
/// E-Z Pieces	\$135.00	\$3.50
/// E-Z Pieces & StemSpeller Bundle	\$169.95	\$7.50

Utilities

Backup ///	\$49.95	\$3.00
Lazarus /// File Recover Utility	\$39.95	\$2.00
RAM Diagnostic Disk		
Specify 128K, 256K or 512K version	\$15.00	\$2.00
Selector /// Program Switching Utility	\$69.95	\$7.00
UnCopyProtect Driver	\$29.95	\$3.00
Make backup copies of AppleWriter, VisiCalc & Advanced VisiCalc For stand-alone use or for with Selector ///		

Games

BattleFleet	\$19.95	\$2.00
Card Machine (Black Jack)	\$24.95	\$2.00
Crossword Scrambler	\$9.95	\$3.00
Fruit machine (The Slots!!!)	\$19.95	\$2.00
Sandman (xxx-man Arcade game)	\$19.95	\$2.00
Game Combo (All of the above games)	\$49.95	\$3.00

The Desktop Manager Desk Accessories that can be used within all Apple /// programs

Main Accessories	\$69.00	\$6.00
Includes Note Pad, Appointment Calendar, Calculator, the text pickup & paste utility and an automatic installation program		
Disk Manager	\$24.95	\$3.00
Provides System Utilities commands at any time		
Macro Manager	\$24.95	\$3.00
Provides powerful macros within all programs		
Communications Manager	\$39.95	\$3.00
Gives powerful communications within all programs		
ASCII Conversion Table	\$4.95	\$3.00
Super Accessories No. 1	\$29.95	\$2.00
Includes Printer Setup, TypeWriter, Envelope Labeler, New Desktop Setup, Make Subdirectory and Menu Manager that allows an unlimited # of accessories		

Super Accessories No. 2	\$19.95	\$3.00
Includes File View, File Print, Change Font, Show Time, Change File Type, Print Screen, Reload & Exit, PKASO/U and Warning		
Super Accessories No. 3	\$24.95	\$3.00
Includes Accessory Manager, Character Rulers, Hex View & Print, Info Help, SOS Errors, Block View/Edit The Graphics Manager		
Print any graphic image in any size on most printers	\$29.95	\$3.00
Sandman (xxx-man Arcade game)	\$19.95	\$2.00
TDM /// Tool Kit for programmers	\$19.95	\$2.00

Hardware Products

Apple /// with 256K and monitor	\$399	\$35
Apple /// with 512K and monitor	\$799	\$35
512K Memory Upgrade	\$399	\$10
256K Memory Upgrade	\$169	\$10
128K Memory Board	\$15	\$10
512K with 0K of memory	\$159.95	\$10
512K with 256K of memory	\$299.95	\$10
Memory Board Insurance (1 Year)	\$50	\$10
512K or 256K installation	\$25	\$35
ON THREE O'Clock/Calendar Kit	\$39.95	\$3.00
Interlace Kits	\$75.00	\$3.00
CP/M Card With Complete Docs.	\$99.00	\$7.00
Parallel Interface Card and driver	\$79.95	\$6.00
Seikosha Color Printer with interface card and the Color Graphics Manager	\$259.95	\$20
Replacement color ribbons	\$25.00	\$4.00
Ribbon inker for color ribbons	\$20.00	\$3.50
Silentype thermal printer	\$49.95	\$10.00
Silentype paper (1 roll)	\$5.99	\$2.00
Sider 20 Hard Disk drive with interface card and the driver & documentation	\$899	\$35
Sider 40 Hard Disk drive with interface card and driver & documentation	\$1199	\$35
Apple UniDisk ///.5 800K 3.5 " drive with interface card and driver software	\$499	\$10
UniDisk ///.5 Driver & Documentation	\$50	\$3.00
CPS 800K 3.5 " drive with interface card and driver software	\$399	\$10
CPS interface card & driver only	\$149	\$5.00
Connects any 2 Mac 800K, 400K or Apple II 140K drives		
CPS 800K 3.5 " drive only	\$249	\$6.00
CPS 400K 3.5 " drive only	\$145	\$6.00
CPS 140K drive only	\$139	\$6.00
CPS Driver & Documentation only	\$50	\$3.00
Apple //e Mouse & Interface Card		
Use with Draw ON ///, TDM & Games	\$160.00	\$5.00
TrackBall /// - Use with Draw ON ///, TDM, Games and all other /// programs	\$89.95	\$6.00
1200 BAUD Modem with cable	\$149.95	\$10.00
2400 BAUD Modem with cable	\$249.95	\$10.00
The above modems include the Communications Manager		
Titan ///+//e (Apple //e Emulation)	\$399	\$10.00

Miscellaneous Products And Services

Apple /// Beginner Pack	\$99.00	\$7.00
Includes McGraw Hill Guide to the Apple ///, Lazarus, ThreeWorks, System Utilities Product Training Pak, Will Someone Tell Me What An Apple // Can Do? guide, Cross-Word Scrambler, Mr. Sandman, Card and Fruit Machine games. Normally over \$200!!!		
McGraw Hill Guide To The Apple ///	\$29.95	\$3.00
System Utilities Product Training Pak	\$14.95	\$3.00
ThreeWorks (requires /// E-Z Pieces)	\$39.95	\$3.00
Bibliography of everything ever done for the Apple ///		
Disks Of the Month	\$9.95	\$2.00
Taken from the pages of ON THREE Magazine		
#1 Disk Pak 1, Key Things Graphics Demos & More.		
#2 DOS File Lister, CharDownLoad, Graphic Demos +.		
#3 Keyboard Change Utility, WPL utilities, Graphic Sketcher ///, Disk Formatting Utility.		
#4 Emulation Patch, Access /// Startup, Pascalculator, Radiate Graphic Demos, Musical melodies, graphics.		
#5 Access /// Startup, Ben's Super Slot Machine, PFS-WPL Merge, Decision Support Spreadsheet, Draw ON demos.		
#6 Basic Program Lister, NoiseMaker, Spirograph, Surface, Golfball graphic demos and Draw ON pictures & fonts.		
#7 Imagehelper, Sorting and Printer Control.		
#8 Directory Sorter, Drive Cleaner and File Reader.		
#9 Graphics, Music and more.		
#10 Graphics Football Pool, Useful Pascal Prompt		
#11 Apple DMP, ImageWriter, Epson graphics printing utility. Graphics and audio demos.		
#12 Lottery number picker, Two-way directory catalog, Find Text Files on disk, Print Files To Screen or disk.		
Standard Device Drivers Manual	\$39.95	\$3.00
Dust Cover for Apple ///	\$11.95	\$2.00
Dust Cover for Apple /// with profile	\$12.95	\$2.00
I Love My Apple /// T-Shirts sm., med., lg., yellow, blue, white, tan	\$11.95	\$3.00

I Love My Apple /// Sweatshirts small only yellow, blue, white, silver	\$18.95	\$3.00
ON THREE back issues	\$5.00	each
ON THREE Binders	\$9.95	\$3.00
ON THREE subscription	\$30.00	per year
Resource Guide for the Apple ///	\$15.00	\$3.00
"Will Someone Please Tell Me What An Apple /// Can Do?" Program Guide	\$3.00	\$2.00

Programming & Languages

Apple /// Pascal	\$99.00	\$5.00
Pascal Debugger version 1.2 (Update)	\$49.95	\$7.00
Business Basic	\$99.00	\$5.00
Cobol ///	\$99.00	\$5.00
Apple /// Fortran (req. Pascal)	\$99.00	\$5.00
Device Driver Writers Guide	\$29.00	\$3.00
SOS Reference Manuals	\$59.95	\$3.00
Service Reference Manual & Schematics	\$49.00	\$5.00

Program Updates

With your order you must send in your original disk to verify ownership for the updates listed below:

Apple Writer 4.0	\$15.00	\$2.00
Lets you use the full memory, wide columns and more!		
Business Basic version 1.23	\$15.00	\$2.00
Lets your Basic programs be larger than 64K		
Draw ON /// Printer Update	\$15.00	\$2.00
Lets you use Draw ON with different printers		
Graphics Manager (Color or B/W)	\$15.00	\$2.00
PFS: File, PFS: Report	\$15.00	\$2.00
Copyable and installable under Catalyst or Selector ///.		
PFS: Report can't be installed under Catalyst.		
Word Juggler	\$15.00	\$2.00
Copyable and installable under Selector /// (256K or 512K)		

Order Form

ON THREE, Inc.
ATTN: Order Dept.
P.O. Box 3452
Kirkland, Washington 98083 U.S.A.

Order by calling TOLL FREE: (800) 443-8877
In Washington: (206) 823-0516
Customer Service: (206) 823-0516
Technical Help: (818) 701-1355

Phone in an
ORDER TODAY!
Ask About Our Quantity Discounts!

VISA, Master Card, American Express, money orders and personal checks accepted. Add \$3 for C.O.D. Add 3% surcharge to total on orders charged to American Express. CA residents must add 6.5% sales tax, WA residents must add 8.1% sales tax. Overseas customers can pay by credit card, international money order, a check drawn on a U.S. bank or bank transfer. Call first to ascertain foreign shipping costs and mode of transport. Returns must have prior approval and are subject to a restocking fee. We do not copy-protect any of our software products so there are NO returns allowed on software. Not responsible for typographical errors. Please allow up to eight weeks for delivery as some items may be backordered.

QUANTITY	PRODUCT DESCRIPTION	EACH	TOTAL	SHIPPING
Name _____		PRODUCT SUB TOTAL		
Company _____		SHIPPING SUBTOTAL		
Address _____		C.O.D. (\$3.00)		
City _____	State _____	Zip _____	CA 6.5%, WA 8.1% TAX	
Credit Card _____	Card No. _____	3% AM/EX SURCHARGE		
Exp. Date _____	Phone _____	GRAND TOTAL		

If you have a bi-directional printer (my Qume printer has this feature), a command can be inserted at the bottom of the first column to automatically backup the printer paper to start the second column at the top of the first page. Once the margins for the first column are set, the second column margins are then set as shown in Figure #3. They are adjusted so that the entire column is moved over to print on the right hand side of the first page with suitable spacing between the first and second columns. Graphics may also be inserted into the second column by the appropriate margins, as shown on Figure #3.

This same procedure is used to adjust each column of any subsequent pages. The result is a completed set of text which is ready to print. Oftentimes, after reviewing the layout and number of pages involved in this final document, I go back and add or remove graphics or adjust the print pitch to lengthen or shorten the document.

In Step #3, the completed text is printed. I use my Qume letter quality printer for this purpose, however any printer can be utilized.

After the first column is printed, the printer should be backed up to the top of the page and the second column printed on the same page. In this manner, pages are printed with the final result as shown on Figure #4. It is important at this point not to remove the perforated edges of the paper since the tractor drive on the printer is needed again to overlay the graphics.

Step #4 entails the printing of the graphics in the spaces which have been reserved for them. Each selected clip art image to be used is separately loaded into Graphics Manager, starting with the image to be placed closest to the top of the first page. The dimensions of the desired image, along with its exact placement on the page should be carefully measured with a ruler from the text printout shown on Figure #4.

By using the straightforward command structure of Graphics Manager, each image can then be printed in the space reserved for it on the page. I use my Epson MX-100 for the images, since a dot-matrix type is required for printing graphics.

Precise measurements are required here and the paper must be carefully set in the printer. I have found that Graphics Manager is very accurate in placing the image in the required spot and making it the correct size.

The final newsletter is shown on Figure #1. I take the master copy of the newsletter to a printer and have the required number of copies made on colored paper. The entire process sounds somewhat complex. But after a short learning period, an entire four page newsletter can be done in 3-4 hours. I'm sure those who have a hard disk & Macro Manager can find ways to shorten this process.

After once learning the techniques of mixing graphics and text, I have found a number of other uses, including making announcements, letters, greeting cards, place-cards, posters, certificates and ads. The addition of graphics to otherwise boring text makes it infinitely more interesting. Applications are limited only by your own creativity.

It's *not* a Macintosh but it sure does the job!

"Reasonable Limits" Initiative- We were fortunate to have Councilman Marvin Braude as the speaker at our August meeting. As co-sponsor of this initiative which will be on the November ballot, he made some key points: 1) it will cut the allowable building intensity in "neighborhood commercial" areas by one half. The intent is to avoid the traffic snarls created by high intensity developments such as on Ventura Blvd. It may be too late for our Westside area, where considerable development has already taken place; 2) It is the most fundamental land reform in the history of LA. It will take control of the planning process away from special interests; and, 3) it will apply to any project which is not under construction by November. Its impact on Playa Vista is uncertain since this project is covered by a special Development Agreement with the city.

Traffic Projects-Cal-Trams reports the status of several local projects: 1) Lincoln will be resurfaced from Jefferson to Fiji beginning about Oct.1. There will be some lane closure during the 65 day period; 2) the transition from the eastbound 90 to the southbound 405 is not estimated for completion until Spring, 1987; and, 3) bids for the dual left turn lane project from westbound Mindanao to southbound Lincoln were opened this month. This combined State/City project should start about Oct 1.

Prudential Project- Council Members held a meeting with Prudential and attended the Culver City Hearing on this project at Lincoln and Washington. It has been scaled down and proposed as a "mixed use" project, with a 12 story office building, a three story retail building (with two department stores) and a residential area with 500 units. Their traffic report (now in revision) shows the majority of the local intersections as near or over their capacity within 5 years, independent of whether or not this Project is developed. Mitigation measures by the developer would only provide "band aid" solutions. The Board has asked Mrs. Russell to address these traffic issues in her September talk to the Council. More information and discussions will be required before a council position can be formulated on the Prudential project. The Culver City Planning Commission approved the basic concept, however they remain concerned about its density. Prudential's tentative plans call for a 2 year construction starting in June, 1987.

Bus Staff- The council sent a strong letter to the KID and elected officials opposing the proposed buslot locations in the Marina. Also, the KID has proposed

cancelling the Marina Express Line (#437) because of lack of funds, however the Council decided not to oppose this.

Recommended Home Services-There have not been a large number of responses to the Aug. request for data on your experiences with local service businesses. In order to make reporting easier, a form has been attached to this newsletter. Please take some time to fill it out.

Major Maintenance Headaches?-A Maintenance & Repair Advisory Committee has just been established to gather information and provide mutual assistance to Villa Boards in major areas such as roofing, painting, plumbing, lighting, tree trimming, etc. For more information you may call the Chairman, G.P. Hanes (Napoli), 823-9177.

Legislative Committee-Because of the increasing activities involving condominium legislation and lawsuits, a Legislative Committee has been established to keep us informed in this area. We are fortunate to have members with both business and legal experience. Russell Dean (San Remo) and Helen Gallagher (Spezia) are the members. Its purposes are: 1) to obtain and disseminate external information on legislation, court rulings and

litigation; 2) to establish communication with external civic, legislative or business entities for the purpose of pursuing specific issues; and, 3) to disseminate mutual assistance information between Villas pertaining to ongoing legal actions. It will also advise Villas on the availability of independent arbitration for resolving legal actions. If you would like to participate or discuss any matters with this Committee, contact its chairman, Russell Dean, 822-5705.

Home Security-The Aug. 24 LA Times reported on a garage door security device called "Shur-Latch" which is distributed by Sears and whose installed cost is less than \$40. The Council is working with Sears to see if the device is compatible with our doors. We will keep you informed.

Reminder-The next Council meeting will be at Burton Chace Park on Sept. 23, 1986 at 7:30 p.m. We are fortunate to have Pat Russell as our guest speaker to discuss her views on the "Reasonable Limits Initiative". Since her term will be up next year, it is an excellent opportunity to ask Mrs. Russell her position on some of our thorny local issues. We would like a good turnout for this important meeting. Please put it on your calendar.

Figure #4: Printed Text Without Graphics Overlay

Ranntings

by Richard and Lavona Rann

The History Of SOS And It's Future

We have written a number of times about the history of Apple, and about the people who created the company. It is an amazing story all by itself, the story of a couple young people literally creating a revolution. While we are not down playing the contribution of Steve Wozniak and Steve Jobs, there were many other people who made contributions to Apple's unprecedented success. Today, many of those people are still there, and are still helping make Apple grow and change.

Over the nearly twelve years now that Apple has been a business, a number of changes have occurred. Once Apple was a collection of young people with a mission. Today, that is as true as it once was, but there is more to the story. Apple has changed over the years as its employee mix has changed. Apple is now a mature company, both as a corporation and as a mix of people. Older people, with experiences different than those of the early Apple employees are changing the "look and feel" of Apple. The old goal of Apple is still there. Apple still wants to change world. So much so that they proclaim it in a bumper sticker that proudly proclaims, "Changing the World One Person at a Time."

One of the most important things Apple did in those first five years, and Apple did many things that were important, was to develop SOS (Sophisticated Operating System of the Apple ///). This may seem a bit of an exaggeration when we consider the fate of the old Apple ///, but it is something we feel strongly about, and a position we feel that we can defend.

Certainly there are a lot of important firsts for Apple. Products with inventive engineering, new technology and fresh approaches to computing. Even so, SOS was the single development from those first 5 years that has worked its way into nearly every corner at Apple and many at other manufacturers.

As we all know, the SOS operating system was developed at the end of the '70s to be the foundation of the computer that would replace the Apple II. As such, a lot of effort went into developing an operating system that

was extremely flexible and essentially open ended. The resulting system filled both of these goals perfectly and proved to be amazingly adaptable. We've all had experience with the pliable nature of SOS. It is at the same time its major advantage as an operating system, and its major disadvantage. Along with adaptability came complexity. That which gives us power to change our system requires that we understand how to make the changes.

As the Apple /// proved not to be the sales success that Apple had intended it to be, Apple was faced with a problem. Whatever they did now would have to have the flexibility of the Apple ///, but hopefully, without the complexity of setup and the user need to learn the operating system. That was Apple's goal. In the short term though, Apple had to improve the Apple II line. The solution was to write a modified SOS for the Apple II.

The first ProDOS was not the perfect solution. It was limited by the Apple II hardware. Still it was a vast improvement of DOS 3.3. It allow memory to be added and the system to be customized with just software rather than having to add hardware cards. Yet an Apple // with ProDOS 1.0 wasn't as powerful as the Apple ///, nor as flexible.

A major part of the problem was the Apple II hardware, or at least, it was until the development of the new Apple IIGS. With this machine and the newest rewrite of SOS called ProDOS 16 the Apple II line is finally robust enough to compete with the Apple ///.

For the first time Apple II hardware is capable of doing exactly what Apple /// hardware can do and then some. Not bad for the Apple ///, it took Apple a number of years to get to this point and ProDOS 16 still has many improvements needed and on the drawing boards.

The Apple IIGS has a future. Soon, perhaps by the time this column appears in print, a major rewrite of ProDOS 16 will be available. In function and flexibility, it will be much more like SOS. Of course these similarities will be

hidden under layers of folders, icons, and user friendly features, but the SOS structure is still the bedrock that underlies ProDOS 16. For the foreseeable future Apple will add power to the Apple II operating system without tampering with the basic structure of the underlying design. SOS will remain at the heart of the Apple II for many more years.

While ProDOS was under development Apple was involved in another project, the Macintosh. This would prove another leap forward for Apple. Conceptually it was a radical change for computers. To make the Macintosh work Apple had to incorporate elements that other computer makers had been ignoring for years.

Compared to the Apple II and Apple ///, the Macintosh was a tremendous step, but these things are not always what they seem. In the Mac, Apple created a new way of presenting to the user things that were doing in its other computers. What was different was the point of view not the actions.

The early Macintosh interface was designed purposely to be different than what was happening in the Apple II-Apple /// side of Apple. What was looking outward to greater flexibility in one part of Apple was encircled by boundaries on another. Remember that the first Mac 128 was a computer limited in many of the same ways those first Apple II's were. While that Apple was a leap in imagination, its limitations kept it from being a computer accepted by business. The criticism of that early Mac as limited and closed were valid. It was a mistake for Apple not to have seen the limitations.

Over the past four years Apple has been opening the Mac architecture making it expandable and easier to modify to specific uses. To a some extent this has been done by integrating the best of "Apple ///ness" into the Mac operating system. A hierarchical file structure, and changeable drivers are both concepts pioneered on the Apple /// that are now part of the Macintosh operating system.

It is amazing that under all the twists and turns of Apple technology that the /// still lives. We can justly feel proud of the ideas embodied in our Apple ///'s because they are still an important part in the success of Apple and will be for years to come. It is inevitable that the future will work against us. It is no mystery that Apple is working on new

interfaces; they've even make some of their concepts public as they attempt to predict what the nature of computing will be like in five years and as far as a couple decades into the next century.

This will likely mean that the Apple /// and SOS will be pushed further into the background as newer operating systems contain additional concepts and features. A lot of Apple's effort looks far down the road to distant possibilities with voice activation, artificial intelligence, and a world linked through computers.

Apple expects to hire more than a thousand new employees this year, the majority of them in Research and Development. Many will be working on projects that were inconceivable in 1979 when SOS was beginning. Many of those people will not know what an Apple /// is, or how it works. Yet, they will be working in an environment made possible in part by SOS. While there is no doubt that the affects of SOS on new Apple computers will gradually fade over time; they are amazingly resilient ideas and they still underlay a good number of Apple's operating system techniques.

We were present at the birth of these ideas. If we watch very carefully, we may see the decedents of those concepts incorporated into new products. As long as this goes on the Apple /// will never be really dead.

Editors Note: A short time ago Apple did release an updated version of ProDOS 16 for the Apple IIGS. They called it GS/OS. Some pronounce it 'gee-ess-ohh-ess', others 'gee-sauce'. For the first time the operating system on the Apple II has surpassed the older technology of SOS on the Apple ///.

GS/OS has the familiar elements of SOS, such as drivers like .CONSOLE, .PRINTER and other interesting items. It also has something called File System Translators which allow an Apple IIGS program to access information on different file systems (MS-DOS, Macintosh etc.) without knowing that it was using a PC or a Mac disk!

We will cover this new and very important piece of software in a future issue. For now, a call for those of you thinking about switching machines: The Apple IIGS is now very close to the Apple /// in terms of its operating system. If you like the features of SOS, you'll love the new GS/OS on the Apple IIGS.

110 <-> 220 Volt Conversions

by Bob Consorti

Moving Your Apple ///

Many Apple /// users have picked up spare ///'s that were earmarked for the Europe or Asian markets but never got over there. Other Apple /// users have moved to countries that have 220/240 volt power. This article is geared for those of you who want to convert the power supply in your Apple /// either to or from 220/240 volt operation.

The Apple ///'s power supply can operate at either 110/120 or 220/240 volts, with either 50 or 60HZ cycle times. These voltage ranges allow the Apple /// to be moved to virtually any part of the world without problem and with only minor modifications.

Before we begin you should first make sure that the Apple /// is OFF and the power cord is disconnected for at least one hour. There are dangerous voltages in the power supply and taking it apart with the power cord attached and/or the power supply turned on can be fatal.

Please be very careful if you attempt this procedure as ON THREE can not be held liable for personal or property damages incurred by this conversion. After opening up the power supply do not touch any of the components of the power supply except those indicated in the procedure below.

Additionally, the Apple ///plus has a power supply that can't be manually changed to a different voltage. If you have a ///plus and want to convert it, you must replace its power supply with a regular Apple /// power supply. Please note that you when replacing a ///plus power supply with a regular Apple /// power supply, the ///plus connector has an extra position. The female socket position at the end closest to the power supply switch (looking from the front going back), should be free. That is to say it should not be attached to any prong from the regular Apple /// power supply.

The Apple /// power supply is located on the left side of the bottom of the Apple ///. It is held in place by a small panel that is attached to the Apple /// chassis by 10 screws. If you remove those screws using a standard

Phillips-head screwdriver you will be able to lift the power supply a short way from the chassis.

The cable that supplies power to the Apple /// main logic board will be attached to the power supply and held in place by a small plastic restraint. If you use a pair of wire cutters you can clip the plastic restraint holding the cable in place. Be careful not to cut into the cable itself but only the plastic restraint.

After cutting the restraint you can disconnect the cable from the power supply as shown in Figure #1. Please note the orientation of the cable. It is very difficult to insert it the wrong way, but damage can be done if it is incorrectly placed and the power supply is turned on.

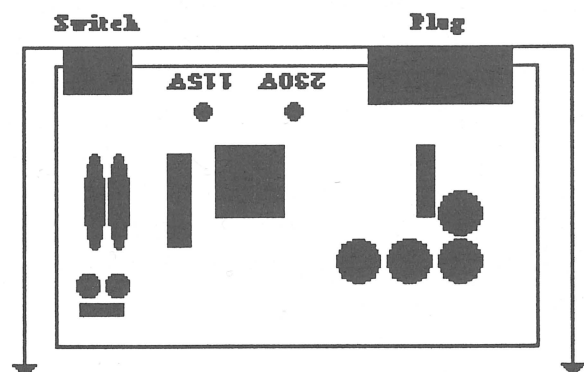


Figure #1: Apple /// Power Supply Connectors

After removing the power supply from its restraints you can then make the change from one voltage to the other. As Figure #1 shows, the back part of the power supply, between the on/off switch and the power cord connector, holds three prongs. If you have a power supply that is set for 110/120 volt operation, the wire from the switch will be connected to the prong labeled 115V. If you have a 220/240 volt power supply the wire should be connected to the prong labeled 230V.

To change the voltage setting simply pull off the wire from one prong and place it firmly on the other prong. Thus, if you have a 110/120 volt power supply and want to change it for 220/240 volt operation unplug the wire from the 115V prong and place it on the 230V prong.

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"Oh, an Apple][!" he exclaimed. Now Kent had his answer. He picked up the Imagewriter and walked off to another desk. He connected it to a cable coming from an Apple][c. In a moment's time, the][c was booted up with Appleworks. Kent instructed Appleworks to print and my Imagewriter began to buzz. Out came beautiful, intelligent English. Kent was astonished. "I'd better contact AppleLink. Call me tomorrow."

After a totally sleepless night, I called Kent first thing in the morning. He had no response from Apple and wanted me to call again the next afternoon. Agony of agonies! The next day I called Kent once again. "What did you hear from Apple?" I asked breathlessly. "Oh, some wishy, washy stuff about checking the cable, but we already did that." Kent responded. "Where do we go from here?" I asked. "We have some Mac Plus to Imagewriter I cables on order. Maybe they will help since they come from the factory." "When will they be in?" I asked. "Three or four weeks." Kent responded casually. "Three or four weeks!" I yelled. I was frantic. I think it showed in my voice. "But, I need to print now!"

"If you want to print this minute than you'll need to buy an Imagewriter II. I know that it will work with a Mac." Kent responded. I hung up the phone exasperated. I had thoughts of taking my Mac, mouse, icons and all, back to Computer Heaven for a full refund. My Apple /// was beginning to look awfully good again. So good, in fact, that the Mac was put back into its box and relegated to a dark corner in the garage. The Apple /// was returned to its place of honor on the computer desk with the Imagewriter reconnected. There it was again, that snicker. I'm sure I heard it!

Perhaps you're wondering how all of this got resolved. Let me assure you that it did. Final bliss came from a chance call from a friend some 200 miles away. He had gotten me over some tricky humps when I first tried to put my Apple /// system together. It only took him 10 minutes to figure out the problem. Two pins in Computer Heaven's Mac Plus cable chart were reversed! Perhaps you guessed as much. I wonder how many cables they made up and sold with reversed pins. But that is another story.

My Mac Plus and I are getting along very well now. It is back in its place of honor on the computer table in the study. I have bought more software and have become very productive with it. You're no doubt wondering about the Apple ///. I'm happy to report that it is alive and doing quite well. The Apple /// now adorns my desk at work. It handles my daily work computing needs, while the Mac takes over at home. I use modems on both machines to send files back and forth. In fact, this story was written on the Mac Plus and transmitted to the Apple /// for

final editing. My Apple /// and Mac Plus are now the best of friends working together in perfect harmony. I like stories with happy endings.

I think that there is a moral in all of this. Computers are ever growing and ever changing machines. Today's high tech wonder is tomorrow's orphan. But no matter what the changes, with a little care, a good machine can be depended upon perform just like it did fresh out of the box no matter what the newest technology is doing.

Make no mistake, I truly like my Macintosh. But my Apple /// will not outgrow its usefulness. Like a first love, I will never forget what it meant to me. And I keep coming back to it to fill in the blanks in my computing needs. I guess what they say really is true - the Apple /// lives forever!

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In This Issue...

The Rann's finish the second part of their article on connecting a printer to the Apple ///. If you've tried to tackle this sometimes awesome task, give it a look.

A first time author to the pages of ON THREE graces us with a discussion of desktop publishing and the old Apple ///. In it, Mr. Ash presents us with a variety of useful ideas in getting the old Apple /// to do DTP (DeskTop Publishing).

If you're one of the fortunate few moving out of the country with your /// or trying to get a /// purchased overseas working, then check out the article on 110 <-> 220 Volt Conversions.

As a holiday tale, Jeffrey Fritz tells us of the trials and tribulations of yearning for an Apple /// and living in a household with a Mac and Apple /// side by side.

A short Basic program that shows you how to use the not very well known color text mode of the Apple /// is presented by Thomas Johnson.

Finally, William Linton gives us some insights into the Apple /// as it goes to church, appropriate for the holiday season.

To all of you from myself and my family, have a happy holiday and a wonderful new year.

Three Attack

by Jeffrey Neil Fritz

An Apple /// Fable

I'll admit it. I like to think of myself as a computer hacker. Not the kind of hacker who types away in the wee hours trying to break down code or overcome some new copy protection scheme. I'm a lover of warm, cuddly computers that glow in the dark.

The computing bug bit and bit hard in 1981 while I was living in San Francisco. My friend, Brent, had accepted employment at a young, start up company called Apple Computer. Apple gave Brent a new computer called the Apple Three. Brent, in turn, offered me my first exposure to personal computing. Brent was in every sense of the word a "computer evangelist". He got far more pleasure watching people operate his great new machine than from using it himself.

I was fascinated from the start and began making regular trips over to Brent's house just to be close to his ///. The more involved I became, the more my love for the /// deepened. I knew that someday, somehow, I just had to have a /// of my own. There was simply no other computer like it in the world! When Brent offered to lend the machine to me, I immediately purchased a carrying case so I could tote his 26 pound not-so-portable /// to and from my home. My back still gives me trouble because of it!

One day I called in sick and made a bee line for my local Apple dealer. There she was, the Apple ///, her screen all aglow with Visicalc ///. She was totally lovely. I sat down in front of her and attempted to enter a row of numbers across her dainty screen. My heart palpitated, my breath shortened. I completely forgot about the time. It was love at first sight. Suddenly, I was startled by a tap on my shoulder.

"Excuse me, sir." It was the dealer. There was an impatient look on his face. "You've been at the computer for over an hour. There are other customers who would like to try out the Apple ///. If you are not going to purchase a unit, would you kindly step aside and let the others try the machine out for themselves?"

True love runs deep, but is seldom cheap. Purchase the ///? Oh, if only I could! The price of the 128K /// was \$3,495 plus \$320 for the Monitor ///. Add \$3,499 for the 5 megabyte ProFile hard disk, which I just had to have, plus tax; and the total came out to \$7,789. That figured out to \$61 per kilobyte - without software! No, sad to say, purchasing a /// was completely out

of the budget and the question. I reluctantly left the computer store and headed home.

I never lost my yearning for the Apple ///. Sometimes I would express my desire clandestinely. A stolen glance at a /// while at a computer store, or an envious look at a friend's brand new ///. Hours were spent reading "ON THREE" magazine or just day dreaming. One day, a covert plan began to hatch in my head. If I couldn't afford a ///, maybe I could persuade my company to purchase one for me.

What could a mere eight grand mean to a company whose annual budget was over three million dollars! As head of administration, I certainly could make good use of a ///. Why, just think of the fantastic increase in productivity and greatly reduced labor costs the /// would bring! My argument was unassailable! The CIA would have been proud of me.

Thus began my /// Attack. I dropped hints among my co-workers and sent out memos citing our company's need to join the computer revolution. I anonymously sent an article called "Apple's Revolution in Computing" to Marty Snowsen, the company's Executive Director. One day, gathering all my courage I decided to face Mr. Snowsen head on.

"Look", I said, "these are the days of computer literacy. We need to be on the fact track with the computer revolution. I have found a computer, the Apple ///, that will do it all for us. Why, with just one of these baby's, we will significantly increase our income while at the same time dramatically decreasing our costs. This is the computer that will make ours the most efficient company in the Bay Area!"

His response was direct and insurmountable. "Computers make people into mindless idiots. Make no mistake, I will not have mindless idiots working for me!" I certainly didn't want to be regarded as a mindless idiot and I don't like making mistakes, so I quit my job.

It wasn't long before a new job offer came my way. This was an opportunity to manage a chain of twelve restaurant franchises. The job required tracking, in detail, each restaurant's expenses and income. It would be my responsibility to thoroughly monitor each franchise and issue daily summary reports to Ray Heckuknow, the company president. It was a

perfect job description because it cried out for a personal computer to make it all happen.

I made a frontal /// attack on my employer-to-be. "If I accept your offer, Mr. Heckuknow, I will require the full time use of a personal computer." I leaned back in the chair awaiting his response. A smile came over his face and he nodded in agreement. "Why, of course! You couldn't be expected to function without one!" I had hit pay dirt! Soon an Apple /// would be sitting on my brand new executive desk.

My joy was a bit premature. Mr. Heckuknow it turns out, was color biased. He had a distinct preference for the color blue along with three initials, "IBM". "Here", he opened his desk drawer and thrust an IBM data sheet at me. "We will purchase a fully loaded IBM AT with a 40 megabyte hard disk and color monitor." "But, I don't like IBM!" I protested, "And PC-DOS is such a dumb operating system. An Apple /// would work out so much better!"

He gave me a fatherly smile. "Nonsense.", he said, "An IBM computer is like the restaurant business. Stable. No matter what the economics, people always have to eat. Just as restaurants can be counted on to turn a profit, IBM can be counted on to always be there when you need them. IBM, wasn't started by two brats in a garage you know!"

Two brats in a garage indeed! What an insult to the fathers of the world's greatest computer. I decided not to accept the position. To do otherwise would have been the most insidious form of betrayal. Six months later I heard that the new tax laws had adversely effected the restaurant chain. Mr. Heckuknow had to sell off all of the franchises at a considerable loss. He lost a bundle. All his IBM PCs were repossessed.

A year later, I was seated outside the office of another president during yet another job interview. This company was a state wide radio network. "Mr. Biller will see you now.", his secretary announced. I was ushered into a lavishly furnished office. There, sitting on a highly polished credenza, was a fully equipped Apple][e complete with a ProFile hard disk.

Mr. Biller extended his hand. "Welcome! Before we talk, let me take you for a tour of our network facility." We walked from his office directly into the sales office. I could hardly believe my eyes. On a large desk was (gasp) a Apple /// Plus. Next to it was a Imagewriter printer. A few feet away at another desk was a second /// Plus. I had died and gone to heaven! Who cared about salary, hours, fringe benefits or vacation time - this was the job for me! I accepted the position immediately!

It took only a few weeks to re-engineer my /// attack. I dusted

off the memo that I had sent to Marty Snowsen, updated it and sent it off to Mr. Biller. Finally I had found a company that was prepared to make make my dreams come true. I could hardly wait for his reply.

That afternoon I received a call from Mr. Biller's secretary. Mr. Biller wanted me to come to his office immediately. I opened my desk drawer and brought out a meticulously maintained file on the ///. It contained the latest /// fact sheet complete with prices. I straightened my tie and headed for Mr. Biller's office.

I knocked, quickly opened his door and announced "You wanted to see me, Mr. Biller?" He looked up from the paper work on his desk. There it was, right on top of the stack, my memo requesting the /// Plus. "Sit down, please." I did so immediately. "So, you want us to buy you a computer?" "Yes, sir!", I replied. This was my moment. After all those years and fruitless attempts, my passion was about to be consummated. In a matter of hours a /// would be mine! Mr. Biller seemed to be in distress. I was sure that his lunch must have disagreed with him. "You know, these are hard times in the radio business. We have to measure each and every expenditure more carefully then ever."

I couldn't agree with him more. Expense control was exactly the justification I had used in my memo requesting the ///. Mr. Biller continued "Unemployment is rampant in our state. Plants and businesses are closing all around us. Just a few moments ago I was told that a major advertiser is cutting back on expenses and will no longer advertise with us.

Do you know what loosing a major client means to our revenue projections?" He did not wait for an answer to his question. "Now, having learned this, I returned to my office to review my mail and find that you want us to buy you a computer. Do you think that this company is prepared to plunk down thousands of dollars for a computer?"

"But sir," I protested, "I could make excellent use of an Apple / //. It would make my work so much more productive. Besides, Gary and Rick in sales both have a /// plus. I'm only asking ..." He cut me off. "You want an Apple ///? Then do what Gary and Rick did - buy it with your own money! I don't want another memo from you requesting such expensive clap-trap!"

I was stunned. This couldn't be happening! Maybe I was the one who ate the bad lunch and all of this was just a bad dream. My legs were shaking, my breath was short. I made one more desperate attempt. "But, Mr. Biller, how can you be so short sighted? You have an Apple][e right next to you. I'm only asking for the same tools to do my job as you have to do yours." That may have been a mistake.

"For the last time", he slammed his fist on the desk, "no more computer talk!" His face was red. "We have no intention at this time, or any time, of buying you an Apple ///, or any other kind of computer! You're fired! Clean out your desk and get out!"

My world was collapsing around me. I walked out of Mr. Biller's office in shock and shame. I had been so close. So very close. For now, I would retreat. But, the war was not over. Just like the fairy tales of old, I would span any obstacle, run any course, fight any foe to achieve my goal. My love affair could survive even the toughest of obstacles. Someday, somehow, an Apple /// would be mine.

It occurred at the most unexpected of times and under the most unusual of circumstances. It was an ordinary day. A lazy Saturday afternoon. Outside, intermittent rain showers were falling. The weather was too wet to do anything but lounge around the house. In order to fight off impending boredom and the total destruction of our house by the kids, we decided to go for a ride. We had no objective to our travels, we could think of no particular place to go. We simply stuffed the kids in the car and drove off. Twenty minutes later we neared a shopping center. The kids had taken a break from fighting with each other long enough to notice a store with colorful balloons outside. There was a jolly clown out front serving hot dogs and Pepsi. The kids immediately clamored for us to stop, so we did.

As the kids were wolfing down every hot dog in sight, I glanced up at the storefront. A sign above the door read, "Computer Heaven". Next to the sign was the famous Apple insignia. On the door was a large sign:

**"ANNIVERSARY SALE.
BIG DISCOUNTS ON ALL APPLE COMPUTERS.
TODAY ONLY!"**

A voice went off in my head. "///, ///!" Its melodic strains drew me closer and closer. The front door opened. I was ushered into the store. Minutes later we were carefully loading a /// Plus with external disk drive and Imagewriter printer into the trunk of our car. History was being made. My moment had arrived. The /// and I were soon to be united!

The drive home was sheer agony. At every stop light, motorists would screech to a stop mere fractions of an inch from the precious cargo in my trunk. I had visions of Mr. Slob's beat up 1962 Buick plowing into the trunk of my car tearing my beloved Apple /// to shreds. Would we ever get home?

Finally, we pulled into our garage. Not waiting for my wife or kids to get out of the car, I opened the trunk lid, grabbed my precious and charged up the stairs. I tore open the boxes

quickly. The moment I had waited for all these long years was now just seconds away. I quickly connected the monitor, external disk drive and Imagewriter to the ///. I placed a disk marked "The Apple /// System Demonstration" into the internal drive. I reached behind the /// and switched it on. The world stood still as the /// came to life. The disk drive began to hum. She was home, she was on, she was mine!

The /// reined as the king of the hill. Nothing was as important. Not job, nor family nor even world affairs. Home projects were ignored. The paint began to blister and crack on the walls, our back yard became a jungle of high grass and our car wasn't running at all well. But as for me and my ///, all was harmony, peace and love. We were as one, my Apple /// and I, until one fateful day when a new arrival came to our house.

At Christmas time, a very large box appeared under the Christmas tree. Attached was a card that read, "For Daddy's Special Computer Christmas" I was completely taken by this mysterious package. What could possibly be in a box that size? Certainly not software. Maybe it was a hard disk for my ///. No, the box was too large for even such an important item as a hard disk. It seemed an eternity waiting for that Christmas morning to arrive.

Early Christmas morning I jumped out of bed, ran into the living room and proceeded to tear the wrapping paper from the mysterious box. It was a brand new Macintosh Plus! Here was a high tech love. My mind went wild. Not a moment could be wasted. I didn't wait for the others to open their Christmas presents, but raced immediately into the study, locking the door behind me. I could hear the pitiful cries of my three year old daughter from the other side of the door, "Daddy! Daddy! Open the door! I want to see Macky too!" I ignored my daughter's cries and my wife's threats and began to open the Macintosh Plus box. Carefully, lovingly, I examined each item that came out of the box. The keyboard, long and sleek with numeric keys built in. The silver colored power cord. The mouse, with its exotic, long tale. The manual, with its photograph of my newest love. I removed a cassette, and three disks marked "System Tools", "Guided Tour" and "Software Sampler". I savored each and every wonderful moment.

Then, the most important of all, the brand new Macintosh Plus was brought out of the box. I hastily moved the Apple /// off the computer desk. Outdated, old technology mule, I thought as I hastily placed the /// on the floor. Eventually, the /// would be relegated to an old mission desk in the basement that was used for storing unpaid bills. It would become a memento of times when mice terrified elephants and icons were only to be found in the deepest part of dark Africa. I felt a twinge of guilt, but this was no time for remorse. I quickly connected the keyboard,

external drive and mouse to the Mac. I reached behind the Mac and switched it on. The world stood still as the Mac chimed to life, then began to hum. Out came a yellow plastic disk of some sort. In went the "Guided Tour" diskette. For a fleeting moment, I thought I saw a smile come over her screen.

The Macintosh Plus, with its external drive, took large byte ... err, I mean bite, out of our Apple credit leaving nothing left to purchase any software. Since Apple no longer bundles MacWrite and MacPaint with the Mac, the only software I had was "Software Sampler". Demonstration software has its good points, but productivity is not one of them. It is intentionally designed not to save or print. With fear, I realized that I could neither print out my creations, or ever turn the Macintosh off. So, the Apple /// was pressed back into duty once again.

Once reconnected, the /// reacted to the arrival of its new sister. The first time I tried to use it, it went nuts. Random characters flashed all over the screen followed by large letters that read, "SYSTEM FAILURE \$06". Obviously, the /// was expressing its lack of joy over our newest arrival. No matter what I tried, the /// refused to boot. It had simply died in a rage of jealousy!

A moment of sheer terror ensued. Ignoring the Macintosh completely, I carried my lifeless /// downstairs to the work bench. I had read of problems like this, but I had never actually faced a fatal system error before. I carefully took the computer apart and gently pushed all the chips back in their sockets. Then I reassembled the ///. The tension was thick. Sweat was pouring down my brow. I held my breath and closed my eyes as I reached behind the /// and switched it on. The ///'s internal drive began to whirl. Slowly I opened my eyes, the computer was successfully booting. What a relief! The temper tantrum was over.

As soon as pay day rolled around, I rushed back to Computer Heaven to purchase some gifts to shower on my new love. I selected dust covers for the Mac, keyboard and external drive. I bought a package of diskettes along with MacPaint and MacWrite software. I also bought connectors to make up a printer cable. The dealer was kind enough to make a copy of the print cable connections for me. Why should I spend over \$30 for a cable when I could make my own for less than \$15?

What a disaster that turned out to be. Suffice it to say that unlike the ///, Apple fully intends for its customers not to make their own cables. Apple has gone to great lengths to design the Mac Plus' mini DIN-8 printer and modem connectors so that they are virtually impossible to work with. I spent hours trying to solder wires to the tiny pins inside the connector. With great persistence, the cable was completed and checked out. Now, the real fun would begin as I watched my Imagewriter print out all those

great MacPaint graphics.

The cable was connected between the Mac and Imagewriter I. I turned on the printer and booted up the Mac. I scrolled down the MacWrite File menu and selected print. What came out was the weirdest assortment of gibberish ever to issue from an Apple printer. Once in a great while, the Mac would really try. An occasional English word would creep in, but then then right back to the Twilight Zone. I was dismayed! Something wasn't right. I checked and double checked the Imagewriter's dip switches. They were correct. I took my ohmmeter and checked and rechecked the cable. No problem there, the cable was wired exactly according to the the dealer's information. I was at a complete loss.

I knew that Computer Heaven could cure my problem. They have access to every hint and kink that every came out of Cupertino. So off I went carrying the Mac Plus under one arm, the Imagewriter under the other, and my home brew cable between my teeth. Was that a snicker I heard as I passed by the Apple /// on my way out the door? No, it couldn't have been.

Storm clouds loomed overhead as I made the long trek towards Computer Heaven. Just as I parked the car, the heavens opened. A heavy downpour drenched me, the Imagewriter and my brand new Mac Plus. Somehow, this just wasn't my day.

The dealer's technician, Kent, placed my system on the workbench. As it did for me, the system simply refused to print. Kent proceeded to check my cable. "Its wired correctly" he announced. "Maybe our problem is a defective Mac Plus." I insisted. Kent reluctantly brought over another Mac Plus and connected it via my cable to the Imagewriter. Once again, pure garbage!

Kent looked at my Mac Plus, at the Imagewriter and then at me. "It's very obvious what the problem is. Your Imagewriter is defective." "Just a minute!" I protested. "There is nothing wrong the printer. I use it all the time with 'Draw On ///' and 'Three Easy Pieces' on my Apple ///." "On your Apple what!" Kent stared at me in astonishment. "On my Apple ///", I replied timidly. "What's an Apple ///?", Kent asked in disbelief.

I had encountered that kind of response before. Its hard to believe that in this age of computer literacy there are still those who do not know that Apple manufactured other computers between the Apple][and the Macintosh. I patiently explained that the Apple /// was designed for business use and was very sophisticated machine. Kent looked very confused. Not knowing what else to say, I stammered, "It's like a big Apple][".

Continued on page 18

Brightening Up Basic

by Thomas R. Johnson

Keeping It Colorful

How many BASIC programmers/users out there have a color monitor but are still operating in black and white? The following BASIC program will add color or shades of gray/green to your monitor and brighten up your BASIC programs. It runs in Graphics Mode 1 providing a 40 column, 24 line color screen.

On program start-up you will see your monitor filled with program lines 110 through 310. You have three options. Option 1 is "COLOR SCREEN SCROLL". If you refer to page 145 of the Apple /// "Standard Device Drivers Manual" you will see the Color Compatibility Table. This option will step you through the entire foreground/background color matrix in about 2 minutes. By changing program line 530 from 150 to 1 you can speed up this stepping process to 45 seconds.

On the screen you will see a series of 1 inch horizontal color bars with "Foreground Color = 0 through 15" and "Background Color = 0 through 15" superimposed on each color bar. This option allows you to determine which foreground/background color combination you want to use. By typing "Control 7" you can stop and restart this scrolling sequence and jot down the color combinations that you prefer. "Control C" stops the scrolling and returns to the main menu.

Option 2 is "COLOR SCREEN SELECTION". This option requests that you input the desired color numbers for foreground and background. Once the background color is entered the monitor screen will change to your selected colors.

Option 3 is "QUIT TO BLACK AND WHITE BASIC". This option returns you to the familiar BASIC black and white start-up screen. In addition, typing "RUN" and Return from Options 2 or 3 returns the program to the main menu.

I have installed this program under the Catalyst BASIC Start-up Menu and use it with a TAXAN RGB /// color monitor. The program runs under either Business BASIC versions 1.1 or 1.23Ax.

This is a good program to write and run BASIC programs with but you will have to experiment with them to see if you will get satisfactory results with existing programs, especially if they are written for 80 columns.

```
10 REM *****
11 REM *
12 REM *
13 REM * COLOR SCREEN SELECTIONS *
14 REM *
15 REM * BY TOM JOHNSON *
16 REM *
17 REM * OAK HARBOR, WASHINGTON *
18 REM *
19 REM *****
20 ON ERR GOTO 110
21 PRINT SPC(8) "COLOR SCREEN SELECTIONS"
22 PRINT SPC(8) "=====
23 PRINT SPC(8) "COLORS AVAILABLE - "
24 PRINT " "
25 PRINT SPC(5) "0 = BLACK"; SPC(10) "8 = BROWN"
26 PRINT SPC(5) "1 = RED"; SPC(12) "9 = ORANGE"
27 PRINT SPC(5) "2 = DK BLUE"; SPC(7) "10 = LT GRAY"
28 PRINT SPC(5) "3 = LAVENDER"; SPC(6) "11 = PINK"
29 PRINT SPC(5) "4 = DK GREEN"; SPC(6) "12 = GREEN"
30 PRINT SPC(5) "5 = GRAY"; SPC(10) "13 = YELLOW"
31 PRINT SPC(5) "6 = MED BLUE"; SPC(6) "14 = AQUA"
32 PRINT SPC(5) "7 = LT BLUE"; SPC(7) "15 = WHITE"
33 PRINT " "
34 PRINT SPC(5) "YOUR OPTIONS ARE:" : PRINT
35 PRINT SPC(5) "1 - COLOR SCREEN SCROLL"
36 PRINT SPC(5) "2 - COLOR SCREEN SELECTION"
37 PRINT SPC(5) "3 - QUIT TO BLACK & WHITE BASIC" : PRINT
38 PRINT SPC(3) "[7] - STOP/START SCROLL"
39 PRINT SPC(3) "[C] - STOP SCROLL & RTN TO MENU"
40 PRINT " "
41 PRINT SPC(9) : INPUT "WHICH OPTION ?"; A$: X=ASC(A$)-48
42 PRINT " "
43 ON X GOTO 430,360,340
44 TEXT:HOME:END
45 REM - COLOR SCREEN SELECTION
46 PRINT SPC(8) : INPUT "SELECT FOREGROUND COLOR - "; A
47 PRINT " "
48 PRINT SPC(8) : INPUT "SELECT BACKGROUND COLOR - "; B
49 PRINT CHR$(19); CHR$(A); CHR$(20); CHR$(B)
50 PRINT CHR$(16); CHR$(1); : HOME
51 END
52 REM - COLOR SCREEN SCROLL
53 TEXT:HOME
54 PRINT CHR$(16); CHR$(1)
55 FOR A=0 TO 16
56 FOR B=0 TO 15: IF A+B=>30 THEN 110: ELSE 490
57 NEXT B
58 NEXT A
59 PRINT CHR$(19)+CHR$(A); CHR$(20)+CHR$(B) : PRINT " "
60 PRINT SPC(10) "FOREGROUND COLOR = "A
61 PRINT SPC(10) "BACKGROUND COLOR = "B
62 REM TIME DELAY - 150 = 2 MINUTES / 1 = 45 SECONDS
63 FOR I=1 TO 150:NEXT I
64 GOTO 470
```


Continued from page 27

Please send me the TrackBall for use in Draw ON and The Graphics Manager. I hope I can get them up and running with the TrackBall without too much difficulty. You mention that there is a Graphics Tablet version of Draw ON ///. Where can I obtain a graphics tablet for my Apple ///?

Will the StemSpeller /// spelling checker work on a ///E-Z Pieces data base or only the word processing files?

Thanks,

Ron Corbett
Miami, Florida

Dear Mr. Corbett,

You shouldn't have any problems getting the TrackBall up and running with both Draw ON and The Graphics Manager. It's a very straight-forward operation.

We do have a version of the Draw ON /// program that works with the Apple II Graphics Table that was manufactured by Apple. The key word is 'was'! Apple ceased making the Apple II Graphics Tablet a number of years ago, shortly after the Apple /// was cancelled.

They originally sold for over \$600, now if you search around you can get them in the \$100-\$200 range. We don't sell them but you should be able to get one by checking your local papers or user group newsletters.

StemSpeller /// will spell check /// E-Z Pieces word processing files, regular ASCII and StemWriter files. Unfortunately it will not check /// E-Z Pieces data base files.

PFS: What?

Dear ON THREE,

I would like to run Apple //e & //c products on my Apple ///. Is there an emulation disk available? If not do you have a version of PFS: Write available for use on the Apple /// in native SOS mode?

Also, do you have a listing of all the public domain software available for the Apple ///? If not, where can I get one?

Sincerely,

Michael Starzak
East Providence, Rhode Island

Dear Mr Starzak,

There is a product called the Titan ///+//e that allows you to run Apple //e and //c programs on the Apple ///. By itself the Apple /// will only run Apple /// programs and programs written for a 48K Apple II machine.

The Titan boards are a set of two interface cards that plug into the Apple ///. They cost \$399 and allow you to run Apple //e programs in addition to running your Apple /// programs, so it doesn't change the way your native mode Apple /// programs operate. To run some of the Apple //e-//c programs you will need a 65C02 chip.

PFS never did a version of PFS: Write for the Apple ///, though there are a number of very good word processors available for the Apple ///.

For a listing of public domain software, please send your name/address and the request to:

TAU
1113 Wheaton Oaks Drive
Wheaton, IL 60187

If you have any other questions please feel free to ask.

Apple ///'s On The Air?

Dear ON THREE,

Do you carry a program so I can use my Apple /// with amateur radio equipment? I want to be able to send and receive morse code and RTTY off the air. I have the radio gear and Apple ///. I just want to use them together.

Sincerely,

Joe Hansen

Dear Mr. Hansen,

I'm sorry but I don't know of any programs for the Apple /// that can do what you want to do. It might be possible to send and receive morse code and RTTY with some other equipment that could be connected to and controlled by the RS-232 serial port on the back of your Apple ///.

This would require a controlling program written in the language of your choice, possibly Basic or Pascal. Either languages would allow you to read information from the RS-232 and send controlling information to the external device which in turn would send the appropriate signals.

I don't know if any such device is available but with your knowledge of the field you might be able to find what you're looking for. Good luck!

The Apple /// Goes To Church

by W. Henry Linton, Jr.

A Guide To Using The Apple ///

I am persuaded that the best use of an Apple /// is in using /// E-Z Pieces, the word processing/data base/spread-sheet masterpiece of software, also known as AppleWorks in the Apple // world.

In our 1700 member church we lucked onto this software almost accidentally four years ago, when trying to get started with "a computer". Sure, we were influenced by the bundling of a hard disk drive with the ///, but a particularly attractive feature in the selection was /// E-Z Pieces which was included.

The salesman swore that the pastor could compose his sermon with AppleWorks on the Apple //c we were also buying, in his office or at home, then give the file disk to his secretary for printing out on the daisywheel printer attached to her ///. And lo and behold, it worked! And no ASCII text file in between, either!

The pros may smile at such simple pleasures, but to beginners getting going, it is great to have such a direct connection. The screen displays are the same, the key presses are the same, the open apple key looks the same, and confidence-building begins.

It is a fascinating experience to help church volunteers get into word processing, cut-and-paste, margins setting, and printer hijinks. Another article at another time can track this progress, and answer questions such as "when do you get what you see on the screen and when do you not", and "why isn't my printer's name on the list of printers".

But for this piece, I want to take up the membership data base and recount several fun experiences and one problem we solved. After all, this was the first goal of the acquisition, and the first heavy-duty task we went after.

Setting Up A Data Base

Let's review getting started. After starting up /// E-Z Pieces and pressing the space bar or return when asked, we get to Main Menu. We want to "set up a new data

base", but the menu doesn't have that listed. Most of the people I've worked with have trouble with "Add a file to the desktop", but finally give in to this "lingo" and press return.

Likewise, it seems to be a personal trauma at first that one must scan the screen to see "Make a new file for the:" and then press 4 for the Data Base choice. The word "file" has to be translated to equal "what I need".

I don't want to make too much of it, but one of my continuing teaching jobs is to convince people that scanning the screen will give 85% of the answers to their questions.

As you /// E-Z Pieces and Apple Works fans know, when you choose 'make a new file', you get a request for a name for the file, then the screen to name 'Categories'. Again a lingo translation to 'fields' for pros, but the amateurs really don't know what they are at first. But they do get the idea that these are the names of the blank lines to be filled in with INFORMATION, like name, address, phone number, and so on.

Interesting Problems and One Group's Answers

How do you decide what field names to pick for a name list? It tends to be a time-dependent process. Fairly early you have LAST NAME a separate field from FIRST NAME. But not always. One person, proud of learning how to set up the data base, and encouraged to experiment, set up a one-field data base on new people ("NAME"), and entered a few as Mr. and Mrs. John Smith, Mrs. John Jones, etc. Then came the awful day of trying to alphabetize. Everything begins with "Mr" !

So you do learn to look ahead to what you will be doing with the data, but if it is the first time, how do you know? After trying and learning by mistakes, here's our list:

1. People often have a nickname you want to be aware of. If John Smith is called "Biff", you want to know that. You also want to know it is safe to call him that.

So we called one field 'Uname', for "usual name". (The short name takes less screen space) That way we can list it for the pastors or others wanting to talk to him, and we can also use that on printed lists or informal To/From notes.

2. What about adults named John Robinson Jr. or John Walker III? Sometimes in making printed lists you want informality, and sometimes a full flourish, so for flexibility we chose to make a separate field 'Jr. etc''. Again, we can treat people according to the situation, and it might show that we care about them.
3. How about front titles like Dr., Mr., Mrs., Hon.? In a similar vein we set 'Title' as a separate field. Again flexibility to be informal as desired.
4. What to do on mailings where only one per family is desired? We like having separate records for husband, wife, and each child above a certain age. Here we hit on the solution of having a 'Family Title' field. If the husband is the family head and there is a wife, the Family Title is "Mr. & Mrs." or "Dr. & Mrs." on husband's record, but is blank on wife's record. If family head is a widow, her field 'Family Title' says "Mrs."

Children's records do not have family title entries, nor do they have any 'title' entries until they are of a set age. So if you set the record selection rules to "Family Title is not blank", you get the family (household) mailing list.

Ironies of Life

Backups are important, we all agree, but we made a mistake in our early days. We were so eager to do right that in our zeal to make floppies of our precious membership information we forgot to tell the volunteer to 'Change the current disk drive' from 'Drive 1' back to the regular '/Profile' after saving the file to the floppy.

After saving to floppy one afternoon, twenty more people's vital church information was typed in, but in the C-S saving of the file, were saved to the floppy without the difference being noted.

The next morning when the Profile was "the drive", the twenty records were mysteriously missing! And not realizing they might be on the floppy, the puzzled volunteer retyped them and saved them to the Profile.

Final Thoughts

If you have an Apple /// and haven't used ///. E-Z Pieces, you are missing a treat. With us, the Apple /// has gone to church, and is serving multiple purposes. The consistency of the ///. E-Z Pieces and AppleWorks programs has helped us make the Apple /// world and Apple // world almost completely interchangeable.

Especially in an environment where volunteers and part-time workers want to make use of computers, this program comes through handsomely.

AUTHORS WANTED!

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

Just send your article or program on diskette to ON THREE. If it's chosen for publication we will check it for accuracy and even correct those silly spelling errors. Before you know it, you will become a rich (at least in spirit) and famous author. Your work will be read worldwide, by a captivated & spellbound audience.

For a copy of our author guidelines, please send a self-addressed, stamped envelope to **ON THREE Magazine, 8920 Yolanda Avenue, Northridge, CA 91324**, or give us a call at (818) 701-1355.

Letters To The Editor

by Bob Consorti

Questions And Answers From Your Apple /// Experts

ProFile Data Saver Wanted

Dear Bob,

Thank you very much for your help and cooperation in trying to solve my problems with the lost software program "ProFile Data Saver". Following is what I need:

"ProFile Data Saver" software for the Apple ///. As I mentioned, I inadvertently ruined the software when I backed up one of my ProFile files on the master disk. If you could ask your readers for help, I would be deeply appreciative. Please direct them to call me at (612) 645-3473 or Fax me at (612) 641-7298.

Thank you again for all your help!

Robert A Pankonin
Saint Paul, Minnesota

Dear Mr. Pankonin,

Here it is. I hope someone has a copy of the program they can send you. For a little background info., Software Publishing Corporation *doesn't* have a copy anymore, so if you have one please call Mr. Pankonin.

Printer/Printing Info.

Dear Bob,

- 1) Can I see specs. on the Seikosha Color printer? Can I get a wide carriage one? Does it come with tractor feed?
- 2) I'm holding my breath for GoBack. Please hurry up.
- 3) I look forward to desktop publishing with the Apple ///. I hope it is a long detailed article which also tells us about hooking up laser printers and how to get the correct printer drivers.
- 4) Will my 'old' Draw ON /// work with the Seikosha or must I make driver changes when I make printer changes?
- 5) How does one use the "Printer Set-Up" to set-up a custom printer (Apple LQP) using the codes? Can you give me the exact illustrations so I can not go wrong?
- 6) I purchased the Graphics Manager a number of months ago. Do I have the version that is color or B/W?

Please keep trying. A *bunch* of us are also hanging-in there.

Thanks,

Jim Reisinger
Skokie, Illinois

Dear Jim,

The Seikosha comes with a tractor feed, and it is only available in a regular sized carriage. In text mode it prints at 50 characters per second which is unacceptable for text but fine for color printing.

Hopefully we will have GO Back ready by the end of the year.

The article on desktop publishing is in this issue. The author isn't using a laser printer but we previously published an article on using a laser printer and the Apple /// for desktop publishing purposes. It contained information on hooking up the printer to the /// and the various driver and switch settings that were needed to make it all work. That was published in the October 1986 issue.

You may find it useful to combine the techniques used in that older article with the ones presented by Mr. Ash in the most recent article. Using a combination of methods should result in great looking printouts.

Draw ON /// will not be able to directly print to the Seikosha as this printer follows its own commands. With the Seikosha we include a special version of the Color Graphics Manager that does the printouts. To print an image from Draw ON /// you would simply save it to disk and then load up the Color Graphics Manager program and print it from there.

The version of TGM that you have is no doubt the black/white version. I do know and greatly appreciate the 'bunch' of you that are hanging in there. We'll continue to do our best to inspire your confidence and trust.

SS Doesn't Do DB

Dear Bob,

Continued on page 24

MOVING?

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

DeClassifieds

FOR SALE: Seven Apple ///'s, all with Monitor ///'s, 512K and 5 Meg. ProFiles. All offers considered. (612) 944-7700.

FOR SALE: Two Apple /// total systems, call (919) 752-3980.

FOR SALE: Apple ///+, 256K, monitor, external disk drive, 5 meg. hard disk & software. Also Apple ///, 256K, monitor, external drive, software. Make offer. Days (619) 340-4543. Evenings (619) 568-6520 - Larry.

FOR SALE: Low time ///+ computer with external disk drive and Apple ImageWrite printer. Excellent condition. \$700 or best offer. Scott Dineen (714) 499-4704.

FOR SALE: Apple /// 256K, monitor, 5 Meg. ProFile (set-up), GamerPort /// w/Joystick, clock, video interlace, Selector ///, TDM w/options, Pascal and Basic systems, /// EZ Pieces, Word Juggler w/Lexicheck and Terminus, StemSpeller ///, Visicalc, Backup ///, much more. Great system. \$900 takes all. (303) 633-2044, leave message.

WANTED: Used Apple /// hardware and accessories (no junk), and used software plus manuals, P.D.O.K. Please nothing illegal. Send list with your low price to: Mark Bannister, P.O. Box 263, Tucumcari, NM 88401.

FOR SALE: Apple /// XComp 16 megabyte hard disk, \$399. Like-new Corvus 20 megabyte hard disk \$599. Includes Selector pre-installed on both hard disks. Price includes shipping and handling. Call Bob for details at (818) 701-1355.

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How Would You Like A Fast, Reliable And Easy To Use Hard Disk Backup Program That Also Supports Tape?

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

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

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

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

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

If you want a reliable, very quick and inexpensive (around \$50) program for backing up your hard disk, drop us a note or give us a call at (818) 701-1355. Just leave your name and address so we can notify you if and when the project is finished.

Next Time In ON THREE:

Getting CPA Service From The ///

A Structured Approach To
Programming In Basic

SpreadSheet Hello

And our regular mix of letters and
other information to help you get the
most out of your Apple ///.

ON THREE News & Views

From The Desk of Bob Consorti

As another winter is upon us I look over the various software and hardware products that we have available for the Apple /// and wonder what else can we do? We have memory expansions, hard disks, floppy disks, word processing, spelling checkers, desk accessories & other utilities galore!

Well, the answer to what comes next is simple - more! In this flyer we're announcing one very big new product and an important trade-up program. The big new product is our Sider 40, a 40 megabyte hard disk drive for the Apple /// power user. This ultra-fast & reliable 40 megabyte hard disk drive is described on the back cover. Let me just say that after using a Sider 40, I won't go back to any other hard disk!

I think the biggest news in this flyer is the introduction of our ProFile trade-up program. If you purchase any Sider from ON THREE in the next 90 days we will give you a \$150 rebate when you return your old ProFile to us. If you have two ProFile's we will give you a \$300 rebate after purchase of a Sider and return of the ProFile's. Now you can get a Sider 20 for as little as \$599 or a Sider 40 for only \$899!

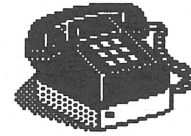
This is the most exciting program for the Apple /// in ages and I hope that we will soon see many Apple /// owners trade-up their ProFiles for the faster and much more powerful Sider 20 and 40 hard disk drives.

We are working on some very exciting items that we will announce in the next flyer. I'll give you a little teaser by saying that it has something to do with our hard disk backup program and a tape disk drive for backups! Until then I ask that you keep supporting our efforts by continuing to purchase the new (and old) products that we create for the grand old Apple ///.

Incredible Sale Prices!

<u>Product</u>	<u>Regularly</u>	<u>Sale Price</u>
Draw ON ///	\$179	\$99
*StemSpeller ///	\$69.95	\$49.95
StemWriter	\$99	\$79.95
Comm. Manager	\$49.95	\$39.95
Graphics Manager	\$39.95	\$29.95
Lazarus ///	\$49.95	\$39.95
Selector ///	\$99	\$69.95
The Desktop Mgr.	\$129	\$69
TDM + any 2 accs.	\$200+	\$99
*Disk Manager	\$44.95	\$24.95
*Macro Manager	\$44.95	\$24.95
Super Accs. #1	\$39.95	\$29.95
Super Accs. #2	\$24.95	\$19.95
Super Accs. #3	\$29.95	\$24.95
*Apple /// w 256K	\$599	\$399
*Apple /// w 512K	\$999	\$799
Sider 20 Hard Disk	\$949	\$899
Sider 40 Hard Disk	-----	\$1199
1200 Baud Modem (Includes Comm. Manager)		\$149.95
2400 Baud Modem (Includes Comm. Manager)		\$249.95
* New Ultra-Low Sale Price! New item prices are introductory sale prices and they may rise after this sale is over.		

Special Winter Madness Sale!



Phone in an
ORDER TODAY!

Orderline: (800) 443-8877

In Washington: (206) 823-0516

For Support/Questions: (818) 701-1355

Magazine Subscribers:

A number of people have asked why bother to subscribe to ON THREE Magazine when they can continue to get the ON THREE News & Views for free. Well, this small flyer is not ON THREE Magazine. ON THREE Magazine contains 32 pages of information in each issue devoted to the use of the Apple ///. From beginner to expert we have articles ranging from using the System Utilities program to advanced desktop publishing with the Apple ///.

We like to call ourselves the Apple /// Experts because we know virtually every problem and more importantly the solutions to your Apple ///'s everyday needs. If you have an Apple /// you're not really serious unless you have a subscription to ON THREE Magazine.

Please look at your address label. To the right of your name is the month and year your subscription expires or has expired. If your subscription has expired or is coming close to expiring, you won't be receiving any more magazines. A great number of people have not been renewing over the last year and we would like to offer those of you a special half price / half subscription offer.

For only \$20 you can get reacquainted with ON THREE via a six month subscription to ON THREE Magazine. Best of all, for the next 90 days you can get any or all back issues you may have missed for only \$3.00 each. Now you can get the info. Apple /// users value dearly, for a very low price.

We need your support to continue offering great new products like the Sider hard disks, Seikosha Color printers and the Side Print spreadsheet printing utility so please renew or restart your subscription today!

Please note that we may shortly stop mailing flyers to those of you who are not current subscribers, so if you want to continue receiving the latest information about using the Apple /// and new add-on software and hardware products that make your life easier, please subscribe today!

Winter '88-'89 Sale - Order Today!

Fantastic New Products For Your Apple ///

Seikosha Color Printer

A few years ago I spent over \$1500 on a color printer that I could hook up to my Apple /// and produce great looking color printouts of my Draw ON /// and other graphic images. It was really nice but it was *verrrry* expensive. Today a good color printer costs around \$600 but that's still very expensive for most people.

After much research we've found a color printer that works nicely on the Apple ///, produces great looking color printouts and doesn't cost an arm and a leg. The Seikosha color printer comes complete with printer, color ribbon, parallel interface card, driver and a special version of the Color Graphics Manager. This program lets you print your images to the Seikosha anywhere on the page, at any size and in a variety of rotations.

It's a perfect companion to Draw ON /// and the only way to get great looking yet low cost color printouts on the Apple ///. It's *only* \$259 + \$20 s/h.

Note that while the Seikosha is a parallel printer it must be connected to the supplied parallel interface card for it to work properly on the Apple ///. The parallel card included with the printer works with all other parallel printers in addition to the Seikosha. If you don't have a free slot inside your Apple /// you can take out your UPIC or other card and use the Seikosha one instead to drive both your existing & the Seikosha color printer.

Side Print ///™

For years people have been asking if there was a way to print very wide spreadsheets sideways on the Apple ///. Until now there wasn't. But with our new Side Print /// you can print your /// E-Z Pieces, VisiCalc and Advanced VisiCalc spreadsheets sideways on your Apple DMP, ImageWriter, Epson or OkiData printers.

Side Print /// is available today for only \$29.95 + \$3 s/h.

The ProFile Upgrade Program

How long have you had your 5 megabyte Apple ProFile hard disk? Two years, three, four? Have you ever wondered what it would be like to use the latest technology Sider hard disks and enjoy the much greater speed and reliability? Do you ever get worried about you old ProFile breaking down?

If you have any of these questions, we have the answer - **Upgrade Today!** Our new ProFile upgrade program is designed for every Apple /// user that has a ProFile hard disk. Simply order our Sider 20 or Sider 40 hard disk drives and we will give you a \$150 rebate on your old ProFile! If you have two ProFile's we'll give you up to \$300 off the price of a Sider. Now you can get the best hard disks for as little as \$599!

* After ordering a Sider, return your old ProFile with interface card, cabling and power cord within 60 days to obtain the \$150 rebate for each ProFile (limit 2 rebates per Sider order). Your ProFile must be in good working order as we will not offer a rebate on non or barely-working drives.

The Sider 40 Hard Disk

The latest in a line of inexpensive yet very fast hard disk drives for the ///, the Sider 40 offers a full 40 megabytes* of storage.

The Sider 40 is by far the fastest hard disk drive available for the Apple /// and is also the most reliable. With a mean time between failure of 30,000 hours the Sider 40 will run perfectly for years. And if you ever decide to use a different machine, your Sider 40 can follow as it works on the Apple II, IBM or Mac so your investment can be used today and tomorrow.

Attractively styled to fit next to your Apple ///, the Sider 40 costs only \$1199 + \$35 shipping and handling.

* Because the Apple /// can only handle disks of up to 16 megabytes in size, the Sider 40 is partitioned into 3 volumes. Two are 16 megabytes in size and the third holds the remaining 8 megabytes. The Sider 40 will not work in Titan///+//e emulation mode, you should use the Sider 20 for that.

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