

ON THREE[®]

Volume 5, No. 5

The Magazine For Apple III Owners and Users

May 1988



In This Issue:

The Beginning ///
(Communications Revisited)

TrackBall /// - The Sequel

Letters, Letters, Letters...

All NEW Format!

Special Advertising Supplement

Meet ON THREE's old and new
editor, Bob Consorti



SMART APPLE /// USERS



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Table of Contents

Volume 5, No. 5

May 1988

FEATURE ARTICLES

- The Beginning ///** 5
by Richard and Lavona Rann
The popular communications series ends. This month focuses on The Communications Manager & Access /// and getting to the files on CompuServe, ///'s Company and other communication services.
- TrackBall ///** - The Sequel 9
by Steve Brineaux
An updated look at an alternative to the standard mouse.

DEPARTMENTS

- | | |
|--|---|
| Call Three: Hotline 2 | /// Mistakes 10 |
| A little help from our friends | We fess up to ours! |
| Apple Sauce 3 | ON THREE News & Views 11 |
| New words from the old editor | A special advertising supplement that lists all of the great products you can get through ON THREE. |
| Apple /// User Groups 4 | Letters To The Editor 23 |
| In an easy to read format | Q & A from the Apple /// experts! |
| Apple /// Bulletin Boards 8 | DeClassifieds 28 |
| If you have a modem, this list will connect you with other Apple ///ers! | Buy or sell Apple /// stuff. |

ON THE COVER:

Coming out of the forest is our new Super Accessories Disk #3 for The Desktop Manager.

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 |
| Jeff Fritz | WV | (606) 353-9493 | 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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| J. Donald Glenn | NE | (402) 291-9177 | Su-Th | 7-10 PM | Central | GE |
| Scott Weddel | NE | (402) 572-7543 | Su-Sa | 4-10 PM | Central | GE,TC |
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| 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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| 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-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 |
| Robert C. Sudduth | Germany | (0531) 35851 | Su-Wed | 6-9 PM | Europe | AL,GE,PA,SO (German or Englis) |
| 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

Something Old, Something New

Welcome to a new edition of ON THREE Magazine. I'll be editing and putting together the magazine from now on. For those of you wondering why 'ol Bob is back as the editor, it's a simple matter of economics. We simply don't have enough subscribers to warrant a full-time position as an editor.

The editors job is actually quite simple. It's taken me about one week to produce the May issue, so rest assured that your subscription will continue in full force for as long as there are Apple ///'s being used in the world.

We're trying to push our subscription count up higher so if you know of anyone who has an Apple ///, please tell them about ON THREE and ON THREE Magazine. A simple call will put them on our mailing list, so please tell them today!

More Reading!

A number of our readers have requested that we cut back the number of our ads. I'll admit that it seems that more and more of the magazine is being devoted to advertisements. Since our subscriber count has been dropping for the last two to three years it's become less and less profitable to produce the only remaining Apple /// specific magazine.

In place of revenue from subscribers, we count on bringing in enough money each month to keep us in the black from software and hardware sales. The majority of those sales come directly from the ads in ON THREE Magazine. Since we can't afford to keep on producing the magazine without those sales we have quite a dilemma.

With this issue I hope that we've taken a step in the right direction. In the center pages of the magazine is a list of all the products which we sell. Elsewhere in the maga-

zine are a number of advertising specials. Going to this format has significantly cut down the ad to article ratio in the magazine. I hope everyone likes the new format. If you have any suggestions on possible improvements please drop me a note.

Specials!

If you look over our new **Summer Specials** advertising section in the center of the magazine you'll see that we're offering a 10% discount on most of our hardware products and a 25% discount on most of our software packages. Please look over that section and order that special item you've been waiting for, for 10-25% off!

In This Issue...

We've got some neat new articles for you this issue. Leading off is the conclusion of the Rann's series on communications. This time they discuss ON THREE's **Communications Manager** and other fine points of telecommunications with your trusty old Apple ///.

Steve Brineaux brings us up to date with some new information regarding the TrackBall ///. I'm sure you'll all enjoy this one. This months Ranntings touches on a subject dear to our hearts - software piracy. Please read this one over, it's very educational.

Also in this issue is a load of letters with common questions, and the uncommon answers.

Once again, sit back, read and enjoy the only publication for the venerable old Apple ///. Remember, we like to think of ourselves as the **Apple /// Experts**, so if you have a problem let us help you - our other readers might have the same problem - and want the same answer. ///

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

Apples British Columbia
Computer
Society (Apple /// SIG)
P.O. Box 80569
Burnaby, B.C.
Canada V5H 3X9
(416) 839-7779

The Astronic Club
1453 Highbush Trail
Pickering, Ontario
Canada L1V 1N6
(416) 839-7779

Colorado

Colorado Apple Three User
Group
P.O. Box 3155
Englewood, CO 80112

Connecticut

Apple /// Society of So
Connecticut
34 Burr School Road
Westport, CT 06880
(203) 226-4198

Florida

Sarasota Apple /// User Group
c/o Computer Center
909 S. Tamiami Trail
Nokomis, FL 33555
(813) 484-0421

Georgia

Atlanta Apple /// Society
385 Saddle Lake Drive
Roswell, GA 30076
(404) 992-3130

Illinois

TAU c/o Lavona Rann
1113 Wheaton Oaks Drive
Wheaton, IL 60187
(312) 665-6319

Kansas

Kansas City Apple /// Users
Group
5533 Granda
Roeland Park, KS 66205
(913) 262-3355

Maine

So. Maine Apple Users Group
Casco St.
Freeport, ME 04033
(207) 865-4761, ext. 2249

Maryland

Apple /// SIG Chairman
Washington Apple Pi
8227 Woodmont Ave. #201
Bethesda, MD 20814
(301) 654-8060

Minnesota

Minnesota Apple Corps User
Group
P.O. Box 796
Hopkins, MN 55343

New Jersey

New Jersey Apple /// Users
Group
c/o Roger T. Richardson
P.O. Box 251
Allamuchy, NJ 07820
(201) 852-7710

North Carolina

North Carolina Apple /// User
Group
2609 North Duke St. #103
Durham, NC 27704

Ohio

Cincinnati Apple /// User
Group
5242 Horizonvue Drive
Cincinnati, OH 45239
(513) 542-7146

Apple Dayton - Apple /// SIG
P.O. Box 1666
Fairborn, OH 45324-7666
(513) 879-5895

Oregon

Oregon Apple /// User Group
1001 S.W. 5th Ave. #2000
Portland, OR 97204
(503) 645-6789

Texas

Apple Corps of Dallas
Apple /// SIG
P.O. Box 5537
Richardson, TX 75080

River City Apple Corps
Apple /// SIG
Box 13349
Austin, TX 78711
(512) 454-9962

Houston Area Apple User
Group (H.A.U.G.)
Apple /// Division
P.O. Box 610150
Houston, TX 77063
(713) 480-5690 or
(713) 974-5153

Virginia

Charlottesville Apple ///
User Group
216 Turkey Ridge Road
Charlottesville, VA 22901
(804) 642-5655

Virginia (Continued)

Greater Tidewater
Apple /// User Group
Route 2, Box 216
Hayes, VA 23072
(804) 642-5655 or
(804) 898-3500, ext. 2671

Apple THREE Group Intrnl
c/o H. Joseph Dobrowski
P.O. Box 913
Langley AFB, VA 23665
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Apple /// User Group
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British Apple Systems User
Group (BASUG) Apple /// SIG
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Watford Herts, England
WD2 6NF
0727 73390/72728

Le Club Apple
43 Avenue de la Grande-Armee
75116 Paris, France

Apple /// User Group
c/o Canberra Acct Services
P.O. Box 42
Duffy A.C.T. 2611
Australia

The Beginning ///

by Richard and Lavona Rann

Wrapping Up Communications

We hope that those of you with Access /// have now been in touch with us and other ///'rs on CompuServe. This month, we will conclude this communications mini-series and in so doing, tell you about The Communications Manager (TCM), the ///'s Company BBS, GENie, and how to download files from the CompuServe (CIS) data libraries using TCM or Access ///.

THE COMMUNICATIONS MANAGER

Using The Communications Manager does have a lot in common with Access /// because there are many parts of the computer-to-computer communication process that are similar without regard for the software you use. The Communications Manager is user friendly instead of being obtuse (like Access ///) and if it had been on the market earlier, we would expect that very few people would have bought the earlier program.

TCM's first advantage over the older program is that it is usable without making a special disk. The Communications Manager has two versions (you get them both when you buy it), and they give you some interesting options. The option most like traditional programs is like most other programs in that you can boot it and run (assuming you have made any required changes to the SOS.DRIVER file). The second version is the Communications Manager file as a The DeskTop Manager module which can be run as a desk accessory. This allows you to run it while running almost any other program, **including** Access ///. Stay tuned and we will tell you why that is important to some of us.

For new users, the most important difference between Access /// and TCM is the manual. As we mentioned last month, the Access /// manual is far from user friendly. It can, and has, confused people that had lots of experience with computer-to-computer communications. There are several errors in the Access /// manual and there is no

official support for the product. On the other hand, The Communications Manager has a very friendly manual that does not assume that the reader already knows anything about the process and makes it simple for a new user to get up and running quickly.

When The Communications Manager is started, you first see a "Hello" screen. If you then press the "Return" key, the program will go into terminal mode. Extensive on-line help can be obtained by the Open-Apple - ? key combination. Select the item for which you need help by highlighting an area using the up and down arrow key to move the highlight box and "Return" to select.

In TCM, the terminal mode has a status line that is displayed at the top of the screen. This line shows if a recording file is on or off, and whether the Filter is on or off. In addition, several of the most used features are listed with their key combinations commands.

SETTING UP TCM

TCM requires the same group of items to be setup as Access ///, and the process is similar. Use the Open-Apple -S key combination to move from terminal mode to Set Up Mode. Here settings are selected by moving the inverse highlight box between items listed in the menu. The highlight box is moved by the left and right arrow keys. The up and down arrow keys select the feature to be changed and the left and right keys are used to select values. Take a few minutes to set up your TCM to the CompuServe settings we gave you last month. Save your settings so that they will be there the next time you use the program by moving the highlight down to "Save Current Settings" and hitting the "Return" key. Then return to Terminal Mode by highlighting "Resume Terminal Operations" and hitting the "Return" key.

You can then use the exact same process as mentioned last month under Getting On-Line to call up CompuServe, leave a message, and see what messages are there. Try it before reading on.

GETTING FILES FROM COMPUSERVE

One of the real benefits of getting on-line is the ability of getting programs and files from those services. On CompuServe, the data files are in what are called the "DL's" (Data Libraries).

Let's see what is in the Apple /// data libraries. We are assuming that you are already on-line and have gone to the Apple /// section ("go apple3"). If you don't remember how to do this, look back at last month's column.

At the function prompt, enter the two letters "DL" followed by a return. You will get a menu of the data libraries that are available for Apple II and /// folks. Select the one of most interest to you by selecting the appropriate number. DL 8 has interesting /// information and DL 7 has lots of programs and their documentation. There are several ways to see what is in the DL, but our favorite is to turn on a recording file and to do a scan so that we can read it later and have it available for reference. Here is how you do a scan.

Enter: "SCAN /DES"

This will cause a listing of each item in the DL to be shown on your screen (and if you have a recording file on, will be saved to that file). If you don't want to look at the entire library, there are options for limiting the scan. To see the options and/or get other help concerning the DL's, just enter "HELP" while you are in the DL area and you can get on-line information.

When you have found something that you would like to keep or at least look at, you have to look carefully to see what type of file it is.

Exhibit number 1 is a copy of an entry in the format that you will get on your screen when you do a scan with description (SCAN /DES).

The very first line has the address of the uploader (person that provided the file). In this case, the address for the

Ranns. Feel free to use the address to send us messages or on-line mail. We enjoy hearing from our readers.

The second line starts with SWANHL.TXT. I know, it sounds like something from MS DOS. Actually, the first 6 characters are an attempt to give the file a unique name while being limited to 6 characters. (That is a limit on the mainframes being used by CIS). The "TXT" indicates that the file is a text (ASCII) file that you can read/record on-line.

The first date is the date the file was added to the library, the next numbers "4010" are a vague indication of file size, the number of "Accesses" tells you how many people have read the file, and the last date tells you the last time someone read it.

The "Keywords" are words that the provider thought might be useful if you were doing a scan for a special topic, and the description is provided by the initial uploader.

If you find a file with "TXT" at the end of the name field, you can read it (with or without your recording file on), by entering Read followed by the filename. In this case, it would be "Read swanhl.txt".

There are other file types that are not quite as simple. If a file name ends in "BIN" or has a "/binary" after it, the file has been uploaded in binary and won't be readable on-line. This is the way that programs, databases and other non-text files can be sent and received. Access /// cannot effectively handle anything but text files. There may be some screams about that comment, but remember we said effectively.

When processing a complex file, it is preferable to have a good "error-checking" protocol to ensure that everything gets transmitted correctly. The primary protocols are XMODEM and the associated BINARY II standard that is followed in the Apple /// DL's.

We don't have the space here to cover those in detail, but they are covered in the TCM manual and well supported! TCM is the only APPLE /// program that we have seen that fully supports these protocols.

Remember we mentioned a reason that you might want to run TCM as a DeskTop Module from Access ///? If for some reason you need Access /// (the only reason we've seen is a need to use VT100 terminal emulation for a fussy mainframe), you can continue to use it except when you need to upload or download files using XMODEM and/or BINARY II. We know several people that do this regularly. If you don't need VT100, don't even bother with Access ///. It costs more (even now!) and is unsupported.

The command to CIS to bring up the specialized download menu is DOWN followed by the filename. The rest of the information you will need to download can be found in the TCM manual. If you would like further assistance, once you are on-line on CompuServe, just ask on the /// section. You will have lots of new friends that will be glad to help!

THREE'S COMPANY

One very nice thing for Apple /// users is Ed Gooding's bulletin board system. It will cost most of you a long-distance call to Virginia, but even from the West coast, it is well worth it. You can call it using the same settings you have made for CompuServe and it is quite self-explanatory.

You can leave messages to lots of people (you can only see messages in mail boxes if it is your own mail box), and browse freely among lots of files with information about the Apple ///. We suggest you visit via phone and see for yourself. Leave a note for Ed Gooding while you are there. He supports this no-charge bulletin board as a public service to the Apple /// community. The number for ///'s company is:(804) 747-8752

GENIE

We left GENie for last because it really does not have much specifically for Apple /// people. Since its prices are quite reasonable compared to other services, and it does have lots of other useful information (non-///), we felt we should include a little basic information.

Most of the settings are, in truth, the same. The GENie setup has two settings that are different from the CompuServe setup we gave you last month. To use GENie

you must change "7 bit per character" to "8 bit per character," and "Full Duplex" to "Half Duplex."

With these changes, a password, id number, and telephone number we are ready to logon to GENie. Follow the same dialing procedure as we explained for CIS, and when the GENie computer answers the phone it will send the message "CONNECT." Type "HHH" then "RETURN" in response, and the GENie computer will reply with the prompt, "U#=". This is asking for the user id number and password. On GENie they must be typed in this manner, "xyz12345,password". The id number is given first followed by a comma and the password. followed by "RETURN." GENie, like CompuServe will open with a log on screen then switch to the Main, or TOP menu.

GETTING THE MOST FOR YOUR MONEY

No place on Earth is it more true that "time is money" than on-line. While this is a rule, it should keep you from experimenting. Getting on CompuServe and GENie will seem awkward at first. Many of the commands will seem awkward and not convenient. Most of this is because the services run of large mainframe computers which were never designed for friendly user interfaces. Don't worry about that; the instructions will get familiar and easy to use and maybe even begin to make sense with use.

Explore, look at the various offerings. It is virtually impossible to damage the host system, and if you get lost, you can always just get off line. There is no disgrace in getting off and trying again. You do want to watch the time so that you don't run up a huge bill the first couple times you are on-line and hate yourself when the bill comes in. We suggest setting an alarm or having a spouse remind you when a pre-selected amount of time has passed.

We have mentioned before that it is best to start at the slowest and thus cheapest speed. On most systems, this is 300 baud. Most people can't read as fast as 1200 baud will bring things to your screen and as a new user, you will have to stop and read many things.

After you have more familiarity and comfort with the system, move up to a faster baud rate and work at doing

as much "off-line" (when you are not on the phone line) as you can. You can write messages for later uploading and read things from recording files off-line. This can save lots of money over doing it all on-line.

If you are in the Apple 3 section on CIS often, you will be able to use the RN (or read new) command to just "read" the messages that are new since the last time you looked. Many of you will probably want to switch from menus to commands in the Apple 3 section too, but it's not for everybody. It requires you to remember codes like the RN instead of giving you a menu where you can select Read and then another for what type of read etc. It is faster, but takes a while to get used to.

Actively look for, and ask for shortcuts. Reading the manual can usually help a lot. Remember that being on line is like the old adage, "A minute saved is a penny earned."

At times on line networks have conferences where people like John Sculley or Steve Wozniak will respond to messages live on-line. If you attend one of these it is important to remember that the conference will progress

only as fast as the slowest typist. Since everything will be done on-line, there is no advantage in spending extra to use the faster 2400 baud speed. At conferences the general rule is to use the cheapest connect charge which is normally 300 baud.

THAT'S IT

While the field of communication is complex; the basics can be mastered in just a few hours. What is most important, many of the procedures learned for one service will hold true for others. With minor variations an Apple /// can be a gateway to a whole different world filled with adventure, information, and new friends.

If you have more questions, the best place to ask is on the Apple /// section of CompuServe (CIS). We normally check the messages there daily, and there are many others there that have all been through the stage of having to learn how to use all the techniques available. You can "meet" some very nice people there, including Bob Consorti and many of the people that have written articles for On Three. We'll be watching for you. ///

[70356,200]

SWANHL.TXT

08-Dec-86 4010

Accesses: 12 20-Dec-87

Exhibit # 1

Keywords: PASCAL SWAN DATABASE

This includes a couple hints on how to use the Apple][Swan Pascal Programs for Data Base Management systems on the ///. Experienced Pascal users will probably not need this unless they have not used Include statements or worked with special libraries.

Apple /// Bulletin Board Systems

The following bulletin board systems contain a variety of Apple /// related items. Use your Apple ///, communications package and modem to access them. These bulletin boards are run by volunteers so please note the times they are available. If you know of any others, let us know and we will include them here.

Three's Company
(804) 747-8752
Access Time: 24 Hours
Protocols: 7 Bits, Full Duplex, Odd Parity
Speeds: 300-1200 BAUD

Doug Thom's BBS
(408) 253-1309
Access Time: Call
Protocols: 7 Bits, Full Duplex, No Parity
Speeds: 300-1200 BAUD

Washington Apple Pi
(301) 986-8085
Access Time: After 6 PM EST
Protocols: 7 or 8 Bits, Full Duplex, Odd or Even Parity
Speeds: 300 BAUD

Infonet of Hayward
(415) 887-2158
Access Time: 24 Hours
Protocols: 7 or 8 Bits, Full Duplex, No Parity
Speed: 300-1200 BAUD

TrackBall /// - The Sequel

by Steve Brineaux

An updated look at an alternative to the mouse

A couple of months ago I reviewed a new Apple /// peripheral, TrackBall ///. This is an update on recent developments with TrackBall ///.

When last we left TrackBall ///, it was distributed and supported solely by the developer, Sykora Software. TrackBall /// is now sold and supported by ON THREE, Inc.

At the time of the previous review, TrackBall ///'s performance was rated as excellent, with the caveat that software support was limited. Since that time, a new set of TrackBall /// device drivers has been released which addresses all reservations expressed in the review.

To begin with, the AppleMouse™ compatibility problems have been fixed. The newest release of .MOUSE allows TrackBall /// to emulate the mouse properly with all mouse-compatible native SOS applications. Specifically, .MOUSE now works correctly with Graphics Manager ///, Desktop Manager /// (still with a few documented quirks), Mr. Sandman, even the new public domain drawing program, Sketchpad ///. In addition, Sykora Software has written two special device drivers which combine .CONSOLE and .MOUSE into a single module, permitting trackball movements and button-presses to act as keyboard keypresses!

The stand-alone driver, .MOUSE, can be used to control the trackball in both trackball mode and in mouse emulation mode (the separate device driver, .TRACK, is no longer distributed). Mouse emulation is the default operating mode. In mouse emulation mode, ball rotation is interpreted as mouse movement in the specified direction; the larger of the two pushbuttons is treated as the mouse button; the smaller pushbutton controls sensitivity: by clicking the small pushbutton you can cycle the trackball through halved, doubled, or normalized directional movement.

Application programs can reprogram the sensitivity and the meaning of the small pushbutton through the use of SOS device control calls; mouse emulation can also be disabled via SOS device control calls from an application. And why, you ask, would an application wish to use the trackball as a trackball instead of as a mouse? Because (as is generally true of native-mode operation versus an emulation), the native trackball operating mode provides greater functionality and responsiveness - so pay attention all you software developers!

The two driver modules (both called .CONSOLE and referred to generically as "TrackConsole") allow trackball activity to be treated as trackball input, mouse input, or as keyboard input; one of the modules is general-use replacement for the standard Apple .CONSOLE driver, the other is a specially-tailored replacement for the Quark Catalyst .CONSOLE driver; use whichever is applicable for your system. Neither driver module will work as a replacement for other specially-modified versions of .CONSOLE, such as might be found, for example, on systems using DA DataSystems' PowerKeys. A note in the documentation does indicate that a PowerKeys-compatible .CONSOLE module may be produced should sufficient interest be expressed, so all is not lost for those users.

Once installed, the combined .MOUSE-.CONSOLE driver performs mouse and trackball tasks identically to the stand-alone .MOUSE driver discussed above, and, of course, .CONSOLE functions as expected. The real excitement is that TrackConsole permits the large pushbutton to act as the RETURN key, ball rotation is treated as pressing one of the four keyboard arrow keys, both pushbuttons used together act as the ESCAPE key, and ball movement with either button depressed is treated as OPEN-APPLE arrow key input. In addition, the small

Continued On Page 21

/// Mistakes

by Bob Consorti

An honest look at some silly mistakes

Every once in a while we goof up. We make mistakes in composing and laying out the magazine. We try to catch all of them before the magazine goes out the door but sometimes we don't. This column will right the wrongs and correct any errors we've made in previous magazines.

Hopefully this will be a very *rare* column, but if you spot something in the magazine that just doesn't make sense, drop us a note. If it's something that needs correcting, we'll correct it in this space.

We feel compelled to apologize to John Lomartire for the way we mangled his article in the February issue. It was

supposed to show how to produce multi-column output from old faithful AppleWriter with the addition of his small Business Basic program. In between editors (Paula and Olaf), we somehow managed to make the two column text look pretty silly.

Below are the correct figures 3 and 4 which show how the multi-column output really looks. This time the second columns left edge is displayed justified correctly.

The new found ability to produce multi-column copy from older word processors that don't have that capability is wonderful. We all owe a debt of thanks to John for his efforts. ///

Apple Business BASIC allows external subroutines (assembly-language) procedures or functions that are not part of BASIC) to be loaded and executed from BASIC programs. You can use both external subroutines that you write, and those included with your Apple. For example, there is a library of special purpose

subroutines for displaying graphics supplied with Apple Business BASIC, described in the appendix on the invocable Graphics Module, that can be used by your programs.

If you catalog your Business BASIC master diskette, you will see some files with the extension ".INV". These are external routines.

Figure 3

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

If you run a program with the .DOC

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

Figure 4

ON THREE News & Views

From The Desk of Bob Consorti

From one die-hard Apple /// owner to another, I welcome you to the Spring/Summer '88 edition of the ON THREE product catalog. For many of you this will be your first bit of information you've received on the many products that are available for the Apple ///. I encourage you to look over this guide. If you're a new or an old hand with the Apple ///, there's something in here for you.

Over the last six years we've dedicated ourselves to producing the best software and hardware for the Apple ///. This catalog shows the fruits of those labors, dozens of Apple /// specific products. From memory and disk expansion to productivity tools and games, ON THREE has led the way in the powerful products that you want.

In that spirit we're introducing a few new products in this catalog. For you Desktop Manager users there is Super Accessories Disk #3! Another one is the long awaited spelling checker for /// E-Z Pieces. If you have this wonderful integrated program you're probably painfully aware of the lack of a suitable spelling checker.

With our new StemSpeller /// your worries are over. Now you can quickly and easily check your /// E-Z Pieces word processing files for spelling mistakes. A great enhancement for those who want to, or currently do use /// E-Z Pieces for their word processing needs.

We're selling StemSpeller today because a year ago over one thousand people requested a /// E-Z Pieces spelling checker. As long as you continue purchasing what you've asked for, we will continue to create new products for the Apple ///.

Other products that we're working on include a high-speed replacement for Backup /// and an easier way to configure and optimize your drivers. Both of these items have been requested repeatedly from you, our valued Apple /// customers.

For new Apple /// owners, let me suggest our new /// **Beginner Pack**. Explained in detail on page 3, it has everything to get a new ///'r up and running. For everyone, please sit back and read through the next few pages. There's something for everyone.

To all of the people who've supported us with their continued purchases over the years, a whole-hearted thanks! We look forward to continue fulfilling all of your Apple /// needs.

Bob Consorti - President, ON THREE

12 Monthly Issues of ON THREE Magazine for As Low As \$20!

If you're one of the many that have let your subscription lapse this past month (or a year ago), have we got some deals for you! Resubscribe today at the low rate of **only \$40** for a 12 issue subscription. That's our standard subscription price. Or if you like, order any product in this flyer and you can resubscribe for **only \$20**. That's 50% off the regular \$40 price.

But why should you resubscribe? Well, do you still have an Apple ///? If so you *need* ON THREE Magazine. It's the **ONLY** magazine that exists for the Apple ///. Please don't confuse us with other magazines that have abandoned the Apple ///. We're the last Apple /// magazine left and we listen to your needs.

From series for the beginner to articles for the most advanced Apple /// user, ON THREE Magazine helps you get the most out of your Apple ///. Resubscribe today and learn how to connect laser printers, hard disks, micro-floppies and more to your old Apple ///. Learn how to use ramdisks, spreadsheets, data bases, and word processing programs to their fullest. Timely reviews on Apple /// products (new and old) make ON THREE Magazine the only publication that can fill all of your Apple /// needs. With our Apple Slices column you can be kept abreast of all that's current in the Apple computer world. Whatever the reason, please be sure to subscribe (or resubscribe) today!

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Quantities of certain items may be limited.**



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(800) 331-1418 in CA.**

Product Support/Questions: (805) 644-3514

Apple ///-IIGS Users:

Many Apple /// owners have changed to the new Apple IIGS over the last year. If you have a GS, give us a call. ON THREE now has a variety of software and hardware products available for the Apple IIGS. Included are The Desktop Manager and the ON-BOARD, a GS 4 MegaByte memory expansion card. We'll be glad to send you our free Apple IIGS product catalog.

Apple ///'s, Memory Expansion & Disk Drives

NOTICE: The price of the micro chips with which we build our memory boards has skyrocketed! Prices are increasing daily with no end in sight. The prices listed below for Apple ///'s and Apple /// memory cards are valid as of the date of this printing. Please call for current prices. If you have been considering getting a spare Apple /// or upgrading your Apple /// to 256K or 512K, our advice to you is, "do it now, before prices climb even higher".

*Apple /// with Monitor ///

Powerful reconditioned Apple /// computers. Limited 90 day warranty. Save hundreds of dollars on one of the worlds finest microcomputers. Please add \$35 for shipping, handling and insurance.

256K Apple /// with monitor only \$599
512K Apple /// with monitor only \$999

512K Memory Upgrade

Expand your spreadsheets and data bases, use larger word processing documents and the new desk accessories! Enjoy a full 414K desktop in /// E-Z Pieces, 442K in Advanced VisiCalc and 456K in Business Basic! Had problems running large programs such as BPI, Selector ///, Catalyst or others? With a 512K your /// will have more than enough memory! Easy to install. No slot required! Kit includes: fully populated 512K memory board, installation guide, System Utilities 1.2 which permits larger driver files, 512K Memory Confidence Program that tests all memory and ensures the 512K is working properly, ultra fast RAMDISK driver with demonstration programs and 512K utility that updates your programs. 90 day warranty \$399+\$10

256K Memory Board Rebates

After purchasing and installing your 512K memory board, return your old 256K memory board to ON THREE within 14 days from date you receive your 512K upgrade and we'll pay you a \$35 cash rebate, or you can deduct \$45 off any piece of ON THREE software that you purchase at the time you return your board!

256K Memory Upgrade

If you need more memory but don't want to upgrade your Apple /// all the way to 512K, the 256K upgrade kit is for you. With 256K installed you'll be able to use programs like Selector, Draw ON, Desktop Manager and more! Includes installation instructions, 256K users guide, Apple /// Confidence Program, chip extractor, 256K confidence disk that tests memory and ensures that your 256K Apple /// is working properly, free technical support, 90 day warranty and a fully populated 256K memory board. All this for only \$169+\$10.

Memory Boards 128K

If you have ever worried about what you would do if your Apple /// memory went bad, here is an inexpensive way to get insurance. Have a spare 128K memory standing by and if trouble comes all you have to do is pop in your spare and go right on working. \$25+\$10

Memory Board Installation

All Thumbs? ON THREE will install your 256K or 512K memory board in your Apple /// for the new low price of just \$25 plus shipping charges. Please call (805) 644-3514 to schedule an appointment.

Memory Board Insurance

Covers immediate replacement of your 512K memory board in case of failure. Cost per year when issued within 90 days of purchase: \$50 per year for the first board and \$40 per board for two or more boards: Any original purchaser of an ON THREE 512K memory board can also purchase memory board insurance for \$75 for a full years coverage.

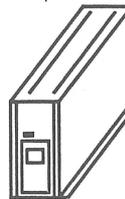
Apple /// Disk Drives

*UniDisk ///.5 800K Drive

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

We also offer just the Apple /// driver and documentation for those who want to get the UniDisk elsewhere. \$50+\$3

*The All NEW Sider 20 Hard Disk Drive



One of the advantages of a hard disk is that you can store virtually all of your programs and data files on it, greatly reducing the time it takes to do things - improving your productivity. Loading and saving files can be 10-20 times faster with the Sider hard disk. All in all it's a low cost, great hard disk and one of the fastest on the market.

All New Sider 20 Continued...

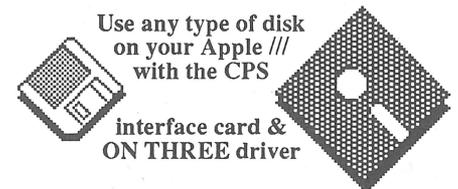
If you have a Titan ///+IIE board your choices have been very limited if you want a hard disk that worked in ///+IIE emulation mode. The Sider 20 expands your options by now working in the native Apple /// mode & the regular Apple II and the ///+IIE emulation modes.

You can store your files on the hard disk in the regular Apple /// mode, then switch to the emulation mode and access those same files with all of your Apple II programs.

The NEW Sider 20 is complete with interface card, Apple /// driver disk, documentation and cabling. The NEW Sider 20 even supports Apple II DOS, Pascal and Apple II CP/M partitions through it's powerful installation utility. Our new Apple /// Sider 20 drivers automatically recognizes these partitions and allows you full access to the two SOS partitions in native Apple /// mode. The NEW Sider 20 is a truly great hard disk. \$949+\$35

Current Sider 10, 20 and 30 owners can upgrade to the new version for only \$99+\$5. Call for complete details.

*CPS 800-400-140K Disk Drives



Use any type of disk on your Apple /// with the CPS interface card & ON THREE driver

While many of you select the UniDisk for your expanded storage needs, many /// owners have told us they wanted a low cost alternative to the the 800K Apple UniDisk 3.5 drive, for main storage or for backups.

With our new Universal CPS Driver, you've got it! The CPS interface card allows you to attach an Apple 3.5 drive and a UniDisk, or a UniDisk and a CPS 800K drive, or a CPS 800K drive and a Mac 400K drive or any Apple II 5 1/4 inch drive.

Any combination will automatically be recognized by our new Universal CPS Driver. No need to re-configure your driver files, it's all automatic! Includes the driver disk and instructions for installing the CPS interface card and all disk drives. We even carry the CPS interface card, 800K, 400K and 140K floppy disk drives with some of the lowest prices around!

Universal CPS Driver: \$50+\$3
Universal CPS Driver & Universal CPS Interface Card: \$149+\$5

CPS 800K Drive: \$249
CPS 400K Drive: \$145
CPS 5 1/4 inch 140K Drive: \$139
 Add \$6 s/h per drive ordered

Training Guides, Manuals, Games & More

*New To The Apple ///?

If you've acquired an Apple /// computer recently, you're probably distressed over the seeming lack of information available to help the new user get started. There is plenty of help available. **ON THREE** has a beginner pack that contains everything you need to gain the basic skills necessary to operate the Apple /// and learn which programs will benefit you the most.

The /// **Beginner Pack** has guides and programs that will teach, amuse and entertain you as you learn how to use the Apple ///. Please read the full product descriptions of these products elsewhere in this catalog. If you purchased them separately they would cost \$216.60. We're offering the /// **Beginner Pack** for *only* \$99+\$7 for s/h. Save over \$100! Contains:

- 1) McGraw Hill Guide to the Apple ///
- 2) Lazarus file restoration utility
- 3) ThreeWorks
- 4) System Utilities Product Training
- 5) Will Someone Please Tell Me What An Apple /// Can Do?
- 6) Crossword Scrambler
- 7) Mr. Sandman
- 8) Apple /// Card Machine
- 9) Apple /// Fruit Machine

McGraw Hill Guide to the Apple ///

Informative 276 page book explains the Apple /// in detail, everything from getting started with the System Utilities to programming. Complete instructions for the operation and care of your /// make this book a valuable aid for all ///'rs and a necessity for every new Apple /// owner. The Guide is only \$29.95+\$3.

ON THREE Magazine

The worlds only monthly magazine that's devoted solely to the Apple /// computer. ON THREE contains articles of lasting interest, answers to your technical questions, new programs, in depth product reviews, user groups and hot liner listings, editorials and up to the minute news of what's happening in the Apple /// world. You'll get substantial product discounts (available only to subscribers) that will more than pay the cost of your subscription!. If you have an Apple /// you need the ON THREE Magazine. USA 12 issues \$40: For First Class Mail add \$12: APO, FPO, Canada and Mexico \$60: Europe, South America, Asia, Pacific Islands and Australia \$84.

ON THREE Back Issues

Available from Vol. 1 #1, January 1983. Some are copies. Mailed first class within U.S. Air mail postage extra. **Only \$5 each**

*System Utilities Product Training Pak, An Introduction. Save \$20

Instructions on using the System Utilities program to format, copy, rename disks, list, copy, rename, delete files and make subdirectories. A section on the System Configuration Program helps you to configure your Apple /// and application software programs to communicate with other peripherals such as disk ///'s, the ProFile hard disk and printers. Gives an overview of the features of the System Utilities program and enough knowledge of the tasks involved to use your Apple /// with applications programs, data files and peripherals. Contains Sample Files disk and exercise booklet. \$14.95+\$3

ThreeWorks. New! New! New!

Bibliography of everything written or created for the Apple /// computer with listings of all published magazine and newspaper articles, a glossary of /// related terms, listings of the Apple /// bulletin boards, books, clubs, user groups, publications, vendors software and drivers with current version numbers, error codes, public domain software, Apple /// tips and more! Requires ///E-Z Pieces. A must have for all new Apple /// owners. \$39.95+\$3

Will Someone Please Tell Me What An Apple /// Can Do?

Original 95 page guide to Apple /// software from Apple Computer, Inc. Please be aware that some of the companies listed in this guide may no longer be in business. **Only \$3+\$2.**

Service Reference Manual and Complete Schematics for the Apple ///. 459 pages. Save \$20

The only authorized edition, complete and unabridged. Contains all of the schematics ever released. Contains trouble-shooting guides for repair of the main logic board, memory card and disk drive. All the inside information you ever wanted about the Apple ///. Comes in a sturdy three ring binder. Originally \$99, now only \$79+\$7.

Disks of the Month (DOM) from ON THREE Magazine

The most popular programs from the pages of ON THREE magazine on easy to use disks. No more typing in long program listings. Now you can easily use the innovative and popular programs included in each issue of ON THREE magazine.

DOM Contents:

DOM #1 - Disk Pak 1, Key-Things, Graphic-Demos and more!
DOM #2 - Disk Pak 3, DOS File List, Char-DownLoad, SpeedBoot (Un)Lock? and Graphic Demos!
DOM #3 - Keyboard Change Utility, WPL Shorts, WPL Help Screen Move Utility, Graphics Sketcher ///, Disk Formatting Utility
DOM #4 - Emulation Patch, Access /// Startup, Pascalculator, Radiate Graphics Demo, musical melodies, Draw ON /// pictures
DOM #5 - Access /// Startup, Ben's Super Slot Machine, PFS-WPL Merge, Decision Support SpreadSheet, Draw ON Graphic Demos
DOM #6 - Business Basic Program Lister, Noisemaker, Documentation Programs, Spirograph, Surface, Golfball, D.O. pictures & fonts.
DOM #7 - Imagehelper, Sorting and Printer Control
DOM #8 - Directory Sorter, Drive Cleaner and File Reader
DOM #9 - Graphics, Music and more
DOM #10 - Graphics Football Pool, Useful Pascal Prompt procedure
DOM #11 - Apple DMP, ImageWriter, Epson graphics printing utility. Rotate, print large or small graphics in your Pascal or Business Basic programs. Graphics and audio demos.
DOM #12 - Pick lottery numbers randomly, catalog by two way directory scrolling, find text files on disk, print files to screen or disk.

Disks of the Month are priced at \$14.95 each + \$2 s/h. Two or more DOM's are only \$12.50 each + \$4 total s/h.

Games For The Apple ///

Try your luck at breaking the bank! Become a high roller! The **Card Machine** is a realistic simulation of authentic Las Vegas style blackjack. The **Card Machine** uses beautiful full color playing cards. You can control the action with a mouse, joystick, TrackBall or the keyboard. Requires a 256K Apple ///. \$19.95+\$2

Crossword Scrambler is an educational program that makes learning fun. Not a 'shoot 'em up' type arcade game, although you won't be disappointed by the displays and musical interludes. Hundreds of different crossword questions will provide hours of fun for the whole family. \$9.95+\$2

Apple /// Fruit Machine brings beautiful color graphics and exciting sound effects add to the fun of this slot machine type game. Experience the fun of a Las Vegas trip at a fraction of the cost. \$19.95+\$2

Mr. Sandman is a fast paced game modeled after the most famous arcade games of all time (—Man!). Can be used as a stand-alone program or as an accessory for The Desktop Manager within any other application. \$19.95+\$2

*Game Combo Special!

Buy all of the games listed above and save over \$29.00. All four for *only* \$39.95+\$4.

Productivity, Utility & Programming Software

*AppleFile ///

Lets users store, arrange, review information and print reports with a variety of options for summaries. Merge and redesign files without retyping. Prevents filing errors. Checks each entry for conformity to your rules. Simplifies reporting, provides compatibility with RPS. Over 20-30,000 records per file! Self help screens, letter by letter editing, easy tutorial, and special file management features. Requires a hard disk. Originally \$195, now only \$49+\$7.

*/** E-Z Pieces (AppleWorks)

Fully integrated spreadsheet, word processor and data base manager. ** E-Z Pieces combines the power of the three most commonly used program with the ability to quickly and easily transfer data among them. This program was written by the author of the Apple II program AppleWorks - the best selling software package on any computer! AppleWorks & ** E-Z Pieces look and function exactly the same, even the data files can be swapped between Apple II and Apple //. Utilizes the full memory available in your Apple //. 180K on a 256K Apple //, 414K+ on a 512K machine! This best seller was originally \$245. Now only \$135+\$3.50.

*Draw ON ///

THE Graphics Tool for the Apple ///

Transform your Apple // into a combination drafting table, easel and sketch pad! Graphics can be created with the Apple mouse, Trackball, joystick or keyboard. Adjustable grids, built-in self help screens, rubber banding of lines and easy to follow menus make Draw ON // easy to learn, yet very powerful for more advanced users.

A spiral bound, Apple style manual compliments this program. Create bar, pie or scatter charts. Add colors, fill areas with textured patterns and add text in a variety of fonts and sizes. Cut and paste facilities let you to pick up a piece of your drawing and move it, shrink, expand, rotate and invert it. Zoom in for detailed work. Add borders, textures, different typefaces!

You can even design your own fonts. Complete font templates and samples provided. Prints graphics to an Apple DMP, Pro-Writer or ImageWriter. All Epson printers (MX, RX, and FX) are supported. If you have the Pkaso or Pkaso/U interface card you can print to your Centronics, NEC, OkiData, IDS Prism and others.

Graphics Tablet version available for \$15 extra. Requires at least 256K of memory. Installs under Selector // or Catalyst. State printer & interface type when ordering. Regularly \$179, now only \$129+\$5!

*BPI General Accounting

Double entry bookkeeping system. The general package includes accounts receivable, payable and payroll ledgers. Prints out checks and reports. Requires 256K and a hard disk drive. When running under Selector or Catalyst with the Desktop Manager it requires 512K. Was \$495, now only \$59+\$7 - save over \$400!

*Mail List Manager

Maintains and generate mailing lists. Store up to 960 entries on a floppy disk & combine any number of disks to create huge mailing lists. Extremely fast sorting routines allow you to sort an entire disk in less than two minutes. Was \$95, now \$39+\$7.

Utility Programs

*Backup ///

Allows you to make a back-up of the files on your ProFile and restore those files to the hard disk. Backup // may be used with all regular hard disks and floppy disk drives, including the 800K 3.5 inch drives. Your data is your most valuable asset. Don't be caught unprepared. Please backup your files regularly. \$49.95+\$3

Lazarus // File Restoration

If you make a mistake and erase that one file that you can't afford to lose, Lazarus // is all the magic you'll need to bring it back from the dead! Lazarus can restore files on all Apple // hard disks and floppy disk drives. Completely menu driven, works in seconds! Get Lazarus now, before you need it! \$49.95+\$2

RAM Diagnostic Disk

The diagnostic disks will test the memory and general well-being of your Apple //. If you've had problems with your Apple //, get the diagnostic disk today. When ordering please specify 128K, 256K or 512K diagnostic disk. \$15+\$2

Selector // Program Switcher

The state-of-the art program switcher that eliminates the need to swap disks when changing applications. With Selector you can now put all of your programs on your hard disk (or large capacity floppy) and run them from there. Switch from application to application in seconds, not minutes!

Programs such as Apple Writer, VisiCalc, Draw ON // and hundreds of others work perfectly with Selector. Startup your // with Selector and you're done for the day. Requires a 256K or 512K Apple // with large capacity disk drive. Only \$99+\$7.

The UncopyProtect Driver

Allows you to make back-up floppies of VisiCalc, Advanced VisiCalc and AppleWriter //. ON THREE does not condone duplicating copyrighted programs. But, as these programs are no longer supported its a big problem in the event of a disk crash. UncopyProtect Driver allows you to make backup copies of the above mentioned programs for legitimate disk archival purposes only. \$29.95+\$3

Programming Languages

*Apple // Pascal Version 1.1

Develop and execute UCSD Pascal programs quickly. Take advantage of the //s power. Use 64K for program data, the entire available memory for code and graphics. Full integration with SOS gives the benefit of both UCSD Pascal and support for larger mass storage. Incorporates full IEEE standard numerics including single, double and extended precision types. Easy to use. Was \$250, now only \$59+\$7. Save over \$190!

*Apple // Pascal Update (Debugger Version 1.2)

Updates the standard Apple // UCSD Pascal with a powerful debugger. Includes file selection and many other features. A must for serious Pascal program development. Does not contain all of the manuals as in version 1.1. This is an update! \$49.95+\$7

*Apple // Business Basic

This is one of the most powerful basic languages available for any computer! Apple // Business Basic lets you write complex business, educational or game programs for the Apple //. Limited supply. Was \$125, now only \$69+\$5.

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The Desktop Manager

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

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

Add new accessories such as macros, disk utilities, a communications program, games and more at any time.

The Desktop Manager requires an external disk drive of any capacity and a 256K or 512K Apple ///. TDM uses about 32K of memory. A hard disk or large capacity floppy disk drive is highly recommended. Works with Selector, Catalyst and ALL other Apple /// programs. Only \$99.95+\$6.

ASCII Chart

This Desktop Manager add-on lists the decimal, hexadecimal and corresponding character values of all ASCII keyboard characters. A second screen shows the decimal and hexadecimal equivalents of keypresses which include the control key. Keypress table can be invaluable when you need to know printer commands to enable different printer modes. Only \$9.95+\$3.

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The Communications Manager (TCM) is a powerful tool that allows your Apple /// to communicate or talk to other computers or services such as Dow Jones™, CompuServe™, The Source™ and others. Complete VT-52 terminal emulation makes this program really powerful.

You can record incoming text to a printer or disk file for later viewing and transmit standard ASCII and Pascal Textfiles automatically. TCM has every feature of the other Apple /// comm. programs plus error free transmission of files via the popular XModem & Binary II transfer protocols.

TCM also supports Turbo Downloading for ultra fast file XModem downloads. Turbo downloading gives 2400 baud performance on 1200 baud modems!

TCM Continued...

Included with this package is a version of TCM that runs as a stand-alone program and a version that can be run as an accessory under The Desktop Manager. If you have The Desktop Manager you have the best of both worlds! You can be inside /// E-Z Pieces or VisaCalc and send a spreadsheet or data base file directly. Only \$49.95+\$3.

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This TDM add-on allows you to list, copy, delete, rename, lock/unlock files and list the devices, copy, format, rename and verify disks. Virtually all the features of the System Utilities available in an instant. If you've ever typed in info. and then found that you didn't have a blank disk to save it on, the Disk Manager can be a lifesaver.

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The Apple // version is being acclaimed as the best graphics printing program *EVER!* The Apple /// version is even better! The Graphics Manager (TGM) allows you to take any Apple /// black/white or color and any Apple // black/white hi-res, color or double hi-res. color or Print Shop image and print it the way you want it!

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You can set a certain key to contain the name of a city, state, zip code or any other commonly typed item. Phone numbers, salutations or *anything that you type* can be set up to as a macro and played back at a moments notice - via a single keypress!

Macro Manager Continued...

Our innovative Macro Recording lets you type in the information as you usually do and will automatically assign you a key. You can use up to 50 different macro keys at once and switch between sets of macros (MacroMaps™) in just a few seconds.

The Macro Manager eliminates repetitive typing and improves your personal productivity by making the /// faster and easier to use than ever before. Like all the other TDM accessories Macro Manager uses no additional memory. Only \$44.95+\$3.

Super Accessories Disk #1

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

Best of all, each accessory has built-in self help screens and the standard ON THREE power and ease of use. Only \$39.95+\$3.

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Contains the following TDM accessories: File View lets you view another file within a file: Change Font: Show Time (no need to go back to Systems Utilities to change the date or time) plus there's an elapsed timer in this module: Change File Type; File Print, Print Screen better than screen dump, you can opt to Print Screen, Form Feed Printer or Line Feed Printer: Reload and Exit: PKASOU commands and The Warning Module. Only \$24.95+\$3.

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Clocks, Modems, Printers & More

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We stockpiled the ON THREE O'Clocks before chip prices went crazy, so we're reducing the price \$10. Did you know that the Apple /// has provisions for a built-in clock and calendar? ON THREE O'Clock is easy to install. Does not require a slot. Compatible with all Apple /// programs. Simply save your files and the time will be saved along with it. Use the System Utilities to see the date the file was created or last modified. Includes battery holder, cable, clock chip and easy to follow instructions. Battery not included. Only \$39.95+\$3.

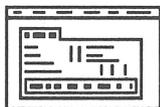
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Modems are the perfect way to enter the wonderful world of communications. Combined with ON THREE's Communications Manager (or other comm. program) you can talk with other Apple /// users on CompuServe™, the Source™, Dow Jones™ and other information services.

We offer both a 1200 and a 2400 baud modem of superb quality. Fully Hayes compatible with auto answer/dial, these modems come in rugged cases and are an exceptional value.

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TrackBall /// New!

A low cost alternative to the Apple Mouse. And it's compatible with ALL major Apple /// programs. 

TrackBall /// is like an inverted mouse with two buttons, instead of the single one on the mouse. Instead of pushing and pulling the mouse around your desk the TrackBall unit remains stationary while you roll the first little ball back and forth. The 2nd button can adjust the sensitivity of the TrackBall.

TrackBall /// comes with a replacement .MOUSE driver that you add to Draw ON and other popular programs. Complete with trackball, interface card, driver disk and instructions.

TrackBall /// can also be used as cursor keys in all Apple /// programs, including Desktop Manager, Visicalc, /// E-Z Pieces & more! Specially priced at only \$89.95+\$6.

Purchase Draw On /// at our regular low price and you can order a Mouse for just \$80 or the TrackBall for only \$44.98.

- Limited time, order yours today -

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The original Apple dot matrix printer. Great condition. Includes a dozen printer ribbons. Perfect for use with all Apple /// programs, including Draw ON ///. A great all around printer. Originally over \$500. Now only \$149.00+\$15.

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The Grappler interface card allows you to connect any printer that uses a parallel interface to your Apple ///. Includes interface card, cable, driver and documentation. Works great in Apple II or //e emulation mode! Priced to sell at only \$69+\$7.

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This reconditioned Amdek color monitor is a great color display. It can display all 16 colors the Apple /// can produce, though the second set of 8 are the same color as the first 8. Includes cables. Great for Draw ON & all other color Apple /// programs. The /// doesn't have color in emulation mode, so Apple II games will still appear B/W. Originally over \$700! Order this great monitor for only \$179+\$25.

Miscellaneous Items For Your Apple ///

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Now you can put ON THREE in its place, for keeps! An attractive vinyl binder will keep your ON THREE Magazines clean, neat, in sequence and ready for quick reference at any time. Each binder holds twelve ON THREE Magazines. Why not order several and get your ON THREE Magazines in order! \$9.95+\$3

Dust Covers

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Apple /// with monitor: \$11.95+\$3

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Made of 100% cotton, they are comfortable, washable and top of the line HANES quality. Sizes: small, medium and large.

Please be sure to give your size and list second and third color choice, because not all colors are available in all sizes. Certain to become a collectors item, they make a thoughtful gift for your favorite Apple ///er! Only \$11.95+\$3.

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AppleWriter Version 4.0 \$15+\$2

Business Basic Version 1.23 \$15+\$2

(Free if Basic was originally purchased from ON THREE)

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PFS File and PFS Report (Copyable): These disks can be backed up with the regular System Utilities program and can be used on Catalyst or Selector without requiring a key disk. \$15+\$2

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Customer Service and Questions: 805-644-3514

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ON THREE - Dedicated To The Development Of Quality Products For The Apple /// Computer

Exciting New Products For Your Apple ///

StemSpeller ///. A Spelling Checker For /// E-Z Pieces

Compatible with standard ASCII files, Pascal Text, StemWriter and most importantly, /// E-Z Pieces word processing files!

StemSpeller /// is fast and very easy to use. Simply save your file in /// E-Z Pieces, run the StemSpeller program and check the spelling of your file.

StemSpeller will notify you of any misspellings and allow you to make changes on the spot! You can even add your unique words to the StemSpeller dictionary.

When you're finished spell checking your document, StemSpeller will automatically save your corrected file to disk. You can go right back to /// E-Z Pieces, load up the file and print it, or make further corrections.

StemSpeller /// comes with a 50,000+ word main dictionary and the ability to create auxiliary dictionaries of words you commonly use. 100% assembly language for speed. Comes as a standard interpreter that can be run by itself or loaded and run under Selector or Catalyst. In stock and available for immediate delivery. Requires a 256K or 512K Apple ///. Only \$69.95+\$5.

Technical Support From Your Apple /// Experts

Technical support is FREE on any product that you've purchased from ON THREE within the last 90 days. After that time, or on any non ON THREE product there is a modest fee for technical support. \$5 for the first three minutes and \$1 per minute thereafter with a \$15 minimum.

Our experts know everything there is to know about the Apple /// and virtually all of its software and hardware. If you're having a problem with your Apple ///, give us a call. There's nothing worse than spending your precious time trying to figure something out, when one of the people on our staff can help you in a few minutes.

The support line is open Monday through Friday 9 AM to 5 PM Pacific time. Please have your product serial number (if applicable), purchase date, your credit card number and a list of the problems you're having ready *before* calling.

Technical Support (805) 644-3514.

StemWriter /// - Powerful Document Preparation

This new word processor from Australia lets you view two files simultaneously and combines all of the features you wanted in a word processing program!

Now you can design your own templates, make headlines, adjust column width, utilize on-screen over-strike & underlining, date stamp documents, count words, label and personalize form letters.

StemWriter has four levels of on-screen subscripts and superscripts, utilizes a desktop like /// E-Z Pieces and the four arrow keys to "see and point". It even uses the full memory available in your Apple ///.

Built-in macros, file management, utilities program and other special features makes StemWriter the premier word processor for the Apple ///.

Compatible with dozens of printers, StemSpeller works on a 128K, 256K or 512K Apple /// and costs only \$99+\$7.

ON THREE, Inc

Your Apple /// Experts

P.O. Box 3825

Ventura, California 93003

A year ago over 1,000 people asked us for a /// E-Z Pieces spelling checker. If you were one of them, please order it today. Doing so will help fund our continued Apple /// development efforts.

Inside are tremendous savings on great Apple /// Software & Hardware products. 25% to 85% off our regular low prices.

Ranntings

by Richard and Lavona Rann

Piracy is growing like a cancer

Over the past few months we've had occasion to meet with a lot of Apple owners. Unfortunately, some of these meetings left memories that are not as pleasant as they might have been under slightly different circumstances. The prime reason for our melancholy is illegal software copying. Most disturbing is the fact that there is some indication that illegal copying of software is becoming institutionalized. We are not so naive to believe that illegal copying does not exist. Those that follow this column regularly, will remember that we have ranted on that topic and its relation to the /// community in the past. We recognize that it does exist, and probably always will.

Something has changed, or at least it seems to us that it has. As recently as last year, it was fairly common for people to think of illegal copiers as "pirates" and to recognize the activity as being a bit shady in its best light. Today there seems to be a softening of the stereotype and a difference in general opinions about illegal copying. In the past, pirating was believed to be isolated to kids, hackers, and all out computer enthusiasts. "Legitimate" business and home users were generally perceived as being relatively honest. Now that appears to be changing.

It may be, that as computers enter more and more homes, a smaller percentage of computer users understand the implications in what they are doing. Many appear to be oblivious to the fact that they are involved in anything "wrong."

While we haven't done an exhaustive study of the topic, we do know how illegal copying affects the developer community and eventually harms the community of end users. The following examples are designed to help each /// owner better understand the issues and the scope of this growing problem and its impact.

THE RIGHT TO COPY?

First, there are people who believe that copying software is a right for any microcomputer owner. Not long ago we met a career woman who holds a junior executive position in which she deals with microcomputers nearly every day. Recently, she and her husband, a vice president with a major, national corporation, purchased an Apple. Knowing of our interests she greeted us with, "We got an Apple G uh something for Christmas." A little discussion indicated that she was in the process of learning how to use it.

We were interested and asked what software she had? "My husband," she replied, "works with a man who owns an Apple II. He let us copy Appleworks. That's what we've been using mostly." The woman did not, for all her computer experience, seem to understand that she was admitting to stealing someone's property.

For some reason she assumed that it was all right to copy commercial software. She was even willing to tell us about it in a room full of people she did not know, without a single thought about the fact that she was admitting to an illegal act in public. With almost any other offense against the criminal code, she would not have admitted it in public. Obviously, she didn't conceive of herself as having done anything wrong.

With people like this, the reason for copying is not one of expense; this woman and her husband are both very well paid. Rather, they seem to have the notion that when they bought their Apple, they also received the right to copy software. In fact, they seem to think that it is actually an expected activity of computer owners. If this were an isolated case it would not have been so bad, but a number of times in the past few months we've had nearly the same conversation with others.

SCHOOLS FOR THEFT?

The second category involves institutional approval for illegal copying. We had a conversation with a woman in a computer store. She was looking for new software for her children to use on the home Apple. She did want to buy something new, but the problem was that the children's school had most of the available software so she couldn't find anything to buy. "The teacher said that I could take home anything they have and copy it," she informed us.

It seems that the school purchases one or two copies of a program and then explodes them into a hundred or more copies. In this woman's mind the school had paid for the software and their permission made the copying all right.

In fact, she believed that what her school was doing was the normal way educational software was distributed. The school was teaching computer usage to the students and at the same time it was teaching the parents and children that software piracy was all right. It is not difficult to see how the idea of copying can spread through the country once it has had the stamp of approval by institutions like our school systems.

It is interesting that most parents we know would oppose any school that taught that shop-lifting was acceptable, and yet, this form of shoplifting was accepted without any difficulty. We suspect that the difference is that software doesn't seem like a product. It is a nebulous, non-real entity that is delivered on a relatively non-valued diskette.

Software companies are not generally known and people cannot identify with the act of creating software. This is perceived as quite different from picking up a "real" product from a store that will suffer a loss. Since the tangible portion of software products, is such a small part of their value, and the injured parties remain mostly invisible, it seems to many that there is no crime and no injured party.

APPLE /// GROUPS TOO

Finally, as much as we hate to acknowledge it, we have even begun to see a few user groups let their vigilance drop and thus appear to support piracy. Despite all the

attention user groups have gotten in the past for being the center of illegal copying, and the major efforts by most groups to quash any activity that would support such allegations, there are some that have either lost control, decided to look the other way, or possibly something worse. Thankfully, today that is still the minority.

Unfortunately, the Apple /// is directly involved in one of the most blatant examples that has recently come to our attention. A major Apple user group, which is recognized by Apple, whose president we know and respect, and which has a strong anti-copying provision in its bylaws, has an Apple /// SIG that devotes a good portion of its meetings to copying software without regard to copyrights.

The actions of the /// SIG became so blatantly unlawful that several of its members felt the need to criticize the actions in public. Regardless of written intentions, the actions of this, one of the country's largest and better run user groups, seemed to accept copying as an integral part of owning a computer.

IS IT JUST A MORAL PROBLEM?

We know that this is just one indication of greater issues relative to ethics and morals in our society. The topic is much too broad to be fully covered in a column like this. On the other hand, the specific issue of software piracy is one that affects every computer user and many future computer users. It is very important for Apple /// users to be aware of the general issue and the more specific impact that it has on them.

We need to educate our friends or we will all pay the eventual price of rising prices and stagnation in software development. The difficulty is that many people see only the short term gain of pirating software and miss the long term difficulties it causes. Like the analogy with shop-lifting, software pirating has many of the same results. The cost of shop-lifting is added into the cost of the merchandise. It is estimated that we pay between 10% to 20% of every dollar spent in a store to pay for shop-lifting.

The same thing works with software. Publishing companies have to raise the price of their software to reflect the number of copies their product would actually sell in-

stead of what it should have sold if this were a more perfect world. The higher percentage of copies that are pirated instead of sold, the higher the costs for those of us who purchase software. Possibly worse than the rise in costs, is the impact on the software industry, innovative and/or niche market items may not be feasible at all due to the need to cover pirating costs.

If illegal copying becomes a larger problem, like it was perceived to be a few years ago, software publishers will be more willing to use copy protection schemes and other ways to keep everyone from making copies. These schemes are irritating at the very least, and can be destructive at their worst. As publishers see their profits disappear because of illegal copying, they will be more willing to put money into making their software as uncopyable as possible in order to slow the drain of profits caused by illegal copying.

We've mentioned it before, but it really does need re-saying, by us and repeated often by each of you. **Illegal copying is absolutely deadly to /// owners!**

Copying affects what will be written and the level of support. Support, new products and upgrades are dependent of money coming in regular intervals. If the flow

is interrupted, it can cause software to be removed from support. In some cases it has caused companies to go out of business.

This is of major concern to the Apple /// community as we have very few sources of support and fewer active developers. We cannot afford to let illegal copying force companies like On Three out of business. Yes, the straw that set off this "rannting" was word that there was "institutionalized" copying of software from On Three. We appreciate their efforts to support our dwindling community and find blatantly illegal copying of their products to be unconscionable.

The Apple /// is more vulnerable than most computers because the community is tiny and shrinking. The pirating of that /// SIG is a danger to each of us. We will only keep people developing for the /// as long as they can make money from selling their products. Pirating software makes it more difficult for them to pay the bills, and consequently to survive. The ultimate cost for us may be the loss of all professional support for the Apple ///. If that happens one second before it has to, it would be a tragedy, and a tragedy that could have been avoided. We implore you to each take a personal stand against illegal copying. ///

TrackBall /// Update - Continued From Page 9

pushbutton by itself controls movement sensitivity in a manner analogous to mouse and trackball mode: By clicking the button, cursor movement is halved/doubled/normalized.

As explained in the documentation, TrackConsole can be easily modified using the System Configuration Program so that the pushbuttons transmit ANY keyboard commands (except RESET and the five .CONSOLE control-keypad commands) In addition, possible development of a Desktop Manager module which allows on-the-fly reprogramming of the keypress equivalents is also discussed. If you're interested in that DTM module, CALL or WRITE ON THREE today and urge them to pursue its development!

The supplied documentation is outstanding: I have rarely seen such comprehensive and thoughtful informa-

tion provided with computer software. The authors are obviously and justifiably proud of their work and wish to share it to the fullest with their purchasers.

In summary, what was a good and useful product has gotten better - much better - thanks to this software upgrade. The new trackball drivers permit TrackBall // / to work with every piece of software on the market. Highly recommended.

ScoreCard — TrackBall ///

PERFORMANCE: Excellent.

DOCUMENTATION: Excellent.

BEST FEATURE(S): Smooth-feeling, very responsive, low-cost AppleMouse™ substitute that requires minimal desktop real estate.

WORST FEATURE(S):

EASE-OF-USE: Excellent.

VALUE FOR THE MONEY: Excellent.

AUTHORS WANTED!

We are accepting article submissions for review and possible publication from readers who are willing to share their Apple /// computer knowledge and experiences with others.

If you would you 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 the job done easier and more efficiently, games and anecdotes. Just about anything that makes for interesting reading!

You need not be a Nobel Laureate for your work to be considered. Just write your article or program in your own style and mail the 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 captivated and spellbound Apple /// users who are interested in every facet of the Apple ///.

**So Come On!
Share Your Expertise With Your Fellow Apple ///'ers!**

To get your copy of the ON THREE Author Guidelines, write to:

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Or give us a call at (805) 644-3514

Letters To Your New Editor

by Bob Consorti

Questions and Answers from your Apple /// Experts

Desktop Manager Driver Woes

Dear ON THREE:

I use several Apple /// machines. One is 512K, 2 ProFiles, 1 External drive. The others also have 2 ProFiles, but are 256K. I use Catalyst 2.1 or Selector.

My recent purchases were for the Disk Manager & Macro Manager. The latter one is a major issue again as it gets into the SOS.DRIVER. I use the Catalyst dynamic loading feature for drivers I know will work (maybe I do not know All that could be used here? A List?) Still, my boot disk has a substantial SOS.DRIVER file. I'm including some info. on it to give you an idea. If you have any constructive suggestions to repack my SOS.DRIVER, I welcome them.

If I use the Desktop Install procedure as you describe to install the Macro Manager version of the Desktop Manager driver, my drivers will be "out of sequence" again. That means that a printer driver will not function or various drivers will not be available. This is not due to the SOS.DRIVER file size, but it is due to the positioning of the drivers within the file itself. It took many hours to get my present SOS.DRIVER to work properly. If you feel up to a challenge, I could send a copy of my boot disk for experimentation.

If I buy the Graphics Manager, will there be another need to modify the SOS.DRIVER? Are you planning to complete the work on other Apple /// programs? I would be very interested in the alternative to Backup ///, especially one that is fast, good for hard disks and not so intolerant. Also the ability to print my spreadsheets or database reports in a sideways position on 8 1/2 x 11" sheets would be great. A procedure to have more drivers that could be dynamically loaded would also be helpful.

Thanks Much,

Jim Reisinger
Skokie, Illinois

Dear Mr. Reisinger,

The problem you are having with drivers is unfortunately not too rare. I do have a way around it but it will take a little bit of effort on your part. I imagine you have the Catalyst spooler drivers and that is the main problem with the 'out of order' drivers.

The Desktop Manager installation program automatically adds the driver(s) from the file DESKTOP.DRIVER on the front side of the installation disk, when you select the Add Desktopmanager Driver option in the installation program. This means that you can place a couple of extra drivers into the DESKTOP.DRIVER file and then use the installation program to add those drivers in addition to the .DESKTOPMANAGER driver.

Use the System Configuration program to read in the DESKTOP.DRIVER file and then read in whatever drivers you want to appear after the .DESKTOPMANAGER driver. Generate and save this set of drivers to the file DESKTOP.DRIVER on the Desktop Manager installation disk. One side note, the file must not exceed 32K (65 blocks) on disk.

Next, boot up the installation utility and select the Add a driver option. Use it to add the driver set that you just created to your boot disk(s). This procedure can be used to add those troublesome drivers to your SOS.DRIVER file when the System Configuration program can't.

The Graphics Manager requires no special drivers so you shouldn't have a problem with it.

With regards to our new and future products, we are releasing some new programs for the Apple ///, but to be perfectly frank there just isn't the market to warrant much further development. A case in point is the spelling checker for /// E-Z Pieces. A year ago we asked what people would buy and over 1,000 said a spelling checker for /// E-Z Pieces. Since we released it three or four months ago we've yet to sell 100!

The /// people are simply dwindling and our development efforts must also dwindle as our sales levels do. The Backup /// replacement probably won't go any further as we don't think there is enough of a market but that may change if enough people request it. We are about to release the SOS Driver Optimizer that lets you easily build SOS.DRIVER files of almost any size (subject to the SOS limit of about 60K) and I hope that helps you configure things more easily in the future.

512K Upgrade - Desktop Manager Notes

Dear Doc:

Thank you for your letter of February 23, 1988. Pursuant to your instructions, I am sending you the backup copy of my Catalyst disk so that you may upgrade it to recognize the 512K expansion. I would have sent you both disks, but I cannot function without at least one of them.

Thank you for your support and assistance. Please let me know if there are any shipping or other charges.

Your Truly,

John L. Ryder
Memphis, Tennessee

Dear Mr. Ryder;

I'm sorry for the delay in getting this disk back to you. Dave is no longer working for us and it's taken me some time to get everything straightened out. Your disk has been updated and I've verified that it works fine on our system.

However, the problem wasn't really a problem, it was just a simple misunderstanding. When using the 512K upgrade utility to update your different disks to recognize the 512K, they first check to see if it's a regular disk. In most cases it finds a regular disk and simply updates it.

In the case of your Catalyst disk it seems that you had already installed the Desktop Manager. Doing this also updates the disk to recognize the 512K upgrade so further updates are not needed.

If you've added the Desktop Manager onto your other Catalyst disk, it will automatically recognize the 512K and you won't need to send it in for an update.

Macro Manager - Mouse Conflict

Dear Doc,

In August last year I received the Desktop Manager and the mouse with interface board. It all worked fine and I could use the mouse with Selector /// and other programs. Last December I received the Macro Manager and since that time the mouse will only work with Draw ON /// and the Graphics Manager. Could you please let me know what the problem is, do I need a different .CONSOLE driver? I would like to use the mouse with all applications.

Yours sincerely,

Jos Wils
New Zealand

Dear Mr. Wils,

Dave is no longer working for us but I'll be happy to answer your question. The problem you're experiencing with the Macro Manager is a common one.

The Macro Manager uses some of the things that we were using with the mouse that enabled it to act as cursor keys. Thus, using the Macro Manager precludes using the mouse cursor movement capabilities. We've changed some of our ads for TDM and will make it more clear in the near future that when using the Macro Manager you can't also get the optional mouse movement. I'm sorry about the confusion.

Since you updated from the original version of the Desktop Manager the mouse movement capabilities are no longer possible. Dale Sykora, author of the TrackBall /// driver thinks he can produce a modified .MOUSE & .CONSOLE driver for Macro Manager (and non Desktop Manager users) so the mouse/arrow keys movement will again work. We will keep everyone posted as to these developments.

New Apple /// User Needs Help

Dear Sir,

I am sending this letter in an attempt to gain information and assistance with a current problem. I recently purchased an Apple /// (used) through a consignment outlet. I am currently having difficulty in obtaining information pertaining to the Apple ///.

After doing a little investigation on my own, I have found that the Apple /// was a short-lived model that was not marketed correctly. I am currently a full-time college student, working towards a BA degree in Accounting. The local Apple dealers have limited knowledge of, or paraphernalia pertaining to the Apple ///. The system that I purchased came with some software, but it is limited, and I have no information that will assist me in finding compatible software, or hardware to competently within budgetary constraints, upgrade the Apple /// to increase its usability.

I have an Apple II emulation diskette, but do not know exactly what up-to-date Apple II software it will accommodate. Will the Apple /// with Apple II emulation software run AppleWorks? I also have a problem with word-processing, in that utilizing Apple Writer /// with an Okidata U82A, that was part of the purchased system, I cannot get printed material double-spaced even though I place the correct entry into the Print/Program format commands, Line Interval command.

I would appreciate any and all assistance that you can render. I would also request that you send me a free catalog, as advertised in A+ Magazine. I am now limited by ignorance of information in which to best utilize the system I've purchased.

Gratefully Yours,

George W. Haney
Jaffrey, New Hampshire

Dear Mr. Haney,

Enclosed please find a sample copy of our monthly magazine for the Apple /// in addition to a full product catalogue. You are encountering many of the same problems and have the same questions as a great number of new Apple /// owners. Well, ON THREE is here to help you.

We carry a full line of software and hardware products for the Apple ///. Probably the best place to gather information is ON THREE Magazine, the only monthly magazine devoted to the old Apple ///.

The Apple /// suffered in its time from a lack of marketing. The machine was and still is more powerful than many of its contemporaries. It simply got caught in the cross-fire of the early Macintosh.

The Apple II Emulation disk provides a 48K Apple II Plus. That machine is about ten years old, which at the time the Apple /// was being designed was the most powerful Apple. Many software packages will run on the old Apple II Plus. Some require a later model of the Apple II, such as a 64K Apple II Plus, or an Apple //e or //c. Packages requiring the characteristics of these machines will not run in regular emulation mode. AppleWorks is one such package that requires an Apple //e or //c to run.

There is a set of interface cards called the Titan ///+//e boards that allow you to use your Apple /// as a 128K Apple //e. The boards are in short supply as the company filed for chapter 11 a while back and I can't give you a source for them. You may want to try a local Apple user group.

Apple /// users have a program called /// E-Z Pieces which was the forerunner of AppleWorks. It's functionally the same as AppleWorks. However, it doesn't have the mail merge capability of the latest 2.0 version of AppleWorks. You can purchase that product through us if you like.

I'm not sure of the problem with double spacing in AppleWriter but I will put it to our readers and hopefully someone will be able to provide an answer.

Quick File vs. /// E-Z Pieces

Dear ON THREE:

Our bank currently has a 256K Apple /// which we have had for over five years. We are using Quick File for a data base and it has worked well for us to date. I enjoyed reading the Data Base III article in the January 1988 publication. It sounds to me as if Keystroke is a good product and maybe I should consider it as a replacement for Quick File. The problem that we presently have with Quick File is that there are only 15 categories allowed per record. We have utilized all 15 categories but need additional ones.

We are wondering how much trouble it would be to transfer our Quick File files to the Keystroke Data Base. In addition, I am curious as to whether or not there are any things which Keystroke does not have the ability to do which Quick File does do. When transferring to Keystroke Date Base, do the various reports in Quick File transfer to Keystroke with little problem?

We have approximately 250 records in one file with 15 categories each. In addition, there are eight reports that are generated from the date base.

We are interested in your advice regarding this possible transfer of information.

Sincerely,

Frank G. Vretis
Silvis, Illinois

Dear Mr. Vretis,

I'm glad you enjoyed the article on data bases. It did contain some useful information. In your circumstances I don't believe Keystroke would be the best alternative to Quick File.

The best bet would be a product called /// E-Z Pieces. This is an integrated package that combines a data base, word processor and a spreadsheet into one program. It was written by the same person who wrote the Quick File program. Consequently the data base portion of /// E-Z Pieces is very similar.

While similar it is much more powerful. It is written in assembly language versus Pascal for Quick File, thus it's about ten times faster. Plus, there are 30 categories per record available and the other limits have been greatly increased. On your 256K system you will be able to hold up to 2300 records, depending on the size of each record.

I feel /// E-Z Pieces is best suited for your needs for the above mentioned reasons and for the best one of all. /// E-Z Pieces will directly read and convert your Quick File information automatically. Converting a file over takes a shorter time than it does to read the file into Quick File as /// E-Z Pieces is so much faster in all respects.

I hope that this has helped you decide which way to go. We offer /// E-Z Pieces for \$135 and \$3.50 for shipping and handling. If you like you can call an order in on our toll-free order line. That number is (800) 443-8877.

Pascal Programming Questions

Dear Paula;

My name is Michael Lyons and I have been a subscriber of your magazine for about three years now and enjoy it very much. I am also thankful for all the support

your organization has given me over the years as well.

I am writing to you to ask for help with some programming techniques. I am interested in Pascal and Assembly programming and have taken Pascal programming at the schools here during night courses. What I would like to know how to do is write a Pascal program and make it self bootable without having to first load Pascal and then run the program. I'm trying to make the programs I write more professional.

I would appreciate if you could send me some information on how this can be done, and maybe a sample program of how to do this. Some of my weaker points are:

- 1) Opening and Closing files for disk storage
- 2) Reading a disk file
- 3) Making a self bootable program
- 4) Assembly routines

I find that if I could see a routine that will do a certain function, I pick it up easier and then could incorporate it into my own programs. Right now I am using the Pascal Library routines designed for the MS-DOS computers and am trying to incorporate them into Apple /// use.

A suggestion for your magazine may be to take a program from scratch (ie. For the basic dummy so to speak), and walk them through the program step by step thus reaching a bootable program.

Thank you for your time and effort with my problem. From a frustrated Pascal programmer.

Yours truly,

Michael Lyons
Canada

Dear Mr. Lyons,

Paula is no longer with ON THREE. I'll be producing the magazine now.

Regarding your questions, to make a bootable Pascal program disk follow these directions: Instead of eXecuting the Pascal program simply make a copy of your System Utilities disk and delete the file SYSTEM.STARTUP from it. Next, copy your program to this disk with the new name SYSTEM.STARTUP. If your program requires any library units, then those units must be in the file SYSTEM.LIBRARY that you should also place on that disk.

I'll place your letter in the letter to the editor section of the next magazine and hopefully someone with a bit more experience in Pascal will offer a sample program or article series as you suggest.

Thanks for all of your comments and continued support.

StemWriter Updated For Selector - Catalyst - Desktop Manager Usage

Dear Friends at ON THREE,

I need some help with StemWriter /// and Selector //. I have followed the instructions for installing an interpreter program as per the Selector installation guide. However, I get the message System Failure = \$10 on the first StemWriter /// screen.

StemWriter /// boots okay from the program diskette. My StemWriter /// serial number is 500385. Will the StemWriter /// support a laser printer? With StemWriter ///, I received DOM's 11 and 12. In the past there has been some instructions with the DOM's. There was none with these two.

Sincerely yours,

John C. Laughlin
Honolulu, Hawaii

Dear Mr. Laughlin,

The version of StemWriter you are using does not support installation under a program selector like Catalyst or Selector. That's the bad news, the good news is that the author corrected the problem and it will now work under program switchers. Simply send us your original disks and we will update them at no charge.

The update also corrects a problem when working with The Desktop Manager. Well, the original version wouldn't work with TDM! Actually you could use TDM with StemWriter but pressing ESCAPE to return to StemWriter would leave you on the 40 column StemWriter entry screen! It was a simple task to correct and the current version works perfectly with Catalyst, Selector and The Desktop Manager, though not necessarily in that order.

StemWriter will support any printer that the /// can print to but doesn't offer any additional support for particular laser printers.

Those DOM's were produced without my supervision and consequently didn't have any documentation. I'll be producing all future DOM's and they will all have a descriptive page or two.

UDC - 6502 Incompatibility

Dear Bob:

Here is the Chinon disk drive, CPS Universal Disk Controller board and the ON THREE driver software that has been giving me such fits.

As I mentioned on the phone, the UDC card and Chinon drive work fine with an Apple //e. I ran them in slot 4 and successfully formatted a disk, saved a file to it and retrieved the file.

On the Apple /// there was no disk drive response to anything. Attempts to format resulted in a "Format error #109. Internal program error" message. Other attempts to access the drive produces "volume not found" errors. At no time did the drive even act like it was on line.

I've configured the card for every slot with the same results - including a known good slot, #1, which I use for my serial card.

The quicker you can return this to me, the sooner I can start using all of that wonderful ON THREE software I bought from you last month.

Your truly,

Dick Immel
Moraga, California

Dear Mr. Immel,

Enclosed are your UDC and 800K drive. I tested them out on our machine and they worked perfectly. It's recently come to my attention that some of the microprocessors used in the /// have a timing problem with the UDC card. Also enclosed is a replacement 6502 microprocessor. This worked fine in our machine with your UDC and 800K drive attached.

The new 6502 chip should be placed at location B-7 on the main logic board. If you have any questions about doing this, please give me a call. Note that your 6502 may be labeled 6502A or 6502B. Don't worry, they're the same chip.

Just take out the old one and put in the new one, making sure not to bend or break any of the chips pins.

Put the /// back together and everything should work properly.

After you swap chips, please send me your 6502. I'd like to see if there's something on it that we can identify as causing the problem. We now think that some of the 6502's out there were made when the tolerances weren't as good as they are today. This might be causing a timing problem with some of the Apple ///'s out there. ///

DeClassifieds

Want to Buy Apple /// System Software SOS, Utilities and Emulation. Must be in original box and in good condition. Ask for Kathy. (805) 644-3562.

For Sale 256K Apple /// with monitor. FREE software. \$300. Robert (415) 638-8902.

For Sale One Apple /// 256K, 10 meg. Trustor Hard Disk, 5 meg. Corvus, lots of extras \$500. Call Robert Brent (707) 829-0605.

For Sale 256K Apple ///+ with monitor, ProFile, Printer and Modem. Software included. \$995 Technical adjustment needed. (818) 281-9571.

For Sale Apple ///+ 256K with monitor, printer card and lots of software. Best offer takes it. Barry Rose (408) 435-6107 Days. (415) 327-1356 evenings.

For Sale COMPLETE SYSTEM **
Apple /// with monitor /// 256K, ProFile Hard Disk (5meg.), External drive, Okidata 93 Printer, lots of software. \$1250.00 (+ shipping) or best offer. Joan or Virginia: (305) 444-4493, 10 a.m. to 6 p.m.

DeClassifieds Work!

Been searching for hard to find hardware or software? Need to sell some excess equipment? Try an inexpensive DeClassified ad in ON THREE Magazine. Our readers tell us that they really get results! Place your ad by phone or mail. All copy must reach us 45 days prior to publication date, e.g. May 15 for the July issue.

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Make Backup Copies Of AppleWriter, VisiCalc and Advanced VisiCalc

with the ON THREE *Uncopyprotect Driver*. We haven't changed our policy regarding duplicating copyrighted programs, but since many Apple /// software products are no longer supported, owners of AppleWriter ///, VisiCalc and Advanced VisiCalc are facing the problem of what to do when their program disks "Crash."

After much consideration we decided to make a product to solve this problem. The *Uncopyprotect Driver* will allow you to make backup copies of these three programs. For the first time you can put your master disk in a safe place and boot from the duplicate.

The *Uncopyprotect Driver* is economically priced at only \$29.95 plus \$3 shipping and handling. The *Uncopyprotect Driver* comes complete with full documentation and will work with Selector /// and Catalyst. The *Uncopyprotect Driver* is sold for legitimate Archival purposes only. ON THREE does not and will not and will not condone program copying for any other purpose.

Next Time In ON THREE:

Learn about the new Forth language for the Apple ///

Using The Desktop Manager to "Fill In The Holes" of other programs

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

How Would You Like A

Fast Reliable Easy To Use

Hard Disk Backup Program?

Well, you know I'm not talking about Backup ///! After years of complaints about Backup /// being too slow and in many cases losing people's important information we've decided to do something about it. We know that many people *never* backup their hard disk because Backup /// is sooo slow or because they've had a bad experience with it losing information.

A while back we started work on a product we're calling Go Back. It's a replacement hard disk backup program for your Apple ///. 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're looking for.

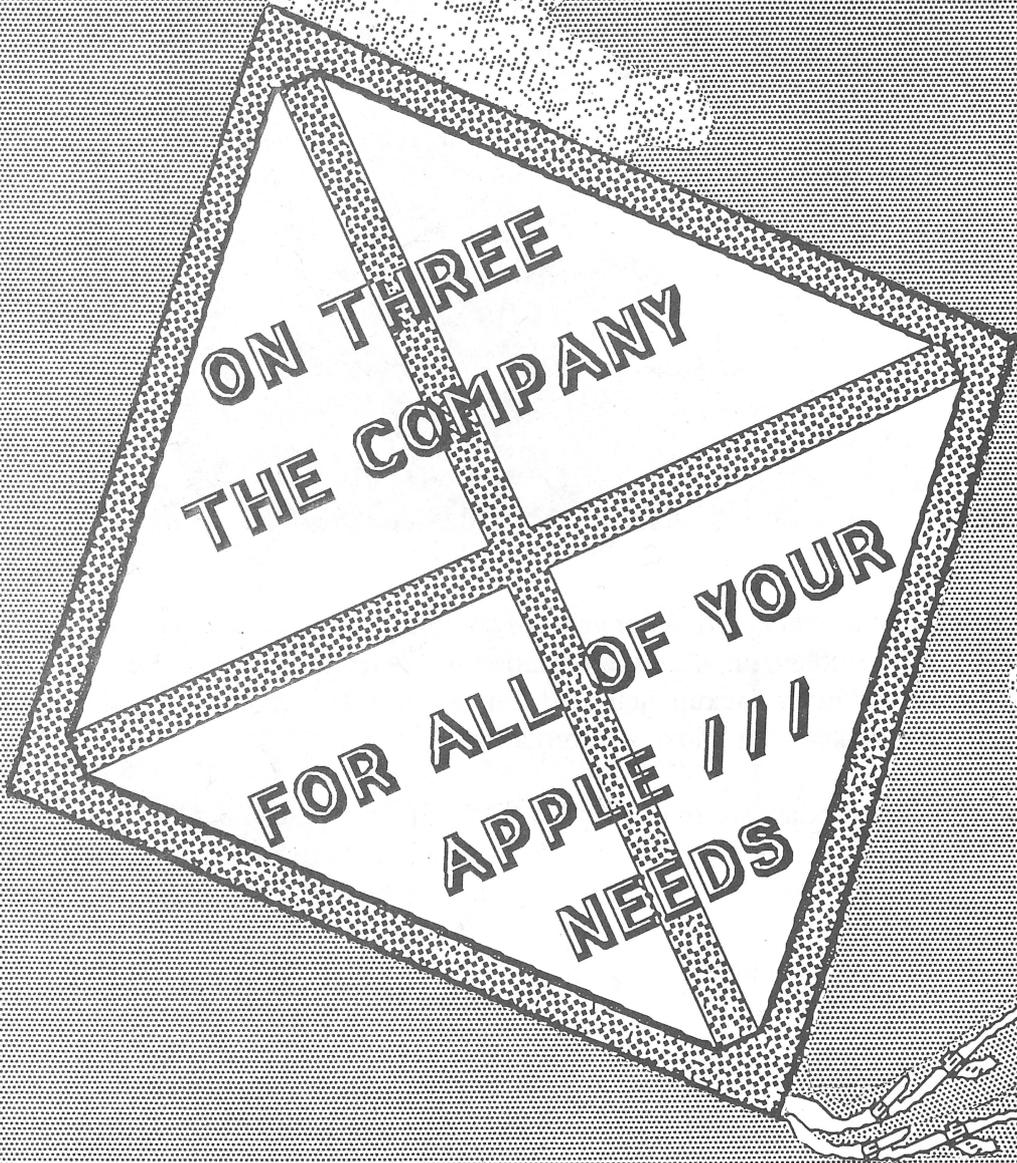
Go Back is written entirely in assembly language for speed, is four to five times faster than Backup /// and much more reliable. We guarantee it!

Now you're probably wondering why this isn't an advertisement for Go Back. Well, in a way it is. You see 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 spending the time 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 we know that at least two hundred people will buy it, we'll finish it.

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 (805) 644-3514. Just leave your name and address so we can notify you if and when the project is finished. It's that simple!

If you've ever had problems with Backup /// or worse yet, never backup your hard disk because it takes so long with Backup ///, please give us a call. If you know of another Apple /// user who has similar problems, tell them about this offer! The more people who call, the quicker you'll get a fast, reliable and easy to use backup program for your Apple /// hard disk.



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