

WRITE UP PLEASE

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# TAW Worm Words

MAY 1984

Vol. 2, No. 5

This is the official publication of the Tidewater Apple Worms and is dedicated "hole-ly" to their wishes. Current meetings are held every second and fourth Saturday at the Naval Amphibious School Building, Naval Amphibious Base, Little Creek, Va. The general business meeting is at 2:00 PM and the Special Interest Group (SIG) meeting is at 3:15 PM.

#### CLUB OFFICERS

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All articles, letters and ideas can be submitted on disk (Applewriter, Applewriter II, Screenwriter II, Easywriter, or text files), on paper, or by telephone (via modem) to :

Pat DeVinney  
Worm Words Editor  
2261 Indian River Road  
Virginia Beach, Virginia 23456  
Phone: 721-3056

#### AD RATES

All ads must be received by the editor by the 20th of the month to run the following month. The rates for camera ready ads are:

Full page - \$36.00  
Half page - \$18.00  
Third of a page - \$12.00  
Quarter page - \$9.00

Club 24 Hour Bulletin Board Number 543-7194

MICHAEL FISCHBEIN  
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EDITORIAL COLUMN

After seven months as editor I think it is about time I recognized a faithful worker for his tireless efforts in helping the editor get the newsletter put together, stapled, stamped and mailed each month. Many people have helped off and on, as needed, and I want to express my thanks for their assistance, but one person has helped consistently each and every month. The fact that he is my eleven year old son and around all the time anyway does not lessen my appreciation of his efforts. With this in mind, I would like to officially introduce Sean DeVinney as the Assistant to the Editor of the TAW Worm Words. Congratulations Sean! You now have a title to go with all the work. Anyone else who would like to put in long hours for official recognition and a thankyou, can apply to the editor. Positions are open to every one regardless of age or experience. All it takes is an interest in the field and a willingness to do the work. The positions are defined as follows:

Reporter - Gather facts on any subject of interest to you. It can be on a particular Apple machine and the software and hardware that work with that machine or it can be on a single program or program type (such as Screen Writer II and wordprocessing), or it can be coverage of articles in a computer magazine you read every month. The odds are, if you are using your computer at all, there is something you can contribute to the news letter for everyone to enjoy. If you can't contribute something every month, you can be a part-time reporter.

Ad salesperson - Visit computer and computer related businesses to seek ads for the newsletter. Many members visit the computer store near them often to check on new software and hardware as it arrives. An extra few congenial minutes armed with the latest copy of the Worm Words as an example could extract an ad from the computer business which would help defer the cost of publishing the newsletter.

Typist - Type articles reprinted from other newsletters.

Secretary - Handle any necessary correspondence and phone calls to obtain information relating to publication of the newsletter.

Researcher - Find and bring together facts on computer subjects as needed for the newsletter.

Correlater - Put together and staple the pages of the newsletter.

Special assistant - Do any and all of the above jobs as well as anything else that comes up.

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FOR SALE

Used Apple II+ For Sale CHEEP!  
Call Jerry Rowe, 623-0395/625-0133.

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SPECIAL NOTICE

Until further notice, there will be a membership list \* available at Little Creek's gate #4 to facilitate entrance \* to the base by members not possessing base stickers. \* These members will only have to show their driver's \* license and registration card and have their name check- \* ed off the membership list to obtain a one time visitor's \* pass to attend the club meetings. These passes must be \* turned in at the gate as you leave. Non members who do \* not have base stickers may not be able to get on the base \* to visit club meetings. \* As of April 1,1984, safety belts must also be worn \* while riding in a vehicle on the base. Misuse of these \* privileges could result in loss of privileges to not only \* offender but also the entire club. We must not forget \* that we are on the base as guests of the Navy and if we \* make trouble we will no longer be welcome. \*

\* NOTE:The information in this space is changing constantly, \* sometimes overnight. We will do our best to keep the club \* members informed of the latest update available. \*

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SIG REPORT

GREEN APPLES - May 12, after the regular business meeting. Everything You Wanted To Know About DOS But Your Momma Wouldn't Tell Ya. For more information call Jerry Rowe (625-0133).

BUSINESS - May 7 & 21 at 7PM at Memory Bank. Currently studying word processing. For more information call Ed Dean (481-0275).

LOGO - May 14 & 28 at 7PM at Memory Bank. For more information call Ed Dean (481-0275).

PROFESSIONAL EDUCATION - Meeting once a month. Open to all elementary and secondary teachers and administrators. Topics for discussion will cover using the computer to assist instruction in the classroom. For more information call Anna Henderson (627-3885).

GAMES/SIMULATIONS - May 12, after the regular business meeting. Come and enjoy the demonstration and hands on action of Torpedo Fire, a World War II surface verses submarine game. For more information call Harold Henderson (340-6189).

MAINTENANCE AND HARDWARE - May 12, after the regular business meeting. Trouble shooting power supplies. Demonstration and tutorial by Dennis MacDonald (422-9810).

NEWSLETTER - Meeting at least once a month to study word processing, graphics, printing, modems and Basic programming as they apply to publishing a newsletter. Open to all ages. For more information call Pat DeVinney (721-3056).

MACINTOSH - A SIG for Macintosh enthusiasts is now forming. If interested, contact Jesse Ivers (340-1206)

PERSONAL DOS

FREE TO TAW MEMBERS

**MULTIPLAN AND MURPHY'S LAW**  
from LAUGHS, March/April, 1984

## TAW SOFTWARE LIBRARIES

**Multiplan Bug:** Some people are holding off buying a Mac because they don't want to be pioneers. It's not that they lack the pathfinding spirit; it's that they don't want to run the risk of getting a brand new, untested machine that runs brand new untested software. Somewhere, there's got to be a bug. No matter how good the machine, there's got to be a bug...

Well, there's good news and bad news. The good news is that Mac is a very good machine. The bad news is that there's a bug. The bad news isn't nearly so bad as it might be-- the bug is in the software, not the machine. To be precise, the bug is in Multiplan.

Here's what happened. Apparently, several days before the Mac release, Apple made a last minute change in the Mac operating system. The change was not supposed to affect programs written for the original operating system, but it does seem to have caused one small problem in Multiplan. When a spreadsheet gets built out to, say, column thirty eight or thereabouts, Multiplan is prone to crashing; when it happens, Multiplan destroys the copy of the worksheet saved on disk.

The moral of the story is: If you have Multiplan for the Mac, check the release date of the version you have. If the release date on your copy is January 24, sorry, you've got the bugged version. Run, don't walk, to the store where you bought Multiplan and get the upgraded version. According to Infoworld, it bears a release date of January 31. If all else fails, call Microsoft on their hotline (206-828-8089) and arrange to exchange your disk to them.

Let me add one more warning. I've heard rumblings that some people have had problems with the January 31 version. For that reason, I haven't exchanged my copy yet (but then again, I'm not building thirty eight column spreadsheets at the moment). And if you exchange with Microsoft, you have to send them your old copy of Multiplan before they will send you a new one. In plain English, you may be without Multiplan for several weeks, another result of Microsoft's enlightened backup policy (no backup provided, and not copiable).

**Other Goings On:** The Apple modem is supposed to be available imminently. The add on disk drive is going to be a while. The next wave of software is supposed to be out in April. The Computer Shoppe (Louisville Galleria) should have some Mac demo software from Microsoft shortly, including a Microsoft Word demo. For those interested in a keypad, it's available now at both Computer Emporium and Computer Shoppe.

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#### FIRST LAW OF REVISION

Information necessitating a change of design will be conveyed to the designer after - and only after - the plans are complete. (Often called the "Now they tell us!" Law.)

#### THE SECOND LAW OF REVISION:

The more innocuous the modification appears to be, the further its influence will extend and the more plans will have to be redrawn.

From Murphy's Law and other reasons why things go wrong!  
page 33, by Arthur Bloch, Price/Stern/Sloan Publishers, Inc.

There were a lot of changes with the TAW libraries in April. The new library card system for the Rental Library was implemented and seems to be working quite well. Four new programs were also added. They were KEY PERFECT, a check sum program for entering BASIC and assembly language programs; SILICON SALAD, a Beagle Brothers utility disk; a revised edition of STEP BY STEP 1, a BASIC tutorial; and a new text adventure called LOREDING OF YORE.

In addition the Library Committee has been working on the club's collection of of Public Domain Software (PDS). This library currently contains more than 100 volumes and an additional 150 volumes are on order. The PDS Library is divided into 6 sections. The first is the IAC section which contains the disks received from the International Apple Core as a benefit of the club's membership in the IAC. The second section contains disks relating to the EAMON adventure series. Third is the general interest section which contains an assortment of programs obtained from many sources. The next 2 sections are made up of software that does not run under DOS 3.3. These are the Pascal section and the CP/M section. Last is the TEXT file section which is to be implemented in the near future. This section will contain text files designed to be used by other programs such as VISICALC and LOGO.

While not every program works perfectly, the Library Committee is currently going through all of the programs to determine which of them do not work and to hopefully fix them. The committee also plans to restructure the general interest section, grouping the programs not only by function (games, utilities, ect.) but also by type (I.E. all Applesoft or Integer on a volume). After this reorganization the committee hopes to be able to provide some sort of computerized index for all the programs. Currently a 30 page listing of the public domain software in the library is available from the librarian for \$2.00. Below are brief descriptions of a few volumes.

VOLUME E01 - This is the master disk for the EAMON adventure series and contains 'The Beginners Cave' adventure. The club also has over 40 other adventures in this series plus several utility volumes that enable you to design your own adventures.

VOLUME 229 - This volume contains programs which teach the capitals of the states, capitals of the nations of the world, a reading speed drill, two artillery games, a lunar landing game, plus several other assorted games.

VOLUME 231 - This volume has a major tutorial on BASIC programming, several assembly language tutorials, and a useful example showing how to organize your programs to make them easier to follow when you go to debug them.

These and the other PDS volumes are available to all club members for a 50 cent copying fee per volume.

Q & A

by Bruce F. Field  
Washington Apple Pi, April 1984, page 12

Q. I have an Apple II+, an Okidata 92 printer, and Apple Writer II. My problem is that when I try to underline a group of words that are split between two lines, the underlining starts where it should, continues to the end of the line, and then starts at the left edge of the paper and extends to the end of the group of words. Why is it underlining where the left margin should be? Do I have to stop the underlining at the end of the line and start it again at the beginning of the next line?

A. The problem is that there are two different ways to underline words. What you apparently are doing is sending a character sequence TO THE PRINTER telling it to underline. This works except for the case you describe. Apple Writer generates a left margin by printing spaces at the beginning of each line. If you have specified a left margin of 10 in Apple Writer, then 10 spaces are printed at the beginning of each line. Your printer isn't really aware of what is happening, all it knows is that it should underline every word including spaces. The way around this is to use the Apple Writer underline command, the backslash "\". Type the backslash before and after the words you want underlined and it won't underline the left margin. (Since Apple II+s don't have the backslash character, Apple Writer II lets you use the shift control-P to generate it.) What Apple Writer II does is to print the character, "print" a backspace, and print an underline character. This works fine on most printers but on some EPSON printers the underline character is one dot shorter than it should be so the underline comes out as a series of dashes. You can use the EPSON underline command to get a solid line but you should realize that you will run into the problem described above.

There is a bug in Apple Writer. When it stops printing the underline it prints an extra blank character. This is particularly annoying if the next character is punctuation and no space is desired. The way around this is to put a backspace character between the backslash (which turns the underlining off) and the next character. This can be done by typing control-U, left-arrow, control-U.

Q. I have asked everyone I know as well as called many others to find out if anyone knows of a lo-res screen dump program. A few have said that they seem to remember seeing something like that in one of the computer periodicals but can't exactly remember. Do you know of such a program?

A. I am sure there are many such programs around. I have received a rather unique one in the mail from Douglas Seeley of High Bridge, NJ. Doug's program (listing 1 below) draws an outline of the lo-res picture, and as Doug says, "In order to complete the pictures, you need one additional piece of hardware - a box of crayons". Although Doug doesn't say, his program is apparently written for the EPSON printers, witness lines 60 and 220.

However it should not be too difficult to modify it for other printers. Line 60 changes the printer to condensed printing and the line spacing to 8 lines per inch. The CHR\$(14) in line 220 returns the printer to normal type size for printing the heading. Just substitute the appropriate codes for your printer. If you don't have a //e, you won't be able to enter the "]" character that appears in several lines. Replace the ], the spaces, and the quotes with CHR\$(124)" ", CHR\$(124)" ", CHR\$(124)" ", AND CHR\$(124)" " respectively for lines 90, 120, 130 and 140. The underline character is printed by CHR\$(95).

If you are willing to compromise on quality somewhat (or you doctors won't let you play with sharp things like crayons), it is not hard to write a program. The problem is that it is difficult to represent the colors. Listing 2 shows how to do this. Each symbol is printed twice to better maintain the aspect ratio of the screen. For even better results you should change the line spacing to 8 lines per inch. You should already loaded the picture into the graphics screen when you run this program.

LISTING 1

```
10 REM PAINT BY NUMBER BY DOUGLAS SEELEY
20 LF$ = CHR$(10)
30 INPUT "LOAD WHAT PICTURE?";F$
40 GR
50 PRINT CHR$(4)"BLOAD"F$,A$400*
60 PRINT CHR$(4)"PR#1": PRINT CHR$(15) CHR$(27)*0*
70 PRINT " * "; FOR X = 0 TO 39: PRINT "___";next: print LF$
80 FOR Y = 0 TO 39
90 PRINT "|"; FOR X = 0 TO 38:SC = SCRN(X,Y): IF SC ( )
   SCRN(X+1,Y) AND SC ( ) SCRN(X,Y+1) THEN PRINT CHR$
   (SC+97); GOTO 110
100 PRINT " * ";
110 IF SC = SCRN(X+1,Y) THEN PRINT " * "; GOTO 130
120 PRINT "|*
130 NEXT : IF SCRN(X,Y) ( ) SCRN(X,Y+1) THEN PRINT
   CHR$(SCRN(X,Y)+97)*|": GOTO 150
140 PRINT "|*
150 IF Y = 39 THEN 200
160 PRINT " * "; FOR X = 0 TO 39: IF SCRN(X,Y) = SCRN(X,Y+
   1) THEN PRINT " * "; GOTO 180
170 PRINT "___";
180 NEXT : PRINT LF$
190 NEXT Y
200 PRINT " * "; FOR X = 0 TO 39: PRINT "___"; NEXT :
   PRINT LF$
210 PRINT LF$: PRINT "a=black b=magenta c=dk blue d=purple
   e= dk green f=gray g=blue h=lt blue i=brown j=orange
   k=gray l=pink n=grn n=yellow o=aqua p=white"LF$LF$
220 PRINT SPC(66-LEN(F$)) CHR$(14)F$LF$LF$
230 PRINT CHR$(4)"PR#0*
240 END
```

LISTING 2 - Generic lo-res screen dump

```
100 SY$ = "%$?*(!#&).+,*"
```

(cont. on page 7, column 2)

# YOUR DISKETTES COST TOO MUCH

By Tom Van Flandern - Reprinted from  
WASHINGTON APPLE PI, JUNE 1982

Is the price of blank diskettes a constant drain on your budget? Read on, you'll be glad you did. Discussions on the subject of diskettes usually result in the propagation of "DISK MYTHS", or statements about diskettes which have three attributes: 1) They originate from diskette manufacturers or dealers, not users! 2) They are all reasons why you should pay more for your diskettes! and 3) They are untrue. Let us consider the most common of these myths.

**THE ONE-SIDED MYTH.** You have probably been exposed to the controversy over using one or both sides of your "single-sided" diskettes. I have often heard the myth repeated that the manufacturers put their label on whichever side of a diskette that first passes their surface quality tests. By implication, the other side may have failed such a test and therefore may be expected to be of inferior quality. Sounds plausible, doesn't it? Cute manufacturing costs, and why certify both sides when only one is usable as the disk is sold? There is just one problem with the theory - the box of diskettes doesn't know what type of computer or drive it is headed for use on. Did you know that Apple disk drives always write on the bottom side of your diskettes? In fact, there is no standard among computers. Some have single-sided disk drives which write on one side, some use the other side. Manufacturers are therefore obliged to certify both sides of diskettes with equal care.

**THE TWO-SIDED MYTH.** What keeps you from turning your diskettes over and using the magnetic surface on the other side? There is a small, rectangular notch along one edge, centered at 1-5/16 inches from the top edge of your 5-1/4 inch floppy diskettes. This notch permits your disk drive to sense that it is okay to write on the disk. If you cover this notch, the disk is write-protected. To make the other side useable, just punch a similar hole along the opposite edge at the same distance from the top. Turn the diskette over, insert it into the drive, and use in the normal way. The shape of the notch is not important - circular or rectangular are equally good - but it must be at the correct location, about 1/4 inch wide and not quite as deep. Use an ordinary hole punch for good results. To get the location correct, just turn over another diskette and line it up with the one to be punched. Don't be concerned if you get the hole slightly too large. Your chances of damaging the diskette are small with ordinary care and are less from making too large a hole than from using too crude a cutting instrument, causing the diskette to be pinched inside its cardboard jacket. The disk myth in this connection is that you risk losing data on the original side of the disk if you write on the other side in a one-sided disk drive. The reason cited is that magnetic particles will accumulate on the pressure pad which presses against the side opposite the read/write head, and these can destroy information on the side they come in contact with. The principal argument against this theory is empirical - it just doesn't happen, at least not over a period as short as a few years of ordinary usage. (See caution below under "The Cleaning Kit Myth" however.) The failure rate for diskettes used one-sided and two-sided is statistically indistinguishable, resulting in an interesting correlation. The probability of a microcomputer owner using his diskettes two-sided is directly proportional to his experience. Almost all users eventually try this, and the best proof of its effectiveness is that they stay with it. The most experienced Apple owners, with the largest files, almost all use their diskettes two-sided, and sell knowingly to the novices who are reticent because "if it were that simple, the manufacturers would tell you so".

**THE DOUBLE DENSITY MYTH.** This disk myth is insidious because the manufacturers allow the consumers to fool themselves and simply fail to provide them with information needed to correct the myth. Double density diskettes cost more because they have a thicker magnetic coating, so they must surely be better, right? Why not keep your really important files on double-density diskettes? Now to you, naive and trusting user. The purpose of the double-density diskettes is to support disk drives capable of generating a stronger magnetic signal than Apple disk drives operate. More importantly, though, since the signal generated by Apple drives is not strong enough for double-density diskettes. You actually have a slightly higher risk of losing those valuable files if you wrote them on a double-density diskette!

**THE HUB RING MYTH.** Some diskettes come with hub rings, and this too is supposed to be worth paying extra for. Hub rings are circular bands on the inner edge of your diskette which provide extra strength to that edge. Their main function is to keep the inner edge from getting crunched if the diskette is severely off center when the lid is closed, after the diskette is inserted into the drive. With just a minimum of care, however, the lid can be closed slowly and lifted and closed again if it meets resistance, so as not to damage the diskette.

Another recommended practice is to boot your disk (PR#) and start it spinning before you lower the door lid. This not only aids self-centering, but also prevents the read/write head from pressing against the disk surface as it retracts for recalibration (the clackety noise you hear). In other words, ordinary good disk handling practice (which even children can be expected to follow) will allow the diskette a chance to self-center and prevent damage. The problem caused by the hub rings is that, if the diskette has any tendency to bind in its jacket, preventing it from gaining full rotation speed, it is easier for it to slip with hub rings than without. If you ever try a disk speed test and occasionally see some measures go off scale, this is usually from binding up and may be exacerbated by hub rings.

**THE NAME BRAND MYTH.** Occasionally a brand of diskettes in its entirety of a particular batch of diskettes from some well known manufacturer, will be flawed and produce such user grief. However, there is a lot of incentive for manufacturers who want to stay in business to prevent this from happening and most are successful. Once the disks pass the surface certification tests, if they are properly shipped and handled, they are all essentially equally good, regardless of name brand, or claims to the contrary. Almost all diskette failure is due to handling problems (see below). Failure rates of factory-shipped diskettes are about 12 per 1000, on average, with little variation between brands, and no correlation with price. The myth here is that paying more for a brand name buys a tangible benefit. In fact, many generic brand diskettes are available, often made by the same big-name manufacturers but without the name-brand label, for much less cost than the identical diskette with the label pasted on it. Is the label really worth that much extra cost to you? There is also the question of whether a manufacturer will stand behind its guarantee. Apple Avocation Alliance recently reported that Verbatim refused to honor its diskette guarantee and criticized the Apple organization for selling Verbatim's product "too cheaply".

**THE CLEANING KIT MYTH.** "Buy a cleaning kit for your disk drive. Clean the read/write heads at least once a week." Before I knew any better, I bought just such a head cleaning kit. At the same time, I wandered at the "important notice to purchaser" in small print on the box, which I quote in part: "Neither seller nor manufacturer shall be liable for any injury, loss, or damage arising out of use of the product. Before using, user shall determine the suitability of the product for his intended use, and user assumes all risk and liability whatsoever in connection therewith." I assumed, as most people must, that this was just legal mumbo-jumbo to protect the manufacturer from frivolous lawsuits by incompetent users. After all, the product was being widely sold for the purpose of cleaning disk drive heads, and that was surely a desirable end. Wrong again! I began to have one diskette failure after another and it was several months before I realized the correlation with use of the head cleaner. The sad truth is that the cleaning fluid used with the kit is a strong solvent. The recommended method of application results in the pressure pad getting soaked with solvent. If you then use a diskette in the drive, the magnetic surface on the other side of the diskette is scoured by the solvent and actually dissolved in the process! The damage can be so extensive that it may no longer be possible to initialize the damaged surface. Of course, if I had not been using my diskettes two-sided, I might not have discovered the problem. But I now know that, in truth, head cleaning usually needs to be done in intervals of one to four years, not weeks, and is easily done with isopropyl alcohol applied directly to the head, without damage to either pressure pad or diskettes.

**PROPER CARE AND HANDLING.** Most diskette failure is caused by improper care and handling, rather than anything under the control of the manufacturer. Of course, diskettes must be kept away from magnetic fields, such as emitted by some TVs and certain other electronic devices. They must be kept clean and dry. And the importance of never writing on a diskette (even with an object which can apply pressure to the magnetic surface below) cannot be over-emphasized.

**PERHAPS THE SINGLE MOST COMMON CAUSE OF RANDOM DISKETTE FAILURE NOT CAUSED BY DISK DRIVES IS THE BINDING IN THE CARDBOARD JACKETS.** This is why you are advised to store diskettes vertically and avoid the temptation to stack them horizontally. Anything which applies pressure to the jacket (including crowded storage of diskettes, horizontally or vertically) can cause binding, which prevents the diskette from spinning at full speed continuously while in use, which causes intermittent failures.

I hope the preceding information proves useful to you and saves you money as well as headaches with your diskettes.

I HAVE SEEN GOD AND HE IS WOZ  
by Alan T. McDonald  
from T.A.R.T., Vol. 2, page 8

The alarm went off at 4 AM, almost three hours earlier than on a normal day. But this was no normal day. I was going to see God. The Creator. The Woz.

Having called Washington Apple Pi earlier in the week, I knew that there would be a standing room only crowd. Admission was first come, first served. I was not going to miss my chance. The plan was simple; out the door by 4:30, in line by 6:45.

When I arrived, the Departmental Auditorium was vacant. Had I miscalculated? Was I sold a bill of goods? Would the place be less than filled? Had I wasted two hours sleep for nothing?

Not really. Being an outsider, I did not know the format of the monthly WAP meeting. First, an 8:30 meeting means a 9:15 start. The first hour was devoted to a question and answer session, mostly of the "How do I get this ABC program to work with my XYZ hardware?" They did, however have three well-qualified moderators, including The Apple Doctor of Call A.P.P.L.E. fame.

Finally, at 10:15, before a now-filled auditorium of over 2000, He spoke. First, we were shown the same hype audio-visual display put on at the Apple stockholder's meeting and the 1984 commercial. Then Woz took over. The major highlights of his speech were:

- He was still in charge of the Apple II-II group.
- There will be new Apple II machines and peripherals.
- Expect a portable Apple soon.
- Look for a scaled-down II with "the most popular features".
- The II is still Apple's K-12 educational machine.
- Sales remain strong, with December sales hot.
- Apple II and III machines will be USABLE in Applebus with an internal board.
- The mouse and ProDos are out for the II.
- Expect some Mac software to be moved to the II eventually.

Woz then introduced Burrell Smith, ex-lab technician turned wizard and creator of the Macintosh motherboard. Between Smith's talk and a question and answer session limited strictly to hardware, the following was deduced:

- There is no language internal to the Mac.
- The 128K system will be upgraded to 512K as soon as 256K chips are readily available and cheap enough. Current owners will be able to (for a price) trade in their 128K mother boards for 512K boards when they are ready.
- There are no slots on the motherboard, however Apple feels that someone will find a way to add peripherals, either to the motherboard, or through one of the ports.
- The ports are mouse, 2nd drive, RS-232, RS-422 and 4-channel sound. There is no parallel port.
- There is no reset key on the machine, but there is one in the box that can be put on the left side of the unit, if desired.

The keyboard has no numeric pad or function keys, to make it small and force use of the mouse. A numerical pad is optional.

The monitor is 9", but they expect to make available a plug to one of the serial ports for an external monitor.

No color is available, and they do not intend to change this in the future. "It takes four times the memory."

The 3 1/2" sony disk drive is now single-sided, 400K. Look for a double-sided 800K drive soon.

The Imagewriter printer will do about 140cps.

After a ten minute break, the software gurus went at it. Using an \$80,000 projector, the only one of its kind in the U.S., the 9" Mac graphics were displayed at 25 ft. diagonal. With Bill Atkinson using his MacPaint and the author of MacWrite putting it through its paces, along with the MacDemo from the stockholder's meeting, we were in awe. Screen after screen of incredible resolution. One task after another made so simple that a novice could turn out professional work the first time. Some highlights:

- MacWrite has over 150 possible typefaces, using one of seven tpestyles, five font sizes and five "goodies" at one time.
- MacPaint has 32 standard fill modes that provides the instant menus and window interface.
- Every Mac program uses a ROM-based core that provides the middle of a program. To remove a disk you must press the "remove disk" key. Before Mac allows the disk to exit, it closes all files and brings down the current program.

Finally, the third Q & A session, this one on software. More news:

- Macrosoft and Apple will have Basics available this spring. There are no plans for a Basic compiler.
- "Instant Pascal" will not require a compiler. It will be compiled and interpreted on the fly.
- Apple is pricing its Mac software REAL CHEAP and is encouraging all other vendors to do likewise. They want no applications programs to be over \$100. "If they won't sell the software at a reasonable price, we will!" For example, Multiplan will be \$99.
- There is a hardware copy protection mechanism, but it can be overcome.
- Look for a MacLocksmith. "It will be the Apple II all over again."
- Forth, Logo, and C all expected.
- Over 100 software houses are rewriting their programs for the Mac.
- Apple does not expect a lot of educational software on the Mac.

As the meeting drew to a close at 2 PM, almost five hours after it began, I still wanted more. In the end, I got my wish. I now have a Woz-autographed edition of the Apple II Reference Manual.

TIDEWATER APPLE WORMS MINUTES  
APRIL 14, 1984 MEETING

6

The April 14 meeting of the Tidewater Apple Worms was called to order at 2:17 P.M. by club board of directors chairman Dave Scholefield. Club president Nick VanValkenburgh was not able to attend the meeting because he was out of town. The minutes of the March 24 meeting were accepted as read by club secretary Robert Cruse. The treasurer's report was accepted as read by club treasurer Bruce Dewing.

Dave reported that the club's board of directors was still investigating relocating the business meetings to a site off the amphibious base. The board is expecting a report on alternative meeting places from Pete Cyr and Cecil Wood after the business meeting.

The strategic simulations special interest group planned to demonstrate Tactical Armor command after the business meeting. The Business applications group planned to discuss Visicalc at their meeting in Memory Bank's learning center Monday April 16. The Logo group planned to meet at Memory Bank Monday April 23. Jerry Rowe announced plans to discuss peeks, pokes, and fundamental Applesoft programming at the Green Apples new user group after the business meeting.

The club's rental library had an excess Lady Tut software package which the club wanted to convert into funds for the purchase of other packages. In an informal vote the club decided to hold an auction for the package using a procedure where the auctioneer starts by offering the package at the suggested retail price and lowers his price until a club member makes the club an offer. The package was sold for \$8.50.

Jerry Rowe reminded the club about the Virginia Computer Show at Pavilion May 3 - 6. Jerry also announced that Home Computer Magazine had decided to start providing coverage to Apple computers and several other brands when Texas Instruments announced their plans to discontinue production of their model 99/4 personal computer. He announced that the magazine had provided the club with several dozen complementary copies of their magazine in order to introduce the club's members to it. The magazines were distributed to the members attending the meeting without charge. Jerry also announced that the club had received International Apple Core disks of the month numbers 33 and 34. He announced that number 33 had programs from the Dayton Ohio user group and that number 34 was a disk containing files in both D.O.S. 3.3 and CP/M recording formats. Copies will be available through the club's public domain software library.

Bill Holmes announced that Imagination Software, which is located in the Fairfield Shopping Center at the intersection of Kempville and Providence Roads, has offered the club's members a twelve percent discount off the suggested retail price of their merchandise if the club would provide the store with a club membership list. In an informal vote the club decided to accept Imagination Software's offer.

Two members expressed interest in obtaining an Applied Engineering Z-80 card at a discount price through the club. The club will need to have orders from more club members who

want cards from that manufacturer to make discount prices available. Members who want Applied Engineering cards were advised to contact Ed Schwabb, who would collect orders until a sufficient number of orders were made.

The meeting was adjourned at 3:00 P.M.

Tidewater Apple Worms Minutes  
April 28, 1984 Meeting  
(Subject to approval at the May 12 meeting)

The April 28, 1984 meeting of the Tidewater Apple Worms was called to order at 2:10 P.M. by club president Nick Van Valkenburgh. The minutes of the April 14 meeting were accepted as read by club secretary Robert Cruse. The treasurer's report was accepted as read by club treasurer Bruce Dewing. Bruce reported that the club had single and double density Wabash diskettes, Disk tiers, keyboard covers, diskette storage boxes, game port extenders, and club tee shirts available under the club's discount purchase program. Bruce reported that pages for storing diskettes in notebooks were temporarily out of stock. Hal Hall announced that when he had made a purchase at Imagination Software that he had been told that the club discount at that store only applied to software.

The club had an extended discussion about Apple Computer's new model //c. The machine is a Apple //e compatible unit with an external power supply and a processor/keyboard unit about the size of a three ring binder. While the unit does not have any expansion slots, it does have a single disk drive, two serial ports, an RGB video connector, an external disk drive connector, and a connector for an Apple Mouse within the small systems cabinet. The computer contains 128K random access memory and the equivalent of the //e 80 column card. Nick announced that he hoped to be able to bring an Apple //c and an Apple mouse to the next meeting for a demonstration of the computer, the mouse, and Apple // Mousepaint.

The club also discussed price reductions in the Apple //e and associated //e system bundles and the price of the Profile disk system for the Apple //e and //t systems. Mention was also made about the Corvis hard disk systems and other hard disk units for the Apple // series of computers.

Ed Schwabb announced that five persons had agreed to purchase cards made by Applied Engineer in he planned to determine the exact price on the cards and get the checks at the next meeting. Ed said that if any additional persons wanted Applied Engineering cards they should contact him at or before the next meeting.

Ed Dean announced plans to cover Word processors in the business applications special interest group during May. David Scholefield announced plans to demonstrate repairs to an Apple // power supply after the first May meeting.

Club librarian John Burback asked for members to inform him of any manufacturer updates on software in the club's rental software library. He listed several programs which the library had already updated. He announced that the rental libraries new library card system was speeding use of the rental library.

The club briefly discussed plans for staffing the booth at the computer show at Pavilion May 3 - 6. Bill Holmes (cont. on page 7, second column)

T.A.W. MEMBERSHIP RENEWAL LIST

This is a list of the people whose membership is up for renewal. Everyone who has not renewed their membership by the end of their renewal month, will have to be dropped from the rolls. Please check all information at the time of your renewal to be certain it is accurate and up to date. The \$12.00 membership fee can be paid to the treasurer at any meeting or sent to him as follows:

Bruce Dewing  
4124 Duke Drive  
Portsmouth, Va. 23703

MAY

- Beliveau, Wendel & Sally: 5321 Westover Lain, V.B. 23464 (424-4220)
- Brock, Dave & Jane: 1228 Lynnhaven Parkway, V.B. 23456 (468-1025)
- Claiborne, Carl: 920 Poughkeepsie Court, V.B. 23451 (422-4056)
- Colley, Donald: P.O.Box 6328, Cheas. 23323 (485-2394)
- Diener, Jeff: 218 Sir Oliver Road, Norfolk 23505 (423-3741)
- Freed, William L.: 6444 Baznard Way, V.B. 23464 (420-6501)
- Gabriel, David N.: 1507 Warbler Court, Cheas. 23322 (421-7693)
- George, Johnny: 521 Mossycup Drive, V.B. 23462 (499-2083)
- Lester Jr., Allen & Cheryl: 4636 Mallard Cres., Ports. 23703 (484-7966)
- Lyon, Dave & Janice: 613 Pinetree, V.B. 23452 (340-1558)
- Phillips, Larry: 614 Boissevaine, Norfolk 23507 (622-1560)
- Prunier, Jeff: 1317 Frank Street, Norfolk 23518 (588-5342)
- Slobe, Alan & Pamela: 4 Creekside Place, Hampton 23669 (1-850-2524)
- Tuttle, Larry: 1767 Dominion Avenue, Norfolk 23518 (587-5585)

JUNE

- Alder, Dan & Bonnie: 5024 Meadow Pines Place, V.B. 23464 (495-0214)
- Alexander, Sam: 7000 Auburn Avenue, Apt. 101, Norfolk 23513 (444-8281)
- Bauserman, Jane: 1217 Richmond Crescent, Norfolk 23508 (489-0784)
- Bockelmann, P.E.: 5004 Waterfrod Place, V.B. 23464 (467-0877)
- Brothers, Charles: 1449 Partlet Court, V.B. 23451 (422-6719)
- Crandall, Allen: 4032 Forrest Hills Drive, Portsmouth 23703 (484-3480)
- Grunwald, Stephan: 9426 Grandby Street, Norfolk 23503 (587-1632)
- Guarnieri, Stuart: 4425 Monmouth Cas. Road, V.B. 23455 (464-3385)
- Hackett, James: USS Fort Snelling, LSD Task 30, FP0 N.Y. 09569
- Harmon, Jack: 911 Ithica Court, V.B. 23451 (425-1068)
- Ivers, Jesse: 4040 Lake Ridge Circle, V.B. 23452 (340-1206)
- Keil, Charlie: 3105 Newburn Lain, V.B. 23451 (481-7746)

(June renewals cont.)

- Krehely, Don: 5216 Foxboro Lndng, V.B. 23464 (495-1076)
- Lee, James M.: 2524 Olympic Court, V.B. 23456 (468-1117)
- Nichael, Robert: 5177 Foxboro Landing, V.B. 23464 (495-0161)
- Stewart, Mark: 925 Hanover Drive, V.B. 23464 (495-3723)
- Wendel, Lennart: 2253 Tanglewood Tr., V.B. 23454 (481-4017)

(April 28 Minutes cont.)

said that he and Jerry Rowe were going to be spending time in the booth on the third and fourth.

Pat DeVinney was praised for her work on the club newsletter on the suggestion of a member at the meeting.

After a brief question and answer session the meeting was adjourned at 3:05 P.M.

(Q & A cont. from page 3)

```
110 PRINT CHR$(4)*PR#1*
120 REM SET PRINTER TO 8 LINES/INCH HERE
130 FOR X = 0 TO 39
140 FOR Y = 0 TO 39
150 C$ = MID$(SY$, SCRN(X,Y) + 1,1)
160 PRINT C$;C$;
170 NEXT X: PRINT
180 NEXT Y
190 PRINT CHR$(4)*PR#0*
200 END
```

(ED NOTE: WATCH YOUR LANGUAGE IN LINE 100 OF THAT LAST LISTING!)

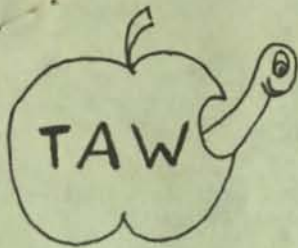
UNDERLINING HINT FOR MAGIC WINDOW II  
by Pat DeVinney

When a printer driver is not available for Magic Window II, use the CTRL-B sequence to execute the special printer control funtions. For the Prowriter the sequences are as follows:

TYPE	OPERATION	COMMAND
CTRL-B,ESC,ESC,X *text*	start underlining	ESC-X
CTRL-B,ESC,ESC,Y	stop underlining	ESC-Y

The purpose of the second ESCape is to capitalize the X or the Y. The printer doesn't recognize the lower case letters as printer commands. (I don't use an 80 column card so I don't know if that makes a difference.) Please remember, although the CTRL-B printer sequences appear on the screen, they do not take up any space on the printed page. Count margins as though neither the print sequence nor the spaces they occupy are present in the text. Hense, "the [Xtext]Y" appears as "the text". When underlining a word or phrase which continues on more than one line, stop underlining at the end of the first line with the ESC-X command and begin again on the next line with the ESC-Y command or else the underlining will continue across the blank spaces of the left margin.





# Worm Words

AUGUST 1984

Vol. 2, No. 8

This is the official publication of the Tidewater Apple Worms and is dedicated "hole-ly" to their wishes. Meetings are held the second Saturday of the month at the Naval Amphibious School Building, Naval Amphibious Base, Little Creek, Va. The general business meeting is at 2:00 PM and the Special Interest Group (SIG) meeting is at 3:15 PM.

### Club Officers

Pres: Nick VanValkenburgh      Vice Pres: Patti Terry  
Secretary: Robert Cruse      Treasurer: Bruce Dewing

### Board of Directors

David Scholefield (Chairman), Pete Cyr, Pat DeVinney,  
Harold Henderson, Bill Holmes, Ed Schwab, Donna Wilson

### SUBMISSIONS

All articles, letters and ideas can be submitted on disk (Applewriter, Applewriter II, Screenwriter II, Easywriter, or text files), on paper, or by telephone (voice or modem) to :

Pat DeVinney  
Worm Words Editor  
2261 Indian River Road  
Virginia Beach, Virginia 23456  
Phone: 721-3056

### AD RATES

All ads must be received by the editor by the 20th of the month to run the following month. The rates for camera ready ads are:

Full page - \$36.00  
Half page - \$18.00  
Third of a page - \$12.00  
Quarter page - \$9.00

Club 24 Hour Bulletin Board Number 543-7194

*U-Finish 117.5  
Witchhacker 10% discount*

*"MICRO ENHANCEMENTS"  
cheap disks - comm'l*

FORWARD OR RETURN TO:  
WORM WORDS EDITOR  
P.O. Box 68398  
VIRGINIA BEACH, VA. 23455-9364

MICHAEL FISCHBEIN  
PAID 1984  
3967-301 MARINA LAKE RD.  
VA BEACH VA. 23452

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## EDITORIAL COLUMN

I hope everyone has been having an enjoyable summer. Now we have a few things to do. Nothing too strenuous. I realize it is still summer for another month. But we have to start now if we want to be ready to begin the SIGs for fall, plan the tutorials and line up the workers to get everything done. I've included a survey of wants and wishes for each member to fill out and return. We had less than a third of the members return the surveys last year. I can't stress how strongly we need this input to know what the club members want and need as well as needing the volunteers to get the work done. The membership has dropped from 270 to 220 so one of the things we will need is a membership committee to find out why we don't have as many members and to spearhead a membership drive. A Hotline was suggested last meeting but that takes willing people. How about you? How can you help the club? The survey awaits!

#####

SYNOPSIS OF TAM MEETING  
JULY 14, 1984

With President VanVaulkenburgh presiding the minutes were accepted as read. The treasurer was absent and no report was provided. The library report in on page two.

The generic disks have arrived and will sell at the following prices which include tax:

10 disks for \$11.50

25 disks for \$28.00

The club membership has dropped from 270 to 220 in the passed six months. A suggestion was made to call to remind members before their membership lapses.

It was reported that Apple Text Support now has a bulletin board.

A Smart Modem and seven software programs were auctioned at the club meeting.

John Crow, the owner of The Memory Bank, was the guest speaker (see John Crow visits TAM).

## TAM ANNOUNCEMENTS

TAM has a Post Office Box in the Haygood Substation. All correspondence for the club can now be sent to :

Tidewater Apple Worms  
P.O. Box 68398  
Virginia Beach, VA 23455-9364

If any club members are receiving mail addressed to the Tidewater Apple Worms at their home or business because of a previous position held in the club, please notify the secretary, Robert Cruse, so that he can submit a change of address.

Please remember that starting in September we will return to two business meetings per month. The dates of the September meetings are Sept. 8 & Sept. 22.

The Board of Directors is still taking suggestions for alternate meeting sites. Although the restrictions for getting on the base seem to have eased enough to no longer be causing any major difficulties for anyone coming to club meetings, the Board would like to be prepared in the event a move becomes necessary. If anyone encounters any difficulties in getting on the base to attend club meetings, please contact either a club officer or one of the board members.

## SIG REPORT

GREEN APPLES - Held after the regular business meeting.

For more information call Jerry Rowe (625-0133).

BUSINESS and LOGO - Word processing and telecommunications are two subjects being considered for the classes to begin in September. Sign up for these or suggest another subject of your choice. For more information call Ed Dean (481-0275).

PROFESSIONAL EDUCATION - Meeting once a month. Open to all elementary and secondary teachers and administrators. Topics for discussion will cover using the computer to assist instruction in the classroom. For more information call Anna Henderson (627-3885).

GAMES/SIMULATIONS - Held after the business meeting. Come and enjoy the demonstration and hands on action. For more information call Harold Henderson (340-6189).

MAINTENANCE AND HARDWARE - Held after the regular business Demonstration and tutorial by Dennis MacDonald (422-9810).

NEWSLETTER - Meeting at least once a month to study word processing, graphics, printing, modems and Basic programming as they apply to publishing the newsletter. Open to all ages. For more information call Pat DeVinney (721-3056).

MACINTOSH - A SIG for Macintosh enthusiasts is now forming. There is a lot of information available from other Apple clubs about Mac and Mac software. Don't pass up this opportunity to learn from the experience of others. If interested, contact Pat DeVinney (721-3056).

TAW SOFTWARE LIBRARIES  
by Dwight Southern

JOHN CROW VISITS TAW  
by Pat DeVinney

July was a very good month for the TAW Rental Library. More than 60 programs were rented at the July 14 meeting which is a record for a single meeting. July also saw the beginning of the updating process of the library with the auctioning of 8 old and little used programs to raise money for newer programs. The Rental Library continued its strong growth pattern of the last several months with the addition of 11 programs including two donated programs; Visicalc, the original spreadsheet program, and Home Accountant, a home or small business accounting program. APPLE MECHANIC, a Beagle Brothers HI-RES shape and type font editor, is a recent addition. Next come 4 new SSI simulations RAILS WEST, 50 MISSION CRUSH, COMPUTER AIR COMMAND 1.1 and OBJECTIVE KURSK. Also added were MURDER BY THE DOZEN, a series of twelve murder mysteries for would-be detectives to solve and EXPEDITION AMAZON, a HI-RES adventure game. Rounding out July's new additions were TEACHER CREATE MULTIPLE CHOICE and TEACHER CREATE COMPLETION, two programs designed to create tests of the specified type from a list supplied by the teacher.

In addition to the new programs in the Rental Library the clubs Public Domain Library is steadily growing. For example during the last several months the following PDS volumes have been received from the International Apple Core. The Best of Apple, IAC #33, an assortment of programs from the Dayton Users Group; CP/M Hybrid, IAC #34, a series of CP/M utilities including a CP/M to DOS 3.3 conversion program; Build a Program, IAC #35, a BASIC programming tutorial; IAC #36, a collection of arcade games; and IAC #37, a series of spreadsheet templates for VISICALC. Forty new volumes of CP/M software from various other sources were also added to the PDS Library in July.

The new TAW Periodicals Library is slowly beginning to take form. So far over 60 issues of various magazines such as SOFTALK, CREATIVE COMPUTING, ON COMPUTING, INFOWORLD, NIBBLE, and COMPUTE have been donated. These issues are available for the use of all Tidewater Apple Worms at no cost. All that is asked is that they be returned as soon as you have finished with them so that others may also make use of them. If you are looking for a particular issue or are looking to clear out some old issues, talk to one of the people working with the software libraries at a meeting or contact Dwight Southern at 463-1628.

The Virginia Beach Public Library System also maintains a collection of computer periodicals. These include BYTE, COMPUTE, COMPUTERS & ELECTRONICS, COMPUTER EQUIPMENT REVIEW, DESK TOP COMPUTING, INFOWORLD, and KILOBAUD. These magazines can only be used in the library and not all of the magazines are at a single branch, however by checking in the library index in any branch under the subject heading of COMPUTERS you can determine which issues are available and in which branch they are located.

For more information concerning any of the Tidewater Apple Worms library services contact the club's librarian John Burbach at 497-6158.

John Crow, the owner of Memory Bank, enlivened the TAW meeting with a discussion of the advances in Apple computers.

According to John, with the new advent of the IIc, Apple has shown their commitment to the Apple II line of computers. Although the IIc at \$995 is big in demand, it is in short supply because production was cut back to produce more IIc's. The IIc's and Mac's, however, are in plentiful supply and the new plasma display should be available soon for about \$690. Apple is introducing an RGB color monitor with an Apple RGB board for about \$750 total price. Memory Bank sells 75% of its Apples for education but many businesses are buying Apples also.

John said that his computer business grew out of the frustration of trying to purchase an Apple and "no one would take my money". Since the business of selling computers seemed to be so good that they could turn away customers, John decided to open a computer store of his own "to provide service to those who wanted to buy a computer".

As a rule John prefers not to discount his products because he can't afford to provide technical support for the products he sells at discount prices but, because some people don't need as much support, he sells three ways.

1. Preferred Customer - An individual pays full price and gets training, software and hardware support, repair service, a loaner when needed, and a subscription to SoftTalk. 95% are sold this way.

2. Discount Program - An individual buys at the lowest possible price but all support and service is paid for as needed.

3. TAW Discount Program - A club member is designated to verify that the individual is a club member and to call to set up an appointment with the sales manager. The individual then keeps the appointment and makes his own deal. The club assumes responsibility for technical support.

John accepted the invitation to speak at the meeting because he was concerned about the rift which had developed between hobbyists and Apple dealers. A meeting with the top 15 Apple dealers across the nation convinced him it was not a local problem but still had to be settled on a local level. The original trouble between Memory Bank and TAW came about because some members of the club "bad mouthed" Memory Bank. John hopes that time has healed the wounds and that our association can be mutually beneficial. John reminded members that the Memory Bank's classrooms are available for any classes we wish to hold there.

ADDENDUM August 6: John would like any Mac owners who purchased their machine through Memory Bank, to know that they can expect an invitation to a cocktail party for Mac owners in the mail soon.

"MENU" PLEASE!  
by Lee Swoboda  
KITSAP Apple Users Group  
Feb. 1983

Just as there are a zillion "HELLO" programs, there are also a zillion "MENUS". The following listing is for a "bar" menu which is both pretty and idiot proof.

```

10 REM 'CCCCCCCC'
20 REM
30 REM BAR MENU
40 REM
50 REM 'CCCCCCCC'
60 REM
70 REM BY LEE SWOBODA
80 REM
90 REM
100 HOME
110 INVERSE:PRINT '      KITSAP APPLE USER'S GROUP      '
120 FOR CV = 1 TO 4
130 PRINT ' *';HTAB 39: PRINT ' * '
140 NEXT CV
150 PRINT '
160 NORMAL
170 VTAB 3: HTAB 17: PRINT "SAMPLE"
180 HTAB 18: PRINT "MENU"
190 FOR I = 1 TO 10
200 READ A$(I)
210 NEXT I
220 REM ** PRINT MENU **
230 CV = 9
240 VTAB 9: CALL -958
250 VTAB 23: PRINT "ARROWS MOVE CURSOR..."; INVERSE: PRINT
    "RETURN"; NORMAL: PRINT "SELECTS"
260 FOR I = 1 TO 10
270 IF CV = 8 = I THEN INVERSE
280 VTAB I + 8: HTAB 9: PRINT A$(I)
290 NORMAL
300 NEXT I
310 REM ** POSITION CURSOR **
320 POKE -16368,0
330 K = PEEK (-16384)
340 IF K = 136 GOTO 380
350 IF K = 149 GOTO 470
360 IF K = 141 GOTO 580
370 GOTO 330
380 REM ** CURSOR UP **
390 CV = CV - 1
400 IF CV < 9 THEN CV = 18
410 POKE -16360,0
420 VTAB CV: HTAB 9: INVERSE: PRINT A$(CV - 8): NORMAL
430 IF CV = 18 THEN CV = 8
440 VTAB CV + 1: HTAB 9: PRINT A$(CV - 7)
450 IF CV = 8 THEN CV = 18
460 NORMAL: GOTO 330
470 REM ** CURSOR DOWN **
480 CV = CV + 1

```

```

490 IF CV > 18 GOTO 540
500 POKE -16368,0
510 VTAB CV - 1: HTAB 9: PRINT A$(CV - 9)
520 VTAB CV: HTAB 9: INVERSE: PRINT A$(CV - 8)
530 NORMAL: GOTO 330
540 VTAB 18: HTAB 9: PRINT A$(10)
550 VTAB 9: HTAB 9: INVERSE: PRINT A$(1): NORMAL
560 CV = 8
570 GOTO 330
580 REM ** SELECT FUNCTION **
590 CALL -198
600 POKE -16368,0
610 CV = CV - 8
620 ON CV GOTO 1000,2000,3000,4000,5000,6000,7000,
    8000,10000,9000
630 DATA * BEGIN A NEW FILE *
640 DATA * ADD TO END OF TEXT *
650 DATA * CHANGE STRING *
660 DATA * DELETE LINE(S) *
670 DATA * FILER COMMANDS *
680 DATA * INSERT BEFORE LINE *
690 DATA * LIST LINE(S) *
700 DATA * REPLACE LINE *
710 DATA * PRINT LINE(S) *
720 DATA * QUIT - LEAVE EDITOR *

```

QUESTION AND ANSWER  
by Bruce F. Field  
Washington Apple Pi, May 1983

- Q. I recently purchased a game that boots in two stages. During the first stage, it's just like any other disk. In the second stage, however, there are terrible loud clicks and clacks—it sounds like the disk drive is choking to death! After ten seconds of this heart stopping noise, the game is always ready to go. Do you think that this disk could be harmful to my disk drive?
- A. No, the program is not damaging your disk drive in any way. What is probably happening is that the disk drive head is being recalibrated, that is, it is moved to track zero. The head is guided by the patten with a spiral grove in it. The only way that Apple knows where the head is, is to read some information off the disk which contains the track number, or move the head out at least 35 tracks which will ensure that the head is at track zero. When the head reaches track zero and the platter continues to turn, the head ratchets against the end of the spiral in the platter causing that anguishing sound, but no damage. It's possible that the copy potecting scheme used is causing your drive to have trouble reading the disk and is performing multiple head calibrations.
- Q. I would like to be able to have disk drive 2 active after booting up in drive 1. Is there some way I can modify DOS to do this?

(Cont. page 5, column 1)

APPLE MAINTENANCE  
by Peter E. Rosden  
WASHINGTON APPLE PI, July 1984

Recently I spent an inordinate amount of time trying to understand why a Hays Smartmodem esed with an Apple Serial Card caused my monitor screen to go haywire whenever the modem was turned on. However, the same modem and card worked perfectly in a nieghbor's Apple II! Just before I gave up and was going to request that Hayse send me a new modem thinking the problem had to do with the voltage variations, I decided to thoroughly clean my Apple II+. I had had this computer for almost 3 1?2 years and had never really cleaned it, a situation which I think is more widespread than most of us care to admit. In a nutshell, after cleaning, the modem worked perfectly.

What this article is meant to do is tell you how to give your computer a cursory cleaning. The "tools" you need are:

1. your thumb
2. thin cardboard (slightly thicker than the width of the slot)
3. a bottle of grain alcohol purchased from your local liquor store
4. cotton swabs
5. a vacuum cleaner, hopefully with a brush attachment

The steps to take (after unplugging your Apple) are:

1. Remove the top of your Apple II+. The cover snaps off, so don't be afraid to pull.
2. Remove all cards from all slots and place them sequentially on a piece of clean printer paper so you don't forget which one goes in which slot.
3. Set your vacuum cleaner to dust and using a brush attachment vacuum the inside of the Apple running the brush over all reachable areas. Then vacuum each card separately.
4. Using your thumb, press down firmly (until the motherboard bows downward, don't break it though) on every chip you can see and reach both in the Apple and on each card. In a number of cases you will feel the chip move downward, perhaps as much as 1/8 of an inch, and snap. Over time, heat and use, can cause the chips to work their way up this much. In theory, you should realy remove the motherboard from inside the Apple to do this properly since you just can't vacuum everywhere or press every chip otherwise, but this may create other problems. So, unless you are mechanically inclined, don't bother.
5. If your Apple has a "System Saver" or other fan, remove the fan and clean off the gunk and dust from the fan blades and any filter. You'll be surprised how dirty the fan has gotten.
6. Take the piece of thin cardboard and cut it rectangularly with the short side very slightly less than one Apple slot. Make the long side about eight inches so you can hold it comfortably.

7. Take a piece of thin printer paper and cut it so that it is the same width but about an inch less than twice the length of the piece of the cardboard piece. Fold the paper around the cardboard so thst it approximately covers all of the cardboard, leaving a half inch of bare space on opposing sides of the cardboard at the end. Tape the paper in place and put the "instrument" on a clean surface.
8. Dip a cotton swab into some grain alcohol, pick up the "intrument" by the bare end, then rub the swab over the completely covered end of the cardboard so as to transfer the alcohol to the paper.
9. Holding the "intrument" by the bare end, force the grain alcohol impregnated end into each slot of your Apple and move it up and down several times. You may wish to change papers or clean the paper with maore alcohol if your slots are inordinately dirty.
10. Dip a new cotton swab into the grain alcohol and, being careful not to touch the gold contacts with your fingers (you would transfer oil or dirt onto them), rub each contact area on each card with the cotton swab to clean the contacts.
11. After waiting a while to allow the alcohol to evaporate (a few minutes at most), reassemble your Apple and see if the minor proplems you have been experiencing have disappeared. Save the cardboard piece to use next time and hide the grain alcohol from any imbibers in the family.

This same procedure can be applied to your disk drives which disassemble with a screwdriver, but some care must be exercised here not to dicturb the alignment of the critical parts. Cleaning should be done every month, depending on the dust and dirt statis of the environment where you keep your computer.

#####

THE WORLDS'S FASTEST SORTER  
from THE HARVEST, March 1984

Beagle Bros put out a little challenge for someone to write a faster sorter. Most entries sorted 50 words in about 8 seconds. But the winning entry from Andrew Zaslów of Westport, Ct. zings along at 50 words in 5 seconds. If your looking for a fast sorter, try this one.

```

10 N = 50 : REM NUMBER OF WORDS
20 DIM A$(N)
30 HOME : INVERSE : PRINT " ";N; "RANDOM WORDS ": NORMAL
40 FOR I = 1 TO N: FOR J = 1 TO 5 + INT ( RND (1) * 5):
   A$(I) = A$(I) + CHR$ ( INT ( RND (1) * 26) + 65): NEXT
   : PRINT I;". ";A$(I): NEXT
50 PRINT : INVERSE : PRINT "SORTED LIST ": NORMAL
60 DIM B$(N): DIM A(26): DIM B(N)
70 FOR X = 1 TO N:B(X) = ASC (A$(X)) - 64:A(B(X)) = A(B(X))
  + 1: NEXT
80 Y = 1: FOR X = 1 TO 26: E = Y:Y = Y + A(X):A(X) = E: NEXT
90 FOR X = 1 TO N:Y = A(B(X))
100 IF B$(Y) = "" THEN B$(Y) = A$(X): NEXT : GOTO 500
110 IF B$(Y) > A$(X) THEN T=B$(Y):B$(Y) = A$(X):A$(X) = T$
120 Y = Y + 1: GOTO 100
500 FOR X = 1 TO N: PRINT X;". ";B$(X): NEXT

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PEEKING THE PERIODICALS  
by Pat DeVinney

The July SOFTTALK has an interesting article on how APPLEWORKS was made easier to learn with "computer-aided instruction". It shows how the tutorial progressed from an idea through testing and revisions to the finished product.

SOFTTALK reports in its TRADETALK column:

Roger Wagner Publishing and Simon and Schuster, two large publishing houses, have begun distributing software packages in bookstores.

According to a report by Teen-Age Research Unlimited, teenagers are buying and using personal computers almost twice as often as they did six months ago.

Laureate Learning Systems (Burlington, VT) has been honored by the Council for Exceptional Children for three software programs. FIRST WORDS won first prize in the mental retardation category. FIRST CATEGORIES won first prize in the learning disabilities category, and SPEAK UP won two first prizes in the children with communications disorders and in the children with physical handicaps categories.

The August INCIDER has a group of articles on telecomputing. Since this is one of the possible subjects for John Dean's classes in September, you might want to take a look at these articles. They cover selection and purchase of modems, including a directory of manufacturers, how to use modems and why you might want to use them. There is even a "Direct Connect Diary" chronicling the experiences of a first time modem buyer.

INCIDER has a four page Buyer's Guide to Early Childhood Software which includes the program name, manufacturer and price. It also indicates if a joystick or paddles are needed or if it has graphics or sound. Fred Huntington, the author, has marked his favorites and included helpful comments on each program. While your deciding which if any programs to buy, read "Joysticking" by Bill Rowland. He has taken the time to explain how joysticks work and written five short programs kids can use to draw and make music.

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(Q & A continued from page 3, column 2)

A. The easiest way would be to add a line to your HELLO program. There is a location in DOS that controls which drive is active; all you have to do is change this to drive 2 and your next disk access will be to drive 2. If your HELLO program is in Applesoft, use:  
POKE 43624,2 for DRIVE 2  
You can also change the active slot by:  
POKE 43625, slot number

Q. I'm using Apple Writer II and want to change the font on my printer in the middle of my text. To do this I have to be able to send an ESC character to the printer. My

(Cont. next column)

T.A.W. MEMBERSHIP RENEWAL LIST

This is a list of the people whose membership is up for renewal. Everyone who has not renewed their membership by the beginning of their renewal month, will have to be dropped from the rolls. Please check all information at the time of your renewal to be certain it is accurate and up to date. The \$12.00 membership fee can be paid to the treasurer at any meeting or sent to him as follows:

Bruce Dewing  
2909 Sir Walter Crescent  
Chesapeake, VA 23321

SEPTEMBER

Anidon, Ronald E.: 905 Tiger Tail Road, VB 23454 (481-4977)  
Andrews, John E.: 8120 Walders Court, Norfolk 23518  
(587-2180)  
Christian, George H.: 3912 Coverdale Circle, VB 23452  
(486-6179)  
Davis, Caroline K.: 424 Fairfax Avenue, Norfolk 23507  
(625-5110)  
Ellixson, Andrew J.: 236 Hurdle Drive, Cheas. 23320  
(482-1631)  
Labarge, John: 5220 Balboa Dr., VB 23464 (424-2142)  
La Force, Dan: 508 Bastian Court, Cheas. 23312 (547-3355)  
Laine, Larry: 909 Marlborough Circle, VB 23464 (467-1844)  
Lewis, Frank: 2100 Ardmore Avenue, Cheas. 23324 (545-1656)  
Meirow, Steven: 1505 Cromarty Court, VB 234??  
Nieprasck, Wilford: 641 Lord Dunmore Drive, VB 23464 (424-3599)  
Ostrander, Laura R.: 4444 John Jay Lane, VB 23462 (499-7807)  
Otey, Flem: MOQ D-91 NAB, Norfolk 23521 (464-3333)  
Petroske, W. Jason: 518 Fairfax Avenue, Norfolk 23507  
(627-2293)  
Powel, Al & Rosalee: 103 Ben Hogan Drive, Ports. 23701  
(488-5829)  
Robbins, Steven: 95 Rowe Drive, Poquoson 23662 (1-868-8444)  
Robbins, Tom: 1917 York Drive, Woodbridge 22191 (1-489-0047)  
Snow, Jean: 18 Parkside Place, Ports. 23702 (398-9102)  
Smith, Dan: 4701 Powhatan Avenue, Norfolk 23508 (423-0677)  
Sunzo, R.: 302 Gaines Mill Lane, Hampton 23669 (1-851-7401)  
Tignor, Carlton: 501 Wedge Drive, VB 23462 (497-0449)  
Wales, Robert A.: 4856 Admiration Drive, VB 23464 (467-1944)  
Warner, Joe: 1828 S. Woodside Lane, VB 23454 (481-2456)  
Williamson, L. Earl: 131 Gallant Fox Road, 23462 (497-7687)  
Zink, Charles R.: 173 D'Lane Drive, Newport News 23602  
(1-874-4065)

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(Q & A continued from left column)

Apple Writer manual says to type CTRL-V to enter control characters, but whenever I type CTRL-V and then ESC, it just puts me into upper case mode. How can I do this?

A. You have to type ESC three times after typing CTRL-V. The first time it puts you in upper case mode, the second time it puts you in the cursor movement mode, and the third time it actually enters it into the text.

TAM MEMBERSHIP SURVEY

Please help us to provide better service to TAM members by answering and returning this survey. For questions which ask you to rank the alternatives, use a rank of "1" for the first choice, "2" for the second choice, etc. until you are no longer interested in the choices. Feel free to add any suggestions as they occur to you. We wish to know the interests of all members of each family. Where family members have different interests, it can be noted on the survey or the questions can be answered on a separate sheet of paper. As soon as the survey is complete, please mail it to TAM, P.O. BOX 68398, VIRGINIA BEACH, VIRGINIA 23455-9364 or turn it in at a club meeting.

1. Type of computer (circle):

Apple II, II+ IIe, IIc, III, Mac, Lisa, other \_\_\_\_\_

2. Brand name and model of peripheral equipment:

Disk drive(s) 1 Apple, 1 M-Sci  
 Monitor Zenith green screen 12"  
 Printer 105 445G  
 Modem NONE  
 Speech synthesizer Echo II  
 Other \_\_\_\_\_

3. Rank areas of interest:

<u>6</u> Business	____ Law
<u>2</u> Database	____ Medicine
____ Education	<u>1</u> Programming
____ Games	____ Special Education
<u>5</u> Graphics	____ Telecommunications
<u>4</u> Hardware	<u>3</u> Word Processing
____ Home Control	
____ Investment/Money Management	
____ Other _____	

6. I would like to help in the areas checked:

\_\_\_\_ Group Purchases  
 \_\_\_\_ Hotline  
 \_\_\_\_ Library Committee  
 \_\_\_\_ Membership Committee  
 \_\_\_\_ Newsletter  
 Publicity/Public Relations Committee  
 \_\_\_\_ SIG Committee  
 Store  
 \_\_\_\_ Tutorial/Guest Speaker Committee

4. Rank languages according to interest:

<u>3</u> Applesoft	____ Logo
____ Assembly	<u>2</u> Pascal
<u>4</u> CPM	____ Pilot
____ DOS	____ Turtle
<u>1</u> Other <u>C</u>	

Name: MIKE FISCHBEIN

Phone #: 463 6847

7. Number of people this survey represents: 1

5. Evaluate club services (1 = excellent, 2 = good, 3 = needs improvement):

2 Discounts at computer stores  
1 Group purchases  
1 Guest Speakers  
 \_\_\_\_ Library  
1 Newsletter  
2 Special Interest Groups (SIGs)  
 \_\_\_\_ Tutorials

8. Please use the remaining space for any ideas or suggestions you may have to offer.

\_\_\_\_\_  
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 \_\_\_\_\_

TAM MEMBERSHIP SURVEY

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2. Brand name and model of peripheral equipment:

Disk drive(s) \_\_\_\_\_  
 Monitor \_\_\_\_\_  
 Printer \_\_\_\_\_  
 Modem \_\_\_\_\_  
 Speech synthesizer \_\_\_\_\_  
 Other \_\_\_\_\_

3. Rank areas of interest:

<input type="checkbox"/> Business	<input type="checkbox"/> Law
<input type="checkbox"/> Database	<input type="checkbox"/> Medicine
<input type="checkbox"/> Education	<input type="checkbox"/> Programming
<input type="checkbox"/> Games	<input type="checkbox"/> Special Education
<input type="checkbox"/> Graphics	<input type="checkbox"/> Telecommunications
<input type="checkbox"/> Hardware	<input type="checkbox"/> Word Processing
<input type="checkbox"/> Home Control	
<input type="checkbox"/> Investment/Money Management	
<input type="checkbox"/> Other _____	

6. I would like to help in the areas checked:

Group Purchases  
 Hotline  
 Library Committee  
 Membership Committee  
 Newsletter  
 Publicity/Public Relations Committee  
 SIG Committee  
 Store  
 Tutorial/Guest Speaker Committee

4. Rank languages according to interest:

<input type="checkbox"/> Applesoft	<input type="checkbox"/> Logo
<input type="checkbox"/> Assembly	<input type="checkbox"/> Pascal
<input type="checkbox"/> CP/M	<input type="checkbox"/> Pilot
<input type="checkbox"/> DOS	<input type="checkbox"/> Turtle
<input type="checkbox"/> Other _____	

Name: \_\_\_\_\_

Phone #: \_\_\_\_\_

7. Number of people this survey represents: \_\_\_\_\_

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