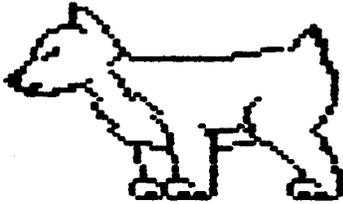


D.A.U.G.

Newsletter

DuPage Apple Users Group

August 1985



AUGUST MEETING

When: 7:30 pm, August 13, 1985

Where: Faith United Methodist Church
59th & Fairview, Downers Grove

Topic: Public domain software for the Macintosh
Other Dates to Remember

- Aug 21: DAUG Board meeting (7 pm, Downers Grove Library)
- Sept 10: Regular meeting; ProDOS tutorial
- 18: DAUG Board Meeting (7 pm, Downers Grove Library)
- Oct 8: Regular meeting; Laserwriter demo
- 16: DAUG Board Meeting (7 pm, Downers Grove Library)
- Nov 12: Regular meeting; Appleworks demo
- 20: DAUG Board Meeting (7 pm, Downers Grove Library)
- Dec 10: Regular meeting; 4th Annual Christmas contest
- 18: DAUG Board Meeting (7 pm, Downers Grove Library)

OFFICERS

- President: Bob Konikow, 968-3897
- VP/Membership: Jim Cormack, 960-5691
- Secretary: Bruce Mansfield, 420-1608
- Treasurer: John Sandora, 352-3059
- Librarian: Detlef Adolff, 766-7741
- Program Ch: Ed Danley, 969-4433
- Editor: Dave Dohmeier, 941-1645
- Directors: Chuck Jonah, 985-5497
- Priscilla Walling, 964-4894

HARDWARE REVIEW

RAMWORKS Expands Iie Memory up to 1 Megbyte

No doubt one of the hottest-selling peripheral cards for the Apple Iie Computer is the relatively new RAMWORKS Super Extended 80-Column Card by Applied Engineering of Carrollton, Texas 75006; (214-241-6060).

By using this card, an Apple Iie's memory can be expanded up to 1 Megabyte! Actually, this card alone provides up to 500K. To reach 1 Megbyte, an additional accessory card (which piggybacks onto the RAMWORKS card) must also be purchased and used.

Although the manual includes instructions on how programmers may gain access to this huge memory capacity, one of RAMWORKS' most popular applications is with AppleWorks. It comes with expansion utility software with which to modify copies of the AppleWorks Start-Up and Program disks to permit them to utilize most of the available RAM.

RAMWORKS is available with a variety of memory capacities. The least expensive version lists for \$179 and has 64K of memory (one row of eight 64K RAMs). The same card loaded with 512K of memory (two rows of eight 256K RAMs) lists for \$649. I understand that the add-on board lists for about \$130, and I am not sure whether this includes any chips. However, the 1 Megabyte version of RAMWORKS lists for \$1199. As I will explain later, RAMWORKS can be purchased locally and populated with memory chips for much less than the above list prices suggest.

So what does all this extra memory buy you? In part, the answer is a vastly enlarged AppleWorks Desktop. The table below gives you an idea of how much additional memory capacity you would gain. Keep in mind that the a regular Apple Extended 80-Column Card which has 64K of memory gives you a 55K Desktop or work space.

RAMWORKS Memory	AppleWorks Desktop
64K	55K
128K	101K
256K	200K
512K	400K
1 Meg.	800K

Obviously, this added memory means you can have many very large word processing documents on the desktop at one time, and you can build gigantic databases and spreadsheets that would otherwise not be possible with an Apple computer.

GOTO page 2

RAMWORKS

However, RAMWORKS offers other advantages as well.

RAMWORKS cards having at least 256K of memory can load the entire AppleWorks program into their memories and thus speed up the program by eliminating the need for subsequent disk accesses. And, as a bonus, even when AppleWorks is resident in RAMWORKS, it does not in any way reduce the Desktop size. The only disadvantage of exercising this option is that AppleWorks then takes about 2 minutes to load.

Other important RAMWORKS advantages relate to the optional software which is available for it. For example, there is a \$29 program called Ram Drive IIe which gives you one or more solid state disk drives which operate 20 times faster than a mechanical floppy drive and about 5 times faster than a hard disk! With this program, a 64K RAMWORKS will act as half a disk drive, a 128K RAMWORKS will work as a full disk drive and cards with more memory will emulate multiple disk drives. It features audio visual access indicators, is menu-driven, copyable, modifiable, and permits turnkey operation. It is compatible with PRO DOS, DOS 3.3, PASCAL and Applesoft.

Likewise, a program called CP/M Ram Drive IIe provides even greater speed increases for "standard CP/M" software, which generally is more disk access intensive than other software. This program is said to make software like dBase II, Wordstar, and Turbo PASCAL virtually instantaneous.

There is also a program called VC IIe which expands the capabilities of VisiCalc IIe and Advanced VisiCalc. It provides 437K of storage with a 512K RAMWORKS. Thus, with RAMWORKS you can have all your data on line all the time. And because it saves time, it can make you more productive.

Another accessory available for RAMWORKS is a \$129 RGB Option which provides double high resolution color graphics and sharp 80-column text on any Apple compatible RGB monitor. In fact, one dealer told me that his customers claim that this Option provides better results than does an Apple RGB card.

According to the manufacturer, RAMWORKS is 100% compatible with all IIe software and is compatible with more off-the-shelf software than any other RAM card. They claim that it will automatically expand Magicalc, Magic Office System, ProDOS, and hundreds of other programs. It is also said to be able to emulate other RAM cards, so software written for other RAM cards will run without modification.

The card features a 3-year "no hassle" warranty, and comes with fairly decent documentation. So far, my experience with the card has been good. Although, my Speedemon Accelerator card would not work with the RAMWORKS card, I was delighted to discover that MCT offers a free upgrade to anyone having one of their older Speedemons and a new (Rev. D) RAMWORKS card.

In terms of where and how to purchase this card, I recommend buying it from a local authorized dealer such as Micro City in Naperville (355-9726) or Pentagon Enterprises in Lisle (964-1917). They offer the basic 64K version of the card for about \$149 and \$135, respectively. You can then buy eight or sixteen 256K RAMs for about \$4 each (at places like Tron Electronics in Villa Park (834-1990) or RNR Enterprises in Bollingbrook (739-3597)), and install them yourself. Actually, if all you need is a 128K card, then just buy two more 64K RAMs for about \$1.25 each and pop them in the eight empty sockets.

In conclusion, I especially recommend RAMWORKS for almost anyone putting together an Apple IIe System from scratch. For the same price dealers charge for an Apple Extended 80-Column card, a person can buy and populate a 512K RAMWORKS card. I would further recommend that anyone needing (or anticipating a need for) RAMWORKS' increased speed and memory capacity consider buying it soon and selling off their Apple Extended 80-Column card while it still has a good deal of its original value.

Ron Hanus

Treasurers Report for July	
PREVIOUS BALANCE	723.10
REVENUE	
MEMBERSHIP	176.00
MONTHLY DOM'S	91.00
TOTAL REVENUE	267.00
EXPENSES	
REFRESHMENTS	10.00
OPERATIONAL EXPENSES	9.80
CAPITAL EXPENSES	200.00
NEWSLETTER+STAMPS	148.00
RENT	100.00
TOTAL EXPENSES	567.68
NET INCOME	-300.68
ENDING BALANCE	422.42
John Sandora	

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	Priscilla Walling,	964-4894

Software Review

THE PRINT SHOP: BY BRODERBUND SOFTWARE
Suggested price \$49.95

For the Apple II+, //e, //c and /// (emulation mode)
Use Keyboard, joystick or Koala pad to select or draw.

All selections are on easy to use menus. Move inverse line to selection and press RETURN or button on joystick or Koala pad button. As you move through the selections a graphic picture of what will happen if selected, such as style of border, or picture or font type will appear on the screen.

The Print Shop is easily configured to the type of computer you have, printer and printer interface. You simply choose from the listing which items you own and if you have two disks drives or not. When set up for two drives the program automatically knows which drive to save to and load from.

There are eight fonts (letter styles) to choose from. These can be printed in normal, inverse, and 3-d, plus a choice of two sizes (normal and large). (Note: sizes not available in banner or letterhead, 3-d not available in Screen Magic or banner modes.)

The program features sixty pre-drawn pictures. You can edit existing pictures or start from scratch and draw your own graphic designs. Save revised or new pictures to disk for future use.

Select picture by number, or see pictures one at a time to make your choice. Pictures can be printed in small, medium or large. There are many types of border designs to use in cards and signs.

A handy reference card which shows all pictures and fonts and other commands is included on a separate card for easy use. Editor commands are listed on screen while in edit mode. A help command screen is also provided to be called upon for quick reference.

After completing your design, you will be presented with a menu to check printer line-up on the paper, to print card, sign, ect., number of copies and return to main menu. You can pause during printing or abort printing at any time. ESC will allow you to back up in the menu to change any items you like.

In letterhead mode you may place a graphic picture or pictures at the top of the page along with whatever writing you wish; you also have the same option at the bottom of the page. Although the pictures at each location must be the same, you can change graphic pictures at the bottom to another set.

Card mode lets you pick a border, graphics picture, where and how it shall be printed, and font type for the cover and your message; you have the same options for the inside. You may also have a message or credit printed on the back of the card. There is also a selection of ready made cards which allow you to print the name to whom the card will be sent with a predetermined border, message and graphic design.

The banner mode lets you print out a graphics picture and a message. It is suggested if your message is too long for one printing to just return to banner mode type in the rest of the message and continuing printing; no message is too long. A choice of lettering and type size is also available.

Magic Screen lets you use graphics pictures from other graphics packages or great ones provided on disk. These can

be printed with or without text. There are also several graphic demo's on the back of the disk. Don't miss these, they are super.

After using the Magic Screen, change to other software packages for further changes if you like. Remember to save the picture with a name that will load with the package you will be using.

Use the Koala Pad to change the color of lettering after text has been added, or add other designs; or use Alpha Plot to type in more writing or change locations of items. Use a graphics dump to change the way the picture is printed, such as size, location on paper, or printed in plot or picture mode.

You can also change ribbons to add color to your printouts. Run through your printer once with one color ribbon, re-line paper, change ribbons, add text or graphs and print again. Some colored paper and envelopes are included in the package.

The Print Shop allows you to make one back up copy, but only one copy.

Now young and old can make great cards, banners and letterheads with little effort. If you have no artistic ability, or are an avid artist you can create a variety of items you can be proud of.

Reprinted from S. P. C. Apple
Crickett Townsend

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*****  
This is the way  
our Newsletter and  
some of our meetings  
are looking to  
those of us who are  
in charge. If we  
wanted a Newsletter  
and meeting  
attendance like this,  
we would join a  
TRS computer club.
```

This is the way your Newsletter and meeting could look if only more of us would get involved. An article in the Newsletter about that program you got a year and a half ago is still welcome. We can still learn from your experiences. When you came to our meeting for the first time back then, you were looking for something. Let one of the officers know what that something is (or write an article about it) and we will get a meeting about it. Come on, come to the next meeting, buy our \$3.50 professionally written word processor (DOM#42) and write that 25 word article for us.

Ed Danley

July Meeting

Our meeting actually managed to start on schedule. President Bob Konikow stated that due to many requests we will be attempting to begin ALL of our meetings on time. Our Librarian, Detlef Adolff, demonstrated our current DOM which contains over 20 programs on the Pro-DOS formatted disk. Bruno Marusarz then demonstrated his AE RAMWORKS card that contains 512K of aux memory for the Apple. The biggest use of the extra memory is Apple's APPLEWORKS program. One of the advantages of the RAMWORKS card is that you can load the entire APPLEWORKS program library in memory (via a ram-disk simulation) providing instant access to secondary program modules and still have room for a large file in any or all of the APPLEWORKS components. One item to watch out for is that you can easily create a file bigger than the capacity of APPLE's floppy disk. If this happens you can save the files in separate parts. The Profile hard disk does have the capability to save larger files to disk. Many thanks to Bruno for his demonstration. Next Pennyann Christopher and Bob DeKa of CBM Computer Center (formerly Computer Junction) in Elmhurst demonstrated the new JAZZ program for the Mac. Because of the Mac's small (but high resolution) screen, we all had to crowd up front to see the program work. (Randy Paulin is rumored to be building an interface that will allow the Mac's screen to be broadcast over our monitor setup.) Thank you Pennyann and Bob for showing up on short notice (3 1/2 hour) and showing us the latest edition of software for the Mac. Following the break, we had a special door prize night. In addition to the normal prize that the club purchases and gives out (of which yours truly won!), Farnsworth Computer Center donated 8 older programs for the Apple //. These were given out with continuing door prize drawings. The main topic of our meeting was how to market the program you have written. Will Taylor talked to us about how to keep and gather information you will need when beginning the marketing process. This includes: program listings, sample screens and displays, programmer documentation and comments, along with the ever important user documentation. Priscilla Walling then talked about how she started marketing her program after getting a write up in a technical magazine and receiving letters from interested parties. One item she mentioned that she did before marketing her program was that she had both the program and documentation copyrighted. Bob Konikow told us how he targeted his program for Trade Show Planners and went after that market. Bob said that if he were to market another program (which he might be going to do), he would consider having an outside company do the actual marketing and distribution of the product. Thanks to Will, Priscilla and Bob for sharing their experiences with us. Our next meeting will discuss public domain software for the Mac. Future meeting topics under consideration include: ProDOS in detail, Apple driven household controllers (BSR?), EMAIL with the Apple among others. If you have any knowledge about any of these areas or have other suggestions for meeting topics, please let me know (969-4433) or any other club officer.

Ed Danley

SUMMER SAFETY TIPS

1. Do not ride in an automobile or get in the way of one; 10% of all fatal accidents are caused by them.
2. Do not stay at home; 17% of all accidents occur at home.
3. Do not walk around on the street; 14% of all accidents occur to pedestrians.
4. Do not travel by air, rail, or water; they cause 16% of accidents.
5. However, the DuPage Apple Users Group has never had a fatal accident at one of our meetings.

Obviously, the safest place to be is at a DAUG meeting - The second Tuesday of every month!

Ed Danley

HOW TO SUBMIT NEWSLETTER ARTICLES

Articles for publication in the DAUG Newsletter can be given to any of the officers at the regular monthly meeting. They can also be mailed directly to the Newsletter Editor at the following address:

Dave Dohmeier
443 Niagara
Elmhurst, IL 60126

The deadline for submission of these articles is the date of the board meeting (see the schedule on page 1). Remember, the Newsletter is for you and by you. As an added incentive for you to submit an article, you will be entitled to a free DOM during each month you submit an article. We can use articles from newspapers and magazines (except Nibble) and your own creations are especially welcomed. Reviews of hardware and software are particularly useful to the entire membership.

Please have each submission consist of the following:

- 1) a printed copy of your article
- 2) a diskette containing your article
- 3) the word processor used to create your article
- 4) your name and telephone number

Your cooperation is needed and appreciated.

Say WHAT?!!! quoted from Readers Digest

From the Profile Disk Drive manual for Apple computers:
"Your Profile Drive is packed in a cardboard shipping carton. After you open the carton, remove the top layer of thick, foam material and you will find a small cardboard box lying on top of the drive. The box contains this manual."

Ed Danley

Software Review

THE DAISY PROFESSIONAL STATISTICAL PACKAGE FOR THE APPLE

Publisher: Rainbow Computing
355 Costa Mesa St.
Costa Mesa, California 92627
(714) 548-5429

Type of Program: Advanced Statistical Analysis
Copy Protection: Backup provided
Sys Requirement: Apple II, II+, IIe, IIc with 48K, 1 drive
Optns Supported: Interface to Multiplan and General Mgr.
: 128K (with //e), 80 column card, Ultraterm
Desirable Components : Extensive statistical capabilities
Price : \$199.95
Rating : ***+

The opinionated ones who say "You can prove anything with statistics" ought to try the Daisy Professional by Rainbow Computing.

This state-of-the art package of useful statistical programs has more built-in safeguards and cross-validations than a dog has fleas. For example, model testing compares fitted and residual values in the regression equation. "Lagging" the data in a time series also is designed to make it difficult if not impossible to "lie" with statistics, if the analyst is so inclined. The user is cautioned to throw out results that do not meet strict requirements of the statistical model being used. These warnings are included in output and would have to be suppressed to be ignored. Such a flag is "Warning: Loss of Significance," as the result of an internal check of a matrix inversion.

Another example of the basic honesty of the Daisy Professional is the "Flip" routine, which splits available data into two subsets, with one subset being used for model development and the other to be used for model validation.

DAISY means "Data Analysis Interactive SYstem". The descriptions are prepared in a friendly, conversational, well-edited style that makes the use of statistics painless even for the beginner. One word of caution, however, DAISY is not an elementary course in basic statistics. She has advanced prediction routines generally taught at the intermediate level in college, such as multiple, stepwise and partial correlation/regression. DAISY assumes that the analyst knows what statistical test is required by the nature of the problem at hand, and also rudimentary knowledge of how to interpret results with standard look-up tables, such as "Distribution of F," or "Critical Values of U in the Mann-Whitney Test".

DAISY is supplied with a protected pre-copy program disk and a second disk that includes sample data arrays, which can also be used as a back-up for booting purposes.

The instruction manual is conveniently arranged into 19 sections, beginning with a tutorial on how to use DAISY, and progressing through data organization, basic statistics (both parametric and non-parametric), correlation, regression, hypothesis testing, and printing and utility commands.

DAISY data can be sent to Visi-Plot or other graphics packages by using a standard DIF format, although a limited number scatter plot routines are available within DAISY itself

for use on non-graphics printers.

Some of DAISY'S good-looking features which distinguish her from homely imitators are her manipulative abilities, such as Hide and Recover, Purg (for packing a table and removing inactive columns), Flip and Sort. These front-end and other transformations help DAISY handle missing data as "M" values in all routines. (In a few cases, DAISY will notify you that missing values are not permitted, such as in analysis of variance routines).

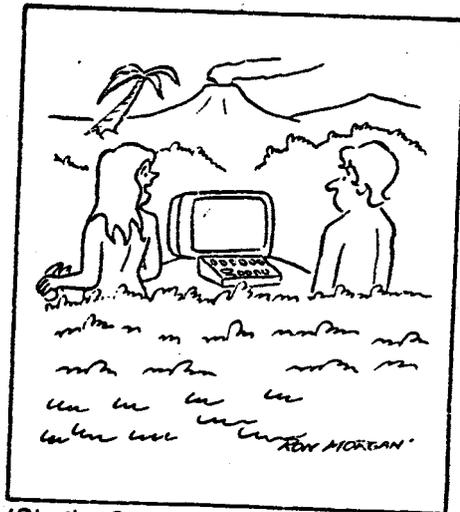
However, DAISY's best looking feature, in the eyes of this beholder, is her PRED function, which can predict values of a dependent variable when supplied with new values for one or more independent variables, which is what multiple regression is all about. In other statistical packages, the analyst must transform regression weights to arrive at a prediction, whereas in DAISY, this is done automatically.

DAISY's regression routines are thus her strongest suit. She also has a good mix of parametric and non-parametric basic statistics.

Due to memory requirements DAISY leaves something to be desired in her handling of explanatory statistics. For example her cross-tabulation and scaling routines are simple-minded when compared to interaction detection programs on the market, such as Automatic Interaction Detection and other lattice-type models. She also seems to be a bit blind to Likert-type scaling opportunities. Scalogram Analysis, for example, is an order of magnitude more sophisticated (and useful) than the Runs test in DAISY's program library. The addition of Likert or Thurstone scaling capability would broaden DAISY's attraction for political pollsters without masking her other charms.

In short, DAISY may not be the best looking girl around when compared to the big-time floozys, but in her price range, nobody can touch her.

William Hazard reprinted from Apple Dillo



'Oh, the Serpent Left That Here. I Believe He Called It an Apple.'

APPLE Stuff For Sale

Apple IIe 64K Extended 80 Column Card. List \$250. LN. \$150

Applied Engineering 128K Extended 80 Column Card for Apple IIe. Includes full documentation plus Ram Drive and AppleWorks Expander (101K Desktop) software. New \$249. LN. \$150

Micro-Sci 64K Extended 80 Column Card. Needs repair. Best offer

Apple Disk II Drive. EC. \$175

Two Rana Elite One Disk Drives with Rana Disk Controller Card. Extremely precise band-step mechanism is reputedly capable of quarter tracking. Write-protection switch. Controller card automatically handles DOS 3.2 files with no need to convert. Includes software to modify DOS so that drives can store up to 163K per disk. Original cost about \$700. LN. \$450

Comprint 912P Printer. Very fast (220 cps). Ideal for program listings. No graphics. Works with Apple Parallel Interface Card and aluminized roll paper. Current model. List \$495. Full documentation. Mint. \$90

Apple Parallel Interface. Full Documentation. List \$165. LN. \$100

Epson Parallel Interface Card. \$50

Microsoft CP/M Card. With software and documentation. EC. \$135

Music Construction Set. \$30

Creative Writer. Simple, yet powerful word processor for Apple II, II+, IIe and IIc. List 79.95. New and unopened. \$50

Dow Jones Market Manager. An accounting and control system for managing multiple portfolios. Provides access to Dow Jones existing and future data bases including their News/Retrieval Service. Tax deductible. List \$300. New and unopened. \$200

VisiCorp Desktop Plan II. List \$250. New and unopened. \$125

Flight Simulator II. LN. \$35

The Routine Machine & CHART. Graphic related routines for Applesoft Basic. List \$39.95. New. \$20

Advanced VISICALC for IIe. EC. \$125.00

AMDEK Color I monitor (composite type, non RGB) new \$350, EC. \$160

RAMDRIVE IIe Disc Emulator for Extended 80 Column Cards. List \$29.95. LN. \$20

Ron Hanus 971-0435 (before 10:30 PM)

Software Review

ASCII EXPRESS "THE PROFESSIONAL"

ASCII Express is a program by SouthWestern Data Systems. If you have an Apple II computer with an internal modem this is the best communication package on the market. It is especially good if you are using a Novation Apple Cat for your modem, but it works ok with stand alone modems as well. You will need at least 48K RAM. It can be used with 40 column display, but 80 column is much better.

This program does just about everything you would want from a communications program. It features auto-dial, unattended answer, password file protection, character, line or block send modes, and error checking. It has handshaking macros to dial remote systems (auto-log on and log-off). You can capture incoming data, send and receive files from disk or buffer. Terminal emulation is available for more than 10 different terminals and you can define your own by selecting "other". The list goes on and on of what AE Pro does. It is the only communication program that I know of that allows you to edit or write text to buffer or disk while in the program.

The Users Manual that comes with AE Pro is very good. The instruction section is easily understood and allows almost anyone to follow the directions and get on line in about 20 minutes. Some of the explanations are a bit complicated. The hard part is learning how to use features without necessarily understanding exactly what is going on but as with everything, the more you understand the more you can do with the program.

One thing that should be noted is that AE Pro is most flexible using a Novation Apple Cat or a Hayes Micromodem II. As I said before, stand alone modems can be used but there are some features that will not work and it is not clear in the Users Manual what features will or will not work with the stand alone modems. Any one of the smart modems can be used and each has its command codes which must be adapted to AE Pro. It does take a little time to learn AE Pro, but I think it is well worth the time spent.

Wally Shaeffer reprinted from S. P. C. Apple



DuPage Apple User's Group
Disk of the Month

VOLUME 49, August 1985

The August DAUG DOM features some fantastic programs titled "Trial Size Toolbox"! These are 8 routines which tremendously enhance the power of Applesoft. These programs are from Roger Wagner Publishing and are a sample of their commercially available "Toolbox" programs.

The routines included on this double-sided disk are used for text output, input statements, reading memory pointers, improved GET statements, tone generation, charting, and re-dimensioning arrays.

These enhancements can be tied into your own programs in a 'hidden' way, so that you don't have to worry about where to store them or how to use them. These utilities are accessed through the ampersand command.

The Trial Size Toolbox includes samples from each of the Toolbox Series programs. Other products available are The Chart 'N Graph Toolbox, The Database Toolbox, The Video Toolbox, and The Wizard's Toolbox.

Documentation is included on the disk. Just choose the proper option from the Main Menu to print out documentation on these commands as well as on the other available Tool Box Series enhancements. Make sure you have four dozen sheets of paper in your printer, and start the printout. Go have a cup of coffee (or other beverage of your choice) and return in a few minutes to turn the disk over when prompted.

SIDE 1:

- *T 000 TRIAL SIZE TOOLBOX
- *A 046 HELLO
- *A 034 HELLO2
- *A 024 MENU
- *S 006 BOX CLOSED.IMAGE
- *S 007 BOX OPENING.IMAGE
- *S 008 BOX OPEN.IMAGE

- *T 000 TRIAL SIZE WORKBENCH
- *B 003 WORKBENCH
- *B 020 WB.OBJ
- *T 002 AMPERSAND SETUP
- *T 002 CALL SETUP
- *B 002 REMOVE WORKBENCH

- *T 000 TOOLBOX FILES
- *B 005 ARRAY REDIM.TB
- *B 002 TONE.TB
- *B 014 CHART.TB
- *B 004 FIXED LENGTH INPUT.TB

- *B 003 GET.TB
- *B 002 PTR READ.TB
- *B 003 TEXT OUTPUT.TB
- *B 002 WINDOW.TB

- *T 000 TRIAL SIZE DEMOS
- *A 014 ARRAY REDIMENSION DEMO
- *A 028 TONE DEMO
- *A 038 CHART DEMO
- *A 036 FIXED LENGTH INPUT DEMO
- *A 013 GET DEMO
- *A 010 POINTER READ DEMO
- *A 025 TEXT OUTPUT DEMO
- *A 020 WINDOW DEMO

- *T 000 DOCUMENTATION FILES
- *A 016 DOCUMENTATION PRINTER
- *B 009 MOVER
- *T 063 W1
- *B 052 INTRO.LIST

SIDE 2:

- *T 000 TOOLBOX SERIES DEMOS
- *A 015 DEMO MENU
- *B 033 TITLE SCREEN

- *A 043 THE TOOLBOX SERIES DEMO
- *A 034 THE DATABASE TOOLBOX DEMO
- *A 020 CHART 'N GRAPH TOOLBOX DEMO
- *A 045 THE VIDEO TOOLBOX DEMO
- *A 041 THE WIZARD'S TOOLBOX DEMO

- *S 024 PIC.CHART 'N GRAPH DEMO
- *S 020 PIC.LINE GRAPH
- *S 025 PIC.BAR CHART
- *S 019 PIC.PIE CHART

- *T 039 W2
- *B 026 INPUT/GET.LIST
- *B 060 TUT.LIST
- *B 047 CMD.LIST
- *B 016 LIB.LIS

** H E L P **

If YOU have some interesting, unusual, or just plain old neat program you've written and that you are willing to share with the other club members....please, Please, PLEASE see Detlef Adolff, the Club Librarian at the meeting. He'll tell you about free disks, free DOMs and free recognition for YOU!

VISIT OUR FRIENDS!

A number of local computer stores support our activity by offering the discounts listed below to those who show their membership cards. Stores that sell merchandise to everybody at a discount are not included.

- Byte Shop of Darien, 8105 S Cass Av, Darien (960-1422) -- 10%
- Computer Grove, 1121 Warren Av, Downers Grove (968-0330) -- 10%
- CEM Computer, St. Charles Rd and Route 83, Elmhurst (530-1125) -- 15%
- CEM Computer, 7 S LaGrange Rd, LaGrange (352-4700) -- 15%
- Computer Workshop, 1426 W Ogden Av, Downers Grove (971-0004) -- 10% on training and rentals; none on consulting or programming
- ComputerLand, 136 Ogden Av, Downers Grove (964-7762) -- 5%
- Farnsworth Computer Center, 1891 N Farnsworth Av, Aurora (851-3888) -- 15%
- Farnsworth Computer Center, 383 E North Av, Villa Park (833-7100) -- 15%

Frequently a smaller discount is offered if a credit card is used. If a store would like to be included in this listing, please write the editor and give us your discount schedule for Apple-User Group members.

P O Box 294
Downers Grove IL 60515

The mailing label to the right is the only notice you will get that your membership is expiring. If you let your membership lapse, you will have to pay another initiation fee of \$8, plus your \$12 dues, to get back on our list.