



# **SOFTDISK™**

**for Apple II+® , IIe, IIC,  
IIC+, and IIGs**

**BACK ISSUE  
Catalog**

# A Word about **Softdisk** ...

Jim Mangham established **Softdisk** in September 1981 by mailing the first issue of **Softdisk**<sup>TM</sup> to fifty Apple® owners. The first seventeen issues of **Softdisk** were single-disk issues, but since issue #18, all issues have been published on two disks. Issues since #81 are also available on single 3.5" disks. Today **Softdisk** in both formats is sent to thousands of eager Apple users each month.

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## ISSUE #1 (One 5.25" Disk)

**Learnit** — Memorize text the easy way with the help of your Apple.

**Dollar** — A subroutine for formatting numerical values into dollars and cents output.

**Using** — Print out numbers in whatever form you wish.

**Softdisk Print All** — Print all text files on the earliest *Softdisk* issues.

**DOS Command Changer** — Edit DOS commands and error messages to read the way *you* like them!

**John's VTOC Map** — View a track and sector map on your screen.

**Listing HELLO** — Select your program by number.

**Graphics** — Learn how to use hi-res graphics.

**Flash Cards** — Let your Apple teach you French.

**POKE & PEEK Name & Date** — An easy way to use dates in your programs.

**CTRL Find** — Find those hidden control characters in filenames.

**Super RAT** — Read all your text files, sequentially or randomly.

**Reminder System** — Keep track of all your appointments.

**Softdisk Database** — Create a database for any application.

## ISSUE #2 (One 5.25" Disk)

**Fire Organ** — *Thirty-five* light shows in a demo of the CEEMAC dynamic-graphics language!

**Icebreaker** — Break the ice of DOS random file-processing.

**Super RAT** — Read all text files — even if you don't know their record length.

**Num Conversion** — Enter a number and receive its binary, hex, and decimal equivalents.

**Revolving Words** — Spice up text on your screen.

**Music** — The first music ever written for *Softdisk*.

**Professor Backwards** — See words or phrases *sdrawkcab*.

**Short Sort** — A demo to give you a headstart at sorting.

**Life Expectancy** — Decide if you believe what this program tells you.

**FreeCAT** — Find out how many free sectors you have on your disk.

**Paddle Test** — Test your paddles or joysticks.

**Address Labels** — Three label programs to add to your collection.

**Checkbook** — Let your Apple help you balance your checkbook.

**Lo-Res Graphics** — Print out a lo-res picture on your printer.

**Magic trick** — A program which might be real magic — or only a trick!

**Dater** — Add the current date to your programs.

**Comparer** — Compare two files to see what changes have been made.

**Random** — Learn something you did not know about random numbers.

**Picture Packer** — A packing routine for hi-res graphics.

## ISSUE #3 (One 5.25" Disk)

**Happy Birthday** — Make someone happy by running this program!

**Dunking Machine** — You will think you're at the county fair.

**Grade** — A computer gradebook for teachers.

**Location** — Find the length and address of the last BLOAded (or BRUN) binary file.

**Planet of the Robots** — Take a trip into the future.

**Buzz Phrase Generator** — Create some buzz words of your own.

**Song Writer** — Try being the composer you have always wanted to be.

**One Six-Sided Die** — A subroutine for you to use in your programs.

**String Art** — Your Apple shows you how artistic it can be.

**Headlines** — Extra! Extra! Make your own headlines.

**Simple Simon** — An interesting variation of the popular favorite.

**Speed Reading** — Increase your reading speed.

**Fraction Multiplier** — Math can be fun when you have your Apple to help.

**Kinetic Art** — Your Apple can create wonderful designs by itself!

**Keno** — A betting game that is much cheaper than a trip to Vegas.

**Cows & Bulls** — You're on your own this time!

## ISSUE #4 (One 5.25" Disk)

**Kirby HELLO** — A nice HELLO program to add to your collection.

**It** — Run IT and find out what IT does.

**Flexible Menu** — Select your programs the easy way.

**Smurk** — An entertaining adventure game awaiting your solution.

**Radar Defense** — A hi-res game to entertain you.

**Keno Prog** — A variation of another Las Vegas favorite.

**Remember Letters** — A version of "Simon" that is really different!

**Yahtzee** — The familiar game — *without* the dice.

**Dictionary Game** — An excellent party game.

**Scrabble Help** — An aid for all players of the classic board game.

**Banner** — Create your own custom banner for that special occasion.

**Hi-Res Metronome** — A more dependable alternative than tapping your foot.

**NumPad** — A numeric keypad for Everyman.

**Century Date** — Find out the day of the week certain events took place.

**PDL Evaluator** — Test your paddle or joystick, or even the latter's buttons!

**RND** — A random-number generator you will find useful.

**Grade Curver** — If you grade papers, you will treasure this one!

**Chemistry Drill** — Let your Apple help you pass that chemistry test.

**Boat Shopping** — Compare before you buy a boat or other related equipment.

**KAFML** — A correction to our database program in Issue #1.

**KAFM Key Print** — Use with our Issue #1 database program to learn the file structure we used.

## ISSUE #5 (One 5.25" Disk)

**First Busy Signal** — Perhaps a solution to an annoying part of your life.

**Some Good Sound** — A collection of music to enjoy.

**Defender** — Try to save planet Earth in this adventure.

**Nicomachus** — Choose a number and have your computer guess it!

**Pig Latin** — A conversion program for the language of fun.

**Jumbler** — Have your Apple jumble the letters, then sort them out again.

**Fortune Teller** — Find out what the future holds for you.

**S.A.M.** — No quarter is necessary to play this clever arcade game.

**Biorthythm** — Find out what your good days will be.

**Dancin' Words** — Imagine! A square-dancing Apple!

**Hewitt Graphics** — A color graphics utility that will wow you.

**Spitz** — Watch this Olympic sport any time!

**Impossible** — A combination of hi-res graphics and text.

**Emil's PDL Tablet** — Use joystick or paddles to design almost anything.

**Kaleidoscope** — An impressive demonstration of your Apple's color capabilities.

**Converter** — A handy measurement conversion tool.

**SAT Test** — Improve your vocabulary.

**Applebacus** — Learn how to add on an abacus.

**Math** — A tutorial for 1st through 3rd graders.

**Word Problems** — Another entertaining and instructional math game.

**Calendar** — Let your Apple find the date for you.

**Memocap** — A routine which will tell you how much of your Apple's memory is available.

**Free Space** — Find out the number of free sectors on your disks.

**Cookbook** — A program any home chef will love.

**Musician** — Your Apple becomes an organ that can save your musical creations.

## ISSUE #6 (One 5.25" Disk)

**Pop Quiz** — There's no need to dread *this* quiz!

**Garrison's Show** — All you need to do is sit back, watch, and enjoy!

**The Dungeon of htaM** — Learning has almost become *too* much fun.

**Sir Isaac's Apple** — Get out your paddles or joystick — and *your* Apple.

**Hangman** — Increase your vocabulary as you play this standard.

## ISSUE #6 (Continued)

**History Quiz** — A quiz can teach you more than you think.

**Mastermind** — An Apple variation of the popular game.

**Stereo** — You will find that 3-D on your Apple is quite impressive!

**Castle** — A display featuring your Apple's graphics capabilities.

**Spirograph** — Turn your Apple on — and loose!

**Bumble Bee** — An endlessly-running lo-res graphics demo with sound.

**Super HINEM Bit Nibbler** — A program guaranteed to copy "ANYTHING."

**Nested Menu** — A nice, friendly way to make program selection easier.

**Amount Writeout** — Try working this utility into your check-writing program.

**Electronic Library** — Keep track of your magazine articles, computer-related and otherwise.

**Metric Magic** — Take the headache out of metric conversion.

**Quilt Program** — Figure your material requirements *without* a pencil!

**Home Computer Inventory** — Keep an inventory of all your hardware and software.

**Decision Maker** — Your Apple can help you make the right one.

## ISSUE #7 (One 5.25" Disk)

**A Short Adventure** — Another entertaining adventure game for your collection.

**Stop/Go** — A color-and-sound treat for the very young.

**Screensize** — Run it and find out what it is all about.

**Checkerboards** — Select the checkerboard you like best.

**Spaceget** — Find out how many sectors you have left on your disk.

**Super RAT** — Read sequential and random text files with this handy utility.

**Data Writer** — Convert binary data to a text file which can be EXECed into a BASIC program.

**Date HELLO** — Keep track of the date and use it in your programs.

**LIST** — Print your program in an easy-to-read format.

**Picture Packer** — Pack and un-pack hi-res pictures and get more on your disk.

**Weight Calculator** — Find out more about yourself than you may want to know!

**Recipe Catalog** — Your recipes will never get lost or messy again!

**DUP Label** — A worthy addition to your label collection.

**EXEC File Tutorial** — Learn all about using EXEC files.

**Hi-Res Flipper** — See what you can learn from RUNNING this program.

**Porkyjump** — A clever demonstration of page-flipping.

**Shape Display** — A utility illustrating the use of shape tables.

**"&" Hook from BASIC** — Discover the true value of the "&" statement.

**Random File Lesson** — Learn how to use random-access files.

**Middle Ages Quiz** — Brush up on your history.

**Dates in History** — A "what happened when" quiz to jog your memory.

**Music** — An interesting combination of music and graphics.

**Educational** — The probability of rolling a "7" may astound you.

## ISSUE #8 (One 5.25" Disk)

**Snake** — Try to avoid the snake as long as you can!

**Stars** — A guessing game in which your Apple supplies the clues.

**Space Gom** — Take off into outer space in this text adventure.

**Horse Race** — Bet on the ponies and let your Apple keep track of your winnings.

**Random Walk** — How far will a man walk in ten steps if he selects a random direction with each step?

**Smiley Face** — A program to bring out the child in all of us.

**Siren** — A clever sound routine to use in your programs.

**Hex to Ten** — Hex-to-decimal conversion will never be a problem for you again!

**EXECumatic** — A tutorial on EXEC files.

**Draw Shapes** — Draw shape tables and save them to disk.

**Jury** — Select the most-qualified jurors for an important trial.

**Stopwatch** — The only problem with this stopwatch is how to carry it!

**What I Do** — Find out what your Apple is all about.

**Matrix Magic** — Learn all about matrix techniques.

## ISSUE #8 (Continued)

**Vocab** — Improve your vocabulary with a little help from your Apple.

**The Table** — A true helper for the student of chemistry.

**Ion Test** — If ions give you a charge, this one's for you.

**Sort Routine** — Sorting things won't be hard any more.

**Bubble Sort** — Watch the bubbles rise in this colorful bubble sort.

## ISSUE #9 (One 5.25" Disk)

**Quizzer!** — Teachers, create your own quizzes.

**Management Style Assessment** — Find out what your management style is.

**Lien Escape** — Rescue the princess and collect the money!

**Alivader** — An arcade adventure requiring joysticks or paddles.

**Birthday Card** — Wish someone special a happy birthday.

**Epicurean HELLO 1.1** — A valuable addition to your HELLO library.

**Capture** — Merge subroutines into your BASIC programs quickly and easily.

**Financial Series** — A finance program that is certainly worth the money.

**Record Timer** — A handy program for anyone who records LP's to tape.

**Physics Lesson** — Try for a passing grade!

**Matchmaker** — In order to win, you will have to jog your memory.

**Estimation** — This surprise ending will get your attention!

## ISSUE #10 (One 5.25" Disk)

**Calc-Man** — Believe it or not, a cross between VisiCalc and Pac-Man!

**Electric Letterhead** — Design your own letterhead!

**Connect 4** — A two-player version of the popular game.

**Name the States** — Review the locations of the U.S. states.

**Gil & Sully** — A lo-res tour through some of Gilbert and Sullivan's best-known shows.

**Squiggles** — A hi-res demo for your enjoyment.

**Music Play** — Some great computer creations which will be music to your ears.

**Name Changer** — Change the name of your disk to something that makes sense!

**Shape Table Assembler** — Assemble shapes into a multi-shape table.

**All-Base Converter** — Take a number from any base and convert it into any other base.

**Moroniquiz** — Surely you can supply all the correct answers!

**Three D Apple Prisoner** — An adventure game sure to become a collector's item.

**Apple Screenwriter** — Find out how Hollywood gets all its story ideas.

**Apple Stopwatch** — The latest word in digital watches.

**Make a Mess** — Be an artist with this joystick-controlled drawer.

**The Magic Hat** — Buy a ticket and go to the magic show.

**Label Printer v.1.1** — Select the desired label size and the number you want to print across.

**Plotter 1.3** — Print out a summary of any survey data.

**Money Market** — Find out if your money fund is making any money.

**Hidden Line 3-D** — Draw 3-D pictures with the hidden lines removed.

## ISSUE #11 (One 5.25" Disk)

**BASICalc** — A super spreadsheet program!

**A Duel** — It's "dueling paddles" time with your friend.

**Space Chaser** — A fast-paced space arcade adventure requiring swift fingers.

**Dive Bomber** — A challenging two-player strategy game.

**UFO II** — Take a trek into outer space!

**Artillery** — Fire away if you think you can hit the target.

**JFK** — Turn on your printer for a computer picture.

**MiniAssembler** — An assembler which works the way the Apple reference manual says it should.

**Memory Test** — Find out if your Apple's memory is as good as you think.

**Salier HELLO** — Keep a date file updated.

## ISSUE #11 (Continued)

**NFL Ranker** — Predict winners in the National Football League.

**Decision Maker** — Receive computer help in making that all-important decision.

**Intruder Alert** — Scare away any intruders with this alarming program.

**Super Scores** — Keep track of high game scores for future reference.

**Car Loans** — Before buying a new car, "test-drive" this program!

**Fraction Practice** — A fun way for the kids to practice their fractions.

**Roots and Prefixes** — A helpful review of Greek and Latin contributions to our native tongue.

**Balloons** — Try and hit the balloon on your very first try.

**Animate Cow** — View a demonstration of moving a shape around with paddles or joysticks.

**Compiler Demo** — Visually compare the regular and compiled versions of a program.

**Elf** — Spice up your text screens!

## ISSUE #12 (One 5.25" Disk)

**Othello** — Our Apple version of the popular game.

**Fisherman's Wharf** — Grab your paddle or joystick — instead of your rod and reel! — and catch a live one!

**PRINT & INPUT Routines** — A collection of 36 routines for adding that professional touch to your programs.

**Morse Code** — Take advantage of this chance to learn the Morse code.

**AMPM** — Calculate the times of sunrise, sunset, dawn, and dusk for any date and place.

**Checkbook Balancer** — Keep your checkbook up-to-date and in balance.

**Quiz Machine** — Create your own multiple-choice quizzes.

**Trivia** — How many trivial answers do you know?

**Text Window Demo** — Learn how to create and use a text window.

**BASIC PRINT Demo** — Brush up on INVERSE and FLASH, among other things.

**Good Music** — Some computer-easy listening for your relaxation.

**Just a Myth** — Find out how much or how little you know about mythology.

**Cookbook Revisited** — An update of our famous cookbook.

## ISSUE #13 (One 5.25" Disk)

**Hi-Res Movie, Part 1** — The first hi-res movie to appear on disk!

**Matchmaker II** — Teachers, generate matching tests for your students.

**Jukebox** — No coins are required to hear a song!

**Invaders** — An arcade game sure to keep your interest.

**NIMbot** — A variation on the theme of NIM.

**Roadrace** — Keep your car away from the retaining walls!

**Bug Finder** — Bugs and exotic creatures pop up everywhere!

**Whoops & Fidgets** — Watch in amazement as your Apple really does its thing!

**SCRN Dump** — Dump an entire screen of text to your printer.

**Q&D RAT** — A handy utility for reading any text file.

**Figure Drawer** — Create and color circles, spirals and other geometric figures.

**Shoplist 3.1** — Take this list with you when you go shopping, and you won't forget anything!

**Amortization** — Find out how much a loan is really going to cost you.

**Equip Lister** — Save a list of items to the disk and print them out.

**Astronomy Quiz** — See if you have what it takes to become an astronomer.

**Hi-Res Solar System** — You'll think you're in orbit when you run this one!

**DOS Tutorial** — Your computer knows DOS better than anyone!

**Spectrum** — Find out what the colors mean.

**Simpson** — Use Simpson's rule to make calculus easy.

**Graphing Functions** — Let your Apple do the work and graph your functions for you.

**Slide the Letters** — Learning about the alphabet is as easy as A,B,C!

**Match the Pitch** — A sound activity definitely not for the tone-deaf!

## ISSUE #14 (One 5.25" Disk)

**Othello II** — Another version of the ever-popular **Othello**.

**A-Maze-ing** — Try to find your way through *this* maze!

**Life** — An old favorite is resurrected!

**Towers of Hanoi** — A modern version of a game which has been around since at least the 1880's.

**Crazy Stones** — Gather family and friends and all go "crazy" together!

**Paddle Mushroom Garden** — Find out how your mushroom garden grows.

**Master CATALOG** — A utility for cataloging all your disk CATALOGs.

**File Code Changer** — A quick way to change all your file codes and confuse whomever needs confusing.

**Financial Wizard** — Financial help for anyone who spends money.

**Word Power** — Add your own words to this vocabulary-building quiz.

**TMH Subs** — A whole group of useful routines for various tasks.

**Hi-Res Movie, Part 2** — Follow the continuing adventures of Indiana Jones.

**Christmas** — The best way *ever* to send your Christmas cards!

**Christmas Special** — A card made "special" by its music and graphics.

## ISSUE #15 (One 5.25" Disk)

**Riddles** — All the answers are right before your very eyes!

**Logic Problem Solver** — Solving logic problems does not have to be difficult.

**Crystal Simulation** — Learn about crystals and their structure by actually seeing them!

**Polar Plot** — Plot equations with this educational aid.

**Counter** — Another useful tool for teachers.

**Horoscope** — Decide if what it says about you is true.

**BioPlot Scribe** — Get a beautiful printout of your biorhythm chart.

**Disk Verify** — Find and lock out bad sectors on your disks.

**Hex-Dec Converter** — Convert from hex to decimal the computer-easy way.

**Boot Program Changer** — Change "HELLO" to anything you want.

**RAM Test** — Make sure you don't have a bad chip in your Apple.

**Kaleidoscope** — Watch beautiful graphics designs appear on your screen.

**Stars One-Liner** — Display random-sized stars randomly!

**Number Take-Off** — Either you or your Apple will win, hands down!

**Craps** — A hi-res version of the popular dice game.

**Hangman** — A lo-res version of the classic game in which you or your computer can choose the words.

**Othello III** — Practice playing with a patient, forgiving opponent — your Apple!

**The Incredible Shrinking Man** — A hi-res adventure that will keep you thinking.

## ISSUE #16 (One 5.25" Disk)

**LIST in Applesoft** — Study this program and learn how Applesoft programs are stored in RAM.

**Fun with Math!** — A math drill using lo-res graphics.

**Recipe Proportions** — A real kitchen-aide of a program!

**Phone List** — A search program you can use even if you know only the first letter of the name.

**Mailing Labels** — A helpful application for sorting, editing, and printing labels and a master list.

**Lucky Numbers** — Display computer-selected random numbers.

**Prediction Program** — You will have to decide if predictions made are *really* possible.

**Text Editor** — Edit, format, and compile text into two columns.

**LHS Disk Map** — View all sectors on your disk in glowing lo-res color.

**MEMDump** — Display a range of memory on-screen in hex and ASCII.

**Restore @** — A machine language routine which RESTOREs the DATA statement pointer to a specified line.

**Name Faze** — Print randomly a string on-screen.

**Electric Eraser** — A really *different* text editor!

**Hopper** — A strategy game that appears impossible to win.

**Vac-Man** — An unusual game, the likes of which you have never seen!

**Ten-Minute Recital** — Take a break and listen to some music.

**Sound Effects** — Unique sounds you may want to include in your own programs.

## ISSUE #17 (One 5.25" Disk)

**Say That Again Quiz** — The first in a series of quizzes from *Games Magazine*.

**Compiler Demonstration** — View the actual difference between a compiled and an uncompiled program.

**Program Locator** — Find memory space information on a BASIC program.

**Variable Keeper** — Protect your variables and strings from the CLEAR and RUN commands.

**Greek Column Tutorial** — An illustrated article on Greek columns and an excellent example of CAI.

**Spelling Tutor** — A hi-res Hangman-like game with an editor for adding your own words.

**Doctor** — A trip to the doctor's office should be so inexpensive!

**Calendar** — Print or display a calendar for any month or year.

**Helioselene** — Of particular interest to astronomy buffs everywhere!

**Integer BASIC** — A free-standing version that doesn't need to be loaded into a RAM card.

**DOS Chopper** — Free up more data disk space by getting rid of DOS.

**Modem Program** — Never dial another number if you have this program and a Hayes Micromodem.

**Color Slot Machine** — An integer BASIC version of an old favorite.

**Guess It** — A guessing game with a difference!

**Tic-Tac-Toe** — The classic strategy game in hi-res graphics.

**Toccata & Fugue** — Another musical feast for the ears.

**Bowden's Adventure** — A hi-res game to enthral you.

**Hello! My Name is "Apple"** — Hear your Apple talk — with *no* speech card required!

## ISSUE #18 (Two 5.25" Disks)

**The Quest Demo** — A self-running demo of Penguin Software's hi-res adventure game.

**Recipe File 1.3** — Jim Ganz's perfect program for anyone who cooks.

**Saturn Shots** — A slide show of digitized hi-res photos from the *Voyager* fly-by!

**For Bird Brains Only** — The answers are all bird names in this *Games Magazine* quiz.

**Fast Hi-Res Erase** — Erase to any hi-res color, *not* just to black!

**INPUT Anything Demo** — Commas, colons, or quotes can be accepted with no problem!

**Interactive** — A tutorial on prompts and INPUT to improve your programs' user-friendliness.

**Multiplication Flash Cards** — A quiz which saves missed problems to disk for future review.

**Addition & Subtraction Drill** — A quiz which also saves missed problems to disk for future review.

**Lo-Res Painter** — Draw, store, and edit lo-res pictures with plenty of colors!

**Text File Reader** — Display or print any text file, sequential or random.

**Line Number LISTER** — List out all the line numbers in your program in four easy-to-read columns.

**Trace** — An ML routine which simulates the old monitor's "T" command for the autostart ROM.

**Apple II Copy** — A combination Applesoft tutorial and utility.

**Hi-Res Drawing** — Draw on the screen and save your pictures for later editing.

**MX-80 Print Modes** — Choose Epson print styles from an easy-to-use menu.

**IBM One-Liner** — A beautiful hi-res graphics display generated by only *one line* of Applesoft BASIC code.

**3-D Tic-Tac-Toe** — Play against the computer on a hi-res screen.

**Even Wins** — Try to win 32 times as your Apple gets smarter and smarter.

**One Foundation** — *Softdisk's* first hi-res solitaire game.

**Q&D Duet** — Jim Weiler's *Electric Duet*-compatible two-voice music editor program.

**Puzzle Corner** — Arrange 16 matches as five squares, or move two and get four squares.

**Back Issue Index** — All program files from the first 17 issues of *Softdisk* in one index.

**Q&D RAT** — A new and improved version which now reads all text files even better than before!

**21 PAL Programs** — Now we call them "Pipings".

## ISSUE #19 (Two 5.25" Disks)

**The Last One Demo** — A self-running demo of a program generator.

**Horseplay Quiz** — The third in a series from *Games Magazine*.

**Hi-Res Text Tutorial** — Learn how to put text on the hi-res screen.

**Nuclear Reactor** — You will discover that running a nuclear reactor is not easy at all!

**Function PLOT** — A useful educational program for plotting all kinds of functions.

**Citric Acid Cycle** — An unusual application for your Apple.

## ISSUE #19 (Continued)

**The Metric Clown** — Be entertained and learn the Metric system at the same time.

**Mini Quiz: Planets** — Find out just how much you know about the solar system we call home.

**Time of Your Life** — Receive an estimate of which factors affect your longevity.

**Typing Exerciser** — Do your finger exercises and start typing!

**Text Analyzer** — Let the computer evaluate the reading level of what you write.

**REMOVER** — Remove REM's to speed up and condense your programs.

**Sector Scan** — Display a map of your disk to your screen.

**Applesoft-to-Text Converter** — A converter which will prove useful for merging, editing, or sending by modem.

**Disk Modifier** — Change any byte of any disk sector.

**Graphics Display** — Let your Apple be the show-off it can be!

**Red Dog** — Play this Las Vegas-style game in the comfort of your own home.

**Snake Snack** — Keep your snake alive by making sure he has his snack.

**French Military Game** — A strategy game in which your computer learns from its mistakes.

**Page-Flipping Tutorial** — Learn how page-flipping can improve animation.

**For the Wee Ones** — An alphabet game for the little ones in your family.

**Muppet Movie Music** — Eight musical selections from the magical movie.

**12 PAL Programs, Hints, and Tips** — More of what we are now calling "Pipings."

## ISSUE #20 (Two 5.25" Disks)

**A Tip from Sandy** — Get some interesting results while learning to use lo-res graphics and text.

**Apple Hangman** — A multi-level version of the standard letter game.

**Vocabulary Flash Cards** — Expand your vocabulary the easy way.

**Keyboard Tutor** — A typing tutor which utilizes your hi-res screen.

**Checkbook Checker** — Get your checkbook in sync with the balance on your bank statement.

**Color Organ** — When you press a key, see a color and hear a sound!

**Master Program Index** — A program to help you keep up with all your *other* programs.

**CATALOG Organizer** — Sort your catalog and get rid of deleted files.

**Super-REM Plus** — Create custom REM statements.

**Variable Shorten** — Shorten variable names to two characters and speed up your program.

**Apple Simon** — A lo-res version of the popular electronic game.

**Apple Mastermind** — Try to guess the number the computer has chosen.

**Kalah** — An interesting game for you to play against the computer or a friend.

**Apple Kong** — A fast-action lo-res arcade game.

**Applesoft from the Ground Up, Part 1** — A tutorial by Dallas Snell, author of *The Quest* and *Ring Quest*.

**Classical Music** — Some easy-listening music for your enjoyment.

**Brian's Theme Plus** — This interesting variation will get your attention!

**Accounts Payable Quiz** — The fourth in the series from *Games Magazine*.

## ISSUE #21 (Two 5.25" Disks)

**Donkey or Elephant?** — Discover your *true* political leanings.

**Computer Vocabulary** — Learn computer-related terms with the vocabulary builder.

**Word Game** — A two-player anagram game.

**Home Ledger** — Keep track of your home accounts.

**Date List** — Let your computer keep track of your appointments.

**Sector Transfer** — Copy just the sectors you want with this utility.

**HRCG Editor** — Edit character sets created with HRCG and the DOS Tool Kit.

**Text Path** — Lead your text around.

**Zonker Bonker** — See if you can figure out the object of *this* game!

**Think Ahead** — Compete against the computer or a friend in this strategy game.

**Space Lander** — Land on an alien planet, but watch out for enemy missiles!

**Machine Magic, Part 1** — A new tutorial series on machine language.

**Applesoft from the Ground Up, Part 2** — Dallas Snell's Applesoft BASIC tutorial continues.



## ISSUE #22 (Two 5.25" Disks)

**Delay Routine** — A tutorial on the writing of a delay routine.

**Mountain Climb** — A fun way to practice your addition.

**The Mystery** — Only one word will help you: *beware!*

**Index of CATALOG Files** — Your computer will keep track of all the programs you have collected.

**Parapsychology Tester** — Find out if you have E.S.P.

**Gas Mileage** — Figure out how economically you are running your car.

**Ard's Screen Maker** — A utility for creating interesting-looking text screens.

**Cosmic Hangman** — An arcade game with a difference!

**Submarine War** — Sink the enemy sub.

**Maze** — Wend your way through an intriguing maze.

**Apple Sketch** — Sketch your pictures on the screen, then save them to disk.

**FIDget** — An improved version of FID.

**Machine "Magic", Part 2** — Our tutorial on machine/assembly language continues.

**Applesoft from the Ground Up, Part 3** — Our Applesoft BASIC tutorial continues.

## ISSUE #23 (Two 5.25" Disks)

**Hi-Lo** — View your lo-res pictures in print.

**Blip Is the Blap of Bleep** — An opportunity for you to create your own aphorisms.

**Edison** — A new computer language.

**AppleWait** — A tutorial about a helpful machine-language routine.

**AUTOnumber** — Save yourself from the drudgery of line number entry.

**Text-Tricks** — Spice up your screen display with this set of programs.

**F-Solitaire** — Shuffle the computer cards and try to win.

**Applogic** — Use logic to guess five-letter words.

**Animated Anagrams** — Watch hi-res letters move, but remember: you must guess the word.

**Evolution** — Two versions based on Conway's **Game of Life**.

**Factors** — Compute the integral factors of a number.

**Right Triangle** — Review finding any side in a right triangle.

**Equipment Inventory** — Keep track of all your equipment.

**Package Mailing Labels** — Print labels for packages in two different sizes.

**Machine Magic, Part 3** — Our tutorial on machine/assembly language continues.

**Applesoft from the Ground Up, Part 4** — Our Applesoft BASIC tutorial continues.

## ISSUE #24 (Two 5.25" Disks)

**Auto Program** — Write a menu-driven program in half the time!

**Hi-Res Image Mover** — Move an image around on hi-res page one.

**Display Variables** — Display variable names *and* values in your BASIC program.

**NIM** — A hi-res version of the old favorite that is really hard to beat!

**Rat Maze** — Find out what it is like to be a rat.

**Blackjack** — Your Apple might win the shirt right off your back!

**Killer Bat** — A chiller for Halloween, or any other time!

**Dungeon of ARBEGLA** — An adventure game you can really learn something from.

**Language Flash Cards** — Learn Spanish, French, Hawaiian, or another language you don't know.

**Charge** — Find out what it feels like to be a particle in an accelerator.

**Family Budget** — Keep track of your expenses.

**Flexible Amortization** — A program to tell you if you can afford to buy your dream house.

**It's a Small World After All** — All this, and music and graphics, too!

**Machine Magic, Part 4** — The machine/assembly language tutorial continues.

**Applesoft from the Ground Up, Part 5** — The Applesoft BASIC tutorial continues.

## ISSUE #25 (Two 5.25" Disks)

**CATALOG Tool** — A utility for making professional-looking CATALOGs.

**CATALOG Printer** — Make the printed CATALOG look just as fancy as the screen version.

**RAM Disk** — Now you can have a small *extra* drive!

## ISSUE #25 (Continued)

**Cycle Jump** — Try to jump your cycle as far as possible — before crashing!

**Monte Carlo** — One of the best solitaire games around.

**Linear Grapher** — Plot and analyze linear equations.

**Basic Math** — Get ready for a surprise with this math drill.

**Countries & Capitals** — Your atlas will probably come in handy in this geography drill.

**Alarm Clock** — Transportability is *this* clock's only problem!

**Strobe Light** — Discover that your Apple is *almost* as good as a \$200 xenon strobe.

**Notebook** — A personal notebook that never runs out of paper!

**Glue Guide** — Learn which glue works best with what.

**Coupon Manager** — Keep track of store coupons the easy way.

**Christmas Music** — Make your Christmas season brighter!

**Machine Magic, Part 5** — The conclusion of our tutorial on machine/assembly language.

**Applesoft from the Ground Up, Part 6** — The conclusion of our tutorial on Applesoft BASIC.

## ISSUE #26 (Two 5.25" Disks)

**Notebook** — A unique program which saves data by modifying itself.

**Built-In Base Converter** — Convert decimal to hex without leaving your program.

**Significant Digits** — Line up decimal places in numerical data perfectly.

**DOS 'n' Stuff, Part 1** — A tutorial series about writing on and reading a diskette.

**History of the Computer, Part 1** — A humorous spoof on the origin of the computer.

**Sandy's Laws** — Murphy's Laws applied to home computers.

**Household French** — A pictorial lesson.

**Trap** — Be quick with your paddle and avoid moving walls.

**Breakout** — A fast machine language version of the popular game.

**The Heaven Hunt** — Find out if you know your Bible as well as you think you do.

**Stocks** — Get your portfolio in order and save data to disk as well.

**Calendar** — Print a calendar for any month since 1753 on printer or screen.

**Softdisk Envelope Maker** — Cut and paste your own disk envelope with hi-res pictures.

**Touch Typing Tutor** — A much better approach to improved keyboard skills than Typing 101!

**Function Keys** — Your Apple can have function keys, too.

**Variable Display** — View all variable values after RUNNING your program.

**Disk Edit** — A useful disk utility from Chad Adams.

**Program Menu** — A self-modifying menu program.

**Sounds of Apple** — Some great music created the Apple way.

**Back Issue Database (1983)** — A listing of all programs in 1983 issues of *Softdisk*.

## ISSUE #27 (Two 5.25" Disks)

**Poker Solitaire** — Play several interlocking poker hands at once.

**Concentration** — A version of the popular match-the-squares TV game show.

**Twenty Easy Pieces** — A hi-res jigsaw puzzle.

**Fiver Dicer** — A Yahtzee-like computer game.

**Diet Program** — Weight schedules based on calories, activity, weight, and other variable factors.

**Fact Sheet** — A friendly Rolodex-like filing system.

**Cosmic Rebound** — A lo-res graphic novelty to amuse you.

**Copy +** — An improved version of Apple's COPYA.

**Doctor Dave** — An educational program for learning the parts of speech.

**Gas Law Problems** — An educational chemistry program.

**Flip-Spin-Twisties** — Dress up your screen with flipping batons a la Beagle Bros.

**General Ledger Tutorial, Part 1** — Write your own general ledger system.

**Random-Access Files Tutorial** — How to build your own disk files.

**Q&D Track Copier, File Overlap Checker, and Disk Scanner** — Use these utilities when a disk goes bad!

**FatCAT** — Increase the number of files allowed on a disk's CATALOG.

**DOS 'n' Stuff, Part 2** — The DOS 3.3 tutorial continues.

**History of the Computer, Part 2** — Our humorous history spoof continues.

## ISSUE #28 (Two 5.25" Disks)

**Time Bomb** — A timed "which came first" quiz game.

**Light Racers** — A two-player game based on an idea from the movie "TRON."

**Chomp** — A two-player game similar to **NIM**.

**Flash Cards** — A flashy hi-res math drill for students in lower grades.

**Calculus Plotter** — A very powerful tool for producing graphical plots of mathematical functions.

**Reading Analysis** — Use the Gunning Fog index to determine the reading level of text material.

**Secret Stuff** — Keep a diary on your Apple that only you can read.

**Anti-Scroll** — Add an automatic "pause until keypress" to any program.

**HCATALOG Sort** — Quickly alphabetize your disk catalog.

**Q&D Disk Compare** — Check two disks byte-for-byte for similarities or differences.

**Q&D Page Display** — View memory in either ASCII or hex under joystick control.

**Personality Test** — Tell the doctor your favorite colors and he will tell you all about yourself.

**AutoSound** — Add sound to almost any Applesoft BASIC program.

**LIST Messers** — A good-for-nothing Apple quirk!

**Apple Jam** — A reversal of **Apple Juice**.

**General Ledger, Part 2** — The business programming tutorial continues.

**History of the Computer, Part 3** — Our humorous history spoof continues.

## ISSUE #29 (Two 5.25" Disks)

**Middle Earth Quiz** — A delight for all Tolkien fans.

**Family Tree Surgeon** — Trace your roots — your genealogical roots, that is.

**Hi-Res Image Mover** — A graphics tool which rivals higher-priced ones.

**Hungarian Light Show** — View these images and decide on your own description.

**Double Talk** — Record voices and music on disk and play them back from BASIC.

**Tri-Solitaire** — A hi-res card game for all solitaire buffs.

**Answer Sheet Generator** — The answer to a teacher's prayer!

**Message Center** — A valuable disk-based bulletin board system.

**Braille Writer** — Mental stimulation for the sight impaired.

**Hex Window** — Perform decimal-hex conversions without leaving your program.

**Screen Design Tool** — Bat out the "look" of a screen before your program it.

**Saint Pat** — Timely music of the green.

**VisiCalc 1040 Template** — A helpful utility, deductible on your 1040!

**BASICgraph** — Generate bar and pie charts with this utility, courtesy of *Softalk Magazine*.

**T-Dump** — Add a new command to DOS to dump text files anywhere at any time!

**General Ledger, Part 3** — Our tutorial on business programming continues.

**DOS 'n' Stuff, Part 3** — The DOS tutorial continues.

**History of the Computer, Part 4** — Our humorous history spoof continues.

## ISSUE #30 (Two 5.25" Disks)

**Stress Test** — Let Drs. Holmes and Masudu compute your social re-adjustment factor.

**Apple Detective** — An Apple version of "Clue."

**Loan Planner** — A much better method than those little books filled with numbers.

**Vocabulary Builder** — Prove that "words are power" is true.

**Typing Tutor** — Improve both the speed and accuracy of your typing.

**Ocean of Life** — An analysis like this one could cost thousands of dollars!

**Ledger** — Tame your expenses and document your income.

**Order Blank** — Produce your own customized order blanks.

**Sector Editor** — Programmers can certainly use this utility!

**Factor Polynomials** — An aid for algebra students.

**Crypto Helper** — A puzzle-solving tool for cryptogram lovers.

**High Score** — Keep track of who scored what when.

**Popcorn Billboard** — Place an attractive, large-type message on-screen.

**Slot Machine** — A lo-res one-armed bandit.

**Minotaur** — Navigate a maze and grab crystals while avoiding the Minotaur.

**Softy Says** — You better do what he says, too!

## ISSUE #30 (Continued)

**Burton's Music** — Four different two-voice compositions.

**General Ledger, Part 4** — The tutorial on business programming continues.

**DOS 'n' Stuff, Part 4** — Our DOS tutorial continues.

## ISSUE #31 (Two 5.25" Disks)

**Stock Market Crash** — A game so realistic you might be tempted to jump out the window — but don't!

**Computer Roulette** — Basic training for your trip to Las Vegas.

**Take Thirteen** — Another super solitaire game using Paul Zelman's hi-res deck.

**Flag Hunt** — Finding a hidden flag is more difficult than finding Easter eggs.

**Rate Exchange** — Print out an up-to-the-minute money exchange chart.

**Notepad I.D.** — Satisfy your human need for order and organization.

**Prescription Expenses** — An aid to better prepare you for April 15.

**Print Modes** — Discover *all* the features of your printer with this program originally designed for the Gemini 10-X.

**BASIC Transitions** — Put an end to boring slide shows.

**Q&D PrintAll** — Print out all sequential text files from *any* DOS disk automatically!

**Monster Lair** — Enter a maze forty times bigger than your screen!

**File Wizard** — A handy tool from Gary Bond.

**General Ledger, Part 5** — An inadvertent duplication of Part 4 in this series.

**DOS 'n' Stuff, Part 5** — An inadvertent duplication of Part 4 in *this* series!

## ISSUE #32 (Two 5.25" Disks)

**Millennium Leaper** — Prove our contention that this game is in the same league as **Donkey Kong**.

**Three Musketeers** — An original card game using Paul Zelman's famous card shapes.

**U.S. War** — In this East-against-West conflict, it helps to be Napoleon reincarnated.

**Times Table Tutor** — A multiplication drill featuring sound, color, and giant numbers.

**Geometry Quiz** — You may discover that today's high school tests are not what they used to be.

**Marginal Tax Bracket** — Tax estimation and interest rates on taxable and untaxable investments.

**Job Preference** — An occupational guidance tool.

**Day's Slide Show** — All interesting art is not in the art museum!

**DOS 'n' Stuff, Part 5** — The DOS tutorial continues — *really!*

## ISSUE #33 (Two 5.25" Disks)

**Olympic Directory** — "Track" the events and compare the 1984 winners with those in 1980.

**Olympic Pinball** — A fine example of a game created with Bill Budge's **Pinball Construction Set**.

**Grade Book** — Store data for up to 100 students and 60 tests!

**Data Master** — Graph numeric data to your hi-res screen, and dump it to most graphic printers.

**Weights & Measures** — A program to replace your entire reference library on the subject!

**Heat Stress** — Prove that humidity can make it seem hotter than it really is.

**Mastermind** — The computer version of the popular logic-puzzle game.

**Picture Runner** — Save a hi-res picture so it will present itself automatically when BRUN.

**Grappler + Dumper** — An aid for dumping pictures with the Grappler printer interface.

**Q&D CATALOG Label Printer** — Print your entire CATALOG onto a diskette label in tiny letters.

**General Ledger, Part 5** — The tutorial on business programming *really* continues!

**DOS 'n' Stuff, Part 6** — The DOS tutorial continues.

## ISSUE #34 (Two 5.25" Disks)

**Snake Duel** — Navigate your snake through a maze without letting the *other* snake bite you!

**Yacht** — A fine computer version of **Yahtzee**.

**Reel Facts** — A collection of Academy Awards facts for the true movie fan.

**On This Date** — Your Apple remembers almost any historical date you can come up with.

**National Anthems** — A dozen hi-res national flags complete with music.

**Surprise** — We all wonder what lies beyond a closed door.

**Tads** — A fundamental math drill.

## ISSUE #34 (Continued)

**Number Conversion Tutorial** — Computers have 16 digits, all comprised of 0's and 1's.

**General Ledger, Part 6** — The business programming tutorial continues.

**DOS 'n' Stuff, Part 7** — The DOS tutorial continues.

## ISSUE #35 (Two 5.25" Disks)

**Spelling Drill** — Improve your spelling skills and receive an "A" as in "Apple".

**Home Inventory** — Keep a record of your possessions for insurance, warranty, and other good reasons.

**Babysitter's Notes** — Yet another task your Apple can help you with!

**Baseball Adventure** — The gate proceeds are hidden somewhere in the stadium!

**Connect-a-Disc** — Crank up your brain and think ahead in this teaser.

**Take-Ten** — A fun solitaire game using Paul Zelman's hi-res card shapes.

**The Great Gamble** — Not as much fun as Las Vegas, but not as expensive, either!

**Nutrition Facts** — Consider these facts when you design your diet.

**Cosmic Calculator** — A "circle-area" key is one your handheld calculator doesn't have!

**Tell Time** — Teach tots how to tell time the old-fashioned "big hand/little hand" way.

**Population** — A statistical projection program.

**Temperature Converter** — View your conversions in graphic form.

**PRINT Craziiness** — A printer setup program for Epson and work-alike printers.

**Day's Slide Show #2** — You will surely agree that Day is a real artist!

**Family Tree Revisited** — An improved version of our previously-published genealogy program.

**General Ledger, Part 7** — The tutorial on business programming continues.

## ISSUE #36 (Two 5.25" Disks)

**Alfredo's Lost Cause** — The adventure which inspired a later series of computer-animated cartoons.

**Olympic Tribute** — A pictorial tribute to the 1984 Los Angeles Summer Olympics.

**Spelling Drill** — Another entry in a continuing series of seemingly-impossible words to spell.

**Nominee '84** — Find out if you have the right stuff to lead our nation.

**Othello** — A lo-res version of the popular board game that's hard to beat!

**Bingo** — Throw an Apple bingo party without worrying about losing cards or numbers.

**Jeepers** — Avoid being stomped by the jeepers, creepers, and devils in this different arcade challenge.

**Positive Person** — Find out just how positive your outlook on life really is.

**Visible Bubble Soft** — See a sort in action and learn to write one of your own programs.

**Little Black Disk** — Throw away your little black book.

**Checkbook Balance** — Figure out exactly where all your money went!

**Array Display** — A great debugging utility which can list all the string and real variables in your program.

**McKnew's "HELLO"** — A completely automated program to allow easy one-key selection of other programs.

**UnNEW** — Recover a program accidentally lost by NEWing.

**File Encoder** — Encode your files to allow only authorized persons to access them.

**DOS 'n' Stuff, Part 8** — Our DOS tutorial continues.

## ISSUE #37 (Two 5.25" Disks)

**Golf** — Get out your clubs, then drive and putt to your heart's content.

**Slime** — Save the earth from its destruction by ravaging slime.

**Q&D Fer Sure Init** — Initialize your disk and lock out bad sectors.

**Election Night** — Have the same chance as the newscasters to forecast the Presidential election results.

**Library Adventure** — Explore the planet of Librarium in this unique adventure game.

**Snoopy Calendar** — The perfect combination for the start of a new year: a new calendar and Snoopy!

**Wind Chill** — Find out how cold it feels in spite of the temperature reading.

**Needlework Calculator** — A must for those who do cross stitch, needlepoint or latch hook.

**AmperHelper** — Use the "&" statement to make your life easier.

**Santa Ball** — A pinball game with a Christmas theme!

## ISSUE #37 (Continued)

**Santa Story** — Re-live an old favorite on your Apple.

**Number Conversion II** — Learn to convert numbers in machine language in this tutorial.

**Graphics Fantasies 1** — The start of a tutorial series on graphics and sound programming.

**Spelling Drill** — Another chance to improve your spelling.

**Dabble** — Improve your vocabulary and spelling skills and have fun at the same time.

**General Ledger, Part 8** — The business programming tutorial continues.

## ISSUE #38 (Two 5.25" Disks)

**Lair of the Necromancer** — Destroy the evil Necromancer and win fortune in this adventure.

**Recollect** — The *Softdisk* way to play Trivia.

**Satellite TV** — Everything you ever wanted to know about choosing a satellite antenna.

**Branch Lister** — A utility which cross-references GOTOs, GOSUBs, and other branches.

**Disassembled to Text** — Capture an ML program in a text file for easy editing.

**Electric Zoo** — Type in your name and — *voile!* — strange animals appear on the screen!

**Kindergarten Keyboard** — A youngsters' introduction to the keyboard and colors.

**Farkle** — An unusual dice game for up to six players.

**BananaSmusher** — Clear the fruit off three levels and you'll win this lo-res arcade game.

**Keyboard Invasion** — Shoot down attacking letters in this multi-level game.

**ML Twisties** — No programmer should be without this collection of machine language cursors.

**Spelling Drill** — More spelling words to challenge your ability.

**Dabble** — Accept the challenge of unscrambling letters to spell words.

**Name Them Tunes** — Test your ability to recognize musical selections in this two-player game.

**Graphics Fantasies, Part 2** — The graphics and sound tutorial continues.

**General Ledger, Part 9** — The business programming tutorial concludes.

**DOS 'n' Stuff, Part 9** — The DOS tutorial continues.

## ISSUE #39 (Two 5.25" Disks)

**Fiddler on the Disk** — Listen to square dance music and learn about some of the instruments used.

**Q&D CAT Tool** — Organize and customize disk CATALOGs.

**Carol Day's Slide Show #3** — Another great collection of hi-res pictures from a very talented artist.

**Q&D Gemini Stuff** — Get help in setting up your Gemini 10-X printer and in downloading customized fonts.

**Scrambled Words** — Choose a category, then unscramble letters to spell related words.

**Spelling** — Enter your own word list and master it with the help of your Apple.

**The Big Balance** — A unique quiz game in which knowledge tips the scales of balance.

**Counted Cross Stitch** — Eight new patterns which can be adapted for needlepoint and other uses.

**DOS 'n' Stuff, Part 10** — The DOS tutorial continues.

## ISSUE #40 (Two 5.25" Disks)

**Poe Adventure** — Reading Edgar Allen Poe gives you an edge in this adventure.

**Heart Beat** — Your Apple explains what those squiggly lines on the EKG heart monitor mean.

**Apple Piano** — Use a hi-res keyboard to create music for your own BASIC programs.

**Packer/Unpacker** — All the details on how to pack and unpack hi-res pictures.

**Waves** — Graph six trigonometric functions on a hi-res screen.

**Cassette Labels** — Make custom audio cassette box labels on your printer.

**Read CATALOG** — Place your DOS CATALOG into a text file which can be read from BASIC.

**Hangman** — A version of the popular word game to which you can add your own word list.

**BFile Modifier** — Search and change bytes in a binary ("B"-type) file.

**Memory Dump** — See what is really going on inside your Apple.

**Blockout** — Win this two-player game by building a wall around your opponent.

**Transcript Evaluator** — A useful tool for all educators.

**Recollect** — Test your memory on TV shows and literary works.

**Buss' Slide Show** — A collection of seven beautiful hi-res pictures for you to enjoy.

**Dabble** — Improve your vocabulary and have fun with this new group of words.

## ISSUE #41 (Two 5.25" Disks)

**Aviation Software Reviews** — Reviews and demos of flight planners and simulators.

**Basketball Stats** — Figure free-throw percentages, performance figures, and more!

**State Quiz** — A quiz that's for the birds — state birds, that is!

**Case Converter** — Write UPPER and lowercase instructions that can be read on any Apple.

**Digit Game** — Use clues to solve this game of deductive logic.

**Box Puzzles** — Solving these puzzles depends on how you look at them.

**IQ Test** — Common sense counts for more than a degree in this test!

**Absentee List Printer** — A helpful print utility for any school secretary.

**Printer Style** — A set-up program for a variety of printers, including the ImageWriter and ProWriter.

**Breakout II** — Change the colors to suit your mood in this version of an old favorite.

**Life Expectancy** — Your Apple may know something you don't — like how long you may live!

**MathFacts** — A timed drill and practice in addition and subtraction just perfect for youngsters.

**All About Apples, Part 1** — A new series on advanced programming techniques.

**Graphics Fantasies, Part 3** — The graphics and sound programming tutorial continues.

**DOS 'n' Stuff, Part 11** — The DOS tutorial — including Part 1 of **Bits 'n' Bytes** — continues.

## ISSUE #42

**Blast** — Use your joystick to maneuver and blast the alien ships.

**Spellbound** — A flashcard-type spelling drill which really tests your spelling abilities.

**Plus Tax** — Figuring sales tax does not have to be a bother.

**Q&D File Compare** — Find out if two versions of the same file are identical.

**Bugs** — The little creatures are out to get you in this two-level game.

**Road Map** — Your road construction skills are put to the test in this challenging two-player game.

**Window Words** — Test your knowledge of the parts of speech.

**Trivial States** — Find out how much trivia you know about the state in which you live.

**Typewriter** — With your Apple, a printer, and this program, you won't need a typewriter!

**Print Shop® Envelopes** — Print envelopes for the nice cards Brøderbund's Print Shop program produces.

**ALGAE** — "Averaging Letter Grades Accomplished Easily" frees teachers for important work!

**BASIC Programming Forms** — Plan your text, lo-res, and hi-res screens out in advance.

**Music of Erin** — A musical salute to the Irish accompanied by pictures.

**All About Apples, Part 2** — The series on advanced techniques continues.

## ISSUE #43 (Two 5.25" Disks)

**Aces Up II** — Another great solitaire game from Paul Zelman!

**Flexi-Graph** — Display all sorts of information on your screen — *fast!*

**Foil Theory** — Learning about binomials is easy.

**CATALOG Sort v2.0** — Alphabetize your CATALOGs even faster with this improved version.

**Rainbow Game** — Try to place four different colors in a row.

**Cardio-Pulmonary Resuscitation** — A multiple-choice test for a review of CPR procedures.

**Rhymer** — Find a word to rhyme with almost anything!

**Custom Characters** — Create your own custom character sets for your printer.

**Make Disk DOSless** — A utility for freeing up extra space on your data disks.

**Astronomy Programs** — A collection of *fourteen* programs for aspiring Carl Sagans.

**Alfredo's Transport Troubles** — Part one of the second of Alfredo's animated adventures.

**Mathematical Reflections, Part 1** — A new advanced math series.

**Bits 'n' Bytes, Part 2** — The tutorial on advanced topics continues as a separate series.

**All About Apples, Part 3** — The series on programming hints and tips continues.

**Graphics Fantasies, Part 4** — The graphics and sound programming tutorial continues.

**DOS 'n' Stuff, Part 12** — The DOS tutorial continues.

## ISSUE #44 (Two 5.25" Disks)

**Forest Fire** — Water and firebreaks are your only tools to put out this lo-res forest fire.

**WordSearch** — Create your own word-search puzzles for school or just for fun.

## ISSUE #44 (Continued)

**Print Shop® Graphics Library** — Twenty-four new Print Shop graphics, including "Q&D PS Imager."

**Product Reviews** — Twelve product reviews, including Penguin Software's **Sword of Kadash**.

**Yahtzee** — Watch the dice roll and choose wisely to get the best score.

**Quik-Kalc** — See how well you can add numbers in your head in this hi-res drill workout.

**Animal Personality** — Find out if there is an "animal" hidden in your personality.

**Zoo Picture Maker** — A printer routine for **Electric Zoo** which can also print any binary text screen.

**Music Cassette Label Maker** — A specialized program for special needs.

**HELLO Customizer** — A HELLO program that could double as a menu program.

**Border Maker** — Add interest to your instructions and title pages.

**Holy Moses** — Find out just how well you know the Ten Commandments.

**Alfredo's Laser Lament** — The conclusion of the animated cartoon, **Alfredo's Transport Troubles**.

**Mathematical Reflections, Part 2** — The advanced math series continues.

**Bits 'n' Bytes, Part 3** — The series on advanced topics continues.

**All About Apples, Part 4** — The series on programming hints and tips continues.

**DOS 'n' Stuff, Part 13** — The DOS tutorial continues.

## ISSUE #45 (Two 5.25" Disks)

**Necromancer's Revenge** — A sequel to **The Lair of the Necromancer**.

**Q&D Lesser Text** — Read "All About Apples" to learn how to put text on the hi-res screen.

**Poker Squares** — A card game which can be played competitively or solitaire-like.

**Compsort** — A comparison of sorts — eight different sorting routines, that is.

**Alfredo's Digestive Dilemma** — The third in our series of computer-animated cartoon adventures.

**Gobble** — A timed grid-word game for the whole family.

**Jupiter** — Plot and learn about the moons of the great planet!

**MegaBucks** — Pick lottery numbers and learn about random numbers.

**Lo-Res Graphics Utilities** — A lo-res drawing program and a lo- to hi-res picture converter.

**Recollect** — Some new, challenging trivia questions for you.

**Print Shop® Graphics** — A new collection of graphic images from our artists.

**We're Being Nosey!** — We want to know all about *you* and your Apple!

**Mathematical Reflections, Part 3** — The advanced math series continues.

**Bits 'n' Bytes, Part 4** — The series on advanced topics continues.

**All About Apples, Part 5** — The series on programming hints and tips continues.

**DOS 'n' Stuff, Part 14** — The DOS tutorial continues.

## ISSUE #46 (Two 5.25" Disks)

**Mr. Machine** — Predict winners and track scores in this football program.

**Moon Buggy** — Rescue scientists who have been stranded on the moon.

**Triple Trivia** — Convert your trivia questions into a new game.

**Geometry Formulas** — *Twenty-three* formulas for finding area, volume, and other information.

**Palindrom Squares** — A cute novelty to entertain you.

**Diamond Draw** — A utility for making hi-res drawing easy.

**Alfredo's Crushing Curiosity** — The fourth in our series of animated cartoon adventures.

**Hype Adventure** — Mountains, pirates, and lots of fun await you!

**Print Shop® Graphics** — Fourteen new designs by **Softdisk** artists.

**Crypto Solver** — A *must* for all cryptogram fans!

**All About Apples, Part 6** — The advanced programming series continues.

**Bits 'n' Bytes Part 5** — The advanced topics series concludes.

**DOS 'n' Stuff, Part 15** — The DOS tutorial continues.

## ISSUE #47 (Two 5.25" Disks)

**Movie Mogul** — Choose the right script and actors, and make millions in the movies!

**Arms Race** — Find out how well you can plan expenditures in the arms race.

**Risky Roller** — A dice game in which strategy is the difference between winning and losing.



## ISSUE #47 (Continued)

**Test Patterns** — Following logical rules is easy — *if* you can find them!

**Multiplication Helper** — Test your basic knowledge of multiplication.

**Ancient Greek History** — An easy Greek history lesson the hi-res way.

**Formula and Molecular Masses** — The perfect program to help you with your next chemistry assignment.

**Alfredo's Whopping Wattage** — The fifth in our series of animated cartoon adventures.

**Elections** — Register, vote, and tabulate the results in school elections.

**Alphabet Game** — A fun game for youngsters and Mockingboard owners.

**Print Shop® Graphics** — More graphics designs sent in by subscribers.

**Apple DMP Print Modes** — A printer set-up program for the Apple DMP printer.

**Printer Behave** — A printer set-up program for the MX-100.

**Mathematical Reflections, Part 4** — The advanced math series continues.

**All About Apples, Part 7** — The advanced programming series continues.

**DOS 'n' Stuff, Part 16** — The DOS tutorial continues.

## ISSUE #48 (Two 5.25" Disks)

**The Phrase that Pays** — A game that is more fun, though less lucrative, than "Wheel of Fortune."

**Cribbage Squares** — Let the computer be your partner and have a hot game!

**Bubble Sort Demo** — Watch an Apple sort routine in action.

**The Envelope, Please** — Make envelopes to fit your Print Shop® cards.

**The Price Is Right** — Determine the right price for your merchandise in this *non-game* program.

**ASCII X-Ray Machine** — Scan your Apple's memory forward or backward in either hex or ASCII.

**Matter of State** — Test your ability to recognize U.S. states in silhouette.

**Alfredo's Fiery Fiasco** — The sixth in our series of animated cartoon adventures.

**America's Past Time** — Test your knowledge, not of baseball, but of American history.

**World Series Trivia** — The Series themselves are not trivial, but some facts about them are!

**Ok! Setup** — A set-up for Okidata printers.

**Grappler Dumper** — Make your Grappler™ card dump graphics to your printer.

**The Comet Cometh** — All you ever wanted to know about Halley's Comet.

**Print Shop® Graphics** — Each and every image this month is a contest winner!

**Machine Language Spoken Softly, Part 1** — A new machine language tutorial series.

**All About Apples, Part 8** — The advanced programming series continues.

## ISSUE #49 (Two 5.25" Disks)

**Christmas Jukebox** — Eleven seasonal tunes with appropriate pictures.

**Missing Link** — Another top-notch solitaire card game from the master, Paul Zelman.

**Alfredo's Hulking Hubris** — The seventh in our series of animated cartoon adventures.

**Subscriber Reviews** — Read opinions about **FX 85**, **Phantasie**, **Math Worksheets**, **Videx AW**, **Plus Works**, and **D Code**.

**Print Shop® Images** — Twenty-two fresh and new graphic images for your Print Shop collection.

**Bowmen** — Try to defeat your arch enemies — the *other* bowmen!

**Big Ernie** — Answer correctly and help Ernie make it across the canyon.

**Runner's Log** — Log — and *remember!* — jogging times for different dates and distances.

**REMOVER Plus** — Strip out all REMs in your BASIC program and speed up its execution.

**The Price Is Righter** — A modern replacement for last month's now-archaic markup algorithm.

**Computer Eyes** — An in-depth look at a new image digitizer.

**Halley Horizons** — A graphic illustration of Halley's progress through the heavens in '86.

**Machine Language Spoken Softly, Part 2** — The machine language tutorial series continues.

**Mathematical Reflections, Part 5** — The advanced math series continues.

**All About Apples, Part 9** — The advanced programming series continues.

## ISSUE #50 (Two 5.25" Disks)

**Wormshot** — Blast the vermin out of the sky before they devour your meteor shield.

**Print Shop® Images** — A baker's dozen of more graphic images for your Print Shop library.

## ISSUE #50 (Continued)

- Tough Guy's IQ Test** — Find out how smart you are with this adaptation of the Mensa tests.
- Dungeon of the Dragon** — Rescue prisoners trapped in time by answering the Wizard's riddle.
- Halley's Solar Sojourn** — Coverage of Comet Halley's visit continues with the big picture.
- Moebius Review & Demo** — An exciting overview and demo of Greg Malone's newest role-playing adventure.
- Observation** — A variation of the familiar "Concentration" game.
- Network** — A two-player hi-res strategy game
- Tomato Therapy** — Fill your screen with a kaleidoscope of novelty graphics.
- Hi-Res Image Mover** — Reverse images left to right, then iron them onto your T- shirts!
- Print Shop® Image Flipper** — Flip Print Shop images from left to right.
- Secret Stuff Decoder** — Decode cryptograms with ease!
- Back Issue Index** — An in-depth look at last year's issues.
- Mathematical Reflections, Part 6** — The advanced math series continues.
- All About Apples, Part 10** — The advanced programming series continues.
- DOS 'n' Stuff, Part 17** — The DOS tutorial concludes.

## ISSUE #51 (Two 5.25" Disks)

- Life** — A simulation game that shows how bacteria colonies grow according to three rules of survival.
- Bingo Construction Set** — This program and your Apple are all you need to host your very own bingo game.
- Double Solitaire** — Play a friend or your Apple in another of Paul Zelman's card games.
- No-Res Hangman** — Guanozap Software's thrilling version of the old standby.
- Alfredo's Nuclear Nuisance** — The eighth in our series of animated cartoon adventures.
- Subscriber Reviews** — Check out opinions of **Felony!**, the **ImageWriter II**, **Adventure Construction Set**, **Fontrix**, and more!
- Print Shop® Images** — "Celebrities" is the theme of this month's fifteen new graphics images.
- Self-Evaluation** — Analyze your own attitudes on drinking and driving, and perhaps save a life — *yours!*
- Freddy the Frog** — Join Freddy in the meadow and help him unscramble the letters.
- The Voting Game** — An illustration of how a random sequence can produce an inevitable result.
- Screen Test** — Part 1 of a series on animated graphics development.
- Vortex II Pinball** — Dare the maelstrom with nimble fingers, quick wits, and your trusty joystick.
- Machine Language Spoken Softly, Part 3** — The machine language tutorial series continues.

## ISSUE #52 (Two 5.25" Disks)

- Wally Wabbit's Cartoon Studio** — Part 2 of a series on animated graphic development.
- Periodic Table** — Acquaint students with the tool for understanding basic chemical concepts.
- Custom Drive & DOS** — Find out if your drive can read more than the usual 35 tracks.
- Softgraph II** — A powerful home and business program which creates professional pie, bar, and line charts.
- Print Shop® Images** — Twenty-six images on a "menagerie" theme.
- Area Code Finder** — Find the location of any area code, or print a directory of all area codes.
- Subscriber Reviews** — Check out opinions on **Print Shop Companion**, **Bard's Tale**, **Cricket**, **Notcher**, and **Stalom**.
- The Phrase That Pays** — Our encore of one of your favorites!
- Teacher Utilities** — Teachers, create and administer tests *entirely* on your computer!
- Machine Language Spoken Softly, Part 4** — The machine language tutorial continues.

## ISSUE #53 (Two 5.25" Disks)

- Gallerie d'Art** — This month's exhibit focuses on the Spanish painter El Greco.
- Choreographer's Corner** — Part 3 of a series on graphics animation development.

## ISSUE #53 (Continued)

**Hi-Res Printing** — Mix text and graphics on the same screen by sending text to the hi-res screen.

**Alfredo's Mortiferous Mortality** — The ninth in our series of animated cartoon adventures.

**Wordsmith** — Test your vocabulary in this challenging word game.

**Through the Looking Glass** — Explore the subtle ways computers are changing our society.

**Print Shop® Images** — Add this potpourri of beautiful images to your Print Shop library.

**Old MacDonald's Farm** — A fun way for pre-schoolers to learn how to count.

**Watch Your Language** — Create hilarious mixed-up stories by supplying information before knowing the plots!

**Memo Writer** — Place your input into memo format automatically.

**Subscriber Reviews** — Check out **Archon II**, **Bard's Tale**, **Copy II**, **Sensible Grammar**, and more!

**Q&D Tiny Menu** — A simple, easy-to-use, SMALL menu program.

**Biology 101** — A general biology quiz.

**Runner's Graph** — Keep track of your running progress month by month.

**Word Puzzle Generator** — Create your own "hidden word" puzzles.

## ISSUE #54 (Two 5.25" Disks)

**Haunted House** — Strange, dangerous creatures prowl the corridors of a not-so-deserted mansion.

**Knockout Trivia** — A trivia-twist game which pits you against Rocky Robot in a fight to the finish.

**Mental Math** — Challenging practice for youngsters in increasing speed in math calculations.

**A Capital Idea** — An aid for children in learning the U.S. states and capitals.

**Galerie d'Art** — Reproductions of and a commentary on the works of M. C. Escher.

**Wally Wabbit's Cartoon Studio** — The final installment of the tutorial on the creation of animated sequences.

**Through the Looking Glass** — Discover how your perceptions of computers are changing.

**Auto Menu** — Make changes to your menus without tedious programming.

**All-Base Calculator** — Add, subtract, multiply, and divide two numbers in various bases.

**Potato Therapy** — A series of beautiful, constantly evolving patterns to calm your nerves.

**Print Shop® Images** — More beautiful images for your Print Shop Library.

**Spelling Analyzer** — An effective way for students to improve their spelling skills.

**Fall Out** — Maneuver rows of sliding blocks to undermine your enemy's positions.

**Oo-Topos Demo** — The latest and greatest hi-res adventure game available from Penguin Software.

**Arithmatutor** — An educational program for the improvement of the young student's addition skills.

**Machine Language Spoken Softly, Part 5** — The machine language tutorial series continues.

## ISSUE #55 (Two 5.25" Disks)

**The Tough Guy's IQ Test, Mark II** — A tougher-than-usual IQ test sure to test your wits.

**Triangle Trouble** — A computerized version of the classic peg-game to challenge your strategy skills.

**The Watergate Quiz** — A quiz which reviews an important, though embarrassing, chapter in American history.

**Computer Yahtzee** — The classic dice game in a computerized version.

**Packed Picture Runner** — Display hi-res graphics with minimal use of disk space.

**Alfredo's Faulty Finale** — The tenth in our series of animated cartoon adventures.

**Galerie d'Art** — Reproductions and commentary focusing on the works of Michelangelo.

**Wally Wabbit's Cartoon Studio** — A demonstration of the plotting routines made available in the Cartoon Studio.

**Through the Looking Glass** — Find out two things all computer neophytes should know.

**Matinee Madness** — Become a main character in some of Hollywood's classic 1950's horror films.

**The Music of Gaspar Sanz** — Listen to the music of the 17th-century Spanish guitarist.

**Machine Language Spoken Softly, Part 6** — The machine language tutorial series concludes.

## ISSUE #56 (Two 5.25" Disks)

**Arcade Boot Camp** — The complete original hit game from Penguin Software!

**The Cash Box** — An educational program to help elementary children with their addition skills.

**Dimto** — Test your ability to mimic a sequence of musical tones.

## ISSUE #56 (Continued)

**Hostage** — You have one hour to free a bank president held hostage by five terrorists!

**Case Converter** — Convert lowercase files to uppercase for reading by older Apples.

**Phone Words** — Convert the letters on the phone dial to numbers and vice versa.

**Gallerie D'Art** — This issue's focus: the works of the 20th-century surrealist, Rene' Magritte.

**Through the Looking Glass** — An in-depth interview with Ricard Garriott, author of the best-selling *Ultima* series of fantasy games.

**Print Shop® Images** — Another set of beautiful images to add to your collection.

**F-16 Fighting Falcon** — An illustrated look at our premier fighter plane.

**Impossible Apple Logo** — Display colors not normally possible on your Apple!

## ISSUE #57 (Two 5.25" Disks)

**Pensate** — The *complete* chess-like strategy game from Polarware/Penguin.

**Born in the USA** — A quiz testing your knowledge of U.S. history and geography.

**The Video Librarian** — A handy database program to get your videotape library in order.

**CATALOG Catcher** — Convert your disk catalogs to text files.

**The Dot Connection** — A computerized version of the classic dot game.

**Hacker's Holiday** — A satiric look at a hypothetical software package with unbelievable features!

**User Art** — Three outstanding graphics submitted by subscribers: "Miss Liberty," "Prophet," and "The Taj Mahal."

**Print Shop® Images** — Our "Boys of Summer" theme features logos from major league baseball teams.

**Bomb Squad** — Stop that ominous ticking sound, defuse the bomb, and save your life!

**Pig Latin Made Easy** — A translator for the language of fun and silliness.

## ISSUE #58 (Two 5.25" Disks)

**The Caverns of Freitag** — Use your wits and your reflexes to slay the evil dragon in its lair.

**Gallerie d'Art** — Reproductions and commentary on the Op Art and Pop Art movements.

**User Art** — Two more outstanding subscriber-submitted graphics: "Marble" and "Ritual Figure."

**Print Shop® Images** — A new group of images for use with Brøderbund's Print Shop program.

**Write a Test** — A utility for writing, editing, and printing test papers.

**ImageWriter Commander** — A menu-driven program to make ImageWriter printer setup a breeze.

**Screen Saver +** — A simple utility which loads, saves, and displays hi-res graphic images.

**The Minus Touch** — A subtraction drill for elementary students.

**Stress Test** — A self-evaluation of the stress factors in your busy life.

**Slide 'Em Cowboy** — A "tough-as-leather" variation of the sliding-tiles game.

**Subscriber Reviews** — Check out Software Touch's **Fontworks** and a follow-up on StyleWare's **MultiScribe**.

**The Popeye Game** — A Popeye trivia quiz for all ye mateys.

## ISSUE #59 (Two 5.25" Disks)

**Pie Man** — Working in an automated bakery is no piece of cake, you will soon discover!

**Print Shop® Images** — A collection of logos from all 28 NFL football teams.

**User Art** — Two outstanding subscriber-submitted graphics: "Horn of Plenty" and "Ritual."

**Cybermine** — Renegade robots threaten a vital mining installation in this text adventure.

**Modem Quest: A Baudy Tale** — A discussion of life with the "wild modems" and public bulletin boards of North America.

**Disk Frisk** — A combination disk copier and sector editor.

**Image Juggler** — Merge two hi-res pictures, and print the results if you have a Grappler™ printer interface card.

**Multiple Choice** — A multiplication drill for elementary students.

**Factor Extractor** — A strategy game that also reinforces a student's concept of factoring.

**Cassette Label Printer** — Print cassette box sleeves with space for 14 titles per side.

**Warping Wigglers** — A little hi-tech cloud-watching is good for the soul!

## ISSUE #60 (Two 5.25" Disks)

**Apple IIX (GS) Sneak Preview** — A detailed overview of Apple's latest computer.

**Turkey Trivia** — Little-known facts about a Thanksgiving tradition.

**Cornerstone** — Learn the basics of the roman numerals system.

**Sector Roundup** — Map a disk's available sectors.

**The Time Zone** — Display a table showing GMT and local time for U.S. time zones.

**Gallerie d'Art** — A look at some of Auguste Rodin's finest sculptures.

**Print Shop® Images** — Team logos from the National Hockey League.

**Cave of the Reaper** — A text adventure in which spelunking can be hazardous to your health.

**Review** — See what we thin of **Deversi-Copy** from Diversified Software Research.

**Ranndom Events** — A close-up look at developments in the computer industry.

**Spy's Demise** — Become a clue-solving secret agent in this Polarware/Penguin arcade mystery.

## ISSUE #61 (Two 5.25" Disks)

**Tornado Tutor** — Animations and text offer a close-up look at nature's most violent storm.

**Weather Conversions** — Calculate the wind chill factor, heat index, or other meteorological data conversions.

**Hurricane Tracker** — Follow the course of hurricanes across the Caribbean.

**Trial Size Toolbox** — From Roger Wagner Publishing comes routines for your BASIC programs!

**Hacker's Holiday Update** — A real program that rather wryly claims to have every feature a hacker needs!

**Havaniceday** — Vent your feelings about such a greeting in this whimsical arcade-style game.

**Watch Your Language, Mark II** — Add your own nouns, verbs, and adjectives to a story you haven't seen yet!

**Review** — Donna K. Woody's opinion of Compucraft's **The Stitch Grapher**.

**Ranndom Events** — A close-up look at developments in the computer industry.

**Reader Review** — A review of Funk Software's **Sideways** spreadsheet printout program.

**Print Shop® Images** — All 52 playing cards for your Print Shop library!

## ISSUE #62 (Two 5.25" Disks)

**Lores Dump** — Convert lo-res pictures to hi-res and vice versa.

**The Logical Choice** — A version of the classic logic game **Mastermind**.

**My Own Adventure** — A "choose-your-own-path"-type adventure story.

**Odyssey** — The *complete role-playing game from Synergistic Software*.

**Through the Looking Glass** — The author of **Odyssey** reminisces about the early days of Apple computing.

**Biorhythm** — Create monthly biorhythm charts for yourself or a friend.

**Reader Reviews** — Check out **Under Fire!**, **MouseWrite** and **ThinkWorks**.

**Ranndom Events** — A close-up look at developments in the computer industry.

**Print Shop® Images** — A smorgasbord of culinary delights — not to eat! — but to add to your Print Shop library.

**Serendipity** — A hi-res novelty guaranteed to soothe jangled nerves.

**Filled to Capacity** — A hi-res program testing your knowledge of English and metric volume units.

**Song Guesser** — Any disk with music files can provide tunes for a "Name That Tune"-like game.

**Review** — A look at **The Luchser Profile**, a Mindscape personality test.

## ISSUE #63 (Two 5.25" Disks)

**Anti-Gravity** — A challenging arcade game to test both your reflexes and sense of strategy.

**Blockade** — Battle a friend or your computer-opponent in this version of the classic arcade game.

**Review** — A look at **U.S.A.A.F.**, SSI's World War II simulation, by Donna K. Woody.

**Reader Review** — A critique of Infocom's elaborate text adventure, **A Mind Forever Voyaging**.

**Print Shop® Presenter** — A utility for viewing up to nine Print Shop images at a time.

**Why ProDOS? Part 1** — An in-depth comparison of DOS 3.3 and ProDOS.

**Laser Show** — A fascinating graphics display from David (Dr. Cat) Shapiro.

**Print Shop® Images** — A menagerie filled with real and mythical beasts.

## ISSUE #63 (Continued)

**Call Signs** — Determine the areas served by a particular HAM radio call sign.

**Review** — Donna K. Woody's discussion of **Magicalc**, Artsci's spreadsheet program.

**MouseWrite Demo** — An interactive demo of the word processor from Roger Wagner Publishing.

**Ranndom Events** — A close-up look at developments in the computer industry.

**Language Notebook** — A great learning tool for students of foreign languages.

## ISSUE #64 (Two 5.25" Disks)

**A Peek at DownTime** — An April Spool Foot of one of our competitors.

**Decade** — Another excellent card game from Paul Zelman.

**Airheart** — A look at Brøderbund Software's new arcade-style game.

**Ardy the Aardvark** — A whimsical arcader guaranteed to challenge your reflexes.

**Mr. Bessel** — Plot several different bessel functions to create fascinating graphic displays.

**Boarding House** — Eight new Brøderbund Print Shop Companion borders.

**ImageWriter Font Downloader** — Design and download fonts for the ImageWriter and ImageWriter II printers.

**Reader Review** — Find out about **Mouse Desk**, the Mac-like desktop organizer from International Software.

**The Grand Union** — Learn the history of the United States flag.

**Why ProDOS? Part 2** — The in-depth comparison of DOS 3.3 and ProDOS continues.

**Ranndom Events** — A close-up look at developments in the computer industry.

## ISSUE #65 (Two 5.25" Disks)

**Anna's Gram #1** — A unique and entertaining word puzzle.

**Monstroid** — A charming and imaginative text adventure from two junior high programmers.

**Bouncing Kamungas** — The complete and completely-engaging arcade-style game from Polarware/Penguin.

**Reader Reviews** — Critiques of **KeyPlayer™**, **MultiScribe**, and the newest version of Brøderbund's **Print Shop**.

**Continental U.S. Quiz** — Test your knowledge of the states and capitals.

**My Grandfather's Chest** — A competitive memory game for children and adults alike.

**Dazzler** — Another hypnotic hi-res novelty from "Dr. Cat" Shapiro.

**Print Shop® Images** — A collection featuring images about transportation.

**Printer Power** — A printer setup program for producing a wide variety of type styles.

**Why ProDOS? Part 3** — The in-depth comparison of DOS 3.3 and ProDOS continues.

**Ranndom Events** — A close-up look at developments in the computer industry.

## ISSUE #66 (Two 5.25" Disks)

**Thousand Miler** — A hi-res version of the popular strategy game **Mille Bornes**.

**Anna's Gram #2** — Another entertaining word puzzle from the author of **Bezare**.

**Reader Reviews** — Opinions about Funk Software's updated **Sideways** and Pinpoint Publishing's **RunRun**.

**FUNDamental Factors** — A program quizzing students about least common multiples and greatest common factors.

**Border Shop Fonts** — Both the "Cartoon" and "English" fonts require **The Print Shop Companion**.

**Sector Manipulator** — A multi-function disk utility for sector editing, disk searching, and file retrieval.

**Edit.Pro** — The complete ProDOS AppleSoft program editor from Living Legends Software.

**Review** — A critique of **Edit.Pro** by Val J. Golding.

**Ranndom Events** — A close-up look at developments in the computer industry.

## ISSUE #67 (Two 5.25" Disks)

**Encounter One** — You must take an alien I.Q. test with instructions written in a non-human language!

**Anna's Gram #3** — A word puzzle *not* written in a strange alphabet, but challenging just the same!

**Bezare** — Decipher the alien alphabet to learn the rules of this game before you can play it!

**Minefield** — Utilize both memory and strategy skills to negotiate a hi-res minefield.

## ISSUE #67 (Continued)

**King of the Jumble** — A cryptanalysis program for solving simple ciphers.

**Print Shop® Images** — Rank insignia and other emblems of the U.S. armed forces.

**Label Writer** — Create, print, and save to disk up to 15 frequently-used labels.

**IIGs Key Whiz** — Detect and display thousands of Apple IIGs keypresses.

**Founding Fable** — Syndicated columnist Dan Gutman's sly look at history.

## ISSUE #68 (Two 5.25" Disks)

**Duchess** — Another slick solitaire card game from Paul Zelman.

**Ant Wars** — A strategy game with red vs. black ants in a fight to the finish.

**Anna's Gram #4** — Another great word puzzle from John Besnard.

**Argos** — Pit your reflexes against hordes of invading aliens.

**Q&D HiRes Text** — Learn not only what hi-res text is, but also how to use it.

**Q&D Font Editor** — A utility for designing and using hi-res text.

**Round Robin** — A handy tool for scheduling matches in round robin tournaments.

**Print Shop® Images** — Graphic creations from one of our most talented Print Shop artists: Juliette Desheller.

**Biblical Flash Cards** — Fifty-two questions on the books of the Bible.

**Ranndom Events** — A close-up look at developments in the computer industry.

## ISSUE #69 (Two 5.25" Disks)

**Anna's Gram #5** — Another of John Besnard's mind-boggling word puzzles.

**Apple Dots** — You are seeing dots before your eyes! Connect them.

**Jotto** — A word guessing game with a difference.

**The Spy Strikes Back** — The complete sequel to Polarware/Penguin's **Spy's Demise**.

**Tacklebox** — A show-and-tell program which brings back fond memories.

**Print Shop® Images** — Talented guest artists share new borders and a composite with you.

**Astronomy Corner** — A quick hi-res tour of our solar system.

**Friendly Check** — Replace "creative accounting" with accuracy when balancing your checkbook.

**Squaring Off** — Swap crosses and triangles in this challenging exercise.

## ISSUE #70 (Two 5.25" Disks)

**DA Stock Game** — Find out if and when your stocks will go up.

**Learning your AVP's** — How many American Vice-Presidents can you remember?

**Reader Reviews** — Check out opinions of **PHM Pegasus** and **Certificate Maker**.

**Pixel Puzzler #1** — Slide-the-tiles puzzles based on Carol Day graphics, "Eye on the Future" and "Goldfish."

**Print Shop® Images** — Enjoy a Spanish mission composite and a set of football figures.

**Q&D Picture Finder** — A fast way to look through your hi-res picture library.

**Monkey's Uncle** — It's "monkey see, monkey do" in this graphics and sound extravaganza.

**Anna's Gram #6** — Another challenging word puzzle from John Besnard.

**Tubeway** — Thwart insidious invaders from a strange geometric universe.

## ISSUE #71 (Two 5.25" Disks)

**Electric Guitar** — Recover your stolen instruments before showtime!

**Rock and Roll Quiz** — A challenging trivia quiz on the history of rock.

**Anna's Gram #7** — One of the toughest John Besnard word puzzles yet!

**Pixel Puzzler #2** — More slide-the-tiles puzzles based on Carol Day's artwork.

**Print Shop® Images** — Interesting new borders and images for use with Brøderbund's **Print Shop**.

**Alfredo's Miserable Moniker** — The eleventh in our series of animated cartoon adventures.

**Double Trouble** — Simultaneous-play multi-level arcade games on a split screen.

## ISSUE #72 (Two 5.25" Disks)

**Resilon** — Prepare to blast myriad objects falling from the sky.

**Encounter II** — A mysterious alien water valve puzzle for you to solve.

## ISSUE #72 (Continued)

**Bugs!** — Stomp the household pests to oblivion as fast as you can.

**Watch Your Language, Mark III** — Another zany story-maker from our favorite Guanozap programmer.

**Anna's Gram #8** — John Besnard strikes again with another devilish word puzzle.

**Psychic Powers** — A true test of psychic ability: the player with the most precognition wins.

**ENTER** — A handy routine which solves the problems created by the INPUT command.

**By Any Other Name** — Select from hundreds of first and middle name combinations.

**Ghouls by Day** — Six of our favorite fiends in a creepy Halloween slide show.

**Pixel Puzzler #3** — Artist Carol Day herself is the subject of this computerized jigsaw puzzle.

**Print Shop® Images** — A bevy of ghouls and monsters for your Halloween greeting cards.

**Nightmare Gallery** — Surely the most blood-curdling arcade game ever devised!

## ISSUE #73 (Two 5.25" Disks)

**The Space Ark** — Collect specimens from all over the cosmos in this Datamost arcade game.

**Day on the Veldt** — A hi-res slide show of an African safari by Carol Day.

**AppleMind** — A revision of **Mastermind** by Matthew Clark.

**Q&D Volume Mapper** — Print full CATALOGs of your ProDOS volumes.

**Wiggler** — A hypnotic hi-res novelty from Dr. Cat.

**Zippers** — Another Paul Zelman hi-res solitaire game sure to please the most avid enthusiast.

**Pixel Puzzler #4** — A three-level hi-res jigsaw puzzle.

**Packed Picture Runner** — Make BRUNable hi-res pictures for ProDOS.

**The Crossword Machine** — Knowing the theme will help you solve this word puzzle.

## ISSUE #74 (Two 5.25" Disks)

**Super Bunny** — Carrots are to the mighty rabbit what spinach is to Popeye.

**Top CAT** — Explore the hierarchy of ProDOS files with this automatic menu program.

**The Crossword Machine** — A computerized crossword puzzle for hours of entertainment.

**GR8 PL8S** — Use cryptic clues to complete a series of personalized license plates.

**Michael's Magic** — A hypnotic kaleidoscope treats you to a colorful visual extravaganza.

**Seven Keys** — Be the first player to collect seven keys — *and* \$100,000!

**Pixel Puzzler #5** — Another Carol Day hi-res puzzle featuring our favorite input device.

## ISSUE #75 (Two 5.25" Disks)

**Cavern Creatures** — Avoid the deadly walls of endless caverns in your quest for the Secret City.

**Australian Cockroach** — Eradicate the most disgusting menace of the century.

**Watch Your Language** — Speak (*adv.*) and carry a big (*n.*) as you create fill-in-the-blank stories.

**GR8 PL8S II** — More customized license plates for you to decipher.

**The Crossword Machine** — Hi-res crossword fun for everyone.

**Latitude & Longitude** — Training in parallels and meridians.

**DOGPAW** — An automatic text output routine.

**Printer Enhancer Program** — Set the print styles for any dot matrix printer.

**Infinitudes** — Sit back and enjoy this hi-res kaleidoscope.

## ISSUE #76 (Two 5.25" Disks)

**World Cities** — Test your knowledge by locating the famous cities of the world.

**Volume Control** — The last word in volumetric conversion programs.

**'No-Liner' Utilities** — EXEC-able text file utilities for more joyful programming.

**Twittering Birds** — See if your ear is discriminating enough to identify our feathered friends.

**Presidents' Day Quiz** — Explore the warped psyches of **Softdisk's** editors.

**Walk into the Dot** — Maneuver your man to avoid the deadly orange dots.

**The Argent Bovine** — A thrilling parody on the famous Origin **Ultima** series.

**Periodical Table** — *Not* to be confused with Anton van Leeuwenhoek's microscope!

**Hangman** — Hi-res action in an unbeatable word game!



## ISSUE #76 (Continued)

**Tharolian Tunnels** — Free the planet Tharolia from rule by maniacal machines.

**The Crossword Machine** — This month's puzzle: "Straw Warts, Episode IV: The Editor Strikes Back."

**Pixel Puzzler #6** — A CATastrophic hi-res jigsaw puzzle.

## ISSUE #77 (Two 5.25" Disks)

**Phases of the Moon** — An animated tutorial on lunar phases and the tides.

**Crazy Mazey** — Dodge killer cars as you grab cash secreted in this smash-up thriller.

**Detours** — Construct the most straight rows and win this two-player game of strategy.

**The Crossword Machine** — Our monthly computerized word puzzle to keep you guessing.

**No-Clock Timeset** — An accurate timepiece for Apples that do not have clocks.

**Anna's Gram #9** — Unscramble the letters, solve the anagram, *then* view the cartoon!

**Visibook** — You supply the numbers; **Visibook** does the calculations in this spreadsheet-checkbook.

**Softdisk Formatter** — Format your ProDOS disks in an instant.

## ISSUE #78 (Two 5.25" Disks)

**The Crossword Machine** — This month's puzzle's 121 squares will puzzle you, for sure!

**No-Liners** — Three EXEC-able files to make your programming easier.

**Concentration** — Match two shapes hidden under the numbers and you score!

**Pixel Puzzler #7** — A tough, computerized jigsaw puzzle.

**Anna's Gram #10** — The final installment of John Besnard's exciting rearrange-the-word puzzles.

**European Cities** — Learn the cities of Europe with help from the magnificent Mentor.

**Selector** — Exit ProDOS with convenience and style.

**Mars Cars** — Grab the treasure and evade the deadly Mars Cars.

**Softdisk Formatter** — A quick and easy way to format ProDOS disks.

**Diskwriter** — A small though sharp word processor for your "Feedback" files.

## ISSUE #79 (Two 5.25" Disks)

**Print Shop® Graphics** — They're *back!* — with an all-new presentation program.

**U.S. Cities quiz** — Find out how well you really know U.S. geography.

**Recollect** — A real-time Beatles trivia quiz.

**GR8 PL8S** — A third nearly-impossible license plate puzzle from John Besnard.

**The Crossword Machine** — A monthly challenge for all cruciverbalists.

**Q&D Picture Finder** — Locate and look at all the pictures on any disk drive.

**DiskWriter** — A word processor for your "Feedback" files.

**Reprint** — Print out your text screen by pressing RESET.

**Hyperformat** — A quick and easy way to format ProDOS disks.

## ISSUE #80 (Two 5.25" Disks)

**Pyramid** — Throw away everything if you are to win this hi-res game of solitaire.

**Haydn's Minuets** — Learn about the great composer as you listen to his music.

**Multiplication** — Once you know the Big Secret, multiplication is *easy!*

**Print Shop® Graphics** — Medieval images and a new Old English font.

**Undelete** — Recover files you have accidentally deleted.

**One-Page Calendar** — A year-long calendar on *one* page of printer paper!

**DiskWriter** — A quick and easy word processor.

**Hyperformat** — A quick and easy disk formatter.

**The Crossword Machine** — Featuring the first puzzle by a non-**Softdisk** staff member.

**Conquering Worlds** — Conquer whole star systems in this far-reaching tactical simulation.

## ISSUE #81 (Two 5.25" Disks / One 3.5" Disk)

**Magna Charta™ Demo** — A peek at Third Wave Technology's new business graphics application.

**Money Money** — Print out currency exchange tables.

## ISSUE #81 (Continued)

**INPANY** — INPut ANYthing with this utility and print it with wrap-around.

**Hi-Res Root** — Place hi-res text in your programs quickly.

**Rock and Scroll** — Get your balloons past falling rocks in this two-player game of strategy.

**Automata** — Enter reproduction patterns for cells and observe changes in future generations.

**Vortex** — Face onslaught from every side in this fast arcade adventure.

**Print Shop® Graphics** — Images and borders for your **Print Shop** collection.

**Crossword Creator** — Design your own 11x11 puzzles.

**Charts and Graphs** — An overview of charting and graphing applications.

## ISSUE #82 (Two 5.25" Disks / One 3.5" Disk)

**Magic Boxes** — A tough though entertaining mathematical puzzler.

**ProMap** — Pinpoint what file is where on any ProDOS disk.

**The Works Shop** — A graphics and programmers' database for AppleWorks™.

**Changemaker** — An educational game teaching children how to make change.

**Print Shop® Graphics** — More images, borders, and fonts for your growing collection.

**Q&D Backup Restore** — Back up large ProDOS volumes with ease and versatility.

**Q&D Font Editor** — Make standard hi-res fonts the easy way.

**Encounter III** — An interactive demo from John Besnard's **First Encounter**.

## ISSUE #83 (Two 5.25" Disks / One 3.5" Disk)

**The Works Shop** — A recipe template for AppleWorks.

**Q&D Banner Thing** — Create banners *fast* with a wide selection of fonts.

**Go Four It** — Line up your pieces before your opponent does!

**ER** — You are the only doctor available and four patients need urgent attention!

**The Market Place** — The latest in software, hardware, and accessories.

**Texthrcg.s** — The assembler source code for our HRCG.

**Print Shop® Graphics** — Twenty-eight new images, two fonts, and 27 borders!

**Boxes and Windows** — Draw shadowboxes and multi-layered windows from BASIC.

**Wari** — A tricky board game from Senegal.

## ISSUE #84 (Two 5.25" Disks / One 3.5" Disk)

**The Works Shop** — A "little black book"-like database template for AppleWorks.

**Thousand Year Datebook** — Keep track of appointments and important dates.

**The Desktop** — Two new fonts for **MultiScribe™ IIe**.

**Number Clue** — Fill in the missing words in number-related phrases.

**Boxmaker** — Create your own boxes for drawing windows in BASIC programs.

**Box Root** — An automatic box and hi-res character generator.

**Multi-Drill** — A step-by-step tutorial through long multiplication.

**Print Shop® Graphics** — Images of flags from all over the world.

**The Bilestead** — Defend yourself from robots or fellow players in this game of combat.

**Kono** — A tricky board game from Korea.

## ISSUE #85 (Two 5.25" Disks / One 3.5" Disk)

**Desert Trader** — The quintessential western-space opera.

**Backtrack** — Turn your computer into a percussive drum machine.

**Goback** — Maneuver quickly between ProDOS subdirectories.

**United States** — A hi-res educational geography quiz.

**Morse Code Tutor** — A tutorial and drill for learning the Morse code.

**Print Shop® Graphics** — New images, borders, and a font as well.

**Taxmaster** — AppleWorks™ templates for figuring your income taxes.

**Superbye** — Exit from applications to BASIC the easy way.

**Fox and Geese** — A tricky European board game.

## ISSUE #86 (Two 5.25" Disks / One 3.5" Disk)

- South America** — A tutorial for learning the countries and capitals of our southern neighbors.
- What a Card!** — Keep track of people to whom you owe cards, and print some to send them!
- Property Manager** — AppleWorks templates for keeping track of what you own.
- Print Shop® Graphics** — A potpourri of images, animate and inanimate.
- 1000-Year Calendar** — Learn about the Gregorian and Julian calendars.
- Dino Eggs** — Rescue baby dinosaurs and save the mystic creatures from extinction.
- Dr. GOSUB's Office** — Twenty BASIC subroutines for programmers.
- Seega** — A touch strategic board game from the country of Somalia.

## ISSUE #87 (Two 5.25" Disks / One 3.5" Disk)

- Africa** — Learn the countries and capitals of the Dark Continent.
- Wherz-It-At** — A database program for keeping up with seldom-used items.
- Bowling** — A hi-res animated bowling simulation.
- Print Shop® Graphics** — Images of computers and much more!
- Bowling Handicapper** — An AppleWorks template for figuring your bowling average.
- ProDisk Utility** — A valuable ProDOS file-, volume-, and block-management utility.
- Sports Savvy** — A sports trivia game for testing your knowledge of the world of sports.
- Dr. GOSUB's Office** — Twelve useful machine language routines for BASIC programmers.
- Nine Men's Morris** — A classic game of strategy from Italy.

## ISSUE #88 (Two 5.25" Disks / One 3.5" Disk)

- U.S. Abbreviations** — Learn the abbreviations of the 48 continental United States.
- Novelty Songs** — Sing along with three of the most popular nonsense songs of the forties.
- The Works Shop** — Use AppleWorks to produce box inserts for your audio cassette library.
- Weights and Treasure** — An animated puzzle game with a screen construction set built-in!
- Print Shop® Graphics** — New graphics, borders, and another font for your collection.
- Crisis Mountain** — Dodge tumbling boulders and flowing lava while saving the mountain from blowing up.
- Soundmaker II** — Create sound effects to spice up your programs.
- Viroscope** — A detection system for isolating computer viruses.
- MU Torere** — Trap the other player in this hi-res version of a New Zealand board game.

## ISSUE #89 (Two 5.25" Disks / One 3.5" Disk)

- Tree** — Display the tree structure of your ProDOS disks.
- Moltar** — Avoid the rising lava and falling fireballs!
- Finger Spell** — Learn the manual alphabet known as American Sign Language.
- Expense Master** — An AppleWorks spreadsheet for tracking your business expenses.
- Print Shop® Graphics** — A variety of images for use with Brøderbund's popular program.
- Asia** — Learn the countries and capitals of the largest continent.
- Autostart** — Kick off any ProDOS program automatically.
- The Golden Cheese** — Traverse the mystifying maze to find the fabulous treasure.
- Fileview** — A generic menu program for viewing, loading, or running your files.
- What a Message!** — Create new font panels for Issue #86's **What A Card!**
- Nimwit** — A NIM-like game in which you *slide* the last piece to win.
- Dimwit** — A spoof of **Nimwit**.
- Stranded** — Test your lunar survival skills.
- Antarctica** — Learn the countries of our least populous continent.

## ISSUE #90 (Two 5.25" Disks / One 3.5" Disk)

- What a Poster!** — Transform your favorite hi-res picture into a poster.
- I Can Budget** — An AppleWorks template for getting your budget in shape.
- Copy It** — Make *fast* copies of your disks.
- Placeball** — Bounce balls off walls to your heart's content.
- Print Shop® Graphics** — Images of trains and rockets for your collection.

## ISSUE #90 (Continued)

**Short Circuit** — All it takes to save the world is your joystick.

**World Conquest** — Use your best strategy skills to return the planet Reficul to its people.

**U.S. Nicknames** — Learn the nicknames of the 48 continental United States.

## ISSUE #91 (Two 5.25" Disks / One 3.5" Disk)

**Q&D Calendar Thing** — A calendar/reminder system you can run while in AppleWorks!

**Europe** — An educational quiz on the cities and countries of the European continent.

**Conversion System** — Convert metric to English and Fahrenheit to Celsius and back!

**Jewel Hunt** — Wander the magician's lair where dangers and riches await you!

**Number Converter** — Make hex, decimal, binary, negative address, and hi/lo-byte conversions easily.

**Print Shop® Graphics** — It's "by the sea" with ships and water fowl graphics.

**Loose Change** — Brush up on your change-making skills.

**Quickshapes** — Select and save hi-res shapes and plot them onscreen in your programs.

**Quickshapes Demo** — An instructive Applesoft program on the use of **QuickShapes**.

**Duck Boop** — Boop ducks and experience firsthand what can be done with **QuickShapes**.

**Slide Guide** — Slide all the pieces into the right positions in this mind-twisting puzzle.

## ISSUE #92 (Two 5.25" Disks / One 3.5" Disk)

**Q&D Credit Payments Thing** — Find out how much your credit card is costing you.

**Credit Payments** — Figure out how much your debts are costing you.

**Car Finances** — Plan your new car payment before you buy!

**Typing Attack** — A typing tutorial with a fun twist.

**Copy** — A ProDOS add-on command for copying or moving files.

**Dupe** — A ProDOS command for copying one file from one place to another.

**Print Shop® Graphics** — Dozens of new images for your collection.

**Princess Puzzle** — Rescue the princess in this menu-driven adventure.

**Anagram Challenge** — A word game for fast thinkers!

**Proportional Text** — Text from BASIC programs can look great!

**Magnet Madness** — Use magnets to get your marble through a maddening maze.

**Bulletin Board** — We hear from you and you from us!

**Last Things** — Some information about new ways to use Softdisk, plus a comments report card.

## ISSUE #93 (Two 5.25" Disks / One 3.5" Disk)

**Mighty Graph** — A multi-faceted graph maker/printer utility.

**MultiLabels** — Learn how to print multiple labels *horizontally* with AppleWorks®.

**Monthly Budget** — An AppleWorks® utility to ease your budget woes.

**Latin Linguist** — Learn Latin phrases which are very much alive!

**Division Drill** — Test and sharpen your division skills.

**Print Shop® Graphics** — Dinosaurs and other impressive creations!

**Zappa Roidz** — An action-packed space shoot-'em-up.

**Aztec Temple** — A text adventure set in the legendary jungles of Mexico.

**Online** — A ProPower utility for scouting out active volume names.

**Showtxt** — A ProPower utility for displaying and scrolling text files.

**Eject!** — A ProPower utility for ejecting 3.5" disks from BASIC!

**Zig Zag Flag Shag** — Try to find the shortest distance between two points!

## ISSUE #94 (Two 5.25" Disks / One 3.5" Disk)

**Edit** — An impressive text editor for reading *any* type of file.

**Easy Money** — An AppleWorks template for managing your investment portfolio.

**Print Shop® Graphics** — Images of world geography and history.

**Pixel Puzzler II** — A fast, interactive demo of a *Softdisk Catalog* product.

**Techtalk Tutor** — A tutorial on the lingo of ProDOS and megabytes.

**Scan** — A ProPower utility for speeding up file searches.

## ISSUE #94 (Continued)

**Stringing Along** — Two BASIC routines for string formatting and searching.

**Recollect Trek** — A challenging hi-res Star Trek trivia quiz.

## ISSUE #95 (Two 5.25" Disks / One 3.5" Disk)

**Pantry Planner** — Make shopping easier by organizing your pantry.

**Credit/Employment History** — Record personal data about accounts, residences, and previous jobs.

**Typing Attack II** — The next step to the mastery of fast typing.

**Who Cares?** — Find out the real names of "reel" stars!

**Print Shop® Graphics** — Tile patterns, birds, borders, and more!

**Sargo Noidz** — A fast-action chess arcade game.

**Ed's Superspy Course** — The final test-adventure before receiving your spy diploma.

**Softbye** — An exit menu for selecting your next application.

**Mix Matcher** — Solve this intriguing new puzzle - or die trying!

## ISSUE #96 (Two 5.25" Disks / One 3.5" Disk)

**Microbyte Savings & Loan** — Your Apple can do almost anything your bank can!

**Measure for Measure** — An AppleWorks template for converting units of measure.

**Alfredo's Lost Cause** — A nostalgic glance back at our hero's very first adventure.

**Alfredo's Miserable Moniker** — Our dubious hero searches for his true last name.

**Print Shop® Graphics** — A random assortment of beautiful graphics for your collection.

**Memorable Music** — A jukebox of classical melodies for your entertainment.

**Lumberjack Crash** — Defoliate the forest, and you will solve this infuriating puzzle!

**The Crossword Machine** — Our popular paperless crossword puzzle returns!

**Magna Charta** — A demo of the powerful chart-making program.

## ISSUE #97 (Two 5.25" Disks / One 3.5" Disk)

**Dominoids** — Gobble up point-laden dominos, but avoid the deadly dominoids!

**Measure for Measure, Part 2** — Use this AppleWorks® template to make linear, thermal, angular, and speed conversions.

**Micro Byte List Manager** — Organize and print address and phone lists for home, school, and office.

**Jump Pit** — Play an intriguing adaptation of an ancient Oriental game!

**Dinosorcerer** — Create thousands of dinosaurs with this prehistoric construction kit.

**Macro Magic** — Translate single keypresses into multiple-character strings of text!

**Prehistoric Print Shop®** A companion collection of creatures for this month's **Dinosorcerer**.

## ISSUE #98 (Two 5.25" Disks / One 3.5" Disk)

**Cribbage Companion** — Learn cribbage, then play the computer in this colorful card game.

**Happy Jacket** — Design, print, and fold to create custom disk sleeves.

**Alfredo's Stupendous Surprise** — Experience insurmountable obstacles with your favorite computer anti-hero.

**Print Shop® Images and Font** — Add to your Print Shop collection with 28 new images and an original font.

**The Crossword Machine** — Solve this challenging 121-square computer crossword puzzle.

**Hook** — Eliminate unnecessary disk accesses by "unhooking" connected disk drives via software.

**Crypto-Maker** — Solve our encrypted puzzles, or create your own!

## ISSUE #99 (Two 5.25" Disks / One 3.5" Disk)

**Medical Expenses** — Keep accurate records of your entire family's medical expenses.

**Tennis** — Lob, volley, and ace out your opponent in a fast-paced game that's sure to test your reflexes!

**Cell Block, Lesson 1** — First in a new series on how to design powerful AppleWorks® templates.

**Print Shop® Graphics and Font** — A menagerie of clip art creatures, plus an IBM-logo-based font!

**Sub Stalker** — Sight and sink enemy subs in an underwater action arcade game.

## **SUE #99 (Continued)**

**ocopy** — Copy files from disk to disk, even if you have only one disk drive.

**IX** — Forget about using slashes in pathnames.

**ianish Tutor** — Teach or learn one of the world's fastest-growing languages.

## **SUE #100 (Two 5.25" Disks / One 3.5" Disk) SPECIAL COLLECTOR'S ED.**

**alendar Wizard** — Create custom calendars with this powerful, all-in-one application.

**oftdisk Centennial** — Browse through a decade of impressive Softdisk programs!

**b Hunter** — Track every resume you have in circulation.

**rthday Games** — Celebrate with a super trilogy of arcade games.

**ell Block, Lesson 2** — Learn more about AppleWorks!

**rint Shop Graphics** — A variety of fun clip art.

**ap** — Check your disk for blocks free and blocks used.

## **SUE #101 (Two 5.25" Disks / One 3.5" Disks)**

**irrfect Math** — Make math fun for young learners with this simple addition and subtraction drill.

**olf-A-Way** — Keep track of your handicap with this unique AppleWorks® template.

**chival Lister** — Print easy-to-read BASIC program listings in a snap.

**rotto Run** — Fly through the grotto — and stay alive in this frantic arcade game.

**ell Block, Lesson 3** — Third in our spreadsheet-building series.

**rint Shop Graphics** — Add U.S. Navy fighter squadron logos to your clip art collection.

**assette Inserts** — Organize your audio tape collection with colorful and informative insert labels.

## **SUE #102 (Two 5.25" Disks / One 3.5" Disk)**

**ustom Database** — Organize anything from collections and business inventories to names and addresses.

**onitor Command** — See every MLI instruction that ProDOS executes.

**rint Shop Fonts** — Create better-looking signs, banners, and cards with these 16 new Print Shop fonts.

**me Machine** — Pack your audio and video tapes full of sounds and scenes with the help of this AppleWorks spreadsheet template.

**igh Stakes Poker** — Play draw poker against two computer opponents in this hi-res card game.

**ell Block, Lesson 4** — Become a power AppleWorks spreadsheet user.

## **SUE #103 (Two 5.25" Disks / One 3.5" Disk)**

**ord Castle** — Improve your child's vocabulary skills with this hidden-word game.

**utliner** — Organize your thoughts into a formal outline.

**rossword Machine** — Solve four challenging puzzles in our updated Crossword Machine!

**ark Designs** — Explore five levels in your quest for Grelminar's staff.

**onthly Mail** — Automate your monthly mailings with this handy name and address database and envelope printer.

**rint Shop Graphics** — Put some of the Softdisk issue graphics to work in Print Shop!

**roPOWER Utilities** — Add three new, powerful commands to BASIC—BEEP, DATE, and TIME.

## **SUE #104 (Two 5.25" Disks / One 3.5" Disk)**

**ab Assistant** — Learn about the atomic mass, electron structure, and many other details of over hundred chemical elements.

**alance Sheets** — Small business users will smile then they see this AppleWorks Balance Sheet template.

## **ISSUE #104 (Continued)**

**Print Shop Graphics** — We return with more of the popular Naval aviation insignias.

**Time Tunnels** — Improve your hand/eye coordination!

**Cell Block #5** — The world's greatest AppleWorks spreadsheet wizard is back.

**ProPOWER** — Another fabulous utility that lets you send formatted TXT, AWP, BAS, and BIN files to your screen or printer from BASIC.

**Crossword Machine II** — Solve puzzles faster than Pat and Vanna!

## **ISSUE #105 (Two 5.25" Disks / One 3.5" Disk)**

**Flash Math** — It works like electronic flash cards.

**ProPOWER Utilities** — Print a formatted hexadecimal listing of any file!

**Crossword Machine II** — Here are three more challenging mindmelters.

**Treasure Hunter** — Set sail on a search for sunken treasure in this incredible simulation game!

**Cell Block #6** — Harness the power of the AppleWorks spreadsheet.

**Print Shop Border Graphics** — Give your print work a bold new look.

## **ISSUE #106 (Two 5.25" Disks / One 3.5" Disks)**

**Amusement Park** — Beat the thief by finding the stolen goods hidden at the fun park.

**File Chopper** — Split large TXT or AWP files into a collection of smaller files.

**Cell Block #7** — Learn tricks and shortcuts by using the clipboard.

**Crossword Machine II** — Bigger puzzles, and more challenges!

**Print Shop Images** — These include animals, vegetables, large trucks and even a space shuttle!

**Scrambled Eggs** — A numerical version of the classic code breaker game.

**Checkbook** — An AppleWorks spreadsheet that tracks virtually any transaction.

## **ISSUE #107 (Two 5.25" Disks / One 3.5" Disk)**

**Kings Up** — Play solitaire on your computer.

**Cell Block #8** — Delve into the dark realms of practical—but unusual—uses of AppleWorks.

**Print Shop Graphics & Fonts** — Two terrific fonts and great new graphics!

**Print Shop Browser** — This add-on Applesoft command will plot a Print Shop graphic on the hi-res screen.

**Number Please** — This educational game tests memory and number skills.

**Income Form** — This AppleWorks spreadsheet stores and processes all your business' information so you can find out what your net income really is!

## **ISSUE #108 (Two 5.25" Disks / One 3.5" Disk)**

**Klondike** — Beat the computer at this classic game of solitaire.

**Slide Block** — Solve this engaging computer version of the childhood "sliding tile" puzzle.

**Print Shop Graphics** — Send your correspondence into orbit with 22 detailed images of historical NASA patches.

**ProPOWER Utilities-POP** — Remove multiple directory levels for the current prefix.

**Estimated Inventory** — Calculate the value of your business inventory.

**Animal Trivia** — Learn interesting, little known facts about 241 creatures in the animal kingdom.

**Numerology** — Plug in your name and birth date and discover the hidden numbers that give insight into your character and personality.

**Cell Block #9** — Learn all about time calculations.

## **ISSUE #109 (Two 5.25" Disks / One 3.5" Disk)**

**Payroll** — Do your own payroll!

**Thumb and Punch** — Similar to Canfield, this solitaire game has a few new twists.

## **SUE #109 (Continued)**

**Int Shop Graphics** — Conjure up mystery with this set of tarot card graphics.

**lobias** — Explore the variety of different fears people experience.

**oPOWER "Bell"** — Change that annoying ProDOS bell to a pleasant beep.

**rk Designs II: Closing The Gate** — Find the mystical gate that will keep evil creatures from entering the world.

**II Block #10** — Learn how to handle date calculations.

## **SUE #110 (Two 5.25" Disks / One 3.5" Disk)**

**ondike 3** — Beat the odds at this advanced solitaire card game.

**per Hi-Res Loader** — Dazzle yourself by converting super hi-res pictures to view on your humble Hi-res screen.

**oPOWER Utilities** — List an "eighty column" catalog of all directories and subdirectories.

**Int Shop Graphics** — Frame your printed creations with an exotic border.

**stes Receivable** — Determine the maturity and discounted value of your notes receivable.

**eedy Delivery** — Help your child learn logical problem solving with this delightful puzzle.

**II Block #11** — Discover a variety of shortcuts and tips to speed up database and printing actions in AppleWorks.

## **SUE #111 (Two 5.25" Disks / One 3.5" Disk)**

**an Calc** — Calculate loan payments over various interest rates and years.

**II Block #12** — This month: TextTricks and Troubles With Text and Spreadsheets.

**oPOWER Command: Set/Get Info** — Learn what technical information is stored with a file, and change that information!

**ossword Puzzle II** — Enjoy two fine, difficult crossword puzzles.

**utterbug's Pictures** — This educational game teaches recognition and matching skills.

**Int Shop Fonts** — Four fonts for use with the Print Shop and Print Shop Companion.

**cketype** — An exciting game for beginning and advanced typists.

## **SUE #112 (Two 5.25" Disks / One 3.5" Disk)**

**idget '91** — This AppleWorks template helps you budget your money over a six month period.

**Do List** — Organize and prioritize your activities.

**oPOWER Command: Convert** — Translate decimal to hexadecimal and vice versa.

**atterstar** — Blast your way through the defenses of the Galaxy Lord.

**ty Protector** — Block bombs dropped by evil sky machines with your interceptor.

**iaos Explorer** — A mathematical equation that suddenly creates perfect order or complete chaos.

**Int Shop Graphics** — There are bugs, animals, a font and more in this collection of images.

## **SUE #113 (Two 5.25" Disks / One 3.5" Disk)**

**esidential** — A biographical AppleWorks database of every president from Washington to Bush.

**esidential Quotes** — An insightful AppleWorks database of the witticisms of America's leaders.

**lvage** — A scrolling arcade game where you fight pirates and collect valuable galactic junk!

**eedy** — A speed-reading tutorial that really works!

**onthly Mystery** — The mystery is... you don't know what it is 'til you run it!

**Int Shop Graphics** — More images to add to your Print Shop.



## **ISSUE #114 (Two 5.25" Disks / One 3.5" Disk)**

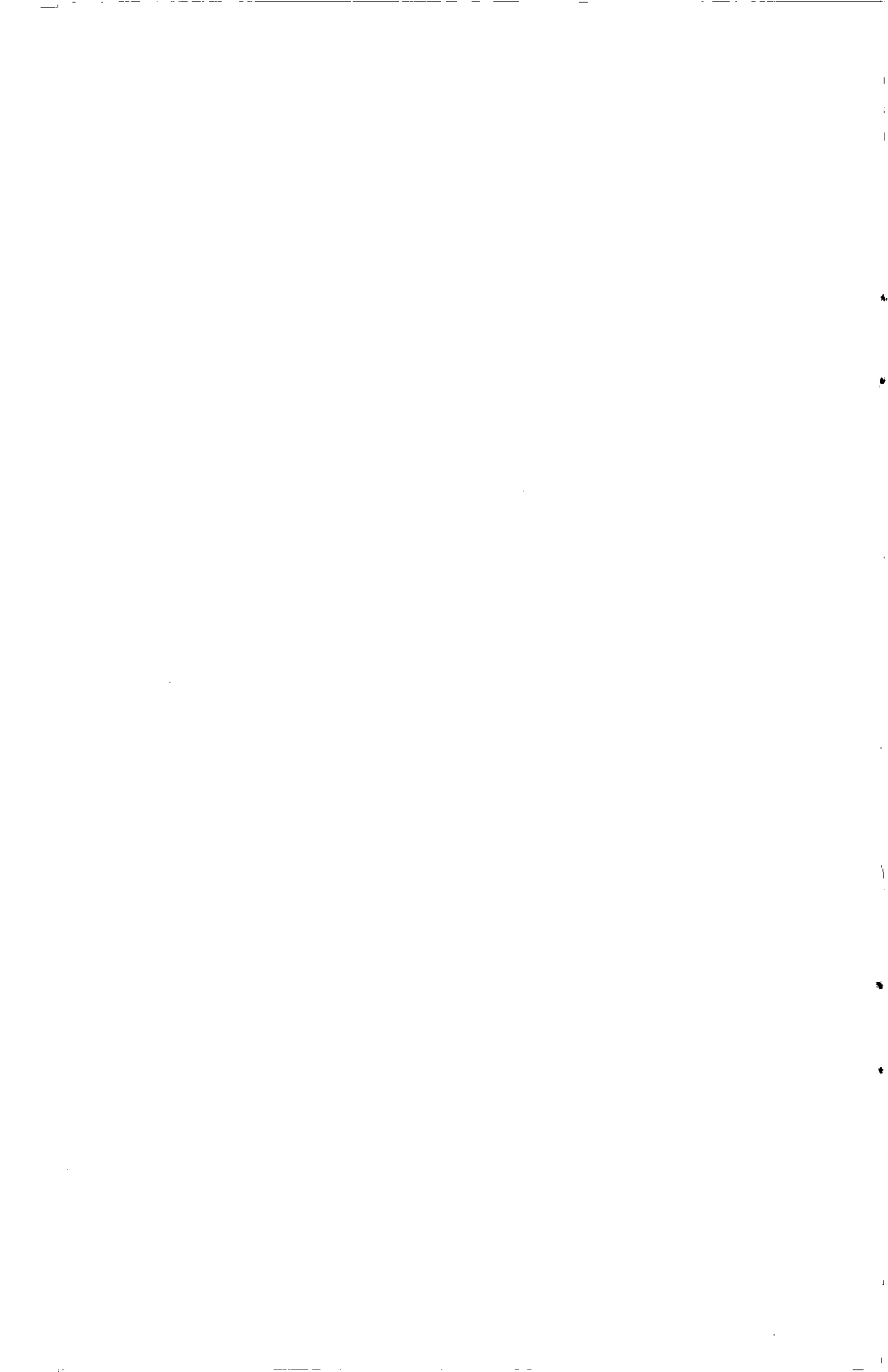
**Movie Minder** — Keep track of your videotapes in the AppleWorks database.

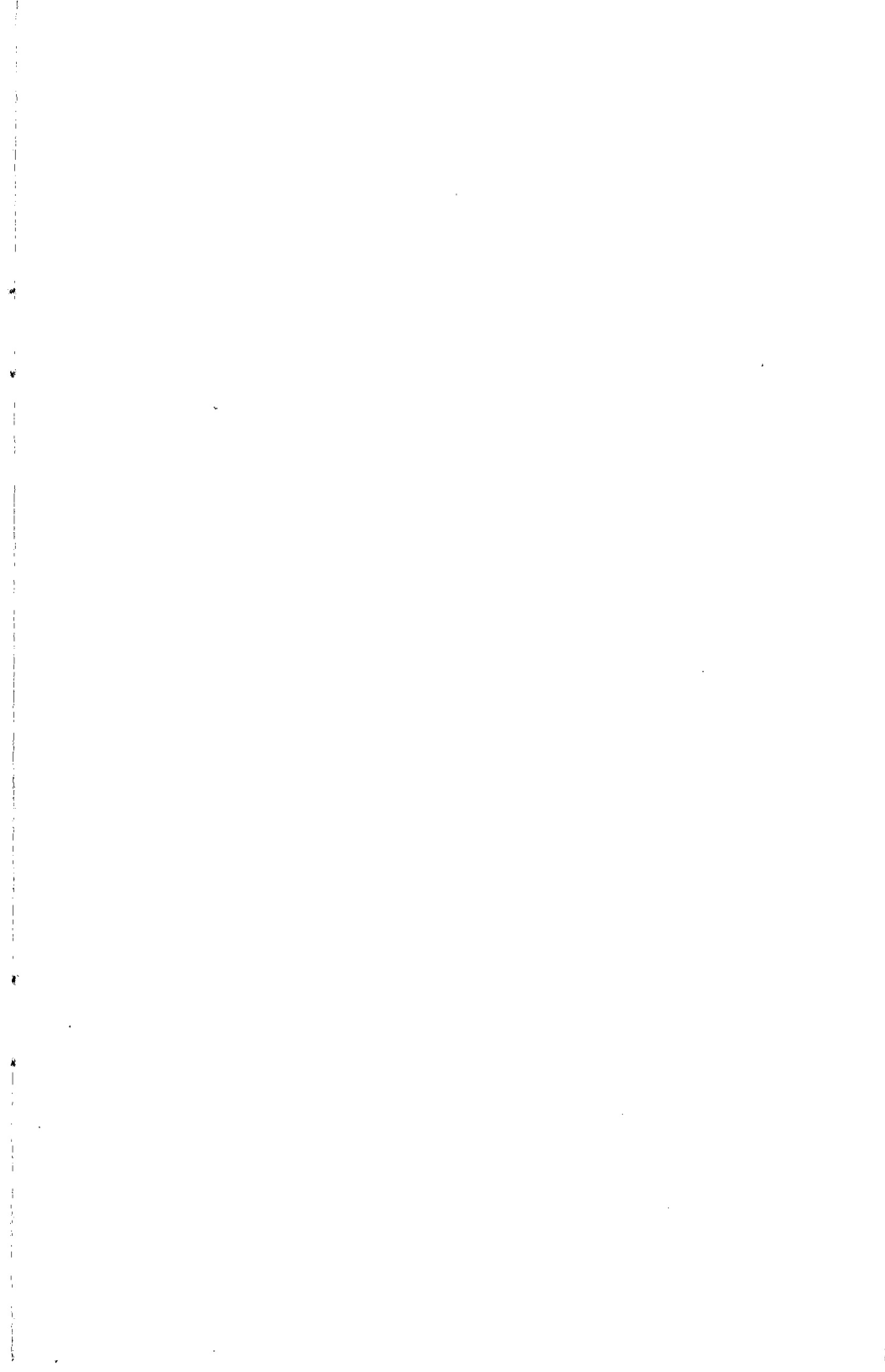
**Monthly Mystery II** — There's something fishy about this one. You'll have to run it to find out.

**Catacomb** — A *double hi-res* arcade game where you're a powerful magician fighting evil forces.

**M.A.L.T.** — Make great labels for your disks and videotapes.

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