



### ISSUE #18 2 DISKS-\$9.95 APRIL 1983

#### RECIPE FILE 1.3

Jim Ganz (our cover artist) wrote this program to keep track of recipes of all kinds. This is the perfect program for anyone who cooks.

#### SATURN SHOTS

Go on a fly-by of Saturn and it's moons as seen from Voyager II in this super slide show.

#### FOR BIRD BRAINS ONLY

Games magazine always has interesting quizzes like this one where each question can be answered using the name of a familiar bird.

#### FAST HI-RES ERASE

Clear the hi-res screen with the color of your choice with this utility.

#### INPUT ANYTHING DEMO

This routine will allow you to get ANY character, even a comma, in a string variable. It's an easy to use machine language program with a demo program in BASIC that will show you how to use it.

#### INTERACTIVE

If you want to be a better programmer, run this tutorial to learn how to use prompts and inputs to write a better program.

#### MULTIPLICATION FLASH CARDS

Educational programs are always valuable. Practice multiplication and the problems you miss will be saved to disk so you can review them later.

#### ADDITION & SUBTRACTION DRILL

Practice addition and subtraction with this educational program. Problems you miss are saved for later review.

#### LO RES PAINTER

The lo-res screen has plenty of colors to paint your pictures with. Use this utility to draw, store, and edit your lo-res pictures.

#### TEXT FILE READER

Text files seem to fascinate everyone. Or is it that they confuse everyone? Here's a utility that will let you display any text file to the screen, random or sequential. It even has a printer option.

#### LINE NUMBER LISTER

List out all the line numbers in your program in four easy to read columns with this utility.

#### TRACE

Use this machine language program to simulate the TRACE function found on the old Apples with Integer BASIC. It allows you

to trace through a machine language program to see what is happening.

#### APPLE II COPY

Written in Applesoft, this combination tutorial and copy program will let you study the program to learn how copying is done.

#### HI-RES DRAWING

Use this program to draw on the hi-res screen and then save your pictures for later editing.

#### MX-80 PRINT MODES

Menu driven utilities really make it easy to choose between different print options. Study the program and then write one for your own printer.

#### IBM ONE LINER

Watch a beautiful hi-res graphics display created using one line of BASIC code.

#### 3-D TIC TAC TOE

Tired of one dimensional games? Here's one that's a real challenge in THREE dimensions. Play against the computer on the hi-res screen.

#### EVEN WINS

Your Apple will get smarter the longer it plays this game. It's easy to beat the first couple of times but then watch out! Can you win 32 times in a row?

#### ONE FOUNDATION

ONE FOUNDATION by Paul Zelman is the one that started it all - all the solitaire games, that is. This is still one of the best solitaire games around.

#### O & D DUET

Write and play your own music with this program written by our own Jim Weiler. Music created with it is compatible with ELECTRIC DUET.

#### PUZZLE CORNER

Arrange 16 matches to form 5 squares. Can you move only 2 matches to wind up with 4 squares? If you get stuck, ask your Apple.

#### BACK ISSUE INDEX

All the titles of the programs appearing on the first 17 issues of SOFTDISK are included in this index.

#### O & D RAT

Jim Weiler wrote this program to read text files. This is an improved version of a program that appeared on an earlier issue of SOFTDISK.

A SPECIAL RUNNING DEMO OF THE QUEST FROM PENGUIN SOFTWARE 21 PAL PROGRAMS (WHAT WE NOW CALL PIPINGS)



### ISSUE #19 2 DISKS-\$9.95 MAY 1983

#### HORSEPLAY QUIZ

This is another in a series of quizzes we published from GAMES magazine.

#### HI-RES TEXT TUTORIAL

Learn how to put text on the hi-res screen.

#### NUCLEAR REACTOR

Think it's easy to run a nuclear reactor? Give this game a try and find out the truth.

#### FUNCTION PLOT

Plot all kinds of functions with this neat educational program.

#### CITRIC ACID CYCLE

Here's an unusual application for your Apple.

#### THE METRIC CLOWN

Be entertained and learn metrics at the same time.

#### MINI QUIZ: PLANETS

How much do you know about our Solar System? This little quiz will test your knowledge.

#### TIME OF YOUR LIFE

What factors have an effect on how long you're going to live? This program can tell you and even give you an idea of how long you might live.

#### TYPING EXERCISER

Do your finger exercises and start typing!

#### TEXT ANALYZER

Do you write for second grade or 11th grade? Let this program analyze your text and give you the answer.

#### REM REMOVER

Remove REMs from your program and the program will speed up. Keep REMs in one version to allow for later changes.

#### SECTOR SCAN

Here's a utility that will display a map of your disk to the screen.

#### APPLESOFT TO TEXT CONVERTER

Change a BASIC program to a text file the easy way for editing or sending by modem.

#### DISK MODIFIER

Change any byte on any sector of your disk with this utility. Use it to repair damaged disks and save info.

#### GRAPHICS DISPLAY

When your friends ask what your Apple can do, just run this nice graphics program.

#### 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

Can you beat the computer in this strategy game? Be warned - the computer learns from its mistakes.

#### PAGE FLIPPING TUTORIAL

Learn how page flipping can improve animation.

#### CIRCULAR REASONING

What is the curve plotted by "x<sup>2</sup> + y<sup>2</sup> = r<sup>2</sup>"? Are you sure?

#### FOR THE WEE ONES

Let the little ones get into the act with this alphabet game.

#### MUPPET MOVIE MUSIC

8 musical selections from the MUPPET MOVIE through your Apple speaker or cassette port.

12 PAL programs, hints, and tips (what we now call PIPINGS).

A running demo of the LAST ONE program.



### ISSUE #20 2 DISKS-\$9.95 JUNE 1983

#### A TIP FROM SANDY

Get some interesting results while learning how to use lo-res graphics and text.

#### APPLE HANGMAN

This version has levels from first to college.

#### VOCABULARY FLASH CARDS

Expand your vocabulary the easy way.

#### KEYBOARD TUTOR

Here's a typing tutor that uses the hi-res screen.

#### CHECKBOOK CHECKER

Keep up with the bank! Let your computer balance your checkbook.

#### COLOR ORGAN

When you press a key, see a color and hear a sound.

#### MASTER PROGRAM INDEX

Here's a program to keep track of your programs.

#### CATALOG ORGANIZER

Sort your catalog and get rid of delete 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

Can you guess the number the computer has chosen?

#### KALAH-

Play against the computer or a friend in this interesting game.

#### APPLE KONG

Here's a fast action LO-RES arcade game.

#### APPLESOFT FROM THE GROUND UP PART 1

Learn all about Applesoft the easy way - have the computer show you the commands and the way they work.

#### CLASSICAL MUSIC

Here's some easy listening music!

#### BRIAN'S THEME PLUS

This one has an interesting variation.

#### "ACCOUNTS PAYABLE" QUIZ

One of a continuing series of quizzes from GAMES magazine.



### ISSUE #21 2 DISKS-\$9.95 JULY 1983

#### DONKEY OR ELEPHANT?

What are your political leanings? Try this program and you might get a surprise!

#### COMPUTER VOCABULARY

Learn computer related terms with the vocabulary builder.

#### WORD GAME

Expand your anagram game.

#### HOME LEDGER

Keeps track of home accounts.

#### DATE LIST

Let your computer keep track of your appointments for you.

#### SECTOR TRANSFER

The utility allows you to copy just the sectors you want.

#### HRCG EDITOR

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

#### TEXT PATH

Lead your text around.

#### ZONKER BONKER

What is the object of this game? You tell us!

#### THINK AHEAD

Here's a strategy game you can play against the computer or a friend.

#### SPACE LANDER

Land on an alien planet, but be careful of the enemy missiles.

#### MACHINE MAGIC PART 1

This series of tutorials will teach you all about machine language.

#### APPLESOFT FROM THE GROUND UP PART 2

Continue the tutorial on Applesoft.



### ISSUE #22 2 DISKS-\$9.95

AUGUST 1983

#### DELAY ROUTINE

This is a tutorial that shows you how to write a delay routine.

#### MOUNTAIN CLIMB

A fun way to practice your addition.

#### THE MYSTERY

Just one word: BEWARE. (Don't worry, it's harmless.)

#### INDEX OF CATALOG FILES

Have your computer keep track of all the programs you've collected.

#### PARAPSYCHOLOGY TESTER

Do you have ESP?

#### GAS MILEAGE

How good is your car's gas mileage?

#### ARD'S SCREEN MAKER

A utility to help you make neat looking text screens.

#### COSMIC HANGMAN

Here's an arcade game with a difference!

#### SUBMARINE WAR

Can you sink the enemy submarine?

#### MAZE

How well you can find your way through this maze?

#### APPLE SKETCH

Sketch your pictures on the screen, then save them on disk to look at again.

#### FIDGET

An improved version of FID.

#### MACHINE MAGIC PART 2

Find out some more about machine language.

#### APPLESOFT FROM THE GROUND UP PART 3

Learn some more. Applesoft commands the easy way.

### ISSUE #23 2 DISKS-\$9.95

SEPTEMBER 1983

#### HI-LO

See your hi-res pictures in print with this helpful utility.

#### BLIP IS THE BLAP OF BLEEP

Here's your chance to create your own aphorisms.

#### EDISON

Did you know about this new computer language? This one's for me!

#### APPLEW/IT

Use this tutorial to learn about a helpful machine language routine.

#### AUTO-NUMBER

Sick of typing in line numbers? Here's the cure!

#### TEXT-TRICKS

Spice up your screen display with this set of programs.

#### F-SOLITAIRE

Shuffle the computer cards and give this one a try.

#### APPLAGIC

Use logic to guess five letter words.

#### ANIMATED AMAGRAMS

Watch hi-res letters move around the screen, but don't get too interested - the object is to guess the word they spell out.

#### EVOLUTION

Based on the Game of Life, you have two versions to choose from.

#### FACTORS

Compute the integral factors of a number.

#### RIGHT TRIANGLE

Do you remember how to find a side in a triangle? You won't have to with this neat program.

#### EQUIPMENT INVENTORY

Keep track of all your equipment.

#### PACKAGE MAILING LABELS

Here's a label program that prints labels for packages. Choose from two sizes.

#### MACHINE MAGIC PART 3

Continue your education in machine language.

#### APPLESOFT FROM THE GROUND UP PART 4

Find out some more about Applesoft.

### ISSUE #24 2 DISKS-\$9.95

OCTOBER 1983

#### AUTO PROGRAM

Write a menu-driven program in half the time with this utility.

#### HI-RES IMAGE MOVER

Move an image around on hi-res page 1.

#### DISPLAY VARIABLES

Display variables and their values.

#### NIM

Here's a hi-res version of an old favorite that's hard to beat!

#### RAT MAZE-

Find out how a rat feels!

#### BLACKJACK

Place your bets, folks. At least if you lose, you'll only owe your Apple!

#### KILLER BAT

A chiller for Halloween, or any other time!

#### DUNGEON OF ARBEGLA

Into adventure games? Here's one you can learn something from.

#### LANGUAGE FLASH CARDS

Learn Spanish, French, Hawaiian, or substitute a different language.

#### CHARGE

What does it feel like to be a particle accelerator?

#### FAMILY BUDGET

Keep track of your expenses.

#### FLEXIBLE AMORTIZATION

Can you afford to buy a house? This program will tell you.

#### IT'S A SMALL WORLD AFTER ALL

Not only music, but graphics, too!

#### MACHINE MAGIC PART 4

Find out how to use hi-res text and graphics.

#### APPLESOFT FROM THE GROUND UP PART 5

Continue your education with another tutorial on BASIC.

### ISSUE #25 2 DISKS-\$9.95

NOVEMBER 1983

#### CATALOG TOOL

Make professional looking catalogs with this utility.

#### CATALOG PRINTER

Make the printed catalog look just like the fancy one you see on the screen.

#### RAM DISK

Here's a "small" extra drive for you. (Requires a 64K Apple.)

#### CYCLE JUMP

See how far you can jump the cycle before crashing. (Requires paddle or joystick.)

#### MONTE CARLO

One of the best solitaire games around. What more can we say?

#### LINEAR GRAPHER

Plot and analyze linear equations with this nifty program.

#### BASIC MATH

Get ready for a surprise with this math drill.

#### COUNTRIES & CAPITALS

Better get the atlas out for this one. It will really test your knowledge.

#### ALARM CLOCK

The only problem with this clock is how do you carry it around?

#### STROBE LIGHT

NOTEBOOK

Here's the best kind of notebook easy to use and it never runs out of paper.

#### GLUE GUIDE

Do you know which glue to use with what? Run this program and you'll find out.

#### COUPON MANAGER

Keep track of store coupons the easy way.

#### MACHINE MAGIC PART 5

Learn how to use animation and shapes in machine language.

#### CHRISTMAS MUSIC

This will make any Christmas brighter!

#### APPLESOFT FROM THE GROUND UP PART 6

This wraps up the interactive tutorial on Applesoft.

### ISSUE #26 2 DISKS-\$9.95

DECEMBER 1983

#### NOTEBOOK

This unique program saves data by modifying itself.

#### BUILT IN BASE CONVERTER

A technique for converting from base 10 to 16 without leaving your program.

#### SIGNIFICANT DIGITS

A neat way to line those decimal places up.

#### DOS 'N' STUFF PART 1

We all want to know how to read and write on the disk. This series will teach us.

#### HISTORY OF THE COMPUTER PART 1

A humorous spoof on the origin of the computer.

#### SANDY'S LAWS

Murphy's Law as applied to home computers.

#### HOUSEHOLD FRENCH

A pictorial lesson.

#### TRAP

Be quick on the paddle. Avoid those moving walls.

#### BREAKOUT

A hard to beat, fast machine language version.

#### THE HEAVEN HUNT

So you think you know the Bible?

#### STOCKS

This one will help you keep track of your portfolio. Data is saved on the disk.

#### CALENDAR

Print a calendar of any month since 1753 on printer or screen.

#### SOFTDISK ENVELOPE MAKER

Have hi-res picture, will cut and paste your own homemade disk envelope.

#### TOUCH TYPING TUTOR

This is a lot better than Typing 101!

#### FUNCTION KEYS

Yes, Virginia, your Apple can have function keys, too.

#### VARIABLE DISPLAY

A valuable programming aid, this gives a complete look at variable values after your program has run.

#### DISK EDIT

Another nice utility from Chad Adams.

#### PROGRAM MENU

A self-modifying menu program.

#### SOUNDS OF APPLE

Here's some great music made the Apple way.

#### BACK ISSUE DATA BASE (1983)

Find out what was on each issue for 1983.

# SOFTDISK

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