

# COMPUTE! Back Issues

Here are some of the applications, tutorials, and games from available back issues of **COMPUTE!**. Each issue contains much, much more than there's space here to list, but here are some highlights:

**January 1981:** Load PET Programs Into The Apple II, Player-Missile Graphics for Atari, The Atari DOS, The Kernel of the OSI Operating System, Fixing LOADING Problems on the PET, Spooling with the PET Disk, Expanding KIM.

**February 1981:** Simulating PRINT USING, Using the Atari as a Terminal for Telecommunications, Attach a Printer to the Atari, Double Density Graphing on C1P, Commodore Disk Systems, PET Crash Prevention, A 25¢ Apple II Clock.

**May 1981:** Named GOSUB/GOTO in Applesoft, Generating Lower Case Text on Apple II, Copy Atari Screens to the Printer, Disk Directory Printer for Atari, Realtime Clock on Atari, PET BASIC Delete Utility, PET Calculated Bar Graphs, Running 40 Column Programs on a CBM 8032.

**June 1981:** Computer Using Educators (CUE) on Software Pricing, Apple II Hires Character Generator, Ever-expanding Apple Power, Color Burst for Atari, Mixing Atari Graphics Modes 0 and 8, Relocating PET BASIC Programs, An Assembler In BASIC for PET, QuadraPET: Multitasking?

**July 1981:** Home Heating and Cooling, Animating Integer BASIC Loops Graphics, The Apple Hires Shape Writer, Adding a Voice Track to Atari Programs, Machine Language Atari Joystick Driver, Four Screen Utilities for the PET, Saving Machine Language Programs on PET Tape Headers, Commodore ROM Systems, The Voracious Butterfly on OSI.

**August 1981:** Minimize Code and Maximize Speed, Apple Disk Motor Control, A Cassette Tape Monitor for the Apple, Easy Reading of the Atari Joystick, Blockade Game for the Atari, Atari Sound Utility, The CBM "Fat 40," Keyword for PET, CBM/PET Loading, Chaining, and Overlaying.

**October 1981:** Automatic DATA Statements for CBM and Atari, VIC News,

Undeletable Lines on Apple, PET, VIC, Budgeting on the Apple, Switching Cleanly from Text to Graphics on Apple, Atari Cassette Boot-tapes, Atari Variable Name Utility, Atari Program Library, Train your PET to Run VIC Programs, Interface a BSR Remote Control System to PET, A General Purpose BCD to Binary Routine, Converting to Fat-40 PET.

**November 1981:** SuperPet: A Preview, Japanese Micros: A First Look, Introduction to Binary Numbers, An Apple Primer, Page Flipper for Apple, An Atari Database System, A Program for Writing Programs on the Atari, Atari Textplot, OSI Relocation, The PET Speaks, Inversion Partitioning, A Personal News Service on PET, Bits, Bytes, and Basic Boole.

**December 1981:** Saving Fuel \$\$ (Multiple Computers: versions for Apple, PET, and Atari), Unscramble Game (multiple computers), Maze Generator (multiple computers), Animating Applesoft Graphics, A Simple Printer Interface for the Apple II, A Simple Atari Wordprocessor, Adding High Speed Vertical Positioning to Atari P/M Graphics, OSI Supercursor, A Look At SuperPET, Supermon for PET/CBM, PET Mine Maze Game.

**January 1982:** Invest (multiple computers), Developing a Business Algorithm (multiple computers), Apple Addresses, Lowercase with Unmodified Apple, Cryptogram Game for Atari, Superfont: Design Special Character Sets on Atari, PET Repairs for the Amateur, Micromon for PET, Self-modifying Programs in PET BASIC, Tiny-mon: a VIC Monitor, Vic Color Tips, VIC Memory Map, ZAP: A VIC Game.

**February 1982:** Insurance Inventory (multiple computers), Musical Transposition (multiple computers), Multitasking Emulator (multiple computers), Disassemble Apple Programs from BASIC, Plotting Polar Graphs on Apple, Atari P/M Graphics Made Easy, Atari PILOT, Put A Rainbow in your Atari, Marquee for PET, PET Disk Disassembler, VIC Paddles and Keyboard, VIC Timekeeping.

**March 1982:** Word Hunt Game (multiple computers), Infinite Precision Multiply (multiple computers), Atari Concentration

Game, VIC Starfight Game, CBM BASIC 4.0 To Upgrade Conversion Kit, Apple Addresses, VIC Maps, EPROM Reliability, Atari Ghost Programming, Atari Machine Language Sort, Random Music Composition on PET, Comment Your Apple II Catalog.

**April 1982:** Track Down Those Memory Bugs (multiple computers), Shooting Stars Game (multiple computers), Intelligent Input Subroutines (multiple computers), Ultracube for Atari, Customizing Apple's Copy Program, Using PET/CBM In The High School Physics Lab, Grading Exams on a Microcomputer (multiple computers), Atari Mailing List, Renumber VIC Programs The Easy Way, Browsing the VIC Chip, Disk Checkout for PET/CBM.

**May 1982:** VIC Meteor Maze Game, Atari Disk Drive Speed Check, Modifying Apple's Floating Point BASIC, Fast Sort For PET/CBM, Extra Atari Colors Through Artifacts, Life Insurance Estimator (multiple computers), PET Screen Input, Getting The Most Out Of VIC's 5000 Bytes.

**Home and Educational COMPUTING!** (Fall 1981 and Summer 1981 – count as one back issue): Exploring The Rainbow Machine, VIC As Super Calculator, Custom Characters, Alternate Screens, Automatic Line Numbers, Using The Joystick (Spacewar Game), Fast Tape Locator, Window, VIC Memory Map.

Back issues are \$3.00 each or six for \$15.00. Price includes freight in the US. Outside the US add \$1.00 per magazine ordered for surface postage. \$3.00 per magazine for air mail postage. All back issues subject to availability.

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Or write to **COMPUTE!** Back Issues, P.O. Box 5406, Greensboro, NC 27403 USA. Prepayment required in US funds. MasterCard, Visa and American Express accepted. North Carolina Residents add 4% sales tax.



# 25

## of The Hundreds of Reasons You Ought To Be A **COMPUTE!** Magazine Subscriber:

From "The Editor's Feedback" Card, a monthly part of our continuing dialogue with readers of **COMPUTE!**. These are responses to the question,  
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1. "It is written so a beginner can read and understand it... it's layman oriented..."
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4. "Best and most information on PET..."
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7. "Good balance of application and technical articles..."
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11. "That it is organized well, and covers a broad range of information concerning Atari. Keep it up! please, I'm learning..."
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13. "Best I have found for VIC info..."
14. "Informative articles: 'Secrets of Atari', Game programs, especially programs that teach the reader about the Atari..."
15. "I like all the articles and programs for my computer, the PET. I've learned and found out things about it that I never even thought existed. Other magazines don't have too much material for the PET and, for that reason, I find **COMPUTE!** invaluable..."
16. "The up-to-date hardware reviews..."
17. "Machine language utilities for Atari..."
18. "Articles are terse but understandable and accurate. Utility and applications program listings very helpful..."
19. "The April, '82 issue is my first. I am impressed that you not only acknowledge the VIC-20, you even have applications for it..."
20. "I really enjoy (since I am one) the Beginner's Page..."
21. "The attention it gives to Atari and the easy-to-understand language it's written in..."
22. "It is concerned with explaining programs, not just listing them. It is the best VIC magazine I could buy..."
23. "The new table of contents 'Guide to Articles and Programs' is excellent, particularly the indication of 'multiple computer' items..."
24. "Broad range (sophistication) of programs..."
25. "You don't speak over the average user's head..."

Whether you're just getting started with personal computers, or very advanced, you'll find useful, helpful information in every issue of **COMPUTE!** Magazine. We specialize in supporting the Atari, PET/CBM, VIC-20, and Apple computers. Editorial coverage is expanding to include the TI-99/4A, the Sinclair ZX-81, and the Radio Shack Color Computer.

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# New Products

## BIT 3 Computer Corporation Introduces Two Cards For The Atari

BIT 3 Computer Corporation introduced new word processing capabilities for the Atari 800 with the announcement of two new products – Full-View 80 Display Card and the 32K Memory Plus – which combine to make the Atari 800 a 48K 80-column computer.

The Full-View 80 gives the Atari 80-column capability with upper- and lowercase characters, while retaining the normal Atari 40-column graphics mode. Switching between the two modes is via an on-board softswitch.

The lowercase characters have full descenders, making them easy to read on the monitor screen. The Full-View 80 is fully compatible with BASIC and machine language. 80-column word processing is available through the 80-column version of Letter Perfect.

The 32K Memory Plus card operates with the Atari 400 as well as the Atari 800. It doubles the memory capacity of the Atari 400. On the Atari 800 it allows 48K capacity, while freeing up a slot for the Full-View 80, so that both 80-column display and 48K of memory are available together.

The Full-View 80 is independent of the 32K Memory Plus and will operate in a 32K environment.

See the Full-View 80 Display Card and the 32K Memory Plus Card at your Atari dealer or contact BIT 3 for information.

The price of Full-View 80 is \$349.00; of 32K Memory Plus, \$179.00.

*BIT 3 Computer Corp.  
8120 Penn Ave. South  
Minneapolis, MN 55431  
(612)881-6955*

## Portmaker From Microtech

Portmaker is a small dual serial port I/O board that plugs into any 2532 type ROM socket to add serial RS232 capability to its host computer. Portmaker contains two 6850 ACIA communication parts complete with buffer circuits and a simple baud rate clock. A ROM socket is also included allowing use of the original ROM for all but its highest 16 locations. Portmaker is designed to operate with 650X and 680X computers including the Commodore PET/CBM and the Rockwell AIM.

A special intelligent communications software package to use with Portmaker is available for the PET/CBM. The Standard Terminal Communications Package (STCP), from Eastern House Software, converts the PET/CBM into a data management center. Disk files can be serially transmitted. Received data can be recorded on disk or printer (or both) with complete control of all

peripherals. A realtime clock with display and alarm capability is also included. All STCP routines can be controlled from BASIC, allowing automated telemetry. XON and XOFF protocol control codes are provided.

Portmaker is available in vertical or horizontal mount for \$69.95. A complete package, including a special Portmaker, cable, and the STCP software called COMPACK, is available for \$129.95.

*CGRS Microtech  
P.O. Box 102  
Langhorne, PA 19047  
(215)757-0284*

## Computerware Announces Three Releases For Radio Shack Color Computer

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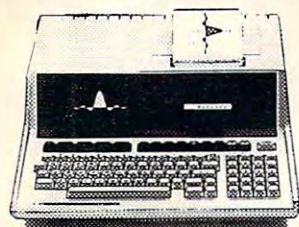
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\*\*\*\*\*

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*Source Telecomputing Corp.  
1616 Anderson Road  
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# HUNTINGTON COMPUTING

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## Softlights

By Fred Huntington

It's an exciting time around the Huntington household this month. We're very proud to announce the birth of our seven-pound five-ounce baby boy, Dale, born on June 6, 1982 in Visalia, California. Baby and Mama are doing just great and Melody (our three-year-old) loves him and calls him "My baby."

The other big news is that I have resigned my position as school principal so that I may devote full time to Huntington Computing.

We're instituting lots of changes to improve efficiency and speed. Our goal is to get everything out of the door within twenty-four hours with no backorders.

To celebrate the excitement, we're offering the following specials: (Always an excuse to run a sale.)

### #9010 Wurst of Huntington

List \$19.99, **now \$9.99**

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### #1970 Chop Lifter (Broderbund)

List \$34.95, **now \$25.69**

### #4002 Verbatim Datalife Disks

(w/plastic box & hub rings)

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### #9140 Great Grandma Huntington

T-Shirt - \$5.00

## GREAT GRANDMA SAYS

Great Grandma Huntington once told me about a computer the Russians invented that was so smart it defected to the West!

Great Grandma also said, "Please buy little Freddy's Wurst of Huntington, because he personally gets two dollars for every one he sells. And, it's good. Just read the review in October 1981 issue of Softalk."

Watch next month's Softlights for the winners of the Great Grandma Huntington contest. There were some fantastic entries.

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## Whole Brain Spelling For The Apple II

Whole Brain Spelling is the first in a series of educational software packages from SubLOGIC. The program has been designed to help the user develop internal visualization skills for improving spelling in a manner as entertaining as it is educationally sound. It effectively utilizes the graphic and color capabilities of the Apple II Plus computer to provide positive user feedback and to emphasize visual aspects of the learning process.

The program itself is extremely user friendly. You can move to any lesson section as desired, choose your own word lists to study, and proceed at your own rate. A main Spelling Menu is accessible from any portion of the program. Lesson instructions are also always available at the touch of a key.

A 2000-word list of practice spelling words is included with Whole Brain Spelling, organized

in order of increasing spelling difficulty. Study words can be printed in upper- or lowercase, in any color you choose. And each correct spelling rewards you with a rainbow of varying, multi-colored letters until the next word is selected.

The standard Whole Brain Spelling program comes complete with 200 ten-word lists, systematically chosen and organized in order of increasing spelling difficulty. Whole Brain Spelling is also available with supplementary word lists in the following categories: Medical, Scientific, Secretarial, Fairy Tale, and A Child's Garden of Words.

The Medical word lists are helpful to anyone involved in the health sciences or the medical profession, and include categories in general medical terms, diagnosis, anatomy, and drugs.

The Scientific word lists are divided into the categories of general science, earth science, life science, and physical science. Each category is graded into four levels of difficulty.

The Secretarial word lists include commonly used real estate, insurance, legal, commercial, and accounting terms organized into four difficulty levels.

For anyone who is a child at heart, the list of Fairy Tale words should prove irresistible. Taken from Grimm's and other fantasy tales, these words will pique your curiosity as well as enrich your spelling skills.

A Child's Garden of Words gives the preschooler through third grader (ages 5-9) a head start in the development of word visualization skills. These are the words most often encountered in beginning reading lessons, and these lists offer a primer to the main word lists found on the standard Whole Brain Spelling program.

A2-ED1 Whole Brain Spel-

ling is available at most computer stores or from SubLOGIC direct. The A2-ED1 requires 48K memory and either an Apple II Plus or an Apple II with Applesoft in ROM (a color monitor is also recommended). Unless you request otherwise, the main word list will be included with each program ordered. The disk price is \$34.95. For direct orders add \$1.50 for shipping and specify UPS or first class mail. Illinois residents add 5% sales tax.

*SubLOGIC Communications Corp.  
713 Edgebrook Drive  
Champaign, IL 61820  
(217)359-8482*

## Scholastic Aptitude Test Package For Atari

Program Design has released *Preparing for the SAT* for Atari 400 and 800 computers. The package teaches students how to take the Scholastic Aptitude Test (SAT) and other aptitude and intelligence tests, develops problem-solving skills, and provides practice in answering questions typically found on such tests.

*Preparing for the SAT* consists of six cassettes, a user's manual, and a copy of the booklet "Making the Grade," all packaged in a special storage container. The six cassettes are:

- "Taking Aptitude Tests" – This cassette explains the purpose of standardized IQ and aptitude tests. It discusses some of the false beliefs surrounding such tests. It describes ways to improve test-taking skills. And it presents a strategy for answering those questions that are most likely to pay off with correct answers.
- "Vocabulary Builders I and II" – These two cassettes are designed to help develop a student's vocabulary and to build skills needed to answer synonym and antonym questions.





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## SOFTWARE

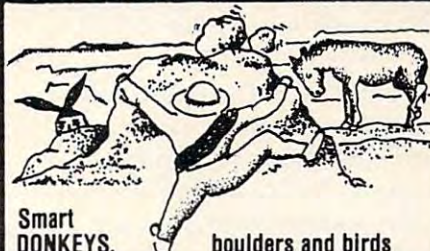
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- "Analogies" – This course describes the common types of analogies and provides practice in analyzing and solving analogy problems.
- "Number Series" – This course teaches students how to analyze number series patterns and provides practice in number series problems.
- "Quantitative Comparisons" – This course reviews mathematics, from elementary arithmetic through algebra and plane geometry, and provides practice in solving the types of mathematics problems found on standardized tests.

With the exception of "Number Series," which is self-testing, there is a test at the end of each course.

*Preparing for the SAT* is available for use on Atari 400/800 computers with a memory of at least 16K. It retails for \$125.00 and is available from computer stores and by mail from PDI (shipping and handling charge extra). Five of the package's courses – Vocabulary Builders I and II, Analogies, Number Series, and Quantitative Comparisons – are also available individually.

*Program Design, Inc.*  
11 Idar Court  
Greenwich, CT 06830  
(203)661-8799

## Hayes Stack Smartmodem 1200

Hayes Microcomputer Products, Inc. introduces the Hayes Stack Smartmodem 1200, a Bell 212A compatible modem that lets RS-232C compatible computers or terminals communicate over telephone lines at 1200 bps.

The Smartmodem 1200 connects directly to the telephone line and an RS-232C port. It is approved by the FCC for direct connection to any U.S. telephone system for both pulse and Touch-

Tone dialing. Both types of dialing may be combined in a single command with pulse used, for example, to access a PBX board, and Touch-Tone used to dial an outside number.

The Smartmodem 1200 is actually two modems in one; it operates at either 0-300 bps or 1200 bps. It is an intelligent system that executes user commands and responds with either decimal digit or English word result codes. The modem can be controlled by any programming language, and it includes all circuitry for auto-dial and auto-answer, thereby eliminating the need for auxiliary equipment and making the Smartmodem 1200 a stand-alone system.

Via an audio monitor, users hear the progress of a call and are alerted to wrong numbers and busy signals. A simple repeat command causes the Smartmodem 1200 to automatically redial a number. Indicator lights on the modem's front panel allow a visual check of its operational status.

Power-on default options are controlled by the position of eight switches, four of which can be overridden by software commands. Options include full or half duplex, enable auto-answer, and result code type. Unique "Set" commands allow selection and change of additional parameters such as dialing speed, escape code character, and number of rings before the modem answers a call.

The Smartmodem 1200 has a two year limited warranty. Included with the Smartmodem 1200 unit are: a power pack, one modular telephone cable to con-

nect the unit to the telephone, and an owner's manual. Suggested retail price is \$699.00.

The design permits other Hayes components to be stacked on top of the Smartmodem 1200.

*Hayes Microcomputer Products, Inc.*  
5835 Peachtree Corners East  
Norcross, GA 30092  
(404)449-8791

## The Cosmic Balance For Apple And Atari

Strategic Simulations Inc. has introduced The Cosmic Balance, one of the first four games in their new Rapidfire line.

Each player assumes the dual role of commander and architect of a starship fleet. For a ship of given size, the various parameters and trade-offs include: engine (for power), drives (for speed and maneuverability), weapons (such as phasors, disruptor bolts, plasma torpedoes, seeker missiles, and unmanned fighter swarms), defense belts, shields, transporters, and space marines.

There is a crew efficiency factor which affects the ability of a ship in battle. Ships with greater hull space have more room for recreation, allowing for greater crew morale and efficiency.

There is no best ship in this game – only one designed with optimum compromises to suit a player's style of warfare.

A typical game can be played in as little as ten minutes. With either the two-player or solitaire scenario, the semi-automated graphics and rapid execution of ship-to-ship combat are features you'll use.

The Cosmic Balance sells for \$39.95. The game includes a diskette, rule book, and player aid cards. It is designed for the 48K Atari 400/800 computers and for the 48K Apple II Plus, Apple III, or Apple II with





## Applesoft ROM card.

*Strategic Simulations Inc.*  
465 Fairchild Drive, Suite 108  
Mountain View, CA 94043  
(415)964-1353

## Commodore Bulletin Board

The Commodore Bulletin Board System has been introduced to turn a user's PET or CBM into a host communications system capable of sending and receiving messages, programs, SEQ and WordPro files.

Developed by Steve Punter, author of WordPro, the program has several other features, including user Log and daily usage Log, formatted messages, optional private messages and protected programs, optional password sign-on, a bulletin section, complete editing func-

tions, and more.

The system may be used in a variety of applications, such as a program distribution service for business or education, a general message service for community computer users, or a private system for clientele or employee communications.

The package comes with sample bulletins and HELP files, remote terminal programs, and a 28-page manual that includes schematics for a simple telephone answering device.

*Commodore Business Machines Ltd.*  
3370 Pharmacy Ave.  
Agincourt, Ontario M1W 2K4  
(416)499-4292

## Two VIC Games From ComputerMat

ComputerMat has announced two new arcade games for the

VIC-20 called Alien Invasion and Snakeout. They run on the standard VIC-20 and include color, graphics and sound.

Alien Invasion has 20 different levels of play and lets you move your laser into position to defend against the invader forces descending from space. Each invader has a different point value, and bonus points are scored if you destroy the invading forces in the correct order. An invader game with a new twist.

Snakeout provides a slithering snake that moves around the screen to munch blocks for points that appear at random. The snake's tail keeps getting longer and will get you in the end. Snakeout can be played by one player, or two if you desire. The tape also includes the game Trapper as a bonus.

Each cassette is priced at \$9.95; all orders should include

TCE Presents

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\$1.00 per order for shipping.

*ComputerMat  
Box 1664 Dept. P  
Lake Havasu City, AZ 86403*

## 12" Green Screen Monitor From Leading Edge

The new 12" green screen monitor has a suggested retail of \$99.00. The 13 pound CRT features a composite video signal and a display format of 1920 characters (80 char. x 24 lines). The dimensions are 40.0 cm (w) x 28.5 cm (h) x 32.0 cm (d).

Leading Edge has a one year, no-questions-asked return/replacement plan should the unit fail.

*Leading Edge Products, Inc.  
225 Turnpike Street  
Canton, MA 02021  
(800)343-6833*

## EPYX Game On ROM Cartridge For The Atari

Alien Garden, a new strategy-action game, has been released by EPYX for the Atari 400/800.

As a hungry alien, the player is challenged to survive in a world thriving with enticing crystal life forms. Some crystals are edible, but others explode, killing the player. To gain the most points, the player must decide whether to sting, avoid, or eat each type of crystal. The faster he does, the more rapidly his score increases.

A wealth of crystals – up to 19 unique species – complicate the player's survival. Nine skill levels add to the challenge.

Alien Garden combines joystick action with arcade-style full color graphics and sound. The player hears the shattering and tinkling of crystals as they grow, shrink, and explode before his eyes.

Alien Garden is available on

ROM cartridge for the Atari 400/800 for \$39.95 from:

*EPYX  
P.O. Box 4247  
Mountain View, CA 94040*

## Conferences Scheduled For Educators

EdCOM '82 – the National Computer Conference and Expo for Educators – will be held October 21-24, 1982 at the L.A. Convention Center, Los Angeles, California.

EdCOM '82 will feature over 200 seminars, workshops, demonstrations, exhibits, and hundreds of computers for in-depth tutorials and hands-on sessions.

Presentation topics designed for educators at all levels of expertise will include computer aided instruction, administrative uses, classroom management, programming, research applications, authoring languages, literacy, and more. All of these sessions will be conducted by nationally recognized professionals in the field of computer education.

For more information contact:

*Jayne LaFountain  
EdCOM '82  
2629 N. Scottsdale Road  
Scottsdale, AZ 85257*

\*\*\*\*\*

The Minnesota Educational Computing Consortium (MECC), involved in the implementation of instructional computing on a local, regional, and statewide basis, is sponsoring a conference (MECC '82) to share a decade of experience serving educators. The conference, scheduled for December 1 and 2, 1982 in Minneapolis, will be dedicated to practical sessions directed at educators involved in promoting the use of computers in schools. Sessions will cover in-service

training techniques, software and hardware evaluations, classroom teaching strategies and activities, K-12 curricula planning, and promotional events, including computing contests for teachers and students. Banquet sessions will feature addresses by Steve Jobs, Chairman of the Board of Apple Computer, Inc. and Roger Badeschar, President of Atari, Inc.

In addition to the main conference, one day pre- and post-conference workshops will be offered on Using Computers in the Classroom, Advanced Microcomputer Programming, In-service Training Techniques, and Courseware Development. All conference activities and workshops will provide participants with the ideas, instruction, and materials to enhance instructional computing in their home institutions. For more information and registration forms, write:

*MECC '82  
2520 Broadway Drive  
St. Paul, MN 55113*

## The International Software Directory Goes On-line

The International Software Database is now available on-line through Lockheed Dialog. As is the hardcopy, it is fully searchable by machine, operating system, subject, vendor and price. And now, with this on-line service through Lockheed, it has full text searching by key words in any or all fields. This feature helps you find the piece of software you need to run on the system you have and within the budget allowed.

Lockheed Dialog is an international information retrieval service making the software database available to its subscribers. This database is updated





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BMC 12" COLOR MONITOR	\$289.95
ATARI 400 16K	\$289.95

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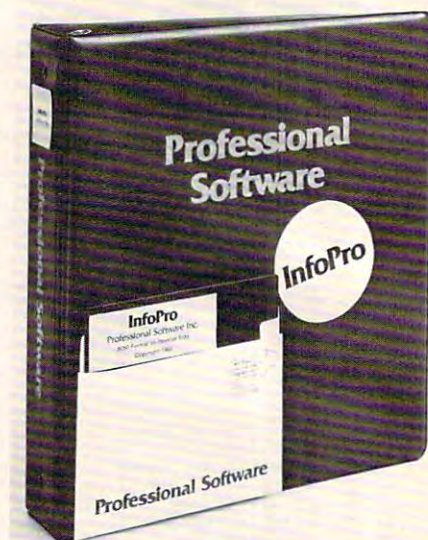
– *WordPro-ML* (Multi-Lingual) is designed specifically for the Commodore 8000 series computer. It gives the user access to word processing in five languages – English, German, French, Spanish, and Italian. The user can also switch back and forth

between languages without losing the text in memory.

– *WordPro-Mail List* is designed for mailing list applications on Commodore computers and for use in conjunction with WordPro software. It includes a mini WordPro text editor and permits automatic entry, without re-typing, of mailing lists already stored on disk. Suggested retail price is \$195.

– *InfoPro*, for Commodore 8000 and 9000 series computers, has a Super Scan feature for rapid search of stored data for specific information. It prints user-defined reports with specific formats and can create personalized letters or documents. Suggested retail price is \$295.

– *The Administrator*, for the Commodore 8032, links “master” records to “transactional” records and tracks transactional history.



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## Computer Programming Contest

The American Heart Association, Greater Boston Division, is taking a new approach to heart health education – an electronic approach. The American Heart Association, in conjunction with *Classroom Computer News*, has announced a “Heart Health Computer Programming Contest” to solicit the development of programs on health education for eventual national distribution to schools.

Programs should be aimed at an elementary, junior high, or high school audience, and should deal with ways in which heart disease can be prevented. The Surgeon General of the United States has recommended prevention of heart disease as a national priority, and the Heart Association has started its campaign to educate youngsters about the importance of good habits early



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The people who dared to teach Atari to talk are again challenging the microcomputer establishment with the VOICEBOX Speech Synthesizer for Apple. This low cost intelligent peripheral can speak thousands of words unassisted, generated directly from its firmware ROM dictionary located on its plug-in card. This means that speech, with variable intonation and speed, can be used in any of your apple programs without ever having to bother loading a disk. And, in case you want to expand your dictionary to include unusual words or words in foreign languages, you can easily define them with our 64 phonemes and store them by the thousands on one of the six special dictionaries provided for on our disk.

In addition your VOICEBOX for Apple can be easily coded to sing on key with uniform barlengths and you can store (record) your songs on disk, retrieving and modifying sections whenever you want. With the disk system, you'll also enjoy an educational random sentence generator and graphic speech animation! The VOICEBOX for Apple will run on 32K Apple II with Applesoft or Apple II Plus systems equipped with sixteen-sector disk drives. VOICEBOX for Apple comes with loudspeaker and disk. The Alien Group also makes a less expensive VOICEBOX for Apple with all features (including expandable disk dictionary), but excluding firmware ROM and singing capability. Speaker is optional on this unit.



For Atari users, the VOICEBOX for 16K and up Atari plugs directly into the serial port. No extra cables are needed and no speaker is needed since the speech comes directly over your TV monitor. This unit has all speech synthesis features except singing and firmware ROM.

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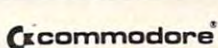
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For further information, write before December 1, 1982 to:

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American Heart Association  
Greater Boston Division  
33 Fourth Avenue  
Needham, MA 02194

## Apple Software For Children

Three software programs for use in the home by children three to 13 have been introduced by The Learning Company.

The new, interactive programs – Bumble Games, Bumble Plot, and Juggles' Rainbow – were developed for use on Apple personal computers. The learning programs use color graphics and music to encourage participation by children and parents.

The new programs are additions to The Learning Company's "Building Blocks" software. The building block structure of the programs guides children through progressively more difficult learning games.

*Bumble Games* is a set of six colorful number games guided by Bumble, a creature from the planet Furrin. These games help children from four to ten learn how to describe locations on a map, to understand charts and graphs, and to do basic computer graphics. Children also learn basic math skills from the program. Its U.S. price is \$60.

*Bumble Plot* also features the

Bumble character and is a set of five games using skills learned in Bumble Games. It expands the child's learning experience by using negative and positive numbers. Children from eight to 13 are asked to identify and pair numbers, read a sonar map, and draw on the screen using the game's computer graphics. The U.S. price is \$60.

*Juggles' Rainbow* introduces children from three to six to prereading skills and gives them a basic understanding of computers. Children learn the concepts of above/below and left/right as they generate patterns with playful, colorful graphics and music. They also work with lines and circles that help them identify the letters *P*, *D*, *B* and *Q*, the most difficult in the alphabet. The U.S. price is \$45.

\*\*\*\*\*

The first two offerings in a family of "Discovery Tool" microcomputer software programs for use by children from six to 13 have also been introduced by The Learning Company. The two programs – Gertrude's Puzzles and Rocky's Boots – were developed for use on Apple personal computers.

"Discovery Tool" software features an animated graphics editor that allows children to create animated objects and move through many connecting rooms via the computer screen. The proprietary software provides continuous, interactive feedback and enables players to create new shapes and colors, draw new characters, and even devise whole new games.

The programs stress logical thinking and help expand a child's potential for creative thinking. The programs can be enjoyed by those as young as four and are challenging even to adults.

*Gertrude's Puzzles* features Gertrude the Go-Getter Goose, a

labyrinth of rooms, and objects of various shapes and colors. By moving Puzzle Pieces players learn to form color and shape patterns. The progressively challenging puzzles involve thinking about the colors and shapes of the pieces on the screen. To begin each puzzle, Gertrude flies off and returns with a new set of shapes. The games help children develop reasoning skills and learn to solve problems with incomplete information by analyzing what they see.

*Rocky's Boots* challenges players to build point-scoring logic machines in an arcade game setting. Players build machines with conventional logic symbols for *and*, *or*, *not* and *flip-flop*. While building, they learn about the basics of computer circuits. The object of the game is to build the most efficient machines.

The U.S. price of each program is \$75.

The Learning Company  
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## Disk Based Data Manager

MicroSpec Ltd. has released its disk Data Manager for the Commodore VIC-20. It is a comprehensive data management system that allows users to define and manage their own data base and record entries on diskette. The system's menu includes:

- *Create a File* builds the data base and creates a description file on the disk.
- *Add a Record* allows entry of records to the disk.
- *Delete a Record* deletes records from the file and makes the record's space available to the user.
- *Change a Record* allows the user to change or edit any previously entered record.
- *Browse Through the File* allows



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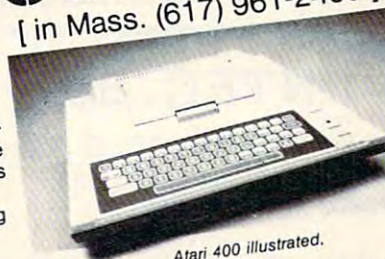
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the user to scan or sequentially review the records in the data base.

— *Search the File* allows the user to search the data base and display specific records on the screen according to user criteria.

— *Print the File* allows users to print a hardcopy report according to their own specifications. The order, limit, number of fields, field position, and optional totals by numeric fields may be specified.

— *Exit* saves the binary record key map and returns to BASIC.

The system will store up to 1200 records on a single disk. Any record can be retrieved and displayed directly without having to read any intervening records. The system requires a minimum of 8K free memory to operate. The Disk Data Manager System sells for \$59.95, complete with documentation and a storage binder. MicroSpec Ltd. also offers the system on any Commodore CBM or PET, the new Commodore 64, the Atari 800, the Apple II, and the IBM Personal Computer.

MicroSpec Ltd.  
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## Mathematics Review For Standardized Tests

Program Design has released *Quantitative Comparisons* for Atari 400 and 800 computers. This course prepares students for the type of math problems commonly found on the Scholastic Aptitude Test (SAT) and on other aptitude and intelligence tests. It reviews the principles that form the basis of mathematics from beginning arithmetic through elementary algebra and plane geometry.

Many of the mathematics questions found on standardized tests ask test-takers to compare two quantities or mathematical expressions, and indicate which of the two is greater. There are four possible answers:

1. Quantity A is larger than Quantity B
2. Quantity B is larger than Quantity A
3. Quantity A equals Quantity B
4. Which quantity is larger cannot be determined from the information given

The questions in *Quantitative Comparisons* are presented in this format. The course includes

seven lessons and a final test. Each lesson tests a person's knowledge in one or more mathematical areas:

- Lesson 1 – Numbers and Arithmetic
- Lesson 2 – Roots and Exponents
- Lesson 3 – Fractions
- Lesson 4 – Decimals and Percent
- Lesson 5 – Angles and Plane Geometry
- Lesson 6 – Algebra
- Lesson 7 – Graphs and Units of Measurement

The course includes a booklet that contains explanations of the various types of problems. For example, here is a typical problem from *Quantitative Comparisons*:

Which is bigger?

- |                       |        |
|-----------------------|--------|
| A                     | B      |
| 6.5%                  | 65/100 |
| 1. A is larger than B |        |
| 1. B is larger than A |        |
| 3. A equals B         |        |
| 4. Can't determine    |        |

The answer is 2: B is bigger than A. If the student doesn't understand the problem, he or she is told to turn to Explanations 46 and 47 in the booklet, which state "A percent is a fraction with a denominator of 100" and "To write a fraction as a percent, change the fraction to a decimal.



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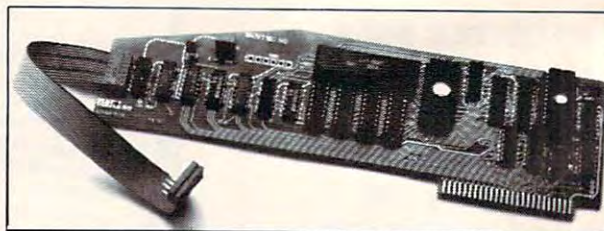
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Move the decimal point two places to the right. Add the percent symbol." Each statement is followed by mathematical equations illustrating the principle.

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*Quantitative Comparisons* is for use on Atari 400/800 computers with a memory of at least 16K. It retails for \$19.95 (cassette) or \$26.50 (disk) and is available from computer stores and by mail from PDI (shipping and handling charge extra).

*Program Design, Inc.*  
11 Idar Court  
Greenwich, CT 06830  
(203)661-8799

## IDS Introduces Microprism Printer

The new Microprism dot-matrix printer from Integral Data Systems, Inc. offers print quality approaching that of a daisy-wheel printer at a lower price than has previously been available. It provides higher quality output



without extra printer features.

The high speed and graphics capabilities of a dot-matrix printer have been combined with the print quality approaching that of a daisy-wheel. IDS calls this print-

ing technique Maisey. Maisey describes a dot-matrix printer which can print correspondence-quality text in a single pass.

Standard Microprism printer features include: Dotplot graphics, serial RS232 and Centronics-compatible parallel interface, automatic line buffering with 1400 bytes standard, 75 cps in correspondence-quality and 110 cps in high-speed data mode, and Maisey (dot-matrix printing of correspondence-quality text in a single pass). Microprism is priced at \$799.

*Integral Data Systems, Inc.*  
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## Sterling Swift Introduces DIAL-A-COMMAND

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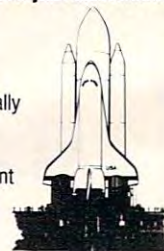
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mand reference tool, has been introduced by Sterling Swift Publishing Company.

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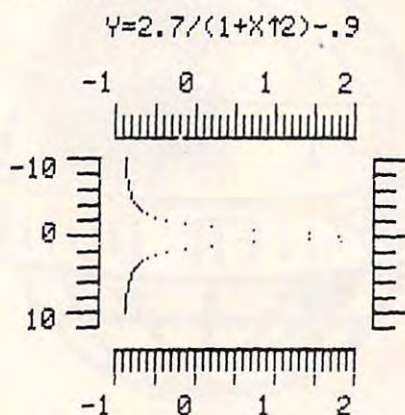
The DIAL-A-COMMAND, soon available from dealers, may now be ordered directly from Sterling Swift. Price is \$9.95.

*Sterling Swift Publishing Company  
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Includes instructions and demonstration program. The price is \$10.00.

*Scientific Software  
Dept. N, 525 Lohnes Dr.  
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## Conference Highlights Effective Use Of Small Computers

Effective use of small computers in a variety of functions will be the theme of the National Conference on "Using Small Computers: Implementing Integrated Information Systems," to be held at the Hyatt Regency Crystal City, Arlington, Virginia, on October 18-20, 1982.

Emphasis of the three-day meeting will be on effective use of small computers in areas such as office automation, decision support systems, word processing, training, and graphics. The

conference will also focus on strategies that provide reliable, effective, and economical information systems, and increase the quality and effectiveness of software for various corporate functions.

Two full days will be devoted to presentations by experienced users and experts on such topics as application planning and implementation strategies; selecting effective small computer systems; using small computers in networks; and integrating communications, video, and small computers. Three pre-conference workshops will provide opportunities for in-depth studies on decision support systems; networks and small computers; and selecting software for small computers.

A special feature of the conference will be an exhibit of hardware and software for small computers. In addition, time has been set aside for interaction between attendees and successful users.

*Infosystems*, the Information Systems Magazine for Management, is sponsoring this conference, to draw together user information on small computers and assist those who will be faced with making MIS decisions in the near future.

For further information, contact the Conference Manager:

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For additional information on Stick Stand (Model No. ATH1000), contact:

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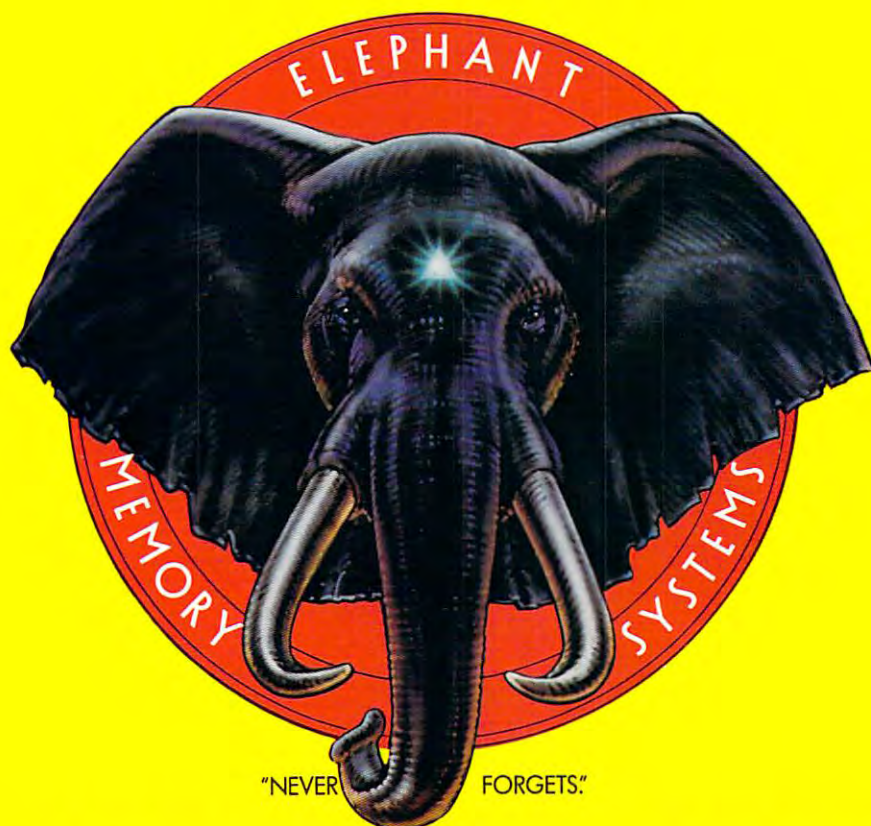
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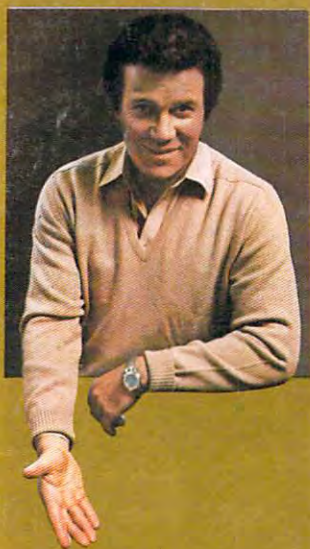
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# COMMODORE VIC-20®

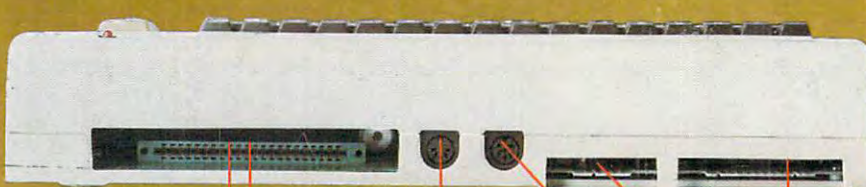
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—WILLIAM SHATNER

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PRINTER  
COMMODORE DATACASSETTE  
MODEM FOR TELEPHONE AND TELECOMPUTING

### VIC-20® VS. OTHER HOME COMPUTERS

Product Features	Commodore VIC-20	Atari® 400™	TI® 99/4A	TRS-80® Color Computer
Price*	\$299.95	\$399.00	\$454.00	\$399.00
Maximum RAM Memory	32K	16K	48K	32K
Keyboard Style	Full-Size Typewriter Style	Flat Plastic Membrane	Full-Size Typewriter Style	Calculator Style
Number of Keys	66	57	48	53
Programmable Function Keys	4	0	0	0
Graphic Symbols On Keyboard	62	0	0	0
Displayable Characters	512	256	192	256
Microprocessor	6502	6502	TMS9900	6809
Accessible Machine Language	YES	YES	YES	YES
Upper/Lower Case Characters	YES	YES	YES	NO
Operates with all Peripherals (Disk, Printer and Modem)	YES	NO	YES	YES
Full Screen Editor	YES	YES	YES	NO
Microsoft Basic	Standard	N/A	N/A	\$ 99.00
Telephone Modem	\$110.00	\$399.95	\$450.00	\$154.95

\*Manufacturer's suggested retail price Mar. 1, 1982



Read the chart and see why COMPUTE! Magazine<sup>1</sup> calls the VIC-20 computer "an astounding machine for the price." Why BYTE<sup>2</sup> raves: "...the VIC-20 computer unit is unexcelled as a low-cost consumer computer." Why Popular Mechanics<sup>3</sup> says "...for the price of around \$300, it's the only game in town that is more than just a game." And why ON COMPUTING INC.<sup>4</sup> exclaims: "What is inside is an electronic marvel... if it sounds as if I'm in love with my new possession, I am."

The wonder computer of the 1980s. The VIC-20 from Commodore, world's leading manufacturer of a full range of desktop computers. See the VIC-20 at your local Commodore dealer and selected department stores.

1 April '81 issue 2 May '81 issue 3 November '81 issue 4 Fall '81 issue

Commodore Consumer Products Division  
487 Devon Park Drive, Wayne, PA 19087  
Canadian Residents: Commodore Computer Systems  
3370 Pharmacy Ave., Agincourt, Ont., Canada, M1W 2K4

Please send me more information on the VIC-20.

Name \_\_\_\_\_

Address \_\_\_\_\_

City \_\_\_\_\_

State \_\_\_\_\_

Zip \_\_\_\_\_

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