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& FOREIGN

OCTOBER 1987

VOLUME 5
NUMBER 10

**NEW IBM: PS/2 MODEL 25
MAC SE: WITH NEW HYPERCARD**

FAMILY & HOME OFFICE

COMPUTING™

Women in Business at Home: Juggling Career and Family

Home-Office ShopTalk

**Car Shopping
On CompuServe**

**Get More
From DOS**

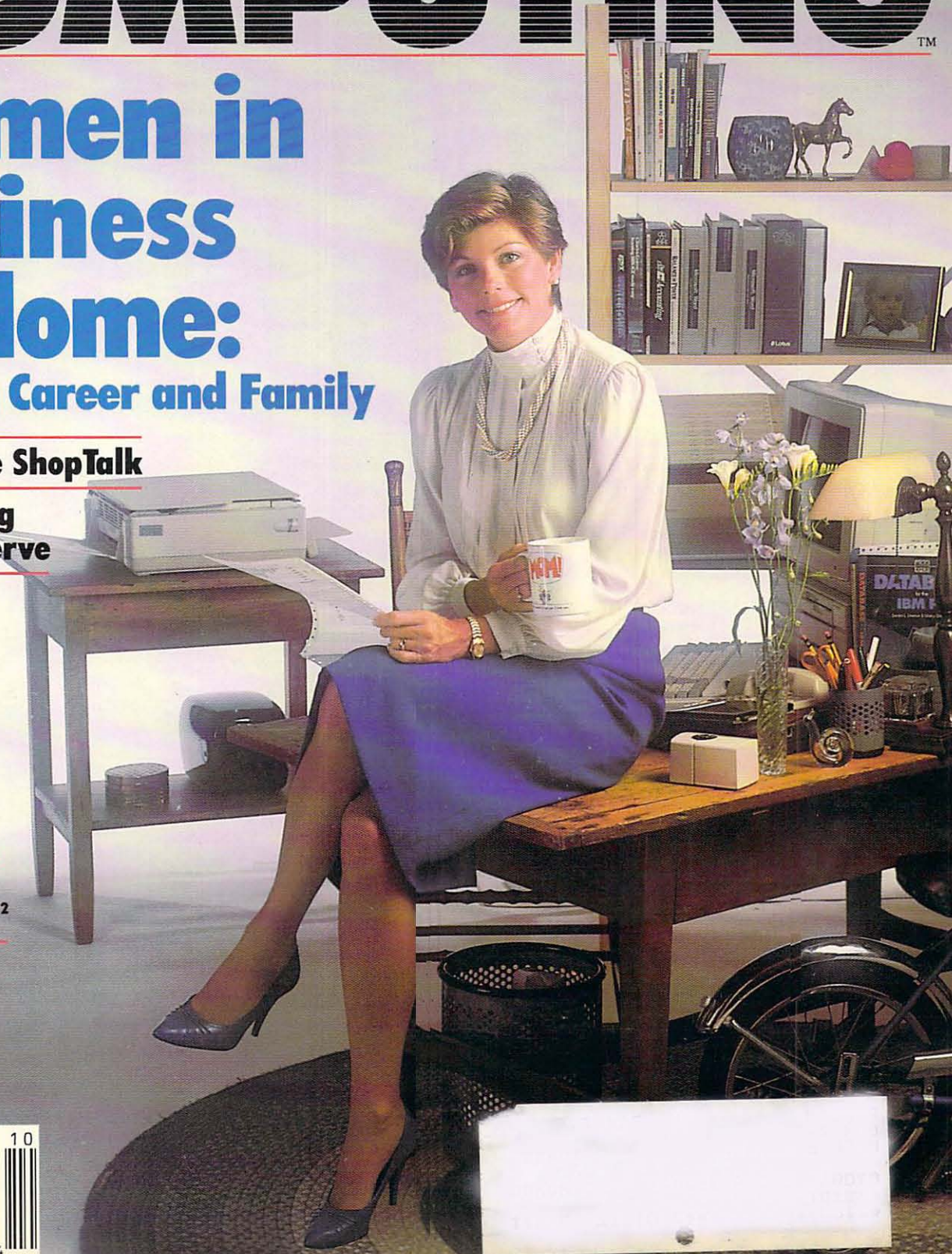
**Invest
Via Modem**

**Expanded
Product
Previews**

**Review: PC's
Limited 286¹²**

**Software
Reviews**

**Original
Programs**



FAMILY & HOME OFFICE COMPUTING™

COVER STORY**43**

WOMEN WHO JUGGLE IT ALL

Four mothers tell how their computer-equipped home businesses have made it possible for them to sustain exciting careers, manage family and home responsibilities, and reap the rewards of independence.

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Do you need quality printouts? Compare thirty-eight 24-pin printers for speed, paper handling, fonts and typestyles, color capability, graphics resolution, buffer size, software compatibility—and price.

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NO LAPTOP IS AN ISLAND

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HOME-OFFICE SHOPTALK

by Joanne Pratt

Small-business expert Joanne Pratt answers readers' questions about setting up, maintaining, and expanding their home businesses.

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TAKE THE EASY STREET TO WALL STREET

Use your computer to review your portfolio, look for new investment prospects, check out tips from your broker, and even place buying orders. PLUS: Portfolio-management and stock-analysis programs.

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MACINTOSH SE

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60PC-COMPATIBLE REVIEW
SERIES: PC'S LIMITED 286¹²

High quality, loads of options, outstanding company support, and a good price make this AT compatible worth buying.

62NEW FROM IBM:
PERSONAL SYSTEM/2
MODEL 25

Preview of this compact, more affordable addition to IBM's line of Personal System/2 computers.

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NEW PRODUCTS

PREVIEWED: The IBM PC Convertible Model 3; Hayes's new 9600- and 2400-baud V-series modems; Phone-Mate's Minimate multifunction telephone; Sharp's UX-80 copier/facsimile machine; the Smith Corona XL-2000 electronic typewriter; The Complete Answering Machine; and The Factory, a nine-in-one desk accessory.

SOFTWARE**72**

SOFTWARE GUIDE & REVIEWS

A guide to 24 new and noteworthy programs for Home Business & Productivity, Education & Creativity, and Entertainment, plus longer Reviews of several programs.

SOFTWARE APPLICATIONS & UTILITIES**51**GETTING MORE FROM
MS-DOS

How you can benefit from DOS shells, those friendly programs that bypass DOS's "dreaded A-prompt," and pipe you straight in to your applications. NEXT MONTH: A guide to DOS-shell software.

TELECOMPUTING**20**

BUYING A NEW CAR?

Dispel car-shopping anxiety by visiting the "New-Car Showroom" on CompuServe. PLUS: A sample CompuServe screen comparing features, options, and prices of Ford's Tempo GL and Chevrolet's Cavalier RS Sedan.

EDUCATION**24**HOME-SCHOOL
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Use your local library to try software and hardware before you buy.

ENTERTAINMENT**28**

Hot news from the software companies, game strategies, and announcements of games recently converted to new computers.

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FAMILY COMPUTING

This new department carries on the tradition of FAMILY COMPUTING. We'll answer your computing questions and present first-hand accounts of families using their computers for the full spectrum of applications. THIS MONTH: The Koskis of Nashville, Tennessee.

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MACHINE SPECIFICS

News, opinions, quotes, and rumors from industry analysts, plus new products from and for Apple, Atari, Commodore, IBM and MS-DOS, Tandy, and orphaned computers.

83

THE PROGRAMMER

News and tips for programmers; "This Month's Programming Coverage" chart; and our program-status line. PROGRAMS THIS MONTH: *Home Inventory Manager* (Productivity Program); *Ghostwriter* and *Jack-O'-Lantern* (Halloween Programs); *Crossword Puzzler* (clues); and *The Duelin' Computer* (Microtones).*

*See program for specific computer models and hardware requirements.

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COVER PHOTOGRAPH BY JOEL WHITE

FAMILY & HOME-OFFICE COMPUTING (ISSN 0738-6079) is published monthly by Scholastic Inc., 730 Broadway, New York, NY 10003. Subscriptions: in the U.S. and possessions, 12 issues for \$19.97; outside the U.S. add \$6 (surface mail) or \$25.97 (airmail). Office of publication: 351 Garver Rd., P.O. Box 2700, Monroe, OH 45050-2700. Second-class postage paid at Monroe, OH 45050-9998 and additional offices. POSTMASTER: Send address changes and notice of undelivered copies to FAMILY & HOME-OFFICE COMPUTING, P.O. Box 2511, Boulder, CO 80302. Printed in U.S.A. Copyright © 1987 by Scholastic Inc. All rights reserved.

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We warehouse 60,000 items at American Design Components - expensive, often hard-to-find components for sale at a fraction of their original cost!

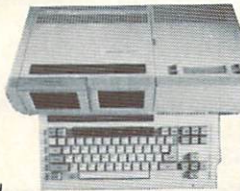
You'll find every part you need - either brand new, or removed from equipment (RFE) in excellent condition. But quantities are limited. Order from this ad, or visit our retail showroom and find exactly what you need from the thousands of items on display.

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ADAM COMPUTER

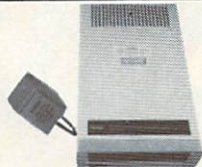


(Less printer)

No wiring nec. (just plugs together). Hook-up diagram included. Includes: Keyboard, 1 cassette digital data drive, 2 game controllers, power supply, and one cassette. Capable of running CPM, has built-in word processor.

Item #7410 Complete - \$99.00

ADAM 5 1/4" DISK DRIVE



Gives your Adam fast, reliable data storage & retrieval. Can hold up to 160K bytes of information. Uses industry-standard SS/DD disks. Connects directly to your Adam memory console. Comes w/disk drive power supply, Disk Manager disk and owner's manual.

Mfr - Coleco, model 7817
Item #12830 Like New - \$199.00

ADAM PRINTER



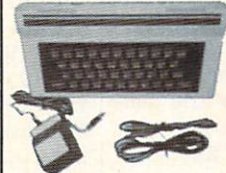
Complete, less top cover plate. Friction feed. Takes standard paper 8 1/2" x 11". (Customer returns; tested - operational.)

Item #8839 \$69.50

ADAM Accessories . . .

- Data Drive - Item #6641 \$19.95
- Printer Power Supply - Item #6642 \$14.95
- ASCII Keyboard - Item #6643 \$19.95
- Adam Link Modem - (Software included.) Item #12358 \$29.95
- Auto-Dialer Address Book - Item #12365 \$19.95
- Adam Cassettes - (Consisting of Smart Basic, Buck Rogers & blank cassette.) Item #7786 BAKER'S DOZEN - \$19.95
- Controllers - (Set of 4) Item #7013 \$9.95

PC 8300 HOME COMPUTER (Advanced version of the Timex 1000)



42-key mechanical keyboard (not membrane). Contains 2K of RAM. Reverse video, Z80A, 6.5MHz processor, ROM 8K BASIC. Graphics capability/sound-music, TV or monitor. Joystick input operates on 115 VAC. Includes: AC adapter, TV cable, and pair of cassette cables. Will run all prerecorded tapes for Sinclair/Timex 1000-ZXB1. Mfr - Power 3000. In orig. boxes.

Item #10336 \$29.95 New

Accessories . . .

- * 16K RAMPACK upgrade Item #10337 \$9.95 New
- * 32K RAMPACK upgrade Item #12148 \$19.95 New
- * COLOR PACK Item #12147 \$19.95 New

15" COMPOSITE VIDEO MONITOR



15", green phosphor, high resolution (12 lines center) and bandwidth from 10Hz to 30Hz ± 3dB. Operating volt.: 120/240VAC, 50/60Hz., 65VA max. Mfr - Motorola - Alpha Series

Item #10044 \$34.95 New

5 1/4", 1.2 Mb. AT HALF HT. DISK DRIVE



48/96 TPI (IBM® Compatible)

Double sided, single/double density; 80 track.

Mfr - Panasonic #JU-475

Item #10005 \$119.00 New

5 1/4" 1/2 HT. DISK DRIVE



96 TPI, DS/Quad Density (DOS 3.2 Compatible)

Tandon TM55-4 DS/Quad

Item #1904 \$79.00

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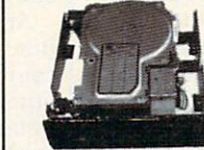
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3 1/2", 10Mb HARD DISK DRIVE (IBM® Compatible)



Fits standard 5 1/4" spacing. Shock mounted. High speed, low power. Mfr - Rodime #R0252F

Item #10151 \$159.00 New

Controller Card for above

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IBM® PC/XT KEYBOARD



- Illuminated cap and number lock indicators.
- Low profile design.

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Be the Programmer

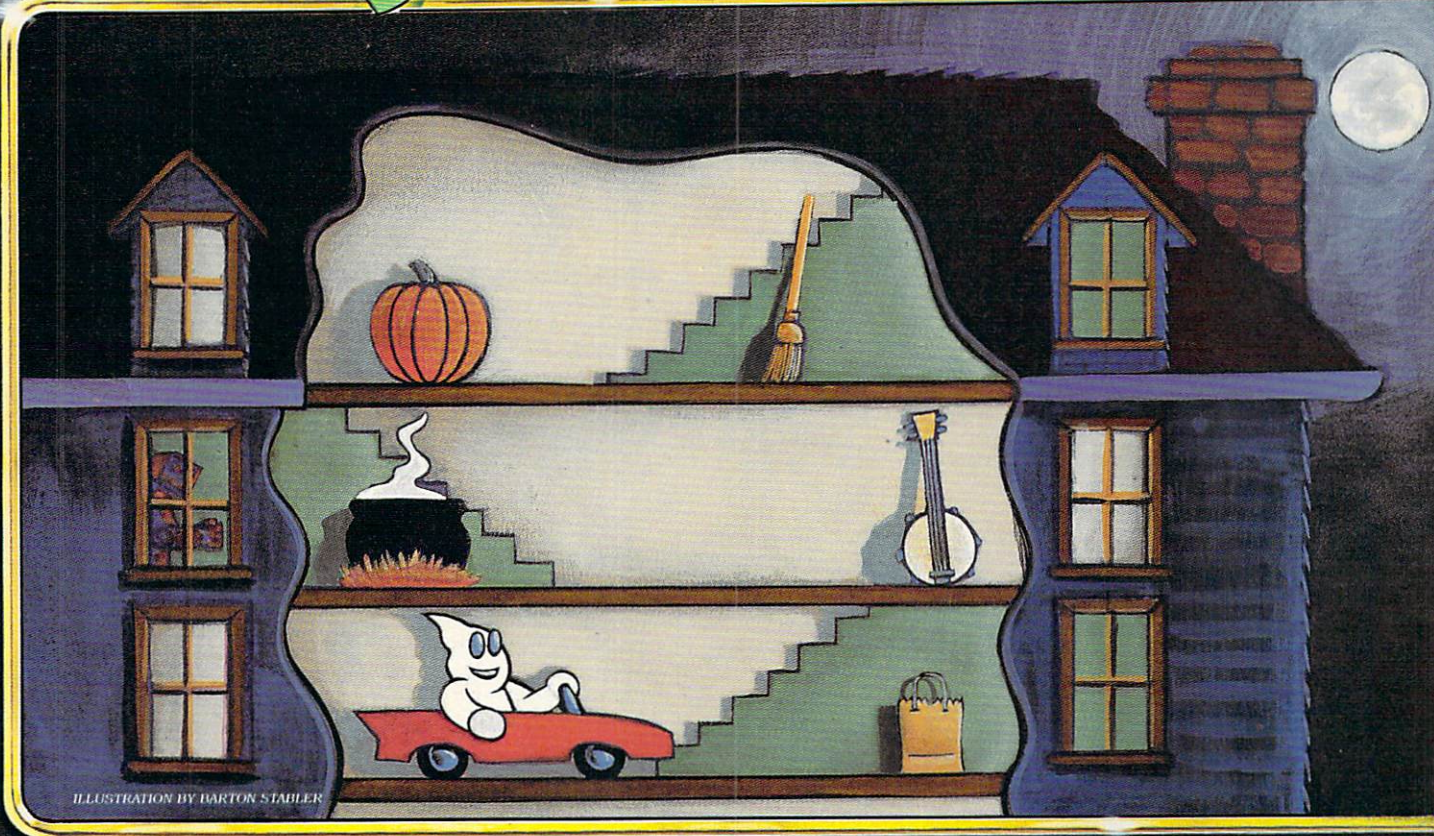


ILLUSTRATION BY BARTON STABLER



O C T O B E R



FYI

Page 84

Information about our programs and news for programmers.

PRODUCTIVITY PROGRAM

Page 86

Use our *Home Inventory Manager* program to keep up-to-date records of your valuables.

TIPS TO THE TYPIST

Page 96

How to type in our programs.

HALLOWEEN PROGRAMS

Page 96

Two Halloween treats include *Ghostsitter* for the IBM and a colorful *Jack-O'-Lantern* graphic.

MICROTONES

Page 100

The Duelin' Computer will make your computer room sound like a barn at a bluegrass festival.

ILLUSTRATION BY JIM CHERRY III

Cherry

THIS MONTH'S PROGRAM COVERAGE

Computers†	Jack-O'-Lantern (pg 98)	Ghost-sitter (pg 96)	Home Inventory Manager (pg 86)	Puzzle Clues (pg 100)	The Duelin' Computer (pg 100)
Adam	★			★	
Apple IIcs	★		★D p	★	
Apple II series	★		★D p	★	
Atari 800/XL/XE	★		Nov '87	★	★
Commodore 64/128	★		Nov '87	★	★
IBM PC FAMILY					
IBM PC	★	★A C	★D p	★	
IBM PCjr	★	★C	★D p	★	★T
IBM PS/2 Model 30	★	★A	★D p	★	
IBM PC COMPATIBLES					
Amstrad PC1512DD	★	★C	★D p	★	
Blue Chip	★	★C	★D p	★	
Commodore PC-10	★	★C	★D p	★	
Epson Equity I	★	★C	★D p	★	
Kaypro PC-10	★	★C	★D p	★	
Leading Edge Model D	★	★C	★D p	★	
Panasonic FX-600	★	★C	★D p	★	
Tandy 1000/EX/SX	★	★C	★D p	★	★T
Vendex Turbo 888-XT	★	★C	★D p	★	
Zenith Z148PC	★	★C	★D p	★	
Macintosh			★D p	★	★
Tandy Color Computer	★			★	
TI-99/4A	★				★

Key ★ Program in this issue for this computer. A Advanced BASIC required, C Color monitor required, D Disk drive required, p Printer optional, T Television or monitor with speaker required, † see below for specific models.

THE SYSTEMS WE TEST ON

Every FAMILY & HOME-OFFICE COMPUTING program is thoroughly tested before publication. The exact systems we use during the testing process are listed here. While you can be sure that a program will work if your system matches ours, a comparable system configuration should also work. For example, even though we don't test on the Franklin Ace, Apple programs should work on this system. Any exception to the following hardware or software configurations will be listed in the chart above. Systems that do not have a specific printer listed were tested with Epson FX-80 printers when a printer option was available.

Adam w/80K RAM, Coleco SmartBASIC V1.0, disk enhanced by MMSG, Coleco disk drive, AdamDOS, and color monitor. **Apple IIe** in 40-column mode w/64K RAM, DOS 3.3, two disk drives, MPC parallel printer interface, monochrome and color monitor. Apple programs should also work on Apple IIc/II Plus. **Apple IIcs** w/1MB RAM, one 3.5-inch and one 5.25-inch disk drive, ProDOS 3.3, and Apple RGB monitor. **Atari 800XL** w/two disk drives, DOS II version 2.05, Atari 850 interface, and color monitor. Atari programs should also work on Atari 800 (w/48K), 1200XL, 65/130XE. Smaller programs should work on Atari 400 & 600XL. **Commodore 128** in C-64 mode with two 1571 disk drives, color monitor, and Micrografix parallel graphics interface. Programs should also work on Commodore 64/64C/128D. **IBM PC** w/640K RAM, Disk BASIC D2.00, IBM Monochrome Display and Printer Adapter, monochrome monitor, IBM Color/Graphics Monitor Adapter, RGB monitor, AST Sixpack Plus, and IBM PC DOS 3.10. **IBM PCjr** w/128K RAM, one disk drive, IBM PC DOS 2.10, cartridge BASIC J1.00. **IBM PS/2 Model 30** w/640K RAM, one floppy and one hard-disk drive, RGB monitor, IBM PC DOS 3.30, and IBM PC BASIC A3.30. **Macintosh** w/512K RAM, two disk drives, Microsoft BASIC 2.1, and ImageWriter printer. Macintosh programs should also work on 128K Mac/Mac Plus/SE/II and under Microsoft BASIC 2.0. **Tandy Color Computer 2** w/64K RAM, Disk Extended Color BASIC 1.1, two disk drives, Botek-serial-to-parallel printer interface, color monitor. Programs should also work on Color Computer 1 (w/64K) and 3. **TI-99/4A** w/8K RAM, peripheral expansion system, disk drive, RS232 Interface Card, and TI-99/4 Impact Printer.

The following PC compatibles have been added to our testing list. IBM PC programs should also work on other PC compatibles with at least 128K.

Amstrad w/640K RAM, two disk drives, MS-DOS 3.20, Locomotive BASIC, RGB monitor. **Blue Chip** w/512K RAM, two disk drives, monochrome monitor, MS-DOS 3.20, GW-BASIC 3.20. **Commodore PC-10** w/640K RAM, two disk drives, monochrome monitor, MS-DOS 3.20, GW-BASIC 3.20.

Epson Equity I w/256K RAM, two disk drives, monochrome display adapter, monochrome monitor, MS-DOS 3.10, GW-BASIC 3.10. **Kaypro PC 10** w/640K RAM, two disk drives, RGB monitor, MS-DOS 2.11, GW-BASIC 2.02. **Leading Edge Model D** w/640K RAM, two disk drives, monochrome and RGB monitors, MS-DOS 3.10, GW-BASIC 3.11. **Panasonic FX-600** w/640K RAM, two disk drives MS-DOS 3.10, GW-BASIC 3.10, enhanced graphics adapter, RGB monitor. **Tandy 1000** w/256K RAM, two disk drives, MS-DOS 2.11 version 02.11.22, GW-BASIC 2.02 version 01.01.00, RGB monitor. **Tandy 1000 EX** w/256K RAM, two disk drives, MS-DOS 2.11 version 02.11.24, GW-BASIC 2.02 version 01.02.00, RGB monitor. **Tandy 1000 SX** w/384K RAM, two disk drives, MS-DOS 3.20 version 03.20.00, GW-BASIC 3.20 version 03.20.00, RGB monitor. **Vendex Turbo 888-XT** w/640K RAM, two disk drives, MS-DOS 3.20, RGB monitor. **Zenith Z148PC** w/640K RAM, two disk drives, MS-DOS 3.10, GW-BASIC 3.20, RGB monitor.

(212) 505-3703

A HELP LINE FOR PROGRAM PROBLEMS

Call our Program Status Line any time of the day or night to receive an up-to-date summary of our latest programs, the machines on which they run, and any corrections or enhancements to the programs.

RESOURCES FOR IIcs PROGRAMMERS

There are several new books for Apple IIcs programmers published by Addison-Wesley. Included in the new IIcs line-up are the *Technical Introduction to the Apple IIcs* and the *Apple IIcs Firmware Reference*. The books provide a comprehensive reference to the Apple IIcs's internal programs and subroutines. Other IIcs titles include a hardware reference, ProDOS 16 reference, and Gary B. Little's *Exploring the Apple IIcs*. Prices range from \$10-\$30.

TIPS FOR C 64/128 USERS

The Beagle Bros. have a new book, *The Big Tip Book for the Commodore 64/64C/128*, which offers useful shortcuts and tips for dealing with BASIC, machine language, hardware, and communications on the Commodore. The book is easy to read, with funny illustrations and examples to help explain programming tricks for both beginning and advanced Commodore users. *The Big Tip Book* is \$16.95 from Bantam Books.

SOLUTION TO LAST MONTH'S PUZZLE

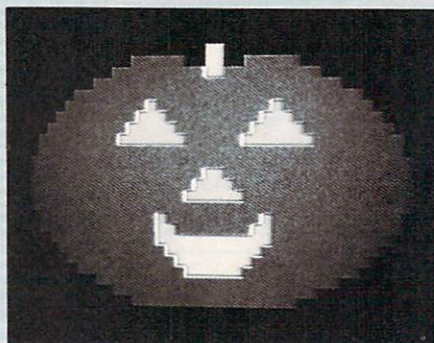
T	E	S	T	S	S	A	F	E	M	A	T	H
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N	A	R	R	A	T	E	S	C	R	I	P	S
M	E	R	R	Y	G	O	R	O	U	N	D	
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A	R	I	B	E	L	S	A	N	E	V	E	R
O	A	R	S	S	A	S	S	G	R	E	T	A

HALLOWEEN PROGRAM

```
2030 PUT (P(3),93),SACK:RETURN
2040 PUT (P(4),120),PUMP:RETURN
3000 DATA 105,67,160,67,165,94,160,121,90,148,145,148
4000 DATA 5,35,150,1,150,1,308,16,20,48,115,48,160,48
4010 DATA 260,48,20,75,65,75,100,75,180,75,215,75,260
4020 DATA 75,20,102,115,102,160,102,260,102,20,129,65
4030 DATA 129,100,129,180,129,215,129,260,129
5000 DATA 115,156,62,216,115,156,62,216
6000 DATA 3,5,4,1,4,5,3,6,5,6,2,7,6,7,2,8,6,8,1,9,7,9
6010 DATA 2,12,3,1,4,1,4,1,4,3,3,3,7,3,2,4,8,4,1,5,2,5
6020 DATA 8,5,9,5,5,4,5,6,1,6,9,6,1,7,3,7,7,7,9,7,2,8
6030 DATA 8,8,3,9,7,9,1,8,1,1,13,1,2,2,12,2,3,3,11,3
6040 DATA 3,4,11,4,3,5,11,5,3,6,11,6,3,7,11,7,4,8,10,8
6050 DATA 1,16,3,1,7,1,3,2,3,2,5,2,5,2,7,2,7,2,1,3,9,3
6060 DATA 3,4,7,4,3,5,7,5,3,6,7,6,1,4,1,5,9,4,9,5,3,7
6070 DATA 3,9,4,7,4,9,6,6,6,9,7,7,9,2,9,2,9,8,9,8,9
6080 DATA 3,9,2,1,7,1,3,2,6,2,3,3,6,3,2,4,7,4,1,5,8,5
6090 DATA 1,6,8,6,1,7,8,7,2,8,7,8,3,9,6,9,2,8,1,4,1,9
6100 DATA 2,4,2,9,4,4,4,9,5,4,5,5,7,5,9,6,4,6,9,8,4
6110 DATA 8,9,9,4,9,9
6120 DATA "R3U1R2D6L23U1R1U1R1U1R2U1R4D1R1BM8,8;"
6130 DATA "L3U1L2D6R23U1L1U1L1U1L2U1L4D1L1BM7,9;"
```

JACK-O'-LANTERN

BY JOEY LATIMER



Jack-O'-Lantern was first presented in our October 1983 issue and was such a hit then that we decided to rerun the colorful pumpkin graphic program for those of you who missed it the first time. So, throw out your Swiss army knife; this Halloween you can carve

a pumpkin with a cursor! That's right: just type this program into your computer, run it, and your computer will create a Jack-O'-Lantern right on your screen! Put the monitor in your front window and sit back as your pumpkin becomes the talk of the town.

Adam & Apple II series/Jack-O'-Lantern

```
10 HOME
20 GR:COLOR= 9
30 HLINE 11,16 AT 2
40 FOR Z = 2 TO 39
50 READ X,Y
60 HLINE X,Y AT Z
70 NEXT Z
80 COLOR= 13
90 FOR Z = 9 TO 13
100 READ X,Y
110 HLINE X,Y AT Z
120 HLINE X+11,Y+11 AT Z
130 NEXT Z
140 FOR Z = 19 TO 22
150 READ X,Y
160 HLINE X,Y AT Z
```

```
170 NEXT Z
180 FOR Z = 27 TO 30
190 READ X,Y
200 HLINE X,Y AT Z
210 NEXT Z
220 COLOR= 8
230 FOR Z = 0 TO 4
240 HLINE 18,19 AT Z
250 NEXT Z
260 GOTO 260
1000 DATA 21,26,9,28,8,29,7,30,6,31,5,32,4,33
1010 DATA 4,33,3,34,2,35,2,35,1,36,1,36,0,37
1020 DATA 0,37,0,37,0,37,0,37,0,37,0,37,0,37
1030 DATA 1,36,1,36,2,35,2,35,2,35,3,34,3,34
1040 DATA 4,33,5,32,6,31,7,30,8,29,9,28,10,27
1050 DATA 12,25,14,23,15,22,13,13,12,14,11,15
1060 DATA 10,16,9,17,18,19,17,20,16,21,15,22
1070 DATA 12,25,13,24,14,23,15,22
```

Atari 800/XL/XE/Jack-O'-Lantern

```
10 PRINT CHR$(125)
20 GRAPHICS 3+16
30 COLOR 1
40 FOR R=1 TO 24
50 READ X,Y,X1,Y1
60 PLOT X,Y
70 DRAWTO X1,Y1
80 NEXT R
90 COLOR 2
100 FOR R=1 TO 14
110 READ X,Y
120 PLOT X,Y
130 NEXT R
140 FOR R=1 TO 13
150 READ X,Y,X1,Y1
160 PLOT X,Y
170 DRAWTO X1,Y1
180 NEXT R
190 GOTO 190
1000 DATA 11,1,16,1,23,1,28,1,9,2,30,2,7,3,32,3,5,4
1010 DATA 34,4,4,5,35,5,3,6,36,6,2,7,37,7,38,8,1,8,1,9
1020 DATA 38,9,39,10,0,10,0,11,39,11,39,12,0,12,0,13
1030 DATA 39,13,39,14,0,14,1,15,38,15,38,16,1,16,2,17
1040 DATA 37,17,36,18,3,18,4,19,35,19,34,20,5,20,7,21
1050 DATA 32,21,30,22,9,22,11,23,28,23,19,0,20,0,19,1
1060 DATA 20,1,19,2,20,2,13,5,26,5,14,15,25,15,14,16
1070 DATA 15,16,24,16,25,16,12,6,14,6,25,6,27,6,11,7
1080 DATA 15,7,24,7,28,7,10,8,16,8,23,8,29,8,19,11,20
1090 DATA 11,18,12,21,12,17,13,22,13,14,17,25,17,15
1100 DATA 18,24,18,16,19,23,19,17,20,22,20
```

Commodore 64 & 128 (C64 mode)/Jack-O'-Lantern

```
10 PRINT CHR$(147)
20 POKE 53281,0:POKE 53280,0
30 FOR Z=1 TO 24
40 READ X,Y
50 FOR P=X TO Y
60 POKE P,160
70 POKE P+54272,8
80 NEXT P
90 NEXT Z
100 FOR Z=1 TO 15
110 READ X,Y
120 FOR P=X TO Y
130 POKE P,160
140 POKE P+54272,7
150 NEXT P
160 NEXT Z
170 FOR Z=1 TO 2
180 READ X,Y
190 FOR P=X TO Y
200 POKE P,160
```

CROSSWORD PUZZLER

BY STEVE C.M. CHEN AND KAREN KANE

This is the fourth in a series of crossword puzzles. This month, clues and data for a Halloween puzzle are presented along with the solution to last month's puzzle (page 84). The solution to the Halloween Crossword Puzzle will appear in next month's issue along with data for a new puzzle.

In order to solve or print out the puzzle, you must have the master puzzle program. The Commodore 64/128, IBM

PC and compatibles, and Tandy Color Computer versions of the program were presented in the July issue, and the Adam, Apple, Atari, and Macintosh versions appeared in August. Copies of the July and August issues are available for \$3.95 each from Crossword Puzzler, c/o FAMILY & HOME-OFFICE COMPUTING, 730 Broadway, New York, NY 10003. Please indicate your specific brand and model of computer.

HALLOWEEN PUZZLE DATA

A DAEA, JAEB, KBEC, FCGC, 1093
 B KCFD, GDKD, LDCE, EFLF, 1127
 C MFNF, AGGG, IGMG, NGOG, 1164
 D AHBH, EHFH, GHFH, IHJH, 1136
 E KHHH, OHAI, BICI, GIII, 1155
 F OIBJ, CJDJ, KJMK, DLEL, 1165
 G ILJL, EMIM, JKMK, ENKN, 1198
 H FOKO, LOZZ, ZZZZ, ZZZZ, 6358

HALLOWEEN PUZZLE CLUES

Across

- 1A German article
 1F Indian tribe
 1K Each in his place, by right, not _____, shall rule his heritage . . .
 —Rudyard Kipling
 2A Leave out
 2F Giggle
 2L Symbol of worship
 3A Western European alliance
 3H What family and homely have in common
 3L Points of convergence
 4A Color of a clear sky
 4H Post Office Box, abbr.
 4M Ghost sound
 5A Symbol for titanium
 5D What kids say on Halloween
 6A Inner, comb. form
 6F Cereal fruit
 7B Dirt
 7J Diphtheria, tetanus, pertussis vaccine, abbr.
 8C Exists
 8L A conjunction
 9D Finish
 9J Idols
 10E Safe
 10L What Kong is
 11A Halloween event
 11N An interjection
 12A Likely
 12F Cereal grass
 12K Mr. Agnew
 13A To raise upright

- 13F Norfolk State University, abbr.
 13L Irritates
 14A One of the Great Lakes
 14F To hold an office
 14L Covered with gold
 15A Nifty
 15G Not living
 15M Socioeconomic status, abbr.

Down

- 1A Give
 1B A kind of Grace
 1C Latin for place
 1F First and last initials of author whose middle name is Wadsworth
 1G A digraph
 1H Jack-o'-lantern
 1I Eskimo homes
 1L Mountain range in N. Morocco on the Mediterranean
 1M Sun-dried clay brick
 1N Ingredient in Halloween candy
 1O George and T.S.
 2D Hare's opponent
 2J A mix of two species
 4E Comparative suffix
 5F Anger
 5G Western state, abbr.
 5K Dynamite
 6C Prefix with -cycle or -angle
 7L He said, "That's all folks!"
 8M 10L across, to Pierre
 9E See 13F across
 9F Evil spirits
 9H Burst
 9J Feminine pronoun
 9N Piece of diving equipment
 10A Frightened
 10G Stopped
 10I Dorm leader, abbr.
 10O Kin to goblins
 11B Plural of opus
 11C Spot
 11K Author Eliot
 12M Tennessee state flower
 13D Crimson
 14I One of the 13 orig. states
 14J This Mr. talked like a man

THE DUELIN' COMPUTER

BY JOEY LATIMER



The song, *Duelin' Banjos*, has been performed and recorded many times over the years. Some notable versions include the upbeat arrangement ending the Dillard's *Back Porch* album, the slow-building duet featuring the young boy in the movie *Deliverance*, and

let's not forget Martin Mull's *Duelin' Tubas*. Well, now you can add *The Duelin' Computer* to the list. That's right! We've taken the popular bluegrass tune and arranged it for several popular computers.

To hear your computer trade "licks" with itself, just type the *The Duelin' Computer* program into your computer using BASIC, SAVE it, then RUN it. If you enter the program correctly, the screen will clear, the title will print on the screen, and your computer's sound chip will think it's from Kentucky.

Atari 800/XL/XE/The Duelin' Computer

```

10 DIM V1(132,2),V2(158,2),V3(63,2)
20 POKE 710,196:POKE 752,1
30 FOR X=1 TO 132:READ A,B:V1(X,1)=A:V1(X,2)=B:NEXT X
40 FOR X=1 TO 158:READ A,B:V2(X,1)=A:V2(X,2)=B:NEXT X
50 FOR X=1 TO 63:READ A,B:V3(X,1)=A:V3(X,2)=B:NEXT X
60 PRINT CHR$(125)
70 POSITION 8,8:PRINT "* THE DUELIN' COMPUTER *"
80 P1=1:P2=1:P3=1:T1=0:T2=0:T3=0
90 SOUND 1,V1(P1,1),10,8
100 SOUND 2,V2(P2,1),10,8:SOUND 3,V3(P3,1),10,6
110 FOR DE=1 TO 20:NEXT DE
120 T1=T1+1
130 IF T1=V1(P1,2) THEN T1=0:P1=P1+1:SOUND 1,0,0,0
140 T2=T2+1
150 IF T2=V2(P2,2) THEN T2=0:P2=P2+1:SOUND 2,0,0,0
160 T3=T3+1
170 IF T3=V3(P3,2) THEN T3=0:P3=P3+1:SOUND 3,0,0,0
180 IF P1<133 THEN 90
190 GOTO 80
999 REM --BASS--
1000 DATA 0,16,162,1,162,1,162,2,144,2,128,2,121,2
1010 DATA 108,2,121,2,128,2,0,16,162,1,162,1,162,2,144
1020 DATA 2,128,2,121,2,108,2,121,2,128,2,0,16,121,1
1030 DATA 121,1,121,2,108,2,96,2,91,2,81,2,91,2,96,2
1040 DATA 0,16,162,1,162,1,162,2,144,2,128,2,121,2
1050 DATA 108,2,121,2,128,2,0,16,108,1,108,1,108,2
1060 DATA 96,2,85,2,81,2,72,2,81,2,85,2,0,8,128,1
1070 DATA 128,1,128,2,121,2,128,2,0,8,128,1,128,1
1080 DATA 128,2,121,2,128,2,0,16,128,1,121,1,108,2
1090 DATA 128,2,121,2,144,2,128,2,162,2,144,2,0,16
1100 DATA 128,1,121,1,108,2,128,2,121,2,144,2,128,2
1110 DATA 162,2,144,4,162,2,162,2,144,2,128,2,162,2
1120 DATA 128,2,144,2,108,2,162,2,162,2,144,2,128,2
1130 DATA 162,4,144,2,128,2,121,4,162,4,121,4,162,4
1140 DATA 162,4,128,4,162,4,128,4,108,4,144,4,108,4
1150 DATA 193,2,173,2,162,4,128,4,162,4,144,2,128,2
1160 DATA 121,4,162,4,121,4,162,4,162,4,128,4,162,4
1170 DATA 128,4,108,4,144,4,108,4,193,2,173,2,162,4
1180 DATA 128,4,162,4,162,2
1999 REM --MELODY--
2000 DATA 81,1,81,1,81,2,72,2,64,2,60,2,53,2,60,2,64,2
2010 DATA 0,16,81,1,81,1,81,2,72,2,64,2,60,2,53,2,60,2

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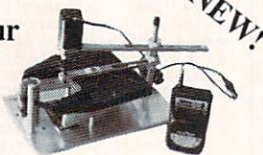
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